





United States  
Department of  
Agriculture



**National Agricultural Library**

R  
A  
L



**LIBRARY**

Bibliography of Agriculture  
vol. 13 1949

765921



















UNITED STATES DEPARTMENT OF AGRICULTURE  
LIBRARY

3305

BIBLIOGRAPHY OF AGRICULTURE

Vol. 13

1949

CONTENTS

	Item	Item
Plant Science	1-1816 7557-9684 16296-17863	Agricultural Products: Processing, Distribution and Statistics
23590-25709	32725-35196 41473-43536	5197-6560 13464-15123
49485-51847	57510-59457 65600-67486	21239-22677 29682-31447 38965-40425
	73553-75620 81377-82724	46878-48389 55155-56479 63010-64482
		71191-72653 79000-80492 85643-86568
Soils and Fertilizers	1817-2307 9685-10256	Agricultural Economics and Rural Sociology
17864-18230	25710-26196 35197-35750	6561-7361 15124-16056
43537-44097	51848-52357 59458-59990	22678-23416 31448-32456 40426-41196
67487-67948	75621-76105 82725-83269	48390-49249 56480-57270 64483-65289
		72654-73354 80493-81201 86569-87053
Forestry	2308-2794 10257-10851	Food and Human Nutrition
18231-18784	26197-26678 35751-36249	7362-7432
44098-44578	52358-52718 59991-60520	16057-16137 23417-23497 32457-32532
67949-68486	76106-76677 83270-83615	41197-41304 49250-49334 47271-57352
		65290-65365 73355-73429 81202-81268
Animal Industry	2795-4173 10852-12249	87054-87084
18785-20245	26679-28189 36250-37611	Miscellaneous
44579-45893	52719-53924 60521-61735	7433-7556 16138-16295
68487-70018	76678-77924 83616-84663	23498-23589 32533-32724 41305-41472
		49335-49484 57353-57509 65366-65499
Entomology	4174-4862 12250-13075	73430-73552 81269-81376 87085-87200
20246-20900	28190-29283 37612-38556	United States Department of Agriculture Publications
45894-46513	53925-54785 61736-62631	
70019-70839	77925-78717 84664-85331	State Agricultural Experiment Station Publications
Agricultural Engineering	4863-5196	
13076-13463	20901-21238 29284-29681	State Agricultural Extension Service Publications
38557-38964	46514-46877 54786-55154	
62632-63009	70840-71190 78718-78999	
	85332-85642	

AUTHOR AND SUBJECT INDEXES

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.

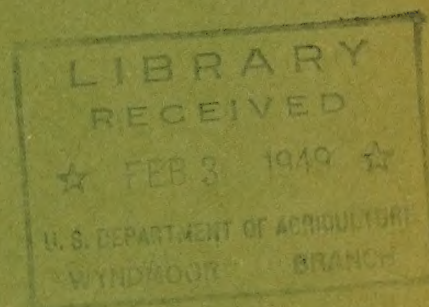




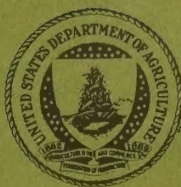


4716  
471  
Ref

# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 13 of the Bibliography of Agriculture will appear as number 12 of volume 13, the issue of December 1949.

United States Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications, is followed in this publication with the exception of the following: B.—Bulletin; C.—Circular; J.—Journal; P.—Publication; Q.—Quarterly; U.—University; U. S. D. A.—United States Department of Agriculture; Ybk.—Yearbook; Z.—Zeitschrift.

Items marked with an asterisk (\*) are ordinarily available in microfilm or photoprint only. Items marked with two asterisks (\*\*) have not been verified.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library at the following prices:

**MICROFILMS:**

Periodical Articles.—A flat charge of 50 cents for any single article, from any single volume of a periodical.

Books and Serial Publications.—50 cents for each 50 pages or fraction thereof.

**PHOTOPRINTS:**

50 cents for each 5 pages of text or fraction thereof.



## UNITED STATES DEPARTMENT OF AGRICULTURE

## LIBRARY

## BIBLIOGRAPHY OF AGRICULTURE

Vol. 13

January 1949  
Items 1-7556

No. 1

## CONTENTS

	Item		Item		Item
Plant Science	1-1816	Materials for Soil Improvement		Veterinary Medicine	2884
Systematic and Geographic			2234	Miscellaneous	2983
Botany	86	Primary Materials	2242	Cattle	3009
Spermatophytes	99	Secondary and Minor Element		Breeds and Breeding	3009
Pteridophytes	178	Materials	2260	Feeds and Feeding	3148
Bryophytes	183	Mixed Fertilizers and Fertilizer		Veterinary Medicine	3196
Algae	184	Technology	2264	Miscellaneous	3284
Fungi and Lichens	194	Fertilizer Statistics	2266	Dogs and Cats	3363
Pathology	217	Mineral Soil Amendments	2284	Breeds and Breeding	3363
Fungus Diseases	298	Manures and Composts	2285	Veterinary Medicine	3373
Bacterial Diseases	411	Forestry	2308-2794	Miscellaneous	3419
Virus Diseases	424	Economics and Policy	2308	Fur Animals - Pen Raised	3432
Nematodes	457	Legislation	2353	Breeds and Breeding	3432
Ecology	466	Description and Resources	2356	Feeds and Feeding	3442
Morphology, Anatomy, and		Individual Genera	2376	Veterinary Medicine	3451
Cytology	483	Forest Administration and		Miscellaneous	3459
Genetics	536	Management	2399	Horses and Mules	3477
Physiology	579	Farm Woodlands	2431	Breeds and Breeding	3477
Biochemistry	763	Mensuration	2441	Veterinary Medicine	3503
Field Crops	802	Forest Protection and Damage	2453	Miscellaneous	3552
Cereals	832	Fire	2461	Laboratory Animals, Small	3570
Fiber Crops	915	Meteorological Injuries	2470	Breeds and Breeding	3570
Forage and Grasses	939	Silviculture	2472	Feeds and Feeding	3572
Oil Crops	1029	Lumbering	2533	Veterinary Medicine	3573
Sugar Crops	1045	Equipment	2534	Miscellaneous	3577
Tobacco	1061	Logging	2542	Poultry	3578
Horticultural Crops	1070	Lumber Industry	2557	Breeds and Breeding	3578
Fruits	1122	Sawmills	2587	Feeds and Feeding	3655
Citrus and Subtropical	1172	Wood Technology	2594	Veterinary Medicine	3735
Deciduous	1202	Preservative Treatment	2604	Miscellaneous	3854
Small	1235	Properties and Structures	2613	Rabbits	3975
Nuts	1287	Seasoning, Conditioning, and		Breeds and Breeding	3975
Shade Trees and Ornamental		Finishing	2629	Feeds and Feeding	3997
Plants	1297	Forest Products	2638	Veterinary Medicine	3999
Vegetables	1604	Building Construction	2664	Miscellaneous	4008
Weeds and Poisonous Plants	1700	Charcoal	2674	Sheep and Goats	4022
Miscellaneous	1747	Containers	2679	Breeds and Breeding	4022
Soils and Fertilizers	1817-2307	Cork	2683	Feeds and Feeding	4051
Soil Science	1817	Furniture	2684	Veterinary Medicine	4061
Soil Physics	1824	Naval Stores	2685	Miscellaneous	4094
Soil Chemistry and Mineralogy		Plastics	2690	Swine	4123
	1839	Pulp and Paper	2691	Breeds and Breeding	4123
Soil Biology	1874	Tanning Material	2719	Feeds and Feeding	4131
Soil-Plant-Animal Relation-		Veneers, Plywood, and Adhesives		Veterinary Medicine	4149
ships	1883		2722	Miscellaneous	4162
Soil Genesis, Formation,		Wood as Fuel	2738	Entomology	4174-4862
Classification, and Mapping	1891	Miscellaneous	2741	General - Economic	4201
Soil Management	1902	Education	2776	Apiculture and Apis Mellifera	4326
Soil Fertility	1919	Forest Engineering	2787	Colony Management	4382
Tilth and Tillage	2068	Forest Influences	2788	Arachnida, etc	4405
Drainage, Irrigation, Water		Wildlife	2792	Coleoptera	4465
Supply, etc.	2085	Animal Industry	2795-4173	Diptera	4545
Erosion and Control	2175	Breeds and Breeding	2795	Culicidae	4606
Sanitation	2226	Feeds and Feeding	2812	Hemiptera	4644

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Hymenoptera	4693	Prices, etc.	5320	Inflation	6626
Lepidoptera	4729	Processing and Storage	5357	Insurance	6628
Orthoptera	4808	Statistics	5399	Taxation	6689
Sericulture and the Silkworm	4826	Beverages and Condiments	5413	Agricultural Labor and Wages	6703
Smaller Orders	4833	Dairy Products	5492	Agriculture - Situation, Policies	
Agricultural Engineering	4863-5196	Analysis and Composition	5546	and Programs	6734
General and Miscellaneous	4863	Consumption, etc.	5591	Subsidies	6849
Machines and Equipment	4889	Distribution, etc.	5601	Cost and Standard of Living	6852
Animal Husbandry	4959	Grading, etc.	5620	Farm Management and Land	
Cultivation and Tillage	4970	Packing and Packaging	5649	Economics	6855
Fertilizer and Seed Distributors		Prices, etc.	5655	Bookkeeping and Records	6959
	4973	Processing and Storage	5663	Cost and Returns	6967
Harvesting	4977	Statistics	5739	Land Settlement and Colonization	
Land Clearing	4993	Feed and Forage Crops	5744		7003
Processing Equipment Used on		Fibers and Textiles	5777	Land Tenure	7015
the Farm	4995	Fruits, Vegetables, and Nuts	5881	Land Utilization	7077
Repair, Maintenance, and Con-		Analysis and Composition	5914	Land Values, etc.	7087
struction	5020	Consumption, etc.	5926	Population	7096
Spraying and Dusting	5025	Distribution, etc.	5934	Rural Social Organization	7101
Vehicles	5034	Grading, etc.	5965	Human Ecology	7114
Structures and Rural Housing	5054	Packing and Packaging	5984	Institutions	7127
Animal Shelters and Service		Prices, etc.	5993	Leadership	7235
Buildings	5062	Processing and Storage	5998	Rural Organizations and	
Farmhouses and Farmsteads		Grain and Grain Products	6055	Movements	7240
	5103	Honey and Beeswax	6140	Rural Social Psychology	7317
Greenhouses and Plant Service		Livestock and Livestock Products		Trade, Foreign and International	
Buildings	5115		6144		7318
Materials and Methods	5123	Analysis and Composition	6207	Food and Human Nutrition	7362-
Storage Structures	5125	Consumption, etc.	6216		7432
Walls and Fences	5137	Distribution, etc.	6217	Food Habits	7401
Utilities	5141	Grading, etc.	6247	Nutritive and Vitamin Content	7408
Electricity and Electrification		Packing and Packaging	6257	Miscellaneous	7433-7556
	5141	Prices, etc.	6260	History and Biography	7479
Heating, Lighting, and Radiation		Processing and Storage	6267	Home Management	7511
	5166	Statistics	6289	International Relations	7518
Power Plants, Motors and		Oils and Oilseeds	6292	Meteorology	7522
Engines	5172	Poultry and Poultry Products	6381	Research	7530
Sewage and Waste Disposal	5179	Rubber and Rubber Substitutes		Statistics	7550
Telephones	5185		6464	U. S. D. A. Publications	p. 157
Water Supply	5186	Seeds	6473		
Agricultural Products: Processing,		Sugar and Sirups	6490	State Agr. Expt. Sta. Publications	
Distribution, and Statistics	5197-	Tobacco	6530		p. 160
	6560	Miscellaneous Products	6546		
Analysis and Composition	5234	Agricultural Economics and Rural		State Agr. Ext. Serv. Publications	
Consumption, etc.	5268	Sociology	6561-7361		p. 162
Distribution, etc.	5273	Agricultural Finance	6578		
Grading, etc.	5297	Credit	6586	AUTHOR INDEX	p. 167
Packing and Packaging	5308	Income	6623		

Published with the Approval of the Director of the Bureau of the Budget.



## PLANT SCIENCE

## GENERAL

- 1 ABBOTT, H. T. The John A. Finch Memorial Arboretum. *Arboretum B.* 11(3): 19. Fall 1948. 451 Ar1
- 2 AMELINCKX, F. Observation on the arboretum of the former "Société Anonyme Horticole de Calmpthout" now "Tuinbouw Flora" in liquidation. (In Flemish.) *Cult. en Handel* 14: 492-493. Aug. 1948. 80 C892
- 3 ANGELY, J. Dictionary of technical botanical terms. (In Portuguese.) *Rev. da Flora Med.* 15: 139-166, 179-216. (Cont.) Apr.-May 1948. 71.8 R32
- 4 AUBERT DE LA RUE, E. Quelques aspects de vegetation des Andes de l'Equateur. *Soc. Natl. d'Acclim. et de Protect. de la Nature B.* 95: 57-66. Ref. Apr./June 1948. 410.9 P21
- 5 BALDWIN, S. G. Photographing big trees in the Smokies. *Biol. Photog. Assoc. J.* 17(1): 3-9. Sept. 1948. 332.9 B52
- 6 BARNES, V. (HIJO). Informe de la expedición científica a Venezuela. *Almanaque Agr. de Puerto Rico* 1947: 205-254. 8 AL62  
Includes vegetation.
- 7 BATES, M. Climate and vegetation in the Vflavicencio region of eastern Colombia. *Geog. Rev.* 38: 555-574. Oct. 1948. 500 Am35G
- 8 BENEDIX, E. H. Wege und irwege der neuen pilzliteratur. *Natur u. Nahr. Ausg. B* 2: 57-59. (To be cont.) June 1948. 80 N218B
- 9 BENIGNI, R. Investigation on the presence of antibiotic substances in higher plants. (In Italian.) *Fitoterapia* 19(3): 1-2. July/Sept. 1948. 450 F55  
*Thymus vulgaris*, *Vaccinium myrtillus*, and *Arctostaphylos uva-ursi*.
- 10 BERN. BOTANISCHE INSTITUT. Bericht, 1947. Bern, 1948. 8 p. 451 B455
- 11 BOSE, S. R. A plea for a survey of Indian fungi in search of antibiotics. *Sci. & Cult.* 14: 38. July 1948. 475 Sci24
- 12 BROOKLYN BOTANIC GARDEN. Annual report, 1947/48. Brooklyn, 1948. 32 p. 451 B79A
- 13 BUCHWALD, N. F. Uniform nomenclature for plant diseases and pests. (In Danish.) *Nord. Jordbrugsforsk.* 1948: 560-564. 11 N752  
Discussion, p. 564-565.
- 14 CAMPOVASCO, J. Geografía de los grandes grupos de cultivos españoles. *Surco [Madrid]* 7(76): 13-15. June 1948. 15 Su7
- 15 CANIZARES ZAYAS, J. Híbridos vegetativos. *Cuba. Min. de Agr. Rev.* (ser. 6) 31(1): 49-50. Jan./June 1948. 8 Ag88Re
- 16 CARLSON, M. C. Unusual partners. *Amer. Forests* 54: 434. Oct. 1948. 99.8 F762  
A maple and hemlock grown together.
- 17 CARPENTIER, A. Note sur les microspores de quelques ptéridospermées. *Ann. des Sci. Nat., Bot. et Biol. Vég.* (ser. 11) 8: 299-304. Ref. 1947. 450 An75
- 18 CATALINA, L. Árboles históricos. *Cult. Mod.* 31: 298. Aug. 1948. 15 C89
- 19 CLAUS, E. P. A preliminary study of the hayfever plants of western Pennsylvania. *Pa. Acad. Sci. Proc.* 22: 15-18. 1948. 500 P383
- 20 COLLIER, H. O. J. Antibiotics today. *Research* 1: 501-508. Ref. Aug. 1948. 472 R31
- 21 COPENHAGEN UNIVERSITY. Index seminum in Horto Universitatis Hauniensis a. 1947 collectorum. Copenhagen, 1948. 29 p. 61.5 C79
- 22 DALLIMORE, W. A very fine specimen of Sitka spruce (*Picea sitchensis*). *Q. J. Forestry* 42: 162-163. July 1948. 99.8 Q2
- 23 DANSEREAU, P., and RAYMOND, M. Botanical excursions in Quebec Province: Montreal, Quebec, Gaspé Peninsula. Montreal. U. Serv. de Biogéog. B. 2, 20 p. Feb. 1948. 451 M7642
- 24 DILWORTH, J. R. The Peavy Arboretum. *Parks & Recreation* 31: 515-521. Sept. 1948. 98.8 P23
- 25 DUBOIS, G. Pollen analysis of post glacial peats and deposits in France for the period 1939-1946. *Vegetatio* 1: 43-50. Ref. July 1, 1948. 450 V52
- 26 EYSTER, W. H. Botany for the gardener. 11-12. *Organic Gard.* 13(4): 22-25; (5): 36-38. Oct.-Nov. 1948. 56.8 Or3
- 27 FASSETT, N. C. The proposed changes in Article 58, International Rules of Botanical Nomenclature. *Rhodora* 50: 249-252. Oct. 1948. 450 R34
- 28 FERNALD, M. L., and SCHUBERT, B. G. Studies of American types in British herbaria. *Rhodora* 50: 217-233. (Cont.) Sept. 1948. 450 R34
- 29 FRAILE, A., and TORROME, A. Tinción del nucleo de las células de levadura. *Euclides* 8: 169-171. Apr. 1948. 475 Eu2
- 30 GARDNER, P. H. B., and GARDNER, R. C. B. Some notable trees in Hampshire. 2. Conifers. *Q. J. Forestry* 42: 142-150. July 1948. 99.8 Q2
- 31 GAUSSEN. L'utilisation des cartes de la végétation pour la restauration de la région landaise. *Acad. d'Agr. de France. Compt. Rend.* 34: 702-704. June 2/9, 1948. 14 P215Bc
- 32 GROSSER, A., and FRIEDRICH, W. Eine testmethode zur bestimmung von pilzhemmstoffen. *Z. f. Naturf.* 2b: 425-433. Nov./Dec. 1947. 474 Z3
- 33 HÄNNI, H., and SCHNEIDER, H. Sommer-tagung der Pflanzenbaukommission des Schweizerischen Landwirtschaftlichen Vereins in Lausanne. *Grüne* 76: 867-871. Aug. 1948. 17 Sch9
- 34 HARDY, E. Man's debt to the botanists. *Frontiers* 13: 15, 26-27. Oct. 1948. 410 F92
- 35 HAWKES, A. D. The cannon-ball tree [*Couroupita guianensis*]. *Organic Gard.* 13(5): 18-19. Nov. 1948. 56.8 Or3
- 36 HENNIG, B. Pilzwirkstoffe—vom penicillin zum clitocybin. *Natur u. Nahr.* 2(11/12): 9-11. June 1948. 80 N218
- 37 HOFFMANN, A. Wie kamen die pflanzen zu ihren namen? *Thür. Gartenbau* 1947(12): 8-9. Sept. 15, 1947. 80 T42
- 38 INDORE. INSTITUTE OF PLANT INDUSTRY. Progress report, 1946/47. Indore, Cent. India, 1948. 58 p. 107.5 In2P
- 39 IVERSON, W. P., and WAKSMAN, S. A. Use of streptomycin-dependent strains of bacteria for demonstrating the ability of microorganisms to produce streptomycin. *Science* 108: 382-383. Oct. 8, 1948. 470 Sci2
- 40 KECK, D. D. The place of Willis Linn Jepson in California botany. *Madroño* 9: 223-228. July 1948. 450 M26
- 41 KENDALL, M. W. On six species of Pagio-phyllum from the Jurassic of Yorkshire and southern England. *Ann. & Mag. Nat. Hist.* 1: 73-108. Sept. 17, 1948. 410 An77
- 42 KIRCHHEIMER, F. Die erdgeschichtliche vergangenheit der compositen. *Z. f. Naturf.* 3b: 125-129. Ref. Mar./Apr. 1948. 474 Z3
- 43 KIRCHHEIMER, F. Die laubgewächsflora Mitteleuropas vor dem erscheinen des menschen. *Z. f. Naturf.* 2b: 152-157. Mar./Apr. 1947. 474 Z3
- 44 KOVALEV, A. A. Investigation of antibiotics from *Aspergillus niger* molds. (In Russian.) *Veterinariia* 25(4): 40-41. Apr. 1948. 41.8 V6426
- 45 LANCASTER, M. The Morris Arboretum. *Arboretum B.* 11(3): 5-8. Fall 1948. 451 Ar1
- 46 LAUDE, H. H. Crop production and climate. *Kans. State Bd. Agr. Rpt.* 67(285): 298-302. June 1948. 2 K13Re
- 47 LOCQUIN, M., and PRÉVOT, A. R. Étude de quelques antibiotiques produits par les Myxomycètes. *Inst. Pasteur Ann.* 75(1): 8-13. July 1948. 448.3 An75
- 48 LOCQUIN, M., LOCQUIN, J., and PREVOT; A. R. Recherches sur l'acide unguinique (= acide polyporénique A), antibiotique produit par *Ungulina betulina*. *Rev. de Mycol. (n. s.)* 13: 3-9. Ref. May 1948. 450 An74
- 49 LOIS, R. J. Catalogo de la biblioteca del Laboratorio Central de Fitopatología e instrucciones para su uso. Argentina. *Inst. de Sanid. Veg. [P.] Ser. B* 3(12), 95 p. 1948. 464.9 Ar323P
- 50 LOMINSKI, I. R. W. A simple technique for the differential staining of lignified cell walls. *Nature [London]* 162: 415. Sept. 11, 1948. 472 N21
- 51 LYON, C. J. A factor method for the area of tomato leaves. *Plant Physiol.* 23: 634-635. Oct. 1948. 450 P692
- 52 MAAZ, P. Plauderei über pilze. *Natur u. Nahr.* 2(11/12): 4-6. June 1948. 80 N218
- 53 MCFARLAND, MRS. F. J. Trees of the Bible. *S. Dak. State Hort. Soc. Ann. Rpt.* (1947/48) 45: 39-42. 1948. 81 So86



54 MARQUARDT, H. Die herstellung von dauerpräparaten aus essigsäurekarmin-quetschpräparaten. Züchter 17/18: 447-449. Ref. Oct./Dec. 1947. 442.8 Z8

Experiments with *Bellevalia romana*.

55 MEHNERT, H. Vollbeschäftigung beruflicher pilzsammler. Natur u. Nahr. Ausg. B 2: 56-57. June 1948. 80 N218

56 MERTENS, MRS. N. J. Seeds of peace "plus tool kits." Natl. Gard. 19(9/10): 38. Sept./Oct. 1948. 90.32 N21

57 MIRANDA, F. Estudios sobre la vegetación de Mexico. V. Rasgos de la vegetación en la Cuenca del Rio de las Balsas. Soc. Mex. de Hist. Nat. Rev. 8: 95-114. Ref. Dec. 1947. 516 Sol5

58 MUNGER, T. T. The Wind River Arboretum from 1912 to 1947. Arboretum B. 11(3): 11-15. Fall 1948. 451 Ar1

59 O'MARA, J. G. Acetic acid methods for chromosome studies at prophase and metaphase in meristems. Stain Technol. 23: 201-204. Oct. 1948. 442.8 St1

60 PADY, S. M., KELLY, C. D., and POLUNIN, N. Arctic aerobiology. II. Preliminary report on fungi and bacteria isolated from the air in 1947. Nature [London] 162: 379-381. Sept. 4, 1948. 472 N21

61 PETERSCHMITT, R. Une analyse pollinique de tourbes du Marais de Lavours, à Béon (Ain). Paris. Acad. des Sci. Compt. Rend. 227: 562-564. Sept. 13, 1948. 505 P21

62 POPHAM, R. A., JOHNSON, T. J., and CHAN, A. P. Safranin and anilin blue with Delafield's hematoxylin for staining cell walls in shoot apices. Stain Technol. 23: 185-190. Oct. 1948. 442.8 St1

63 RICKETT, H. W., and CAMP, W. H. The nomenclature of hybrids. Torrey Bot. Club. B. 75: 496-501. Sept./Oct. 1948. 451 T63B

64 ROEKENS, F. Plant contest for school children. (In Flemish.) Cult. en Handel 14: 437. July 1948. 80 C892

65 ROGERS, D. P. Proposals for the amendment of Art. 64 of the International Rules of Botanical Nomenclature. Mycologia 40: 635-637. Sept./Oct. 1948. 450 M99

66 ROSÉN, S. Trees as decoration. (In Swedish.) Skogsägaren 23: 91-93. May 1947. 99.8 Sk55 Folklore.

67 SALISBURY, SIR E. London's Kew Gardens. Plants & Gard. (n. s.) 4: 132-134. Autumn 1948. 450 P694

68 SAMPAIO, J. Contributions to the history of botany in Portugal. II. Dr. Romualdo Frago, Dr. Gonçalo Sampaio, and Portuguese mycology. (A work of bio-bibliographical investigation.) (In Portuguese.) Broteria 17: 115-132. 1948. 410 B79C

69 SÃO PAULO. INSTITUTO DE BOTÂNICA. Annual report, by F. C. Hoehne. São Paulo, 1947. 136 p. 451 Sa62

70 SCHÖNFELD, G. Hölzer aus dem tertiär von Kolumbien. Senckenb. Naturf. Gesell. Abhandl. 475, 48 p. Ref. 1947. 410.9 Se52

71 SELLING, O. H. Studies in Hawaiian pollen statistics. II. The pollens of the Hawaiian phanerogams. Bernice P. Bishop Mus. Spec. P. 38, 430 p. Ref. 1947. 402.1 Se4

72 STEINMETZ, E. F. Codex vegetabilis ... botanical drugs and spices. Trade-dictionary in 5 languages (Latin, Dutch, German, English and French) Amsterdam, 1947. 1 v., unpagged. 452.14 St3

73 STEVENS, R. B., and TAYLOR, J. H. Photomicrography at your convenience. Science 108: 420-421. Oct. 15, 1948. 470 Sci2

74 TENG, S. C. Tree rings and climate in Kansu. Acad. Sinica. Inst. Bot. Bot. B. 2: 211-214. Ref. Sept. 1948. 451 Ac1

75 TEUSCHER, H. Botanical garden of Orotava, Teneriffe, Canary Island. Parks & Recreation 31: 514-515. Sept. 1948. 98.8 P23

76 TEUSCHER, H. What is an arboretum? Parks & Recreation 31: 512-513. Sept. 1948. 98.8 P23

77 THORNE, C. B., and PETERSON, W. H. Xanthomycins A and B, new antibiotics produced by a species of Streptomyces. J. Biol. Chem. 176(1): 413-428. Oct. 1948. 381 J824

78 THORSRUD, A., and REISAETER, O. Norske plantenavn [Norwegian plant names]. Oslo, Johansen & Nielsen, 1948. 276 p. 459.1 T39

79 TOKIN, B. P. TSelebnye veshchestva rastenii (fitontsidy) [Antibiotics in plants]. Moskva, "Pravda," 1948. 28 p. 448.2 T57

80 UNION OF SOUTH AFRICA. NATIONAL BOTANIC GARDENS. Report, 1947. Kirstenbosch, 1948. 20 p. 451 K63

81 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. List of plant material introduced; Project No. 111, Research and Marketing Act of 1946. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Spec. Inventory 4, 42 p. Aug. 2, 1948. 1.965 P2L693

82 VERDOORN, F. The modern arboretum; a center of regional, botanical and horticultural synthesis. Waltham, Mass., Chron. Bot., 1948. 15 p. 451.1 V582

83 WAIBEL, L. Vegetation and land use in the Planalto Central of Brazil. Geog. Rev. 38: 529-554. Oct. 1948. 500 Am35G

84 WHITE, J. W. The mysterious ombú. Nature Mag. 41: 412-414. Oct. 1948. 409.6 N214 Phytolacca.

85 ZANDSTRA, E., ed. Het Princehof [Friesland]. Amsterdam, Hollandsche Uitgevershuis, 1948. 260 p. 409 Z12

Includes plant life by D. Dijkstra, p. 89-129.

## SYSTEMATIC AND GEOGRAPHIC BOTANY

### General

86 BROCKMAN, C. F. Flora of Mount Rainier National Park. Washington, 1947. 170 p. 455.91 B78

87 CHATTERJEE, D. New plants from India and Burma. Kew B. 1948: 57-65. 451 K51B

88 CURTIS, W. M., and SOMERVILLE, J. Boomer Marsh—a preliminary botanical and historical survey. Roy. Soc. Tasmania, Papers and Proc. 1947: 151-157. Ref. 514 H65

89 DAVIES, W. C. Some salient features of the New Zealand native flora. Nelson, Stiles, 1947. 16 p. (B. Roy. New Zeal. Inst. Hort.) 460.38 D28 Banks lecture, 1947.

90 HEALY, A. J. Contributions to a knowledge of the naturalized flora of New Zealand. No. 2. Roy. Soc. New Zeal. Trans. & Proc. 77: 172-185. Ref. Apr. 1948. 514 W46

91 KUMMER, G. Die flora des Kantons Schaffhausen. Naturf. Gesell. Schaffhausen. Mitt. (1946) 21: 75-194. 1947. 508 Sch1

92 MAGUIRE, B., and others. Plant explorations in Guiana in 1944, chiefly to the Tafelberg and the Kaiteur Plateau. V. Torrey Bot. Club. B. 75: 523-580. Sept./Oct. 1948. 451 T63B

93 MOLDENKE, H. N. A list of plants observed during the Branchville Nature Conferences, 1935-1948. n. p., 1948. 14 p. 455.33 M73Li

94 PORTSMOUTH, O. H. D. The Batterbee marsh meadow: a study of its flora. Blundell's School Sci. Soc. Mag. 2: 11-20. 1947. 410 B62

95 RIVAS GODAY, S. La geografia botánica en España, durante los años 1939-1946. Vegetatio 1: 67-73. Ref. July 1, 1948. 450 V52

96 SCHNELL, R. Note sur la flore montagnarde de l'ouest africain. Paris. Acad. des Sci. Compt. Rend. 227: 566-568. Sept. 13, 1948. 505 P21

97 TURRILL, W. B. A new kind of key for plant determination. Kew B. 1948: 45-46. 451 K51B

98 WHITE, L. W. A new liquid plastic for preserving agricultural specimens. Better Farming Methods 20(10): 18-19. Oct. 1948. 58.8 B46 Chiefly plant material.

### Spermatophytes

99 AKERS, J. A key to some of the Peruvian genera. Cactus & Succulent J. 20: 128-131. Sept. 1948. 451 C11

100 BAILY, A. L., JR. Notes on cone-bearing trees. Plants & Gard. (n. s.) 4: 135-143. Autumn 1948. 450 P694

101 BENITO CEBRIAN, N. DE. Brezales y brezos. Spain. Inst. Forest. de Invest. y Exper. B. 19(39), 67 p. 1948. 99.9 Sp1 German and English summaries. Erica and Calluna.

102 BLAKE, S. F. Pseudo-elephantopus spicatus, a weed of potential importance in Florida. Rhodora 50: 280-283. Nov. 1948. 450 R34



- 103 BOR, N. L. A new species of *Deyeuxia* [D. *parsona*] from Persia. Kew B. 1948: 42. 451 K51B
- 104 BOR, N. L. New species of *Poa* from India, Burma and Tibet. Kew B. 1948: 138-144. 451 K51B
- 105 BOR, N. L., and RAIZADA, M. B. Some beautiful Indian climbers and shrubs. XXVIII. Bombay Nat. Hist. Soc. J. 47: 401-408. Apr. 1948. 513 B63
- 106 BRENAN, J. P. M. A new species of *Diospyros* L. Kew B. 1948: 111-112. 451 K51B  
D. *nummularia*.
- 107 BULLOCK, A. A. *Printzia polifolia* (Linn.) Hutch. Kew B. 1948: 54-55. 451 K51B
- 108 BURKART, A. Las especies de *Mimosa* de la flora argentina. Darwiniana 8: 9-231. June 1948. 450 D25
- 109 BURTT, B. L. The correct names of the Australian bluebell creepers. Kew B. 1948: 74-76. 451 K51B  
*Sollya heterophylla* and *S. drummondii*.
- 110 BURTT, B. L. *Didelta* and *Cuspidia*. Kew B. 1948: 69-73. 451 K51B
- 111 BURTT, B. L. *Kochia odontoptera* and *K. iranica*. Kew B. 1948: 43-45. 451 K51B
- 112 BURTT, B. L., and HILL, A. W. New species of *Nototriche*. Kew B. 1948: 125-137. 451 K51B
- 113 BURTT, B. L. A note on *Paraboea*. Kew B. 1948: 55-56. 451 K51B
- 114 CHATTERJEE, D. *Chonemorpha macrophylla* and *C. grandeareana*. Kew B. 1948: 68. 451 K51B
- 115 CHEESMAN, E. E. Classification of the bananas. III. Kew B. 1948: 11-28. 451 K51B
- 116 CHEO, T. Y. The Cruciferae of eastern China. Acad. Sinica. Inst. Bot. Bot. B. 2: 178-194. Sept. 1948. 99.8 F762
- 117 CHEVALIER, A. Un arbre remarquable de la forêt de la Côte d'Ivoire: *Assidora problematica*. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 28: 352-353. July/Aug. 1948. 26 R323
- 118 CHEVALIER, A. Plantes crassulascences de l'ouest africain (*Opuntias* et *Euphorbes*). Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 28: 344-351. July/Aug. 1948. 26 R323
- 119 CHUN, F. Description of new Chinese plants. Arnold Arboretum. J. 29: 419-421. Oct. 1948. 451 Ar6J  
New spp. in *Capparis*, *Acer* and *Mahonia*.
- 120 CLAUSEN, J., KECK, D. D., and HIESEY, W. M. Experimental studies on the nature of species. III. Environmental responses of climatic races of *Achillea*. Carnegie Inst. Wash. P. 581, 129 p. Ref. 1948. 463.8 C57
- 121 CLAUSEN, R. T. Status of *Sedum aikon*. Cactus & Succulent J. 20: 132-135. Sept. 1948. 451 C11
- 122 COSTA, W. F. DA. Botany of cotton (*Gossypium hirsutum* L.). (In Portuguese.) Agronomia [Rio de Janeiro] 7(1): 43-52. Jan./Mar. 1948. 9.2 Ag892
- 123 CRAIG, R. T., and DAWSON, E. Y. A new variety of *Mammillaria scrippsiana*. Cactus & Succulent J. 20: 126-127. Sept. 1948. 451 C11
- 124 DALLIMORE, W. *Metasequoia glyptostroboides*. Q. J. Forestry 42: 150-151. July 1948. 99.8 Q2
- 125 DAVIS, A. Studies of orchid seeds. Amer. Orchid Soc. B. 17: 589-592. Oct. 1948. 80 Am329
- 126 DIAZ, E. Los cardones gigantes de Indoeuropa. Rev. Geog. Amer. 30: 60-62. Aug. 1948. 475 R322
- 127 DUNKLEY, H. L., and BRENAN, J. P. M. *Platypterotheca*, a new tree genus of Celastraceae from Tanganyika. Kew B. 1948: 47-50. 451 K51B
- 128 DUNN, H. A. Orchid collecting in Panama. Amer. Orchid Soc. B. 17: 537-544. Sept. 1948. 80 Am329
- 129 ERSKINE, D., and SCHOFIELD, W. *Floerkea proserpinacoides* in Nova Scotia. Rhodora 50: 283-284. Nov. 1948. 450 R34
- 130 FANG, W. P. New species of *Salix* from Szechwan, China. Wash. Acad. Sci. J. 38: 312-315. Sept. 15, 1948. 500 W276J
- 131 FERNALD, M. L. The confused bases of the name *Pinus palustris*. Rhodora 50: 241-249. Oct. 1948. 450 R34
- 132 FERNALD, M. L. *Erigeron compositus* Pursh, var. *discoideus* Gray, forma *trifidus* (Hook.), stat. nov. Rhodora 50: 238-240. Sept. 1948. 450 R34
- 133 FERNALD, M. L. *Scirpus verecundus*, nom. nov. Rhodora 50: 284. Nov. 1948. 450 R34
- 134 GOULD, F. W. *Elymus aristatus* in California. Madroño 9: 232. July 1948. 450 M26
- 135 HEISER, C. B., JR. Taxonomic and cytological notes on the annual species of *Helianthus*. Torrey Bot. Club. B. 75: 512-515. Ref. Sept./Oct. 1948. 451 T63B
- 136 HERINGER, E. P. Some species of *Cissus*. (In Portuguese.) Rev. da Flora Med. 15: 167-176. Apr. 1948. 71.8 R32
- 137 HERMANN, F. J. Studies in *Lonchocarpus* and related genera. IV. The *Lonchocarpus rugosus* complex and additional Middle American species. Wash. Acad. Sci. J. 38: 310-312. Sept. 15, 1948. 500 W276J
- 138 HERRE, H. The first flowering of *Welwitschia mirabilis* Hook. F. raised from seeds. J. So. African Bot. 14: 105. July 1948. 450 J8262
- 139 HU, H. H. How *Metasequoia*, the "living fossil" was discovered in China. N. Y. Bot. Gard. J. 49: 201-207. Sept. 1948. 451 N48J
- 140 KOBUSKI, C. E. Studies in the Theaceae. XVII. A review of the genus *Bonnetia*. Arnold Arboretum. J. 29: 393-413. Oct. 1948. 451 Ar6J
- 141 LASSER, T. *Plantae novae venezuelanae*. Soc. Venezol. de Cien. Nat. B. 11: 181-188. Jan./Apr. 1948. 516 C172  
New sp. in: *Ocotea*, *Nectandra*, and *Aniba*.
- 142 LEIGHTON, F. M., LEVYNS, MRS. M. R., and LEWIS, G. J. Some changes in nomenclature. V. J. So. African Bot. 14: 81-89. July 1948. 450 J8262
- 143 MARIE-VICTORIN, FRÈRE. Nouvelles études taxonomiques sur la flore de Cuba. Montreal. U. Inst. Bot. Contrib. 63, 77 p. 1948. 451 M763  
I, Le genre *Hedyosmum* (Chloranthaceae), avec description d'une espèce nouvelle; II, Le genre *Belotia* (Tiliacées); III, Le genre *Spathelia* (Rutacées), avec description de cinq espèces et d'une variété nouvelles; IV, Le genre *Purdiaea* (Cyrillacées), avec description de quatre espèces et de trois variétés nouvelles; V, Le genre *Ravenia* (Rutacées), avec description de trois espèces nouvelles; VI, *Sabbatia alainii*, une Gentianacée nouvelle.
- 144 MARKGRAF, F. The distribution of *Brachypodium serpentinum* C. E. Hubbard. Kew B. 1948: 66-67. 451 K51B
- 145 MARSDEN-JONES, E. M., and TURRILL, W. B. Researches of *Silene maritima* and *S. vulgaris*. XXVII-XXVIII. Kew B. 1948: 29-42. 451 K51B
- 146 MASON, H. L., and GRANT, A. D. Some problems in the genus *Gilia*. Madroño 9: 201-220. July 1948. 450 M26
- 147 MATUSZKIEWICZ, W. *Calamagrostis agrostioides* n. spec. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. C 3: 257-258. May 31, 1948. 512 L96Ac
- 148 MATUSZKIEWICZ, W. Materials to the monography of the genus *Calamagrostis* Adans. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. C 3: 223-256. Ref. May 31, 1948. 512 L96Ac  
English summary.
- 149 MELASTOMA and related genera. Food & Flowers 1(2): 45-50. June 1948. 80 F73
- 150 MONTGOMERY, F. H. Notes on the flora of Ontario. I. *Epipactis helleborine*. Rhodora 50: 236-238. Sept. 1948. 450 R34
- 151 MUENSCHER, W. C. *Potamogeton latifolius* in Texas. Madroño 9: 220-223. July 1948. 450 M26
- 152 NARAYANASWAMI, V. *Datura metal* L. and *D. fastuosa* L. Sci. & Cult. 14: 38-39. July 1948. 475 Sci24
- 153 NELMES, E. A new species of *Carex* [C. *tavoyensis*] from Burma. Kew B. 1948: 67-68. 451 K51B
- 154 NELMES, E. Notes on *Carex*. XVI. Kew B. 1948: 107-109. 451 K51B
- 155 PENFOLD, A. R., and MORRISON, F. R. The occurrence of a physiological form of *Eucalyptus citriodora* Hooker. Austral. J. Sci. 11: 29. Aug. 1948. 475 Au72
- 156 PONCE DE LEON, A. Joyas de la flora cubana: el maguey de costa (*Agave legrreliana* Jacobi). Soc. Cubana de Bot. Rev. 4: 67. July/Sept. 1947. 451 So123
- 157 PRIDEAUX-BRUNE, H. Some further notes on *Ginkgo biloba*. Roy Hort. Soc. J. 73: 328-331. Oct. 1948. 84 L84J
- 158 QUISUMBING, E. Studies on *Phalaenopsis*. III. Philippine J. Sci. 77: 1-18. May 1947. 475 P53
- 159 REEDER, J. R. The Gramineae-Panicoideae of New Guinea. Arnold Arboretum. J. 29: 321-392. Oct. 1948. 451 Ar6J



160 ROMBOUITS, J. E. *Theobroma saltzmanniana*. Kew B. 1948: 104-106. 451 K51B

161 ROULEAU, E. Two new names in *Populus*. *Rhodora* 50: 233-236. Sept. 1948. 450 R34

162 SCHUSTER, W. H. The mangroves in the fishing area of Surabaya. (In Dutch.) *Landbouw* 20: 173-177. Apr./May 1948. 22.5 L23

163 SCURTJ, J. An analytical key for the determination of weeds through their seeds. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2(3, sup.), 45 p. 1948. 16 An76

English summary.

164 SHAW, H. K. A. Studies in the Ericales. V-VI. Kew B. 1948: 77-104, 109-110. 451 K51B

V, Further notes on *Agapetes*; VI, Further notes on *Gaultheria dumicola* W. W. Sm.

165 STAFLEU, F. A. A monograph of the Vochysiaceae. *Rec. des Trav. Bot. Néerland.* 41: 397-540. Ref. July 1948. 451 N28R

166 STEENIS, C. G. G. J. VAN. *Dansera* and *Uttienia*, new Malaysian genera of the *Caesalp.-Cassieae* allied to *Dialium*. *Buitenzorg. Bot. Gard. B. (ser. 3)* 17: 413-419. May 1948. 451 B86B

167 STEENIS, C. G. G. J. VAN. The genus *Arisaema* in Java (Arac.). *Buitenzorg. Bot. Gard. B. (ser. 3)* 17: 447-456. May 1948. 451 B86B

168 STEENIS, C. G. G. J. VAN. Malaysian species of *Sophora* (Legum.). *Buitenzorg. Bot. Gard. B. (ser. 3)* 17: 421-428. May 1948. 451 B86B

169 STEENIS, C. G. G. J. VAN. Miscellaneous botanical notes. I. *Buitenzorg. Bot. Gard. B. (ser. 3)* 17: 383-411. May 1948. 451 B86B

Flora of Malaysia, including *Neokeithia conspicua* n. gen., n. sp. (Apocynaceae) and *Hygrophila oligosperma* n. sp.

170 STEENIS, C. G. G. J. VAN. Remarks on some generic names used for Malaysian Phanerogams. I. *Buitenzorg. Bot. Gard. B. (ser. 3)* 17: 457-464. May 1948. 451 B86B

171 STEENIS, C. G. G. J. VAN. Revision of *Symplocos* sect. *Cordylolabste* (Symplac.). *Buitenzorg. Bot. Gard. B. (ser. 3)* 17: 429-446. May 1948. 451 B86E

172 SVENTENIUS, E. R. S. Estudio taxonómico en el género *Bencomia*. Spain. *Inst. Nac. de Invest. Agron. B.* 18: 253-272. Ref. June 1948. 105.6 Sp14

English, French, and German summaries.

Includes n. g.: *Marcelletia* and *Dendriopterium*.

173 SVENTENIUS, E. R. S. Plantas nuevas o poco conocidas de Tenerife. Spain. *Inst. Nac. de Invest. Agron. B.* 18: 273-291. June 1948. 105.8 Sp14

Includes *Sonchus tuberifer* n. sp.

174 TENG, S. C. Notes on the genus *Metasequoia*. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 204-206. Sept. 1948. 451 Acl

175 VAN OOSTSTROOM, S. J. Additional notes on the *Convolvulaceae* of New Guinea. *Arnold Arboretum. J.* 29: 414-418. Oct. 1948. 451 Ar6J

176 WARD, F. K. A fine *Viburnum*. *Gard. Chron.* 124: 134. Oct. 23, 1948. 80 G162

177 WENDELIN, J. Die heimat unserer kakteen. *Gartenbauwirtschaft* 1947(6): 2. June 1947. 80 G1922

#### Pteridophytes

178 BAKER, W. H. Ferns of Fairview Mountain, Calapooya Range, Oregon. *Amer. Fern J.* 38: 89-91. July/Sept. 1948. 450 Am35

179 DUNCAN, W. H. New records of two ferns in Georgia. *Amer. Fern J.* 38: 69-70. July/Sept. 1948. 450 Am35

*Equisetum laevigatum* and *Dryopteris goldiana*.

180 EWAN, J. The discovery of *Ceterach dalhousiae* in Mexico. *Amer. Fern J.* 38: 65-68. July/Sept. 1948. 450 Am35

181 LOOSER, G. The ferns of southern Chile. *Amer. Fern J.* 38: 71-87. (Concl.) July/Sept. 1948. 450 Am35

182 REED, C. F. Two new generic names of ferns. *Amer. Fern J.* 38: 87-89. July/Sept. 1948. 450 Am35

*Polypodiopteris* and *Crepidophyllum*.

#### Bryophytes

183 MENDES, E. J. Cryptogamic notes. II. Hepaticas - 1. (In Portuguese.) *Broteria* 17: 97-99. 1948. 410 B79C

#### Algae

184 DAILY, F. K. *Nitella capillata* A. Br. in North Carolina. *Butler U. Bot. Studies* 8: 123-125. May 1948. 451 B97

185 DANGEARD, P. Sur la flore des algues marines du Maroc occidental. *Paris. Acad. des Sci. Compt. Rend.* 227: 364-365. Aug. 2, 1948. 505 P21

186 THE FLORA of Penikese, seventy-four years after. *Rhodora* 50: 253-279. Nov. 1948. 450 R34

I. Penikese Island marine algae, by M. S. Doty; II. Fresh and brackish water algae of Penikese Island, by H. Croasdale.

187 FOGG, G. E. Blue-green algae. *New Biol.* 5: 9-25. 1948. 442.8 J63

188 HONEY, R. A survey of the marine algae of Guernsey. *Blundell's School Sci. Soc. Mag.* 2: 20-29. 1947. 410 B62

189 JAO, C. C. The marine Myxophyceae in the vicinity of Friday Harbor, Washington. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 161-177. Sept. 1948. 451 Acl

190 JAO, C. C. A new species of *Zygnema*. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 206. Sept. 1948. 451 Acl

*Z. cucurbitinum*.

191 OSBORN, J. E. M. The structure and life history of *Hormosira banksii* (Turner) Decaisne. *Roy. Soc. New Zeal. Trans. & Proc.* 77: 47-71. Ref. Apr. 1948. 514 W46

192 RAO, A. R. *Volvox* in north India. *Cur. Sci.* 17: 240. Aug. 1948. 475 Sci23

193 RUTISHAUSER, A. Über eine neue planktonalge [*Rhizosolenia*] des Hochrheines. *Naturf. Gesell. Schaffhausen. Mitt.* (1946) 21: 44-46. 1947. 508 Schl

#### Fungi (Including Lichens)

194 ALLINGTON, W. B., and CHAMBERLAIN, D. W. Brown stem rot of soybean. *Phytopathology* 38: 793-802. Ref. Oct. 1948. 464.8 P56

*Cephalosporium gregatum* n.sp.

195 BALAKRISHNAN, M. S. South Indian *Phycomycetes*. II. Some little known species of *Pythium* occurring in south India. *Indian Acad. Sci. Proc. Sect. B* 28: 27-34. July 1948. 513 In25B

196 CORTIN, B. Mushrooms in conifer and hardwood forests. (In Swedish.) *Skogsägaren* 24: 168-169. Aug. 1948. 99.8 Sk55

197 DENNIS, R. W. G. Commonwealth Mycological Conference. Research 1: 548-552. Ref. Sept. 1948. 472 R31

198 DONK, M. A. Notes on Malesian fungi. I. *Buitenzorg. Bot. Gard. B. (ser. 3)* 17: 473-482. Ref. May 1948. 451 B86B

199 GÖPFERT, H. Beiträge zur pilzflora des Kantons Schaffhausen. *Naturf. Gesell. Schaffhausen. Mitt.* (1946) 21: 47-74. 1947. 508 Schl

200 GORENZ, A. M., WALKER, J. C., and LARSON, R. H. Morphology and taxonomy of the onion pink-root fungus. *Phytopathology* 38: 831-840. Ref. Oct. 1948. 464.8 P56

*Pyrenochaeta terrestris*.

201 GRELET, L. J. Les *Discomycètes* de France d'après la classification de Boudier, 17. *Rev. de Mycol. (n. s.)* 13: 30-56. May 1948. 450 An74

202 HENRY, L. K. New and noteworthy polypores from western Pennsylvania. *Pa. Acad. Sci. Proc.* 22: 87-93. 1948. 500 P383

203 HENRY, R. Les réactions chimiques colorées en mycologie. *Rev. de Mycol. (n. s.)* 13(sup. 1): 4-9. (To be cont.) May 1948. 450 An74

Determination of fungi by color reaction.

204 HOLDER, J. VAN, MEES, A., and SYS, K. Report on the isolation of five molds at the beginning of the academic year 1947-1948. (In Flemish.) *Gent. Landbouwhoges. Meded.* 13: 113-127. Mar. 1948. 105.1 G344

205 LONG, W. H., and STOUFFER, D. J. Studies in the *Gasteromycetes*: XVI. The *Geastraceae* of the Southwestern United States. *Mycologia* 40: 547-585. Ref. Sept./Oct. 1948. 450 M99

206 NICOT-TOULOUSE, J. À propos des *Pestalozzia* et genres voisins. *Rev. de Mycol. (n. s.)* 13: 57-58. May 1948. 450 An74

207 OLIVE, L. S. Taxonomic notes on Louisiana fungi. II. *Tremellales*. *Mycologia* 40: 586-604. Sept./Oct. 1948. 450 M99



208 RAMAKRISHNAN, T. S., and RANGASWAMI, G. *Uromyces acori* Ramakrishnan and Rangaswami sp. nov., on *Acorus calamus* L. *Cur. Sci.* 17: 240-241. Aug. 1948. 475 Sci23

209 RAPER, K. B., and FENNEL, D. I. New species of *Penicillium*. *Mycologia* 40: 507-546. Ref. Sept./Oct. 1948. 450 M99

210 ROGERS, D. P. On *Zygodesmus*. *Mycologia* 40: 633-635. Sept./Oct. 1948. 450 M99

211 SINGER, R., and SMITH, A. H. Emendations to our proposals concerning the nomenclature of the gill fungi. *Mycologia* 40: 627-629. Sept./Oct. 1948. 450 M99

212 THOMSON, J. W., JR. Experiments upon the regeneration of certain species of *Peltigera*; and their relationship to the taxonomy of this genus. *Torrey Bot. Club. B.* 75: 486-491. Ref. Sept./Oct. 1948. 451 T63B

213 TIMS, E. C., and OLIVE, L. S. Two interesting leaf spots of fig. *Phytopathology* 38: 707-715. Sept. 1948. 464.8 P56

*Cephalosporium fici* n. sp. and *Ormathodium fici* n. sp.

214 VALLEGA, J., and STILLGER, G. Mutación de color en "*Puccinia graminis tritici*." Argentina. *Dir. Gen. de Labs. e Invest. Rev. de Invest. Agr.* 2: 93-96. Ref. Mar. 1948. 9 R329

215 VERONA, O., and FLORENZANO, G. A new species of *Brettanomyces* [*B. italicus*] isolated from grapes. (In Italian.) *Pisa. U. Osserv. Region. di Fito-pat.* [Mem.] 221: 383-387. 1947. 464.9 P67

216 WRIGHT, J. E. Estudios sobre *Basidiomycetes*. I. *Favolus squamiger* Berk. en la Argentina. Argentina. *Inst. de Sanid. Veg. Ser. A* 4(44), 13 p. 1948. 464.9 Ar323

English summary.

## PATHOLOGY

### General

217 ALLERTON, F. W. War on pests and diseases. *Nurseryman & Seedsman* 107: 718-720. Sept. 9, 1948. 80 N933

218 ATKINS, J. G. Report rice seed treatment tests. *Rice J.* 51(9): 11-12. Sept. 1948. 59 R36

219 BAKER, K. F. Nursery seedlings; improved methods of production possible with control of damping-off disease. *Calif. Agr.* [Calif. Sta.] 2(10): 10, 14. Oct. 1948. 100 C12Cag

220 BENLLOCH, M. Un caso de falso "entrenado corto." *Siembra* 1948(7): 4-5. July 1948. 15 Si1

221 BERTRAND, F. Protection des bourgeons et des jeunes greffes contre la dent des lapins. *Potasse* 22: 155-156. Sept. 1948. 57.8 P84

Use of Hexalo.

222 BOSELLI, F. B. Diseases and pests of plants observed in Sardinia in 1947. (In Italian.) *Agr. Sarda* 25: 71-78. (Cont.) Mar. 1948. 16 Ag825

223 BOYCE, J. S. Forest pathology. Ed. 2. New York, McGraw-Hill, 1948. 550 p. (Amer. Forestry Ser.) 464.07 B69F

224 BOYD, O. C. Control of the more important diseases of grapes, raspberries and strawberries in Massachusetts. *Mass. Fruit Growers' Assoc. Rpt.* 54: 117-121. 1948. 81 M384

225 BOYD, O. C., and WHITCOMB, W. D. Control panel discussion. *Mass. Fruit Growers' Assoc. Rpt.* 54: 36-59. 1948. 81 M384

Plant diseases and pests.

226 BOYD, O. C. Fruit diseases and the weather in 1947. *Mass. Fruit Growers' Assoc. Rpt.* 54: 28-31. 1948. 81 M384

227 BREVIGLIERI, N. Observations on prefloral falling of peach buds and their injury from freezes in the spring of 1948. (In Italian.) *Riv. della Ortoflorofruttic. Ital.* 32: 69-87. May/June 1948. 86 R22

English summary.

228 BREZINA, R. Zur bevorstehenden obstbaum-spritzung. *Gart.-Z. Illus. Flora* 70: 173-174. Dec. 1947. 80 G1991

229 CAMPBELL, J. A., and others. Nitrate not blamed for tomato rot. *Miss. Farm Res.* [Miss. Sta.] 11(10): 1, 8. Oct. 1948. 100 M69M1

J. M. Lutz, L. P. McColloch, and G. B. Ramsey, joint authors.

230 CANADA. SCIENCE SERV. DIV. OF BOTANY AND PLANT PATHOLOGY. Twenty-seventh annual report of the Canadian plant disease survey, 1947, by I. L. Connors and D. B. O. Savile. Ottawa, 1948. 118 p. 464.9 C16S

231 CAROSELLI, N. E. Three diseases of pines which cause browning of the needles. *Sci. Tree Topics* 1: 72-74. 1948. 99.8 Sci2

Tip blight, needle cast and twig blight.

232 CASA PACHECO, MARQUES DE. Plagas agrícolas vegetales. *Cult. Mod.* 31: 257-258, 288. July-Aug. 1948. 15 C89

233 CHAPLIN, M. M. Plant pathologist. New York, 1948. 6 p.-folder. (Occup. Index, Inc. Occup. Abs. 110) 464 C36

234 DENMARK. STATENS PLANTEPATOLOGISKE FORSØG. Maanedsoversigt over plantesygdomme. Denmark. *Statens Plantepatologiske Forsøg. Maanedsovers. over Plantesyg.* 296: 15-32; 297: 33-58. May-June 1948. 464.9 Sa4M

Survey of fungus diseases and insect pests of plants by H. R. Hansen, A. Weber, and P. Bovien.

235 DOUMONT, L., and VALEMBERG, M. Soignons les plaies et blessures de nos plantes. *Courrier Hort.* 10: 487. Aug. 1948. 80 C834

236 DRUMMOND, W. C. Humidity and disease. *Begonian* 15: 204-205. Sept. 1948. 96.511 B39

237 DYKSTRA, W. W. Are you up-to-date on mouse control? *Amer. Fruit Grower* 68(10): 14, 29. Oct. 1948. 80 G85

238 EDDINS, A. H. Incidence of potato diseases at Hastings, Florida, in 1948. *Plant Dis. Rptr.* 32: 302-303. July 15, 1948. 1.9 P69P

239 ESFANDIARI, E. Les maladies des plantes cultivées et des arbres fruitiers des régions subtropicales du nord de l'Iran. (In Persian.) *Iran. Dépt. Gén. de la Protect. des Plantes. Lab. Ent. et Phytopath. Appl.* 5: 1-21. Sept. 1947. 464.9 P432

French summary, p. 1-7.

240 FAWCETT, H. S., and KLOTZ, L. J. Exocortis of trifoliate orange resembles shell bark of lemons and scaly bark of oranges. *Calif. Agr.* [Calif. Sta.] 2(10): 13. Oct. 1948. 100 C12Cag

241 FAWCETT, H. S., and KLOTZ, L. J. Stubborn disease affects orange, grapefruit yields. *Calif. Farmer, South. Ed.* 189: 188. Sept. 11, 1948. 6 C126A

242 FAWCETT, H. S., and CALAVAN, E. C. Wood pocket may be result of virus or toxin in parent tree in certain strain of Lisbon lemon. *Calif. Agr.* [Calif. Sta.] 2(9): 12, 15. Sept. 1948. 100 C12Cag

243 FUENTES NOVELLA, A. Enfermedades de los cítricos. *Rev. de Agr., Com. e Indus.* [Panama] 7(84): 44-46. Aug. 1948. 8 R3291

244 GAUDRÓN, J. Política de sanidad vegetal. *Agronomía [Lima]* 13(53): 63-65. 1948. 9.8 Ag83

245 GONÇALVES, R. D. Treatment for the most common diseases of pear, apple, and quince. (In Portuguese.) *Biologico* 14: 119. May 1948. 442.8 B529

246 GREEN, D. E. Potato internal rust. *Amateur Gard.* 65(3356): 17. Sept. 7, 1948. 80 Am13

247 GREENE, L., and REEVES, R. G. Daño causado por la ceniza volcánica al café en el Volcán de San Miguel -- cosecha de 1947. *Café de El Salvador* 208: 653-659. Aug. 1948. 68.28 C112

248 HANTEN, H. Ein wort zur schädlingsbekämpfung. *Gartenbauwirtschaft* 1947(7): 5-6. July 1947. 80 G1922

249 HENDERSON, R. G. Studies on damping-off of alfalfa. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 70-71. 1948. 500 V81

250 HILTON, R. J. Winter and [fruit] trees. II. What can we do about an unsolved problem? *Country Guide* 67(9): 29. Sept. 1948. 7 G76

251 HOWELL, O. B. Sickly foliage. *Arboretum B.* 11(3): 18-19. Fall 1948. 451 Ar1

252 HUNT, R. Touring the fields—burley. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 63(10): 16, 134. Oct. 1948. 6 P945K

Chiefly tobacco diseases and pests.

253 JACKSON, L. W. R., and PATTERSON, A. E. Little leaf in Georgia. *Forest Farmer* 8(1): 8. Oct. 1948. 99.8 F7692

On short-leaf pine.

254 KLOTZ, L. J., and KHAN, I. U. A technique for growing citrus seedlings under aseptic conditions of culture. *Phytopathology* 38: 756-757. Sept. 1948. 464.8 P56



- 255 LAWTON, H. F. Some causes of bud drop. *African Violet Mag.* 2: 15. 1948. 80 Af8
- 256 LEGHIS, H. M. La mort des arbres fruitiers. *Paysan Franç.* 24(369): 13. Sept. 1948. 14 P29
- 257 LEHNER, F. Control of wheat diseases. (In Portuguese.) *Lav. Arroz.* 2(17): 19-20. May 1948. 59.8 L39
- 258 LOEST, F. C. Plant diseases and cultural operations. *Farming So. Africa* 23: 383-385. June 1948. 24 So842
- 259 MACHACEK, J. E., and GREANEY, F. J. Summary of cooperative experiments on treatment of flax seed. *Phytopathology* 38: 803-807. Oct. 1948. 464.8 P56
- 260 MCWHORTER, F. P., and PRICE, W. C. Enation disease of *Primula*. *Plant Dis. Rptr.* 32: 345. Aug. 15, 1948. 1.9 P69P
- 261 MAGIE, R. O., and MILLER, H. N. *Gladiolus* storage rot. *Florists' Rev.* 103(2655): 35. Oct. 14, 1948. 80 W41
- 262 MARSHALL, R. P. A white root rot which merits study as a possible cause of white pine blight. *Sci. Tree Topics* 1: 66-68. 1948. 99.8 Sci2
- 263 MIR, R. M. Los parásitos del olivo. *Cult. Mod.* 31: 251-252. July 1948. 15 C89
- 264 MORSTATT, H. A. *Pflanzenschutz in theorie und praxis.* Berlin, Deutscher Zentralverlag, 1947. 96 p. 464 M83P
- 265 ØSTEBY, A. Winter cleaning in the orchards. Winter spraying. (In Norwegian.) *Norsk Landbr.* 14: 95-97. Mar. 5, 1948. 11 N8122
- 266 PATTERSON, W. Spraying and storing of potatoes. *Worcestershire Agr. Chron.* 16: 319, 321. Aug. 1948. 10 W892
- 267 PEGLION, V. Hidden injuries in grain seeds. (In Italian.) *Glor. di Agr.* 58: 253. Sept. 19, 1948. 16 It1G
- 268 PEROTTI, R. Dying fruit trees in Alto Adige. (In Italian.) *Pisa. U. Osserv. Region. di Fitopat. [Mem.]* 224: 199-208. 1947. 464.9 P67
- 269 PEROTTI, R. Phytopathology notes for 1941-45. (In Italian.) *Pisa. U. Osserv. Region. di Fitopat. [Mem.]* 217: 69-83. 1947. 464.9 P69
- 270 POST, R. L., COLBERG, W. J., and MUNRO, J. A. Results of spraying and dusting potatoes in North Dakota for 1946 and 1947. *Amer. Potato J.* 25: 334-339. Sept. 1948. 75.8 P842
- 271 PRESTON, D. A. Host index of Oklahoma plant diseases, supplement, 1948. *Plant Dis. Rptr.* 32: 398-401. Sept. 15, 1948. 1.9 P69P
- 272 REINKING, O. A. Cabbage seed production in Pacific Northwest in relation to disease. *Farm Res. [N. Y. State Sta.]* 12-13. Oct. 1948. 100 N48A
- 273 REISINGER. Nassbeize auch mit trocken-beizmitteln möglich. *Kärntner Bauer* 98: 277-278. Sept. 1, 1948. 19 K14
- Field crop seeds.
- 274 ROSELLA, E. Lorsque les arbres a noyaux meurent prématurément on accuse trop souvent le cap-node. *Prog. Agr. et Vitic.* 1948: 165-168. Sept. 19/26, 1948. 14 P94
- 275 RÜDIGER, W. Untersuchungen über die pustelkrankheit des leins (Phoma lini). *Beitr. z. Agrarwiss.* 2: 56-60. 1948. 18 B392
- Various causes discussed.
- 276 RYAN, R. W. Disease and insect control notes. *North Amer. Gladiolus Council. B.* 15: 53. Sept. 1948. 96.43 N81
- 277 SACKSTON, W. E. The effect of 2,4-D on some diseases of flax. *Plant Dis. Rptr.* 32: 386-387. Sept. 15, 1948. 1.9 P69P
- 278 SADLER, G. Troublesome diseases you must watch for. *Pop. Gard.* 50: 261-262. Sept. 11, 1948. 80 G1622
- 279 SCHÖNBRUNNER, J. Die wichtigsten krankheiten und schädlinge der reben. *Bundesanst. f. Pflanzenschutz. Flugbl.* 49, 4 p. 1948. 464.9 V672F
- 280 SEIFERT, H. F. Controlling pests of plants. *Ill. Dept. Agr. Ann. Rpt.* 30: 217-234. 1947. 2 IL6R
- Disease and insect control.
- 281 SHEWELL-COOPER, W. E. Soft fruit diseases. *Smallholder* 79(2005): 13. Sept. 3, 1948. 10 Sm1
- 282 SIGRIANSKAYA, N. D. Wilting of alfalfa and rotting of its roots. *Acad. des Sci. de l'U. R. S. S. Compt. Rend. (n. s.)* 54: 647-650. Ref. 1947. 511 P444
- 283 SPRAGUE, R. Cereal disease situation in eastern Washington this season. *Plant Dis. Rptr.* 32: 392-394. Sept. 15, 1948. 1.9 P69P
- 284 STEVENS, N. E. Disease damage in clonal and self-pollinated crops. *Amer. Soc. Agron. J.* 40: 841-844. Sept. 1948. 4 Am34P
- 285 STEWART, W. S., and RIEHL, L. A. Citrus pest control; studies made of results from the addition of 2,4-D to oil sprays. *Calif. Agr. [Calif. Sta.]* 2(9): 3, 16. Sept. 1948. 100 C12Cag
- 286 STORMER, K., and BERNUTH, J. VON. Neue Gesichtspunkte zum Thema pflanzkartoffelgesundheit. *Neue Mitt. f. die Landw.* 3: 209-210. (To be cont.) July 21, 1948. 18 N39
- 287 TOBISCH, W. Kurze anweisung zur gesunderhaltung des rebstockes. *Bundesanst. f. Pflanzenschutz. Flugbl.* 30, 12 p. 1948. 464.9 V672F
- 288 UPPAL, B. N. Diseases of cotton in India. *Bangalore City, Indian Cent. Cotton Com.,* 1948. 32 p. 464.042 Up6
- 289 VAN DER PLANK, J. E. The relation between the size of fields and the spread of plant-disease into them. I. Crowd diseases. *Empire J. Expt. Agr.* 16: 134-142. Ref. July 1948. 10 Em7
- 290 VASUDEVA, R. S., and AZAD, R. N. Potato necrosis. *Cur. Sci.* 17: 216-217. July 1948. 475 Sci23
- 291 VRIEND, S. Frost injuries. (In Dutch.) *Groenten en Fruit* 4: 158-159, 176. Sept. 16, 1948. 80 G89
- To vegetables:
- 292 WADE, G. C. Orchard hygiene in winter for the control of plant diseases. *Fruit World & Mkt. Grower* 49(8): 5, 7. Aug. 5, 1948. 80 F948
- 293 WALLACE, G. B., and WALLACE, M. M. Diseases of papaw and their control. *East African Agr. J.* 13: 240-244. Apr. 1948. 24 Ea74
- 294 WESTCOTT, C. Garden enemies. *Natl. Gard.* 19(9/10): 20. Sept./Oct. 1948. 90.32 N21
- 295 WESTCOTT, C. Plants have tumors, too! *Sun-up* 3(4): 11-12. Oct./Nov. 1948. 80 Su7
- 296 WHITCOMB, W. D. Report of Committee on Insects and Diseases. *Mass. Fruit Growers' Assoc. Rpt.* 54: 31-33. 1948. 81 M384
- 297 WILD, A. S. Mill offal for rabbit poisoning. *West. Austral. Dept. Agr. J. (ser. 2)* 25: 99-100. June 1948. 23 W52J
- Diseases Caused by Fungi
- 298 ALEXOPOULOS, C. J., and CATION, D. Stem-end rot of strawberries. *Phytopathology* 38: 698-706. Ref. Sept. 1948. 464.8 P56
- 299 ANDRÉN, F. Spraying experiments for control of scab of apple. (In Dutch.) *Sweden. Statens Växtskyddsanst. Växtskyddsnotiser* 1947: 69-73. Nov. 1947. 464.9 Sw3V
- 300 ARMSTRONG, G. M., and ARMSTRONG, J. K. Nonsusceptible hosts as carriers of wilt *Fusaria*. *Phytopathology* 38: 808-826. Ref. Oct. 1948. 464.8 P56
- 301 ATKINS, F. C. Two *Verticilliums* parasitic on mushrooms. *Gard. Chron.* 124: 60. Aug. 21, 1948. 80 G162
- 302 BAKER, K. F. History and distribution of rose black spot: a correction. *Plant Dis. Rptr.* 32: 397. Sept. 15, 1948. 1.9 P69P
- 303 BALDACCI, E., and GAROFALO, F. Withering of a branch of mandarin orange (*Citrus nobilis* var. *deliciosa*) due to *Bakerophoma tracheiphila*. (In Italian.) *Ricerca Sci.* 18: 625. May/June 1948. 475 It1
- 304 BENLLOCH, M. Los síntomas del mildiu y la pasada primavera. *Agricultura [Madrid]* 17: 301-303. July 1948. 15 Ag84
- On grapes.
- 305 BOIKO, P., and PROCHAEV, V. Rooting of cuttings as a method to control the damping-off of hops. (In Russian.) *Kolkhoz. Proizvod.* 8(5): 40. May 1948. 281.8 K83
- 306 BOYD, O. C. Apple scab control. *Maine State Pomol. Soc. Ann. Rpt.* 75: 24-29. 1948. 81 M28
- 307 BROCK, R. D. The nature of *Fusarium* wilt resistance in the tomato variety Pan America. *Austral. Inst. Agr. Sci. J.* 14: 78-80. June 1948. 23 Au74
- 308 BURRELL, A. B. Apple scab control as seen by a pathologist. *Mass. Fruit Growers' Assoc. Rpt.* 54: 77-95. 1948. 81 M384



- 309 CALLBECK, L. C. Killing potato vines; growers in P.E.I. [Prince Edward Island] are satisfied that vine-destroying sprays have a place in control of dreaded late blight. *Family Herald & Weekly Star* 79 (34): 5, 11. Aug. 1948. 7 F21
- 310 CERUTTI, V. Control of cryptogams that injure field crops. (In Italian.) *Ital. Vinic. ed Agr.* 38: 110-112. May 31, 1948. 95.8 It1
- 311 CHAPMAN, R. A. Mineral nutrition in relation to infection of the tomato by *Septoria lycopersici* Spag. Urbana, 1948. 4 p. 464.04 C36  
Abstract of thesis—Univ. of Illinois.
- 312 CHESTER, K. S. Outbreak of wheat covered smut, and other unusual developments of cereal diseases in Oklahoma. *Plant Dis. Rptr.* 32: 320-321. July 15, 1948. 1.9 P69P
- 313 CONOVER, R. A., WALTER, J. M., and STODARD, D. L. How to control tomato late blight in Florida. *Fla. Grower* 56(10): 5, 30. Oct. 1948. 80 M72
- 314 COSTA, A. S. Yellow spot and burning of tobacco leaves caused by *Corticium solani*. (In Portuguese.) *Biologico* 14: 113-114. May 1948. 442.8 B529
- 315 COX, C. E. Pecan scab [*Cladosporium effusum*] in Maryland. *Plant Dis. Rptr.* 32: 395. Sept. 15, 1948. 1.9 P69P
- 316 COX, C. E., and STARK, F. C., JR. Tomato late blight and its control. *Md. Agr. Col. Ext. C.* 151, 6 p.-folder. Feb. 1947. 275.29 M36L
- 317 CRANDALL, B. S. Las enfermedades de la quina en el Perú, producidas por miembros del género *Phytophthora*. *Agronomia [Lima]* 13(53): 47-61. Ref. 1948. 9.8 Ag83
- 318 CRANDALL, B. S., and DIEGUEZ C., J. *Phytophthora* stem canker of sesame in Peru. *Phytopathology* 38: 753-755. Sept. 1948. 464.8 P56
- 319 CRITOPOULOS, P. D. Overwintering and overwintering of the cereal rust fungi. *Torrey Bot. Club.* B. 75: 492-495. Sept./Oct. 1948. 451 T63B
- 320 DENMARK. STATENS FORSØGSMØJHED I PLANTEKULTUR. Special preparations for the control of plant diseases and pests approved by the State Plant Research Service. (In Danish.) København, 1948. 14 p. 464.4 D41
- 321 DENNIS, R. W. G., and SANDWITH, N. Y. Aecidia of barley rust in Britain. *Nature [London]* 162: 461. Sept. 18, 1948. 472 N21
- 322 DERX, H. G. *Itersonilia*, nouveau genre de *Sporobolomycètes* à mycélium bouclé. *Buitenzorg. Bot. Gard. B.* (ser. 3) 17: 465-472. Ref. May 1948. 451 B86P
- 323 DIMOCK, A. W. New insect control methods encourage powdery mildew. *Florists Exch.* 111(15): 17, 55, 57. Oct. 9, 1948. 80 F666
- 324 EKSTRAND, H. Fungus resistance of winter grain and meadow grass. (In Swedish.) *Nord. Jordbrugsforsk.* 1948: 591-597. 11 N752
- 325 EL-HELALY, A. F. The influence of cultural conditions on flag smut of wheat. *Phytopathology* 38: 688-697. Ref. Sept. 1948. 464.8 P56
- 326 EMILSSON, B., and GUSTAFSSON, N. Studies on the control of late blight in potatoes. III. Preliminary experiments with haulm-killing chemicals. (In Swedish.) *K. Lantbruksakad. Tidskr.* 87: 199-215. 1948. 104 Sw3  
English summary.
- 327 FERNANDEZ ROSENADA, M. El tizón tardío en el tomate. Cuba. *Min. de Agr. Rev.* (ser. 6) 31(1): 51-55. Jan./June 1948. 8 Ag88Re
- 328 FOSTER, W. R. Late blight is threat to potato crop. *Country Life [Vernon]* 32(9): 11. Sept. 1948. 7 C832
- 329 GARCÍA RADA, G. Control of peach powdery mildew [*Sphaerotheca pannosa persicae*] in Peru. *Plant Dis. Rptr.* 32: 319-320. July 15, 1948. 1.9 P69P
- 330 GARRISON, C. S. Loose smut in winter barley. *N. J. Farm & Gard.* 19(9): 11. Sept. 1948. 6 G162
- 331 GHILLINI, C. A. The cause [*Peyronellaea veronensis*] of an injurious alteration of apple. (In Italian.) *Riv. di Fruttic.* 10: 81-87. July 1948. 80 R52  
French and English summaries.
- 332 GHILLINI, C. A. Observations on *Peronospora* [viciae] on peas. (In Italian.) *Riv. della Ortofruttic.* Ital. 32: 95-97. May/June 1948. 86 R22
- 333 GILL, D. L. Camellia flower blight in the South. *Plant Dis. Rptr.* 32: 317-318. July 15, 1948. 1.9 P69P
- 334 GODANICH, G. and MEZZETTI, A. Powdery scab [*Spongopora subterranea*] of potatoes. (In Italian.) *Humus* 4(8): 18. Aug. 1948. 16 H88
- 335 GORTER, G. J. M. A. A note on the physiological races of *Puccinia graminis* collected on a tour in Basutoland. *So. African Sci.* 2: 7-8. Aug. 1948. 475 S08
- 336 GOTTSALL, R., and GOTTSALL, W. Experiences with "fermate." *African Violet Mag.* 2: 23-24. 1948. 80 Af8
- 337 GREMMEN, J. Occurrence of perithecia of *Microsphaera quercina* (Schwein.) Burrill. (In Dutch.) *Nederland. Boschbouw-Tijdschr.* 20: 272-273. Sept. 1948. 99.8 N28  
English summary.  
On oak.
- 338 HAENSELER, C. M. *Fusarium* wilt of cantaloup in New Jersey. *Plant Dis. Rptr.* 32: 395. Sept. 15, 1948. 1.9 P69P
- 339 HARRY, J. B., and others. Development of copper-zinc-chromate complexes as potato fungicides. *Boyce Thompson Inst. Contrib.* 15: 195-210. Ref. July/Sept. 1948. 451 B69  
R. H. Wellman, F. R. Whaley, H. W. Thurston, Jr., and W. A. Chandler, joint authors.
- 340 HAWK, V. B., and WELCH, A. W. Tolerance of varieties of smooth brome grass, *Bromus inermis* Leyss., to injury by root rot, *Pythium graminicola* Subr. *Amer. Soc. Agron. J.* 40: 809-817. Ref. Sept. 1948. 4 Am34P
- 341 HAY, T. The return of *Antirrhinum* rust. *Smallholder* 79(2007): 10. Sept. 17, 1948. 10 Sml
- 342 HILDEBRAND, E. M. *Diplodia* canker on cotton. *Plant Dis. Rptr.* 32: 298-299. July 15, 1948. 1.9 P69P
- 343 HILDEBRAND, E. M. Peach rust (*Tranzschelia pruni-spinosae*) parasitized by *Darlucella filum*. *Plant Dis. Rptr.* 32: 308. July 15, 1948. 1.9 P69P
- 344 JENKINS, A. E. The Swingle *Sphaceloma* hand lens and early records of the pathogene of citrus scab. *Mycologia* 40: 630-632. Sept/Oct. 1948. 450 M99
- 345 JOHNSTON, C. O. The cereal rust situation in Kansas. *Plant Dis. Rptr.* 32: 290. July 15, 1948. 1.9 P69P
- 346 JOHNSTON, C. O., CALDWELL, R. M., and COMPTON, L. E. Leaf rust of wheat in the uniform rust nurseries in the United States, 1938-43. *U. S. D. A. Tech. B.* 960, 13 p. Ref. Sept. 1948. 1 Ag84Te  
Contribution No. 478, serial No. 389, of the Department of Botany and Plant Pathology, Kansas Agricultural Experiment Station; and No. 262 of the Department of Botany and Plant Pathology, Purdue University (Indiana) Agricultural Experiment Station.
- 347 KALTENBACH, R. G. Mes pommes de terre sont brûlées! *Terre* 201: 1-2. Aug. 19/25, 1948. 281.8 T27  
*Phytophthora infestans*.
- 348 KIELY, T. *Guignardia citricarpa* n.sp. and its relationship to the black spot disease of citrus in coastal orchards of New South Wales. *Austral. Inst. Agr. Sci. J.* 14: 81-83. June 1948. 23 Au74
- 349 KILLIAN, C. Relations mutuelles entre le *Tubercinia schizocaulon* (Ces.) Maire et son hôte, *Odonites lutea* Rchb. *Rev. Canad. de Biol.* 7: 334-367. Aug. 1948. 442.8 R325
- 350 KING, N. J. Can downy-mildew disease be eradicated in Queensland? Queensland. *Bur. Sugar Expt. Stas. Cane Growers' Q. B.* 12: 10-12. July 1, 1948. 65.9 Q3C
- 351 KOVACHICH, W. G. A preliminary anatomical note on vascular wilt disease of the oil palm (*Elaeis guineensis*). *Ann. Bot. [London]* (n. s.) 12: 327-329. July 1948. 450 An7  
*Fusarium oxysporum*.
- 352 KRANTZ, F. A., and EIDE, C. J. Resistance to common scab of potatoes in parental clones and in their hybrid progenies. *Amer. Potato J.* 25: 294-300. Aug. 1948. 75.8 P842
- 353 KREITLOW, K. W. Susceptibility of some species of *Trifolium*, *Medicago* and *Melilotus* to *Erysiphe polygoni*. *Plant Dis. Rptr.* 32: 292-294. July 15, 1948. 1.9 P69P
- 354 LEUKEL, R. W. *Dilophospora* and nematode disease in wheat in South Carolina. *Plant Dis. Rptr.* 32: 291-292. July 15, 1948. 1.9 P69P
- 355 LEYENDECKER, P. J. An outbreak of damping off of cotton caused by *Rhizoctonia solani*. *Plant Dis. Rptr.* 32: 299-300. July 15, 1948. 1.9 P69P



- 356 LOURDES, R. DE, PORTA, A., and THOMPSON, D. Estudios sobre el mildiu de la papa, *Phytophthora devastatrix*. *Agros* (ser. 8) 9(3): 90-120. Ref. Oct. 1947. 9.9 Ag82
- 357 LUTTRELL, E. S. Physiologic specialization in *Guignardia bidwellii*, cause of black rot of *Vitis* and *Parthenocissus* species. *Phytopathology* 38: 716-723. Sept. 1948. 464.8 P56
- 358 MACDONALD, J. A. Heather rhizomorph fungus [*Marasmius androsaceus*] in Scotland. *Scot. Agr.* 28: 99-101. Autumn 1948. 10 Sco82So
- 359 MACLEAN, N. A. New hosts for *Botrytis elliptica*. *Phytopathology* 38: 752-753. Sept. 1948. 464.8 P56
- 360 MAGIE, R. O. *Fusarium* yellow and corm rot control. North Amer. *Gladiolus* Council. B. 15: 65-66. Sept. 1948. 96.43 N81
- 361 MAGIE, R. O. *Stemphylium* leaf spot of *Gladiolus* in Florida. *Plant Dis. Rptr.* 32: 344-345. Aug. 15, 1948. 1.9 P69P
- 362 MARSH, R. W. Spraying trials. Bristol. U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1947: 20-24. 389.9 B77A  
For black currant leaf-spot, caused by *Pseudopeziza ribis*.
- 363 MARSHALL, R. P. Maple wilt. N. J. Fed. Shade Tree Comms. Monthly B. 21(8): 2-5. Aug. 1948. 99.8 Sh1  
Verticillium.
- 364 MARTIN, J. F. Chemical methods for eradicating *Ribes* and white pine blister rust control. U. S. Agr. Res. Admin. Res. Achvt. Sheet 98, 2 p. Aug. 1948. 1.98 R31
- 365 MARTIN, W. J. *Ceratophorum* setosum Kirchn. on white lupine in Louisiana. *Plant Dis. Rptr.* 32: 318. July 15, 1948. 1.9 P69P
- 366 MASON, C. L. A study of the fungicidal action of 8-quinolinol and some of its derivatives. *Phytopathology* 38: 740-751. Ref. Sept. 1948. 464.8 P56
- 367 MASSACHUSETTS FOREST AND PARK ASSOCIATION. Dutch elm disease survey for Massachusetts. Boston, 1948. 4 p. 464.07 M384
- 368 MILLER, P. W. Studies on the cause of strawberry root rot in Oregon. 2. *Plant Dis. Rptr.* 32: 309-316. July 15, 1948. 1.9 P69P
- 369 MOHANTY, U. N. The wilt disease of pigeon pea [*Cajanus cajan* (L.) Millsp.] with special reference to the distribution of the causal organism [*Fusarium udum*] in the host tissue. *Indian J. Agr. Sci.* 16: 379-390. Ref. Aug. 1946, pub. 1947. 22 Ag83I
- 370 MOORE, W. D. Weather and the incidence of *Sclerotinia sclerotiorum* on vegetables in south Florida from 1944 to 1948. *Plant Dis. Rptr.* 32: 380-382. Sept. 15, 1948. 1.9 P69P
- 371 NOORDAM, D. Control of wilt disease of American carnations. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 444-448. Ref. July 1948. 86 N384  
English summary.
- 372 PARRIS, G. K. Further observations of the inheritance of resistance to *Fusarium* wilt in watermelon. *Plant Dis. Rptr.* 32: 378-379. Sept. 15, 1948. 1.9 P69P
- 373 PARRIS, G. K. Powdery mildew [*Erysiphe cichoracearum*] on cucumber in Florida. *Plant Dis. Rptr.* 32: 301. July 15, 1948. 1.9 P69P
- 374 PIRONE, P. P. *Botrytis* leaf and flower blight of dogwood. *Plant Dis. Rptr.* 32: 349-350. Aug. 15, 1948. 1.9 P69P
- 375 PIROVANO, A. What is activated sulfur? (In Italian.) *Humus* 3(8): 21. Aug. 1947. 16 H88  
Use as fungicide.
- 376 PLAKIDAS, A. G. Absence of *Ovulinia azaleae* sclerotinia on blighted *Azalea* flowers. *Plant Dis. Rptr.* 32: 320. July 15, 1948. 1.9 P69P
- 377 POHJAKALLIO, O. On the causes of *Sclerotinia trifoliorum* resistance. (In Swedish.) Nord. Jordbrugsforsk. 1948: 598-605. 11 N752  
In clover.
- 378 PRASADA, R. *Darluka filum* (Biv.) Cast., a hyperparasite of *Puccinia graminis* and *Puccinia triticina* in the greenhouse. *Curr. Sci.* 17: 215-216. July 1948. 475 Sci23
- 379 RAMAKRISHNAN, T. S. Ergot sclerotia on *Sorghum vulgare* Pers. *Curr. Sci.* 17: 218. July 1948. 475 Sci23
- 380 RAYNER, R. W., and JONES, P. A. Copper in dusting of coffee plantations. *Fazenda* 43(9): 52, 54. Sept. 1948. 6 H11P
- 381 ROANE, C. W. Varietal reaction of oats to powdery mildew [*Erysiphe graminis*] in Virginia. *Plant Dis. Rptr.* 32: 391. Sept. 15, 1948. 1.9 P69P
- 382 ROBBINS, W. J., KAVANAGH, F., and HERVEY A. Synergism between some antibacterial substances. *Torrey Bot. Club. B.* 75: 502-511. Ref. Sept./Oct. 1948. 451 T63B
- 383 ROWELL, J. B. New fungicides for turf. *Greenkeepers' Rptr.* 16(4): 22-23, 35. July/Aug. 1948. 60.18 G83
- 384 SARGOS, R. Les champignons du pin maritime [*Pinus pinaster*]. *Bois et Résineux* 30(1471): 1-2. Aug. 30, 1948. 99.82 B63
- 385 SCARAMUZZI, G. Tobacco mildew (*Erysiphe cichoracearum*). (In Italian.) *Tabacco* 52: 207-222. Ref. July 1948. 69.8 T115
- 386 SCHELHORN, M. V. Studien über die biologie des erregers der schrotschusskrankheit des steinobstes (*Clasterosporium carpophilum* Aderhold) und über die aussichten einer züchtung schrotschussresistenter sauerkirschensorten. *Züchter* 17/18: 436-439. Ref. Oct./Dec. 1947. 442.8 Z8
- 387 SCOTT, C. E. Severity of peach leaf curl in California in 1948 and infection of late-formed leaves. *Plant Dis. Rptr.* 32: 351. Aug. 15, 1948. 1.9 P69P
- 388 SMITH, W. P. C., HARVEY, H. L., and GOSS, O. Apple scab outbreaks season 1947-48, with special reference to the introduction of the disease by infected buds on imported nursery stock. West. Austral. Dept. Agr. J. (ser. 2) 25: 129-135. June 1948. 23 W52J
- 389 SPRAGUE, R. *Ascochyta* leaf spot on snap bean in Washington. *Plant Dis. Rptr.* 32: 396. Sept. 15, 1948. 1.9 P69P
- 390 STEVENSON, E. C. Results of seed-treatment tests with castor bean. *Plant Dis. Rptr.* 32: 295-298. July 15, 1948. 1.9 P69P
- 391 STEWART, J. G. Kill those blight spores; burning off the haulms is one way of keeping potatoes free from infection in the clamp. *Farmer & Stock-Breeder* 62: 2076. Sept. 7, 1948. 10 F228
- 392 TAYLOR, R. E., and WESTON, W. A. R. D. Celery "blight"; the need for clean celery. *Gt. Brit. Min. Agr. Agriculture* 55: 201-203. Aug. 1948. 10 G79J
- 393 THOMAS, W. D., JR., and others. Dutch elm disease in Colorado. *Plant Dis. Rptr.* 32: 317. July 15, 1948. 1.9 P69P  
G. M. List, M. E. Michaelson, and W. D. Buchanan, joint authors.
- 394 THOMAS, W. D., JR. Potato late blight in Colorado. *Plant Dis. Rptr.* 32: 383. Sept. 15, 1948. 1.9 P69P
- 395 TILEMANS, E. Les remèdes chimiques en agriculture. *Rev. de l'Agr.* 1: 114-119, 275-281. Feb., Apr. 1948. 13 R322  
Fungicides, insecticides, and herbicides.
- 396 TODARO, F. Grain diseases. (In Italian.) *Glor. di Agr.* 58: 231. Aug. 29, 1948. 16 It1G
- 397 TOOLE, E. R. Mimosa wilt. *Forest Farmer* 8(1): 9. Oct. 1948. 99.8 F7692  
*Albizia julibrissin*.
- 398 TREGGI, G. The "chestnut bark canker" in the Pistoian Apennines. (In Italian.) *Pisa. U. Osserv. Region. di Fitopat. [Mem.]* 225: 253-257. 1947. 464.9 P67  
Caused by *Endothia parasitica*.
- 399 WADE, G. C. Control of black spot [*Venturia inaequalis*] of apples. *Tasmanian J. Agr.* 19: 141-143. Aug. 1948. 23 T182T
- 400 WAGER, V. A. The black spot disease of citrus. *Farming So. Africa* 23: 386-390. June 1948. 24 So842  
Also in *Citrus Grower* 175: 7-8. Aug. 31, 1948. 80 C495
- 401 WAIN, R. L. Recent work on the copper fungicides. *Gent. Landbouwhogeschool. Meded.* 13: 13-24. Mar. 1948. 105.1 G344
- 402 WALLACE, M. M. *Ascochyta* blight of cotton. *East African Agr. J.* 14: 10-11. Ref. July 1948. 24 Ea74
- 403 WEIMER, J. L., and SELL, O. E. Stem nematode and *Fusarium* wilt of alfalfa observed for the first time in Georgia. *Plant Dis. Rptr.* 32: 350-351. Aug. 15, 1948. 1.9 P69P
- 404 WHITTEN, H. Potato blight. *M. P. G. News* 2(13): 4, 8. Aug. 1948. 75.8 M11



405 WILHELM, F. Wie bereitet man kupferkalkbrühe? Gartenbauwirtschaft 1947(7): 4. July 1947. 80 G1922

406 WILHELM, F. Die kohlhernie [Plasmodiophora brassicae]. Gartenbauwirtschaft 1947(6): 4. June 1947. 80 G1922

407 WILHELM, F. Die kupfersodabrühe und ihre verwendung. Gartenbauwirtschaft 1947(8): 6-7. Aug. 1947. 80 G1922

408 WILHELM, F. Die schwefelkalkbrühe. Gartenbauwirtschaft 1947(8): 7. Aug. 1947. 80 G1922

409 WILLIAMS, P. H. Fruit rot troubles in tomatoes. Smallholder 79(2002): 4. Aug. 13, 1948. 10 Sml

410 ZWERGER. Die schrotschusskrankheit und ihre bekämpfung. Gart.-Z. Illus. Flora 70: 170-173. Dec. 1947. 80 G1991

Coryneum carpophilum.

#### Diseases Caused by Bacteria

411 ANDRUS, C. F. A method of testing beans for resistance to bacterial blights. Phytopathology 38: 757-759. Sept. 1948. 464.8 P56

412 BAIN, D. C. Black rot [Xanthomonas campestris] of cabbage in Mississippi. Plant Dis. Rptr. 32: 396. Sept. 15, 1948. 1.9 P69P

413 DAVIDSON, R. S. Factors affecting the development of bacterial soft rot of potato tuber initials. Phytopathology 38: 673-687. Ref. Sept. 1948. 464.8 P56

414 DRUMMOND-GONÇALVES, R. Bacterial disease of cassava. (In Portuguese.) Biologico 14: 145-146. June 1948. 442.8 B529

415 EDDINS, A. H. Black rot of cabbage [Bacterium campestris]: outbreak in Florida. Plant Dis. Rptr. 32: 319. July 15, 1948. 1.9 P69P

416 KENDRICK, J. B., JR., and WALKER, J. C. Predisposition of tomato to bacterial canker. J. Agr. Res. 77: 169-186. Sept. 15, 1948. 1 Ag84J

417 KNORR, L. C., and VAUGHN, J. R. Potato ring rot control through use of seed dips and the disinfested stationary cutting knife. Mich. Agr. Expt. Sta. Q. B. 31: 71-82. Aug. 1948. 100 M58S

418 PATEL, M. K. A new bacterial disease of Ipomoea muricata. Cur. Sci. 17: 245. Aug. 1948. 475 Sci23

Xanthomonas uppalii n. sp.

419 PATEL, M. K., and KULKARNI, Y. S. Xanthomonas malvacearum (Erw. F. Smith) Dowson on exotic cottons in India. Cur. Sci. 17: 243-244. Aug. 1948. 475 Sci23

420 SCHMIDT, T. Die bakterienwelke der tomaten. Bundesanst. f. Pflanzenschutz. Flugbl. 21, 2 p. 1948. 464.9 V672F

421 STAPP, C. Der bakterielle pflanzenkrebs und seine bedeutung im lichte allgemeiner krebsforschung. Naturwissenschaften 34: 81-87. Ref. 1947. 474 N213

422 THORNBERRY, H. H., ANDERSON, H. W., and POWELL, D. Observations on peach bacterial spot in Illinois in 1948. Plant Dis. Rptr. 32: 306-307. July 15, 1948. 1.9 P69P

423 WALLACE, G. B. Bacterial soft rot of vegetables. East African Agr. J. 14: 34-35. July 1948. 24 Ea74

#### Viruses and Virus Diseases

424 ALLSTATT, G. E., MCCLAIN, R. L. and STOUT, G. L. A second report on state-wide surveys for quick decline of orange trees in California. Calif. Dept. Agr. B. 37: 168-175. July/Sept. 1948. 2 C12M

425 BJÖRLING, K. Observations concerning virus yellows of sugar beet in Sweden in 1946. (In Swedish.) Nord. Jordbrugsforsk. 1948: 577-584. 11 N752

English summary.

426 BJØRNSTAD, A. Potato virus diseases in Norway. (In Norwegian.) Nord. Jordbrugsforsk. 1948: 586-590. 11 N752

427 BONNICEL, R. Les mystères de la dégénérescence. Soc. d'Études, de Vente et d'Achat des Prod. de Pommes de Terre du Nord-Est. B. de Doc. ... C. Int. 35: 1-2. June/July 1948. 75.9 Sol

428 CONOVER, R. A. Studies of two viruses causing mosaic diseases of soybean. Phytopathology 38: 724-735. Ref. Sept. 1948. 464.8 P56

429 COSTE, A. C. DELLE, OFFERMANN, A. M., and SANTIAGO ZABALA. Determinación de dos virus del haba en cultivos de los alrededores de la ciudad de Buenos Aires. Argentina. Dir. Gen. de Labs. e Invest. Rev. de Invest. Agr. 2: 81-88. Ref. Mar. 1948. 9 R329

430 DONCASTER, J. P., and GREGORY, P. H. The spread of virus diseases in the potato crop. Gt. Brit. Agr. Res. Council Rpt. 7, 189 p. 1948. 10 G795A

431 DSCHUNKOWSKY, E. Différents aspects cliniques de la mosaïque du tabac en rapport avec l'existence de plusieurs virus de cette maladie. Paris. Acad. des Sci. Compt. Rend. 227: 366-367. Aug. 2, 1948. 505 P21

432 FAWCETT, H. S. Psorosis (scaly bark) in the Rio Grande Valley. 3. Tex. Farming & Citric. 25(3): 15-16. Sept. 1948. 80 T31

433 GIGANTE, R. Peach mosaic. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 407-418. Ref. 1948. 16 An76

English summary.

434 HANSEN, H. P. On the conditions for the dissemination of some important insect borne virus diseases of agricultural plants in Denmark. (In Danish.) Nord. Jordbrugsforsk. 1948: 584-585. 11 N752

435 HORN, N. L. A new virus disease of blackberry. Phytopathology 38: 827-830. Oct. 1948. 464.8 P56

436 JAMALAINEN, E. A. Virus diseases of potatoes and pasture. Importance of potato viruses in Finland. (In Swedish.) Nord. Jordbrugsforsk. 1948: 568-570. 11 N752

437 KIRKPATRICK, H. C. Indicator plants for studies with the leafroll virus of potatoes. Amer. Potato J. 25: 283-290. Aug. 1948. 75.8 P842

438 LEYENDECKER, P. J. The occurrence of cabbage yellows in southern New Mexico. Plant Dis. Rptr. 32: 346. Aug. 15, 1948. 1.9 P69P

439 LIHNELL, D. On the occurrence and dissemination of virus diseases of potatoes in Sweden. (In Swedish.) Nord. Jordbrugsforsk. 1948: 571-577. 11 N752

440 MALKIEL, S. Immunochemical studies on tobacco mosaic virus. V. The serological relationship to the Aucuba and J14D1 strains. J. Immunol. 60: 255-263. Ref. Oct. 1948. 448.8 J8232

441 MONTGREMIER, H. A. DE, LIMASSET, P., and MOREL, G. Sur le maintien d'une maladie à virus complexe dans des tissus de tabac cultivés in vitro. Paris. Acad. des Sci. Compt. Rend. 227: 606-608. Sept. 20, 1948. 505 P21

442 OSSIANILSSON, F. Transmission of Y-virus of potatoes by plant lice. (In Swedish.) Statens Växtskyddsanst. Växtskyddsnotiser 1947: 68-69. Nov. 1947. 464.9 Sw3V

443 PFANKUCH, E., and RUSKA, H. Versuche über länge und sedimentationskonstante der tabakmosaikvirusmoleküle vor und nach ihrer beschallung. Z. f. Naturf. 2b: 358-360. Sept./Oct. 1947. 474 Z3

444 PLOPER, J. La "peste negra" del tomate y "peste blanca" del pimiento características y forma de lucha para disminuir los daños. Tucumán. Estac. Expt. Agr. C. 141, 3 p. 1948. 102.5 T79

Transmitted by Frankliniella paucispinosa.

445 ROAF, J. R. Virus diseases? Oregon is after them in stone fruits. Oreg. Dept. Agr. B. 159: 21-22. Sept. 1948. 2 Or3

446 ROLAND, G. Les viroses. B. Hort. (n. s.) 3: 304-305. Oct. 1, 1948. 80 B873

Of Dahlia.

447 ROUSSEL, L. Les virus. Fruits et Primeurs de l'Afrique du Nord, Éd. Maroc. 18: 232-235. July/Aug. 1948. 80 P9482

448 SCHRAMM, G., and BERGOLD, G. Über das molekulargewicht des tabakmosaikvirus. Z. f. Naturf. 2b: 108-112. Ref. Mar./Apr. 1947. 474 Z3

449 SCHRAMM, G. Über die spaltung des tabakmosaikvirus und die wiedervereinigung der spaltstücke zu höhermolekularen proteinen. I. Z. f. Naturf. 2b: 112-121, 249-257. Mar./Apr.-July/Aug., 1947. 474 Z3

450 SEVERIN, H. H. P., and DRAKE, R. M. Sugar-beet mosaic. Hilgardia 18: 483-521. Ref. Nov. 1948. 100 C12H

451 SMITH, F. F., and BRIERLEY, P. Aphid transmission of lily viruses during storage of the bulbs. Phytopathology 38: 841-844. Oct. 1948. 464.8 P56

452 VASUDEVA, R. S., RAYCHAUDHURI, S. P., and PATHANIAN, P. S. Yellow mosaic of lettuce. Cur. Sci. 17: 244-245. Aug. 1948. 475 Sci23

453 WELSH, M. F. Stunt-mottle virus disease of Chrysanthemum. Sci. Agr. 28: 422. Sept. 1948. 7 Sci2

454 WILLISON, R. S., BERKELEY, G. H., and CHAMBERLAIN, G. C. Yellows and necrotic ring spot of sour cherries in Ontario—distribution and spread. Phytopathology 38: 776-792. Ref. Oct. 1948. 464.8 P56



455 WILSON, J. H. The use of the phloroglucinol test for diagnosis of leaf roll in potatoes. Austral. Inst. Agr. Sci. J. 14: 76-78. June 1948. 23 Au74

456 WILSON, J. H. Virus disease in seed potatoes. Tasmanian J. Agr. 19: 149-150. Aug. 1948. 23 T182T

#### Diseases Caused by Nematodes

457 BLACKWOOD, B. B. Now you can stop root knot. Farmer-Stockman 61(9): 31. Sept. 1948. 6 Ok45

458 GOFFART, H. Nematoden und dürre. Neue Mitt. f. die Landw. 3: 86. Mar. 21, 1948. 18 N39

459 MAI, W. F., and LOWNSBERRY, B. F., JR. Studies on the host range of the golden nematode of potatoes, *Heterodera rostochiensis* Wollenweber. Amer. Potato J. 25: 290-294. Aug. 1948. 75.8 P842

460 NEWHALL, A. G. Fumigation controls nematodes in the field. Farm Res. [N. Y. State Sta.] 14(4): 8-9. Oct. 1948. 100 N48A

461 PATTERSON, W. Tackling the potato eelworm; Northern Ireland's determined efforts to be free of the pest. Farmer & Stock-Breeder 62: 2022. Aug. 31, 1948. 10 F228

462 TARJAN, A. C. The inefficacy of ethylene chlorobromide as a therapeutic agent in the treatment of *Gardenias* infected with the root-knot nematode. Phytopathology 38: 845-847. Oct. 1948. 464.8 P56

463 WHITEHEAD, S. B. Beware of potato eelworm. Pop. Gard. 50: 237, viii. Aug. 28, 1948. 80 G1622

464 WILSON, G. F. The bulb and stem eelworm in relation to garden plants. Roy. Hort. Soc. J. 73: 335-345. Ref. Oct. 1948. 84 L84J

465 WOOLMAN, J. Watch out for eelworm: how to diagnose and control attacks by this *Chrysanthemum* menace. Nurseryman & Seedsman 105(32): 24-25. Aug. 7, 1947. 80 N933

#### ECOLOGY

466 ARCHIBALD, E. E. A. Plant populations. I. A new application of Neyman's contagious distribution. Ann. Bot. [London] (n. s.) 12: 221-235. Ref. July 1948. 450 An7

467 AZZI, G. Ecologia agricola. Caracas, Editorial Elite, 1947. 304 p. 64 Az9

468 BARTLETT, M. S. Determination of plant densities. Nature [London] 162: 621. Oct. 16, 1948. 472 N21

469 BOYKO, H. Post war situation of plantsociological research in Palestine. Vegetatio 1: 74-75. July 1, 1948. 450 V52

470 BRAUN-BLANQUET, J. Les progrès de la géobotanique au cours des dernières années (1938-'46). Vegetatio 1: 58-66. Ref. July 1, 1948. 450 V52 France.

471 BRAUN-BLANQUET, J. Übersicht der pflanzengesellschaften rätiens. Vegetatio 1: 29-41. July 1, 1948. 450 V52

472 CHEVALIER, A. Les cartes de végétation naturelle et les cartes agricoles de territoires cultivés ou subissant l'action de l'homme. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 28: 328-334. July/Aug. 1948. 26 R323

473 DAVIES, W. Grassland as a biotic community. Brit. Grassland Soc. J. 3: 171-176. Ref. Sept. 1948. 60.19 B773

474 FELFÖLDY, L. Étude phytosociologique et écologique d'une forêt de robiniers dans les environs de Nyírség, en Hongrie. (In Hungarian.) Erdészeti Kiseletk 47: 59-86. Ref. 1947. 99.9 Er22 French summary.

475 HAYWARD, C. L. Biotic communities of the Wasatch chaparral, Utah. Ecol. Monog. 18: 473-506. Ref. Oct. 1948. 410 Ec72

476 MARGALEF, R. A new limnological method for the investigation of thin-layered epilithic communities. Amer. Micros. Soc. Trans. 67: 153-154. Apr. 1948. 440.9 Am33

477 MOTYKA, J. La distribution et l'écologie des plantes vasculaires sur la limite septentrionale de la Podolie occidentale. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. C 2(sup. 3), 400 p. 1947. 512 L96Ac

French summary.

478 SILVA, A. R. P. DA, and MYRE, M. Une fiche, phytosociologique. Vegetatio 1: 42. July 1, 1948. 450 V52

479 TCHOU, Y. T. Études écologiques et phytosociologiques sur les forêts riveraines du Bas-Languedoc (*Populetum albae*). Vegetatio 1: 2-28. (To be cont.) July 1, 1948. 450 V52

480 TISSOT, P. Faut-il distinguer des régions naturelles et des régions agricoles? Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 28: 334-338. July/Aug. 1948. 26 R323

481 VRIES, D. M. DE. Method and survey of the characterization of Dutch grasslands. Vegetatio 1: 51-57. Ref. July 1, 1948. 450 V52

482 WEAVER, J. E., and BRUNER, W. E. Prairies and pastures of the dissected loess plains of central Nebraska. Ecol. Monog. 18: 507-549. Ref. Oct. 1948. 410 Ec72

#### MORPHOLOGY, ANATOMY, AND CYTOLOGY

483 AYYANGAR, G. S. Discontinuity of hair production of cotton ovules soon after flowering. Indian Cotton Growing Rev. 2: 119-124. July 1948. 72.8 In23

484 BAKER, H. G. Dimorphism and monomorphism in the Plumbaginaceae. I. A survey of the family. Ann. Bot. [London] (n. s.) 12: 207-219. Ref. July 1948. 450 An7

485 BEATUS, R. Entwicklungsgeschichtliche und cytologische untersuchungen an Ascomyceten. II. *Sphaerotheca mors uvae* (Schwein). Z. f. Naturf. 3b: 42-51. Ref. Jan./Feb. 1948. 474 Z3

486 BRODIE, H. J. Variation in fruit bodies of *Cyathus stercoreus* produced in culture. Mycologia 40: 614-626. Sept./Oct. 1948. 450 M99

487 CHAKRAVARTY, H. L. Extrafloral glands of *Cucurbitaceae*. Nature [London] 162: 576-577. Oct. 9, 1948. 472 N21

488 CROIZAT, L. The inflorescence of "Zea mays" a restatement. Rev. Argentina de Agron. 15: 160-211. Sept. 1948. 9 R327

489 DAVIS, T. A. Abnormal palms of Travancore. III. A bulbiferous coconut palm (*Cocos nucifera* L.). Bombay Nat. Hist. Soc. J. 47: 527-529. Apr. 1948. 513 B63

490 DERMEN, H. Chimeral apple sports and their propagation through adventitious buds. J. Hered. 39: 235-242. Aug. 1948. 442.8 Am3

491 DORMER, K. J. Some geometrical considerations regarding imbricate aestivation. Nature [London] 162: 653-654. Oct. 23, 1948. 472 N21

Floral anatomy in the Ranales.

492 DOULAT, E. Sur le comportement des satellites, au cours de la cinèse, dans un noyau de type euchromocentrique: l'*Echium asperum* Lamk. Paris. Acad. des Sci. Compt. Rend. 227: 358-360. Aug. 2, 1948. 505 P21

493 DRAPALA, W. J., RAYMOND, L. C., and CRAMPTON, E. W. Pasture studies. XXVII. The effects of maturity of the plant and its lignification and subsequent digestibility by animals as indicated by methods of plant histology. Macdonald Col. J. Ser. 219: 36-41. 1947. 101 M14R

494 DUTT, N. L., and RAO, J. T. Pistillody in *Saccharum*. Cur. Sci. 17: 241-242. Aug. 1948. 475 Sci23

495 ESAU, K. Phloem structure in the grapevine, and its seasonal changes. Hilgardia 18: 217-296. Ref. May 1948. 100 C12H

496 GLAVINICH, R. Chimeric vegetative hybrids [tomato and *Solanum nigrum*]. (In Russian.) Agrobiologiča 1948(2): 139-142. Mar./Apr. 1948. 20 Ag822

497 GOLDANICH, G., and CAMICI, L. A case of metachromasy. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 419-432. 1948. 16 An76

English summary.

In potato tubers.

498 GOLDSMITH, E. P., and KRUPKO, S. The chromosome number and karyotype of *Senecio isatideus* DC. J. S. African Bot. 14: 107-126. Ref. July 1948. 450 J8262

499 HAMILTON, J. M. Sexual reproduction in the genus *Basidiadia* (Thallophyta, Chlorophyceae). Amer. Micros. Soc. Trans. 67: 201-205. Apr. 1948. 440.9 Am33

500 HOLLAND, H. J. Die zelle. Thür. Gartenbau 1947(12): 8. Sept. 15, 1947. 80 T42

501 HOWARD, H. W. Meiotic irregularities in hexaploid oats. II. A cytological survey of the variety *Picton*. J. Agr. Sci. [London] 38: 332-338. Ref. July 1948. 10 J822



- 502 KOSTRIUKOVA, K. I. On the biological understanding of the development of the pollen grain. (In Russian.) *Agrobiologiya* 1948(2): 51-61. Ref. Mar./Apr. 1948. 20 Ag822  
Observations on Amaryllidaceae.
- 503 KOZLOWSKI, T. T., and SCHOLTES, W. H. Growth of roots and root hairs of pine and hardwood seedlings in the Piedmont. *J. Forestry* 46: 750-754. Ref. Oct. 1948. 99.8 F768
- 504 KOZ'MINA, N. P. Zernovedenie [Seed science]. Moskva, Gosudarstvennoe Izdatel'stvo Tekhnicheskoi i Ekonomicheskoi Literatury po Voprosam Zagotovok, 1947. 314 p. 463.46 K842  
Chiefly cereals and oil seeds.
- 505 KURTZ, E. B., JR. Pollen grain characters of certain Cactaceae. *Torrey Bot. Club. B.* 75: 516-522. Sept./Oct. 1948. 451 T63B
- 506 LE GAL, M. Recherches sur les ornements sporales des Discomycètes operculés. *Ann. des Sci. Nat., Bot. et Biol. Vég.* (ser. 11) 8: 73-297. Ref. 1947. 450 An75
- 507 LENORMAND, H. La capsule des levures. Morphologie et connaissances biochimiques actuelles. *Ann. de Parasitol. Humaine et Compar.* 23: 55-106. Ref. 1948. 436.8 An7
- 508 LI, H. W., LOH, C. S., and LEE, C. L. Cytological studies on sugarcane and its relatives. I. Hybrids between *Saccharum officinarum*, *Miscanthus japonicus* and *Saccharum spontaneum*. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 147-160. Sept. 1948. 451 Acl
- 509 LI, H. W., and LEE, C. L. Cytological studies on sugarcane and its relatives. II. F 1108 a bud sport of F 108. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 195-198. Sept. 1948. 451 Acl
- 510 LOCQUIN, M. Morphologie et structure des spores de *Russula*. *Rev. de Mycol.* (n. s.) 13: 10-29. May 1948. 450 An74
- 511 MEHRA, P. N., and KHOSHOO, T. N. Chromosome number and effect of colchicine on chromosomes of *Colchicum luteum*, Baker. *Cur. Sci.* 17: 242-243. Aug. 1948. 475 Sci23
- 512 MENDES, A. J. T. Cytological observations in coffee. XI. (In Portuguese.) *Bragantia* 7: 221-230. Ref. Sept./Oct. 1947. 102.5 B73Tb  
English summary.
- 513 MENDES, A. J. T. Cytological studies of the genus *Arachis*. (In Portuguese.) *Bragantia* 7: 257-267. Ref. Nov./Dec. 1947. 102.5 B73Tb  
English summary.
- 514 MOEWUS, F. Über morphologische geschlechtsunterschiede bei *Valeriana dioica*. *Z. f. Naturf.* 2b: 313-316. July/Aug. 1947. 474 Z3
- 515 MOREIRA, S., GURGEL, J. T. A., and ARRUDA, L. F. DE. Polyembryony in citrus. (In Portuguese.) *Bragantia* 7: 69-106. Ref. Mar. 1947. 102.5 B73Tb  
English summary.
- 516 MORETTINI, A. Recent knowledge on the floral biology and on the origin and distribution in the soil of the olive root system. (In Italian.) *Olearia* 2: 379-390. Ref. June 1948. 307.8 OL2
- 517 MOSS, B. L. Studies in the genus *Fucus*. I. On the structure and chemical composition of *Fucus vesiculosus* from three Scottish localities. *Ann. Bot. [London]* (n. s.) 12: 267-279. Ref. July 1948. 450 An7
- 518 PARROT, A. G. L'adhérence foliaire en tératologie végétale. *Rev. Sci. [Paris]* 86: 105-110. Jan. 15, 1948. 473 R32
- 519 PLANTEFOL, L. Fondements d'une théorie phylotaxique nouvelle. III-IV. *Ann. des Sci. Nat., Bot. et Biol. Vég.* (ser. 11) 8: 1-71. Ref. 1947. 450 An75
- 520 PORTERES, R. Glumes vestigiales externes dans le genre *Oryza* et position systématique de la tribu des Oryzées. *Rev. Internat. de Bot. Appl. et d'Agr. Trop.* 28: 339-343. Ref. July/Aug. 1948. 26 R323
- 521 PROSKAUER, J. Studies on the morphology of *Anthoceros*. I. *Ann. Bot. [London]* (n. s.) 12: 237-265. Ref. July 1948. 450 An7
- 522 REIJNDERS, A. F. M. Etudes sur le développement et l'organisation histologique des carpophores dans les Agaricales. *Rec. des Trav. Bot. Néerland.* 41: 213-396. Ref. July 1948. 451 N28R
- 523 RILEY, H. P. Chromosomes in a triploid *Gasteria*. *J. So. African Bot.* 14: 97-103. Ref. July 1948. 450 J8262
- 524 SCHOCH-BODMER, H., and HUBER, P. Wachstumstypen plastischer pflanzenmembranen. *Naturf. Gesell. Schaffhausen. Mitt.* (1946) 21: 29-43. Ref. 1947. 508 Schl
- 525 SCHWARTZ-KRAEPELIN, H. Über das vorkommen eines pilzhäutens in den samen. *Z. f. Naturf.* 2b: 450-451. Nov./Dec. 1947. 474 Z3
- 526 SÉCHET, J. La structure du noyau chez les *Iris*. *Paris. Acad. des Sci. Compt. Rend.* 227: 564-566. Sept. 13, 1948. 505 P21
- 527 SLATTER, E. M. The wood structure of *Senecio meruensis* Cotton and Blakelock. *Kew B.* 1948: 51-53. 451 K51B
- 528 SOREL, R. Les mouvements des chloroplastes dans les cellules foliaires d'"*Elodea canadensis*." (Abs.) *Ann. des Sci. Nat., Bot. et Biol. Vég.* (ser. 11) 8: 316-317. 1947. 450 An75
- 529 STERLING, C. Proembryo and early embryogeny in *Taxus cuspidata*. *Torrey Bot. Club. B.* 75: 469-485. Ref. Sept./Oct. 1948. 451 T63B
- 530 STRÜGGER, S. Die anwendung des phasenkontrast-verfahrens zum studium der pflanzenzelle. *Z. f. Naturf.* 2b: 146-151. Mar./Apr. 1947. 474 Z3
- 531 VERONA, O., and FLORENZANO, G. Some morphological aspects of *Candida pulcherrima* (Lindner) Windisch. (In Italian.) *Pisa. U. Osserv. Region. di Fitopat. [Mem.]* 220: 103-107. 1947. 464.9 P67
- 532 WAGG, J. W. B. The formation of resin canals in Douglas-fir as influenced by environment. (Abs.) *J. Forestry* 46: 768. Oct. 1948. 99.8 F768
- 533 WHITE, D. J. B. Timber and the living tree. *Timber News* 56: 347-348. Sept. 1948. 99.81 T482
- 534 WILDE, M. H., and EAMES, A. J. The ovule and 'seed' of *Araucaria bidwilli* with discussion of the taxonomy of the genus. I. *Ann. Bot. [London]* (n. s.) 12: 311-326. Ref. July 1948. 450 An7
- 535 YOUNGKEN, H. W. Observations on the leaves of several species of *Viburnum*. *Amer. Pharm. Assoc. J. Sci. Ed.* 37: 349-353. Sept. 1948. 396.9 Am33J

## GENETICS

- 536 ANDERSON, E. G. On the frequency and transmitted chromosome alterations and gene mutations induced by atomic bomb radiations in maize. *Natl. Acad. Sci. Proc.* 34: 387-390. Aug. 1948. 500 N21P
- 537 AVAKIAN, A. A. Some problems in the individual development of plants. (In Russian.) *Agrobiologiya* 1948(2): 10-21. Mar./Apr. 1948. 20 Ag822  
Heredity study of garlic and onions.
- 538 BALASUBRAHMANYAN, R. Pollen viability in cotton. *Indian Cotton Growing Rev.* 2: 145. July 1948. 72.8 In23
- 539 BEADLE, G. W. The genes of men and molds. *Sci. Amer.* 179(3): 30-39. Sept. 1948. 470 Sci25  
Study of *Neurospora crassa*.
- 540 CASPARI, E. Cytoplasmic inheritance. In Demerec, M., ed. *Advances in genetics*, v. 2, p. 1-65. Ref. N. Y., Academic Press, 1948. 443 D39  
Based on plant and insect studies.
- 541 CHILE. MINISTERIO DE AGRICULTURA. Semillas genéticas, 1948. Santiago, 1948. 24 p. 64.9 C43S
- 542 CHUN, C. K. Etude génétique de l'hybride entre "*Triticum monococcum* var. vulgare" et le "*Triticum vulgare*" var. hybride de la paix. (Abs.) *Ann. des Sci. Nat., Bot. et Biol. Vég.* (ser. 11) 8: 315-316. 1947. 450 An75
- 543 CROW, J. F. Alternative hypotheses of hybrid vigor. *Genetics* 33: 477-487. Ref. Sept. 1948. 442.8 G28
- 544 DELUPIS, S. D. Heredity and seed selection. (In Italian.) *Tabacco* 52: 162-177. June 1948. 69.8 T115  
English and French summaries.
- 545 ETTER, F. Experiences of an amateur plant breeder. *Pa. Nut Growers Assoc. Proc.* 16: 3-6. 1948. 94.69 P38
- 546 FISHER, R. A., and MARTIN, V. C. Genetics of style-length in *Oxalis*. *Nature [London]* 162: 533. Oct. 2, 1948. 472 N21
- 547 FRANDSEN, K. J. Observations on polyploid forms of cultivated plants. (*Trifolium pratense*, *T. hybridum* and *T. repens*). (In Danish.) *Nord. Jordbrugsforsk.* 1948: 508-527. 11 N752  
English summary.
- 548 GORFINKEL, L. The influence of crossing on the nicotinic acid content of maize. *J. Agr. Sci. [London]* 38: 339-342. July 1948. 10 J822



- 549 JOHNSON, L. P. V. Dr. W. J. Spillman's discoveries in genetics. *J. Hered.* 39: 247-252. Sept. 1948. 442.8 Am3  
An evaluation of his pre-Mendelian experiments with wheat.
- 550 KAPLAN, R. Spontane mutabilität bei *Bacterium prodigiosum*. *Z. f. Naturf.* 2b: 308-312. July/Aug. 1947. 474 Z3
- 551 KAPLAN, R. Ultraviolett-mutabilität bei *Bacterium prodigiosum*. *Z. f. Naturf.* 3b: 29-35. Jan./Feb. 1948. 474 Z3
- 552 KHACHATRIAN, S. S. Nature of the variability of vegetative and pollinated tomato hybrids. (In Russian.) *Agrobiologičeskii* 1948(2): 74-89. Mar./Apr. 1948. 20 Ag822
- 553 KUCKUCK, H. Inzucht als genetisches problem und methode der züchtung. *Züchter* 17/18: 391-402. Ref. Oct./Dec. 1947. 442.8 Z8  
In plants.
- 554 LAUGHNAN, J. R. The action of allelic forms of the gene A in maize. I. Studies of variability, dosage and dominance relations. The divergent character of the series. *Genetics* 33: 488-517. Ref. Sept. 1948. 442.8 G28
- 555 LEGHIS, L. M. La sélection dans les végétaux. *Paysan Franç.* 24(368): 8-9. Aug. 1948. 14 P29
- 556 LEIN, J., MITCHELL, H. K., and HOULAHAN, M. B. A method for selection of biochemical mutants of *Neurospora*. *Natl. Acad. Sci. Proc.* 34: 435-442. Ref. Sept. 1948. 500 N21P
- 557 MATHER, K. Inbreeding and hybrid vigour in crops and livestock. *Nature [London]* 162: 642-643. Oct. 23, 1948. 472 N21
- 558 MICHAELIS, P. Über das genetische system der zelle. *Naturwissenschaften* 34: 18-22. Ref. 1947. 474 N213  
Study of *Epilobium*.
- 559 MUNOZ GINARLE, B. Genética del maíz. *Cult. Mod.* 31: 297-298. Aug. 1948. 15 C89
- 560 MÜNTZING, A. Data on breeding of tetraploid rye and rye wheat. (In Swedish.) *Nord. Jordbrugsforsk.* 1948: 499-507. 11 N752
- 561 PESOLA, V. A. Plant breeding in Finland. *Foreign Agr.* 12(9): 192-194. Sept. 1948. 1.9 Ec7For
- 562 RASMUSSEN, J. Effect of different number of chromosomes on quality of sugar beets. (In Swedish.) *Nord. Jordbrugsforsk.* 1948: 491-498. 11 N752
- 563 SALA ROCA, E. La obra de un genetista [Apolinar Azanza]. *Cult. Mod.* 31: 249-250. July 1948. 15 C89  
Grain genetics.
- 564 SALAMOV, A. B. Reciprocal crossings in corn. (In Russian.) *Agrobiologičeskii* 1948(2): 135-138. Mar./Apr. 1948. 20 Ag822
- 565 SCHIEMANN, E. Über McFadden-Sears's theorie zur phylogenie des weizens. *Züchter* 17/18: 385-391. Ref. Oct./Dec. 1947. 442.8 Z8
- 566 SCHNACK, B., FERNANDEZ, O., and WURCELDORF WARDEN, J. Genética de la intensidad de la pigmentación antocianica en "*Matthiola incana*." *Argentina. Dir. Gen. de Labs. e Invest. Rev. de Invest. Agr.* 2: 65-79. Mar. 1948. 9 R329
- 567 SCOTTISH SOCIETY FOR RESEARCH IN PLANT-BREEDING. Report by the directors and report by the director of research to the annual general meeting, 29th July 1948. Edinburgh, 1948. 46 p. 10 Sco86
- 568 SHEWELL-COOPER, W. E. Raising new varieties; the elementary rules of cross-fertilisation. *Field* 192: 275. Sept. 4, 1948. 10 F45  
Chiefly ornamental plants.
- 569 SHULL, G. H. What is "heterosis"? *Genetics* 33: 439-446. Ref. Sept. 1948. 442.8 G28  
Plants.
- 570 SMITH, F. L., and MADSEN, C. B. Seed-color inheritance in beans. Interaction of the alleles at the R, Rk and Bl loci in *Phaseolus vulgaris*. *J. Hered.* 39: 191-194. July 1948. 442.8 Am3
- 571 SPILLMAN, R. Some further evidence on the W. J. Spillman case. *J. Hered.* 39: 253-254. Sept. 1948. 442.8 Am3
- 572 THOMPSON, R. C., HANEY, J. W., and KOSAR, W. F. Two new 26-chromosome forms of *Lactuca*: a report on their genetic and cytological relationships. *J. Hered.* 39: 262-267. Sept. 1948. 442.8 Am3
- 573 TOXOPEUS, H. J. Doubling of chromosome numbers and tropical plant breeding. (In Dutch.) *Landbouw* 20: 165-172. Apr./May 1948. 22.5 L23  
English summary.
- 574 TROLL, H. J. Beobachtungen über die winterfestigkeit und deren vererbung an verschiedenen rapsformen und ihren bastarden. *Züchter* 17/18: 439-447. Ref. Oct./Dec. 1947. 442.8 Z8
- 575 TSITSIN, N. V. Puti sozdanija novykh kul'turnykh rastenij [Methods of creating new cultivated plants]. Moskva, 1948. 21 p. 463.62 T78
- 576 VAARAMA, A. Cytogenetic studies on two *Rubus arcticus*-hybrids. *Suomen Maataloustiet. Seura, Maataloustiet. Aikakausk.* 20: 67-79. 1948. 20 Su7M
- 577 WAGNER, R. P., and GUIRARD, B. M. A gene-controlled reaction in *Neurospora* involving the synthesis of pantothenic acid. *Natl. Acad. Sci. Proc.* 34: 398-402. Ref. Aug. 1948. 500 N21P
- 578 ZIEBARTH, F. Erbbedingte eigenschaften und äussere erscheinungsform unserer holzarten. *Forstw., Holzw.* 1: 137-140. Aug. 1, 1947. 99.8 F7793

## PHYSIOLOGY

- 579 ADDICOTT, N. Hydroponics. *Pa. Acad. Sci. Proc.* 22: 173-176. 1948. 500 P383
- 580 ALLISON, F. E., and others. Gaseous losses of nitrogen from green plants. I-II. *Plant Physiol.* 23: 496-504, 601-608. Ref. Oct. 1948. 450 P692  
K. S. Love, L. A. Pinck, V. L. Gaddy, and L. de T. Sterling, joint authors.  
I. Studies with *Chlorella* and *Lemna*; II. Studies with excised leaves in nutrient media.
- 581 ARVY, L., and LHOSTE, J. Etude de quelques anomalies morphologiques provoquées par le 2-4 dichlorophénoxyacétate de sodium. *Ann. des Sci. Nat., Bot. et Biol. Vég. (ser. 11)* 8: 305-314. Ref. 1947. 450 An75
- 582 ASKEW, H. O. Study of magnesium deficiency in apples. *Victory Farm Forum* 1948(32): 13-14. Sept. 1948. 281.8 F226
- 583 BALDONI, R. Experiments to induce parthenocarp in the tomato. (In Italian.) *Humus* 4(2): 15-17. Feb. 1948. 16 H88
- 584 BALLATORE, G. P. Treatment of seeds with growth substances. (In Italian.) *Humus* 4(8): 6-8. Aug. 1948. 16 H88
- 585 BARRY, J. P. Effet des herbicides à base "d'hormones" sur le lin. *Ann. Agron.* 18: 484-487. July/Aug. 1948. 14 An75A
- 586 BARTLETT, F. A. Sugar is secret of nature's autumnal foliage. *Gard. Chron. Amer.* 52: 260, 277. Oct. 1948. 80 G1632
- 587 BEILMANN, A. P. The rise and fall of sap. *Trees [Cleveland]* 8(6): 6-7, 20. Sept./Oct. 1948. 99.8 W52
- 588 BENSIA, S. Experiments on synthetic hormones employed for cuttings and against weeds. (In Italian.) *Ann. della Sper. Agr. (n.s.)* 2: 371-381. 1948. 16 An76  
English summary.
- 589 BIBBEY, R. O. Physiological studies of weed seed germination. *Plant Physiol.* 23: 467-484. Ref. Oct. 1948. 450 P692
- 590 BOYD, O. C. Diseases and weather in Massachusetts. *Plant Dis. Rptr.* 32: 348-349. Aug. 15, 1948. 1.9 P69P
- 591 BREVIGLIERI, N. First contribution on the application of plant hormones to lessen preharvest drop in olives. (In Italian.) *Olearia* 2: 397-404. June 1948. 307.8 OL2
- 592 BULARD, C. Inversion du géotropisme par l'hétéroauxine chez *Thuya orientalis*. *Paris. Acad. des Sci. Compt. Rend.* 227: 443-444. Aug. 18, 1948. 505 P21
- 593 BÜNNING, E., and HAAG-PFAFFENHÖFER, L. Die vermittelnde rolle von erregungsvorgängen bei der formativen wirkung des lichts auf pflanzen. *Naturwissenschaften* 34: 58. 1947. 474 N213
- 594 BURSTRÖM, H. Mineral nutrition of plants. *Ann. Rev. Biochem.* 17: 579-600. Ref. 1948. 381 An7
- 595 CALDECOTT, R. S., and SMITH, L. Resuscitation of heat-inactivated seeds with X-radiation. *J. Hered.* 39: 195-198. July 1948. 442.8 Am3
- 596 CAMUS, G., and GAUTHERET, R. J. Nouvelles recherches sur le greffage de tissus normaux et tumoraux sur des fragments de racines de scorsonère cultivés in vitro. *Soc. de Biol. Compt. Rend.* 142: 769-771. June 1948. 442.9 P21



- 597 CAMUS, G., and GAUTHERET, R. J. Sur le repiquage des proliférations induites sur des fragments de racines de scorsonère par des tissus de crown-gall et des tissus ayant subi le phénomène d'accoutumance aux hétéro-auxines. *Soc. de Biol. Compt. Rend.* 142: 771-773. June 1948. 442.9 P21
- 598 CARRION Y CARRION, P. Duración de la propiedad germinativa de algunas semillas. *Almanaque Campesino del ABC* 8(8): 49. Jan. 1948. 8 AL63
- 599 CASTORINA, S. The phenomenon of "insanguamento" of the olive. (In Italian.) *Olivicoltura* 3(7): 1-7. July 1948. 80 OL42  
Excessive absorption of water by the olive and abundant production of coloring matter.
- 600 CATCHESIDE, D. G. Genetic effects of radiations. In Demerec, M., ed. *Advances in genetics*, v. 2, p. 271-358. N. Y., Academic Press, 1948. 443 D39  
Based on plant and insect studies.
- 601 CHEVALIER, A. Les Cedrela's des rues de Paris et l'irrégularité de leur floraison. *Paris. Acad. des Sci. Compt. Rend.* 227: 322-325. Aug. 2, 1948. 505 P21
- 602 CHINOY, J. J., and NANDA, K. K. Physiological studies in growth and development of crop plants. I. Photoperiodic induction of developmental abnormalities in Indian wheat. *Indian J. Agr. Sci.* 16: 390-399. Ref. Aug. 1946, pub. 1947. 22 Ag831
- 603 CHOUARD, P. Les progrès récents dans la connaissance et l'emploi des substances de croissance. *Rev. Internatl. de Bot. Appl. et d'Agr. Trop.* 28: 316-327. (Cont.) July/Aug. 1948. 26 R323
- 604 CIRAUZA, C. La permeabilidad celular. *Agricultura [Madrid]* 17: 370-371. Aug. 1948. 15 Ag84  
In plant and animal tissue.
- 605 COHEN, C. A first report on mycorrhiza associated with some Transvaal plants. *J. So. African Bot.* 14: 91-95. July 1948. 450 J8262
- 606 COMAR, C. L. Radioisotopes in nutritional trace element studies. I. *Nucleonics* 3(3): 32-45. Sept. 1948. 334.8 N88  
First article in a series on radiotracer studies in plant and animal metabolism.
- 607 COOLEY, J. S. Collar injury of apple trees associated with waterlogged soil. *Phytopathology* 38: 736-739. Sept. 1948. 464.8 P56
- 608 CRAMER, M., and MYERS, J. Nitrate reduction and assimilation in *Chlorella*. *J. Gen. Physiol.* 32 (1): 93-102. Ref. Sept. 20, 1948. 447.8 J822
- 609 CRANE, H. L. Factors influencing the hardiness of woody plants. *S. Dak. State Hort. Soc. Ann. Rpt.* (1947/48) 45: 34-37. 1948. 81 So86
- 610 DASTUR, R. H. Amelioration of bad opening of bolls in American cottons in Sind. *Indian Cotton Growing Rev.* 2: 110-118. July 1948. 72.8 In23  
Tirak.
- 611 DENNY, F. E. The role of the surface microflora in measurements of the respiration rate of germinating seeds. *Boyce Thompson Inst. Contrib.* 15: 211-227. Ref. July/Sept. 1948. 451 B69
- 612 DE ROPP, R. S. Action of streptomycin on plant tumours. *Nature [London]* 162: 459-460. Sept. 18, 1948. 472 N21
- 613 DEYS, W. B. Measurements of the respiration of tea leaves. (In Dutch.) *Arch. v. de Theecult.* 16: 1-15. Apr. 1948. 68.18 Ea72  
English summary.
- 614 DICKEY, R. D. Correct tung tree bronzing. *Fla. Grower* 56(10): 21. Oct. 1948. 80 M72
- 615 DOBRUNOV, L. G., and GLADYSHEVA, O. M. Qualitative differences between fruits from different parts of the crown of an apple tree. *Acad. des Sci. de l'U. R. S. S. Compt. Rend. (n. s.)* 54: 651-654. 1947. 511 P444
- 616 DOTTL, F., and BRASCA, M. F. Contribution on stimulating substances as rooting agents. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2: 357-370. 1948. 16 An76  
English summary.
- 617 DRAWERT, H. Zur frage der stoffaufnahme durch die lebende pflanzliche zelle. V. Zur theorie der aufnahme basischer stoffe. *Z. f. Naturf.* 3b: 111-120. Mar./Apr. 1948. 474 Z3
- 618 DUFRENOY, J. Physiologie des plantules de riz. *Rev. Internatl. de Bot. Appl. et d'Agr. Trop.* 28: 365-366. July/Aug. 1948. 26 R323
- 619 EHRENSBERGER, R. Osmotische werthe und permeabilität der zellen polyploder reihen bei blütenpflanzen. *Z. f. Naturf.* 3b: 120-125. Mar./Apr. 1948. 474 Z3
- 620 FEHÉR, D. Researches on the biological effect of the penetrating rays of the elements. (In Hungarian.) *Erdészeti Kísérletek* 47: 212-229. 1947. 99.9 Er22  
German summary.  
Experiments with peas.
- 621 FINK, H., and HOCK, A. Über den biologischen wert des eiweisses verschiedener hefen für das wachstum. *Z. f. Naturf.* 2b: 187-203. May/June 1947. 474 Z3
- 622 FLEMION, F. Reliability of the excised embryo method as a rapid test for determining the germinative capacity of dormant seeds. *Boyce Thompson Inst. Contrib.* 15: 229-241. Ref. July/Sept. 1948. 451 B69
- 623 FLEMION, F., and POOLE, H. Seed viability tests with 2,3,5-triphenyltetrazolium chloride. *Boyce Thompson Inst. Contrib.* 15: 243-258. Ref. July/Sept. 1948. 451 B69
- 624 FÖRSTER, T. Ein beitrag zur theorie der photosynthese. *Z. f. Naturf.* 2b: 174-182. Ref. May/June 1947. 474 Z3
- 625 FREELAND, R. O. Photosynthesis in relation to stomatal frequency and distribution. *Plant Physiol.* 23: 595-600. Ref. Oct. 1948. 450 P692
- 626 FRIES, N., and KIHLMAN, B. Fungal mutations obtained with methyl xanthines. *Nature [London]* 162: 573-574. Oct. 9, 1948. 472 N21
- 627 GAUTHERET, R. J. Sur la culture indéfinie des tissus de *Salix caprea*. *Soc. de Biol. Compt. Rend.* 142: 807-808. June 1948. 442.9 P21
- 628 GAUTHERET, R. J. Sur l'utilisation du glycérol par les cultures de tissus végétaux. *Soc. de Biol. Compt. Rend.* 142: 808-810. June 1948. 442.9 P21
- 629 GAUTHERET, R. J. Action de l'acide indole-acétique sur le développement de 3 types de tissus de scorsonère: tissus normaux, tissus de crown-gall et tissus accoutumés à l'hétéro-auxine. *Soc. de Biol. Compt. Rend.* 142: 774-775. June 1948. 442.9 P21
- 630 GERKING, S. D. Destruction of submerged aquatic plants by 2,4-D. *J. Wildlife Mangt.* 12: 221-227. July 1948. 410 J827
- 631 GESSNER, F., and SCHUMANN-PETERSEN, M. Untersuchungen über den wasserhaushalt der pflanzen bei stickstoffmangel. *Z. f. Naturf.* 3b: 36-41. Jan./Feb. 1948. 474 Z3
- 632 GIFFORD, J. C. Leaf fall. *Organic Gard.* 13 (4): 46-48. Oct. 1948. 56.8 Or3
- 633 GLUSHCHENKO, I. E. Variability of some seed characteristics of hybrids of Gumbert tomatoes grafted on different root-stocks. (In Russian.) *Agrobiologia* 1948(2): 62-73. Mar./Apr. 1948. 20 Ag822
- 634 GOEDEWAAGEN, M. A. J. Root system of agricultural plants. (In Dutch.) *T.N.O.-Nieuws* 3: 242-250. Sept. 1948. 475 T11
- 635 GOIDANICH, G. Goidanich has his say. (In Italian.) *Avvenire Agr.* 58: 133-135. June 1948. 16 Av9  
Sterility of seed potatoes of the Bintje variety.
- 636 GOLDSWORTHY, M. C., and WILSON, R. A. Effect of soil applications of "parathion" on the top growth of Blakemore strawberry plants. *Plant Dis. Rptr.* 32: 388-390. Sept. 15, 1948. 1.9 P69P
- 637 GREEN, D. E. Grape shanking. *Amateur Gard.* 65(3354): 13. Aug. 24, 1948. 80 Am13
- 638 GREEN, M., and FULLER, H. J. Indole-3-acetic acid and flowering. *Science* 108: 415-416. Oct. 15, 1948. 470 Sci2
- 639 GUY, R. Les phyto-hormones de synthèse. *Chim. & Indus.* 60: 225-232. Sept. 1948. 383 C42
- 640 HAAS, A. R. C. Symptoms of low potassium in leaves of citrus orchards. *Calif. Citrog.* 33: 520, 530, 532, 534-535. Oct. 1948. 80 C125
- 641 HALL, T. D., MEREDITH, D., and MURRAY, S. M. Dry matter and protein of pastures as affected by amounts and forms of nitrogen applied. n. p., 1947. 7 p. 389.7 H14
- 642 HALPERN, B. N., BAZIN, S., and GAUDIN, O. Étude de l'influence des cations sur la perméabilité cutanée et cellulaire vis-à-vis de certains dérivés salicylés. Recherches sur la perméabilité cellulaire chez les algues d'eau douce. *Soc. de Biol. Compt. Rend.* 142: 822-823. June 1948. 442.9 P21
- 643 HARRIS, A. The hormone era. *Country Guide* 67(10): 8. Oct. 1948. 7 G76  
Chiefly 2, 4-D.
- 644 HARRIS, A. Making a flower bloom; the blooming season of many varieties can be altered by changing the supply of light. *Country Guide* 67(9): 31. Sept. 1948. 7 G76



- 645 HAYNES, J. L., and ROBBINS, W. R. Calcium and boron as essential factors in the root environment. *Amer. Soc. Agron. J.* 40: 795-803. Sept. 1948. 4 Am34P
- 646 HENDERSON, J. H. M., and VEAL, M. P. The effect of the interrelationship of boron and manganese on the growth and calcium uptake of blue lupine (*Lupinus angustifolius* L.) in solution culture. *Plant Physiol.* 23: 609-620. Ref. Oct. 1948. 450 P692
- 647 HITCHCOCK, A. E., and ZIMMERMAN, P. W. Activation of 2,4-D by various adjuvants. *Boyce Thompson Inst. Contrib.* 15: 173-193. Ref. July/Sept. 1948. 451 B69
- 648 HOEKSTRA, P. On drought resistant plants. (Observations on the article "Droogteresistente gewassen" in *Tectona*, v. XXXVI, No. 4, August 1946 by Dr. F. H. Endert). (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 64-68. June 1947. 41.8 V51
- 649 HOLLIS, J. P. Oxygen and carbon dioxide relations of *Fusarium oxysporum* Schlecht. and *Fusarium eumartii* Carp. *Phytopathology* 38: 761-775. Ref. Oct. 1948. 464.8 P56
- 650 HORSFALL, J. G. An unusual occurrence of tomato blossom-end rot. *Plant Dis. Rptr.* 32: 351. Aug. 15, 1948. 1.9 P69P
- 651 JACOBSON, H. G. M. A technique for introducing radioactive phosphorus into the grain of growing corn. *Plant Physiol.* 23: 636-637. Oct. 1948. 450 P692
- 652 JOHN, C. M., SESHADRI, C. R., and RAO, M. B. S. Dormancy of the seed in the groundnut. *Madras Agr. J.* 35: 159-167. Aug. 1948. 22 M262
- 653 JOHNSON, E. L. Response of *Kalanchoe tubiflora* to X-radiation. *Plant Physiol.* 23: 544-556. Oct. 1948. 450 P692
- 654 JONES, L. H. Soil temperature as a factor in the frencing of tobacco (*Nicotiana tabacum* L.). *Plant Physiol.* 23: 560-575. Ref. Oct. 1948. 450 P692
- 655 JONES, L. H., and TIO, M. A. Unavailability of iron as a cause of frencing of tobacco (*Nicotiana tabacum* L.). *Plant Physiol.* 23: 576-594. Ref. Oct. 1948. 450 P692
- 656 JORNLIN, F. M. The atomic bomb's effects on plants and soils. *Fert. Rev.* 23(5): 7-9, 11. Sept./Oct. 1948. 57.8 F414
- 657 KESSLER, H. Hautbräune, ein gefährlicher feind unserer lagerobstes. *Schweiz. Z. f. Obst- u. Weinbau* 57: 318-322. (To be cont.) Sept. 11, 1948. 80 Sch9
- 658 KLOTZ, L. J., and STEWART, W. S. Fruit-stem die-back reduction is extra benefit of application of 2,4-D to citrus for fruit drop control. *Calif. Agr. [Calif. Sta.]* 2(9): 7. Sept. 1948. 100 C12Cag
- 659 KOLBEL, H. Quantitative untersuchungen über die farbstoffspeicherung von acridinorange in lebeenden und toten hefezellen und ihre beziehung zu den elektrischen verhältnissen der zelle. *Z. f. Naturf.* 2b: 382-392. Sept./Oct. 1947. 474 Z3
- 660 KOLLER, P. J. Über den einfluss einer partiellen erwärmung des stengels auf die wasserversorgung. *Freiburg, Paulus*, 1947. 187 p. 463.32 K83 Inaug.-Diss.-U. Freiburg.
- 661 KOLOMIETS, I. A. Conditions for the formation of blossoming buds in the apple. (In Russian.) *Agrobiologia* 1948(2): 22-39. Ref. Mar./Apr. 1948. 20 Ag822  
Includes experiments on mineral nutrition.
- 662 KRAMER, M., and SILBERSCHMIDT, K. Human saliva as a germination inhibitor. *Science* 108: 410. Oct. 15, 1948. 470 Sci2
- 663 KUHNHOLTZ-LORDAT, G., and BARRY, J. P. De la différenciation sous l'action de l'acide 2 méthyl-4 chlorophénolacétique (M. C. P. A.). *Ann. Agron.* 18: 471-483. July/Aug. 1948. 14 An75A  
In plants.
- 664 LADEFOGED, K. Analysis of the root sap of the birch. *Plant and Soil* 1: 127-134. Ref. Aug. 1948. 450 P696
- 665 LANG, A., and MELCHERS, G. Auslösung von blütenbildung bei langtagpflanzen unter kurztagbedingungen durch aufzupfropfung von kurztagpflanzen. *Z. f. Naturf.* 3b: 108-111. Mar./Apr. 1948. 474 Z3
- 666 LANG, A., and MELCHERS, G. Vernalisation und devernalisation bei einer zweijährigen pflanze. *Z. f. Naturf.* 2b: 444-449. Ref. Nov./Dec. 1947. 474 Z3
- 667 LARUE, P. Sur la chute prématurée des pommes. *Arbres et Fruits* 30: 30. Aug. 1948. 80 Ar1
- 668 LAVOLLAY, J., and LABOREY, F. Antagonisme des effets de la thio-urée et de la coumarine sur la germination de l'orge. *Soc. de Biol. Compt. Rend.* 142: 825-826. June 1948. 442.9 P21
- 669 LEGHIS, L. M. Les hormones. *Paysan Franç.* 24(366): 8-9. June 1948. 14 P29  
Plant and animal hormones and their use.
- 670 LEVITT, J. The role of active water absorption in auxin-induced water uptake by aerated potato discs. *Plant Physiol.* 23: 505-515. Oct. 1948. 450 P692
- 671 LEYVA, F. Sintomas de desnutrición de las plantas. *Almanaque Campesino del ABC* 8(8): 35-40. Jan. 1948. 8 AL63
- 672 LIU, T. C. Cultivation of excised plumules of *Nelumbo speciosum* in vitro. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 207-210. Ref. Sept. 1948. 451 Ac1
- 673 LUK'IANENKO, P. P. Changing the nature of winter and spring wheat varieties by a change of conditions for passing through the farovization phase. (In Russian.) *Agrobiologia* 1948(2): 40-50. Mar./Apr. 1948. 20 Ag822
- 674 MCCLELLAN, W. D., STUART, N. W., and CLARK, K. G. Flower and corm production of *Gladiolus* as affected by fertilizer applications in the greenhouse and in the field. (Abs.) *Amer. Fert.* 109(4): 9. Aug. 21, 1948. 57.8 Am3
- 675 MAHAJAN, L. D. Effects of light and weather on the inversion of sucrose in the sugarcanes. *Sci. & Cult.* 14: 76-77. Aug. 1948. 475 Sci24
- 676 MARCUCCI, G. B. Ecology of the tree. (In Italian.) *Olivicoltura* 3: 8-11. June 1948. 80 OL42  
Physiological aspect.
- 677 MARIAT, F. Action des composants de l'aneurine sur le développement des embryons d'orchidées. *Soc. de Biol. Compt. Rend.* 142: 840-841. June 1948. 442.9 P21
- 678 MARKUS, R. Use of hormones in fruit growing. (In Portuguese.) *Lav. Arroz.* 2(17): 21. May 1948. 59.8 L39
- 679 MATRONE, G., and others. Studies of the biological measurement of the nutritive value of forage plants as influenced by fertilization. (Abs.) *Amer. Fert.* 109(4): 9-10. Aug. 21, 1948. 57.8 Am3  
J. A. Weybrew, W. J. Peterson, and F. W. Sherwood, joint authors.
- 680 MAXIMOV, N. A., TUREZKAYA, R. KH., and MUKHINA, M. F. Tests of the physiological activity of certain new growth substances [on plants]. *Acad. des Sci. de l'U. R. S. S. Compt. Rend. (n. s.)* 54: 655-658. 1947. 511 P444
- 681 MEACHEM, W. Plant nutrition important with new control methods. *Florist Exch.* 111(19): 21, 59-60. Nov. 6, 1948. 80 F666
- 682 MEDINA, J. C., and CORREIA, F. A. The severity of the cut in sisal and technological analysis of the fiber. (In Portuguese.) *Bragantia* 7: 207-219. Ref. Sept./Oct. 1947. 102.5 B73Tb  
English summary.
- 683 MELCHERS, G., and LANG, A. Versuche zur auslösung von blütenbildung an zweijährigen *Hyoscyamus-niger*-pflanzen durch verbindung mit einjährigen ohne gewebeverwachsung. *Z. f. Naturf.* 3b: 105-107. Mar./Apr. 1948. 474 Z3
- 684 MEULEN, E. V., and HENKE, F. Cold testing of seed corn. *Seed World* 63(7): 8, 10. Oct. 7, 1948. 61.8 Se52
- 685 MILTON, W. E. J. The buried viable-seed content of upland soils in Montgomeryshire [Wales]. *Empire J. Expt. Agr.* 16: 163-177. Ref. July 1948. 10 Em7
- 686 MOEWUS, F. Gebundener und freier wuchsstoff in der kartoffelknolle. *Z. f. Naturf.* 3b: 135-136. Ref. Mar./Apr. 1948. 474 Z3
- 687 MORTON, A. G., and WATSON, D. J. A physiological study of leaf growth. *Ann. Bot. [London] (n. s.)* 12: 281-310. Ref. July 1948. 450 An7
- 688 MOSCHLER, W. W., and PENDLETON, J. D. The effect of various fertilizer treatments on the composition of the grain from hybrid and open pollinated corn. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 72. 1948. 500 V81
- 689 MOSTAFA, M. A., and NAÏM, M. S. Stimulation of adventitious root formation by fungal metabolic products. *Nature [London]* 162: 575-576. Oct. 9, 1948. 472 N21



- 690 MUIJZENBERG, E. W. B. VAN DEN. Some green house trials with various kinds of light and radiation sources. (In Dutch.) Netherlands. Dir van de Tuinbouw. Meded. 11: 495-502. Aug. 1948. 86 N384 English summary.
- 691 MULDER, E. G. Investigations on the nitrogen nutrition of pea plants. Plant and Soil 1: 179-212. Ref. Aug. 1948. 450 P696
- 692 MÜLLER-STOLL, W. R. Beobachtungen über wuchsform und zapfenbildung bei vegetativ vermehrten fichten. Züchter 17/18: 422-430. Ref. Oct./Dec. 1947. 442.8 Z8
- 693 MUNN, M. T. Hard seeds in clovers survive 25 years' soaking. Farm Res. [N. Y. State Sta.] 14(4): 2. Oct. 1948. 100 N48A
- 694 MYERS, J., and CRAMER, M. Metabolic conditions in Chlorella. J. Gen. Physiol. 32(1): 103-110. Sept. 20, 1948. 447.8 J822
- 695 NEUMANN, J., and LAVOLLAY, J. Un effet de l'acide para-aminobenzoïque sur *Aspergillus niger*: production de substances réduisant le 2,6-dichlorophénol indophénol. Paris. Acad. des Sci. Compt. Rend. 227: 373-375. Aug. 2, 1948. 505 P21
- 696 NICHIPOROVICH, A. A. O fotosinteze rastenii [Photosynthesis in plants]. Moskva, "Pravda," 1948. 31 p. 463.34 N51
- 697 NICKELL, L. G. Heteroplastic grafts. Science 108: 389. Oct. 8, 1948. 470 Sci2
- 698 OBREGÓN BOTERO, R. Efectos de la deficiencia y el exceso de nitrógeno en las plantas. Palmira. Estac. Agr. Expt. B. de Inform. Agropecuaria 1582: 1-2. Mar. 16, 1948. 102.5 P18B
- 699 OLIVEIRA E SILVA, S. L. Notes on osmotic pressure in the plant cell: determination in *Tradescantia zebrina*. (In Portuguese.) Agronomia [Rio de Janeiro] 6: 244-259. Ref. Oct./Dec. 1947. 9.2 Ag892
- 700 ONATE, B. T., and ESPINO, R. B. Effects of photoperiod upon the upland rice plant variety Inintiw. Philippine Agr. 31: 256-270. Apr./June 1948. 25 P542
- 701 PAIXAO, J. DA C. Vegetable hormones; their application to agriculture. (In Portuguese.) Lavoura 52: 5-7. Mar./Apr. 1948. 9.2 L39
- 702 PEARSON, I. A., and others. Studies on the behavior of fungi in the presence of radioactive isotopes. J. Bact. 56: 397-402. Oct. 1948. 448.3 J82
- J. M. Hammer, K. E. Corrigan, and H. S. Hayden, joint authors.
- 703 PEGLION, V. Temperature and reproduction in sugar beets. (In Italian.) Indus. Sac. Ital. 41: 99-103. May/June 1948. 65.8 In23
- 704 PENFOUND, W. T., and EARLE, T. T. The biology of the water hyacinth. Ecol. Monog. 18: 447-472. Ref. Oct. 1948. 410 Ec72
- 705 PEROTTI, R. The danger from toxic gaseous emanations to vegetation in the light of new information and criteria for evaluation. (In Italian.) Pisa. U. Osserv. Region. di Fitopat. [Mem.] 215: 35-50. 1947. 464.9 P69
- 706 PHILIPP, F. Vitamine, hormone, spurenelemente. (Die reagenzien der gesundheit.) Gartenbauwirtschaft 1947(8): 3-4; (9): 3-6. Aug.-Sept. 1947. 80 G1922
- 707 PIACCO, R. Influence of mud deposited on rice seed on its germination. (In Italian.) Riscicoltura 35: 99-101. May 1947. 59.8 G43
- 708 PRASAD, S. Effect of pruning and exfloration on the growth and alkaloidal content of *Datura metel* Linn. Amer. Pharm. Assoc. J. Sci. Ed. 37: 346-349. Ref. Sept. 1948. 396.9 Am33J
- 709 PRESLEY, J. T., and LEONARD, O. A. The effect of calcium and other ions on the early development of the radicle of cotton seedlings. Plant Physiol. 23: 516-525. Ref. Oct. 1948. 450 P692
- 710 QUILCHINI, R. Sur les substances de réserve et leurs transformations pendant la germination chez quelques graines de Légumineuses. Paris. Acad. des Sci. Compt. Rend. 227: 362-363. Aug. 2, 1948. 505 P21
- 711 RAALTE, VAN. Periodicity in plants. (In Flemish.) Cult. en Handel 14: 563-565, 634-636. Sept.-Oct. 1948. 80 C892
- 712 RAINBOW, C. p-Aminobenzoic acid a growth-factor for certain brewer's yeasts. Nature [London] 162: 572-573. Oct. 9, 1948. 472 N21
- 713 RAYNER, R. W., and JONES, P. A. Tonic copper spraying. Kenya. Coffee Bd. Monthly B. 13: 20-21. Feb. 1948. 68.29 C652
- 714 RAYNS, F. The production of protein at home. VI. Protein from the root crops. Farming [Norwich] 2: 262-265. Sept. 1948. 10 F2236
- 715 REINHOLZ, E. Röntgenmutationen bei *Arabidopsis thaliana* (L.) Heynh. Naturwissenschaften 34: 26-28. Ref. 1947. 474 N213
- 716 RÍOS B., B., and SAETTONE G., C. Absorción de elementos minerales y diversión de los mismos en el curso del desarrollo del algodón Tanguis. Co. Admin. del Guano, Peru. B. 24: 27-47. Ref. Feb. 1948. 57.9 C73B
- 717 RITTERBUSCH, G. Plant hormones. S. Dak. State Hort. Soc. Ann. Rpt. (1947/48) 45: 44-45. 1948. 81 So86
- 718 RIVERA, V. Influence of metal deficiencies in the solution of metabolic activity of some plants. (In Italian.) Ricerca Sci. 18: 605-606. May/June 1948. 475 It1
- 719 ROBERTS, E. A., and SOUTHWICK, M. D. Contribution of studies with the electron microscope to studies of the relationship of chromoplasts to carotene bodies and carotene bodies to vitamin A. Plant Physiol. 23: 621-633. Ref. Oct. 1948. 450 P692
- 720 ROBERTS, E. A., SOUTHWICK, M. D., and PALMITER, D. H. A microchemical examination of McIntosh apple leaves showing relationship of cell wall constituents to penetration of spray solutions. Plant Physiol. 23: 557-559. Ref. Oct. 1948. 450 P692
- 721 RODDENBURG, J. W. M. The applicability of different light sources for stimulation of the growth of glasshouse-plants. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 522-528. Aug. 1948. 86 N384 English summary.
- 722 ROSSGER, W. Versuche zur klärung der ursache des platzens der kohlrabiknollen. Züchter 17/18: 415-421. Oct./Dec. 1947. 442.8 Z8
- Chiefly physiological effect of cold.
- 723 ROTHSTEIN, A., and MEIER, R. The relationship of the cell surface to metabolism. I. Phosphatases in the cell surface of living yeast cells. J. Cell. & Compar. Physiol. 32(1): 77-95. Ref. Aug. 1948. 444.8 J822
- 724 SAÏD, H. Effect of phosphorus on the hydrolysis and absorption of sucrose by plant cells. Nature [London] 162: 496. Sept. 25, 1948. 472 N21
- 725 SANTOS RUIZ, A., and DEAN, M. Oligoelementos respiratorios. Ion 8: 389-394. (Cont.) June 1948. 385 Io6
- Minerals in plant and animal nutrition.
- 726 SAYRE, C. B. Hardening plants with potash. Farm Res. [N. Y. State Sta.] 14(4): 5. Oct. 1948. 100 N48A
- 727 SCARSETH, G. D. In higher gear with the season. Ohio Farm Bur. News. 28(2): 10, 24. Sept. 1948. 6 Oh34
- Effect of temperature and length of season on growing crops.
- 728 SCHAAL, L. A. Red skin color of Bliss Triumph potatoes increased by the use of synthetic plant hormones. Science 108: 411. Oct. 15, 1948. 470 Sci2
- 729 SCHÜEPP, W. Ein phänologisches experiment mit *Forsythia*. Leben u. Umwelt 4: 279-284. Sept. 1, 1948. 410 L49
- 730 SCHUFFELEN, A. C. Growth substance and ion absorption. Plant and Soil 1: 121-126. Ref. Aug. 1948. 450 P696
- 731 SELL, H. M., TAYLOR, B. M., and LUCAS, E. H. An improved method for the preparation of the antibacterial oil from *Allium sativum* L. Mich. Agr. Expt. Sta. Q. B. 31: 65-70. Ref. Aug. 1948. 100 M58S
- 732 SHEAR, G. M. The importance of minor elements in plant nutrition. (Abs.) Va. Acad. Sci. Proc. 1947/48: 66-67. 1948. 500 V81
- 733 SHELTON, V. L., BLUE, W. G., and ALBRECHT, W. A. Diversity of amino acids in legumes according to the soil fertility. Science 108: 426-428. Oct. 22, 1948. 470 Sci2
- 734 SHEWELL-COOPER, W. E. This keeps the apples on the trees. Smallholder 80(2009): 13. Oct. 1, 1948. 10 Sm1
- Growth regulating substances.
- 735 SILVELA Y DE TORDESILLAS, F. Iniciación al estudio del rendimiento unitario y calidad de los trigos en relación con el régimen de humedad. Spain. Inst. Nac. de Invest. Agron. B. 18: 181-188. June 1948. 105.6 Sp14
- English, French, and German summaries.



- 736 SMITH, D., and GRABER, L. F. The influence of top growth removal on the root and vegetative development of biennial sweetclover. *Amer. Soc. Agron. J.* 40: 818-831. Sept. 1948. 4 Am34P
- 737 SMITH, W. P. C., and HARVEY, H. L. Zinc deficiency of flax. *West. Austral. Dept. Agr. J.* (ser. 2) 25: 136-142. June 1948. 23 W52J
- 738 SORTEBERG, A. Minor element deficiency diseases of plants. (In Norwegian.) *Norsk Myreselskap Meddel.* 46: 79-90. Aug. 1948. 11 N813
- 739 SPARROW, F. K., and PEARSON, N. L. Pollen compatibility in *Asclepias syriaca*. *J. Agr. Res.* 77: 187-199. Ref. Sept. 15, 1948. 1 Ag84J
- 740 STEFFEN, K. Anwendung der feulgenschen nuclealreaktion bei pollenschlauchkulturen. *Z. f. Naturf.* 2b: 451-452. Ref. Nov./Dec. 1947. 474 Z3
- 741 STEWART, W. S. Abscission; chemical control of shedding or dropping of plant parts. *Calif. Agr. [Calif. Sta.]* 2(9): 6, 15. Sept. 1948. 100 C12Cag
- 742 STRAUB, J. Zur entwicklungsphysiologie der selbststerilität von *Petunia*. II. Das prinzip des hemmungsmechanismus. *Z. f. Naturf.* 2b: 433-444. Nov./Dec. 1947. 474 Z3
- 743 SWARBRICK, T. Plant growth regulating substances. *New Biol.* 5: 47-67. 1948. 442.8 J63
- 744 TALLARICO, G. Natural salts in plants, particularly in vegetables. (In Italian.) *Gior. di Agr.* 58: 237-238. Sept. 5, 1948. 16 It1G
- 745 THOMAS, G. M., and STADEL, E. L. Increasing survival of planted conifers with S/V Ceremul C. *J. Forestry* 46: 764-766. Oct. 1948. 99.8 F768
- 746 THOMPSON, R. C. "Progress" tackles tipburn: new ready-to-release cousin of Imperial 44 lettuce proves resistant to tipburn damage. *South. Seedsman* 11(10): 13, 53. Oct. 1948. 61.8 So8
- 747 THORNE, D. W., and WANN, F. B. Manganese deficiency: a new plant nutrient problem in Utah. *Farm & Home Sci. [Utah Sta.]* 9(3): 5, 11-12. Sept. 1948. 100 UtlF
- In orchards.
- 748 TINCKER, M. A. H. Growth regulators; the use of plant hormones. *Farming [Norwich]* 2: 277-281. Sept. 1948. 10 F2236
- 749 VAN NORMAN, R. W., FRENCH, C. S., and MACDOWALL, F. D. H. The absorption and fluorescence spectra of two red marine algae. *Plant Physiol.* 23: 455-466. Ref. Oct. 1948. 450 P692
- 750 VILLEY, M. Rôle de l'eau du substrat sur le développement du *Coriolus versicolor* (L.) Quel. (= *Polyporus versicolor*). *Soc. de Biol. Compt. Rend.* 142: 718-723. June 1948. 442.9 P21
- 751 WADLEIGH, C. H., and GAUCH, H. G. Rate of leaf elongation as affected by the intensity of the total soil moisture stress. *Plant Physiol.* 23: 485-495. Ref. Oct. 1948. 450 P692
- 752 WALTER, E. M., and NELSON, J. M. Enzyme studies in plant respiration. *New York*, 1947. 48 p. Ref. 463.34 W17
- Thesis—Columbia Univ.
- 753 WASSINK, E. C. Licht als factor in planten-fysiologisch onderzoek [Light as a factor in plant physiology]. *Wageningen, Veenman*, 1948. 17 p. 463.34 W28
- 754 WASSINK, E. C. The light factor in photosynthesis in relation to other environmental factors. (In Dutch.) *Netherlands. Dir van de Tuinbouw. Meded.* 11: 503-513. Ref. Aug. 1948. 86 N384
- English summary.
- 755 WASSINK, E. C. Photosynthesis. *Ann. Rev. Biochem.* 17: 559-578. Ref. 1948. 381 An7
- 756 WEINMANN, H. Investigations on the underground reserves of South African grasses. *So. African Sci.* 2: 12-15. Aug. 1948. 475 So8
- 757 WEINMANN, H. Underground development and reserves of grasses. *Brit. Grassland Soc. J.* 3: 115-140. Ref. June 1948. 60.19 B773
- 758 WILFLINGER, H. Pflanzenleben. *Gartenbau-wirtschaft* 1947(5): 7-8; (6): 607; (7): 7-8; (8): 8; (10): 8; (12): 7-8. (Cont.) May-Aug., Oct., Dec. 1947. 80 G1922
- 759 WILSON, J. K. An examination of the exudate and juice of certain fungi found in their native environment. *Mycologia* 40: 605-613. Ref. Sept./Oct. 1948. 450 M99
- 760 WISEMAN, J. Plant growth substances. *Brit. Chem. Digest* 2: 383-385. Sept. 1948. 382 B774
- 761 YUILL, J. L. Production of i-erythritol by *Aspergillus niger*. *Nature [London]* 162: 652. Oct. 23, 1948. 472 N21
- 762 ZIMMERMAN, P. W., and HITCHCOCK, A. E. Plant hormones. *Ann. Rev. Biochem.* 17: 601-626. Ref. 1948. 381 An7

## BIOCHEMISTRY

- 763 ANCHEL, M. The chemical nature of "cassic acid": its identification as rhein. *Torrey Bot. Club. B.* 75: 580. Sept./Oct. 1948. 451 T63B
- 764 ANDRÉ, M. E., and KOGANE-CHARLES, M. Sur les composés sulfurés volatils préformés contenus dans les graines de diverses crucifères et dans les hules qu'on en retire. 2. *Ann. Agron.* 18: 462-470. July/Aug. 1948. 14 An75A
- 765 BARR, C. G. Investigations on the fluorometric determination of malic and succinic acids in apple tissue. *Plant Physiol.* 23: 443-454. Ref. Oct. 1948. 450 P692
- 766 BHAR, C. Crystalline components of the *Heracleum nepalense* (N. O. Umbelliferae). *I. Indian Chem. Soc. J.* 25: 139-144. Mar. 1948. 385 In27
- 767 BISWAS, H. G. A note on the saponin from *Sapindus laurifolius*, Vahl. *Indian Chem. Soc. J.* 25: 151-152. Mar. 1948. 385 In27
- 768 BOUFFIL, P. Recherches biologiques et biochimiques sur le bananier. (Abs.) *Ann. des Sci. Nat., Bot. et Biol. Vég.* (ser. 11) 8: 316. 1947. 450 An75
- 769 BOYLE, F. P. Some factors involved in oxygen evolution from triturated spinach leaves. *Science* 108: 359-360. Oct. 1, 1948. 470 Sci2
- 770 BRAUN, H. Über solanin-anreicherungen in kartoffelknollen. *Beitr. z. Agrarwiss.* 2: 61-75. Ref. 1948. 18 B392
- 771 BUZULIN, G. S. Change of vitamin C content in the fruits of grafted tomatoes. (In Russian.) *Tsent. Genet. Plodovo-ĖAgodnaĖa Lab. im. I. V. Michurina. Nauch. OtcĖt* 1941/1942: 213-214. 1947. 87 T78
- 772 CAMERON, J. W., and TEAS, H. J. The relation between nicotinic acid and carbohydrates in a series of maize endosperm genotypes. *Natl. Acad. Sci. Proc.* 34: 390-398. Ref. Aug. 1948. 500 N21P
- 773 CHAKRAVARTI, D., and KUNDU, N. Chemical investigation of the bark of *Prunus acuminata*. *Sci. & Cult.* 14: 36. July 1948. 475 Sci24
- 774 CHAKRAVARTI, K. K., BOSE, A. K., and SIDDIQUI, S. Chemical examination of the seeds of *Psoralea corylifolia* Linn. (Babehi). *J. Sci. & Indus. Res.* 7B: 24-26. Feb. 1948. 475 J82
- 775 CHENERY, E. M. Further notes on aluminium in trees. *Empire Forestry Rev.* 27: 129-130. July 1948. 99.8 Em72
- 776 COOIL, B. J., and SLATTERY, M. C. Effects of potassium deficiency and excess upon certain carbohydrate and nitrogenous constituents in guayule. *Plant Physiol.* 23: 425-442. Ref. Oct. 1948. 450 P692
- 777 COOIL, B. J. Potassium deficiency and excess in guayule. II. Cation-anion balance in the leaves. *Plant Physiol.* 23: 403-424. Ref. Oct. 1948. 450 P692
- 778 DAVIES, A. W., EVANS, R. A., and EVANS, W. C. Studies on the biochemistry of pasture plants. 1. A new technique for the preparation and preservation of herbage samples. *Brit. Grassland Soc. J.* 3: 153-158. Ref. June 1948. 60.19 B773
- 779 DAWSON, R. F. The alkaloids. *Ann. Rev. Biochem.* 17: 541-558. Ref. 1948. 381 An7
- Cinchona and Nicotiana.
- 780 DE JONG, A. W. K. The change in the composition of the cocaine in Java coca leaves during their growth; the acids of the esters of l-nor-ecgonine from coca leaves. *Rec. des Travaux Chim. des Pays-Bas* 67: 484-488. July/Aug. 1948. 385 R24
- 781 DURAISWAMI, S., and SUBRAMANIAM, M. K. Preliminary observations on the nicotinic acid content of diploid and tetraploid yeasts. *J. Sci. & Indus. Res.* 7B: 129-130. Aug. 1948. 475 J82
- 782 EYME, J. Sur la présence d'oxalate de calcium dans la cellule des Bryophytes. *Paris. Acad. des Sci. Compt. Rend.* 227: 441-442. Aug. 18, 1948. 505 P21
- 783 GHOSE, T. P., and KRISHNA, S. Tamarind-seed pectin. *Indian J. Agr. Sci.* 16: 410-412. Aug. 1946, pub. 1947. 22 Ag83I
- 784 GOKHALE, V. G., PHALNIKAR, N. L., and BHIDE, B. V. Chemical investigation of the fruits of *Piper longum* (Linn). *Bombay. U. J., Sect. A, Phys. Sci.* (n. s.) 16(5): 47-52. Mar. 1948. 513 B633



785 HVIDSTEN, H. The composition of red clover and timothy at various stages of growth. (In Norwegian.) Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Fôringslære. Særtrykk 54, 42 p. Oslo, 1947. 389.79 N76

English summary.

786 JOHANSON, R. The cystine plus cysteine and methionine contents of the seed proteins, and sulphur distributions of seeds of *Vicia* spp. (vetches), with notes on their cyanogenesis. Austral. J. Expt. Biol. & Med. Sci. 26: 259-270. July 1948. 442.8 Au7

787 LEGRAND, G. Sur la présence d'une orthodiphénolase accompagnée d'un phénol dans l'artichaut. Paris. Acad. des Sci. Compt. Rend. 227: 600-601. Sept. 20, 1948. 505 P21

789 MANGENOT, G., REBIFFE, J., and ROUDIER, A. Sur le mucilage du gui. Paris. Acad. des Sci. Compt. Rend. 227: 439-441. Aug. 18, 1948. 505 P21

789 MARION, L., and TURCOTTE, F. The papilionaceous alkaloids. IV. *Baptisia perfoliata* (L.) R. Br. Amer. Chem. Soc. J. 70: 3253-3254. Oct. 1948. 381 Am33J

790 MARION, L., and COCKBURN, W. F. The papilionaceous alkaloids. V. *Baptisia minor*, Lehm. Amer. Chem. Soc. J. 70: 3472-3474. Oct. 1948. 381 Am33J

791 MARION, L., and FENTON, S. W. The papilionaceous alkaloids. VI. *Lupinus pusillus*, Pursh. J. Organic Chem. 13: 780-781. Sept. 1948. 381 J827

792 MARTINI-BETTOLO, G. B. Chemical study of the composition of *Polycladus abietinus* Philippi. (In Italian.) Ricerca Sci. 18: 627-628. May/June 1948. 475 It1

793 MIROV, N. T. The terpenes (in relation to the biology of genus *Pinus*). Ann. Rev. Biochem. 17: 521-540. Ref. 1948. 381 An7

793 PETIT, L., and PINON, H. Répartition des vitamines B1, B2 et PP, dans le plant de blé en croissance et dans le grain, de la fécondation à la maturité-teneur en vitamine B1 d'échantillons de blé français. (Sum.) Meun. Franç. 1948(25): 42. July 1948. 298.8 M57

795 PLOUVIER, V. Sur l'étude biochimique comparée de quelques Oléacées. Paris. Acad. des Sci. Compt. Rend. 227: 604-606. Sept. 20, 1948. 505 P21

796 PRATT, H. K., YOUNG, R. E., and BIALE, J. B. The identification of ethylene as a volatile product of ripening avocados. Plant Physiol. 23: 526-531. Ref. Oct. 1948. 450 P692

797 SMALL, J., and JACKSON, T. Relative buffer-index values for root saps of some crop plants. J. Agr. Sci. [London] 38: 343-344. July 1948. 10 J822

798 TAYEAU, F., and MASQUELIER, J. Recherches sur les pigments de la graine d'arachide. I. Mise en évidence d'un chromogène. Paris. Acad. des Sci. Compt. Rend. 227: 602-604. Sept. 20, 1948. 505 P21

799 TUBANGUI, M. A., and BASACA, M. Notes on the anthelmintic properties of the latex of papaya (*Carica papaya* Linn.) and of "isis" (*Ficus ulmifolia* Lam.). Philippine J. Sci. 77: 19-24. Ref. May 1947. 475 P53

800 WEBB, L. J. Alkaloids in Queensland *Cryptocarya* spp. Austral. J. Sci. 11: 26-27. Aug. 1948. 475 Au72

801 YOUNGKEN, H. W., and HASSAN, W. E., JR. Studies on the camphor basil, *Ocimum kilimandscharicum* Gürke. Amer. Pharm. Assoc. J. Sci. Ed. 37: 360-363. Sept. 1948. 396.9 Am33J

## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

### General

802 AHLGREN, H. L., and GRABER, L. F. Safe-guarding new seedlings. Wis. Agr. Col. Ext. C. 300, rev., 8 p. Mar. 1948. 275.29 W75C

Field crops.

803 AZZI, G. Climoscopios. Agronomia [Lima] 12(52): 55-87. (Concl.) Oct./Dec. 1947. 9.8 Ag83

Climate in relation to crop production.

804 BAUR. Sortenversuchsergebnisse auf den Graf von Rechberg'schen domänen. Württemb. Wchnbl. f. Landw. 115: 232-233, 241-242. Aug. 28-Sept. 4, 1948. 18 W96

805 BISHOP, J. C. Pelleted seed for row crops. West. Grower & Shipper 19(10): 17, 43. Sept. 1948. 280.38 W52

806 COWLEY, H. Fall is the time to plan your crop rotation. U & I Cult. 8(2): 14. Sept. 1948. 66.8 V12

807 DANIEL, H. A. Flexible patterns for prairie farms. Co-op Grain Q. 6(3): 24-30. Aug. 1948. 59.8 G763

808 DONÁ DALLE ROSE, A. Allophylus. (In Italian.) Gior. di Agr. 58: 231. Aug. 29, 1948. 16 It1G

For saline soils.

809 DORPH-PETERSEN, K. Plot arrangement in field experiments. (In Danish.) Tidsskr. for Planteavl 52(1): 110-175. 1948. 11 T439

English summary.

810 FOUREGEAUD, J. La désinfection des semences. Défense Agr. de la Beauce et du Perche 45: 250. Sept. 20, 1948. 14 D36

Field crops.

811 GRADOV, A. Restoration of upset crop rotation systems. (In Russian.) Kolkhoz. Proizvod. 8(5): 19-21. May 1948. 281.8 K83

812 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Guide to agronomy experiments. Ill. Agr. Col. Ext. Ag1336, 9 p. 1947. 275.29 IL62Pag

813 INDIANA. AGRICULTURAL EXPERIMENT STATION. First annual summer agricultural conference. Recent results of experimental work. Lafayette, 1948. 9 p. 276 P97P

814 JOSEFSSON, A. Combined variety- and nitrogen dressing trials with root crops, performed at the Swedish Seed Association in the years 1927-1945. (In Swedish.) Sveriges Utsädesför. Tidskr. 58: 91-131. 1948. 61.9 Sv23

English summary.

815 KAMMERLOHR, K. Der drusch von hülsenfrüchten. Landw. Wchnbl. 138: 197-198. Aug. 14, 1948. 18 L2338

816 KEZER, A. Fifty years of crop improvement. West. Farm Life 50(17): 4, 32, 34, 35. Sept. 1, 1948. 6 R153

817 LEVAN, A. Scandinavian polyploid breeding of field crops. (In Swedish.) Nord. Jordbrugsforsk. 1948: 468-490. 11 N752

818 MA, R. H., and HARRINGTON, J. B. The standard errors of different designs of field experiments at the University of Saskatchewan. Sci. Agr. 28: 461-474. Ref. Oct. 1948. 7 Sci2

819 MOORE, H. I., and SMYTHE, R. H. Ley farming. I-II. Vet. Rec. 60: 406-410. Aug. 21, 1948. 41.8 V641

820 MUSHKO, A. What results from the additional artificial pollination of plants [field crops]. (In Russian.) Kolkhoz. Proizvod. 8(5): 15-18. May 1948. 281.8 K83

821 NATIONAL INSTITUTE OF AGRICULTURAL BOTANY. Key to varieties of field and vegetable crops under trial, observation and propagation, 1948. Cambridge, England, 1948. 53 p. 103 N21G

822 OLTSMANN, W. Erbsenanbau mit hafer als stützfrucht. Neue Mitt. f. die Landw. 3: 83. Mar. 21, 1948. 18 N39

823 PEHL, P. Mehr stoppelfutter—aber wie? Neue Mitt. f. die Landw. 3: 99-100. Apr. 5, 1948. 18 N39

824 PEREGUDOV, V. N. Statisticheskije metody obrabotki dannikh polevogo opyta [Statistical methods of interpreting field experiment data]. Moskva, Sel'khozgiz, 1948. 293 p. 251 P41

825 POLAK, B. Observations on the growth of crop plants on peat land. (In Dutch.) Landbouw 20: 248-264. June/July 1948. 22.5 L23

826 SAMOILOV, I. I. Sistema udobreniya v polevykh i ovoshche-kormovykh travopol'nykh sevooborotakh [Fertilization system in the field: vegetable and forage crop rotations]. Leningrad? Leningradskoe Gazetno-Zhurnal'noe i Knizhnoe Izd-vo, 1947. 97 p. 57.7 Sa4

827 SOLERIO, P. Rotating pastures. (In Italian.) Ital. Vinic. ed Agr. 38: 89-90, 102-103. Apr. 30-May 15, 1948. 95.8 It1

828 TROW-SMITH, R. Harvest, 1948. Farmer & Stock-Breeder 62: 1964-1966. Aug. 24, 1948. 10 F228

In Great Britain.

829 VASQUEZ HUMASQUE, A. Ventana al campo lagunero. Agr. Lagunero 3(27, i. e. 26): 14-15. June/July 1948. 8 Ag824

Field crops.



830 VIGIANI, D. Coltivazioni erbacee [Culture of field crops]. Ed. 7. Genova, Alighieri, 1947. 372 p. (Trattato di Agraria, 2) 64 V68

831 WHITLOW, S. Convert land quickly. Rice News 15(9): 5. Sept. 1948. 59.8 R362  
Rotation of crops.

#### Cereals

832 ALBERTS, H. W. La quinoa (Chenopodium quinoa). Co. Admin. del Guano, Peru. B. 24: 55-59. Apr. 1948. 57.9 C73B

833 ALCOVER, M. Time of planting wheat. (In Portuguese.) Colheitas e Mercados 4(3/6): 15-16. Mar./June 1948. 255.3 Sa652

834 ANDRADE SOBRINHO, J. DE Production of hybrid corn seeds. (In Portuguese.) Colheitas e Mercados 4(3/6): 41-43. Mar./June 1948. 255.3 Sa652

835 AUSEMUS, E. R. A machine for tying cereal nursery bundles. Amer. Soc. Agron. J. 40: 851-852. Sept. 1948. 4 Am34P

For use in experimental plots.

836 BALDONI, R. Mixed plantings of wheat varieties. (In Italian.) Humus 3(8): 18-19. Aug. 1947. 16 H88

837 BHOJAKARA, P., and TSASANA, Y. S. A compilation of the results of experimental work on rice. Bangkok, Dept. of Agr., 1947. 88 p. 59.24 B46

838 BILQUEZ, A. F. L'hybride blé-chiendent et son intérêt pour la France. Agriculture [Paris] 12: 293-295. Sept. 1948. 14 Ag823

839 BJAANES, M. Winter grain culture increases bread grain production. (In Norwegian.) Norsk Landbr. 14: 291-293. Aug. 6, 1948. 11 N8122

840 BOWERS, J. L., and others. Sweet corn tests show hybrids adapted to Mississippi. Miss. Farm Res. [Miss. Sta.] 11(9): 2-3. Sept. 1948. 100 M69Mi  
T. E. Ashley, J. A. Campbell, M. T. Deonier, L. R. Farish, and O. Sheets, joint authors.

841 BRAUN, O. Los cereales y el trigo tropical "adley." Campo [La Paz] 2(12): 67-69. Apr. 1948. 9.1 C15

842 BURNETT, L. C. A new winter wheat for Iowa. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 3(3): 3. Sept. 1948. 275.28 Io94

843 CALMA, V. C., and PAGUIO, M. D. The performance of five varieties of lowland rice. Philippine Agr. 31: 298-304. Apr./June 1948. 25 P542

844 CHÁVEZ VIAUD, A. Experimento cooperativo para determinar el efecto de la fertilidad y rotación sobre la producción de maíz y caña. Café de El Salvador 208: 649-652. Aug. 1948. 68.28 C112

845 CHRISTENSEN, J. Winter grain seeding. (In Danish.) Dansk Landbr. 67: 337-338. Sept. 9, 1948. 280.28 V91

846 CERIGHELLI, R. La fertilité des pays tropicaux et le rendement des rizières. Marseille. Inst. Colon. Cahiers Colon., n. s., 1948: 220-228. June/July 1948. 286.8 M35

847 CONTI, G. The wheat problem in Apulia and Lucania. Results of a twenty years selection. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 319-356. 1948. 16 An76  
English summary.

848 CROSBY, J. Tulare Lake's bumper grain crop. Calif. Farmer, North. Ed. 189: 308-309. Oct. 9, 1948. 6 C126

849 DAALLEN, C. K. VAN. Corn breeding. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandbl. 5: 376-378. Aug. 1948. 12 N383M

850 DENAMUR, P., and GOUVERNET, R. Possibilités de culture de riz en France. Prog. Agr. et Vitic. 1948: 126-130, 149-158. Sept. 5/12-19/26, 1948. 14 P94

851 EFFERSON, J. N. Report from Japan. Rice News 15(9): 4, 8-9. Sept. 1948. 59.8 R362

852 ENGE, G. Field tests 1947. (In Swedish.) Kalmar Läns Norra Hushållningssällsk. Kvrtlsskr. 8(1): 6-17. 1948. 11 K12

#### Grain.

853 FONDARD, L. Les bons blés en Provence. Réveil Agr. 57: 241-242. Aug. 15, 1948. 14 R322

854 GADD, I. Winter grain prospects. (In Swedish.) Lantmannen 32: 655. Oct. 2, 1948. 11 L234

855 GARRISON, C. S., and BAYLOR, J. E. Tips on growing spring oats. N. J. Agr. Col. Ext. Leaflet 14, 8 p. Mar. 1948. 275.29 M46L

856 GASCON PELEGRI, V. La plantación del arroz. Siembra 1948(7): 16-17. July 1948. 15 S11  
Spain.

857 GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Oat production in south Georgia. Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 57, 2 p. Sept. 10, 1948. 100 G292M

858 GREEN, J. M. Oat varieties for Mississippi Delta. Miss. Farm Res. [Miss. Sta.] 11(9): 6. Sept. 1948. 100 M69Mi

859 GREEN, J. M. Wheat has two advantages over oats, tests show. Miss. Farm Res. [Miss. Sta.] 11(9): 7. Sept. 1948. 100 M69Mi

Winter-hardiness and tolerance to 2,4-D.

860 GUPTA, P. S., and MITRA, A. K. Double cropping of rice as a means of increasing production. Indian Farming 9: 96-98. Mar. 1948. 22 In283

861 GUPTA, P. S., and MITRA, A. K. Improved varieties of table rices in the United Provinces. Indian Farming 9: 151-153. Apr. 1948. 22 In283

862 HANSEN, J. Experiments with varieties of two-rowed barley 1931-1946. (In Danish.) Denmark. Statens Forsøgsvirks. I Plantekultur, Beret. 407: 480-499. 1948. 11 D412

863 HOLBERT, B. Mexico looks to hybrid corn. Ill. Agr. 53: 4, 11. Oct. 1948. 6 IL6

864 INDIANA. AGRICULTURAL EXPERIMENT STATION. Summary 1947 corn demonstrations. Ind. Agr. Expt. Sta. Agron. Mimeog. AY 118, 8 p. 1948? 100 In2Agr

865 INNES, D. A new wheat for the West? Red Thatcher looks like good bet for prairies. Saskatchewan Farmer 39(18): 14, 15. Sept. 16, 1948. 7 Sa74

866 JENSEN, I. Selection of wheat variety. (In Danish.) Tolvmandsbladet 20: 187-188. Sept. 1948. 11 T58

867 JUGENHEIMER, R. W., LENG, E. R., and WOODWORTH, C. M. Illinois experimental hybrid corn tests, 1946. Ill. Agr. Col. Ext. AG1331, 13 p. Apr. 1947. 275.29 IL62Pag

868 JUGENHEIMER, R. W., and others. Illinois experimental hybrid corn tests, 1947. Ill. Agr. Col. Ext. AG1354, 18 p. Jan. 1948. 275.29 IL62Pag  
L. F. Bauman, E. R. Leng, and C. M. Woodworth, joint authors.

869 JUGENHEIMER, R. W., LENG, E. R., and WOODWORTH, C. M. Performance of inbred lines and single crosses of corn, 1946. Ill. Agr. Col. Ext. AG1334, 24 p. Apr. 1947. 275.29 IL62Pag

870 JUGENHEIMER, R. W., and others. Performance of inbred lines and single crosses of corn, 1947. Ill. Agr. Col. Ext. AG1352, 22 p. Jan. 1948. 275.29 IL62Pag

L. F. Bauman, E. R. Leng, and C. M. Woodworth, joint authors.

871 KLAGES, K. H. Timing winter wheat important. Wash. Farmer 73: 690. Sept. 16, 1948. 6 R151

872 KLINGMAN, D. Plant the right wheat varieties for Wyoming. Wyo. Agr. Expt. Sta. C. 31, 4 p.-folder. Feb. 1948. 100 W99

873 KLINGMAN, D. Plant these oat and barley varieties in Wyoming. Wyo. Agr. Expt. Sta. C. 32, 4 p.-folder. Mar. 1948. 100 W99

874 KOPEL'KIEVSKII, G. For high yields of buckwheat. (In Russian.) Kolkhoz. Proizvod. 8(5): 22-23. May 1948. 281.8 K83

Agricultural practices at the Shatilovskafä Selektion-nafä Stanfsifä.

875 KORZHAVINA, E. New gymnospermous varieties of oats and barley. (In Russian.) Kolkhoz. Proizvod. 8(5): 40. May 1948. 281.8 K83

876 KUBLAN, A. Der hirseanbau. Kurzbrieft. Ernähr. u. Landw. 8, A II 4, 4 p. Aug. 1948. 281.8 K96

877 KUDRIAVTSEVA, N. Soviet oat variety. (In Russian.) Kolkhoz. Proizvod. 8(5): 27. May 1948. 281.8 K83

878 LECOURT, B. La vulgarisation dans le sud marocain. Terre Maroc. 17: 399-401. Nov. 1947. 24 T44

Barley and wheat culture.

879 LEE, S. Y., and CHAN, S. Y. Rice cultivation in Hong Kong. Food & Flowers 1(2): 1-13. June 1948. 80 F73

880 LEWICKI, S. The forming of regions and standardization as rational bases for the raising of cereals production in Poland. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E 2: 173-208. Ref. 1947. 512 L96Ae

English summary.



- 881 LIDEN, C. H. Was your grain crop poor? *Md. Farmer* 32(9): 11. Sept. 1948. 6 M362  
Yield in Maryland.
- 882 LOVE, H. H., JENSEN, N. F., and KENT, G. C. Research continues to improve New York oat production. *Farm Res. [N. Y. State Sta.]* 14(4): 6. Oct. 1948. 100 N48A
- 883 LOWERY, J. C. 1947 corn demonstration results in Alabama. *Victory Farm Forum* 1948(32): 10-11. Sept. 1948. 281.8 F226
- 884 LUDOLF, A. DE M. Rice culture. (In Portuguese.) *Agronomia [Rio de Janeiro]* 6: 261-303. Oct./Dec. 1947. 9.2 Ag892
- 885 LYSENKO, T. D. Winter wheat—on the fields of Siberia. (In Russian.) *Agrobiologičeskij* 1948(2): 3-9. Mar./Apr. 1948. 20 Ag822
- 886 MCKINNEY, J. How they grow that 100-bushel corn. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(10): 17, 129. Oct. 1948. 6 So81
- 887 MCNEAL, X. Germination of artificially dried oats. *Rice J.* 51(9): 14. Sept. 1948. 59 R36
- 888 MAHER, R. E. El Campo boom. *Rice News* 15(9): 3, 10. Sept. 1948. 59.8 R362
- 889 MANELL, E. Prepare favorable growth conditions for the winter grain crops. (In Swedish.) *Lantmannen* 32: 559, 563. Aug. 21, 1948. 11 L234
- 890 MARSTON, R. Research and experience of hybrid corn. *Natl. Assoc. Mutual Ins. Co. Proc. & Papers* 51(2): 323-337. 1947. 284.69 N19
- 891 MATSUO, T. Comparative study on the characteristics of rice plants of the world. 3. *Japan Fert. Weekly* 66: 2-3. July 28, 1948. 57.8 F417
- 892 MEISNER, F. Sortenfrage im wintergetreideanbau. *Bad. Landw. Wchbl.* 3: 126-127. Aug. 28, 1948. 18 B142
- 893 MELGAR, H. (HIJO). Maíz socorro. *Campo [La Paz]* 2(12): 41-42. Apr. 1948. 9.1 C15
- 894 MIALLET, A. A propos de la culture du riz. *Bouches du Rhône Agr.* 21(985): 2. Sept. 1, 1948. 14 B662
- 895 MILES, S. R. Certified corn hybrids for Indiana. *Ind. Agr. Expt. Sta. Agron. Mimeog.* AY 119, 2 p. Feb. 1948. 100 In2Agr
- 896 MINISCALCO, V. Corn orientation; hybrid seeds. (In Italian.) *Humus* 4: 3-4. Jan. 1948. 16 H88
- 897 MULLINS, T. Best practices imperative to high quality production. *Rice J.* 51(9): 30. Sept. 1948. 59 R36
- 898 MULVEY, R. R. Spring oat varieties. *Ind. Agr. Expt. Sta. Agron. Mimeog.* AY 110, 4 p. June 1947. 100 In2Agr
- 899 OLDERSHAW, A. W. The production of protein at home. V. Protein from cereals and pulse crops. *Farming [Norwich]* 2: 229-232. Aug. 1948. 10 F2236
- 900 OLIVA, A. The collapse of Italian cereal culture. (In Italian.) *Humus* 3(8): 5-6. Aug. 1947. 16 H88
- 901 PIEDALLU, A. Produits du sorgho a balais. *Colon Franç. de Tunisie* 58(2063): 1-2. Sept. 4, 1948. 24 C712
- 902 PLATON. La culture du maïs chez les Beni-Mtir, dans la région d'El-Hajeb. *Terre Maroc.* 17: 432-435. Dec. 1947. 24 T14
- 903 RAKITIN, I. N. 46 tsentnerov šarovoj pšenicy s gektara [46 centners of spring wheat per hectare]. *Moskva, Sel'khozgiz*, 1948. 31 p. (Proizvodstvennyj Opyt Geroev Sotsialističeskogo Truda) 59.26 R18
- 904 RANKIN, W. H. The teamwork of small grain practices in North Carolina. *Res. and Farming. [N. C. Sta.] Prog. Rpt.* 7(1): 6-7. July 1948. 100 N81R
- 905 ROGERS, T. H. Variety, spacing, and fertilization keys to high corn yields. *Victory Farm Forum* 1948(32): 6-7. Sept. 1948. 281.8 F226
- 906 RUNDQUIST, J. F., DUNGAN, G. H., and BONNETT, O. T. Spring oats; results of variety tests at Mt. Morris and Urbana, Illinois. *Ill. Agr. Col. Ext.* AG1355, 4 p. Feb. 1948. 275.29 IL62Pag
- 907 RUPP, E. Yields [of corn] that amaze you! *Mo. Ruralist* 89(19): 9, 34. Oct. 9, 1948. 6 R8891
- 908 SCHLEHUBER, A. M., OSBORN, W. M., and JOHNSTON, T. H. Better oats for Oklahoma. *Okl. Agr. Expt. Sta. B.* 322, 24 p. Sept. 1948. 100 Ok4
- 909 SINGLETON, W. R. Hybrid sweet corn. *Conn. (State) Agr. Expt. Sta. B.* 518, 60 p. Ref. June 1948. 100 C76St
- 910 SOKOLOV, A. A. Proso [Proso millet]. Ed. 2, rev. and enl. *Moskva, Sel'khozgiz*, 1948. 270 p. 59.27 So3P
- 911 STOA, T. E. Barley. *Farm Q.* 3(3): 52-57, 97, 98, 100, 102. Autumn 1948. 6 F22995
- 912 SULEJMENOV, I. S. Kul'tura pšenicy v Kazakhstane [Wheat growing in Kazakhstan]. *Moskva, Sel'khozgiz*, 1948. 271 p. 59.26 Su5
- 913 VIÉGAS, G. P. Hybrid corn in São Paulo. (In Portuguese.) *Colheitas e Mercados* 4(3/6): 9-12. Mar./June 1948. 255.3 Sa652
- 914 WILLIAMS, D. L. Drouth is the number one problem in corn production. *Victory Farm Forum* 1948(32): 15-16. Sept. 1948. 281.8 F226

#### Fiber Crops

- 915 AFZAL, M., SHAH, F. A., and NAWAZ, S. M. An appraisal of the cotton situation in the Indian Union and Pakistan. *Indian Cotton Growing Rev.* 2: 97-109. Ref. July 1948. 72.8 In23
- 916 ANDERSON, R. L., and MANNING, H. L. An experimental design used to estimate the optimum planting date for cotton. *Biometrics* 4: 171-196. Sept. 1948. 442.8 B5224
- 917 ATKINS, I. M. The possibilities of growing flax in north central Texas. *Cotton Gin & Oil Mill Press* 49(19): A-8. Sept. 18, 1948. 304.8 C822
- 918 BALASUBRAHMANYAN, R., and NARAYANAN, N. G. Hybrid cotton. *Indian Cotton Growing Rev.* 2: 125-129. Ref. July 1948. 72.8 In23
- 919 BROWN, C. H. Giza 30, a variety with a big future. *Egypt. Cotton Gaz.* 4: 43-47. May 1948. 72.8 Eg9
- 920 CROSBY, J. Acala 4-42 [cotton] seed for 1949. *Calif. Farmer, North. Ed.* 189: 306-307. Oct. 9, 1948. 6 C126
- 921 DICK, J. B., and BRAIN, S. G. Cotton variety tests continue to provide information. *Miss. Farm Res. [Miss. Sta.]* 11(10): 2-5. Oct. 1948. 100 M69Mi
- 922 FERREIRA FILHO, J. C. Cultivation of flax (*Linum usitatissimum* L.). (In Portuguese.) *Agronomia [Rio de Janeiro]* 7(1): 3-19. Jan./Mar. 1948. 9.2 Ag892
- 923 FLACCOMIO, E. Culture of agave in Sicily. (In Italian.) *Risveglio Agr.* 7: 240-241. July 15/31, 1948. 16 R49
- 924 HADLEY, P. The white harvest. *Pa. Farmer* 139: 174-175, 189. Sept. 25, 1948. 6 P383  
Harvesting cotton.
- 925 HELIODORO VALLE, R. Historia mexicana del algodón. *Agr. Lagunero* 3(27, 1. e. 26): 16-17. June/July 1948. 8 Ag824
- 926 HEUER, H., MICHELLY, G., and SENGBUSCH, R. VON. Die züchtung eines monösischen hanfes. n. p., 1947. 15 p. 73.2 H482
- 927 HINCHLIFFE, E. Without prejudice. *Farmers Weekly [London]* 29(16): 41. Oct. 15, 1948. 10 F2226  
Linseed culture in Great Britain.
- 928 KOCH, P. The bag problem; a summary of the possibilities of fibre production in the Union. *Farming So. Africa* 23: 461-471. July 1948. 24 So842
- 929 LONDOÑO B., M. Producción de algodón en el Departamento del Tolima. *Agr. Trop.* 4(6): 12-18. June 1948. 26 Ag8
- 930 MCLEMORE, P. "Starting my cotton crop." *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(9): 52. Sept. 1948. 6 So81
- 931 MEDINA, J. C., AGUIRRE JÚNIOR, J. M., and CORREIA, F. A. Technologic-agricultural study of varieties of *Phormium tenax* Forster. (In Portuguese.) *Bragantia* 7: 231-241. Nov./Dec. 1947. 102.5 B73Tb  
English summary.
- 932 NAUDE, P. J. Experiments with sunn hemp [*Crotalaria juncea*] fibre. *Farming So. Africa* 23: 472-480. July 1948. 24 So842
- 933 PATEL, A. F., and PATEL, S. J. "Pratap" cotton for the Mathio tract. *Indian Cotton Growing Rev.* 2: 140-144. July 1948. 72.8 In23
- 934 SIMON, J. La culture du lin en Angleterre. *Rev. Agr. de l'Afrique du Nord* 46: 405-406. Aug. 13, 1948. 80 R326
- 935 STOLSKII, V. A record-breaking harvest of cotton in 1947. (In Russian.) *Kolkhoz. Proizvod.* 8(5): 11-13. May 1948. 281.8 K83  
On the Communist Tadzhikistana Collective Farm.



936 STREET, A. G. A crop we can't afford? *Farmers Weekly* [London] 29(14): 37. Oct. 1, 1948. 10 F2226

Linseed harvesting problems in Great Britain.

937 THAXTON, E. L., JR. "Early frost" gets rid of leaves when they're a nuisance. *Southwest. Crop & Stock* 2(10): 19. Oct. 1948. 6 So8942  
Cotton defoliation by chemical means.

939 THOMAS, P. M. Cotton varieties are growing in importance. *Textile World* 98(10): 107-122. Oct. 1948. 304.8 T315

#### Forage Crops and Grasses

939 AAMODT, O. S. Western grasslands in American agriculture. *Amer. Soc. Agron. J.* 40: 853-861. Oct. 1948. 4 Am34P

940 ALBRECHT, W. A. Pasture grasses need additional nutrients to furnish livestock ample protein supply. *Dairy & Poultry News* 3(3): 1, 5. Summer 1948. 49.9 Sw5

941 ARAUJO, A. A. DE. Pastures for swine. (In Portuguese.) *Granja* 3(33): 35-37. (Concl.) June 1948. 9.2 G76

942 ARBEITSGEMEINSCHAFT ZUR FÖRDERUNG DES FUTTERBAUES. Tätigkeitsbericht für das Jahr 1947. *Arbeitsgemeinsch. z. Förderung des Futterbaues*. Mitt. 31, 38 p. 1947. 60.9 Ar1

943 BATES, G. H. An investigation into the cause and prevention of deterioration of leys. *Brit. Grassland Soc. J.* 3: 177-184. Sept. 1948. 60.19 B773

944 BELL, H. M. Range fires—a serious threat to range forage plants. *Tex. Livestock J.* 7(8): 8-9. Aug. 15, 1948. 49 T29

945 BEVIN, R. H. A note on the history of subterranean clover in New Zealand. *Lincoln Col. Rur. Ed. B.* 3(6): 2-4. July 1948. 109 L63R

946 BLIN, H. La création de pâturages à moutons sur les Causses du Quercy. *Mouton* 3: 35. Mar. 10, 1948. 45.8 M86

947 BORGIOLO, E. Characteristics and problems of alpine culture and Appenine zootechnics. (In Italian.) *Ital. Forest. e Mont.* 3: 141-161. May/June 1948. 99.8 It12

Especially pastures.

949 CHAMBERS, H. M. Bumper harvest of hope for bare ranges: "green pasture" project booms when native grasses yield their biggest crop. *South. Seedsman* 11(11): 15, 62. Nov. 1948. 61.8 So8

949 COURTNEY, B. Washington County farmers let grass grow under their feet and make money. *Ark. Farmer* 50(10): 6. Oct. 1948. 6 Ar42  
County-wide pasture improvement contest.

950 CULLITY, M. Kikuyu grass [Pennisetum clandestinum]. *West. Austral. Dept. Agr. J.* (ser. 2) 25: 185-198. June 1948. 23 W52J

951 CUNHA, L. A. DA. Forage plants for livestock. (In Portuguese.) *Soc. Rural Bras. Rev.* 28(335): 36-37. Aug. 1948. 9.2 B733

952 DAVIS, A. G. Grassland changes in the Winslow Area, Buckinghamshire, 1935-1947. *Brit. Grassland Soc. J.* 3: 103-113. Ref. June 1948. 60.19 B773

953 DAVIS, A. G. Leys on the Cotswolds. *Farming* [Norwich] 2: 242-247. Aug. 1948. 10 F2236

954 DMITRIEV, A. M. *Lugovodstvo s osnovami lugovedeniya* [Meadow culture and principles of meadow science]. Ed. 2, rev. Moskva, Sel'khozgiz, 1948. 407 p. (Uchebniki i Uchebnye Posobiya dlya Vysshikh Sel'skokhoziaistvennykh Uchebnykh Zavedenii) 60.1 D64L

955 DRAGHETTI, A. Alfalfa during the winter. (In Italian.) *Humus* 4: 28-29. Jan. 1948. 16 H88

956 ECKMÜLLER, O. Die formen der waldweide im Steirischen bauernwald. *Allg. Forst- u. Holzwirtschaft. Ztg.* 59: 121-123. Aug. 1948. 99.8 AL53

957 ELLISON, W. Reseeding of the northern part of the Plynlimon Range. *Brit. Grassland Soc. J.* 3: 185-191. Sept. 1948. 60.19 B773

958 FUELLEMAN, R. F., BURLISON, W. L., and KAMMLADE, W. G. Investigations on agronomy pasture plots. *Ill. Agr. Col. Ext. AG1335*, 7 p. June 1947. 275.29 IL62Pag

959 FUELLEMAN, R. F., BURLISON, W. L., and KAMMLADE, W. G. Investigations on agronomy pasture plots. *Ill. Agr. Col. Ext. AG1365*, 8 p. May 1948. 275.29 IL62Pag

960 FUELLEMAN, R. F. Ladino clover. *Ill. Agr. Col. Ext. AG1358*, 11 p. Mar. 1948. 275.29 IL62Pag

961 GEUS, J. DE. Preliminary investigation on the influence of temperature and rainfall on the yield of permanent grassland. (In Dutch.) *Landbouwk. Tijdschr.* [Wageningen] 60: 236-244. June 1948. 105.2 Or3  
English summary.

962 GONZALEZ, A. DE J. Yerba de Guinea. *Habano* 14(8): 27-28. Aug. 1948. 69.8 H11

963 GRANDFIELD, C. O., HANSING, E. D., and HACKEROTT, H. L. Losses incurred in asexual propagation of alfalfa clones. *Amer. Soc. Agron. J.* 40: 804-808. Sept. 1948. 4 Am34P

964 HALL, A. J. Birdsfoot trefoil, lush and green in August. *Amer. Agr.* 145: 489, 504-505. Sept. 18, 1948. 6 Am3

965 HARRISON, C. M. Fall pasture problems. *Hoard's Dairyman* 93: 724. Oct. 10, 1948. 44.8 H65

966 HEICK, F. Experiments with lupines. (In Danish.) *Denmark. Statens Forsøgsvirks. 1 Plantekultur*, Beret 409: 557-586. 1948. 11 D412

967 HUMPHRY, E. V. Two promising legumes in north Queensland. *Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B.* 12: 13-15. July 1, 1948. 65.9 Q3C

968 HURD, R. M. A range test of species adaptability. *Iowa State Col. J. Sci.* 22: 387-394. July 1948. 470 Io9

969 INDIANA. AGRICULTURAL EXPERIMENT STATION. Pasture renovation. *Ind. Agr. Expt. Sta. Agron. Mimeog. AY 112*, rev., 3 p. 1948. 100 In2Agr

970 JULÉN, G. Current news from this year's forage plant research. (In Swedish.) *Lantmannen* 32: 623-624. Sept. 18, 1948. 11 L234

971 KANSKY, G. W. Judging range condition and trend in a range inventory project. *Iowa State Col. J. Sci.* 22: 395-404. July 1948. 470 Io9

972 KENNING, W. Algunos consejos para el invernador del medio agrícola oriental. *Campo* [La Paz] 2(12): 54-55. Apr. 1948. 9.1 C15  
Forage culture.

973 KING, W. A. Pasture—a real cash crop. (Abs.) *Milk Dealer* 37(12): 97. Sept. 1948. 44.8 M595

974 KLARENBERG, K. A. Forage production in Switzerland and the Working Association for the Promotion of Forage Culture. (In Dutch.) *Netherlands. Landbouwwoorlichtingsdienst. Maandbl.* 5: 379-385. Aug. 1948. 12 N383M

975 KNOWLTON, G. F., and SORENSON, C. J. Alfalfa seed production requires pollination of bees. *Good Earth Mag.* 2(11): 11. Sept. 1948. 6 G59

976 KOCH, S. Soll man rüben abblatten? *Württemb. Wchnbl. f. Landw.* 115: 225. Aug. 21, 1948. 18 W96  
Forage beets.

977 LARUE, P. Les catégories de farines de luzerne. *Défense Agr. de la Beauce et du Perche* 45: 218-219. Aug. 10, 1948. 14 D36

978 LAWSON, E. Practical field tests for hay moisture content. *Power Farming* 57(8): 53-54. Aug. 1948. 58.8 P87

979 LINEHAN, P. A., MCCONAGHY, S., and STEWART, R. H. The grasslands of Northern Ireland. *Brit. Grassland Soc. J.* 3: 85-94. Ref. June 1948. 60.19 B773

980 LOVVORN, R. L., and WOODHOUSE, W. W., JR. Ladino is here to stay. *Res. and Farming*. [N. C. Sta.] *Prog. Rpt.* 7(1): 10. July 1948. 100 N81R

981 MARESCALCHI, A. The loss in hay; renunciation of the old system. (In Italian.) *Ital. Vinic. ed Agr.* 38: 109-110. May 31, 1948. 95.8 It1

982 MARK, F. A. How grass was made to grow. *Amer. Cattle Prod.* 30(5): 11-12. Oct. 1948. 49 P94

983 MARK, F. A. Packers pay for pounds. *Idaho Farmer* 66: 599, 616. Aug. 19, 1948. 6 G282  
Livestock range improvement.

Also in *Wash. Farmer* 73: 671, 712. Sept. 16, 1948. 6 R151

984 MIEGEVILLE. La luzerne et l'élevage au Maroc. *Terre Maroc* 17: 355-357. Sept. 1947. 24 T44

985 MORALES, P. T. Praderas para pastoreo. *Chacra* 18(215): 46. Sept. 1948. 9 C34

986 NICOLL, B. Scientists studying alfalfa 'booby traps.' *Lincoln Evening J. Farm Sect.* 2(5): 10, 22. Aug. 1948. 6 L63  
Alfalfa pollination.

987 NIXON, W. M. Good old Bermuda [grass]. *Soil Conserv.* 14: 51-54. Oct. 1948. 1.6 So3S



- 988 NIXON, W. M. Southwest discovers Single-taries. *South. Seedsman* 11(10): 15, 55. Oct. 1948. 61.8 So8
- 989 NUILA LOPEZ, L. Pastos que pueden cultivarse a bajo precio en El Salvador. *Rev. Ganad. [San Salvador]* 7(104/105): 8. July/Aug. 1948. 8 R3292 Sacaton culture.
- 990 OLOFSSON, S. Methods of sowing and harvesting time for hay land on moor areas at Gotland. (In Swedish.) *Svenska Vall- och Mosskulturför. Kvrtilsskr.* 10: 57-100. June 1948. 11 Sv27  
English summary.
- 991 OLOFSSON, S. Pastures in fall. (In Swedish.) *Ladugården* 1947: 118-119. Oct. 1947. 44.8 L12
- 992 PARKS, J. M. Dry weather grasses. *Farm & Ranch* 67(10): 10-11. Oct. 1948. 6 T31
- 993 PUCCINI, G. Subterranean clover; a quick birth. (In Italian.) *Terra [Firenze]* 59(33/34): 3. Aug. 22, 1948. 16 T274
- 994 PUNTER, A. W. Give them beans; they provide proteins for dairy cows and good crops can be grown if you follow these methods. *Dairy Farmer [Ipswich]* 21(10): 22. Oct. 1948. 44.8 D1414
- 995 RAMONA, R. DE. La esparceta. *Cult. Mod.* 31: 255-256. July 1948. 15 C89  
Sainfoin.
- 996 ROBERTS, B. Give your pastures a break! *West. Livestock J.* 26(54): 38-39, 64, 66. Sept. 15, 1948. 6 F2278
- 997 SALDIAS, M. O. La remolacha forrajera. *Chacra* 18(215): 100-101. Sept. 1948. 9 C34
- 998 SCOTT, J. D. Veld management in South Africa. *Union So. Africa. Dept. Agr. B.* 278, 40 p. 1947. 24 So84P
- 999 SELL, O. E., and CROWDER, L. V. Tall fescue grass production in Georgia. *Ga. Agr. Expt. Sta. Press B.* 601, 2 p. Sept. 30, 1948. 100 G29P
- 1000 SEVERSON, H. Kentucky has a "wonder grass." *Amer. Hereford J.* 39(10): 44, 145. Sept. 15, 1948. 43.8 Am32  
Kentucky 31 fescue.
- 1001 SITTEL, C. W. Planting Bermuda. *Farm & Ranch* 67(10): 28-29. Oct. 1948. 6 T31
- 1002 SLIJCKEN, A. VAN. Le trèfle ladino. *Rev. de l'Agr.* 1: 120-123. Feb. 1948. 13 R322
- 1003 SMALLFIELD, P. W. Farming in New Zealand; intensive grassland farming. *New Zeal. J. Agr.* 76: 563-567, 569-573, 575-577, 579. June 1948. 23 N48J
- 1004 SMELOV, S. P. Biologicheskie osnovy lugovodstva [Biological principles of meadow cultivation]. *Moskva, Sel'khozgiz*, 1947. 230 p. 60.1 Sm3
- 1005 SMITH, H. N. Singletary peas give promise as winter legume. *Seed World* 63(7): 42, 44. Oct. 7, 1948. 61.8 Se52
- 1006 SMITH, J. E., JR. Grass seed production under cultivation in the Southern Great Plains. *Cattleman* 35(5): 26-27, 78-80. Oct. 1948. 45 C29
- 1007 SNIDER, H. J. Clover is fine hay crop. *Hoard's Dairymen* 93: 734. Oct. 10, 1948. 44.8 H65
- 1008 SPAVEN, J. Everyone wins in pasture contest. *Better Crops with Plant Food* 32(7): 15-16. Aug./Sept. 1948. 6 B46
- 1009 SPIES, P. Möglichkeiten planvoller futterbaugestaltung. *Neue Mitt. f. die Landw.* 3: 97-98. Apr. 5, 1948. 18 N39
- 1010 STADLER, H. Der zwischenfrucht-futterbau mindert die futternot! *Salzburg. Bauer* 3(32): 1-2. Aug. 5, 1948. 19 Sa3
- 1011 STEIEN, O. More intense meadow culture. (In Norwegian.) *Norsk Landbr.* 14: 329-330. Sept. 3, 1948. 11 N8122
- 1012 THATCHER, L. E., MONROE, C. F., and DAVIDSON, R. S. Sudan grass—1947 Wooster test. *Farm & Home Res. [Ohio Sta.]* 33: 136-141. July/Aug. 1948. 100 Oh3S
- 1013 THOMAS, H. L., and MUMFORD, D. C. The place of crested wheatgrass on wheat farms. *Oreg. Agr. Expt. Sta. B.* 448, 26 p. Nov. 1947. 100 Or3
- 1014 THOMPSON, W. R. A cafeteria for the cows. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(10): 15, 134. Oct. 1948. 6 So81  
Year-round grazing with pasture management.
- 1015 TURINA, B. Livade-pašnjaci [Meadow-pastures]. *Zagreb, Poljoprivredni Nakladni Zavod*, 1948. 227 p. (Stručna Poljoprivredna Knjižnica. Sv. 9) 60.1 T842
- 1016 TURNER, R. R. Grassland output on a dairy farm in County Armagh. *Brit. Grassland Soc. J.* 3: 95-102. June 1948. 60.19 B773
- 1017 UNGLAUB, H. Klee-grasgemische und grassamenbau. *Neue Mitt. f. die Landw.* 3: 266. Sept. 5, 1948. 18 M39
- 1018 U. S. BUR. OF DAIRY INDUSTRY. How to get more milk from your pastures. *U. S. D. A. PA-47*, 4 p. Aug. 1948. 1 Ag84Pro  
Pasture management.
- 1019 VAN RENSBURG, H. J. The cultivation of introduced pasture plants. *East African Agr. J.* 14: 3-9. Ref. July 1948. 24 Ea74
- 1020 VAN RENSBURG, H. J. Pasture management. *East African Agr. J.* 14: 26-28. July 1948. 24 Ea74
- 1021 WATKINS, J. M., and CHAVEZ V., A. Providing forage for the dry season in El Salvador. *Brit. Grassland Soc. J.* 3: 141-151. June 1948. 60.19 B773
- 1022 WELLS, C. More money for dairymen. *Farmers Fed. News* 29(1): 9. Sept. 1948. 280.28 F225  
Pasture management.
- 1023 WEXELSEN, H. Breeding and seed production of alfalfa. (In Norwegian.) *Nord. Jordbrugsforsk.* 1948: 541-556. 11 N752
- 1024 WHITNEY, D. J. New plants for irrigated pastures. *Calif. Farmer, South. Ed.* 189: 168, 169. Aug. 28, 1948. 6 C126A
- 1025 WILSIE, C. P., and SKORY, J. Self-fertility of erect and pasture-type alfalfa clones as related to the vigor and fertility of their inbred and outcrossed progenies. *Amer. Soc. Agron. J.* 40: 786-794. Sept. 1948. 4 Am34P
- 1026 WOODHOUSE, W. W., JR. Growing alfalfa in North Carolina. *Better Crops with Plant Food* 32(7): 6-8, 41. Aug./Sept. 1948. 6 B46
- 1027 WOODHOUSE, W. W., JR., LOVVORN, R. L., and DOBSON, S. H. Producing pastures and hay in North Carolina. *N. C. Agr. Col. Ext. C.* 323, 4 p. Aug. 1948. 275.29 N811
- 1028 WRIGHT, P. H. New sweet clover varieties. *West. Canada Beekeeper* 11(9): 9-10. Sept. 1948. 424.8 W525  
Honey plants.

#### Oil Crops

- 1029 ARGENTINA. MINISTERIO DE AGRICULTURA. DIRECCION DE CULTIVOS ESPECIALES. El cultivo del manf. *Bolsa de Com., Rosario. Rev.* 36(879): 7, 9, 11-12. Aug. 31, 1948. 287 R71
- 1030 DARLINGTON, C. D. Groundnut breeding. *Nature [London]* 162: 621. Oct. 16, 1948. 472 N21
- 1031 GABBY, J. L. Soy now major industry as new uses for bean found. *Northwest Farm Equip. J.* 62(10): 15. Oct. 1948. 58.8 F222
- 1032 GOMES, P. Soybean culture. (In Portuguese.) *Lavoura* 52: 67. Mar./Apr. 1948. 9.2 L39
- 1033 HADLEY, P. Consider the sunflower. *Gleanings Bee Cult.* 76: 624. Oct. 1948. 424.8 G47  
Honey plant.
- 1034 HOWES, F. N. Groundnuts. *Westralian Farmers' Co-op. Gaz.* 14(359): 39-42. July 1948. 280.28 W522
- 1035 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Three years of sunflower seed production in Piatt County, Illinois. *Ill. Agr. Col. Ext. AG1341*, 10 p. Sept. 1947. 275.29 IL62Pag
- 1036 JANETZKI, C. Erfahrungen in winterrapsanbau. *Neue Mitt. f. die Landw.* 3: 179-180. June 21, 1948. 18 N39
- 1037 LAGOS U., J. A. Cultivo de la soya. *Rev. de Agr. [Costa Rica]* 20: 365, 367. Sept. 1948. 8 Es1
- 1038 LANDI S., J. Cultivo del girasol en Lambayeque. *Vida Agr. [Lima]* 25: 585, 587, 589-592. July 1948. 9.8 V66
- 1039 OBERDORF, F. Einiges über sojabohnenzüchtung und -anbau. *Züchter* 17/17: 411-413. Oct./Dec. 1947. 442.8 Z8
- 1040 REBOUR, H. Le XII<sup>e</sup> Congrès International d'Oleiculture. *Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc.* 18: 225-228. July/Aug. 1948. 80 P9482
- 1041 RUDORF, W. Züchtung und anbau der sonnenblume. *Neue Mitt. f. die Landw.* 3: 271-272. (Cont.) Sept. 5, 1948. 18 M39



1042 SCHMIDT, F. Anbau von sprengelrübren als winter-zwischenfrucht. Bad. Landw. Wchbl. 3: 129. Aug. 28, 1948. 18 B142

1043 U. S. REGIONAL SOYBEAN LABORATORY, SOUTHERN SECT. Results of the cooperative uniform soybean tests, 1947. II. Southern States. U. S. Bur. Plant Indus., Soils, and Agr. Engin. RSLM 147, 134 p. May 1948. 1.9 C49292Rs

1044 WEIBEL, R. O. The castor-oil plant in the United States. Econ. Bot. 2: 273-283. Ref. July/Sept. 1948. 450 Ec7

#### Sugar Crops

1045 ARCENEUX, G. Locality effect in comparative varietal yields of cane and sugar under Louisiana conditions. Sugar B. 26: 406-407, 409-411. Sept. 15, 1948. 65.9 Am32

1046 ARCENEUX, G., HEBERT, L. P., and MAYEUX, L. C. Resume of results of sugarcane variety tests in Louisiana during 1947. Sugar B. 26: 388, 396-398. Sept. 1, 1948. 65.9 Am32

1047 ARCENEUX, G. Some practical means of improving stands of sugarcane under Louisiana conditions. Sugar B. 26: 404, 411-413. Sept. 15, 1948. 65.9 Am32

1048 ARCENEUX, G. Studies of some practical means of increasing the germination rate of sugarcane under Louisiana conditions. Sugar B. 26: 389, 393-395. Sept. 1, 1948. 65.9 Am32

1049 CANNON, R. M. Good beet growers stay in the business. U & I Cult. 8(2): 21. Sept. 1948. 66.8 V12

1050 ELLIOTT, J. T. Mackay varietal changes from 1933 to 1947. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 16-18. July 1, 1948. 65.9 Q3C

1051 ELLIOTT, J. T. Q.50 and Trojan in the Mackay District. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 1-3. July 1, 1948. 65.9 Q3C

1052 HUGHES, C. G. How long should setts be? Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 18-19. July 1, 1948. 65.9 Q3C

1053 HUGHES, C. G. Sporting in cane. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 40-41. July 1, 1948. 65.9 Q3C

1054 MCDUGALL, W. A., STEINDL, D. R. L., and ELLIOTT, J. T. Variations in primary vigour in the variety Q.28. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 31-34. July 1, 1948. 65.9 Q3C

1055 PAREJA EGUEZ, O. La caña de azucar. Campo [La Paz] 2(12): 34-36. Cont.) Apr. 1948. 9.1 C15

1056 PATTERSON, P. More sugar, less work from single-germ beet seed. West. Farm Life 50(19): 3, 22. Oct. 1, 1948. 6 R153

1057 PINEDA P., M. A. Cómo se cultiva la caña de azucar en la Costa Sur de Guatemala. Rev. de Agr., Com. e Indus. [Panama] 7(84): 30-43. Aug. 1948. 8 R3291

1058 STEHLIK, V. Sugar-beet cultivation in Czechoslovakia. (In Russian.) Interagra 2: 158-163. 1948. 28 In825  
English summary.

1059 STEVENSON, G. S. Sugar-cane varieties in British Guiana: an historical review. Empire J. Expt. Agr. 16: 143-154. July 1948. 10 Em7

1060 STORY, C. Profitable ratooning. III. Prod. Rev. 38(10): 49, 51. Aug. 15, 1948. 23 P942  
Sugarcane.

#### Tobacco

1061 EVANS, O. R. Canada's own tobacco road. Family Herald & Weekly Star 79(40): 3. Oct. 6, 1948. 7 F21

Leaf tobacco varieties in Quebec.

1062 FORBES, A. P. S. A note on Nicotiana rustica or nicotine tobacco. Nyasaland Agr. Q. J. 7: 35-39. Apr. 1948. 24 N983

1063 HOROWITZ, B., CROLL, R. D., and BELL, T. C. Nicotiana rustica as an Australian field crop. Austral. Inst. Agr. Sci. J. 14: 61-70. June 1948. 23 Au74

1064 MCEVOY, E. T. Construction and management of tobacco seed-beds. Canada. Dept. Agr. Farmers' B. 148, 25 p. Aug. 1948. 7 C16F

1065 MCMURTREY, J. E., JR. Growing better tobacco. Econ. Bot. 2: 326-332. Ref. July/Sept. 1948. 450 Ec7

1066 PERUCCI, E. The "Resistant 142." (In Italian.) Tabacco 52: 194-206, 231-239. (Cont.) July-Aug. 1948. 69.8 T115

1067 SZTEYN, K., and VEN, R. VAN DER. A sowing frame for tobacco and other fine horticultural seeds. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 435-438. July 1948. 86 N384

English summary.

1068 VIADA, L. E. Posibilidades del cultivo del tabaco "Capero" en la Republica Argentina. Argentina. Dir. de Tabaco. B. del Tabaco 11(4): 5-16. Ref. Oct./Dec. 1947. 66.9 Ar32

1069 VIRGINIA. AGRICULTURAL AND MECHANICAL COLLEGE AND POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION DIV. Larger yields and better quality tobacco. Va. Agr. Col. Ext. C. E-386, rev., 6 p.-folder. Jan. 1947. 275.29 V81C

#### HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

##### General

1070 AARTSEN, J. P. VAN. Horticulture in Italy in 1947-48. (In Dutch.) Tuinbouw 3: 217. Aug. 1948. 80 T815

1071 ARRUDA, A. F. DE. My garden; invitation to horticulture. (In Portuguese.) Chacaras e Quintais 78: 191-193. (Cont.) Aug. 15, 1948. 9.2 C34

1072 ASHTON, J. R. The world's largest market garden. Grower 30: 444-446. Sept. 18, 1948. 286.83 M34

Seabrook Farms, New Jersey.

1073 AUTSCH, H. Ein gärtnersohn über die freizeitgestaltung des junggärtners. Gartenbauwirtschaft 1947(7): 8. July 1947. 80 G1922

1074 BLANCHARD, L. E. Desert gardens. Your Gard. & Home 2(10): 5, 20-21. Oct. 1948. 80 Y8

1075 BOYD, W. M. Laws, rules and regulations governing the shipment of nursery stock out of New Jersey. N. J. Dept. Agr. C. 372, 55 p. May 1948. 2 N46C

1076 BRAUN, E., and WALKOF, C. Hints on dry land gardening. Canada. Dept. Agr. C. 132, rev., 8 p. Nov. 1947. 7 C16C

1077 BRIERLEY, W. G. What is a "test winter?" Minn. Hort. 76: 116-117. Oct. 1948. 81 M66

1078 BURKHARDT, G. E. Junior gardeners. Gard. Chron. Amer. 52: 268. Oct. 1948. 80 G1632

1079 CHANDLER, R. F., JR. Horticultural science—its history and future possibilities. Maine State Pomol. Soc. Ann. Rpt. 75: 36-39. 1948. 81 M28

1080 CHAPPELL, W. E. Your Freedom Garden. Conn. Agr. Col. Ext. Folder 21, 4 p. Mar. 1948. 275.29 C76Ex

1081 COLE, C. A. Miscellany from a horticultural inspector's notebook. Oreg. Dept. Agr. B. 159: 27-29. Sept. 1948. 2 Or3

1082 EYSINGA, N. P. H. J. R. VAN. Development of the tree nursery industry in Zundert parish. (In Dutch.) Tuinbouw 3: 180-183. July 1948. 80 T815

1083 FJÄDERHANE, A. M., and others. Postwar horticulture in Scandinavia. (In Swedish, Norwegian and Danish.) Nord. Jordbrugsforsk. 1948: 376-401. 11 N752  
Horticulture in Sweden during the war, by A. M. Fjäderhane, p. 376-383; New directions for fruit culture in Finland, by O. Meurman, p. 383-391; Horticulture in Norway to-day, by A. H. Bremer, p. 392-397; Horticulture in Denmark before and after the war, by T. Bacher, p. 397-401.

1084 FORD, MRS. W. K. Food growing. Natl. Gard. 19(9/10): 36. Sept./Oct. 1948. 90.32 N21  
Freedom gardens.

1085 GÄRTNERISCHE VERSUCHSANSTALT ZU FRIEDSDORF. Tätigkeitsbericht, 21. Düsseldorf, 1948. 48 p. 85 L73

1086 GRÜNING, E. Gartenbau - richtig! Ein buch für unerfahrene gartenfreunds. München, Ehrenwirth, 1947. 79 p. 90.1 G92

1087 HASTINGS, W. R. All-America selections for 1949 given review. Seed Trade News 51(17): 1, 3. Oct. 27, 1948. 61.8 Se3

1088 HOPKINS, D. P. Chemical aspects of soilless growth. Mfg. Chem. 19: 388-393. Ref. Sept. 1948. 396.8 M31



- 1099 HOWLAND, J. E. The worst sins in gardening and how to avoid them. *Better Homes & Gard.* 27(2): 50-51. Oct. 1948. 80 F9424
- 1090 HOWLAND, J. E. Your success depends upon what's below the surface. *Better Homes and Gard.* 27(3): 256-257. Nov. 1948. 80 F9424
- Plant roots.
- 1091 KELWAY, C. A school garden. *My Gard.* 37: 154-158. Aug. 1948. 80 M995
- 1092 KLOUCART, N. The Jutland Garden Society through 75 years. (In Danish.) *Haven* 48: 115-120. Aug./Sept. 1948. 80 H29
- 1093 KORÁNYI, H. K. Post-war horticulture in Austria. (In Dutch.) *Tuinbouw* 3: 188-190. July 1948. 80 T815
- 1094 LANGE, W. Erfahrungen über die lehrabschlussprüfungen im gartenbau in Berlin. *Land, Wald u. Garten* 3: 39. Feb. 1948. 18 L22
- 1095 MCKENNON, F. Plant board activities and nursery markets. *Oreg. Dept. Agr. B.* 159: 3-5. Sept. 1948. 2 Or3
- 1096 MANNING, D. Garden for the blind. *Field* 192: 268. Sept. 4, 1948. 10 F45
- 1097 NONKES, J. Our horticultural products at the fair at Strassburg. (In Dutch.) *Groenten en Fruit* 4: 139. Sept. 9, 1948. 80 G89
- 1098 NONKES, J. What does the Institute for Plant Breeding of the Agricultural College do for the practical market gardener. (In Dutch.) *Groenten en Fruit* 4: 161-162. Sept. 16, 1948. 80 G89
- 1099 OLANO A., F. Un proyecto de interes nacional. *Agr. Trop.* 4(6): 45-47. June 1948. 26 Ag8
- School and home vegetable gardens.
- 1100 PICTORIAL gardening; flowers, shrubs, vegetables and fruit. Ed. 5, rev. and enl. London, Pearson, 1948. 416 p. 90.1 P58
- 1101 RATIER, H. Práctica de los cultivos en las escuelas primarias argentinas. *Campo [La Paz]* 2(12): 57-62. Apr. 1948. 9.1 C15
- 1102 RUYS, B. Development of horticulture in Dedemsvaart. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 244-248. June 1948. 105.2 Or3
- 1103 SARRABAY, J. Au sujet de l'utilité de la greffe Mayorquine. *Rev. Agr. de l'Afrique du Nord* 46: 385-386. July 30, 1948. 80 R326
- 1104 SCARFF, H. N. The nursery of today. *Hoosier Hort.* 30: 131-132. Sept. 1948. 81 In2H
- 1105 SHEWELL-COOPER, W. E. Why didn't that tree bear fruit? *Smallholder* 80(2011): 13. Oct. 15, 1948. 10 Sm1
- 1106 SILVEIRA, G. G. DA. Municipal gardens. (In Portuguese.) *Lavoura* 52: 44-47. May/June 1948. 9.2 L39
- Brazil.
- 1107 SIMONS, A. J. Showing what you grow. *Gard. Work Amateurs* 68: 467-470. Aug. 14, 1948. 80 G1627
- 1108 STEINMETZ, A. H. Developments in Oregon's nursery industry; the over-all picture in Oregon. *Oreg. Dept. Agr. B.* 159: 10-11. Sept. 1948. 2 Or3
- 1109 STUART, N. W. Use of urea-form phosphate rock in soilless gardening. *Agr. Chem.* 3(10): 25-27, 65, 67, 69. Ref. Oct. 1948. 381 Ag8
- 1110 TEUSCHER, H. Putting the garden to sleep. *Your Gard. & Home* 2(10): 9, 19-20. Oct. 1948. 80 Y8
- 1111 THORNE, J. B. Making the most of a tiny garden. *Amateur Gard.* 65(3854): 9. Aug. 24, 1948. 80 Am13
- 1112 TOXOPEUS, H. J. The situation in regard to commercial perennial nursery-stocks that will soon be in demand. (In Dutch.) *Landbouw* 20: 133-148. Apr./May 1948. 22.5 L23
- 1113 UPSHAW, W. E. Nursery stock certification. *Oreg. Dept. Agr. B.* 159: 19-20. Sept. 1948. 2 Or3
- 1114 VIGIANI, D. Agronomia [Agronomy]. Genova, Dante Alighieri, 1947. 323 p. (Trattato di Agraria, 1) 30 V68
- 1115 WELLENSEK, S. J. Horticultural research. (In Dutch.) *Tuinbouw* 3: 199-200, 212. Aug. 1948. 80 T815
- 1116 WELLS, J. S. Hormones aid the propagator: use now becoming standard practice in U. S. A. *Nurseryman & Seedsman* 107: 642-645. Sept. 2, 1948. 80 N933
- 1117 WEST, K. Rabbit-proof plants. *My Gard.* 37: 173-176. Aug. 1948. 80 M995
- 1118 WHITEHEAD, E. L. Fall gardening. *Okla. Agr. Col. Ext. C.* 486, 3 p. 1948? 275.29 Ok41C
- 1119 WIEMAN, J. S. Oregon's nursery law--its operation. *Oreg. Dept. Agr. B.* 159: 25-26. Sept. 1948. 2 Or3
- 1120 WILSON, F. C. Pick faults in your garden. *Family Herald & Weekly Star* 79(36): 5. Sept. 8, 1948. 7 F21
- Garden layout.
- 1121 WILSON, F. C. Post-season garden. *Family Herald & Weekly Star* 79(42): 5. Oct. 20, 1948. 7 F21

### Fruits--General

- 1122 BARRACHINA, V. El cultivo de la "bresquilera." *Agr. Levantino* 14(160): 57-59. (Concl.) Mar. 1948. 15 Ag85
- 1123 BELAI, A. The orchard of Sech Collective Farm. (In Russian.) *Kolkhoz. Proizvod.* 8(5): 28-29. May 1948. 281.8 K83
- Management.
- 1124 BERGHUIS, J. Fruit culture in France. III. (In Dutch.) *Groenten en Fruit* 4: 147. Sept. 9, 1948. 80 G89
- 1125 BERTELSEN, J. Experimental planting. (In Danish.) *Haven* 48: 125-126. Aug./Sept. 1948. 80 H29
- Of fruit.
- 1126 BLIN, H. Mise à fruit des arbres; la greffe des boutons à fruits. *Acclimatation* 75: 179. Aug. 21, 1948. 14 Ac2
- 1127 BONI, A. Applications of growth substances in fruit and grape culture. (In Italian.) *Ital. Vinic. ed Agr.* 38: 163-164. July 31, 1948. 95.8 It1
- 1128 BONI, G. Fruit culture notes. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 125. July 15, 1948. 16 C72
- 1129 BUDAKER, G. Der obstbaufachmann und der laie. *Gart.-Z. Illus. Flora* 71: 114-115. Aug. 1948. 80 G1991
- 1130 BUSH, R. Choosing fruit trees. *Amateur Gard.* 65(3357): 14. Sept. 14, 1948. 80 Am13
- 1131 BYSSHE, G. A grower's experiments. *Quebec. Pomol. and Fruit Growing Soc. Ann. Rpt.* 1947: 31-35. 82 Q3
- 1132 CAPUCCI, C. Vineyard reconstruction and fruit planting in the Emiliano region. (In Italian.) *Riv. di Fruttic.* 10: 96-116. July 1948. 80 R52
- 1133 CATCHPOLE, N. The value of cordon fruit trees. *Amateur Gard.* 65(3360): 20. Oct. 5, 1948. 80 Am13
- 1134 DREW, B. W. Grower problem panel. *Mass. Fruit Growers' Assoc. Rpt.* 54: 59-66. 1948. 81 M384
- 1135 FACCINI, G. C. Fruit varieties cultivated in Alto Adige. (In Italian.) *Humus* 3(9): 13-16. Sept. 1947. 16 H88
- 1136 FERGUSON, D. V. Fruit trees for fall planting. *Gard. Chron. Amer.* 52: 264-265. Oct. 1948. 80 G1632
- 1137 GIBSON, R. E. Variety improvement through bud selection. *Hoosier Hort.* 30: 133-137. Sept. 1948. 81 In2H
- Fruit.
- 1138 GORSHKOV, I. S. Propagation, variety study, and introduction of [fruit and berry] varieties of I. V. Michurin and his followers. (In Russian.) *Tsent. Genet. Plodovo-Iagodnafa Lab im. I. V. Michurina. Nauch. Otchët* 1941/1942: 5-31. 1947. 87 T78
- 1139 GRAVES, H. A. Grow fruit. *Dakota Farmer* 68(18): 5-6. Sept. 18, 1948. 6 D14
- 1140 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Orchard renovation. *Gt. Brit. Min. Agr. and Fisheries. Advisory Leaflet* 333, 5 p. Aug. 1948. 10 G79La
- 1141 HARRISS, R. W. Some points on new trees: planting over rather than under. *Fruit-Grower* 106: 395. Sept. 23, 1948. 80 F941
- 1142 HEGRAY, H. Fruits; calendrier perpétuel du fructiculteur (producteur de fruits). Paris, 1948. 60 p. 93.5 H36
- 1143 HEUSSER, J. Obstbau und obstverwertung in den U.S.A. *Schweiz. Z. f. Obst- u. Weinbau* 57: 337-345. (Concl.) Sept. 25, 1948. 80 Sch9
- 1144 HOCKEY, K. C. Pollination of fruit trees. *New Zeal. Gard.* 4: 780-784. Aug. 2, 1948. 80 N4822
- 1145 HUGHES, H. M. Picking and storing fruit. *Amateur Gard.* 65(3353): 13. Aug. 17, 1948. 80 Am13
- 1146 JOUGAN, E. Éclaircissage des fruits et derniers traitements d'été. *Monit. Agr.* 1(22): 6. June 13, 1948. 14 M744



- 1147 JOUGAN, E. Pour soutenir les branches chargées de fruits. *Monit. Agr.* 1(27): 6. July 18, 1948. 14 M744
- 1148 KREMER, J. C. Traps for the collection and distribution of pollen in orchards. *Mich. Agr. Expt. Sta. Q. B.* 31: 12-21. Aug. 1948. 100 M58S
- 1149 LECLERC, H. Les fruits de France et les principaux fruits des colonies; historique, diététique et thérapeutique. Ed. 2, rev., and enl. Paris, LeGrand, 1947? 376 p. 93.05 L492
- 1150 MASSACHUSETTS FRUIT GROWERS' ASSOCIATION, INC. Report of the fifty-fourth annual meeting, January 6, 7, 1948. n. p., 1948. 138 p. 81 M384
- 1151 MAURER, K. J. Das sämlingsunterlagenproblem in der praxis. *Obst- u. Gartenbau* 3: 46. Aug. 1, 1948. 80 Ob72
- 1152 MORI, H. An experiment on water-culture of fruit-trees. *Japan Fert. Weekly* 50: 3; 51: 3-4. Oct. 29-Nov. 19, 1947. 57.8 F417
- 1153 NELSON, R. C. Poda de fructificación de arboles frutales. *Cons. Agr.* 8(84), 8 p. (Cont.) July 1948. 9 C76  
Also in *Cons. Práct.* 8(151), 8 p. (Cont.) July 1948. 80 C762
- 1154 NOVOPAVLOVSKAIA, N. V. Quality of fruits of Michurin varieties of apples and grapes. (In Russian.) *Tsent. Genet. Plodovo-Ėgodnaia Lab. im. I. V. Michurina. Nauch. Otchët* 1941/1942: 237-247. 1947. 87 T78
- 1155 OBERLE, G. D. Recent developments in fruit breeding which may aid in advancing the fruit breeding program of the Virginia Agricultural Experiment Station. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 71. 1948. 500 V81
- 1156 QUEBEC. POMOLOGICAL AND FRUIT GROWING SOCIETY. Annual report, 1947. Montreal, 1948. 60 p. 82 Q3
- 1157 RICHARD, W. Une intéressante mise au point sur les cultures fruitières intensives. *Arbres et Fruits* 30: 3-10, 24. Aug. 1948. 80 Ar1  
Also in *Agriculture [Paris]* 12: 301-304. Sept. 1948. 14 Ag 823
- 1158 ROSAND, J. Quelques conseils sur le choix des greffons. *Réveil Agr.* 57: 245. Aug. 15, 1948. 14 R322  
Fruit.
- 1159 ROSE, F. J. A guide for fruit planters. *Gard. Illus.* 65: 192-193. Oct. 1948. 80 G169
- 1160 SERRANO, P. Why some fruits are sweet. *Agr.-Com.-Indus. Life* 10(8): 7, 24. Aug. 1948. 25 Ag8  
Superstitions in fruit culture.
- 1161 SHAW, J. K. Practical advice on growing garden fruit trees. *Horticulture* 26: 383, 396. Oct. 1948. 80 H787
- 1162 SHEWELL-COOPER, W. E. Look to the stone fruits; pruning, cracked and broken branches, brown rot and canker are some of the points which may need attention. *Smallholder* 79(2007): 13. Sept. 17, 1948. 10 Sml
- 1163 SMITH, W. W. Hardy fruitstocks. (Excerpts.) *Hoosier Hort.* 30: 142-144. Sept. 1948. 81 In2H
- 1164 SNYDER, J. C. There's a knack to apple picking. *Farm J.* 72(10): 42. Oct. 1948. 6 F2212
- 1165 TEICHMAN, W. W. Building strong trees. *Amer. Fruit Grower* 68(10): 12-13, 23, 26. Oct. 1948. 80 G85
- 1166 TERRY, H. B. Treatment of young fruit trees. *Farming So. Africa* 23: 414, 422. June 1948. 24 So842
- 1167 TSENTRAL'NAIA GENETICHESKAIA PLODOVO-ĖGODNAIA LABORATORIJA IMENI I. V. MICHURINA. *Nauchnyi otchët* 1941/1942 [Scientific report]. Moskva, "Sel'khozgiz," 1947. 246 p. 87 T78  
Breeding fruit and berries.
- 1168 WENCK, F. Nichtaustreiben von obstdäumen. *Obst- u. Gartenbau* 3: 45. Aug. 1, 1948. 80 Ob72
- 1169 WHITEHEAD, S. B. Harvesting and storing the fruit crop. *Pop. Gard.* 50: 248, 252. Sept. 4, 1948. 80 G1622
- 1170 WRIGHT, P. H. Record of layering fruit trees. *Gard. Chron. Amer.* 52: 282. Oct. 1948. 80 G1632
- 1171 ZWEIGELT, F. Warum gehen heuer so viele obstdäume ein? *Gart.-Z. Illus. Flora* 71: 109-111. Aug. 1948. 80 G1991
- 1172 BIAGINI, E. Fig culture. (In Italian.) *Humus* 4: 30-31. Jan. 1948. 16 H88
- 1173 BISCHOFF, W. H. Guinea pig grove: science seeks improved Florida oranges in "test tube" program of growing trees. *Citrus [Tampa]* 11: 12-14. Sept. 1948. 80 C498
- 1175 CAMERON, A. E. Winter grapefruit drop: promising results from 2-4D sprays. *Citrus News* 24: 125. Aug. 1948. 80 C494
- 1176 CAMERON, S. H., and HODGSON, R. W. Crowded citrus orchards; preliminary studies to determine effect of pruning practices in dense groves. *Calif. Agr. [Calif. Sta.]* 2(10): 9, 14. Oct. 1948. 100 C12Cag
- 1177 CARRANTE, V. Ovular production of the olive. (In Italian.) *Olearia* 2: 474-495. Ref. July 1948. 307.8 OL2  
Propagation.
- 1178 COLLINS, J. L. Pineapples in ancient America. *Sci. Monthly* 67: 372-377. Nov. 1948. 470 Sci23
- 1179 CONDIT, I. J. Figs in Turkey. *Calif. Farmer, North. Ed.* 189: 218-219. Sept. 11, 1948. 6 C126
- 1180 CROCE, F. M. Debe difundirse el cultivo del banano. *Chacra* 18(215): 64-66. Sept. 1948. 9 C34
- 1181 GONZÁLEZ LIMA, D. Obtención de frutos con muy pocas semillas en la Carica papaya (fruta bomba). *Soc. Cubana de Bot. Rev.* 4: 71-72. July/Sept. 1947. 451 So123
- 1182 GREENWAY, P. J. The papaw or papaya. *East African Agr. J.* 13: 228-233. Ref. Apr. 1948. 24 Ea74
- 1183 HARTMANN, H. T. Olive yields. *Calif. Agr. [Calif. Sta.]* 2(10): 10, 12. Oct. 1948. 100 C12Cag
- 1184 HODGSON, R. W. Alternate bearing of avocado may be corrected eventually by one of two possible solutions to problem. *Calif. Agr. [Calif. Sta.]* 2(9): 5, 16. Sept. 1948. 100 C12Cag
- 1185 JUILLARD, N. Influence du porte-greffe et du milieu sur la composition chimique des oranges Valencia et des grapefruits Marsh Seedless. *Fruits d'Outre Mer* 3: 299-303. (To be cont.) Aug./Sept. 1948. 80 F9492
- 1186 LAL, M. Raising of citrus nurseries in N.-W. F. Province. North-West Frontier Prov., India. *Dept. Agr. Q. Notes* 9: 12-21. Jan./Apr. 1947. 22 N814
- 1187 MORTENSEN, E. La dátilicultura en Texas. *Hacienda* 43(10): 54, 56. Oct. 1948. 6 H11
- 1188 MURAYAMA, S. J. Citrus culture. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 203-205. July/Aug. 1948. 9.2 R324
- 1189 RASHID, M. A. Seville orange as a root stock. North-West Frontier Prov., India. *Dept. Agr. Q. Notes* 9: 21-24. Jan./Apr. 1947. 22 N814
- 1190 RUEHLE, G. D. The common guava—a neglected fruit with a promising future. *Econ. Bot.* 2: 306-325. July/Sept. 1948. 450 Ec7
- 1191 RUTHERFORD, D. M. Report from Zebediela [Union of South Africa]. *Calif. Citrog.* 33: 518, 554-556. Oct. 1948. 80 C125
- 1192 SELTZER, R. E. Make study of desert grapefruit industry. *Citrus Leaves* 28(10): 8-9, 28-30. Oct. 1948. 80 C492
- 1193 SINDICATO VERTICAL DE FRUTOS Y PRODUCTOS HORTÍCOLAS. The fruits of Spain: the Canary-Island banana. Madrid, Rollan, 1948? 31 p. 93.42 Si6
- 1194 SOUTHWICK, R. Citrus problems in central California. *Calif. Citrog.* 33: 519, 535. Oct. 1948. 80 C125
- 1195 SPERONI, H. A. La Argentina dejará de ser o será un país citrícola? *Corp. Frutícola Argentina. Rev. Ofic.* 14(162): 11-15. June 30, 1948. 83 C81
- 1196 TKATCHENKO, B. Écologie de l'ananas dans le Sud-Indochinois. *Fruits d'Outre Mer* 3: 284-289. Ref. Aug./Sept. 1948. 80 F9492
- 1197 TONDU, P. Culture & industrialisation de l'ananas dans nos territoires d'outre-mer. Marseille. *Inst. Colon. Cahiers Colon., n. s.,* 1948(1): 6-21. Jan. 1948. 286.8 M35
- 1198 VENKITASUBBAN, C. S. A campaign on Nendrum plantain cultivation in Cochin. *Indian Farming* 9: 113-115. Mar. 1948. 22 In283  
Variety of banana.
- 1199 WAGER, V. A. The citrus industry in Australia. III-IV. *Citrus Grower* 175: 1-2; 176: 1-3. Aug. 31-Sept. 30, 1948. 80 C495  
Queensland and New South Wales.

#### Fruits--Citrus and Subtropical

- 1172 BALDACCI, E. Sicily, land of citrus fruits. (In Italian.) *Sci. e Lav.* 3: 144-145. Aug. 1948. 475 Sci27



1200 WALLACE, G. B. The establishment and running of a papaw plantation. East African Agr. J. 13: 234-239. Apr. 1948. 24 Ea74

1201 WILLS, J. M. Passion fruit growing in southern Queensland. Queensland Agr. J. 66: 325-350. June 1948. 23 Q33

#### Fruits--Deciduous

1202 AKKER VAN DEN. Peaches under glass. (In Flemish.) Cult. en Handel 14: 502. Aug. 1948. 80 C892

1203 BONZ, G. Der brettacher. Obst- u. Gartenbau 3: 45. Aug. 1, 1948. 80 Ob72  
An apple variety.

1204 BRYDEN, J. D. Apple tree pruning systems. Farmer & Dairyman 40(498): 31. July 1948. 23 F225

1205 CARRE, G. La taille Lorette. Paris, Maison Rustique, 1948. (Leçon d'Arboriculture Fruitière) 30 p. 93.5 C23

1206 CHERNENKO, S. F. New selected varieties of apples. (In Russian.) TSent. Genet. Plodovo-Ĭagodnaĭa Lab. im. I. V. Michurina. Nauch. Otkhēt 1941/1942: 79-126. 1947. 87 T78

1207 CROCE, F. M. El nispero europeo. Vinos, Viñas y Frutas 44(514): 33, 35, 37-38. July 1948. 9 Ag89

1208 DULLUM, N. Trials of rootstocks and fruit varieties in Scandinavia. (In Danish.) Nord. Jordbrugsforsk. 1948: 364-368. 11 N752  
Discussion, p. 368-370.

1209 ENIKEEV, KH. K., and ZHUKOV, S. V. Economic and biological description of Michurinite and local varieties of stone fruits (cherry, plum and apricots). (In Russian.) TSent. Genet. Plodovo-Ĭagodnaĭa Lab. im. I. V. Michurina. Nauch. Otkhēt 1941/1942: 127-166. 1947. 87 T78

1210 ENIKEEV, KH. K. Use of method of pollination with pollen mixture in interspecific hybridization of stone fruit species. (In Russian.) TSent. Genet. Plodovo-Ĭagodnaĭa Lab. im. I. V. Michurina. Nauch. Otkhēt 1941/1942: 47-78. 1947. 87 T78

1211 GARDNER, V. R., and TOENJES, W. Strain differences in the Montmorency cherry. Mich. Agr. Expt. Sta. Q. B. 31: 83-90. Aug. 1948. 100 M58S

1212 GERRITSEN, C. J. How do we acquire new and better varieties? (In Dutch.) Tuinbouw 3: 230-233. Sept. 1948. 80 T815  
Fruit.

1213 GORSHKOVA, T. A. Hybrids of apple and pear. (In Russian.) TSent. Genet. Plodovo-Ĭagodnaĭa Lab. im. I. V. Michurina. Nauch. Otkhēt 1941/1942: 215-217. 1947. 87 T78

1214 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Rootstocks for apples and pears. Gt. Brit. Min. Agr. and Fisheries. Advisory Leaflet 335, 4 p. Aug. 1948. 10 G79La

1215 HAAS, P. G. DE. Vegetativ vermehrbare birnenunterlagen. Züchter 17/18: 402-411. Ref. Oct./Dec. 1947. 442.8 Z8

1216 HIEMELEERS, J. What fruit varieties shall we bud? (In Flemish.) Tuinbouwberichten 12: 108-110. July 15, 1948. 80 T817

1217 ĬAKOVLEV, P. N. Breeding of new variety of peaches for Voronezh and Tambov Regions. (In Russian.) TSent. Genet. Plodovo-Ĭagodnaĭa Lab. im. I. V. Michurina. Nauch. Otkhēt 1941/1942: 32-39. 1947. 87 T78

1218 ĬAKOVLEV, P. N. Intrageneric hybridization of Prunus salicina LDL. (Pr. triflora Roxb) with Prunus persica—one of the prospective methods of producing new frost resistant northern peaches. TSent. Genet. Plodovo-Ĭagodnaĭa Lab. im. I. V. Michurina. Nauch. Otkhēt 1941/1942: 40-46. 1947. 87 T78

1219 JOUGAN, E. Multiplication et formation des pommiers à cidre. Monit. Agr. 1(24): 6; (25): 6. June 27-July 4, 1948. 14 M744

1220 JOUGAN, E. Plantons des pruniers pour la consommation familiale. Monit. Agr. 1(33): 7. Aug. 29, 1948. 14 M744

1221 KHARITONOVA, E. N. Selection of high quality cherry varieties. (In Russian.) TSent. Genet. Plodovo-Ĭagodnaĭa Lab. im. I. V. Michurina. Nauch. Otkhēt 1941/1942: 167-182. 1947. 87 T78

1222 MAINE STATE POMOLOGICAL SOCIETY. Annual report, 1948. Augusta, 1948. 61 p. 81 M28

1223 MARIN, L. Cultivo del durazno. Rev. de Agr. [Costa Rica] 20: 347-351. Sept. 1948. 8 Es1

1224 MARTIN-HEIDELBERG, K. Ist der pfirsichschnitt erforderlich? Gartenjahr 3: 115-118. Aug. 1948. 80 G1932

1225 MAURER, K. J. Grundsätzliches über den "weissen klarapfel." Gartenjahr 3: 120-122. Aug. 1948. 80 G1932

1226 NOVOPAVLOVSKAĬA, N. V. Description of the quality of fruits of the new selected varieties developed at the TSentral'naĭa Geneticheskaja Laboratoriĭa imeni I. V. Michurina. (In Russian.) TSent. Genet. Plodovo-Ĭagodnaĭa Lab. im. I. V. Michurina. Nauch. Otkhēt 1941/1942: 226-236. 1947. 87 T78

1227 RASMUSSEN, E. J. Orchard practices influencing the yield of quality of apples. Maine State Pomol. Soc. Ann Rpt. 75: 40-48. 1948. 81 M28

1228 SAVIDGE, C. Cider orchard commentary: renovating old trees. Fruit-Grower 106: 490. Oct. 14, 1948. 80 F941

1229 SHEWELL-COOPER, W. E. Harvesting apples. Field 192: 303. Sept. 11, 1948. 10 F45

1230 SHEWELL-COOPER, W. E. When picking apples and pears for keeping, treat them more carefully than eggs. Smallholder 79(2006): 13. Sept. 10, 1948. 10 Sm1

1231 STARK, P., JR. Better sports. Hoosier Hort. 30: 138-140. Sept. 1948. 81 In2H  
Fruit.

1232 THIES, W. H. The Red Apple Club. Mass. Fruit Growers' Assoc. Rpt. 54: 22-23. 1948. 81 M384

1233 TOMALIN, T. E. Apples for dessert and cooking. Pop. Gard. 50: 261. Sept. 11, 1948. 80 G1622

1234 TOMALIN, T. E. These are the best pears for a small garden. Pop. Gard. 50: 248. Sept. 4, 1948. 80 G1622

#### Fruits--Small

1235 ANDRÉ, A., and CHARLES, G. Essai de contrôle de maturité en Beaujolais. Potasse 22: 126-128. July/Aug. 1948. 57.8 P84  
Grapes.

1236 BAILEY, J. S. Problems in growing cultivated blueberries. Mass. Fruit Growers' Assoc. Rpt. 54: 122-126. 1948. 81 M384

1237 BLETON, C. Les causes du dépérissement du vignoble marocain. Terre Maroc. 18: 203-206. Aug. 1948. 24 T44

1238 BLETON, C. Viticulture: propos et opinion sur les hybrides producteurs directs. Terre Maroc. 17: 436-440. Dec. 1947. 24 T14

1239 BRUNO, B. "Favorita d'Alba" and the grape problem. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 136-137. July 31, 1948. 16 C72

1240 CLARK, R. R. Oregon's plant improvement and certification program for small fruits and berries. Oreg. Dept. Agr. B. 159: 13-14. Sept. 1948. 2 Or3

1241 COSMO, I. Correlation between topophysis and quality of rooted cuttings of vine rootstocks. 1. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 383-396. 1948. 16 An76  
English summary.

1242 DALMASSO, G. Grape culture in Turkey. (In Italian.) Humus 4(2): 31-33. Feb. 1948. 16 H88

1243 DEGRULLY, P. Le grappillage. Prog. Agr. et Vitic. 1948: 123-125. Sept. 5/12, 1948. 14 P94

1244 DESFLASSIEUX, A. Raisins de table. Prog. Agr. et Vitic. 1948: 159-165. Sept. 19/26, 1948. 14 P94

1245 DRUMMOND-GONÇALVES, R. General care of the vineyard. (In Portuguese.) Rev. Rur. Bras. 28 (333): 26. June 1948. 9.2 B733

1246 FABIANI, L. Table grapes at the Piacenza conference and show. (In Italian.) Gior. di Agr. 58: 232. Aug. 29, 1948. 16 It1G

1247 FONTANAUD. Contribution à l'étude de l'époque de la taille du vignoble marocain. Terre Maroc. 17: 410. Nov. 1947. 24 T44

1248 FRANKLIN, H. J. Cranberry growing in Massachusetts. Mass. Agr. Expt. Sta. B. 447, 44 p. Apr. 1948. 100 M38H

1249 FRENCH, A. P. Strawberry and red raspberry varieties for Massachusetts. Mass. Fruit Growers' Assoc. Rpt. 54: 112-114. 1948. 81 M384

1250 GALIBERT, A. Un porte-greffe de grand avenir: le Malègue 44-53. Réveil Agr. 57: 242-243. Aug. 15, 1948. 14 R322  
Grapes.



- 1251 GALLAY, R. Stations Fédérales d'Essais Viticoles, Arboricoles et de Chimie Agricole, à Lausanne et à Pully. Rapport d'activité 1947. Landw. Jahrb. der Schweiz 62: 555-660. 1948. 17 L23
- 1252 GIRARDI, R. J. Dem rebstock geheimnisse entlockt. Gart.-Z. Illus. Flora 71: 112. Aug. 1948. 80 G1991
- 1253 GRIEBEL, H. Pflege und beandlung der beerenobstgehölze im sommer. Gart.-Z. Illus. Flora 71: 122-123. Aug. 1948. 80 G1991
- 1254 HANSEN, H. F. Strawberry plant culture. (In Danish.) Haven 48: 128. Aug./Sept. 1948. 80 H29
- 1255 HARRIS, J. H. Blueberries will grow where blackberries do. South. Agr. 77, i. e., 78(10): 70. Oct. 1948. 6 So83
- 1256 HOBBS, E. W. Blackcurrants in the South-West. Grower 30: 371, 373-374. Sept. 4, 1948. 286.83 M34
- 1257 HOCKEY, K. C. Pruning of small fruits. New Zeal. Gard. 4: 803, 805, 807. Aug. 2, 1948. 80 N4822
- 1258 JOHNSON, A. T. Berries that survive. Gard. Illus. 65: 186-187. Oct. 1948. 80 G169
- 1259 JUDKINS, W. P. Results of experiments with raspberries and strawberries in Ohio. Mass. Fruit Growers' Assoc. Rpt. 54: 101-105. 1948. 81 M384
- 1260 KOSINSKY, V. Les problèmes techniques actuels des vignobles hongrois. Prog. Agr. et Vitic. 1948: 8-11. (To be cont.) July 4/11, 1948. 14 P94  
Translated by D. Kasza.
- 1261 KRIMBAS, B. Ampélographie hellénique. Prog. Agr. et Vitic. 1948: 130-136. (Concl.) Sept. 5/12, 1948. 14 P94  
Translated by P. Marcout.
- 1262 KUZ'MIN, A. I., SHIRIAEV, A. M., and KORNIEVA, M. S. Selection of high quality raspberry varieties for the central area of the Soviet Union. (In Russian.) TSent. Genet. Plodovo-Iagodnaia Lab. im. I. V. Michurina. Nauch. Otkhët 1941/1942: 218-225. 1947. 87 T78
- 1263 LABAT, C., and PANCHAUD, J. Note sur la greffe "mayorquine." Terre Maroc. 18: 206-208. Aug. 1948. 24 T44
- 1264 LEYVRAZ, H. L'encépagement du vignoble romand et la culture des variétés à raisins rouges de cuve. Rev. Romande d'Agr., de Vitic. et d'Arbor. 4: 59-62. Aug. 1948. 17 J82A
- 1265 MARTÍNEZ ZAPORTA, M. Seis años de experiencias sobre enraizamiento de portainjertos. Spain. Inst. Nac. de Invest. Agron. B. 18: 1-140. Ref. June 1948. 105.6 Sp14  
English, French, and German summaries.  
Grapes.
- 1266 MENON, H. B. El cultivo de la fresa. Cuba. Min. de Agr. Rev. (ser. 6) 31(1): 36-42. Jan./June 1948. 8 Ag88Re
- 1267 MIRO ESPLUGAS, M. El viticultor y las crisis vitícolas. Cult. Mod. 31: 214-215. June 1948. 15 C89
- 1268 NARDIN E., J. Injertos en la vid. Campo [La Paz] 2(12): 28-32. Apr. 1948. 9.1 C15
- 1269 NORBURY, C. P. Raising loganberries from seed. Worcestershire Agr. Chron. 16: 323, 325. Aug. 1948. 10 W892
- 1270 RANDLE, P. Red currants for the future. Amateur Gard. 65(3356): 14. Sept. 7, 1948. 80 Am13
- 1271 ROBERTS, O. C. Grapes in Massachusetts fruit growing. Mass. Fruit Growers' Assoc. Rpt. 54: 110-112. 1948. 81 M384
- 1272 SANGERS, W. J. Development of grape culture in the Netherlands. (In Dutch.) Tuinbouw 3: 237-240. Sept. 1948. 80 T815
- 1273 SCHELLENBERG, A. Wir haben beim Blauen Burgunder immer noch zu viele schlechte reben. Schweiz. Z. f. Obst- u. Weinbau 57: 368-369. Oct. 9, 1948. 80 Sch9
- 1274 SHASHKIN, I. N. New varieties of strawberries; problems of interspecific hybridization. (In Russian.) TSent. Genet. Plodovo-Iagodnaia Lab. im. I. V. Michurina. Nauch. Otkhët 1941/1942: 205-212. 1947. 87 T78
- 1275 SHEWELL-COOPER, W. E. Don't count your grapes before they're ripe. Smallholder 79(2003): 11. Aug. 20, 1948. 10 Sml  
Grape culture.
- 1276 SHEWELL-COOPER, W. E. Early planted strawberries yield heavier crops. Smallholder 79(2004): 11. Aug. 27, 1948. 10 Sml
- 1277 SLATE, G. L. Fall planting of strawberries. Farm Res. [N. Y. State Sta.] 14(4): 1. Oct. 1948. 100 N48A  
Similar title in Rural New-Yorker 98: 571, 573. Sept. 18, 1948. 6 R88
- 1278 SMITH, M. S. Strawberries in the Mid-South. Gard. Chron. Amer. 52: 276-277. Oct. 1948. 80 G1632
- 1279 SQUADRONI, G. Grapes: New cultural methods for an old plant. (In Italian.) Terra e Sole 69/70: 674-676. Sept. 1948. 16 T273
- 1280 STE-MARIE, C. E. La plantation des framboisiers. Terre de Chez Nous 20(51): 12. Sept. 15, 1948. 7 T27
- 1281 STRONG, W. J. Currants and gooseberries. Ontario Dept. Agr. B. 440, rev., 19 p. Sept. 1948. 101 On8B
- 1282 THIES, W. H. Factors affecting the yield of strawberries. Mass. Fruit Growers' Assoc. Rpt. 54: 106-109. 1948. 81 M384
- 1283 TOLMACHEV, I. A. Hybridization of currants with gooseberries. (In Russian.) TSent. Genet. Plodovo-Iagodnaia Lab. im. I. V. Michurina. Nauch. Otkhët 1941/1942: 194-200. 1947. 87 T78
- 1284 VIDAL, J. P. Les cepages blancs du Maroc. Terre Maroc. 17: 404-409. Nov. 1947. 24 T44  
Grapes.
- 1285 WILSON, J. Grape growing in cold houses. Roy. Hort. Soc. J. 73: 345-352. Oct. 1948. 84 L84J
- 1286 ZAKHAROVA, E. I. Selection of frost resistant rootstocks for grapes in the northern districts. (In Russian.) TSent. Genet. Plodovo-Iagodnaia Lab. im. I. V. Michurina. Nauch. Otkhët 1941/1942: 183-193. 1947. 87 T78

## Nuts

- 1287 ALLAMAN, R. P. Planting of nut trees on highways undesirable. Pa. Nut Growers Assoc. Proc. 16: 21-22. 1948. 94.69 P38
- 1288 AMIZET, L., and AMIZET, A. Contribution à l'étude de l'amandier en Afrique du Nord: de la pollinisation. Colon Franç. de Tunisie 58(2063): 1, 3. Sept. 4, 1948. 24 C712
- 1289 ANDERSON, C. C. Why early and rapid harvest is necessary this season. Diamond Walnut News 30(5): 1-2. Sept. 1948. 94.68 D34
- 1290 CARNEVALE, J. A. El almendro. Pampa Argentina 22(252): 10-11. Aug. 1948. 9 P19
- 1291 CHAPLIAEV, S. K. Breeding new nut varieties. (In Russian.) TSent. Genet. Plodovo-Iagodnaia Lab. im. I. V. Michurina. Nauch. Otkhët 1941/1942: 201-204. 1947. 87 T78
- 1292 FRANCE. DIRECTION DE LA PRODUCTION AGRICOLE. L'amandier. Paris, Enquête Fruitière, 1948. 48 p. 94.61 F84
- 1293 HASHIM, A. S. M. Growing of pistachio (Pistacia vera) in Iran and its possibilities in N. W. F. Province. North-West Frontier Prov., India. Dept. Agr. Q. Notes 9: 9-12. Jan./Apr. 1947. 22 N814
- 1294 HERSHEY, J. W. The relation of country living to national security. Pa. Nut Growers Assoc. Proc. 16: 14-20. 1948. 94.69 P38  
Chiefly nut trees.
- 1295 MILLIMAN, L. H. Nut growers study latest orchard practices. Better Fruit 43(4): 7, 10. Oct. 1948. 80 B46
- 1296 PENNSYLVANIA NUT GROWERS ASSOCIATION. Report of the proceedings of the sixteenth annual meeting, Pennsylvania Farm Products Show, Harrisburg, Penna., January 15, 1948. n. p., 1948. 22 p. 94.69 P38

## Shade Trees and Ornamental Plants

- 1297 ABBOTT, H. T. Hardy Chrysanthemums for the Northwest. Plants & Gard. (n. s.) 4: 156-159. Autumn 1948. 450 P694
- 1298 ABBOTT, H. T. Trees of proven worth in eastern Washington. Arboretum B. 11(3): 30-32. Fall 1948. 451 Ar1
- 1299 ACEDARACH, M. Las rosas para perfumería. Cult. Mod. 31: 221-222. June 1948. 15 C89
- 1300 ADAMS-ACTON, M. A garden re-styled. Gard. Illus. 65: 188-189. Oct. 1948. 80 G169
- 1301 ALLEN, D. L. "Hunter management" with multiflora rose. J. Wildlife Mangt. 12: 325-326. July 1948. 410 J827  
As a hedge.
- 1302 AMEEL, E. C. Gray foliage enhance the perennial border. Flower Grower 35: 768-769. Oct. 1948. 80 M72



- 1303 ANDERSON, A. W. Some New Zealand brooms. *Gard. Chron.* 124: 100-101. Sept. 25, 1948. 80 G162  
Carmichaelia, Chordospartium, Coralliospartium, and Nothospartium.
- 1304 ARNOLD, R. E. Masdevallia estradae. *Orchid Rev.* 56: 137-138. Sept. 1948. 80 Or15
- 1305 ARNOLD, R. E. Orchis maculata. *Orchid Rev.* 56: 158-159. Oct. 1948. 80 Or15
- 1306 ASHWORTH, D. Bulbs for the farm yard. *Successful Farming* 46(10): 114, 128. Oct. 1948. 6 Sul2  
Culture.
- 1307 AUTEN, E., JR. How to divide peony roots. *Plants & Gard. (n. s.)* 4: 185-187. Autumn 1948. 450 P694
- 1308 BAIRD, T. J. How to plant your big window. *Better Homes & Gard.* 27(2): 291-292. Oct. 1948. 80 F9424
- 1309 BAKER, B. G. The virtue of the straight line. *My Gard.* 37: 181-183. Aug. 1948. 80 M995  
Landscape gardening.
- 1310 BALTHIS, F. K. Growing good house plants: you can succeed, too. *Horticulture* 26: 368. Oct. 1948. 80 H787
- 1311 BARTON, G. Forcing roses in pots. *Fruit-Grower* 106: 425-426. Sept. 30, 1948. 80 F941
- 1312 BEACH, R., and ALGER, J. New watering methods lead to reduction in operating costs: carnations feature in research experiments. *Florists Exch.* 111(16): 19. Oct. 16, 1948. 80 F666
- 1313 BEALS, H. A. How to propagate your own auratum lilies. *Flower Grower* 35: 766-767. Oct. 1948. 80 M72
- 1314 BECK, C. Culture of Fritillaries. *Gard. Illus.* 65: 190. Oct. 1948. 80 G169
- 1315 BIEDER, J. Lilies are easy to grow. *Organic Gard.* 13(4): 40-42. Oct. 1948. 56.8 Or3
- 1316 BEECK, A. O. DE. General observations on rose growing. (In Flemish.) *Cult. en Handel* 14: 567-568. Sept. 1948. 80 C892
- 1317 BENSON, C. W. Varietal comments. *Amer. Iris Soc. B.* 110: 94-97. July 1948. 81 Am39
- 1318 BERRY, G. H. The hybrid bogey. *Alpine Gard. Soc. Q. B.* 16: 190-196. Sept. 1948. 84 AL6
- 1319 BEVAN, R. Kashmir diary. 3. *Alpine Gard. Soc. Q. B.* 16: 197-201. Sept. 1948. 84 AL6
- 1320 BINGLEY, L. T. Meet the Cornus family. *Gard. Chron. Amer.* 52: 267-268. Oct. 1948. 80 G1632
- 1321 BIRCH, C. H. Parentage meanderings. *North Amer. Gladiolus Council. B.* 15: 45. Sept. 1948. 96.43 N81
- 1322 BLACKBURN, B. Plant for permanence: the eastern wahoo [*Euonymus atropurpureus*]. *Flower Grower* 35: 746-747. Oct. 1948. 80 M72
- 1323 BLOSSFELD, R. Grafting Cacti. *Cactus & Succulent J.* 20: 136-138. Sept. 1948. 451 C11
- 1324 BOGAERT, L. VAN DEN. Pourquoi un jardin d'essai belge? Ses résultats. *B. Hort. (n. s.)* 3: 301-303. Oct. 1, 1948. 80 B873  
Dahlia.
- 1325 BOOTHMAN, S. Rock garden conifers. 2-4. *Nurseryman & Seedsman* 105(28): 24-25; (29): 24-25; (30): 24-25, 28. July 10-24, 1947. 80 N933
- 1326 BRECHT, P. Orchid seedlings from the flask to the mature plant. *Orchid Digest* 12: 183. (To be cont.) July/Aug. 1948. 80 Or172
- 1327 BREDDY, N. C. Cymbidiums in America. *Orchid Rev.* 56: 139-140. Sept. 1948. 80 Or15
- 1328 BREITHAUP, L. Hardy perennial Asters. *Plants & Gard. (n. s.)* 4: 148-151. Autumn 1948. 450 P694
- 1329 BROCKIE, W. B. New Zealand legumes: plants of strange beauty and unusual character. *New Zeal. Gard.* 4: 775-777. Aug. 2, 1948. 80 N4822
- 1330 BROEN, M. La multiplicación de la Dalia. *Chacra* 18(215): 72-73, 152. Sept. 1948. 9 C34
- 1331 BROLEY, M. J. Orchids grow wild in Canada. *Forest & Outdoors* 44(9): 19. Sept. 1948. 99.8 C16
- 1332 BROOKS, M. Allegheny blossoms. *Gard. Club Amer. B. (ser. 11)* 10: 21-27. Sept. 1948. 90.32 G16
- 1333 BROWN, B. A. Grasses for lawns, parks and athletic fields. *Conn. Agr. Col. Ext. Folder* 22, 8 p. Mar. 1948. 275.29 C76Ex
- 1334 BUCH, P. O. For that new look in spring gardens try hardy Gladiolus. *Flower Grower* 35: 786-787. Oct. 1948. 80 M72
- 1335 BUFFETT, E. M. Cacti as house plants. *Back to Eden* 14(11): 7-8. Aug. 1948. 80 B12
- 1336 BURNE, W. R. Some notes on early flowering Chrysanthemums. II. *North. Gard.* 2: 483-484. Aug. 1948. 80 N816
- 1337 BURTT, B. L. Crocus niveus. *Gard. Chron.* 124: 134-135. Oct. 23, 1948. 80 G162
- 1338 CADNEY, R. G. Plants that have been seldom mentioned in the Bulletin. *Alpine Gard. Soc. Q. B.* 16: 219-222. Sept. 1948. 84 AL6
- 1339 CAMPBELL, W. I. P. The cascade Chrysanthemum. *Parks & Recreation* 31: 593-596. Oct. 1948. 98.8 P23
- 1340 CARRELL, MRS. E. Gesnerias. *Begonian* 15: 202-204. Sept. 1948. 96.511 B39
- 1341 CARSON, C. M. New style for lawns. *Sun-up* 3(4): 16, 23. Oct./Nov. 1948. 80 Su7
- 1342 CAUGHEY, R. Use native plants for autumn color. *Horticulture* 26: 373-374. Oct. 1948. 80 H787
- 1343 CAYEUX, L. L'art d'obtenir des variétés nouvelles. *B. Hort. (n. s.)* 3: 299-300. Oct. 1, 1948. 80 B873  
Of Dahlia.
- 1344 CHEVALIER, C. Histoire et évolution. *B. Hort. (n. s.)* 3: 287-289, 303. Oct. 1, 1948. 80 B873  
Of Dahlia.
- 1345 CHEVALIER, R. Culture. *B. Hort. (n. s.)* 3: 293-295. Oct. 1, 1948. 80 B873  
Of Dahlia.
- 1346 CHIDAMIAN, C. Dwarfed trees: an ancient art returns to popularity. *Home Gard. So.* 8: 220-221. Oct. 1948. 80 H755
- 1347 CONRADI, R. Tulipa Fosteriana. (In Norwegian.) *Norsk Hagetidend* 64: 161-164. Sept. 1/15, 1948. 80 N81
- 1348 COOK, L. Autumn care of carnations. *Amateur Gard.* 65(3357): 10. Sept. 14, 1948. 80 Am13
- 1349 COOK, L. Perpetual carnations of character. *Amateur Gard.* 65(3854): 10. Aug. 24, 1948. 80 Am13
- 1350 COOK, M. L. Morning glories 'round my door. *Back to Eden* 14(11): 1-2. Aug. 1948. 80 B12
- 1351 COON, N. Difficult but rewarding: the challenging violet. *Horticulture* 26: 377. Oct. 1948. 80 H787
- 1352 COOPER, E. Eria coronaria. *Orchid Rev.* 56: 151-152. Oct. 1948. 80 Or15
- 1353 COOPER, E. Orchid species too often overlooked. *Orchid Rev.* 56: 142-144, 156-157. (Cont.) Sept.-Oct. 1948. 80 Or15
- 1354 COOPER, E. Trichopillia sanguinolenta. *Orchid Rev.* 56: 154. Oct. 1948. 80 Or15
- 1355 COPLEY, G. H. Guide to home bulb-growing; advice on the buying of hyacinth and iris bulbs and how to force bulbs into bloom for Christmas. *Smallholder* 79(2004): 8. Aug. 27, 1948. 10 Sm1
- 1356 COPLEY, G. H. Housing lifted Chrysanthemums. *Nurseryman & Seedsman* 107: 948-949. Sept. 30, 1948. 80 N933
- 1357 COPLEY, G. H. When buying tulip bulbs. *Smallholder* 79(2003): 7. Aug. 20, 1948. 10 Sm1
- 1358 CORBETT, W. C. Advice to pot plant growers. *Nurseryman & Seedsman* 105(35): 24-25. Aug. 28, 1947. 80 N933
- 1359 COUTTS, J. Self-sown seedlings. *Gard. Chron.* 124: 118. Oct. 9, 1948. 80 G162  
Ornamental plants.
- 1360 CULPEPPER, D. Don't forget Fuchsias this winter. *Begonian* 15: 209. Sept. 1948. 96.511 B39
- 1361 CUMMING, R. Chrysanthemum varieties. *Horticulture* 26: 376. Oct. 1948. 80 H787
- 1362 CUMMINGS, M. B. Persian clover? *Organic Gard.* 13(4): 27. Oct. 1948. 56.8 Or3  
Vetch.
- 1363 CURRIE, C. W. The Gladiolus, hoy! *North Amer. Gladiolus Council. B.* 15: 27, 29, 31, 33, 35. Sept. 1948. 96.43 N81
- 1364 CURTIS, A. E. Breeding the oriental poppy (and a few experiments with other flowers). *Gard. Club Amer. B. (ser. 11)* 10: 3-8. Sept. 1948. 90.32 G16
- 1365 CURTIS, C. H. Flower lovers had their fill. *Grower* 30: 449. Sept. 18, 1948. 286.83 M34  
Shows in Great Britain.
- 1366 CUTAK, L. What is a succulent? *Mo. Bot. Gard. B.* 36: 111-118. Sept. 1948. 451 M69B
- 1367 DAKERS, J. S. The butterfly flower [Schizanthus]. *Amateur Gard.* 65(3353): 8. Aug. 17, 1948. 80 Am13



- 1369 DAKERS, J. S. Lesser-grown bulbs of beauty. *Homes & Gard.* 30(4): 34-35, 74. Oct. 1948. 318.8 Ov7
- 1369 DAUGHENBAUGH, C. M. Growing callas outdoors. *Home Gard. So.* 8: 236. Oct. 1948. 80 H755
- 1370 DAVEY, K. L. Stubbing of trees. *Sunset* 101(4): 118, 119. Oct. 1948. 110 Su7
- 1371 DAVIES, B. Making a miniature lily pool. *My Gard.* 37: 169-172. Aug. 1948. 80 M995
- 1372 DAVIS, R. *Dendrobium victoria reginae*. *Orchid Digest* 12: 175. July/Aug. 1948. 80 Or172
- 1373 DAVIS, R. Orchids around the world: orchid culture in Manila. *Amer. Orchid Soc. B.* 17: 580-584. Oct. 1948. 80 Am329
- 1374 DAWSON, R. B. New lawns from seed. *Amateur Gard.* 65(3357): 13. Sept. 14, 1948. 80 Am13
- 1375 DEBLOIS, P. Les orchidées. *Courrier Hort.* 10: 476-477, 482. Aug. 1948. 80 C834
- 1376 DEBUSSON, J. Classification horticole. *B. Hort. (n. s.)* 3: 290-292, 305. Oct. 1, 1948. 80 B873
- Of Dahlia.
- 1377 DE GRAAFF, J. Something new has been added to double daffodils. *Flower Grower* 35: 755, 789. Oct. 1948. 80 M72
- 1378 DICKINSON, MRS. J. S. Breaking new ground. *Alpine Gard. Soc. Q. B.* 16: 233-236. Sept. 1948. 84 AL6
- Rock gardens in Rhodesia.
- 1379 DIMITRI, M. J., and RIAL ALBERTI, F. Algunos tilos cultivados en el país. *Campo y Suelo Argentino* 32(382): 28, 30. Aug. 1948. 9 C15
- 1380 DORT, H. W. V. *Pelargonium* as cut flower. (In Dutch.) *Bloemisterij* 22(38): 3. Sept. 17, 1948. 80 B624
- 1381 DRAGE, C. M. 4-H home beautification manual and record book. *Colo. Agr. Col. Ext. C.* 2096, 21 p. Mar. 1947. 275.29 C71C
- 1382 DRAYSON, G. F. Exhibiting Dahlias. *Amateur Gard.* 65(3854): 8. Aug. 24, 1948. 80 Am13
- 1383 DRAYSON, G. F. Storing Dahlia tubers. *Amateur Gard.* 65(3360): 12. Oct. 5, 1948. 80 Am13
- 1384 DRUMMOND, C. E., JR. Let's grow a few orchids. *Amer. Orchid Soc. B.* 17: 527-530. Sept. 1948. 80 Am329
- 1385 DU BREUIL, A. Facheuse et bonne manière de présenter les oeillets. *Vie à la Campagne* 37: 232-233. Aug. 1948. 80 V67
- 1386 DUNN, H. A. Panama's butterfly orchid, *Oncidium ampliatum* var. *majus*. *Amer. Orchid Soc. B.* 17: 605. Oct. 1948. 80 Am329
- 1387 EATON, E. M. Fun to make, fun to watch. *Amer. Home* 40(6): 31. Nov. 1948. 80 Am313
- Terrarium.
- 1388 EIFERT, V. S. The story of Illinois wild flowers. *Ill. Conserv.* 13(2): 8-10, 15. Summer, 1948. 279.9 IL6IL
- 1389 ELLIOTT, C. *Myosotis rupicola*. *Gard. Chron.* 124: 77-78. Sept. 4, 1948. 80 G162
- 1390 ELLIOTT, D. Colours that do not clash: simple method of using colour in the garden. *New Zeal. Gard.* 4: 784-789. Aug. 2, 1948. 80 N4822
- 1391 ELLIS, J. Trees—an aid to production. *Southwest. Crop & Stock* 2(9): 48. Sept. 1948. 6 So8942
- Landscaping for beauty and production.
- 1392 EMIGHOLZ, MRS. J. F. To extend the rainbow season—try Japanese Iris. *Amer. Iris Soc. B.* 110: 100-103. July 1948. 81 Am39
- 1393 ENE DE PIRO, M. Les Gloxinias. *Réveil Agr.* 57: 245-246. Aug. 15, 1948. 14 R322
- 1394 ENKART, V. Multiplication. *B. Hort. (n. s.)* 3: 296-298. Oct. 1, 1948. 80 B873
- Of Dahlia.
- 1395 EVERETT, T. H. Plant portraits [*Arctotus*]. *Gard. Chron. Amer.* 52: 266. Oct. 1948. 80 G1632
- 1396 EVISON, J. R. B. Heathers for autumn colour. *Amateur Gard.* 65(3360): 14. Oct. 5, 1948. 80 Am13
- Erica* and *Calluna*.
- 1397 EYSTER, W. H. Gladiolus growers prefer organic methods. *Organic Gard.* 13(4): 29-31. Oct. 1948. 56.8 Or3
- 1398 FISCHER, E. E. Trees for town gardens in the Portland [Oregon] area. *Arboretum B.* 11(3): 27-30. Fall 1948. 451 Ar1
- 1399 FITZROY, V. M. They seed themselves. *Veld Trust News* 4(12): 29. Sept. 1948. 56.8 V54
- Ornamental plants.
- 1400 FLAWN, L. N. The use of cloches means less risk in sowing annuals in autumn. *Smallholder* 79 (2004): 7. Aug. 27, 1948. 10 Sml
- 1401 FLOURNOY, MRS. R. Lilies for Georgia gardens. *Gard. Gateways* 18(2): 11. Oct. 1948. 90.32 G166
- 1402 FRIEDRIGER. *Stauden für unsere friedhöfe*. 3. *Gärt.-Kurier* 3(15): 2-3. Aug. 1, 1948. 80 G1942
- 1403 FUCHS, H. Comment présenter une exposition. *B. Hort. (n. s.)* 3: 308-309. Oct. 1, 1948. 80 B873
- Dahlia.
- 1404 FUCHS, H. Les rosiers dans nos jardins. *Paris, Maison Rustique*, 1948. 222 p. 96.1 F95
- 1405 GALLET, T. Dans la décoration des jardins. *B. Hort. (n. s.)* 3: 306-307, 311. Oct. 1, 1948. 80 B873
- Dahlia.
- 1406 GEISER, M. G. Brushings of a rainbow. *Organic Gard.* 13(5): 26-30. Nov. 1948. 56.8 Or3
- Iris varieties.
- 1407 GERMAIN, A. Plantez des tulipes. *Rustica* 21: 701. Oct. 3, 1948. 14 R92
- 1408 GODDARD, J. H. Chrysanthemums in the Midlands. *Amateur Gard.* 65(3360): 16. Oct. 5, 1948. 80 Am13
- 1409 GODDARD, J. H. Ensuring a good finish with Chrysanthemums. *Amateur Gard.* 65(3360): 13. Oct. 5, 1948. 80 Am13
- 1410 GODDARD, J. H. Exhibiting early flowering Chrysanthemums. *Amateur Gard.* 65(3353): 10, 15. Aug. 17, 1948. 80 Am13
- 1411 GODDARD, J. H. Housing Chrysanthemums. *Amateur Gard.* 65(3356): 10. Sept. 7, 1948. 80 Am13
- 1412 GOEMANS, J. A. Evolution of the modern Freesia. *Nurseryman & Seedsman* 105(34): 26-27; (35): 26-27. Aug. 21-28, 1947. 80 N933
- 1413 GORI, D. Intensive flower culture in Pistoria; summer culture of carnation. (In Italian.) *Riv. della Ortoflorofruttic. Ital.* 32: 97-101. May/June 1948. 86 R22
- 1414 GRANT, J., and GRANT, C. Do you know how to use broadleaf evergreens? *House Beautiful* 90(11): 244-245, 252, 254, 256; 273-274. Nov. 1948. 296.8 H81
- 1415 GRAVES, G. Protecting broad-leaved evergreens. *Amer. Nurseryman* 88(8): 9, 56-58. Oct. 15, 1948. 80 Am371
- 1416 GRAYSON, E. C. Sturdy, long-stemmed climbers; these long-stemmed roses are ideal for cutting and one plant will produce hundreds of blooms. *Woman's Day* 12(1): 38-39, 103, 124-127. Oct. 1948. 321.8 W842
- 1417 HALL, H. The Arum lily. *Gard. Chron.* 124: 126. Oct. 16, 1948. 80 G162
- 1418 HALLOWAY, H. R. Choosing and growing herbaceous peonies. *N. Y. Bot. Gard. J.* 49: 207-209. Sept. 1948. 451 N48J
- 1419 HAMILTON, G. H. The burning bush [*Euonymus atropurpureus*]. *Farmer's Mag.* 45(9): 10, 53. Sept. 1948. 7 C165
- 1420 HANGER, F. Rhododendrons for small gardens. *Amateur Gard.* 65(3360): 14-15. Oct. 5, 1948. 80 Am13
- 1421 HANSELL, D. E. The fascinating gentians. *Flower Grower* 35: 768. Oct. 1948. 80 M72
- 1422 HANSEN, R. J. Street trees in Seattle. *Arboretum B.* 11(3): 23-25. Fall 1948. 451 Ar1
- 1423 HARDING, A. Green mystery [Pteridophyta]. *Back to Eden* 14(11): 3. Aug. 1948. 80 B12
- 1424 HART, MRS. P. *Primula juliae* and hybrid *Juliana* forms. *Gard. Club Amer. B. (ser. 11)* 10: 9-12. Sept. 1948. 90.32 G16
- 1425 HAWKES, A. D. *Cyrtopodium andersonii*. *Orchid Digest* 12: 163-166. July/Aug. 1948. 80 Or172
- 1426 HAWKES, A. D. New Brazilian orchids. *Orchid Digest* 12: 181-182. July/Aug. 1948. 80 Or172
- 1427 HAWKINSON, L. F. Cattleyas. *Orchid Digest* 12: 159-163. July/Aug. 1948. 80 Or172
- 1428 HELLYER, A. G. L. Autumn's finest flowers. *Country Life [London]* 104: 532-533. Sept. 10, 1948. 80 C83
- 1429 HELLYER, A. G. L. Tulips in Holland. *Amateur Gard.* 65(3357): 11. Sept. 14, 1948. 80 Am13
- 1430 HENDERSON, E. S. Spring begins in October. *Gard. Chron. Amer.* 52: 262-263. Oct. 1948. 80 G1632
- Bulb planting.
- 1431 HERBST, M. New hyacinths, tulips and daffies: try these this fall. *Horticulture* 26: 375, 398. Oct. 1948. 80 H787



- 1432 HETHERINGTON, E. Some notes on the breeding of yellow Cattleyas. *Orchid Digest* 12: 167. July/Aug. 1948. 80 Or172
- 1433 HICK, A. E. Bulbs for winter forcing. *Your Gard. & Home* 2(10): 7, 15. Oct. 1948. 80 Y8
- 1434 HILLERY, W. O. September in the primrose garden. *Northwest Gard. & Homes* 16(7): 8-9. Sept. 1948. 80 N813
- 1435 HOAK, C. M. Passing of the North American Begonias in review. *Begonian* 15: 208. Sept. 1948. 96.511 B39
- 1436 HSIA, E. Orchids of the "Middle" or "Flowery Kingdom." *Orchid Digest* 12: 168-170. July/Aug. 1948. 80 Or172
- 1437 HUDSON, C. J., JR. How to grow tulips in the South. *Flower Grower* 35: 758-759, 780-781. Oct. 1948. 80 M72
- 1438 HUTSON, E., and ROLLINS, S. H. Fall wildlings on the Mississippi Gulf Coast. *Home Gard. So.* 8: 222-223. Oct. 1948. 80 H755
- 1439 INGWERSEN, W. Alpines in summer. *Amateur Gard.* 65(3353): 9. Aug. 17, 1948. 80 Am13
- 1440 INGWERSEN, W. Rock garden revival. *Nurseryman & Seedsman* 107: 950-952. Sept. 30, 1948. 80 N933
- 1441 IRIS, nun orchid [*Phaius grandifolius*] and bell flower [*Platycodon grandiflorum*]. *Food & Flowers* 1(2): 38-44. June 1948. 80 F73
- 1442 JENKINS, C. F. Ornamenting the Pennsylvania "William Penn" Highway, No. 22. *Hemlock Arboretum, Far Country. B.* 64: 3-4. Oct. 1, 1948. 97.32 H37
- 1443 JOHNSON, A. A. From parent to blooming progeny. III. *Orchid Digest* 12: 156-158, 182. July/Aug. 1948. 80 Or172
- 1444 JOHNSON, A. T. Fine flowering evergreens. *Amateur Gard.* 65(3360): 15. Oct. 5, 1948. 80 Am13
- 1445 JOHNSON, A. T. Hardy Azaleas for spring colour. *Amateur Gard.* 65(3357): 12. Sept. 14, 1948. 80 Am13
- 1446 JOHNSON, A. T. Plants of persistence. *My Gard.* 37: 125-131. Aug. 1948. 80 M995
- 1447 JOUGAN, E. Les Iris nains à bordures. *Acclimatation* 75: 181. Aug. 28, 1948. 14 Ac2
- 1448 JOUGAN, E. Pensons à nos lilas de l'année prochaine. *Acclimatation* 75: 177. Aug. 21, 1948. 14 Ac2
- 1449 JOUGAN, E. Quels arbres peut-on planter pour avoir de l'ombrage? *Acclimatation* 75: 198. Sept. 18, 1948. 14 Ac2
- 1450 KAMMERER, E. L. Some woody plants disseminated by birds. *Morton Arboretum. B. Pop. Inform.* 23: 34-37. Sept. 1948. 99.9 M84
- 1451 KAY, R. Columbines. *My Gard.* 37: 149-153. Aug. 1948. 80 M995
- 1452 KEMP, E. E. The propagation of Metasequoia by cuttings. *Roy. Hort. Soc. J.* 73: 334-335. Oct. 1948. 84 L84J
- 1453 KEYSER, R. DE. Determining cost of growing Azalea and Begonia. (In Flemish.) *Tuinbouwberichten* 12: 126-127. Aug. 15, 1948. 80 T817
- 1454 KISTLER, J. S. Garden design for a small suburban residence: transformation within a year. *Plants & Gard. (n. s.)* 4: 145-147. Autumn 1948. 450 P694
- 1455 KNIGHT, F. P. *Wistaria venusta*. *Roy. Hort. Soc. J.* 73: 331-332. Oct. 1948. 84 L84J
- 1456 KNOCK, F. Three good house plants [Begonias and *Cherita hamosa*]. *Back to Eden* 14(11): 6. Aug. 1948. 80 B12
- 1457 KORSBAEK, N. Garden analysis - why and how? (In Danish.) *Haven* 48: 126. Aug./Sept. 1948. 80 H29
- 1458 KROMDIJK, G. Culture of the common calla-lily [*Zantedeschia aethiopica*]. (In Flemish.) *Cult. en Handel* 14: 569-571. Sept. 1948. 80 C892
- 1459 KRUG, H. P. How to plant roses. (In Portuguese.) *Colheitas e Mercados* 4(3/6): 13-14. Mar./June 1948. 255.3 Sa652
- 1460 KRUYT, W. Effect of soil mixture, growth substances and other factors on the root system of cuttings. (In Flemish.) *Tuinbouwberichten* 12: 137-140. Sept. 15, 1948. 80 T817
- 1461 LAKING, L. Choice tulip species. *Your Gard. & Home* 2(10): 11. Oct. 1948. 80 Y8
- 1462 LAMBERT, N. Making sure of autumn roses. *Pop. Gard.* 50: 260. Sept. 11, 1948. 80 G1622
- 1463 LANGDON, A. G. The cultivation of *Cyclamen persicum*. *Roy. Hort. Soc. J.* 73: 322-327. Oct. 1948. 84 L84J
- 1464 LARSON, R. B. How to fell a tree. *Amer. Home* 40(6): 97-99. 80 Am313
- 1465 LAWRENCE, M. A. Favorite city trees. *Northwest Gard. & Homes* 16(7): 12-13, 31. Sept. 1948. 80 N813
- 1466 LAWS, C. L. Growing orchids in Georgia. *Gard. Gateways* 18: 1-2. Sept. 1948. 90.32 G166
- 1467 LAZENBY, K. G. Two Fritillaries from Caucasasia. *Alpine Gard. Soc. Q. B.* 16: 212-213. Sept. 1948. 84 AL6
- 1468 LEATHERMAN, S. *Begonia roxburghii*. *Begonian* 15: 201. Sept. 1948. 96.511 B39
- 1469 LEIGHTON, R. S. Let's talk about herbaceous peonies. *Arboretum B.* 11(3): 16-17, 35. Fall 1948. 451 Ar1
- 1470 LINDEN, L. VAN DER. Variety tests of *Gladiolus*. (In Flemish.) *Tuinbouwberichten* 12: 142-143. Sept. 15, 1948. 80 T817
- 1471 LLOYD, E. B. Dahlias; kinds, care, and culture. *Plants & Gard. (n. s.)* 4: 152-155. Autumn 1948. 450 P694
- 1472 LOGEE, E. The calla lily *Begonia*. *Flower Grower* 35: 769, 785. Oct. 1948. 80 M72
- 1473 LORENZ, E. Florida gems in a California setting. *Begonian* 15: 199-200. Sept. 1948. 96.511 B39
- 1474 MCCLANAHAN, S. A. Begonia notes. II. Fall and winter care. *Northwest Gard. & Homes* 16(7): 6, 31. Sept. 1948. 80 N813
- 1475 MCCLINTOCK, D. Alpines in Kent. *Alpine Gard. Soc. Q. B.* 16: 223-227. Sept. 1948. 84 AL6
- 1476 MCCOMBS, L. A critical evaluation of older Irises. *Amer. Iris Soc. B.* 110: 53-60. July 1948. 81 Am39
- 1477 MCCORMICK, M. Fall flower arrangements. *Successful Farming* 46(10): 104-105. Oct. 1948. 6 Su12
- 1478 MCCULLY, A. In the rock garden. *Gard. Chron. Amer.* 52: 269. Oct. 1948. 80 G1632
- 1479 MACDANIELS, L. H. You don't need a green thumb to grow lilies. *Better Homes & Gard.* 27(2): 302-305. Oct. 1948. 80 F9424
- 1480 MACDOUGALL, T. White *Laelia anceps* in Mexico. *Amer. Orchid Soc. B.* 17: 606-607. Oct. 1948. 80 Am329
- 1481 MCFARLAND, J. H. Thoughts on the parade of spring flowering shrubs. *Flower Grower* 35: 764-765, 779. Oct. 1948. 80 M72
- 1482 MCKEEVER, I. Multiflora rose—a living fence. *Pa. Farmer* 139: 121, 161. Sept. 11, 1948. 6 P383
- 1483 MCKEY, G. A training program is needed. *Greenkeepers' Rptr.* 16(4): 12-13. July/Aug. 1948. 60.18 G83
- 1484 MCKINNEY, F. Green things help make a house a home. *Kans. Farmer* 85(19): 20. Oct. 2, 1948. 6 K13
- Landscape gardening.
- 1485 MACPHEE, C. R. San Francisco, nation's flower basket. *California* 38(9): 18-19. Sept. 1948. 280.8 C12
- 1486 MANLEY, T. R. Preparing and holding spikes for exhibition. *North Amer. Gladiolus Council. B.* 15: 37, 40. Sept. 1948. 96.43 N81
- 1487 MARSHALL, R. P. How to winterize your grounds: shade trees. *House Beautiful* 90(11): 319-320. Nov. 1948. 296.8 H81
- 1488 MASON, C. M. Planning for winter colour. *My Gard.* 37: 184-186. Aug. 1948. 80 M995
- 1489 MATTHEWS, B. Dwarf early flowering shrubs choice subjects for the milder districts. *New Zeal. Gard.* 4: 813, 815, 817. Aug. 2, 1948. 80 N4822
- 1490 MEHLQUIST, G. L. Some observations on orchid growing in England. *Orchid Digest* 12: 152-156. July/Aug. 1948. 80 Or172
- 1491 MOFFITT, MRS. J. K. In praise of trees. *Gard. Club Amer. B. (ser. 11)* 10: 13-15. Sept. 1948. 90.32 G16
- 1492 MONOYER, A. Dahlias. *B. Hort. (n. s.)* 3: 284-286. Oct. 1, 1948. 80 B873
- 1493 MONTREAL. JARDIN BOTANIQUE. L'aménagement paysagiste d'une petite propriété privée. *Montreal Bot. Gard. Feuillet* 15, rev., 8 p. Mar. 5, 1947. 451 M765F



- 1494 MONTREAL BOTANICAL GARDEN. Lawn making and maintenance. Montreal Bot. Gard. Leaflet 24, 5 p. July 9, 1947. 451 M765Fe  
Have also French edition with call number 451 M765F.
- 1495 MONTREAL BOTANICAL GARDEN. Planting and care of hybrid tea roses. Montreal Bot. Gard. Leaflet 25, 5 p. Jan. 5, 1948. 451 M765Fe  
Have also French edition with call number 451 M765F.
- 1496 MONTREAL BOTANICAL GARDEN. Planting and culture of tulips. Montreal Bot. Gard. Leaflet 2, rev., 2 p. May 29, 1947. 451 M765Fe  
Have also French edition with call number 451 M765F.
- 1497 MONTREAL BOTANICAL GARDEN. Window box gardening. Montreal Bot. Gard. Leaflet 17, rev., 7 p. Jan. 3, 1947. 451 M765Fe  
Have also French edition with call number 451 M765F.
- 1498 MOONEY, G. K. More everyday rock plants. Alpine Gard. Soc. Q. B. 16: 228-232. Sept. 1948. 84 AL6
- 1499 MUELLER, C. H. Mid-season daffodils. Plants & Gard. (n. s.) 4: 171-177. Autumn 1948. 450 P694
- 1500 MULLIGAN, B. O. Rose species. II. Arboretum B. 11(3): 9-10, 34-35. Fall 1948. 451 Ar1
- 1501 MUNRO, J. Annuals for autumn sowing. Nurseryman & Seedsman 107: 638-639. Sept. 2, 1948. 80 N933
- 1502 MUNRO, J. Cloches benefit annual flowers. Nurseryman & Seedsman 107: 790-791. Sept. 16, 1948. 80 N933
- 1503 MUNRO, J. Princess of cut flowers. Nurseryman & Seedsman 107: 946-947. Sept. 30, 1948. 80 N933  
Pyrethrum.
- 1504 NELSON, E. Varietal notes on red Irises. Amer. Iris Soc. B. 110: 91-94. July 1948. 81 Am39
- 1505 NIELSEN, B. F. Better gardens. (In Danish.) Haven 48: 127. Aug./Sept. 1948. 80 H29
- 1506 NOBLE, M. The fabulous orchid family. XV. Home Gard. So. 8: 224, 240. Oct. 1948. 80 H755
- 1507 ODELL, J. H. The 1948 parade: the new Gladiolus. Horticulture 26: 381. Oct. 1948. 80 H787
- 1508 PAGE, J. O. From small beginnings: how the Lincolnshire bulb industry rose to its present importance. Nurseryman & Seedsman 105(29): 26-28. July 17, 1947. 80 N933
- 1509 PARK, B. Autumn flowering roses. Amateur Gard. 65(3353): 9. Aug. 17, 1948. 80 Am13
- 1510 PATIENCE, W. F. New Jersey fields visited. North Amer. Gladiolus Council. B. 15: 43, 45. Sept. 1948. 96.43 N81
- 1511 PERRIN, R. M. Gladiolus growing in Oregon. Oreg. Dept. Agr. B. 159: 11. Sept. 1948. 2 Or3
- 1512 PERRY, F. Keep the borders gay in autumn. Amateur Gard. 65(3357): 12-13. Sept. 14, 1948. 80 Am13
- 1513 PESCOFF, E. E. Get busy planting. Westralian Farmers' Co-op. Gaz. 14(359): 37-38. July 1948. 280.28 W522  
Tree planting.
- 1514 PESCOFF, E. E. Some Australian trees. Westralian Farmers' Co-op. Gaz. 12: 235-237. Oct. 1947. 280.28 W522
- 1515 PETERS, R. M. Let's put the emphasis on variety in house plants. Flower Grower 35: 751-753, 788. Oct. 1948. 80 M72
- 1516 PETERSEN, E. C. Lawns, hedges and garden planning for the home gardener. Home Gard. Books 18, 32 p. 1947. 88 H75
- 1517 PETERSEN, E. O. Pot plants: their care and culture. Home Gard. Books 21, 30 p. 1948. 88 H75
- 1518 PEYTON, G. W. The best peonies at the 1948 shows. Flower Grower 35: 763, 776-777. Oct. 1948. 80 M72
- 1519 PFLUEGER, O. W. Shade trees for the home. Pa. Farmer 139: 171, 191. Sept. 25, 1948. 6 P383
- 1520 PHILLIPS, C. E. Lawns. Del. U. Agr. Ext. Mimeog. C. 50, 3 p. Apr. 1948. 275.29 D37M
- 1521 PHILLIPS, G. A. Beautiful modern Paeonies. Gard. Work Amateurs 68: 576-577. Sept. 18, 1948. 80 G1627
- 1522 POTTER, C. H. Florist trends in Oregon. Oreg. Dept. Agr. B. 159: 11-12. Sept. 1948. 2 Or3
- 1523 PRING, G. H. Columneas as greenhouse plants. Mo. Bot. Gard. B. 36: 122-123. Sept. 1948. 451 M69B
- 1524 PUDDLE, F. C. Two misunderstood plants. My Gard. 37: 121-122. Aug. 1948. 80 M995  
*Tropaeolum speciosum* and *Gentiana acaulis*.
- 1525 PULLAR, E. A. New roses for 1949. Conn. Circle 11(9): 10, 29. Sept. 1948. 280.8 C7632
- 1526 REINSMITH, W. H. More about mowing lawn [Zoysia matrella]. Plants & Gard. (n. s.) 4: 159. Autumn 1948. 450 P694
- 1527 RENOLD, C. G. Lilies in a northern garden. IV. North. Gard. 2: 476-478. Aug. 1948. 80 N816
- 1528 RICHARDS, W. R. Seedlings in a warden case. Amer. Orchid Soc. B. 17: 585-588. Oct. 1948. 80 Am329
- 1529 RICHARDSON, A. P. Planning for private practice. Landscape Architecture 39: 33-34. Oct. 1948. 80 L23
- 1530 ROBERSON, F. K. A rolling stone. Northwest Gard. & Homes 16(7): 11, 37. Sept. 1948. 80 N813  
Rock gardens.
- 1531 ROBINSON, G. W. Penstemon newberryi. Alpine Gard. Soc. Q. B. 16: 237. Sept. 1948. 84 AL6
- 1532 ROCHE, M. A. The wise gardener, thrifty of beauty, reaps a second harvest; seed-pods, berries, and dried flowers in the time of bare branches, pale shadows on the snow, and early firelight. Amer. Home 40(6): 94-95. Nov. 1948. 80 Am313
- 1533 ROEKENS, F. On Fuchsia. (In Flemish.) Cult. en Handel 14: 572-573. Sept. 1948. 80 C892
- 1534 ROMANNE-JAMES, C. Hedgecraft in the British Isles. N. Y. Bot. Gard. J. 49: 239-241. Oct. 1948. 451 N48J
- 1535 ROS DE RAMIS, J. DE. El aleli. Cult. Mod. 31: 285. Aug. 1948. 15 C89
- 1536 ROS DE RAMIS, J. El Crisantemo. Cult. Mod. 31: 220-221. June 1948. 15 C89
- 1537 ROS DE RAMIS, J. DE. Plantas de bulbo. Cult. Mod. 31: 246-248. July 1948. 15 C89
- 1538 ROSACKER, D. Care and forcing of gloxinias. Minn. Hort. 76: 119. Oct. 1948. 81 M66
- 1539 ROWLEY, M. T. Alliums: easy to grow for summer bloom, but destitute of common names. Plants & Gard. (n. s.) 4: 183-184. Autumn 1948. 450 P694
- 1540 RYAN, R. W. Current Gladiolus research. North Amer. Gladiolus Council. B. 15: 23, 25-27. Sept. 1948. 96.43 N81
- 1541 SANDAY, W. J. W. Harmony in the rose garden. Gard. Chron. 124: 76-77. Sept. 4, 1948. 80 G162
- 1542 SANDAY, W. J. W. Hybrid polyantha roses. Gard. Chron. 124: 126-127. Oct. 16, 1948. 80 G162
- 1543 SAWADA, K. At last! Flowering cherries for the Lower South. Home Gard. So. 8: 232-233. Oct. 1948. 80 H755
- 1544 SCANLON, E. H. Rare tree butchered for wires. Trees [Cleveland] 8(6): 11. Sept./Oct. 1948. 99.8 W52  
Unusual upright red maple.
- 1545 SCHERY, R. W. Ribbon-candy vines. Mo. Bot. Gard. B. 36: 119-120. Sept. 1948. 451 M69B  
Chiefly *Bauhinia*.
- 1546 SEATON, H. E. Naturalising bulbs. Guild Gard. 23(9): 3-4. Sept. 1948. 80 G94
- 1547 SENIOR, R. M. Annual Campanulas of Syria and Palestine. Alpine Gard. Soc. Q. B. 16: 208-209. Sept. 1948. 84 AL6
- 1548 SEYMOUR, E. L. D. How different are the dogwoods. Amer. Home 40(5): 42-43. Oct. 1948. 80 Am313
- 1549 SHEWELL-COOPER, W. E. Background for colour; flowers and shrubs which act as foils for others. Field 192: 191. Aug. 14, 1948. 10 F45
- 1550 SHEWELL-COOPER, W. E. Beauty of shrubs. Field 192: 331. Sept. 18, 1948. 10 F45
- 1551 SHEWELL-COOPER, W. E. Roses five times a year; winter blooms grown under glass yield good returns. Field 192: 359. Sept. 25, 1948. 10 F45
- 1552 SHEWELL-COOPER, W. E. Sweet peas under cloches. Amateur Gard. 65(3357): 10. Sept. 14, 1948. 80 Am13
- 1553 SHIPPY, B. L. Hints on fall planting of bulbs. Plants & Gard. (n. s.) 4: 162-165. Autumn 1948. 450 P694
- 1554 SHURLY, E. Cacti in the greenhouse. Amateur Gard. 65(3354): 10. Aug. 24, 1948. 80 Am13
- 1555 SHURLY, E. How to keep Cacti healthy. Pop. Gard. 50: 260. Sept. 11, 1948. 80 G1622
- 1556 SMITH, A. H. Green is a color. House Beautiful 90(11): 278-279, 356-357. Nov. 1948. 296.8 H81  
House plants.



- 1557 SMITH, A. W. A. Carnation growing in England. Ohio Florists' Assoc. Monthly B. 229: 5-7. Oct. 1948. 81 Oh36
- 1558 SMITH, S. Gladiolus in England. North Amer. Gladiolus Council. B. 15: 19, 21, 23. Sept. 1948. 96.43 N81
- 1559 SOME flowering shrubs and climbers. Food & Flowers 1(2): 50-63. June 1948. 80 F73
- 1560 STAPLES, M. W. How to winterize your grounds: shrubs and evergreens. House Beautiful 90(11): 318, 320-321. Nov. 1948. 296.8 H81
- 1561 STEFFEK, S. F. Trilliums. Plants & Gard. (n. s.) 4: 180-182. Autumn 1948. 450 P694
- 1562 STIRLING, W. Triploid Cypripediums. Orchid Rev. 56: 133-136. Sept. 1948. 80 Or15
- 1563 STOUT, A. B. A new race of double-flowered daylilies. N. Y. Bot. Gard. J. 49: 236-238. Oct. 1948. 451 N48J
- 1564 STOUTEMANS, E. Forcing Chrysanthemums to bloom. (In Flemish.) Tuinbouwberichten 12: 141. Sept. 15, 1948. 80 T817
- 1565 STRAPS, G. Dans l'art floral. B. Hort. (n. s.) 3: 310. Oct. 1, 1948. 80 B873
- Dahlia.
- 1566 TAYLOR, G. M. Christmas roses [Hel-leborus]. Gard. Illus. 65: 187. Oct. 1948. 80 G169
- 1567 THODE, F. W. Landscaping, neglected in South, accorded bright future there. South. Florist & Nurseryman 61(26): 9-10, 92-93. Sept. 24, 1948. 80 So86
- 1568 THOLLE, J. Cemetery planning in Denmark. Landscape Architecture 39: 3-6. Oct. 1948. 80 L23
- 1569 THOMAS, D. G. Autumn sowing of sweet peas. Amateur Gard. 65(3360): 12. Oct. 5, 1948. 80 Am13
- 1570 THOMAS, D. G. Sweet pea results in 1948. Amateur Gard. 65(3356): 11. Sept. 7, 1948. 80 Am13
- 1571 THORSRUD, A. Common Scandinavian objectives in flower culture. (In Norwegian.) Nord. Jordbrugsforsk. 1948: 371-374. 11 N752
- Discussion, p. 374-375.
- 1572 VACIN, E. F. When should orchid blooms be cut? Orchid Digest 12: 170-171. July/aug. 1948. 80 Or172
- 1573 VLIET, R. W. The basic facts on growing Amaryllis in pots. Flower Grower 35: 756-757, 784-785. Oct. 1948. 80 M72
- 1574 WALKDEN, A. Coelogyne lawrenceana. Orchid Rev. 56: 152-154. Oct. 1948. 80 Or15
- 1575 WALKER, C. F. Cautionary tales. Alpine Gard. Soc. Q. B. 16: 202-207. Sept. 1948. 84 AL6
- Rock gardens.
- 1576 WALMSLEY, M. H. Orchids, my hobby. Organic Gard. 13(4): 32-37. Oct. 1948. 56.8 Or3
- 1577 WARD, F. K. The Manipur Nomocharis. Gard. Chron. 124: 84, 92. Sept. 11, 18, 1948. 80 G162
- 1578 WARREN, W. H. Trees for town gardens—Victoria [British Columbia]. Arboretum B. 11(3): 25-26. Fall 1948. 451 Ar1
- 1579 WELLS, J. Propagating hybrid Rhododendrons. Nurseryman & Seedsman 105(33): 28-30; (34): 28-30; (35): 28-30. Aug. 14-28, 1947. 80 N933
- 1580 WELLS, J. B. New border carnations. Amateur Gard. 65(3353): 8. Aug. 17, 1948. 80 Am13
- 1581 WIBIRAL, E. Der weihnachtskaktus [Epiphyllum truncatum]. Gart.-Z. illus. Flora 70: 169-170. Dec. 1947. 80 G1991
- 1582 WIJK, A. VAN. Carnations for borders. (In Dutch.) Tuinbouw 3: 213. Aug. 1948. 80 T815
- 1583 WILDE, E. I. Test flower garden at Pennsylvania State College. New England Gladiolus Soc. Gladiolus Mag. 12(4): 27-28. Sept. 1948. 96.43 N44
- 1584 WILLIAMS, E. O. Survival by neglect. Begonian 15: 198. Sept. 1948. 96.511 B39
- 1585 WILMOT, R. J. Camellias. Gard. Gateways 18(2): 1-2. Oct. 1948. 90.32 G166
- 1586 WILSON, F. C. Lilies are not difficult. Gard. Chron. Amer. 52: 272, 277. Oct. 1948. 80 G1632
- 1587 WILSON, H. V. African violets. Woman's Day 12(2): 38-39, 106, 108. Nov. 1948. 321.8 W842
- 1588 WISTER, J. C. Bulbs for home gardens. New York, Oxford U. Press, 1948. 270 p. 97 W76B
- Revised and enlarged edition of Bulbs for American gardens.
- 1589 WISTER, J. C. Early varieties of daffodils beginning the blooming season in late March. Plants & Gard. (n. s.) 4: 168-171. Autumn 1948. 450 P694
- 1590 WISTER, J. C. Late varieties of daffodils, extending the blooming season to late May. Plants & Gard. (n. s.) 4: 177-179. Autumn 1948. 450 P694
- 1591 WISTER, J. C. Will it bloom the first year? Yes—if it's an annual! Plants & Gard. (n. s.) 4: 160. Autumn 1948. 450 P694
- 1592 WITHNER, C. L. From china to orchids. Amer. Orchid Soc. B. 17: 549. Sept. 1948. 80 Am329
- China cabinet used as orchid greenhouse.
- 1593 WITTOCK, M. Quality of some varieties of Gladioli. (In Flemish.) Cult. en Handel 14: 503-504. Aug. 1948. 80 C892
- 1594 WOOD, E. B. A. Whether you like dogtooth violet, trout lily, adder's tongue or fawnlily, you're sure to like Erythroniums. Flower Grower 35: 762, 778-779. Oct. 1948. 80 M72
- 1595 WOOD, W. G. Greenhouses. Orchid Digest 12: 173-174, 184. July/Aug. 1948. 80 Or172
- 1596 WOODROFFE, F. B. Move your fall border indoors. Better Homes & Gard. 27(2): 56. Oct. 1948. 80 F9424
- 1597 WOODROFFE, F. B. Spring bulbs you can flower indoors. Better Homes and Gard. 27(3): 50, 122. Nov. 1948. 80 F9424
- 1598 WRIGHT, P. H. Choosing among the stenographer lilies. Gard. Chron. Amer. 52: 276. Oct. 1948. 80 G1632
- 1599 WRIGHT, W. E. Hyacinths for indoor decoration. Gard. Work Amateurs 68: 483-484. Aug. 21, 1948. 80 G1627
- 1600 WYMAN, D. Pruning Rhododendrons. Arnoldia 8: 37-44. Sept. 17, 1948. 451 Ar6Ba
- 1601 WYMAN, D. The sturdy and serviceable yews: little care required. Horticulture 26: 379, 397. Oct. 1948. 80 H787
- 1602 YOUNG, M. H. Flower arrangements for the church. South. Agr. 77, i. e., 78(10): 68. Oct. 1948. 6 So83
- 1603 ZACH, L. The education of the landscape architect. Landscape Architecture 39: 27-32. Oct. 1948. 80 L23

#### Vegetable and Truck Crops (Including Potatoes)

- 1604 AGERBERG, L. S. Potatoes in Norrland. I. Research on yield and culture of different potato varieties in the four northernmost counties during the years 1937-1947. (In Swedish.) Sveriges Utsädesför. Tidskr. 58: 67-90. 1948. 61.9 Sv23
- 1605 AKKER VAN DEN. Seed- or seedling salad for the summer. (In Dutch.) Cult. en Handel 13(6): 19. June 1947. 80 C892
- 1606 ALLEGAERT, E. Spinach from October to April. (In Flemish.) Cult. en Handel 14: 579-582. Sept. 1948. 80 C892
- 1607 ANASHIN, A. G. Dva urozhaia kartofel'ia v god [Two potato harvests in one year]. Moskva, Moskovskii Rabochii, 1948. 27 p. 75 An12
- 1608 BARNES, W. C. Logan: southwide bean. South. Seedsman 11(11): 20, 40. Nov. 1948. 61.8 So8
- 1609 BERKNER. Kartoffelspätbau und schweinemast. Neue Mitt. f. die Landw. 3: 159-160. June 5, 1948. 18 N39
- 1610 BIRAGHI, A. Seed potatoes in Spain. (In Italian.) Riv. della Ortoflorofruttic. Ital. 32: 90-94. May/June 1948. 86 R22
- 1611 BLANCO CASAS, A. Cultivos comerciales: rendimientos del boniato. Rev. Nac. de Cien. Polít.-Econ.-Sociales 7(80): 13-14. July 1948. 280.8 R3295
- 1612 BLIN, H. Comment on doit repiquer les oignons blancs. Acclimatation 75: 173. Aug. 14, 1948. 14 Ac2
- 1613 BLIN, H. Culture économique de la morille. Acclimatation 75: 199. Sept. 18, 1948. 14 Ac2
- 1614 BOHM, F. Wie kommt man zu höheren kartoffelernten? Neue Mitt. f. die Landw. 3: 100-102. Apr. 5, 1948. 18 N39
- 1615 BOOCK, O. J. Cut seed potatoes. (In Portuguese.) Bragantia 7: 195-206. Ref. July/Aug. 1947. 102.5 B73Tb
- English summary.
- 1616 BOOCK, O. J. Production of potatoes in Holland. (In Portuguese.) Colheitas e Mercados 4(3/6): 38-40. Mar./June 1948. 255.3 Sa652
- 1617 BOUQUET, A. G. B. Causes of premature heading of cauliflower. West. Canner & Packer 40(11): 63. Oct. 1948. 286.83 W522



- 1618 BOUQUET, A. G. B. Sweet potatoes. *Oreg. State Col. Ext. C. 522*, 4 p. Sept. 1948. 275.29 Or32C
- 1619 BRUNNEMANN, F. C. Planting lettuce in the Valley. *Tex. Farming & Citric. 25*(3): 7. Sept. 1948. 80 T31
- 1620 BUSHNELL, J. Fertilizer and cultural experiments with potatoes reported during 1944-1946. *Amer. Potato J. 25*: 329-333. Ref. Sept. 1948. 75.8 P842
- 1621 CALIL, J. Varieties and methods of cultivating peas. (In Portuguese.) *Soc. Rur. Bras. Rev. 28*(334): 32-33. July 1948. 9.2B733
- 1622 CAMARGO, A. P. DE. Cutting tubercles of winged yam (*Discorea alata* L.). (In Portuguese.) *Bragantia 7*: 55-68. Mar. 1947. 102.5 B73Tb English summary.
- 1623 CASSERES, E. H. Las papas—importancia del abono y variedades resistentes en su producción. *Hacienda 43*(10): 49. Oct. 1948. 6 H11
- 1624 CASTRO, J. B. DE, and BOOCK, O. J. Kon-surages variety of potato. (In Portuguese.) *Bragantia 7*: 151-177. Ref. June 1947. 102.5 B73Tb
- 1625 CHAN, S. Y. Vegetable trials at Sheung Shui. *Food & Flowers 1*(2): 21-29. June 1948. 80 F73
- 1626 CORBETT, W. Maintaining tomato yield. *Nurseryman & Seedsman 105*(30): 22-23. July 24, 1947. 80 N933
- 1627 CORDEAU, P. La culture grainière. *Potasse 22*: 151-152. Sept. 1948. 57.8 P84 Chiefly vegetables.
- 1628 DAKERS, J. S. Earthing up celery. *Amateur Gard. 65*(3354): 13. Aug. 24, 1948. 80 Am13
- 1629 DIONNE, R. Champignons comestibles ou suspects: les lactaires. *Rustica 21*: 658. Sept. 12, 1948. 14 R92
- 1630 EDEL'SHTEIN, V. I. Individual'nyi'ogorod [Individual gardens]. Ed. 5. Moskva, Sel'khozgiz, 1948. 110 p. 91.15 Ed2 Vegetables.
- 1631 ESCH, J. A. H. Die erzeugung und die ausfuhr niederländischer pflanzkartoffeln. *Neue Mitt. f. die Landw. 3*: 166-167. June 5, 1948. 18 N39
- 1632 GJELSVIK, O. Contract culture of seed potatoes. (In Norwegian.) *Norsk Landbr. 14*: 330-332. Sept. 3, 1948. 11 N8122
- 1633 GOMES, P. Cultivation of potatoes. (In Portuguese.) *Agronomia [Rio de Janeiro] 7*(1): 28-29. Jan./Mar. 1948. 9.2 Ag892
- 1634 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Winter (broccoli) and summer cauliflowers. *Gt. Brit. Min. Agr. and Fisheries. B. 131*, 18 p. 1948. 10 G794B
- 1635 GROENEWEGER, J. H. Culture of very early lettuce in hot-beds. (In Dutch.) *Groenten en Fruit 4*: 159. Sept. 16, 1948. 80 G89
- 1636 GUYATT, R. H. Harvesting root crops. *Amateur Gard. 65*(3357): 17. Sept. 14, 1948. 80 Am13
- 1637 HANSEN, L. Vegetables and strains. (In Danish.) *Nord. Jordbrugsforsk. 1948*: 347-355. 11 N752 Discussion, p. 355-357.
- 1638 HOEKZEMA, J. P. Father and son raise outdoor tomatoes for early market. *Ind. Farmers Guide 104*(18): 1-2. Sept. 15, 1948. 6 In2
- 1639 HUTTON, E. M. Potato improvement in Australia. *Austral. Inst. Agr. Sci. J. 14*: 71-76. Ref. June 1948. 23 Au74
- 1640 HYSLOP, J. Grow some outdoor mushrooms. *Pop. Gard. 50*: 237. Aug. 28, 1948. 80 G1622
- 1641 INGALLS, E. S. Potato harvesting in Aroostook. *New England Homestead 121*(19): 8, 16. Oct. 9, 1948. 6 N442
- 1642 JACKSON, J. It takes "savvy" to grow spuds. *Southwest. Crop & Stock 2*(10): 29, 51. Oct. 1948. 6 So8942
- 1643 JACOB, C. Un bon fruit d'été: la tomate. *Monit. Agr. 1*(25): 6. July 4, 1948. 14 M744
- 1644 JENNRICH, W. Mehr kartoffeln durch sorgfältigste auslese. *Neue Mitt. f. die Landw. 3*: 183-184. June 21, 1948. 18 N39
- 1645 JERNA, G. Some notes on the history of the tomato in Italy. (In Italian.) *Humus 3*(9): 26-27. Sept. 1947. 16 H88
- 1646 KÜPPERS, G. A. Topinambur im intensivanbau auf kahlschlägen. *Neue Mitt. f. die Landw. 3*: 106. Apr. 5, 1948. 18 N39
- 1647 LANE, J. A. Don't take off too many tomato leaves. *Smallholder 79*(2007): 15. Sept. 1948. 10 Sm1
- 1648 LEE, S. Y., and CHAN, S. Y. Watercress, sai yeung ts'oi. *Food & Flowers 1*(2): 15-20. June 1948. 80 F73
- 1649 LIESE, J. Der shiitakepilz. *Natur u. Nahr. 2*(11/12): 7-8. June 1948. 80 N218
- 1650 LIESE, J. Stubbenimpfung. *Natur u. Nahr. Ausg. B 2*: 53-55. June 1948. 80 N218B
- 1651 LINDEN, L. VAN DER. Use of growth substances in late tomato culture in hotbeds. (In Flemish.) *Tuinbouwberichten 12*: 136-137. Sept. 15, 1948. 80 T817
- 1652 LORKH, A. Kartoffel' [Potatoes]. Ed. 3. Moskva, Moskovskii' Rabochii', 1948. 75 p. (V Pomoshch' Predsedatel'u Kolkhoza) 75 L89
- 1653 LUTHARDT, W. Pilzzucht vermehrt natürliches wachstum. *Natur u. Nahr. 2*(11/12): 7. June 1948. 80 N218
- 1654 MARUSHCHAK, M., and TROITSKII, I. Squash in the forage crop rotations. (In Russian.) *Kolkhoz. Proizvod. 8*(5): 32-33. May 1948. 281.8 K83
- 1655 MONTREAL BOTANICAL GARDEN. A new fruit vegetable [*Physalis angulata*]. *Montreal Bot. Gard. Leaflet 23*, 2 p. 1947. 451 M765Fe Have also French edition with call number 451 M765F
- 1656 MORALES ANTEQUERA, C. Más sobre el cultivo de la patata en la Mancha. *Siembra 1948*(7): 6-8. July 1948. 15 S11
- 1657 OSUNA, P. Como cultivar algunas hortalizas. *Rev. del Café 4*(3): 11. Aug. 1948. 9 R3295
- 1658 OSUNA, P. Hortalizas para la exportación; agricultores deben empezar a preparar el terreno temprano. *Rev. del Café 4*(3): 5-8. Aug. 1948. 9 R3295
- 1659 OSUNA, P. Siembra y cultivo de la batata mameya. *Rev. del Café 4*(3): 9. Aug. 1948. 8 R3295
- 1660 OSVALD, H. Swedish potato yield can be considerably increased. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17*(12): 1, 12. Mar. 22, 1947. 11 J762
- 1661 PASZEWSKI, A., and KASZEWSKA, W. The results of field experiments in binding and incising tomato-plants. (In Polish.) *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E 2*: 29-55. Dec. 4, 1947. 512 L96Ae English summary.
- 1662 PEREZ DEL TORO, A. Principales variedades de las plantas de hortaliza. *Agr. y Ganad. 24*(8): 12-17. Aug. 31, 1948. 8 Ag834
- 1663 PETERSON, G. Away with the old routine in potato culture. (In Swedish.) *Kalmar Läns Norra Hushållningssällsk. Kvtitsskr. 8*(1): 1-5. 1948. 11 K12
- 1664 PETTIGROVE, H. R. Uneven maturity creates bean harvesting problems. *Mich. Bean B. 2*(3): 9, 16. Sept. 1948. 80 M587
- 1665 POLLARD, A. A. Glasshouse tomato growing England. *Farmer & Dairyman 40*(499): 31, 32. Aug. 1948. 23 F225
- 1666 PONT, A. Culture potagère par l'image. *Paris, Maison Rustique, 1948*. 145 p. 91.15 P77
- 1667 POPE, D. T. Unpredictable sweet [potato] puzzles breeders. *Res. and Farming. [N. C. Sta.] Prog. Rpt. 7*(1): 11, 13. July 1948. 100 N81R
- 1668 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Obtenga mejor precio por sus tomates. *Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 26*, 3 p. Jan. 1948. 275.29 P962
- 1669 QUARRELL, C. P. Melons and tomatoes under cloches. *Pop. Gard. 50*: 257. Sept. 11, 1948. 80 G1622
- 1670 QUARRELL, C. P. You can have fresh lettuces in late autumn by growing them under cloches. *Pop. Gard. 50*: 238, viii. Aug. 28, 1948. 80 G1622
- 1671 ROARK, C. Lazy gardener's dream; kudzu "plows, weeds and conditions" the soil in Alabama's garden of "brag-size" vegetables. *South. Seedsman 11*(11): 13, 52, 59. Nov. 1948. 61.8 So8
- 1672 ROBB, O. J. The harvesting and storing of vegetables. *Your Gard. & Home 2*(10): 26. Oct. 1948. 80 Y8
- 1673 RURAL BANK OF NEW SOUTH WALES. The home vegetable garden. *Sydney, 1948*. 174 p. 91.15 R88
- 1674 SCHUPHAN, W. Gemüsebau auf ernährungswissenschaftlicher grundlage. *Hamburg, Keune, 1948*. 368 p. 91 Sch8
- 1675 SCHÜTZE, P. Vom brachland zum kleingarten. *Berlin, Boehmer, 1947*. 96 p. 91.15 Sch8
- 1676 SHEWELL-COOPER, W. E. Lettuces in frames. *Amateur Gard. 65*(3360): 19, 27. Oct. 5, 1948. 80 Am13



- 1677 SHEWELL-COOPER, W. E. The market garden. IX-X. Estate Mag. 48: 311-313, 348-350. Sept-Oct. 1948. 10 Es8
- 1678 SHEWELL-COOPER, W. E. Raising good cauliflowers. Amateur Gard. 65(3353): 13. Aug. 17, 1948. 80 Am13
- 1679 SHEWELL-COOPER, W. E. September [vegetable] sowings; utilise the ground vacated by harvested crops. Field 192: 247. Aug. 28, 1948. 10 F45
- 1680 SHEWELL-COOPER, W. E. Varieties of beans. Field 192: 219. Aug. 21, 1948. 10 F45
- 1681 SIDWELL, R. W. Winter lettuce. Amateur Gard. 65(3357): 17. Sept. 14, 1948. 80 Am13
- 1682 SIMON, A. L. Vegetables for the gourmet. Gard. Illus. 65: 194. Oct. 1948. 80 G169
- 1683 SIMPICH, F. 4-H boys and girls grow more food. Natl. Geog. Mag. 94: 551-582. Nov. 1948. 470 N213
- 1684 SKIRM, G. W. Green-wrap tomato: new Lakeland tomato was bred especially to meet the South's need for a better green-wrap variety. South. Seedsman 11(11): 14. Nov. 1948. 61.8 So8
- 1685 SØRENSEN, H. The Jutland Onion Section. (In Danish.) Haven 48: 124-125. Aug./Sept. 1948. 80 H29
- 1686 STAALDUINE, D. VAN. What cauliflower varieties to sow. (In Dutch.) Groenten en Fruit 4: 177. Sept. 23, 1948. 80 G89
- 1687 STEVENS, R. F. Ten points for increasing tomato yields. Del. U. Agr. Ext. Mimeog. C. 51, 8 p. Apr. 1948. 275.29 D37
- 1688 SWYNNERTON, R. J. M. Further note on onion experiments on Kilimanjaro. East African Agr. J. 14: 23-25. July 1948. 24 Ea74
- 1689 TEIXEIRA, E. F. Conclusions of experiments with potatoes. (In Portuguese.) Soc. Rur. Bras. Rev. 28(334): 28-30. July 1948. 9.2 B733
- 1690 TODARO, F. Extension of potato culture. (In Italian.) Humus 3(9): 5-6. Sept. 1947. 16 H88
- 1691 VANDERWAEREN, R. The most important diseases of beans and their control. (In Flemish.) Tuinbouwberichten 12: 104-106. July 15, 1948. 80 T817
- 1692 VAN WEZER, A. Les légumes sous verre et l'emploi des engrais. Courrier Hort. 10: 483-484. Aug. 1948. 80 C834
- 1693 VERSCHULDEN, K. Early garden pea tests. (In Flemish.) Tuinbouwberichten 12: 134-135. Sept. 15, 1948. 80 T817
- 1694 WALBAUM, P. La destruction des fanes de pommes de terre. Rev. Agr. de l'Afrique du Nord 46: 448-449. Sept. 3, 1948. 80 R326
- 1695 WENTZ, Herbst- und winterspinat. Obst- u. Gartenbau 3: 47. Aug. 1, 1948. 80 Ob72
- 1696 WINDHAM, S. L. Green Bayou variety leads in English pea production tests. Miss. Farm Res. [Miss. Sta.] 11(10): 5. Oct. 1948. 100 M69M1
- 1697 WYNN, J. Growing brussels sprouts for exhibition. Pop. Gard. 50: 238. Aug. 28, 1948. 80 G1622
- 1698 WYNN, J. Growing vegetables for exhibition. Pop. Gard. 50: 258, viii. Sept. 11, 1948. 80 G1622
- 1699 ZIEGELMAYER, W. Mehr pilze—mehr eiweiss aus dem wald. Natur u. Nahr. 2(11/12): 3-4. June 1948. 80 N218
- 1700 CAPINPIN, R. I., and OCFEMIA, G. O. A study of weed eradication with 2, 4-D in lawns, vacant lots, and pastures. Philippine Agr. 31: 239-255. Ref. Apr./June 1948. 25 P542
- 1707 CRAFTS, A. S. Can we lay down the hoe on crops? Two kinds of chemical weed control promise less drudgery. West. Grower & Shipper 19(11): 16, 43-45. Oct. 1948. 280.38 W52
- 1708 CRAFTS, A. S. Weed control—effectiveness of soil treatment compared with contact sprays in rank growing crops. Calif. Agr. [Calif. Sta.] 2(9): 8-9. Sept. 1948. 100 C12Cag
- 1709 DANIELSON, C. B., and CROWE, G. B. Flame cultivation studied as means of weed control. Miss. Farm Res. [Miss. Sta.] 11(10): 1, 6-7. Oct. 1948. 100 M69M1
- 1710 DEFRANCE, J. A. A method of destroying weed seeds in compost. Greenkeepers' Rptr. 16(4): 44-45. July/Aug. 1948. 60.18 G83
- 1711 DOMATO, J., and ARAMAYO, H. Las hormonas y sus posibles aplicaciones en la agricultura: el 2-4D ensayado como herbicida en el control de la "totorilla" (Cyperus rotundus L.). Tucumán. Estac. Expt. Agr. B. 62, 20 p. Dec. 1947. 102.5 T79B
- 1712 DRAKE, J. M., JR. How to get rid of Bermuda grass. Farmer-Stockman 61(10): 47. Oct. 1948. 6 Ok4
- 1713 FUELLEMAN, R. F., MCKIBBEN, G. E., and SLIFE, F. The use of 2,4-D for killing weeds. Ill. Agr. Col. Ext. AG1351, 9 p. Jan. 1948. 275.29 IL62Pag
- 1714 GARDNER, C. A., and ROYCE, R. D. Caltrop. West. Austral. Dept. Agr. J. (ser. 2) 25: 120-124. June 1948. 23 W52J
- 1715 GARDNER, C. A., and ROYCE, R. D. Ragwort (Senecio jacobaea L.). West. Austral. Dept. Agr. J. (ser. 2) 25: 124-128. June 1948. 23 W52J
- 1716 GEORGE, C. Controlling Johnson grass with sheep. Sugar Bul. 26: 424, 426-428, 431. Oct. 1, 1948. 65.9 Am32
- 1717 GERTLER, A. M. The hoehand with wings. Southwest. Crop & Stock 2(10): 13. Oct. 1948. 6 So8942
- 1718 HAZEN, M. S. Death to weeds. Farm Q. 3 (3): 59-61, 114, 116-118. Autumn 1948. 6 F22995
- 1719 HILLI, A. Spreading and control of winter-cress. (In Finnish.) Suomen Maataloustiet. Seura, Maataloustiet. Aikakausk. 20: 48-57. 1948. 20 Su7M
- 1720 HOFSTEN, C. G. VON. Ergot of current interest this year. (In Swedish.) Lantmannen 32: 626, 630. Sept. 18, 1948. 11 L234
- 1721 HOLMGREN, A. H. Native plant [biscuit root] becomes weed menace. Farm & Home Sci. [Utah Sta.] 9(3): 20. Sept. 1948. 100 Ut1F
- 1722 KELTNER, C. H. Laboratory aids farmers; modern facilities provided for accurate analysis of all farm seeds—weed control is a state-wide problem. Ill. Dept. Agr. Ann. Rpt. 30: 197-216. 1947. 2 IL6R
- 1723 KOEHLER, J. W. Taking a poke at poison oak. Reclam. Era 34: 170-171. Sept. 1948. 156.84 R24
- 1724 KOTT, S. Quackgrass and its control. (In Russian.) Kolkhoz. Proizvod. 8(5): 24-26. May 1948. 281.8 K83
- 1725 LASSETTER, W. C. 2,4-D, the weed killer. Prog. Farmer, Miss.-Ark.-La. Ed. 63(10): 18, 80. Oct. 1948. 6 So81
- 1726 NICHOLSON, R. M. Dangerous weed [St. John's Wort] checked; discovery of its susceptibility to hormone killer allays fears. Farmer's Weekly [Bloemfontein] 75: 109, 111. Aug. 18, 1948. 24 F225
- 1727 ORCHARD, H. E. Weeds of South Australia; innocent weed (Cenchrus tribuloides, L.). So. Austral. Dept. Agr. J. 51: 581-582. July 1948. 23 So84
- 1728 PETERSEN, H. I. Beware of the quackgrass. (In Danish.) Dansk Landbr. 67: 310. Aug. 19, 1948. 280.28 V91
- 1729 POISONOUS plants of Hong Kong. Food & Flowers 1(2): 30-37. June 1948. 80 F73
- 1730 PRIES, H. Weed control with hormone preparations. (In Danish.) Tolvmandsbladet 20: 67-68. Mar. 1948. 11 T58
- 1731 REMY, H. La pyroculture. Terre d'Oc 30: 292-295. July 1948. 14 Ar5

## WEEDS AND POISONOUS PLANTS

- 1700 AMIZET, L. Au sujet du 2,4 D comme herbicide. Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc. 18: 229-230. July/Aug. 1948. 80 P9482
- 1701 ANDERSEN, T. Killing thistles. (In Danish.) Dansk Landbr. 67: 332-333. Sept. 2, 1948. 280.28 V91
- 1702 ÅSLANDER, A. A harmless chlorate method. (In Swedish.) Lantmannen 32: 560. Aug. 21, 1948. 11 L234
- Weed control.
- 1703 BARSHAD, I. Molybdenum content of pasture plants in relation to toxicity to cattle. Soil Sci. 66: 187-195. Ref. Sept. 1948. 56.8 So3
- 1704 BIGGAR, C. M. Weed control in South Dakota. Natl. Co. Agent 4(9): 16, 32. Sept. 1948. 275.28 N213
- 1705 BÖHME. Zur bekämpfung der quecken. Land. frau 3(15/16): 19. Aug. 1948. 18 L2337



- 1732 RICARD, P. La lutte contre les herbes dans les rizières. Bouches du Rhone Agr. 21(984): 4. Aug. 15, 1948. 14 B662
- 1733 ROBINSON, W. O., and EDGINGTON, G. Toxic aspect of molybdenum in vegetation. Soil Sci. 66: 197-198. Sept. 1948. 56.8 So3
- 1734 ROGER, J. G. British poisonous plants. VIII. North. Gard. 2: 487-489. Aug. 1948. 80 N816
- 1735 ROSELLA, E. Colorants nitrés ou phyto-hormones herbicides? Terre Maroc. 17: 429-431. Dec. 1947. 24 T14
- 1736 SAVAGE, D. A. Sagebrush control? It's simple: just spray it from the air with 2, 4-D. Amer. Hereford J. 39(12): 26-27. Oct. 15, 1948. 43.8 Am32
- 1737 SMITH, C. S. Poison in the ley: science discovers new facts about bloat. Farmers Weekly [London] 29(15): 38-40. Oct. 8, 1948. 10 F2226
- Hydrocyanic acid in clover and lucerne.
- 1738 STEINDL, D. R. L., and PEMBROKE, A. E. The cane-killing weeds [Striga]. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 4-9. July 1, 1948. 65.9 Q3C
- 1739 TAYLOR, H. Oregon weed laws--their scope. Oreg. Dept. Agr. B. 159: 14-16. Sept. 1948. 2 Or3
- 1740 TODARO, F. Weeds. (In Italian.) Humus 4 (2): 3-4. Feb. 1948. 16 H88
- 1741 WATERS, H. Promising new chemicals. Greenkeepers' Rptr. 16(4): 30-31. July/Aug. 1948. 60.18 G83
- Herbicides.
- 1742 WATSON, I. Poisonous plants affecting New Mexico range livestock. N. Mex. Stockman 13(9): 84-85. Sept. 1948. 49 N462
- 1743 WATSON, I. Some poisonous range plants and their effects on stock. West. Farm Life 50(17): 70-71. Sept. 1, 1948. 6 R153
- 1744 WEST, P. Destruutores selectivos de las malezas. Res 16: 22809. Sept. 20, 1948. 286.85 R31
- 1745 WILD, H. A suggestion for the control of tobacco witchweed (Striga gesnerioides (Willd.) Vatke) by leguminous trap-crops. South. Rhodesia. Dept. Agr. and Lands. B. 1443, 9 p. 1948. 24 R345
- 1746 WOODWARD, H. R. Rhus toxicodendron--poison ivy. N. and S. Dak. Hort. 21: 138, 142. Oct. 1948. 81 N817
- MISCELLANEOUS ECONOMIC PLANTS  
(Drug, Dye, Rubber, Etc.)
- 1747 ALARCÓN C., P. J. El centro de investigaciones de café. Agr. Trop. 4(9): 41-45. Sept. 15, 1948. 26 Ag8
- Colombia.
- 1748 ALDE, M. R., AGCAOILI, F., and COCHICO, R. J. Jatropha curcas Linn. (tuba) as a source of natural dye. Philippine J. Sci. 77: 55-60. May 1947. 475 P53
- 1749 ARIAS, J. B. Plantas útiles al campesino colombiano. Ganad. de Bolívar 13(77): 52-56. June 1948. 49 G152
- 1750 BADHWAR, R. L., CHOPRA, I. C., and NAYAR, S. L. Reputed abortifacient plants of India. Indian J. Agr. Sci. 16: 342-355. Ref. Aug. 1946, pub. 1947. 22 Ag831
- 1751 BAGGE, H. Culture experiments with opium poppy, 1941-1946. (In Danish.) Denmark. Statens Forsøgsvirks. i Plantekultur, Beret. 410: 587-615. 1948. 11 D412
- 1752 BARRAU, J. La culture du caféier en Nouvelle-Calédonie. Marseille. Inst. Colon. Cahiers Colon., n. s., 1948: 229-232. June/July 1948. 286.8 M35
- 1753 BEILMANN, A. T. Wafer ash (Ptelea trifoliata). Amer. Bee J. 88: 495. Oct. 1948. 424.8 Am3
- 1754 BIELMANN, A. P. Eastern Missouri honey plants. Amer. Bee J. 88: 497. Oct. 1948. 424.8 Am3
- 1755 BONNET, P. Aperçu sur les plantes médicinales de nos colonies. Marseille. Inst. Colon. Cahiers Colon., n. s., 1948(1): 22-29. Ref. Jan. 1948. 286.8 M35
- French colonies.
- 1756 BONNET, P. Le thé; une réussite française: le thé d'Indochine. Marseille. Inst. Colon. Cahiers Colon., n. s., 1947(2): 19-31. Ref. Nov. 1947. 286.8 M35
- 1757 CAMARGO, R. DE. Reasons for shading coffee. (In Portuguese.) Soc. Rur. Bras. Rev. 28(334): 14-16. July 1948. 9.2 B733
- 1758 CARVALHO, A. Culture and selection of "Robusta" coffee in Uganda. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 23(251): 8-12. Jan. 1948. 68.29 Sa63
- 1759 CATTORINI, P. E. Culture of drug plants: belladonna. (In Italian.) Fitoterapia 19(3): 8-11. July/Sept. 1948. 450 F55
- 1760 CATTORINI, P. E. European wild ginger, Asarum europaeum L. (In Italian.) Fitoterapia 19(3): 12-14. July/Sept. 1948. 450 F55
- 1761 CEYLON. COCONUT RESEARCH SCHEME. Annual report, 1946. Colombo, 1948. 21 p. 77.9 C33
- 1762 CHAMBERLAIN, E. E., and CLARK, P. J. Investigations on growing pyrethrum in New Zealand. II-III. New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 29: 215-232. Ref. Dec. 1947. 514 N48A
- II, Selection of clones: their variation in habit of growth, susceptibility to root-rot, yield and pyrethrin content of flowers; III, Factors influencing pyrethrin content of flowers, C. H. Proctor, joint author.
- 1763 CHEVALIER, A. La situation des plantations d'Hévéa dans le monde de 1939 à 1948. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 28: 297-316. July/Aug. 1948. 26 R323
- 1764 CLAUDE. Nos sources mellifères: le marronnier d'Inde. Belg. Apic. 12: 115. June 1948. 424.8 B41
- 1765 CLAUDE. Nos sources mellifères: l'épine-vinette. Belg. Apic. 12: 157-158. Aug./Sept. 1948. 424.8 B41
- 1766 COUTINHO, A. R. Experiment stations and the future of cacao culture. (In Portuguese.) Lavoura 52: 37-38. May/June 1948. 9.2 L39
- 1767 CURTIS, J. D. Animals that eat ponderosa pine seed. J. Wildlife Managt. 12: 327-328. July 1948. 410 J827
- 1768 CYPERT, E., and WEBSTER, B. S. Yield and use by wildlife of acorns of water and willow oaks. J. Wildlife Managt. 12: 227-231. July 1948. 410 J827
- 1769 DILL, H. H., and GREENWELL, G. A. Improvements in efficiency in harvesting smartweed seed. J. Wildlife Managt. 12: 324-325. July 1948. 410 J827
- 1770 FERWERDA, F. P. Coffee breeding in Java. Econ. Bot. 2: 258-272. Ref. July/Sept. 1948. 450 Ec7
- 1771 FOURNIER, P. Le livre des plantes médicinales et vénéneuses de France. v. 2. Paris, Lechevalier, 1948. 504 p. (Encyclopéd. Biol. 31) 459.5 F82L
- 1772 GARAYAR, H. N. Poda para el trasplante del té. Agronomía [Lima] 12(52): 51-52. Oct./Dec. 1947. 9.8 Ag83
- 1773 GARBER, K. Oelkürbisanbau im nordwest-deutschen klimagebiet. Neue Mitt. f. die Landw. 3: 165-166. June 5, 1948. 18 N39
- 1774 GATTEFOSSE, R. M. French lavender. (In Italian.) Piante Officinali 3(7): 1-4. July 1948. 71.8 P57
- 1775 GIESSEN, C. VAN DER, and OSTENDORF, F. W. The oldest Hevea trees in Java. Chron. Nat. 104: 197-200. Ref. July 1948. 514 B31
- 1776 GOETZE, G. Versuche zur ausnutzung des rotkees durch die honigbiene. Beitr. z. Agrarwiss. 2: 35-49. 1948. Ref. 18 R392
- 1777 GOMES, P. The culture of the maracujá-peroba [Passiflora edulis]. (In Portuguese.) Agronomía [Rio de Janeiro] 6: 311-312. Oct./Dec. 1947. 9.2 Ag892
- 1778 GRIMALDI, L. The increase in olive production should be maintained. (In Italian.) Ital. Vinic. ed Agr. 38: 115-116. May 31, 1948. 95.8 It1
- 1779 GRUNER, A. Der korbweidenbau, anbau und verwertung. Berlin, Siebeneicher Verlag, 1947. 48 p. 74 C92
- 1780 GUINDAL, J. M. Coriander. (In Portuguese.) Soc. Rur. Bras. Rev. 28(334): 23. July 1948. 9.2 B733
- 1781 HEETEREN, H. V. A. VAN. Experiments on the cultivation of Pyrethrum (Chrysanthemum cinerariaefolium vis.). (In Dutch.) Landbouw 20: 149-164. Apr./May 1948. 22.5 L23
- English summary.
- 1782 HEGER. Der adlerfarn im dienste der volks-ernährung. Forstw., Holzw. 1: 163-164. Sept. 1, 1947. 99.8 F7793
- Pteridium aquilinum.
- 1783 HODGE, W. H. Wartime Cinchona procurement in Latin America. Econ. Bot. 2: 229-257. July/Sept. 1948. 450 Ec7
- 1784 ILTIS, J. Le genet, plante textile. Terre Maroc. 17: 341-344. Sept. 1947. 24 T44



- 1785 IRVINE, F. R. The indigenous food plants of West African peoples. *N. Y. Bot. Gard. J.* 49: 225-236. Ref. Oct. 1948. 451 N48J
- 1786 KAUFMANN, S. How I restored the Banharão Velho coffee plantation! (In Portuguese.) *Colheitas e Mercados* 4(3/6): 3-8. Mar./June 1948. 255.3 Sa652
- 1787 KRISHNA, S., and BADHWAR, R. L. Aromatic plants of India. VII. *J. Sci. & Indus. Res.* 7(sup.): 117-128. Aug. 1948. 475 J82
- Burseraceae.
- 1788 MEHTA, M. L. Drug industry in Kashmir. *Indian Forester* 74: 54-56. Feb. 1948. 99.8 In2
- 1789 MELVILLE, A. R., and JONES, P. A. Some impressions of a tour of West Rift coffee areas. *Kenya. Coffee Bd. Monthly B.* 13: 37. Mar. 1948. 68.29 C652
- 1790 MOLFINO, J. F. Mirtaceas de uso medicinal. *Chacra* 18(215): 102-103. Sept. 1948. 9 C34
- 1791 NORMANHA, E. S., and PEREIRA, A. S. Best times for planting cassava. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 237-248. July/Aug. 1948. 9.2 R324
- 1792 PESCOFF, E. E. Trees with edible pods. *Westralian Farmers' Co-op. Gaz.* 13: 249-251. Apr. 1948. 280.28 W522
- Carob and mesquite.
- 1793 POLOVENKO, I. S., and FILIPPOV, D. I. Kok-sagyz. *Moskva, Sel'khozgiz*, 1948. 102 p. (Uchebniki i Uchebnye Posobia dlia Podgotovki Sel'skokhoziaistvennykh Kadrov Massovoï Kvalifikatsii) 78 P76
- 1794 RAMOS LARA, M. Almacigueras de café. *Café de El Salvador* 18: 577-580. July 1948. 68.28 C112
- 1795 RAMOS LARA, M. Educación de las plantillas por medio de podas iniciales. *Café de El Salvador* 208: 665-670. Aug. 1948. 68.28 C112
- 1796 RAMOS NUNEZ, G. La reproducción vegetativa del cacao en forma comercial. *Palmira. Estac. Agr. Expt. B. de Inform. Agropecuaria* 1575: 1-2. Jan. 26, 1948. 102.5 P18B
- 1797 RASMUSSEN, H. B., and LANNG, O. Determination of morphine in poppy capsules. Method and preliminary results. (In Dutch.) *Dansk Tidsskr. for Farm.* 22: 201-217. Ref. Sept. 1948. 396.8 D23
- English summary.
- 1798 REEVES, R. G., and MONTENEGRO G., G. Estudio preliminar del cultivo y valor comercial del Chan [Salvia hispánica] en El Salvador. *Café de El Salvador* 18: 569-575. July 1948. 68.28 C112
- 1799 ROGGEN, M. A. VAN. Final results of the planting distance experiment at Pasir Junghuhn Estate. (In Dutch.) *Arch. v. de Theecult.* 16: 25-35. Apr. 1948. 68.18 Ea72
- English summary.
- 1800 ROHDE, E. S. Cosmetic herbs. *My Gard.* 37: 163-167. Aug. 1948. 80 M995
- 1801 RUBBER RESEARCH BOARD. Report, 1947. *Ceylon*, 1948. 41 p. 78.9 C33R
- 1802 SHIANG, C. S. Manufacture of paper from reeds in north China. *Paper Trade J.* 127(17): 43-44. Oct. 21, 1948. 302.8 P196
- 1803 SIDDQUI, R. H., and WARSI, S. A. *Cryptostegia grandiflora* R. Br., a war time source of vegetable rubber. VI. Yield of latex and rubber. *Indian J. Agr. Sci.* 16: 399-404. Ref. Aug. 1946, pub. 1947. 22 Ag831
- 1804 SMITS, D. DE V. *Dichroa febrifuga*. (In Dutch.) *Chron. Nat.* 104: 163-167. Ref. June 1948. 514 B31
- English summary.
- 1805 STAHEL, G. Notes on cacao. (In Dutch.) *Surinam. Landbouwproefsta. Med.* 11, 18 p. Oct. 1947. 102.5 D95
- 1806 TAHIR, A. N. The olive tree. (In Arabic.) *Amman, Trans Jordan*, Jordan Press, 1947. 646 p. 94.7 T13
- 1807 TESTA, E. New orientation of coffee culture in São Paulo. (In Portuguese.) *São Paulo. Supt. dos Serv. do Café. B.* 23(251): 22-24. Jan. 1948. 68.29 Sa63
- 1808 TEUSCHER, H. Medicinal plants in a modern botanical garden [Montreal]. *Parks & Recreation* 31: 521-523. Sept. 1948. 98.8 P23
- 1809 VALDIVIA, A. Poda de los cafetos. *Campo [La Paz]* 2(12): 5-10. Apr. 1948. 9.1 C15
- 1810 VAZQUEZ BELLO, L. Los arboles adecuados para proporcionar sombra permanente a las plantaciones de café. *Cuba. Min. de Agr. Rev. (ser. 6)* 31(1): 63-67. Jan./June 1948. 8 Ag88Re
- 1811 VENEZUELA. MINISTERIO DE AGRICULTURA Y CRÍA. SECCIÓN DE DIVULGACIÓN AGROPECUARIA. Informe sobre el café en Venezuela. Caracas, 1948. 37 p. 68.2 V552
- 1812 WARD, D. J. Nectar from bluebells [*Scilla nonscripta*]. *Welsh Bee J.* 3: 80. July 1948. 424.8 W462
- 1813 WEBSTER, C. C. The effect of seed treatments, nursery technique and storage methods on the germination of tung seed. *East African Agr. J.* 14: 38-48. Ref. July 1948. 24 Ea74
- 1814 WEBSTER, C. C. The Vipya tung development scheme: a progress report. *Nyasaland Agr. Q. J.* 7: 30-35. Apr. 1948. 24 N983
- 1815 WILDEMAN, E. DE. A propos de médicaments antiléproux d'origine végétale. VIII-IX. *Inst. Roy. Colon. Belge. Sect. des Sci. Nat. et Méd. Mém.* 16(6), 77 p.; 16(8), 56 p. 1947-48. 504 B8362M
- VIII, Sur des espèces du genre *Acacia* L.; IX, Sur des espèces du genre *Capsicum* L. (*Solanacées*).
- 1816 WRIGHT, P. H. New discoveries with Caragana; this hardy, rapid growing shrub which has provided hedges and windbreaks on many prairie farms may now be grown from cuttings of new and better strains. *Family Herald & Weekly Star* 79(41): 6. Oct. 13, 1948. 7 F21

## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 1817 BAREN, F. A. VAN. Scientific, practical and social aspects of soil research in Indonesia. (In Dutch.) *Landbouw* 20: 195-209. June/July 1948. 22.5 L23
- Also in *Chron. Nat.* 104: 214-219. July 1948. 514 B31
- 1818 CASTRO, A. F. DE. Soil study. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7(1): 22-27. Jan./Mar. 1948. 9.2 Ag892
- 1819 COLLINGS, G. H. The beginning soils course, particularly the laboratory phase, with suggested aids. *Amer. Soc. Agron. J.* 40: 845-850. Sept. 1948. 4 Am34P
- 1820 FRANCO, A. "Silte," "silta," or "limo"? (In Portuguese.) *Agronomia [Rio de Janeiro]* 6: 305-306. Oct./Dec. 1947. 9.2 Ag892
- Brazilian name for silt.
- 1821 JORNLIN, F. M. Atomic research is stimulating interest in soil and plant science. *Japan Fert. Weekly* 50: 1. Oct. 29, 1947. 57.8 F417
- 1822 KELLOGG, C. E. Modern soil science. *Amer. Scientist* 36: 517-535. Ref. Oct. 1948. 470 Si2
- 1823 SAUCHELLI, V. Atomic energy in soil-fertilizer research program. *Com. Fert. Ybk.* 77(3-A): 26-28, 31. Sept. 1948. 57.8 C73Y

## Soil Physics

- 1824 BERTRAMSON, B. R. Soil aeration in relation to fertility. *Amer. Soc. Farm Mgrs. & Rur. Appraisers. J.* 12: 206-210. Oct. 1948. 281.8 Am32
- 1825 BOUYOUCOS, G. J., and MICK, A. H. A comparison of electric resistance units for making a continuous measurement of soil moisture under field conditions. *Plant Physiol.* 23: 532-543. Ref. Oct. 1948. 450 P692
- 1826 BOUYOUCOS, G. J., and MICK, A. H. A fabric absorption unit for continuous measurement of soil moisture in the field. *Soil Sci.* 66: 217-232. Ref. Sept. 1948. 56.8 So3
- 1827 BRIGGS, F. A. Where the rain stays put. *Farm & Ranch* 67(10): 30, 31. Oct. 1948. 6 T31
- Permeability of Iowa soils.
- 1828 BROWNING, G. M. Soil that breathes. *Iowa State Col. Agr. Ext. Iowa Farm Sci.* 3(4): 5-7. Oct. 1948. 275.28 Io94
- Soil structure.
- 1829 CHENG, K. L. Physical properties of some soils developed from sha-su loam of Nanking. (In Chinese.) *China. Natl. Geol. Survey. Soils Q.* 6: 53-60. June 1947. 56.8 So32
- English summary.
- 1830 HAMILTON, R. Standard dehydration curves and individual applications. (In Dutch.) *Landbouw* 20: 275-282. Ref. June/July 1948. 22.5 L23
- 1831 HENIN, S. Essai d'une théorie de la stabilité de la structure des sols. *Plant and Soil* 1: 167-178. Ref. Aug. 1948. 450 P696



- 1832 HILGEMAN, R. H. Changes in soil moisture in the top eight feet of a bare soil during twenty-two months after wetting. *Amer. Soc. Agron. J.* 40: 919-925. Oct. 1948. 4 Am34P
- 1833 HOLTAN, H. N. Factors in soil compaction and permeability. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 64-65. 1948. 500 V81
- 1834 HUBBELL, D. S., and GARDNER, J. L. Effects of aeration, compaction, and water-logging on soil structure and microflora. *Amer. Soc. Agron. J.* 40: 832-840. Ref. Sept. 1948. 4 Am34P
- 1835 JACKSON, M. L., and others. Weathering sequence of clay-size minerals in soils and sediments. I. *J. Phys. & Colloid Chem.* 52: 1237-1260. Oct. 1948. 381 J822
- S. A. Tyler, A. L. Willis, G. A. Bourbeau, and R. P. Pennington, joint authors.
- 1836 JORGE, W. DE, and PIZA, M. DE T. Rapid and precise determination of the wilting point of soils in the State of São Paulo by means of the moisture equivalent. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 249-257. Ref. July/Aug. 1948. 9.2 R324
- Summary in English.
- 1837 KOPACZEWSKI, W. Analyse électrocapillaire du sol. *Ann. Agron.* 18: 417-425. Ref. July/Aug. 1948. 14 An75A
- 1838 PREGO, A. J. Almacenamiento y conservación del agua en el suelo. *Campo y Suelo Argentino* 32(382): 26. Aug. 1948. 9 C15
- Soil Chemistry and Mineralogy**
- 1839 ARAUJO, J. E. G. Some applications of Vager's hyperbolic formula in soil analysis. (In Portuguese.) *Agronomia [Rio de Janeiro]* 6: 167-177. July/Sept. 1947. 9.2 Ag892
- 1840 BAAK, J. A. The mineral composition of recent ashes of some Java volcanoes. (In Dutch.) *Landbouw* 20: 269-274. Ref. June/July 1948. 22.5 L23
- 1841 BOISCHOT, P., and HEBERT, J. Fixation des arsénates par le sol. *Ann. Agron.* 18: 426-448. July/Aug. 1948. 14 An75A
- 1842 BOWER, C. A., and HUSS, R. B. Rapid conductometric method for estimating gypsum in soils. *Soil Sci.* 66: 199-204. Sept. 1948. 56.8 So3
- 1843 CAROLAN, R. Modification of Graham's method for determining soil organic matter by colorimetric analysis. *Soil Sci.* 66: 241-247. Oct. 1948. 56.8 So3
- 1844 COOPER, H. P. The significance of the relative energy properties of ions to the intensity of oxidation-reduction reactions of some nutrients. (Abs.) *Amer. Fert.* 109(4): 10. Aug. 21, 1948. 57.8 Am3
- 1845 DOBRZANSKI, B. The role played by colloidal particles in storing plant nutritive components in podsolized loamy sands. (In Polish.) *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E 2, i. e. 3: 1-18.* Ref. Jan. 4, 1948. 512 L96Ae
- English summary.
- 1846 DODGE, D. A., and JONES, H. E. The effect of long-time fertility treatments on the nitrogen and carbon content of a prairie soil. *Amer. Soc. Agron. J.* 40: 778-785. Ref. Sept. 1948. 4 Am34P
- 1847 GALIBERT, A. Adaptation des cépages aux terres calcaires: nouvelle méthode de dosage du calcaire actif des sols. *Terre d'Oc* 30: 281-284. July 1948. 14 Ar5
- 1848 GEE, J. C. DE. Investigations on the electrolyte content of soil rich in salt. (In Dutch.) *Landbouw* 20: 265-268. June/July 1948. 22.5 L23
- 1849 GUPTA, U. N. S., and others. Comparative studies on Indian soils. VI. The depth distribution of water-soluble salts in the profile. *Indian J. Agr. Sci.* 16: 307-315. Aug. 1946, pub. 1947. 22 Ag83I
- A. Sen, A. C. Ukil, and B. V. Nath, joint authors.
- 1850 HAMENCE, J. H. The effect of organic manures on the auxin content of soils and the "auxin balance" in soils. *Soc. Chem. Indus. J.* 67: 277-281. July 1948. 382 M31
- 1851 HANSEN, T. Are you aware of the value of soil analysis? (In Danish.) *Haven* 48: 128-129. Aug./Sept. 1948. 80 H29
- 1852 HOOGHOUT, S. B. Results of the determination of soil contents by lutum sub fractions. (In Dutch.) *Netherlands. Landbouwwoorlichtingsdienst. Maandbl.* 5: 355-357. Aug. 1948. 12 N383M
- 1853 HURWITZ, C. Effect of temperature of incubation of amended soil on exchangeable manganese. *Soil Sci.* 66: 267-272. Ref. Oct. 1948. 56.8 So3
- 1854 JENNY, H., BINGHAM, F., and PADILLA-SARAVIA, B. Nitrogen and organic matter contents of equatorial soils of Colombia, South America. *Soil Sci.* 66: 173-186. Ref. Sept. 1948. 56.8 So3
- 1855 JONES, U. S. Availability of phosphorus in rock phosphate as influenced by potassium and nitrogen salts, lime, and organic matter. *Amer. Soc. Agron. J.* 40: 765-770. Sept. 1948. 4 Am34P
- 1856 KIEL, H., and HARDJOSOESTASTRO, R. R. Preliminary communication on mineralogical investigation of soil profiles. (In Dutch.) *Landbouw* 20: 283-290. June/July 1948. 22.5 L23
- 1857 LYND, J. Q., and TURK, L. M. Permanent plastic standards for rapid soil and plant tissue testing. *Amer. Soc. Agron. J.* 40: 940-941. Oct. 1948. 4 Am34P
- 1858 MCGEORGE, W. T. Soil analysis--western soils. *Better Crops with Plant Food* 32(7): 9-14, 46-47. Aug./Sept. 1948. 6 B46
- 1859 MEHLICH, A., and REED, J. F. Effect of cation-exchange properties of soil on the cation content of plants. *Soil Sci.* 66: 289-306. Ref. Oct. 1948. 56.8 So3
- 1860 METIVIER, S. L'acide phosphorique dans nos terres de Beauce, du Thymerais et du Perche. *Défense Agr. de la Beauce et du Perche* 45: 226-227. Aug. 20, 1948. 14 D36
- 1861 MILES, I. E. Progress in soil testing in the South during the last decade. (Abs.) *Amer. Fert.* 109(4): 22, 24. Aug. 21, 1948. 57.8 Am3
- 1862 MISSOURI UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Test your soil. Columbia? 1948? 6 p. 275.2 M69Tes
- 1863 MONIGATTI, J. D. W., and others. Indicator plants. I. Virginia stock as an indicator of lime availability. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 29: 58-71. Aug. 1947. 514 N48A
- J. K. Johannesson, A. R. Browning, and R. J. W. McLaughlin, joint authors.
- 1864 NEARPASS, D. C., DROSDOFF, M., and BROWN, R. T. Effect of fertilizing tung trees with potash and other materials on the exchangeable cation content of Red Bay fine sandy loam. *Amer. Soc. Agron. J.* 40: 771-777. Ref. Sept. 1948. 4 Am34P
- 1865 NELSON, R. E. Slick spots and alkali soils in humid regions. *U. S. Soil Conserv. Serv. Pacific Region. Tech. Notes* 1: 1-6. Ref. June 1, 1948. 1.9609 T222
- 1866 QUASTEL, J. H., HEWITT, E. J., and NICHO-LAS, D. J. D. The control of manganese deficiency in soils. 1. The effects of sulphur and thiosulphates on crops growing on manganese-deficient soils. *J. Agr. Sci. [London]* 38: 315-322. Ref. July 1948. 10 J822
- 1867 RICH, C. I. The relation of available phosphorus to soil reaction. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 70. 1948. 500 V81
- 1868 SATYANARAYANA, K. V. S., SWAMINATHAN, K., and NATH, B. V. Comparative studies on Indian soils. VII. Carbon and nitrogen status of Indian soils and their profiles. *Indian J. Agr. Sci.* 16: 316-327. Aug. 1946, pub. 1947. 22 Ag83I
- 1869 SOUZA, A. O. DE. Determination of pH in acid soil. (In Portuguese.) *Lav. Arroz.* 2(17): 35-38. May 1948. 59.8 L39
- 1870 TEMME, J. The transformation of calcium cyanamide in the soil. *Plant and Soil* 1: 145-166. Ref. Aug. 1948. 450 P696
- 1871 TINELLI, R. Sur la présence du chrome dans les sols de France. *Paris. Acad. des Sci. Compt. Rend.* 227: 608-610. Sept. 20, 1948. 505 P21
- 1872 TODARO, F. The humic acid value of peat. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 124. July 15, 1948. 16 C72
- 1873 YU, H. An universal indicator of soil reaction (pH) test (bromocresolgreen-bromo thymolblue-phenolphthalein mixture). (In Chinese.) *China. Natl. Geol. survey. Soils Q.* 6: 39-52. June 1947. 56.8 So32



## Soil Biology

- 1874 BODSWORTH, C. F. The lowdown on some immigrants 'way up in Canada's Peace River Valley: the worms crawl in and the worms crawl out. *Forest & Outdoors* 44(10): 26-27. Oct. 1948. 99.8 C16  
Earthworms.
- 1875 BROADBENT, H. R. Organic farming and gardening. *Cross & Plough* 15(3): 3. 1948. 281.28 C88
- 1876 DRAGHETTI, A. Large and small organic circulation on the farm. (In Italian.) *Humus* 3(8): 3-4. Aug. 1947. 16 H88  
Biological aspects of soil management.
- 1877 GOŁEBIOWSKA, J. Contribution to the study of cellulose decomposition by soil molds. (In Polish.) *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E* 2: 223-248. Ref. 1947. 512 L96Ae  
English summary.
- 1878 KAUFMANN, J., POCHON, J., and TCHAN, Y. T. Recherches sur la microflore oligonitrophile du sol. I. Nutrition azotée minérale. *Inst. Pasteur Ann.* 75(1): 83-87. July 1948. 448.3 An75
- 1879 KLEINZELLER, A., and BASS, A. The metabolism of butyric acid in a soil microorganism. *Collect. des Trav. Chim. de Tchecoslov.* 13: 469-480. July/Sept. 1948. 385 C68
- 1880 SCHWARZ, M. Der regenwurm und seine arbeit im boden. *Osterr. Kleintierzüchter* 1948: 428. Aug. 1948. 49 Os7
- 1881 TRUFFAUT, G. La micropopulation du sol dans ses rapports avec la nutrition des plantes supérieures. I. *Agriculture [Paris]* 12: 297-300. Sept. 1948. 14 Ag823
- 1882 WICKENDEN, L. The hidden world. *Organic Gard.* 13(5): 20-24. Nov. 1948. 56.8 Or3  
Soil microorganisms.

## Soil-Plant-Animal Relationships

- 1883 ALBRECHT, W. A. Soil fertility and nutritive value of foods. *Agr. Leaders' Digest* 29(9): 18-20. Sept. 1948. 275.28 Am3
- 1884 BEAUMONT, A. B. Good soils - healthy animals. *Better Goatkeeping* 4: 768-770. Sept. 1948.
- 1885 BOERGER, A. La desmineralización de los continentes, creciente desequilibrio productivo y nutritivo. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 226: 9; 227: 2; 228: 6. July 8-22, 1949. 9.9 G15B
- 1886 HOPKINS, D. P. Fertilizers and our food. *Estate Mag.* 48: 297-299. Sept. 1948. 10 Es8
- 1887 JORNLIN, F. M. Importance of fertilizer and lime to human nutrition and health in Japan. I. *Japan Fert. Weekly* 51: 1, 4. Nov. 19, 1947. 57.8 F417
- 1888 PFEIFFER, E. E. New standards of soil and health. *Organic Gard.* 13(4): 15-19. Oct. 1948. 56.8 Or3
- 1889 SCHATZ, S. J. Mineraally rich fertile soils determine food values. *Calif. Dairyman* 28(15): 14-15. Aug. 28, 1948. 44.8 C12
- 1890 SMITH, R. W. Organic methods. *Organic Gard.* 13(5): 39-41. Nov. 1948. 56.8 Or3

## Soil Genesis, Formation, Classification, and Mapping

- 1891 CHU, S. M. Notes on the soils of Lushan. (In Chinese.) *China. Natl. Geol. Survey. Soils Q.* 6: 61-67. June 1947. 56.8 So32  
English summary.
- 1892 COLMAN, E. A. Soil surveying on wildlands: the problem and one solution. *J. Forestry* 46: 755-762. Ref. Oct. 1948. 99.8 F768
- 1893 DIAZ VIEL, C., and CUADRADO LOPEZ, B. Características de los suelos de la vega sur de La Serena. *Agrario* 13(400): 13. (Cont.) Apr. 1948. 9.3 Ag85
- 1894 DOMINICIS, A. DE. Soil of southern Italy. (In Italian.) *Ricerca Sci.* 18: 517-528. May/June 1948. 475 It1
- 1895 DRAKE, H. Some observations and experiences with regard to soil mapping in Jönköping County. (In Swedish.) *Jönköpings Läns Hushållningssällsk. Handl. och Tidskr.* 1947: 61-66. 1948. 11 J732
- 1896 ERHART, H. Sur la genèse des sols du Lublash de l'Afrique Équatoriale. *Paris. Acad. des Sci. Compt. Rend.* 227: 598-600. Sept. 20, 1948. 505 P21
- 1897 MCKELVEY, V. E., and BALSLEY, J. R., JR. Distribution of coastal black-sands in North Carolina, South Carolina, and Georgia, as mapped from an airplane. *Econ. Geol.* 43: 518-524. Sept./Oct. 1948. 403 Ec7

- 1898 PIJLS, F. W. G. Soil mapping of Netherlands. I. A detailed soil survey of the community Didam. (In Dutch.) *Netherlands. Dir. van den Landb. Verslag. van Landbouwk. Onderzoek*, 54, 116 p. Ref. 1948. 105.2 V61V  
English summary.

- 1899 RAESIDE, J. D. Some post-glacial climatic changes in Canterbury and their effect on soil formation. *Roy. Soc. New Zeal. Trans. & Proc.* 77: 153-171. Ref. Apr. 1948. 514 W46

- 1900 SINGH, D., and LAL, G. Kankar composition as an index of the nature of soil profile. *Indian J. Agr. Sci.* 16: 328-342. Ref. Aug. 1946, pub. 1947. 22 Ag83I

- 1901 VINK, A. P. A., and PANNERDEN, J. E. M. VAN N. T. Soil survey and forestry. (In Dutch.) *Nederland. Boschbouw-Tijdschr.* 20: 222-229. Aug. 1948. 99.8 N28  
English summary.

## SOIL MANAGEMENT

- 1902 BAILEY, R. Y. The more land he gets the better he keeps it. *Soil Conserv.* 14: 82-83, 86-87. Nov. 1948. 1.6 So3S

- 1903 DRAGHETTI, A. It is above all necessary to know the soil in order to increase production of holdings. (In Italian.) *Avvenire Agr.* 56: 101-105. May 1948. 16 Av9

- 1904 GAINES, F. P. The first and final frontier. *Shorthorn World* 33(14): 9-10, 65. Oct. 10, 1948. 43.8 Sh8

## Soil management.

- 1905 GIORDANO, B. The conquest of the Trapani "Sciara" [desert region]. (In Italian.) *Humus* 3(9): 24-25. Sept. 1947. 16 H88

- 1906 GOOD, C. M. The ultimate value of soil treatment. *Com. Fert.* 77(4): 42-44. Oct. 1948. 57.8 C73

- 1907 JUDKINS, W. P. Soil management and fertilization for peaches. *Mass. Fruit Growers' Assoc. Rpt.* 54: 96-101. 1948. 81 M384

- 1908 LONDOÑO G., L. Lo que hizo por mi la campaña de defensa y restauración de suelos. *Agr. Trop.* 4 (9): 47-48. Sept. 15, 1948. 26 Ag8

- 1909 MEHRING, A. L. Relation between plant nutrients removed from soils by harvesting crops and replaced in fertilizers and manures. (Abs.) *Amer. Fert.* 109(4): 26. Aug. 21, 1948. 57.8 Am3

- 1910 NELSON, R. T. Working back from exposed sub-soil. II. *Through Leaves* 26, i. e. 36(4): 16-17. July/Aug. 1948. 66.8 T41

- 1911 NIXON, W. M., and BELL, U. M. Crop residue management holds the soil together. *Southwest. Crop & Stock* 2(10): 31, 51. Oct. 1948. 6 So8942

- 1912 PERTIERRA, J. M. Nutrición vegetal, microclimatología y conservación del suelo. *Agricultura [Madrid]* 17: 349-353. (To be cont.) Aug. 1948. 15 Ag84

- 1913 SANDERS, J. T. Suggested permanent soil and water-use program and the probable role of fertilizers in it. *Amer. Fert.* 109(4): 7-8, 20, (5): 9, 24. Aug. 21-Sept. 4, 1948. 57.8 Am3

- 1914 STREET, O. E., and JENSEN, C. C. A soil management program for Penn tobacco farmers. *Better Crops with Plant Food* 32(7): 21-24, 41-43. Aug./Sept. 1948. 6 B46

- 1915 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Cheyenne County, Kansas. *Washington?* 1948. 25 p. 1.96 L22Phch

- 1916 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Phillips County, Kansas. *Manhattan, Kan.*, 1948. 20 p. 1.96 L22Phpc

- 1917 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Rawlins County, Kansas. *Washington?* 1948. 18 p. 1.96 L22Phra

- 1918 WORTHEN, E. L. Farm soils, their management and fertilization. Ed. 4. New York, Wiley, 1948. 510 p. (Wiley Farm Ser.) 56.7 W89

## Soil Fertility

- 1919 ADARRAGA, J. La vid y el suelo. *Agr. Lagunero* 3(28/29, i. e. 27/28): 10, 31. Aug./Sept. 1948. 8 Ag824



- 1920 ADRIANCE, G. W., and HAMPTON, H. E. Relations between soils and roots of Valley grapefruit trees. *Tex. Farming & Citric*. 25(3): 8. Sept. 1948. 80 T31
- 1921 ALBERTARIO, P. The economic need for fertilizing has returned. (In Italian.) *Gior. di Agr.* 58: 229. Aug. 29, 1948. 16 It1G
- 1922 ALBRECHT, W. A. Drought damage may be starvation for nitrogen. *Philfarmer* 1948: 2. Third Quarter 1948. 6 P53
- 1923 ANDREWS, W. B. Shall I fertilize oats with anhydrous ammonia? *Prog. Farmer, Miss.-Ark.-La.* Ed. 63(9): 107, 108, 110. Sept. 1948. 6 So81
- 1924 ANTHONY, J. L. Vetch supplies nitrogen in hill sections of the State. *Miss. Farm Res. [Miss. Sta.]* 11(10): 7. Oct. 1948. 100 M69Mi
- 1925 ARENZ, B., and SCHROPP, W. Fruchtfolgeversuche mit steigenden stickstoffgaben in form von kalkstickstoff. *Beitr. z. Agrarwiss.* 2: 12-19. 1948. 18 B392
- 1926 ARMIGER, W. H. Effects of urea-form fertilizer on turf. *Greenkeepers' Rptr.* 16(4): 32, 34. July/Aug. 1948. 60.18 G83
- 1927 BALDONI, R. Difficult soils: Mattaiono clays. (In Italian.) *Terra [Firenze]* 59(29): 3. July 18, 1948. 16 T274
- 1928 BECKETT, O. Cultivating the New Forest [England]; an experiment in crop growing on poor soil. *Field* 192: 318-319. Sept. 18, 1948. 10 F45
- 1929 BEUSECHEM, D. VAN. Short contribution to the knowledge of soil condition and agricultural value of fourteen areas investigated in Netherlands New Guinea. (In Dutch.) *Landbouw* 20: 210-229. Ref. June/July 1948. 22.5 L23
- 1930 BLACKMON, G. H. Cover crop for pecans pays. *Fla. Grower* 56(10): 29. Oct. 1948. 80 M72
- 1931 BREVIS, J. G. Is it profitable to lime? *Farming So. Africa* 23: 423-424. June 1948. 24 So842
- 1932 BUCHANAN, M. T. Fertilizer and farm chemical usage: Washington. *Com. Fert. Ybk.* 77(3-A): 53-54. Sept. 1948. 57.8 C73Y
- 1933 CARRERAS G., J. El abonamiento de la caña de azúcar. *Agronomia [Lima]* 12(52): 13-48. Oct./Dec. 1947. 9.8 Ag83
- 1934 CASTLE, R. B. Nitrogenous top dressing of spring cabbage. *Gt. Brit. Min. Agr. Agriculture* 55: 265-266. Sept. 1948. 10 G79J
- 1935 CHILDERS, L. E. Proper fertilizer placement necessary for best results. *Prod.-Consum.* 15(2): 5-6. Sept. 1948. 280.28 P942
- 1936 CHILEAN NITRATE EDUCATIONAL BUREAU, INC. Bibliography of the literature on the minor elements and their relation to plant and animal nutrition. Ed. 4. New York, 1948. 1037 p. 463.34 W67
- 1937 CLYDE, D. E. Corn a green manure crop. *U & I Cult.* 8(2): 19. Sept. 1948. 66.8 V12
- 1938 COLEMAN, R. Fertilizer and farm chemical usage: Mississippi. *Com. Fert. Ybk.* 77(3-A): 50-51. Sept. 1948. 57.8 C73Y
- 1939 COOK, H. L. More money in your pocket. *Ohio Farm Bur. News* 28(3): 14-15, 35. Oct. 1948. 6 Oh34
- Soil fertility.
- 1940 COTTA, A. On the formation of agricultural and forest land. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 132-134. July 31, 1948. 16 C72
- 1941 DESALBRES, J. Les pois chiches épuisent-ils le sol? *Terre Maroc.* 18: 199-202. Aug. 1948. 24 T44
- 1942 DIEHL, R., and TSVETOUKINE, V. Réaction de différentes cultures à la carence en potasse. *Potasse* 22: 131-135. July/Aug. 1948. 57.8 P84
- 1943 ELLIOTT, N. R. Feeding shade trees. *Gard. Club Amer. B. (ser. 11)* 10: 15-16. Sept. 1948. 90.32 G16
- 1944 FERRALL, P. Acid versus limestone soil. *African Violet Mag.* 2: 11. 1948. 80 Af8
- 1945 FFRENCH-MULLEN, M. D. Rice experiments. I. Fertilizer trials. *Fiji Dept. of Agr. Agr. J.* 19: 4-10. Jan. 1948. 25 F47Ag
- 1946 FRANKENA, J. H. Nitrogen fertilizing of grassland. (In Dutch.) *Netherlands. Landbouwvoorlichtingsdienst. Maandbl.* 5: 367-375. Aug. 1948. 12 N383M
- 1947 FRUHSTORFER, A. Flüssig- oder festdünger? *Neue Mitt. f. die Landw.* 3: 267-268. Sept. 5, 1948. 18 M39
- 1948 GALLETTI, A. C. On the Volterra hills the olives thrust their sad branches to the sky. (In Italian.) *Terra [Firenze]* 59(28): 2. July 11, 1948. 16 T274
- Lack of fertilizer.
- 1949 GARDNER, B. Manures and manuring for Nyasaland gardens. *Nyasaland Agr. Q. J.* 7: 26-30. Apr. 1948. 24 N983
- 1950 GARNER, H. V. Top dressing wheat. *Farming [Norwich]* 2: 268-272. Sept. 1948. 10 F2236
- 1951 GAROLA, J. Observations et expériences sur le rôle de la fumure phosphatée en Eure-et-Loir. *Ann. Agron.* 452-461. Ref. July/Aug. 1948. 14 An75A
- 1952 GENTER, C. F. Corn fertilization using factorial designs. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 72-73. 1948. 500 V81
- 1953 GILLIN, P. La matière organique et l'humus. *Colon Franç. de Tunisie* 58(2063): 4. Sept. 4, 1948. 24 C712
- 1954 GRIFFEE, F. Fertilizer and farm chemical usage: Maine. *Com. Fert. Ybk.* 77(3-A): 43-44, 46. Ref. Sept. 1948. 57.8 C73Y
- 1955 GRISSOM, P. H. Bur clover, wild peas lead in test. *Miss. Farm Res. [Miss. Sta.]* 11(9): 1, 7. Sept. 1948. 100 M69Mi
- As a source of nitrogen.
- 1956 GRISSOM, P. H. Corn fertilization in the Yazoo-Mississippi Delta. *Miss. Agr. Expt. Sta. B.* 454, 13 p. May 1948. 100 M69
- 1957 GRISSOM, P. H. Winter legumes for cotton production. *Cotton Gin & Oil Mill Press* 49(17): 28, 30. Aug. 21, 1948. 304.8 C822
- 1958 HADDON, C. B. Fertilizer a miracle worker but cannot do it all. *Victory Farm Forum* 1948(32): 7. Sept. 1948. 281.8 F226
- 1959 HANSEN, F. Fertilizer experiments at Studsgaard Experimentation Station, 1937-44. (In Danish.) *Denmark. Statens Forsøgsvirks. i Plantekultur, Beret.* 408: 501-527. 1948. 11 D412
- 1960 HARMER, P. M. Sodium requirements in muck land fertilization. *Victory Farm Forum* 1948(32): 4-5. Sept. 1948. 281.8 F226
- 1961 HAY, W. D. Our hungry grass. *Farmers Weekly [London]* 29(9): 38. Aug. 27, 1948. 10 F2226
- Fertilizers.
- 1962 HERRERO DE EGANA, M., and MARTIN PENASCO CAMACHO, T. Los suelos del naranjo en el término de Alcira. *Spain. Inst. Nac. de Invest. Agron. B.* 18: 141-180. June 1948. 105.6 Sp14
- French and English summaries.
- 1963 HERWEIJER, C. H. Burning of grass land. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 215-218. Ref. Oct. 1947. 41.8 V51
- 1964 HOLTON, A. Three years in South Dakota. *Com. Fert.* 77(3): 22-23, 41. Sept. 1948. 57.8 C73
- Soil fertility.
- 1965 HOPKINS, D. P. Raspberries on the surface-compost system. *Gard. Work Amateurs* 69(1901): 9, 11. Oct. 2, 1948. 80 G1627
- 1966 HOON, R. C., DHAWAN, C. L., and MADAN, M. L. The effect of certain soil factors on the yield of major crops in the Punjab. II. Rice. *Indian J. Agr. Sci.* 16: 356-379. Ref. Aug. 1946, pub. 1947. 22 Ag83I
- 1967 HORSFALL, J. G. Fertilizer and farm chemical usage: Connecticut. *Com. Fert. Ybk.* 77(3-A): 32, 34. Sept. 1948. 57.8 C73Y
- 1968 HUNT, W. J. Double-deck your farm with fertilizer. *Successful Farming* 46(10): 60-61. Oct. 1948. 6 Sul2
- 1969 HUPPERT, V. Mineräldünger und bodenfruchtbarkeit. *Neue Mitt. f. die Landw.* 3: 163-164. June 5, 1948. 18 N39
- 1970 HUTCHESON, T. B. No bare acres at Christmas is a good motto. *Prog. Farmer, Car.-Va.* Ed. 63(10): 17. Oct. 1948. 6 P945
- Winter cover crops for soil protection.
- 1971 INDIANA. AGRICULTURAL EXPERIMENT STATION. Fertilizer recommendations for field crops in Indiana. *Ind. Agr. Expt. Sta. Agron. Mimeog. AY* 115, 4 p. Oct. 1947. 100 In2Agr
- 1972 IVERSEN, K. Swedish and Danish lime experiments. II. (In Danish.) *Dansk Landbr.* 67: 328-329. Sept. 2, 1948. 280.28 V91
- 1973 JANSSON, S. L. Reform tendencies in agriculture. A review. (In Swedish.) *K. Lantbruksakad. Tidskr.* 87: 129-160. 1948. 104 Sw3
- English summary.
- Chiefly on soil fertility.



- 1974 JOHNSTON, J. R., and HILL, H. O. Legumes on Texas blacklands need phosphate fertilizer to be effective. *Prod.-Consum.* 15(2): 7. Sept. 1948. 280.28 P942
- 1975 KIESSLING, L. Lohnt sich die anwendung der handelsdüngemittel? *Bad. Landw. Wchbl.* 3: 128-129. Aug. 28, 1948. 18 B142
- 1976 KING, G. H. Fertilizer and farm chemical usage: Coastal Georgia. *Com. Fert. Ybk.* 77(3-A): 38-39. Sept. 1948. 57.8 C73Y
- 1977 KIRSTE, A. Auswirkung der düngung auf den zuckerrübenantrag. *Neue Mitt. f. die Landw.* 3: 269-270. Sept. 5, 1948. 18 M39
- 1978 KNOX, R. G. Wealth below the hoof. *Farmer's Mag.* 45(9): 9, 63. Sept. 1948. 7 C165  
Soil fertility in Ontario.
- 1979 KUTNEWSKY, F. Potash feeds the nation's farms. *New Mexico* 26(117): 11-13, 42-45. Nov. 1948. 288.8 N46
- 1980 KUZMESKI, J. W. Fertilizer and farm chemical usage: Massachusetts. *Com. Fert. Ybk.* 77(3-A): 46-48, 50. Sept. 1948. 57.8 C73Y
- 1981 LAL, K. N., and SHRIVASTAVA, S. Role of boron in crop production. *Sci. & Cult.* 14: 57-62. Ref. Aug. 1948. 475 Sc124
- 1982 LEMMON, L. Keep a history of your soil. *Organic Gard.* 13(5): 32. Nov. 1948. 56.8 Or3
- 1983 LIBOWITZKY, J. A. Zur wuzelpflege und düngung im obstbau. *Gart.-Z. Illus. Flora* 71: 113-114. Aug. 1948. 80 G1991
- 1984 LIGUORI, F. Phosphorus and grain. (In Italian.) *Terra [Firenze]* 59(33/34): 2. Aug. 22, 1948. 16 T274
- 1985 LIMA, P. DE O. Fertilizing tomato plants. (In Portuguese.) *Rev. Rur. Bras.* 28(332): 32. May 1948. 9.2 B733
- 1986 LIME. *Farm Q.* 3(3): 84-87, 120, 122-123, 142. Autumn 1948. 6 F22995  
Functions and benefits of lime.
- 1987 LOMA, J. L. DE LA. El trébol hubam y la conservación de la fertilidad de los suelos. *Agr. Lagunero* 3(28/29, i. e. 27/28): 16-17. Aug./Sept. 1948. 8 Ag824
- 1988 LORCH. Entscheidung im düngemittelbezug! Löhnen sich die handelsdünger heute? *Fortschr. in der Landw.* 1: 33-35. Aug. 14, 1948. 18 F773
- 1989 LORENZ, O. A. Fertilization of celery; adequate supply of nitrogen required for best yields. *Calif. Agr. [Calif. Sta.]* 2(9): 4. Sept. 1948. 100 C12Cag
- 1990 MCGEE, H. A. Potash-nitrate side dressing of flue-cured tobacco. *Victory Farm Forum* 1948(32): 11-12. Sept. 1948. 281.8 F226
- 1991 MCINTYRE, A. C. Why waste wood? *Soil Conserv.* 14: 75-78. Ref. Nov. 1948. 1.6 So3S  
Sawdust and wood chips as a soil organic supplement.
- 1992 MACINTIRE, W. H., and others. Analytical evaluation of certain synthetic organic phosphates in relation to their fertilizer effectiveness in pot cultures. *Soil Sci.* 66: 249-257. Ref. Oct. 1948. 56.8 So3  
S. H. Winterberg, L. J. Hardin, A. J. Sterges, and L. B. Clements, joint authors.
- 1993 MCMICHAEL, C. W. Minor elements for clover, lespedeza, and soybeans. *Victory Farm Forum* 1948(32): 16. Sept. 1948. 281.8 F226
- 1994 MCVICKAR, M. H. Fertilizing small grain crops. *South. Planter* 109(9): 8, 14. Sept. 1948. 6 So89
- 1995 MARCHESI SOCIATS, J. M. El abono potásico en el cultivo del tomate. II. *Siembra* 1948(6): 10-13. June 1948. 15 Si1
- 1996 MARFORI, R. T. Fertilize our soil to increase crop yields. *Agr.-Com.-Indus. Life* 10(7): 13, 29. July 1948. 25 Ag8
- 1997 MARTIN, J. P. Effect of fumigation, fertilization, and various other soil treatments on growth of orange seedlings in old citrus soils. *Soil Sci.* 66: 273-288. Ref. Oct. 1948. 56.8 So3
- 1998 MATTHEWS, L. The backyard grower can do much to improve his soil. *North Amer. Gladiolus Council.* B. 15: 15, 19. Sept. 1948. 96.43 N81
- 1999 MATTHEWS, V. D. Fertilizing shade trees. *Home Gard. So.* 8: 225. Oct. 1948. 80 H755
- 2000 MELLO, E. M. DE. Importance of green manure in the Tropics. (In Portuguese.) *Lavoura* 52: 62, 66. Mar./Apr. 1948. 9.2 L39
- 2001 MILLER, P. R. Fertilizer and farm chemical usage: Vermont. *Com. Fert. Ybk.* 77(3-A): 51, 53. Sept. 1948. 57.8 C73Y
- 2002 MILLICE, R. B. Getting the most from Hubam as green manure. *Through Leaves* 26, i. e. 36(4): 39-40. July/Aug. 1948. 66.8 T41
- 2003 MOOERS, C. A., WASHKO, J. B., and YOUNG, J. B. Effects of wheat straw, lespedeza sericea hay, and farmyard manure, as soil mulches, on the conservation of moisture and the production of nitrates. *Soil Sci.* 66: 307-315. Oct. 1948. 56.8 So3
- 2004 MORGANDO, A. A new method of localized, deep fertilizer application. (In Italian.) *Humus* 3(9): 27-28. Sept. 1947. 16 H88
- 2005 MOŚCOW. VSESOTUZNYI NAUCHNO-ISSLEDOVATEL'SKII INSTITUT UDObRENI I AGROPOCHOVO-VEDENIA IMENI K. K. GEDROITSA. Primenenie udobrenii v nechernozemnoi zone SSSR [Application of fertilizers in the non-Black soil area of U. S. S. R.]. Moskva, Sel'khozgiz, 1948. 48 p. 57 M85P
- 2006 MOWRY, H. Fertilizer and farm chemical usage: Florida. *Com. Fert. Ybk.* 77(3-A): 34, 37-38. Sept. 1948. 57.8 C73Y
- 2007 NELSON, L. B., and PRITCHETT, W. L. Nitrogen helps winter wheat. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 3(3): 4-5. Sept. 1948. 275.28 Io94
- 2008 NELSON, W. L. New possibilities in production of cotton through adequate fertilization. *Victory Farm Forum* 1948(32): 14-15. Sept. 1948. 281.8 F226
- 2009 NIETO GARCIA, J. Fertilización de los terrenos con abonos verdes. *Cult. Mod.* 31: 248. July 1948. 15 C89
- 2010 NIXON, W. M. Since ancient days, good farmers have known that legumes are soil builders. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(10): 77. Oct. 1948. 6 So81
- 2011 NORIEGA B., C. Necesidad de agregar material calcareo a los suelos. *Campo y Suelo Argentino* 32(382): 4-5. Aug. 1948. 9 C15
- 2012 NORRIS, R. E. Many important factors in citrus fertilization. *Victory Farm Forum* 1948(32): 5-6. Sept. 1948. 281.8 F226
- 2013 O'GRADY, L. J. The effect of alfalfa and sugar beet residues on following crops. III. *Rev. d'Oka* 22: 127-156. Ref. July/Aug. 1948. 7 Ok1
- 2014 OHMASA, M. Study on soil types of beech forest in Japan. *Japan Fert. Weekly* 60: 3. May 5, 1948. 57.8 F417
- 2015 OLDERSHAW, A. W. Value of surplus straw; an important factor in maintaining soil fertility. *Field* 192: 326. Sept. 18, 1948. 10 F45
- 2016 PARHAM, S. A. Split nitrogen applications to cotton justified. *Victory Farm Forum* 1948(32): 8. Sept. 1948. 281.8 F226
- 2017 PEEVY, W. J. Better oat yields through proper fertilization. *Victory Farm Forum* 1948(32): 5. Sept. 1948. 281.8 F226
- 2018 PEREIRA, H. C. Manures & fertilisers. *Kenya. Coffee Bd. Monthly B.* 13: 36-38. Mar. 1948. 68.29 C652
- 2019 PETERSON, M. L. Irrigated pastures. *Calif. Agr. [Calif. Sta.]* 2(10): 7, 16. Oct. 1948. 100 C12Cag
- 2020 POORNAPREGNA, V. N., and NARAYANAYYA, D. V. Response of the cotton crop to soil types in Warangal Subha. *Indian Cotton Growing Rev.* 2: 130-139. July 1948. 72.8 In23
- 2021 PORSE, O. Fertility of soil in Dalarna County, illustrated through soil mapping. (In Swedish.) *Lantbrukstidskr. för Dalarna* 1948: 125-132. Aug. 1948. 11 L29
- 2022 PRIESTLEY, L. Taking the risk out of the ranges. *Com. Fert.* 77(3): 31, 33, 45-46. Sept. 1948. 57.8 C73  
Fertilizers and irrigation.
- 2023 PROCOPIO, M. Maintenance fertilization. (In Italian.) *Humus* 4(8): 3-5. Aug. 1948. 16 H88
- 2024 QUAYLE, W. L. Sugar beet fertilizer needs shown in Wyoming tests. *Mont. Farmer-Stockman* 36(2): 9. Sept. 15, 1948. 6 M764
- 2025 RATH. Das düngen des weinstockes. *Gart.-Z. Illus. Flora* 70: 175. Dec. 1947. 80 G1991
- 2026 RETIEF, D. F. Methods of fertilizer application for tobacco. *Farming So. Africa* 23: 453-460, 494. July 1948. 24 So842
- 2027 ROCASOLANO, C. La fertilidad de los suelos. *Cult. Mod.* 31: 218-219. June 1948. 15 C89



- 2028 ROE, J. You could have had more corn. *Successful Farming* 46(10): 30. Oct. 1948. 6 Sul2  
Tests for nitrogen deficiency in the soil.
- 2029 RØYSET, S. Can we increase meadow and pasture crops by heavier and more efficient potash fertilizing? (In Norwegian.) *Norsk Landbr.* 14: 114-118. Mar. 19, 1948. 11 N8122
- 2030 RUMMELL, L. L. "Ill fares the land" where grass is not grown. *Ohio Farmer* 202(7): 3, 37. Oct. 2, 1948. 6 Oh3  
Grass crops for soil improvement in Ohio.
- 2031 SANSOME, F. W. Principles of horticulture. IV. Manures and manuring. *North. Gard.* 2: 481-482. Aug. 1948. 80 N816
- 2032 SAUCHELLI, V. Use fertilizers to grow quality crops. *South. Canner & Packer* 9(10): 10-11, 20. Oct. 11, 1948. 389.8 So82
- 2033 SAWYER, F. G. How green is our valley. *Chem. & Engin. News* 26: 3258-3260. Nov. 1, 1948. 381 J825N  
Application of anhydrous ammonia to soil.
- 2034 SEEDORF, W. Die dürré als bodenschätzer—verpasste gelegenheiten? *Neue Mitt. f. die Landw.* 3: 105. Apr. 5, 1948. 18 N39
- 2035 SEELEY, J. G. Soil nitrate levels for roses. *Florist Exch.* 111(19): 18. Nov. 6, 1948. 80 F666
- 2036 SELBY, H. W. Some implications of soil fertility. *Amer. Fert.* 109(4): 11, 26, 28, 30. Aug. 21, 1948. 57.8 Am3
- 2037 SHEDEROV, S. Local application of lime for the control of clubroot of cabbage. (In Russian.) *Kolkhoz. Proizvod.* 8(5): 39. May 1948. 281.8 K83
- 2038 SIMMONS, C. F. Fertilizer and farm chemical usage: Alabama. *Com. Fert. Ybk.* 77(3-A): 31-32. Sept. 1948. 57.8 C73Y
- 2039 SLIJCKEN, A. VAN. Investigation on the influence of the minimum-law of Liebig in the manuring of potatoes. (In Flemish.) *Gent. Landbouwhoges. Meded.* 13: 79-112. Mar. 1948. 105.1 G344  
French and English summaries.
- 2040 SLOAN, G. D. The citrus calendar: scientific information available enables growers to establish a 12-months' fertilization schedule. *Citrus [Tampa]* 11: 16, 18. Sept. 1948. 80 C498
- 2041 SMIRNOV, N. D. Posobie po primeneniiu udobrenii [A book on the application of fertilizer]. Moskva, Sel'khozgiz, 1948. 86 p. 57.7 Sm4
- 2042 SMITH, R. C. Plan a fall fertilizer program for your orchard. *East. States Coop.* 24(10): 16-17. Oct. 1948. 280.28 Ea7
- 2043 STARCHER, G. C. Nine essential elements. *East. Fruit Grower* 11(7): 11, 14-15, 17. (To be cont.) Sept. 1948. 80 Ea73  
Soil fertility.
- 2044 STEAD, H. A. J. Fertilizing of flower and vegetable garden. (In Afrikaans.) *Landbouweekblad* 30 (1515): 34. July 21, 1948. 24 L232
- 2045 STEPHENSON, R. E. Lime, in one of three forms, improves acid soil. *Better Fruit* 43(3): 10, 12-13. Sept. 1948. 80 B46
- 2046 STEPHENSON, R. E. Nitrogen's place in fruit production. *Calif. Farmer, North Ed.* 189: 302. Oct. 9, 1948. 6 C126
- 2047 STRAUSS, J. L. A study of peanut response to varying levels of plant nutrients. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 71-72. 1948. 500 V81
- 2048 STUCKEY, H. P. Fertilizer and farm chemical usage: Georgia. *Com. Fert. Ybk.* 77(3-A): 39-40. Sept. 1948. 57.8 C73Y
- 2049 STYLES, A. J. Anhydrous ammonia takes hold on the Delta. *Southwest. Crop & Stock* 2(10): 27. Oct. 1948. 6 So8942  
Method of application and equipment.
- 2050 TERMAN, G. L., and FREEMAN, J. F. Interpretation of yield data from a long-time soil fertility experiment. *Amer. Soc. Agron. J.* 40: 874-884. Oct. 1948. 4 Am34P
- 2051 THORNTON, M. K. Fertilizer recommendations for Texas, 1948-1949. *Tex. Agr. Col. Ext. B.* 165, 15 p. 1948. 275.29 T312
- 2052 THROCKMORTON, R. I. Fertilizer and farm chemical usage: Kansas. *Com. Fert. Ybk.* 77(3-A): 40, 42. Sept. 1948. 57.8 C73Y
- 2053 TIEDJENS, V. A. How much lime should we use? *Better Crops with Plant Food* 32(7): 17-20, 47-49. Aug./Sept. 1948. 6 B46
- 2054 VALDES LOMA, A. Nitrógeno, fósforo, potasio. *Campo [La Paz]* 2(12): 12-15. Apr. 1948. 9.1 C15  
Fertilizers.
- 2055 VALLANCE, L. G. Results of a two-cycle fertilizer trial. The interaction of nitrogen and potash. *Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B.* 12: 29-31. July 1, 1948. 65.9 Q3C
- 2056 VAN DERLINDEN, L. What plant foods do for crops. *Fruit & Veg. Rev.* 9(6): 17, 29. Sept. 1948. 80 C1224
- 2057 VAZQUEZ HUMASQUE, A. Ventana al campo lagunero; necesitamos yerbajos. *Agr. Lagunero* 3 (28/29 i. e. 27/28): 6-7. Aug./Sept. 1948. 8 Ag824
- 2058 VERGNAUD, H. Production accélérée de matière humique par emploi de doses réduites de sels ammoniacaux. *Terre d'Occ.* 30: 266-274. July 1948. 14 Ar5
- 2059 VOLK, N. J. Increasing the productivity of Indiana soils. *Victory Farm Forum* 1948(32): 8. Sept. 1948. 281.8 F226
- 2060 WALBRIDGE, H. F. Cabbages excel in compost. *Organic Gard.* 13(4): 26. Oct. 1948. 56.8 Or3
- 2061 WALKER, T. W. The efficient use of fertilizers on farm crops. *Worcestershire Agr. Chron.* 16: 273, 275, 277, 279, 281, 283, 285. Aug. 1948. 10 W892
- 2062 WALSH, J. C. Soil fertility in the orchard. *Victoria. Dept. Agr. J.* 46: 345-349. Aug. 1948. 23 V66J
- 2063 WERTH, A. J. Obstbau auf niedermoor. *Neue Mitt. f. die Landw.* 3: 160. June 5, 1948. 18 N39
- 2064 WEZER, A. VAN. Necessity for rotation of crops under glass; the theory of soil fatigue. (In Flemish.) *Cult. en Handel* 14: 496-497. Aug. 1948. 80 C892
- 2065 WITTMANN, R. Was jeder waldbesitzer von der forstkalkung wissen muss. *Bauernwald* 2: 29-30. July 31, 1948. 99.8 B32
- 2066 WOLF, B. The use of commercial fertilizer in vegetable crop production at Seabrook Farms. (Abs.) *Amer. Fert.* 109(4): 22. Aug. 21, 1948. 57.8 Am3
- 2067 WOOD, R. R. Some soil fertility problems of the Yellowstone Valley: nitrogen. *Through Leaves* 26, i. e. 36(4): 13-15. July/Aug. 1948. 66.8 T41

#### Soil Tilth and Tillage

- 2068 BOOTH, E. "Lay down de hoe!" Power machinery and a liberal mulching with straw make hoeing the potato crop unnecessary. *Farmer's Mag.* 45(10): 10, 77. Oct. 1948. 7 C165
- 2069 BRIOLINI, M. Tillage of orchard soils. (In Italian.) *Riv. di Fruttic.* 10: 88-89. July 1948. 80 R52
- 2070 BRONSART, H. VON. Pflug und boden. *Wirtschaft.* 3(36): 14. Sept. 3, 1948. 280.8 W742
- 2071 BUCK, C. W. Subsurface tillage on American farms. *Agr.-Com.-Indus. Life* 10(8): 14, 15. Aug. 1948. 25 Ag8
- 2072 CAVINA, R. When should the land be plowed? (In Portuguese.) *Granja* 3(33): 12-13. June 1948. 9.2 G76
- 2073 COURANJOU, A. Halte a la paresse! Fruits et Primeurs de l'Afrique du Nord, Éd. Maroc. 18: 267-268. Sept. 1948. 80 F9482  
Tillage.
- 2074 EDMINSTER, T. W., and LILLARD, J. H. Factors in the development of conservation tillage practices. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 65-66. 1948. 500 V81
- 2075 FENSKA, R. R. The role of mulch in forest and garden. *N. Y. Bot. Gard. J.* 49: 241-243. Oct. 1948. 451 N48J
- 2076 HACKER, V. Die bodenbearbeitung zur wintersaat. *Württemberg. Wchnbl. f. Landw.* 115: 240-241. Sept. 4, 1948. 18 W96
- 2077 HEIDENREICH, V. T. Tillage taboo in this garden. *Idaho Farmer* 66: 717. Oct. 7, 1948. 6 G282
- 2078 HENDRICKSON, B. H. Copy nature's method by stubble mulching. *South. Agr.* 77, i. e., 78(10): 28-29. Oct. 1948. 6 So83
- 2079 MCINTYRE, A. C. Wood and soil husbandry. *Forest Leaves* 38: 12-13. Sept./Oct. 1948. 99.8 F763  
Use of sawdust.
- 2080 NIVEN, L. A. The soil stays in the orchard and grows richer. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(10): 24-25. Oct. 1948. 6 So81  
Sod and mulch method.



2081 PLEYER. Der pflug soll am erntewagen hängen. Landw. Wchnbl. 138: 196. Aug. 14, 1948. 18 L2338

2082 SANCHEZ S., J. J. Labores agrícolas de las regiones cálidas. Rev. de Agr. [Costa Rica] 20: 355, 357-358. Sept. 1948. 8 Es1

2083 WADLOW, T. J. All turned over and level. Farmers Weekly [London] 29(10): 41. Sept. 3, 1948. 10 F2226

Plowing technique.

2084 WRIGHT, P. H. Summerfallow's waste; will prairie farmers turn to intertillage? Saskatchewan Farmer 39(17): 7. Sept. 2, 1948. 7 Sa74

#### Drainage, Irrigation, Water Supply, and Flood Control

2085 ACHTERBERG, A. Sprinklers highlight Trico Field Day; irrigators take eager interest in portable sprinkler and gated pipe systems. Irrig. Farmer 6(6): 1, 8, 9. Oct. 7, 1948. 55.8 Ir78

2086 AGARWALA, R. P. The Son Canals head-works. India. Cent. Bd. Irrig. J. 5: 161-168. Apr. 1948. 55.9 In222C

2087 ANTES, W. Irrigators learn not to use excess water. Lincoln Evening J. Farm Sect. 2(5): 6. Aug. 1948. 6 L63

2088 AVIS, J. H. Supervision and maintenance of drainage conduit. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 59: 362-363. Sept. 1948. 12 N282

2089 BARKER, J. R. Measurement of irrigation water; a handbook of discharge tables for ditch riders and irrigators. Utah. State Agr. Col. Ext. B. 166, 28 p. n. d. 275.29 Utl

2090 BECKMAN, H. J. America's new acres. Farmer's Digest 12(6): 64-66. Nov. 1948. 6 F2206

Reclamation.

2091 BENTLEY, M. R., ROSBOROUGH, J. F., and HEATON, C. R. Subirrigation for gardens. Tex. Agr. Col. Ext. B. 92, rev., 11 p. June 1947. 275.29 T312

2092 BODDY, H. "Tailored" irrigation systems for economy. Calif. Citrog. 33: 521. Oct. 1948. 80 C125

2093 BONTEKOE, F. The water under the roots. Farmers Weekly [London] 29(9): 39, 41. Aug. 27, 1948. 10 F2226

Control of water in the soil in Holland.

2094 BOYER, W. P. Irrigation helps good land make better crops. Prog. Farmer, Miss.-Ark.-La. Ed. 63(9): 15, 110. Sept. 1948. 6 So81

In Jefferson County, Arkansas.

2095 BUESCHER, R. R. Making more from [over-head] irrigation. Tex. Livestock J. 7(9): 6, 39. Sept. 15, 1948. 49 T29

2096 BUTTAZZONI, G. The flow of underground waters. (In Italian.) Agr. Bresciana 1(31/32): 3. Aug. 4/11, 1948. 16 Ag89

2097 CALDER, G. G. Irrigation in central Otago. New Zeal. Dept. Agr. B. 268: 129-135. 1948. 23 N48Bu

2098 CALIFORNIA. LEGISLATURE. JOINT COMMITTEE ON WATER PROBLEMS. Preliminary report to the Legislature, 1948 regular session, on water problems of the State of California. Sacramento, 1948. 77 p. 292 C122R

2099 CANADA. DEPT. OF AGRICULTURE. RECLAMATION STATION. Progress report, 1936-1947. Melita, Manitoba, 1948. 31 p. 101 Ex6R

2100 CARRIER, L. Flood control in reverse. Commonwealth 15(10): 9-12. Oct. 1948. 280.8 C732

2101 CAVALCANTI, O. DE H., MEYER, P. R., and DUARTE, R. R. Water consumption in rice culture. (In Portuguese.) Lav. Arroz. 2(17): 39. May 1948. 59.8 L39

2102 CLINTON, F. M. "Invisible" irrigation on Egin Bench [Idaho]. Reclam. Era 34: 182-184. Oct. 1948. 156.84 R24

2103 DAVIS, E. H. A Georgia problem solved by irrigation. Com. Fert. 77(3): 19-21. Sept. 1948. 57.8 C73

Similar titles in: Farm Electrification 2(5): 1-6. Sept./Oct. 1948. 335.8 F224; New Agr. 30(12): 8-9. Sept. 1948. 66.8 Su32

2104 DIJK, J. W. VAN. Data on irrigation water, especially in relation to the potash problem in irrigated rice culture. (In Dutch.) Landbouw 20: 237-248. Ref. June/July 1948. 22.5 L23

2105 DUSENBERRY, H. L. Montana irrigation needs. Mont. Farmer-Stockman 36(3): 23. Oct. 1, 1948. 6 M764

2106 EGYPT. MINISTRY OF AGRICULTURE. Note on expansion in digging artesian wells for the irrigation of basin lands in Qena Province. Cairo, 1948. 18 p. 55 Eg92

2107 FANTECHI, V. Provision for the Padule di Fucecchio. (In Italian.) Terra [Firenze] 59(33/34): 3. Aug. 22, 1948. 16 T274

Reclamation.

2108 FENOLLERA VELON, J. Legislación de aguas. Congreso Sindical de la Tierra. Estudios y Conclusiones 1948: 63-70. 281.9 C7664

Spain.

2109 GADGIL, D. R. Economic effects of irrigation; report of a survey of the direct and indirect benefits of the Godavari and Pravara canals. Gokhale Inst. Polit. & Econ. P. 17, 183 p. Poona, 1948. 280.9 G56

2110 GARDNER, M. First crops harvested in newly developed Animas Valley district. N. Mex. Stockman 13(9): 128. Sept. 1948. 49 N462

2111 GEMMELL, J. T. Reclamation of river flats subject to flooding. Tasmanian J. Agr. 19: 131-134. Aug. 1948. 23 T182T

2112 GORI, C. Reclamation in reverse: marshes of Fucecchio. (In Italian.) Terra [Firenze] 59(28): 3. July 11, 1948. 16 T274

2113 GREENSHIELDS, E. L. Farmers step up irrigation in last decade. Through Leaves 26, i. e. 36(4): 19-21. July/Aug. 1948. 66.8 T41

2114 HALLIDAY, O. E., and SPURLING, M. B. Notes on sprinkler irrigation of an old citrus block on Murray sand. So. Austral. Dept. Agr. J. 51: 594. July 1948. 23 So84

2115 HIETTER, G. M. Irrigation well. Dakota Farmer 68(17): 14. Sept. 4, 1948. 6 D14

2116 HOVD, A. From Smøla. (In Norwegian.) Norsk Myrselskap. Meddel. 46: 66-71. May 1948. 11 N813

Experiments in marshland culture in Norway.

2117 HSI, C. F., CHENG, P. Y., and TSENG, C. S. Soil problems in the Yellow River flooded areas. (In Chinese.) China. Natl. Geol. Survey. Soils Q. 6: 29-37. June 1947. 56.8 So32

English summary.

2118 INDIA. CENTRAL BOARD OF IRRIGATION. New projects for irrigation and power in India. Ed. 2. India. Cent. Bd. Irrig. Pop. Ser. Leaflet 3, 24 p. 1948. 55.9 In22P

2119 JOHNSTON, C. N. Further data from siphon tests. Agr. Engin. 29: 441. Oct. 1948. 58.8 Ag83

2120 KEMP, H. K., HALLIDAY, O. E., and SPURLING, M. B. Progress report, sprinkler irrigation investigation. So. Austral. Dept. Agr. J. 51: 588-593. (To be cont.) July 1948. 23 So84

2121 KING, J. Green grass plus water equals greenbacks. Southwest. Crop & Stock 2(9): 8. Sept. 1948. 6 So8942

Irrigated permanent pastures.

2122 KREUZ, A. Künstliche beregnung überwindet trockenschäden. Neue Mitt. f. die Landw. 3: 85. Mar. 21, 1948. 18 N39

2123 LESTER, J. Putting Montana's irrigated farms on the level. Mont. Farmer-Stockman 36(3): 10. Oct. 1, 1948. 6 M764

Land leveling for irrigation.

2124 MCALLISTER, L. Drainage and irrigation in the Willamette Valley [Oregon]. Reclam. Era 34: 175-177. Sept. 1948. 156.84 R24

2125 MCDONALD, G. Hawaii needs reclamation to produce own food. Calif. Farm Rptr. 9(9): 4-5. Sept. 1948. 281.8 C12

2126 MACGILLIVRAY, J. H. Onion seed yields increased by adequate supply of irrigation water. Calif. Agr. [Calif. Sta.] 2(9): 11. Sept. 1948. 100 C12Cag

2127 MAJUMDAR, S. C. River problems in Assam. India. Cent. Bd. Irrig. J. 5: 140-151. Apr. 1948. 55.9 In222C

Includes irrigation.

2128 MANN, D. Coming! A new kind of flood control program. Kans. Farmer 85(18): 6, 34, 35. Sept. 18, 1948. 6 K13

2129 MARIMPIETRI, L., and TOMBESI, L. On water nutrition of alfalfa. I. Water availability and unitarian water consumption. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 309-317. 1948. 16 An76

English summary.

2130 MARVIN, V. Electric power as a tool in farm drainage. Agr. Engin. 29: 430. Oct. 1948. 58.8 Ag83



- 2131 MAYER, A. G. Irrigation: a utility load and community builder. *Farm Electrification* 2(5): 28-30. Sept./Oct. 1948. 335.8 F224
- 2132 MILLER, D. G., and MANSON, P. W. Essential characteristics of durable concrete drain tile for acid soils. *Agr. Engin.* 29: 437-441. Oct. 1948. 58.8 Ag83
- 2133 MISRA, R. K. Damodar Catchment: preliminary survey to study water losses by transpiration and evaporation. *India. Cent. Bd. Irrig. J.* 5: 273-287. Ref. July 1948. 55.9 In222C
- 2134 MOREL, C. Technique des irrigations: les différents modes d'arrosage. *Génie Rural* 41: 220-222. July/Aug. 1948. 58.8 Au8
- 2135 MUNNS, E. N. Walcheren, an epic of the soil. *Amer. Forests* 54: 440-443, 472-474. Oct. 1948. 99.8 F762
- 2136 OLIVEIRA, T. Consumption of combustibles in irrigation in rice culture in Rio Grande do Sul. (In Portuguese.) *Lav. Arroz.* 2(17): 25-26. May 1948. 59.8 L39
- 2137 PEIKERT, F. W. Sprinkler irrigation invading new areas and new crops. *Farm Impl. News* 69(20): 50-52. Sept. 23, 1948. 58.8 F22
- Similar title in *Farm Equip. Retailing* 6(4): 88, 94, 96. Oct. 1948. 58.8 F2292
- 2138 PETERSON, D. F., JR., and CRIDDLE, W. D. Consumptive use of water studies in Colorado Basin. *Farm & Home Sci. [Utah Sta.]* 9(3): 6-7, 19. Sept. 1948. 100 UtiF
- 2139 PLACE, A. E. Irrigating the Sahara Desert. *Reclam. Era* 34: 187-188. Oct. 1948. 156.84 R24
- 2140 POLK, H. E. A new look at reclamation. *San Francisco, Irrig. Dist. Assoc. of Calif., Water Econ. Com.*, 1948. 11 p. 54 P75
- 2141 POSPELOV, A. M. Oroshenie sposobom dozhdevanifa [Spray irrigation]. *Moskva, Sel'khozgiz*, 1948. 86 p. 55 P842
- 2142 POTENZA, G. Esperienze di irrigazione nell'azienda sperimentale di Foggia [Irrigation experiments on the experimental farm at Foggia]. *Bari. Staz. Agr. Sper.* P. 274, 32 p. 1947. 105.4 B23P
- 2143 POTENZA, G. Prove di colture irrigue nell'azienda sperimentale di Foggia [Irrigated crop tests at the experimental farm at Foggia]. *Bari. Staz. Agr. Sper.* P. 276, 36 p. 1947. 105.4 B23P
- 2144 POWERS, W. L. Many factors set water need. *Oreg. Farmer* 71: 694. Sept. 16, 1948. 6 Or32
- Irrigation water.
- 2145 PURSER, R. Western water problems. *Family Herald & Weekly Star* 79(34): 7. Aug. 25, 1948. 7 F21
- Irrigation development in Canada.
- 2146 RAMDAS, L. A. Soil moisture and evaporation investigations. *India. Cent. Bd. Irrig. J.* 5: 262-272. Ref. July 1948. 55.9 In222C
- 2147 REBOUR, H. Les différents systèmes d'irrigation. *Fruits et Primeurs de l'Afrique du Nord, Éd. Maroc.* 18: 261-264. Sept. 1948. 80 F9482
- 2148 REBOUR, H. Les facteurs de base pour l'établissement d'un plan d'irrigation. *Fruits et Primeurs de l'Afrique du Nord, Éd. Maroc.* 18: 236-238. July/Aug. 1948. 80 P9482
- 2149 RENAUD, M. Le controle de l'irrigation dans les cultures fruitières. *Colon. Franç. de Tunisie* 58 (2060): 1-2. Aug. 14, 1948. 24 C712
- Also in *Fruits et Primeurs de l'Afrique du Nord, Éd. Maroc.* 194: 265-266. Sept. 1948. 80 F9482
- 2150 SAIN, R. B. K. Investigation of small storage schemes. *India. Cent. Bd. Irrig. J.* 5: 172-175. Apr. 1948. 55.9 In222C
- 2151 SANSON, R. D. DE. Agricultural engineering. (In Portuguese.) *Lavoura* 52: 14-23. May/June 1948. 9.2 L39
- Irrigation.
- 2152 SECRET, F. A. The advantages of irrigation. *Grower* 30: 451-453. (Cont.) Sept. 18, 1948. 286.83 M34
- 2153 SEIBERT, J. E. Crops with "wet feed" can't make good yields. *Ohio Farmer* 202(5): 26, 35. Sept. 4, 1948. 6 Oh3
- Drainage.
- 2154 SHIEH, T. P. One year of water conservancy. (In Chinese.) *Monthly Farmers' Bank China* 9(4): 26-30. Apr. 1948. 281.9 F225M
- English summary.
- 2155 SINGH, S. M. Utilization of water resources in Assam. *India. Cent. Bd. Irrig. J.* 5: 169-171, 175. Apr. 1948. 55.9 In222C
- 2156 STEELE, T. L. Shotcrete canal linings. *Reclam. Era* 34: 189, 198. Oct. 1948. 156.84 R24
- 2157 STOUT, W. W. Engineering aids acceptance of sprinkler system. *Southwest. Crop & Stock* 2(9): 12. Sept. 1948. 6 So8942
- 2158 THOMAS, A. R. The contour waste weir: an economical alignment with earthen dams. *India. Cent. Bd. Irrig. J.* 5: 176-177, 180. Apr. 1948. 55.9 In222C
- 2159 THOMAS, W. P., and others. New water for Utah lands; agricultural expansion in State dependent on additional water for irrigated lands. *Farm & Home Sci. [Utah Sta.]* 9(3): 1, 14-18. Sept. 1948. 100 UtiF
- G. T. Blanch, O. W. Israelsen, D. F. Peterson, and D. S. Jennings, joint authors.
- 2160 THOMPSON, C. K. Hill drainage. *Brit. Grassland Soc. J.* 3: 193-201. Ref. Sept. 1948. 60.19 B773
- 2161 TROW-SMITH, R. From marsh—to pasture. *Farmer & Stock-Breeder* 62: 2134. Sept. 14, 1948. 10 F228
- 2162 TSAREVSKIY, A. M., and SHAUMIAN, V. A., eds. Sposoby oroshenifa i tekhnika poliva sel'skokhozhfaistvennykh kul'tur [Irrigation methods and watering technique for agricultural crops]. *Moskva, Sel'khozgiz*, 1948. 86 p. 55 T782
- 2163 U. S. BUR. OF RECLAMATION. The Columbia River; a comprehensive report on the development of the water resources of the Columbia River Basin for irrigation, power production, and other beneficial uses in Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming. *Washington?* 1947. 399 p. 156.85 C73
- 2164 U. S. ENGINEER SCHOOL. LIBRARY. American literature on dams; a bibliography. *Fort Belvoir, Va.*, 1948. 182 p. 241.4 Un35A
- 2165 VALENTIN, J. "Chaintres" du brocage vendéen. *Potasse* 22: 130. July/Aug. 1948. 57.8 P84
- 2166 VALENTINE, G. E. Rain on tap; sprinkler systems are now replacing furrow irrigation in B. C. *Family Herald & Weekly Star* 79(33): 3. Aug. 18, 1948. 7 F21
- 2167 VENINO, P. Flooding of meadows in practice. (In Italian.) *Humus* 4(8): 9-14. Aug. 1948. 16 H88
- 2168 WELLINGTON, J. Let us irrigate the Kalahari. *Veld Trust News* 4(12): 24-26. Sept. 1948. 56.8 V54
- 2169 WOOD, I. D. Fifty years of irrigation. *West. Farm Life* 50(17): 5, 29, 30. Sept. 1, 1948. 6 R153
- 2170 WOOD, J. H., and SLAUGH, F. Fall irrigation of beet land as preparation for sugar beets. *U & I Cult.* 8(2): 11, 14, 19. Sept. 1948. 66.8 V12
- 2171 WRIGHT, W. Q. Effects of Reber Plan on Delta. *Calif. Farmer, North. Ed.* 189: 165. Aug. 28, 1948. 6 C126
- Provisions of the plan include water conservation and storage.
- 2172 YEAMAN, A. F. Flooded farms [in Scotland] must be restored; delay dangers in the Border area. *Farming News & North Brit. Agr.* 100(36): 3. Aug. 27, 1948. 10 N82
- 2173 YOHE, R. S. Pastures dry up in summer? This may be answer. *Prairie Farmer, Gen. Ed.* 120(20): 5. Sept. 25, 1948. 6 P883
- Irrigation.
- 2174 ZANNONI, I. The small irrigation works at Alessandrino. (In Italian.) *Humus* 4(2): 22-24. Feb. 1948. 16 H88

#### Erosion and Erosion Control

- 2175 ALLEN, L. C. Plan now to prevent soil blowing later. *Prog. Farmer, Tex. Ed.* 63(10): 130, 131. Oct. 1948. 6 T311
- Cover crops.
- 2176 BALOG, D. Z. Stabilizing the Kaleva [Michigan] "Sahara." *Soil Conserv.* 14: 54-55, 67. Oct. 1948. 1.6 So3S
- Wind erosion control by planting.
- 2177 BARKER, J. R. Callao shows the way to greater water conservation. *Utah Farmer* 68(3): 14. Sept. 10, 1948. 6 D45
- 2178 BOAN, J. Farming with a raindrop corral. *Nebr. Farmer* 90(17): 1, 7, 40. Sept. 4, 1948. 6 N27
- Soil conservation.



- 2179 BURNS, R. V. Soil erosion in Ceylon with particular reference to floods. *Trop. Agr. [Ceylon]* 103: 240-245. Oct./Dec. 1947. 26 T751
- 2180 CLARK, M., and DAIL, H. M. A dollar's worth of soil-saving for a dollar. *Successful Farming* 46(10): 57-59. Oct. 1948. 6 Su12  
Contract work by the Missouri Association of Terracing and Conservation Contractors.
- 2181 COMBS, L. R. Soil conservation raises Midwest crop potentials. *Better Crops with Plant Food* 32(7): 25-30, 43-46. Aug./Sept. 1948. 6 B46
- 2182 CUNNINGHAM, G. Here's how the soil surgeons will bring new life to a farm. *Iowa Farm & Home Register* 1948: 3-H-4-H. Sept. 5, 1948. 6 Io94  
All-Iowa Soil Conservation Field Day.
- 2183 CUNNINGHAM, G. Why the face-lifting? An explanation. *Iowa Farm & Home Register* 1948: 8-H, 12-H. Oct. 1948. 6 Io94  
Soil conservation in Iowa.
- 2184 DU TOIT, R. The bridge weir in the Tarka Conservation area. *Farming So. Africa* 23: 495-497. July 1948. 24 So842  
Built to conserve the soil.
- 2185 EMERSON, A. W. What is water erosion? *Impl. & Tractor* 63(20): 38-39, 76, 84. Oct. 2, 1948. 58.8 W41
- 2186 ENGEL, L. Man versus nature. *Nation* 167: 363-365. Oct. 2, 1948. 280.8 N215  
Need for conservation of soil and other resources.
- 2187 FOSTER, Z. C. The farmer and the 1948 agricultural conservation program. *Hawaii. U. Agr. Ext. C.* 252, 3 p. Aug. 1948. 275.29 H412Ac
- 2188 FOX, F. W. Worlds' glut of babies becomes more serious every year and is only matched by worsening food shortages. *Veld Trust News* 4(12): 18-21. Sept. 1948. 56.8 V54  
Soil erosion.
- 2189 FURON, R. Les problèmes de l'érosion du sol. *Rev. Internat. de Bot. Appl. et d'Agr. Trop.* 28: 281-296. July/Aug. 1948. 26 R323
- 2190 FUSSLEIN, E. R. Grass and trees bind moving dunes; driftsand reclamation in Zululand. *Farmer's Weekly [Bloemfontein]* 75: 52-53, 55, 57. Sept. 8, 1948. 24 F225
- 2191 GARDNER, W. H. Determination of the critical stream for various slopes. *Soil Sci.* 66: 205-215. Sept. 1948. 56.8 So3
- 2192 GIBBS, J. A. Growth of tree plantings for erosion control in the southeastern region. *Iowa State Col. J. Sci.* 22: 371-386. July 1948. 470 Io9
- 2193 GUTIERREZ DIAZ, A. La erosión a través de la filosofía clásica. *Café de El Salvador* 18: 555-567. July 1948. 68.28 C112
- 2194 HAAN, J. H. DE. Soil conservation. *Econ. Rev. Indonesia* 2: 97-100. July 1948. 280.8 Ec725
- 2195 HAY, R. C. Take better care of soils. *Ill. Dept. Agr. Ann. Rpt.* 30: 51-64. 1947. 2 IL6R
- 2196 HERBORN, A. W. Soil erosion. *Wilcox Mofflin Q.* 3(2): 6-7, 9-10. July 1948. 23 W64  
In Australia.
- 2197 ILLINOIS. AGRICULTURAL EXPERIMENT STATION. Summary of contour farming study, by C. A. Van Doren, E. H. Kidder, and R. S. Stauffer. *Urbana?* 1948. 2 p. 56.7 Il63
- 2198 JONES, L. A. Education in soil and water conservation. *Agr. Inst. Rev.* 3: 357-359, 361, 363, 365, 367, 372. Sept. 1948. 7 Ag8
- 2199 KOCH, D. E. V. Soil structure in relation to soil erosion. *Trop. Agr. [Ceylon]* 103: 230-233. Oct./Dec. 1947. 26 T751
- 2200 LEWIS, J. C. Dust bowl in the making. *Calif. Farm Rptr.* 9(9): 1-2. Sept. 1948. 281.8 C12
- 2201 LIND, R. C., and HARPER, H. B. Save your soil. *Kans. State Col. Agr. Ext. C.* 204, 8 p. June 1948. 275.29 K13Ex
- 2202 LIVERA, E. J. Agriculture and erosion in Ceylon. *Trop. Agr. [Ceylon]* 103: 234-239. Oct./Dec. 1947. 26 T751
- 2203 MARQUES, J. Q. A. Soil conservation in the coffee plantation. (In Portuguese.) *São Paulo. Supt. dos Serv. do Café. B.* 23(251): 14-20. (Cont.) Jan. 1948. 68.29 Sa63
- 2204 MOURA, L. R. DE, and NETO, J. A. Suggestions for the creation of the Soil Conservation Service [Brazil]. (In Portuguese.) *Colheitas e Mercados* 4(3/6): 25-29. Mar./June 1948. 255.3 Sa652
- 2205 ORR, SIR J. B. Disease, social unrest and war will result from increasing population and declining soil. *Veld Trust News* 4(10): 10-11. July 1948. 56.8 V54
- 2206 PECK, R. B. Soil conservation service shows results in range restoration on [Texas] Panhandle "dust bowl" pastures. *N. Mex. Stockman* 13(9): 82 F-83. Sept. 1948. 49 N462
- 2207 REBORA, B. Modern experimentation in the problem of wind erosion. (In Italian.) *Humus* 4(2): 10-12. Feb. 1948. 16 H88
- 2208 REID, L. An 8-State soil inspection tour. *Banking* 41(4): 62, 64. Oct. 1948. 284.8 Am3
- 2209 RENSHAW, B. Michigan farm is "face lifted" as 13,000 look on. *Prairie Farmer, Gen. Ed.* 120(21): 46-47. Oct. 9, 1948. 6 P883  
Soil conservation demonstration.
- 2210 ROBINSON, J. L. Co-ops join in one-day farm conversion. *News Farmer Coops.* 15(7): 8-9, 20. Oct. 1948. 166.2 N47  
Soil Conservation Field Day, Frederick, Md.
- 2211 ROESSEL, B. Explanation of a hydrological paradox. (In Dutch.) *Nederland. Boschbouw-Tijdschr.* 20: 230-240. Aug. 1948. 99.8 N28  
Drainage.
- 2212 ROWE, R. 20,000 see farm fitted. *West. Farm Life* 50(19): 4-5, 14. Oct. 1, 1948. 6 R153  
A farm near Denver fitted for modern conservation farming in a day.
- 2213 SALE, G. N. Note on sand dune fixation in Palestine. *Empire Forestry Rev.* 27: 60-61. July 1948. 99.8 Em72
- 2214 SCOTT, J. C. Huge soil-saving demonstration planned; re-run against soil enemies on 160 acres near Oklahoma City, October 7. *Okla. Agr.* 8(9): 1, 4. Sept. 1948. 6 Ok48
- 2215 SIELING, D. H. Conservation and America's future. *New England Homestead* 121(17): 44-45. Sept. 11, 1948. 6 N442
- 2216 STEPHENSON, R. E. Erosion in orchard can be checked by good cover crop. *Better Fruit* 43(4): 11-12, 21-22. Oct. 1948. 80 B46
- 2217 TAME, W. J. Soil conservation competition in the Goulburn Catchment, 1948. *Victoria. Dept. Agr. J.* 355-362, 367. Aug. 1948. 23 V66J
- 2218 TINDALL, C. Soil saving days. *Mo. Ruralist* 89(16): 3, 19. Aug. 28, 1948. 6 R8891
- 2219 TISSOT, I. La lutte contre l'érosion. *Colon Franç. de Tunisie (ser. 7)* 58(2058): 1-2. July 31, 1948. 24 C712
- 2220 TRENK, F. B. Influence of planted tree belt in Plainfield sand on erosion control and moisture conservation. *Iowa State Col. J. Sci.* 22: 449-461. July 1948. 470 Io9
- 2221 U. S. EXTENSION SERV. Report of the Extension Soil Conservationists Conference, Northern Great Plains States, March 16-18, 1948, Lincoln, Nebraska. Washington? 1948. 7 p. 1.913 C38o3
- 2222 U. S. SOIL CONSERVATION SERV. Teachers' guide to be used with the school films [on] topsoil, water, erosion, and soil and water conservation. Washington, 1948. 32 p. 1.96 R27T3
- 2223 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Guide for farm planning soil conservation surveys in Nevada, May 1948. n. p., 1948. 16 p. 1.9609 G94
- 2224 U. S. SOIL CONSERVATION SERV. VISUAL INFORMATION SECT. "Let's make a movie." Washington, 1948. 10 p. 1.96 R27L
- 2225 WALLACE, G. F. Arkansas beef-peach farmer points to soil conservation as key to future success. *Livestock Weekly* 2(46, sect. 2): 1, 10, 11. Sept. 23, 1948. 49 L753

#### Sanitation

- 2226 CARTER, W. Soil fumigation. *Agr. Engin.* 29: 434. Oct. 1948. 58.8 Ag83
- 2227 DALTON, F. H., and HURWITZ, C. Effect of volatile disinfectants on survival of microflora in soil. *Soil Sci.* 66: 233-238. Ref. Sept. 1948. 56.8 So3
- 2228 FAVARD, P. Lutte contre les animaux souterrains nuisibles. *Prog. Agr. et Vitic.* 1948: 136-140. Sept. 5/12, 1948. 14 P94
- 2229 HAWKS, S. N., JR. Prepare now for permanent tobacco planted—and no weeds! *Prog. Farmer, Car.-Va. Ed.* 63(10): 19. Oct. 1948. 6 P945  
Soil sterilization.



2230 OWEN, R. R. Equipment for applying soil fumigants. *Agr. Engin.* 29: 435-436. Oct. 1948. 58.8 Ag83

2231 POCHON, J., and LAJUDIE. Action de certaines substances nématocides et insecticides sur la microflore normale du sol. *Ann. Agron.* 18: 449-451 July/Aug. 1948. 14 An75A

2232 RILEY, G. E. For healthy house plants, sterilize your soil. *Amer. Home* 40(6): 90-93. Nov. 1948. 80 Am313

2233 ROBINSON, C. Good-bye, Mr. Nematode—soil fumigation controls root sapping parasites. *Utah. Farmer* 68(4): 3, 27. Sept. 25, 1948. 6 D45

#### MATERIALS FOR SOIL IMPROVEMENT

2234 AZUMA, H. Marine products and manure. *Japan Fert. Weekly* 51: 56: 2-3. Mar. 10, 1948. 57.8 F417

2235 HOPKINS, D. P. Granulated fertilisers. *Farming [Norwich]* 2: 237-241. Aug. 1948. 10 F2236

2236 LIN, C. C. A preliminary study on the utilization of bone meal. n. p., 1947? p. 33-38. 57.25 L63

2237 LYALL, H. G. Burnt soil: a cheap fertiliser? *Nurseryman & Seedsman* 107: 794-795. Sept. 16, 1948. 80 N933

With comments by H. W. Gardner.

2238 MORIYAMA, S. A pebble-form peat fertilizer and its manurial effect. *Japan Fert. Weekly* 64: 2-3. June 30, 1948. 57.8 F417

2239 PEROTTI, R. Biochemical fertilization of the soil with blast furnace scoria and screenings from lignite gasogenes. (In Italian.) *Pisa. U. Osserv. Region. di Fitopat. [Mem.]* 223: 130-155. 1947. 464.9 P67

2240 SWANSON, C. L. W. The use of composts, night soil and unusual fertilizers in the soil fertility program of Japan. (Abs.) *Amer. Fert.* 109(4): 24. Aug. 21, 1948. 57.8 Am3

2241 VAZQUEZ, E. A. Utilización de la lignina como fertilizante. *Asoc. de Téc. Azucareros de Cuba. B. Ofic.* 7: 199-203. Sept. 1948. 65.9 As5B

#### Primary Materials

2242 BARKLEY, S. G. The production of nitrogen fertilizers in Canada. *Fert. Rev.* 23(5): 3-6, 14. Sept./Oct. 1948. 47.8 F414

2243 BERNARD, P. La conquête de l'azote. *Monit. Agr.* 1(33): 2. Aug. 29, 1948. 14 M744

2244 BIRCH, H. F. Soil phosphates—a review of the literature. *East African Agr. J.* 14: 29-33. Ref. July 1948. 24 Ea74

2245 CATANI, R. A. Solubility of certain types of phosphates in 2% citric acid. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 207-218. July/Aug. 1948. 9.2 R324

2246 COMMERCIAL SOLVENTS CORPORATION.  $\text{NH}_3$ ; CSC ammonia: its uses and properties. New York, 1947? 48 p. 309 C73

Includes its use as fertilizer and in feedstuffs.

2247 CRUZ RIASCOS, L. C. El salitre de Chile, en Colombia. *Agr. Trop.* 4(6): 19-29. June 1948. 26 Ag8

2248 FUJIWARA, A. Aging of scarcely-soluble phosphates by long period storage & its influence on manurial effect. *Japan Fert. Weekly* 56: 3. Mar. 10, 1948. 57.8 F417

2249 GARCIA GUIJARRO, L. El problema de los fertilizantes nitrogenados en los momentos presentes. *Agr. Levantino* 14(163): 5-6, (164): 7-8. June-July 1948. 15 Ag85

2250 KING, A. S. Pressure tank fertilization is in offing. *Oreg. Farmer* 71: 640. Sept. 2, 1948. 6 Or32

Anhydrous ammonia.

2251 LEJEUNE, G. Une méthode rapide de dosage du potassium dans les engrais. *Paris. Acad. des Sci. Compt. Rend.* 227: 434-435. Aug. 18, 1948. 505 P21

2252 MAHNER, A. Lebenselement stickstoff. *Kurzbriefe f. Ernähr. u. Landw.* 7, A II 6, 6 p. July 1948. 281.8 K96

2253 MORGAN, L., and MAYEUX, M. A new fertilizer for Louisiana farmers. *La. Agr. Col. Ext. Leaflet* 19, 4 p. Mar. 1948. 275.29 L93EL

Anhydrous ammonia.

2254 POULSEN, J. F. Studies on fertilizer value of various phosphates. II. On fertilizer value of some phosphates of aluminium and iron. (In Danish.) *Denmark. Statens Forsøgsvirks. i Plantekultur, Beret.* 411: 617-639. 1948. 11 D412

2255 RAVET, A. L'utilisation des engrais chimiques en agriculture indigène. *Com. Coton. Congol. B.* 8: 36-37. July 1948. 72.9 C732

2256 ROCASOLANO, C. El color de los abonos nitrogenados y potásicos. *Cult. Mod.* 31: 250-251. July 1948. 15 C89

2257 SADLER, G. E., and KLAYMAN, M. I. B. L. S. [Bureau of Labor Statistics] proves mechanization pays. *Com. Fert. Ybk.* 77(3-A): 19-23, 25. Sept. 1948. 57.8 C73Y

In the fertilizer industry.

2258 SCHMIDTMANN, F. Mehr salpeterdünger. *Neue Mitt. f. die Landw.* 3: 198. July 5, 1948. 18 N39

2259 TSUDA, N. U. S. urea manufacturing technique petitioned to be introduced. *Japan Fert. Weekly* 56: 1, 3. Mar. 10, 1948. 57.8 F417

#### Secondary and Minor Element Materials

2260 BAEYENS, J. Physiological effect of minor elements in Chilean nitrate. *Plant and Soil* 1: 135-144. Aug. 1948. 450 P696

2261 COOMBS, E. Does your soil need trace elements? *Better Farms* 8(6): 3. Aug. 15, 1948. 6 B462

2262 ROBINSON, W. O. The presence and determination of molybdenum and rare earths in phosphate rock. *Soil Sci.* 66: 317-322. Ref. Oct. 1948. 56.8 So3

2263 SERVISS, G. Some practical considerations in the addition of micronutrients to fertilizers. (Abs.) *Amer. Fert.* 109(4): 10, 22. Aug. 21, 1948. 57.8 Am3

#### Mixed Fertilizers and Fertilizer Technology

2264 HUDSON, E. P. New fertiliser technology. *Chem. Age* 59: 521. Oct. 16, 1948. 382 C427

2265 MARTIN, P. C., HARDESTY, J. O., and MITCHELL, J. W. Stability of 2, 4-D in mixed fertilizers. (Abs.) *Amer. Fert.* 109(4): 9. Aug. 21, 1948. 57.8 Am3

#### Fertilizer Statistics

2266 ARNIM, G. W. VON. Kauft der Bauer düngemittel? *Wirtsch. Ztg.* 3(33): 9. Aug. 13, 1948. 280.8 W742

Germany.

2267 BERNARD, P. Faut d'engrais! Pas de fausses économies dans l'emploi des engrais phosphatés. *Monit. Agr.* 1(24): 2. June 27, 1948. 14 M744

France.

2268 BERNARD, P. Les lois économiques en agriculture: faut d'engrais! Oui, mais... *Monit. Agr.* 1(32): 2. Aug. 22, 1948. 14 M744

France.

2269 BODÉ, L. Obtention, valeur et situation des fumiers artificiels. *Casablanca. Chambre d'Agr. B.* 19 (207): 15, 17, 19. July 1948. 24 C26

2270 CHANG, N. F. Fertilizer distribution and manufacture. *China. Min. Agr. and Forestry. Misc. P.* 1: 20. Apr. 1948. 22.5 C4412M

2271 CHAPMAN, C. J. Order your fertilizer now, urges Wisconsin soils expert. *Farmers Union Herald* 22 (17): 3. Sept. 3, 1948. 280.28 F224

2272 DOETSCH, J. F. Chilean nitrate supplies for 1948-49 crops. *Victory Farm Forum* 1948(32): 2. Sept. 1948. 281.8 F226

2273 GREW, R. Food grain production in India affected by lack of fertilizer. *Foreign Trade* 4: 514-515. Sept. 11, 1948. 286.8 C162

2274 JACOB, K. D., and CUMMINGS, R. W. Fertilizer progress in Bizonal Germany. (Abs.) *Amer. Fert.* 109(4): 24, 26. Aug. 21, 1948. 57.8 Am3

2275 MARTÍN, G. La necesidad de fertilizantes para Europa. *Agricultura [Madrid]* 17: 373. Aug. 1948. 15 Ag84

2276 MAURY, L. Le problème mondial des engrais; le rôle de la France. *Monit. Agr.* 1(33): 2. Aug. 29, 1948. 14 M744

2277 MENDES-FRANCE, P. Notre approvisionnement en engrais [France]. *Monit. Agr.* 1(24): 2; (25): 2. June 27-July 4, 1948. 14 M744

2278 ØDELIEN, M. The international fertilizer situation. Production and requirements. (In Norwegian.) *Norsk Landbr.* 14: 87. Mar. 5, 1948. 11 N8122

2279 PENNSYLVANIA. DEPT. OF AGRICULTURE. Fertilizer report for the year, 1947. *Pa. Dept. Agr. B.* 31(2), 13 p. Mar./Apr. 1948. 2 P38W

2280 SCHWAB. Die neue regelung des handelsdüngerbezugs für landwirtschaft, erwerbsgartenbau und die kleingärtner in Württemberg-Baden. *Württemb. Wchnbl. f. Landw.* 115: 200-201. July 31, 1948. 18 W96



- 2281 SNIDER, H. J. Midwest shows big gains in fertilizer use. *Com. Fert.* 77(3): 40. Sept. 1948. 57.8 C73
- 2282 VOSKUIL, W. H., and KING, E. M. Agstone used in Illinois in 1947. *Ill. Geol. Survey. C.* 146, 10 p. 1948. 406 IL6C
- 2283 WATTE, R. A. Order your Eastern States fertilizer early this season. *East. States Coop.* 24(10): 7. Oct. 1948. 280.28 Ea7

#### Mineral Soil Amendments

- 2284 ROWAAN, P. A., and KLEERMAEKER, K. J. B. VAN. Lime and magnesium lime fertilizers. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandbl. 5: 349-355. Aug. 1948. 12 N383M

#### Manures and Composts

- 2285 ABRAMS, E. H. Quick return method succeeds. *Organic Gard.* 13(5): 25. Nov. 1948. 56.8 Or3 Compost.
- 2286 BLIN, H. Le mouton au service du blé. Mouton 2: 100-101. Oct. 10, 1947. 45.8 M86 Effect of sheep manure on grain yields.
- 2287 BYERS, C. A. A compost farmer. *Organic Gard.* 13(5): 31. Nov. 1948. 56.8 Or3
- 2288 CARVAJANILLO J., L. J. Adecuado aprovechamiento del estiércol como abono. *Campo [La Paz]* 2(14): 55-60. June 1948. 9.1 C15
- 2289 COPLEY, G. H. To dig, or not to dig. *Natl. Allot. & Gard. J.* 77: 11. Sept. 1948. 80 N217 Composts.
- 2290 DE LA MOTHE, G. A., and SHRAGER, J. "Nature's own fertilizer," made from waste materials. *Gard. Chron. Amer.* 52: 273-274. Oct. 1948. 80 G1632
- 2291 DOMSCH, M. Wirtschaftseigener dünger. *Deut. Bauerntech.* 2(5/6): 21-24. May/June 1948. 58.8 D48
- 2292 HYLTON, W. G. Compost for trees and herbs. *Organic Gard.* 13(5): 35. Nov. 1948. 56.8 Or3
- 2293 IVERSEN, K., and DORPH-PETERSEN, K. Experiments with storage and utilization of manure. (In Danish.) Denmark. Statens Forsøgsvirksomhed i Planteavl, Beret. 412: 69-110. 1948. 11 D412 Also in *Tidsskr. for Planteavl* 52(1): 69-110. 1948. 11 T439
- 2294 KING, J. H. Composting. *North. Gard.* 2: 485-486. Aug. 1948. 80 N816
- 2295 KNICKMANN, E. Versuche über die landwirtschaftliche und forstliche Verwertbarkeit einiger industrieller Abfallstoffe. *Beitr. z. Agrarwiss.* 2: 20-34. Ref. 1948. 18 B392
- 2296 LEGHIS, L. M. Le fumier. *Paysan Franç.* 24(368): 14-15. Aug. 1948. 14 P29
- 2297 LLOSA BELAUNDE, C. La producción del guano de las islas y sus relaciones biológicas. *Co. Admin. del Guano, Peru. B.* 23: 191-198. Dec. 1947. 57.9 C73B
- 2298 LUNT, H. A. That's your money going up in smoke. *Better Homes & Gard.* 27(2): 288-289. Oct. 1948. 80 F9424 Composting of leaves instead of burning.
- 2299 RAND, R. W. Wild-life utilization in agriculture. *Farming So. Africa* 23: 365-370. June 1948. 24 So842
- Guano industry.
- 2300 ROSSI, G. A. Good conservation of manure, an ever-present subject. (In Italian.) *Terra e Sole* 69/70: 680. Sept. 1948. 16 T273
- 2301 SCHONOPP, G. Landwirtschaftliche Abwasser-Verwertung - betriebswirtschaftlich begründet; ein Weg zur reibungslosen und nutzbringenden Landbehandlung der Abwässer. *Landtechnik* 2(20): 3-5. Oct. 31, 1947. 58.8 L235
- 2302 SIEBERT, K. Dungpflege und anwendung. *Neue Mitt. f. die Landw.* 3: 83-84. Mar. 21, 1948. 18 N39
- 2303 SLIPHER, J. A. Manure: its management in barn and field. *Ohio. Agr. Col. Ext. B.* 262, 32 p. Jan. 1947. 275.29 Oh32
- 2304 TSCHERNIAK, A. Stickstoffverluste beim trocknen von geflügelxkrementen. *Landw. Jahrb. der Schweiz* 62: 547-554. 1948. 17 L23 French summary.
- 2305 VERONA, O., and FANTACCI, L. Considerations and proposals for the agricultural utilization of the sewage from the city of Siena. (In Italian.) *Pisa. U. Osserv. Region. di Fitopat. [Mem.]* 219, 35 p. Ref. 1947. 464.9 P67

- 2306 VERONA, O. For better agricultural utilization of city refuse. (In Italian.) *Pisa. U. Osserv. Region. di Fitopat. [Mem.]* 218, 20 p. 1947. 464.9 P67
- 2307 WALKER, H. R. Let's rake leaves. *Amer. Home* 40(6): 96. Nov. 1948. 80 Am313 For compost.

#### FORESTRY

#### FOREST ECONOMICS AND POLICY

- 2308 ACOSTA SOLIS, M. For the protection of the Ecuadorian nature, general information and bibliography. (Abs.) n. p., 1948. 2 p. 279 Ac7 Chiefly reforestation.
- 2309 ACOSTA SOLIS, M. Suggestions for the protection and development of the forests of Ecuador. (Abs.) *Ann Arbor*, 1948. 2 p. 99.65 Ac7
- 2310 ANTOINE, S. Une baisse sur le bois est-elle possible? *Il. Bois et Scieries* 54: 631-632. Sept. 2, 1948. 99.81 B632
- 2311 ANTOINE, S. En passant par la hausse. *Bois et Scieries* 54: 583-584. (Concl.) Aug. 5, 1948.
- 2312 APPELROTH, E. Currents in Finnish forestry. (In Finnish.) *Skogbrukeren* 23: 165-168. Aug. 1, 1948. 99.8 Sk54
- 2313 BEVERSLUIS, J. R. The land value in forestry. (In Dutch.) *Nederland. Boschbouw-Tijdschr.* 20: 256-259. Sept. 1948. 99.8 N28
- 2314 BOOTH, H. A. The financial aspects of private forestry. *Q. J. Forestry* 42: 136-142. July 1948. 99.8 Q2
- 2315 BRINAR, M. Problems and prospects for the development of forestry in Yugoslavia. (In Russian.) *Interagra* 2: 134-137. 1948. 28 In825
- 2316 CERMAK, F. Contribution à la solution du problème de l'exploitation forestière en Afrique. *Bois et Scieries* 54: 637-639. (To be cont.) Sept. 2, 1948. 99.81 B632
- 2317 CHAMPION, H. G. Denmark. *Empire Forestry Rev.* 27: 44-47. July 1948. 99.8 Em72
- 2318 CHAUDE, P. Aux écoutes du marché du bois: une situation d'attente. *Bois et Scieries* 54: 586-587. Aug. 5, 1948. 99.81 B632
- 2319 COULON, J. P. La politique forestière du gouvernement britannique et le problème du reboisement en Grande-Bretagne. *Rev. des Eaux et Forêts* 87: 292-308. Aug. 1948. 99.8 R322
- 2320 DECENCIERE-FERRANDIERE, H. Les ventes de coupes de bois de l'exercice 1947 dans les forêts soumises au régime forestier. *Rev. des Eaux et Forêts* 87: 201-222. July 1948. 99.8 R322 France.
- 2321 DEMMON, E. L. Minnesota forestry situation. *Lake States Timber Digest* 2(23): 3-4; (24): 4. Aug. 26-Sept. 9, 1948. 99.81 L14
- 2322 DIETERICH, V. Forstpolitische gegenwartsfragen. *Holz-Zentbl.* 74: 395, 397, 399, 401-403. Sept. 28-Oct. 1, 1948. 99.81 H742
- 2323 DUERR, W. A. The small, low-income landholding: a problem in forest conservation. *Iowa State Col. J. Sci.* 22: 349-361. July 1948. 470 Io9
- 2324 ENEV, I. L'économie forestière en république populaire Tchecoslovaque. (In Bulgarian.) *Gorsko Stopanstvo* 4(6/7): 213-226. June/July 1948. 99.8 G682 French summary.
- 2325 EXPLOITATION of forest resources. *Unasylva* 2: 112-117. May/June 1948. 99.8 Un1 Latin America.
- 2326 FILENI, E. Working for the forests. (In Italian.) *Mezzogiorno Agr.* 4(32): 1-2. Aug. 8, 1948. 16 M57
- 2327 FORESTRY plan of Uruguay. *Unasylva* 2: 132-135. May/June 1948. 99.8 Un1
- 2328 GAULT, Les coopératives forestières. *Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr.* (1947) 29: 291-293. 1948. 280.29 C761929
- 2329 GHOSH, R. C. Forest policy for Bengal. *Indian J. Econ.* 28: 509-532. Apr. 1948. 280.8 In22
- 2330 KRAHL-URBAN. Massen- oder wertholzerzeugung? *Forst u. Holz* 3: 137-139. Aug. 1, 1948. 99.8 F7724
- 2331 LAMB, F. B. Status of forestry in Tropical America. *J. Forestry* 46: 721-726. Oct. 1948. 99.8 F768



2332 LA PANOUSE. Historique de la Federation de février 1945 à mai 1947. Fed. Natl. des Synd. de Propriétaires Forest. Sylvic. B. Off. 1947(10): 2. June/July 1947. 99.9 F315

Fédération Nationale des Syndicats de Propriétaires Forestiers Sylviculteurs.

2333 LA PANOUSE. Perspectives sur le marché du bois. Féd. Natl. des Synd. de Propriétaires Forest Sylvic. B. Off. 17: 1-2. Sept./Oct. 1948. 99.9 F315

2334 LATIN-AMERICAN forest development. Unasylya 2: 98-101. May/June 1948. 99.8 Un1

2335 LAUTENSCHLAGER, W. Währungsumstellung und kaufpreisverbindlichkeiten aus holzlieferungen der bayerischen staatsforstverwaltung. Holz-Zentbl. 74: 393-394. Sept. 28, 1948. 99.81 H742

2336 LÜHDORF, A. Reise-eindrücke mit holzpreisbeobachtung. Holz-Zentbl. 74: 379. Sept. 21, 1948. 99.81 H742

2337 MORTON, P. How to read a forest. Forest & Outdoors 44(10): 6-7. Oct. 1948. 99.8 C16

2338 PFALZGRAF. Forstwirtschaft contra holzwirtschaft? Forstw., Holzw. 1: 97-100. July 1, 1947. 99.8 F7793

Germany.

2339 QUIVEY, O. K. Railroads have a stake in forestry. Amer. Forests 54: 446-447, 468. Oct. 1948. 99.8 F762

2340 RÄSÄNEN, K. A. Marketing organizations of forest owners in Finland. (In Swedish.) Skogen 35: 193. Sept. 1, 1948. 99.8 Sk51

2341 RESULTS of the Conference: foundations for a common Latin-American forest policy. Unasylya 2: 102-104. May/June 1948. 99.8 Un1

Latin-American Conference on forestry and forest products.

2342 ROTTIN, B. Il faudrait vouloir "faire face" si, dans le monde du bois, sévissait une crise nouvelle. Bois et Scieries 54: 584-586. Aug. 5, 1948. 99.81 B632

2343 STEBBING, E. P. Afforestation for Bengal. Nature [London] 162: 424-425. Sept. 11, 1948. 472 N21

2344 STEVENS, J. One man's house. South. Lumberman 177(2221): 64. Oct. 15, 1948. 99.81 So82

Reforestation.

2345 STOREY, T. A. T. D. A. [Timber Development Association] survey. Wood [London] 13: 251-252. Sept. 1948. 99.82 W855

2346 TAYLOR, M. N. Future pulpwood for Wisconsin mills. Paper Trade J. 127(16): 20, 22. Oct. 14, 1948. 302.8 P196

2347 THEURER, P. Nochmals: preisdiziplin halten! Holz-Zentbl. 74: 403. Oct. 1, 1948. 99.81 H742

2348 TROMP, P. H. M. Estimating profits on larch and Douglas fir. (In Dutch.) Nederland. Boschbouw-Tijdschr. 20: 253-255. Sept. 1948. 99.8 N28

2349 VIDE TO, H. E. The United Kingdom forestry plans for the dedication of woodlands. Forestry Chron. 24: 201-206. Ref. Sept. 1948. 99.8 F7623

2350 WILCKENS, A. Versäumnisse der forstwirtschaft? Holz-Zentbl. 74: 231-232. July 15, 1948. 99.81 H742

2351 WILSON, J. O. Implementing the forest policy. 3. Timber Canada 8(12): 36-37. Aug. 1948. 99.81 T487

2352 THE WORK of FAO. Forestry and forest products statistics. Unasylya 2: 138-144. May/June 1948. 99.8 Un1

#### Legislation

2353 BENASSI, L. The Argentine forest law. (In Italian.) Ital. Forest. e Mont. 3: 172-176. May/June 1948. 99.8 It12

2354 FOREST legislation. Unasylya 2: 126-128. May/June 1948. 99.8 Un1

2355 JOHNSON, B. N. Legislation affecting the tie industry. Cross Tie B. 29(10): 16, 38, 40. Oct. 1948. 99.82 C87

#### FOREST DESCRIPTION AND RESOURCES

2356 ALMQVIST, C. J. In Danish forests; impressions from Falster and Lolland. (In Swedish.) Skogsägaren 23: 27-29. Feb. 1947. 99.8 Sk55

2357 ANDERSON, D. A. Forest resources of Texas. Forest Farmer 7(12): 4-5. Sept. 1948. 99.8 F7692

2358 BROSSIER, J. La forêt domaniale de la Grande-Chartreuse. Rev. du Bois 3(7/8): 3-6. July/Aug. 1948. 99.82 R32

2359 CALLAHAN, J. D. Levi Wilcoxon forest. Amer. Forests 54: 458, 468-469. Oct. 1948. 99.8 F762

2360 CUSTER, S. A. An inside look at the Delaware-Lehigh experimental forest. Forest Leaves 38: 5-6. Sept./Oct. 1948. 99.8 F763

2361 DEAN, G. W. Forest resources of Virginia. Forest Farmer 8(1): 5, 10. Oct. 1948. 99.8 F7692

2362 DOMINGUEZ, P. Riqueza forestal argentina. Argentina. Min. de Obras Púb. Rev. de Obras Sanit. de la Nación 12: 268-280. Ref. May 1948. 449.8 B63

2363 DUPRÉ CENICEROS, E. Los recursos forestales de México y su conservación. Chapingo 22: 19-20, 29. (Concl.) June 1948. 102 C36

2364 EMMERSON, D. W. Alberta's forest resources. Pulp & Paper Mag. Canada 49(11): 125-126. Oct. 1948. 302.8 P96

2365 FOREST resources of Latin America. Unasylya 2: 111-112. May/June 1948. 99.8 Un1

2366 FOREST resources of Paraguay. Unasylya 2: 129-132. May/June 1948. 99.8 Un1

2367 HELLSTROM, S. From the country with the richest forest resources in the world; impressive forest activities in U.S.S.R. (In Swedish.) Skogsägaren 23: 222-224. Dec. 1947. 99.8 Sk55

2368 LALLEMAND. La forêt girondine. 8. Bois et Résineux 30(1473): 1. Sept. 20, 1948. 99.82 B63

2369 LEIBUNDGUT, H. Aufbau und waldbauliche bedeutung der wichtigsten natürlichen waldgesellschaften in der Schweiz. Bern, Eidg. Inspektion für Forstwesen, Jagd und Fischerei, 1948. 60 p. 463.83 L53

2370 MCLEOD, J. W. The forests of Prince Edward Island. Forestry Chron. 24: 191-194. Sept. 1948. 99.8 F7623

2371 RITCHIE, J. L. The forest resources of the South. South. Pulp and Paper Mfg. 11(10A): 38-40, 54. Oct. 31, 1948. 302.8 So8

2372 SCHARD, A. With foresters from Jämtland in Norway. (In Swedish.) Skogen 35: 185-186. Aug. 15, 1948. 99.8 Sk51

Includes description of forests in Trøndelag.

2373 THE SOUTHERN region of Brazil. Unasylya 2: 135-137. May/June 1948. 99.8 Un1

2374 U. S. FOREST SERV. Black Hills National Forest, 50th anniversary. Washington, 1948. 43 p. 1 F769BL

2375 VOGT, W. Latin-American Timber, Ltd. Conserv. Amer. 7: 2-13. Apr./July 1948. 279.8 C767

Forest resources of Latin America.

#### Individual Genera and Species

2376 BAIGENT, L. E. H. Some notes on the establishment, silviculture and milling of Pinus radiata in Nelson District, New Zealand. Austral. Timber J. 14: 317, 319-320, 339. June 1948. 99.81 Au7

2377 BLOEM, J. W. Eucalyptus in connection with the cultivation problem on poor soils. (In Dutch.) Tectona 38: 125-159. 1948. 99.8 B65

English summary.

2378 BORNEBUSCH, C. H. Polish larch in Denmark. (In Danish.) Dansk Skovfor. Tidsskr. 33: 323-328. July 1948. 99.8 D23

2379 CAMPBELL, G. I. Large Cumladden Sitka spruce. Scot. Forestry 2: 39. July 1948. 99.8 Sco3

2380 CASTINEIRAS GARCIA, J. M. Arboles maderables de Cuba. Cuba. Min. de Agr. Rev. (ser. 6) 31(1): 56-62. Jan./June 1948. 8 Ag88Re

2381 CAWKWELL, M. S. How the kauris keep coming on a northern farm. New Zeal. Dairy Exporter 24(2): 87. Aug. 1948. 44.8 N484

2382 DUGELAY, A. L'Ostrya carpinifolia dans les Alpes-Maritimes. Rev. des Eaux et Forêts 87: 359-368. (To be cont.) Sept. 1948. 99.8 R322

2383 ECHEVERRÍA, I., and PEDRO, S. DE. El Pinus pinaster en Pontevedra: su productibilidad normal y aplicación a la celulosa industrial. Spain. Inst. Forest. de Invest. y Exper. B. 19(38), 147 p. 1948. 99.9 Sp1

2384 HADDOW, W. R. Check list of stations for white pine (Pinus strobus L.) and red pine (Pinus resinosa Ait.) at the northern limit of their range in Ontario. Toronto?, Dept. of Lands and Forests, 1948. 32 p. 99.21 H11

2385 JACQUIOT, C. Le chêne rouge d'Amérique. Rev. du Bois 3(7/8): 11-12. Ref. July/Aug. 1948. 99.82 R32



2386 LAHIRI, K. L. Congestion of clumps in *Dendrocalamus strictus*. *Indian Forester* 74: 78. Feb. 1948. 99.8 In2

2387 LINDSAY, W. R. Growing teak in the Canal Zone. *Foreign Agr.* 12(9): 197-198. Sept. 1948. 1.9 Ec7For

2388 MUNTZ, H. H. Slash pine versus loblolly in central Louisiana. *J. Forestry* 46: 766-767. Oct. 1948. 99.8 F768

2389 PEACE, T. R. Poplars in Scotland. *Scot. Forestry* 2: 38-39. July 1948. 99.8 Sco3

2390 PERDRIZET, G. Contribution à la monographie du peuplier tremble. *Rev. du Bois* 3: 12-15. Jan. 1948. 99.82 R32

2391 PRICE, C. W., JR. The pines are coming back [in Louisiana]. *Prog. Farmer, Miss.-Ark.-La.* Ed. 63 (10): 27, 128. Oct. 1948. 6 So81

2392 SHARP, A. The Scots pine [*Pinus sylvestris*]. *Estate Mag.* 48: 300-301. Sept. 1948. 10 Es8

2393 SŁAWIŃSKI, W. The boundaries of the beech in east-Europe (an analysis of the phenomenon). (In Polish.) *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E* 2: 57-68. Dec. 14, 1947. 512 L96Ae  
English summary.

2394 TEMPLER, J. T. Notes on mvule (*Chlorophora excelsa*). *East African Agr. J.* 13: 210-213. Apr. 1948. 24 Ea74

2395 VALDIVIA A., A. Arboles forestales y de adorno. *Campo [La Paz]* 2(12): 70-73. (Cont.) Apr. 1948. 9.1 C15

2396 VENKATARATNAM, L. Effect of heat & cold treatments on the germination of *Leucaena glauca*, Benth; a method of improving the germination of *Leucaena glauca*. *Madras Agr. J.* 35: 179-184. Ref. Aug. 1948. 22 M262

2397 WARD, J. D. U. Britain's North American trees. *Gt. Brit. Min. Agr. Agriculture* 55: 212-214. Aug. 1948. 10 G79J

2398 XIMENEZ DE EMBUN, J. El encinar monte alto. *Cult. Mod.* 31: 210-213. June 1948. 15 C89  
Spain.

#### FOREST ADMINISTRATION AND MANAGEMENT

2399 AUGUST, W. A. Community forests in Pennsylvania. *Forest Leaves* 38: 1-4. Sept./Oct. 1948. 99.8 F763

2400 BECHUANALAND. FOREST OFFICER. Report, 1947. Mafeking, 1948. 4 p. 99.9 B38

2401 BICKERSTAFF, A. Forest management at the Petawawa Forest Experiment Station. *Pulp & Paper Mag. Canada* 49(11): 151-152. Oct. 1948. 302.8 P96

2402 BODEUX, G. Que faut-il penser de la mécanisation dans les travaux forestiers en Campine limbourgeoise? *Soc. Cent. Forest. de Belg. B.* 55: 321-335. Sept. 1948. 99.9 B83

2403 BORK, J. H. Management of State forest lands. *Forest Notes* 12: 42, 49. Sept. 1948. 99.8 F7691  
New Hampshire.

2404 BUCHHOLZ, H. Der betriebsrat im forstamt. *Forstw., Holzw.* 1: 145-146. Aug. 15, 1947. 99.8 F7793

2405 CEDERSTRÖM, A. Interesting French forest methods. (In Swedish.) *Skogsägaren* 24: 51-54. Mar. 1948. 99.8 Sk55

2406 COX, H. A. Systems of management. *Wood [London]* 13: 255-256. Sept. 1948. 99.82 W855

2407 CRUIKSHANK, J. W. Forest surveys with a helicopter. *Timber Canada* 8(12): 34-35, 60. Aug. 1948. 99.81 T487

2408 DOLEZAL, K. Intensivierung in der forstwirtschaft. *Allg. Forst- u. Holzwirtschaft. Ztg.* 59: 105-108. July 1948. 99.8 AL53

2409 EDLIN, H. L. Forester's view. 2. Close utilization. *Timber News* 56: 299, 307. Aug. 1948. 99.81 T482

2410 THE FOREST inventory. *Unasylva* 2: 124-126. May/June 1948. 99.8 Un1

2411 GILMOUR, J. D. Proposed sustained-yield units for British Columbia. *Empire Forestry Rev.* 27: 52-59. July 1948. 99.8 Em72

2412 GOOR, A. Y. Forestry in Tripolitania (a flying visit in November 1946). *Empire Forestry Rev.* 27: 80-82. July 1948. 99.8 Em72

2413 GRABNER, C. Die erhaltung unseres waldes. *Allg. Forst- u. Holzwirtschaft. Ztg.* 59: 108-109. July 1948. 99.8 AL53

2414 GREAT BRITAIN. FORESTRY COMMISSION. Annual report, 28, 1946/47. London, 1948. 68 p. 99.9 G795A

2415 JANSSON, A. Management of private forests. (In Swedish.) *Skogsägaren* 23: 8-10. Jan. 1947. 99.8 Sk55

2416 JONEBORG, S. Spring work in the forest. (In Swedish.) *Skogsägaren* 24: 69-71. Apr. 1948. 99.8 Sk55

2417 KLINGBERG, H. Forest labor problems. (In Swedish.) *Skogsägaren* 23: 45-47. Mar. 1947. 99.8 Sk55

2418 LANDSORGANISATIONEN I SVERIGE. Annual report of Swedish Labor Organization. (In Swedish.) Stockholm, 1947. 662 p. 283.9 L23

Includes forest workers.

2419 LÖFGREN, A. Servico florestal de particulares. Ed. 2, rev. by Bento José Pickel. São Paulo, 1947. 40 p. 99.65 L82

2420 MCLINTOCK, T. F. Cost of timber marking in pulpwood stands. *J. Forestry* 46: 763-764. Oct. 1948. 99.8 F768

2421 MARRITT, I. C. Regulating timber cutting in southern Ontario. *Sylva* 4(4): 33-36. 1948. 99.8 Sy5

2422 OGLE, C. E. A public responsibility. *West Coast Lumberman* 75(10): 120-121. Oct. 1948. 99.81 W52

Management of forest areas.

2423 ONNERFELT, S. E. Crew for Norra Arvidsjaur's forests, 10/6-10/7; 1948; comments and experiences. (In Swedish.) *Skogen* 35: 205-206. Sept. 15, 1948. 99.8 Sk51

2424 ORGANIZATION of forest services. *Unasylva* 2: 122-123. May/June 1948. 99.8 Un1  
Latin America.

2425 PRODUCTION and marketing of new wood species. *Unasylva* 2: 117-120. May/June 1948. 99.8 Un1

2426 ROLSTED, M. Our forests. (In Norwegian.) *Norsk Landbr.* 14: 97-98. Mar. 5, 1948. 11 N8122

2427 SCHRÖTTER, VON. Über leistungen und kosten der stockholzrodung. *Forst u. Holz* 3: 148-149. Aug. 15, 1948. 99.8 F7724

2428 SMITH, N. Working plans of the Swedish State forests. *Empire Forestry Rev.* 27: 48-51. July 1948. 99.8 Em72

2429 TANGANYIKA. FOREST DEPT. Annual report, 26, 1946. Dar es Salaam, 1948. 40 p. 99.9 T15

2430 WOLSTENHOLME, D. A. Responsibilities of district foresters in New Brunswick. *Forestry Chron.* 24: 214-217. Sept. 1948. 99.8 F7623

#### Farm Woodlands

2431 BATES, C. G. How shelterbelts benefit crops. *J. Forestry* 46: 767-768. Oct. 1948. 99.8 F768

2432 FORD, J. Timber is a crop. *Forest Farmer* 8(1): 9. Oct. 1948. 99.8 F7692

2433 GORRIE, R. M. Shelterbelts in Scottish planning. *Indian Forester* 74: 68-73. Feb. 1948. 99.8 In2

2434 HARMON, W. H. Hedgerows. *Amer. Forests* 54: 448-449, 480. Oct. 1948. 99.8 F762

2435 HICKS, R. S. A Cambridgeshire spinney. *Q. J. Forestry* 42: 151-153. July 1948. 99.8 Q2

2436 LEBEDEV, V. Forest belts on the collective farms in the Volga area. (In Russian.) *Kolkhoz. Proizvod.* 8(5): 30-31. May 1948. 281.8 K83

2437 LEHMANN, H. Bauernwald im Allgäu. *Bauernwald* 2: 27-28. July 3, 1948. 99.8 B32

2438 MULLAY, M. L. There's a right time to harvest trees. *Ohio Farmer* 202(7): 16-17. Oct. 2, 1948. 6 Oh3

2439 PRESTON, J. F. Management of the farm woodlot. *Rural New-Yorker* 98: 594, 604. Oct. 2, 1948. 6 R88

2440 U. S. FOREST SERV. Farms cutting forest products. Percent of all farms, U. S. Census of 1930. Washington? 1948? Map. 1.962 A2F226

#### Mensuration

2441 BEVERSLUIS, J. R. English and Dutch yield tables for pines. (In Dutch.) *Nederland. Boschbouw-Tijdschr.* 20: 208-215. July 1948. 99.8 N28

2442 CHASE, C. D. Cumulative tallying brought up to date. *Iowa State Col. J. Sci.* 22: 333-339. July 1948. 470 Io9



2443 HAINES, A. L. The coordinate calculator and its use. *J. Forestry* 46: 738-741. Oct. 1948. 99.8 F768

2444 LOTTI, T. Tree grades for loblolly and short-leaf pine. *Forest Farmer* 8(1): 7. Oct. 1948. 99.8 F7692

2445 NÁNDOR, P. Erfahrungen zur feststellung des durchmesserquotients, der durchmesser- und der rindenangabens der aus Süd-Zala stammenden Kiefer. (In Hungarian.) *Erdészeti Kisérletek* 47: 164-211. 1947. 99.9 Er22  
German summary.

2446 NICKERSON, D. E. Age determination in growth and yield. *Forestry Chron.* 24: 176-178. Sept. 1948. 99.8 F7623

2447 SAHAI, R. Use of enumeration data and yield tables to calculate the C.A.I. of a forest with a view to fix its yield. *Indian Forester* 74: 13-15. Jan. 1948. 99.8 In2

2448 SCHAEFFER, L. Gammes de barèmes à double entrée pour le cubage du tronc des arbres sur pied. *Rev. des Eaux et Forêts* 87: 284-291. Aug. 1948. 99.8 R322

2449 SEELY, H. E. The forestry tri-camera method of air photography. *Canada. Forest Serv. Forest Air Survey Leaflet* 3, 11 p. 1948. 99.9 C16Fa

2450 TAQUET, J. Les rendements en Amérique. *Rev. du Bois* 3(6): 16-17. June 1948. 99.82 R32  
Mensuration.

2451 THUILLIER, E. Nouveau principe pour la comptabilité matières. *Rev. du Bois* 3(5): 20. May 1948. 99.82 R32

2452 WODERA, H. Die holzmassenermittlung nach luftbildern. *Allg. Forst- u. Holzwirtschaft. Ztg.* 59: 109-112, 123-126. July-Aug., 1948. 99.8 AL53

#### FOREST PROTECTION AND DAMAGE

Articles on diseases of trees are listed under Pathology in the Plant Science section; articles on forest insects in the Entomology section.

2453 BAVENDAMM, W. Ist tiek-holz termitenfest? *Holz-Zentbl.* 74: 327. Aug. 31, 1948. 99.81 H742

2454 BRAUER, F. Der brandenburgische landtag zur rettung des waldes. *Forstw., Holzw.* 1: 107. July 1, 1947. 99.8 F7793

2455 GUINIER, P. Les vices du bois, causes et remèdes. *Rev. du Bois* 3(3): 3-8. Mar. 1948. 99.82 R32

2456 HAWLEY, R. C., and STICKEL, P. W. Forest protection. Ed. 2. New York, Wiley, 1948. 355 p. 99.5 H31

2457 KRUEDENER, A. FREIHERR VON. Walderhaltung und waldzerstörung. III. Kurzbriefe f. Ernähr. u. Landw. 8, A IV 1, 6 p. Aug. 1948. 281.8 K96

2458 KRUEL, W. Arbeitsschutzmassnahmen bei der forstschädlingbekämpfung. *Forstw., Holzw.* 1: 146-148. Aug. 15, 1947. 99.8 F7793

2459 LA PANOUSE. L'estimation des dommages forestiers: une injustice à éviter. *Fed. Natl. des Synd. de Propriétaires Forest. Sylvic. B. Off.* 1948(13): 1. Jan./Feb. 1948. 99.9 F315

2460 PRESTON, A. On intraspecific variability of Eucalyptus timber to fungal rotting. *Empire Forestry Rev.* 27: 133-135. July 1948. 99.8 Em72

#### Fire

2461 BUCHHOLZ, H. Grosswaldbrände. *Forstw., Holzw.* 1: 104-105. July 1, 1947. 99.8 F7793  
Germany.

2462 CORNISH, K. S. The control of bush and grass fires. *So. Austral. Dept. Agr. J.* 51: 547-549. June 1948. 23 So84

2463 DROST, P. J. Forest and heath land fire. (In Dutch.) *Nederland. Heidemaatsch. Tijdschr.* 59: 331-334. Aug. 1948. 12 N282

2464 EVRARD. Assurance mutuelle contre l'incendie des bois sur pied. *Fed. Natl. des Synd. de Propriétaires Forest. Sylvic. B. Off.* 1947(10): 4. June/July 1947. 99.9 F315

2465 LARSEN, J. A. Early researches in the relations of forest fires and unusual weather conditions, humidity, duff moisture, and inflammability. *Iowa State Col. J. Sci.* 22: 405-413. Ref. July 1948. 470 Io9

2466 LOS ANGELES COUNTY, CALIFORNIA. DEPT. OF FORESTER AND FIRE WARDEN. Annual report, 1947/48. Los Angeles, 1948. 66 p. 99.9 L89

2467 METCALF, W. Hidden fire losses; uncontrolled fires costly to soils, plant cover, water and timber supplies. *Calif. Agr. [Calif. Sta.]* 2(10): 3, 12. Oct. 1948. 100 C12Cag

2468 MULLINS, C. E. Forestry division alert as start of fire season nears. *W. Va. Conserv.* 12(7): 14, 21. Oct. 1948. 279.8 W524

2469 ROWLAND, H. B. 1947 forest fires in Pennsylvania. *Forest Leaves* 38: 15. Sept./Oct. 1948. 99.8 F763

#### Meteorological Injuries

2470 ABEL, G. W. Slash pine damaged more by ice than other species. *Miss. Farm Res. [Miss. Sta.]* 11(9): 1, 3. Sept. 1948. 100 M69Mi

2471 FARNHAM, R. B., and others. Storm injured trees. *N. J. Agr. Col. Ext. Leaflet* 13, 4 p. Jan. 1948. 275.29 N46L

R. P. Korbobo, C. H. Connors, and A. N. Lentz, joint authors.

#### SILVICULTURE

2472 BAHADUR, S. R., and RAGHAVAN, M. S. A brief note on the regeneration of sandal to supplement existing stock in forests or to replace sandal that may be killed out by spike. *Indian Forester* 74: 42-49. Feb. 1948. 99.8 In2

2473 BAKER, F. S. A short method of determining leaf area and volume growth in pine trees. *Hilgardia* 18: 335-356. Ref. Aug. 1948. 100 C12H

2474 BOUDRU, M. Influence des essences sur le pouvoir-tampon de la couverture morte et du sol. *Groenendael. Sta. de Rech. Trav. Sér. A, Biol. Forest.* 5, 10 p. 1947. 99.9 G89

2475 CALLIN, G. Observations on the rationalization and mechanization of silviculture. (In Swedish.) *Skogsägaren* 24: 95-97. May 1948. 99.8 Sk55

2476 CHAKRAVARTI, R. The natural and artificial regeneration of dry peninsular sal [*Shorea robusta*]. *Indian Forester* 74: 57-67. Ref. Feb. 1948. 99.8 In2

2477 CHAPMAN, A. G. Survival and growth of various grades of shortleaf pine planting stock. *Iowa State Col. J. Sci.* 22: 323-331. July 1948. 470 Io9

2478 COPE, J. A. White ash-management possibilities in the Northeast. *J. Forestry* 46: 744-749. Ref. Oct. 1948. 99.8 F768

2479 CRIVELLARI, D. Notes on the outcome of the experiment in reforestation in the "Magredi" meadows of the high west Friulana plain. (In Italian.) *Ital. Forest. e Mont.* 3: 162-166. May/June 1948. 99.8 It12

2480 DANNECKER. Das plenterprinzip im laubwald. *Allg. Forstz.* 2: 153-156. (To be cont.) Oct. 15, 1947. 99.8 AL52

2481 DAVIS, D. Sal [*Shorea robusta*] natural regeneration in the United Provinces. *Indian Forester* 74: 50-52. Feb. 1948. 99.8 In2

2482 DAY, M. W. Spruce-fir silviculture. *Timber Prod. Assoc. Monthly B.* 4(2): 12-16. Oct. 1948. 99.9 T482

2483 DAY, M. W., and NELSON, T. C. Tree planting on clay soils. *Mich. Agr. Expt. Sta. Q. B.* 31: 28-34. Aug. 1948. 100 M58S

2484 DONS, H. Undergrowth under oak. (In Danish.) *Dansk Skovfor. Tidsskr.* 33: 261-313. July 1948. 99.8 D23

2485 ELLIS, F. E. Rebuilding the Bruce [Ontario] forests. *Family Herald & Weekly Star* 79(33): 7. Aug. 18, 1948. 7 F21

2486 EYSINGA, N. P. H. J. R. VAN. The development of tree nurseries in Zundert parish. (In Dutch.) *Tuinbouw* 3: 214-216. Aug. 1948. 80 T815

2487 FERSING, B. Need for private tree plant nurseries in Sweden. (In Swedish.) *Skogen* 35: 198-199. Sept. 1, 1948. 99.8 Sk51

2488 FOSTIER. Le reboisement en Ardennes. *Fed. Natl. des Synd. de Propriétaires Forest. Sylvic. B. Off.* 1948(13): 3. (To be cont.) Jan./Feb. 1948. 99.9 F315

2489 GEURKEN, J. Some practical experiences in growing young plants. (In Dutch.) *Nederland. Heidemaatsch. Tijdschr.* 59: 322-326. Aug. 1948. 12 N282  
Forest plants.



- 2490 GJETMUNDSEN, E. Pine planting. (In Norwegian.) Skogbrukeren 23: 179-180. Aug. 15, 1948. 99.8 Sk54
- 2491 GRAVES, A. H. Forest-tree breeding. Econ. Bot. 2: 284-305. July/Sept. 1948. 450 Ec7
- 2492 GREAT BRITAIN. FORESTRY COMMISSION. Poplar planting. Gt. Brit. Forestry Comm. Leaflet 27, 14 p. 1948. 99.9 G795L
- 2493 HOUTZAGERS, G. The Institute of Silviculture at Grammont (Belgium). (In Dutch.) Nederland. Boschbouw-Tijdschr. 20: 265-268. Sept. 1948. 99.8 N28
- 2494 KAUMA, E. Short notes on nursery and planting technique at Abera timber plantations, Acholi District, Uganda. Empire Forestry Rev. 27: 76-79. July 1948. 99.8 Em72
- 2495 KIELLANDER, C. L. Breeding of forest trees. (In Swedish.) Lantmannen 32: 641-642. Sept. 25, 1948. 1 L234
- 2496 KLINGBERG, H. Post-war silviculture. (In Swedish.) Skogsägaren 23: 3-7. Jan. 1947. 99.8 Sk55
- 2497 LENTZ, A. N. A guide to forest tree planting in New Jersey. N. J. Agr. Col. Ext. Leaflet 19, 4 p. May 1948. 275.29 N46L
- 2498 LENTZ, A. N. Pruning pine plantations. N. J. Agr. Col. Ext. Leaflet 16, 4 p. Apr. 1948. 275.29 N46L
- 2499 LILBURN, W. An amateur forester gains experience. Scot. Forestry 2: 34-37. July 1948. 99.8 Sco3
- 2500 LINDGREN, R. M. Care needed in thinning pines with heavy fusiform rust infection. Forest Farmer 7(12): 3. Sept. 1948. 99.8 F7692
- 2501 LUND, O. Clear cutting. (In Norwegian.) Skogbrukeren 23: 189-190. Skogbrukeren 23: 189-190. Sept. 1, 1948. 99.8 Sk54
- 2502 MERKERT, Der lochsäum. Forstw., Holz. 1: 150-153. Aug. 15, 1947. 99.8 F7793
- 2503 MOBERG, G. Regeneration cutting promoting second growth. (In Swedish.) Skogen 35: 194-195. Sept. 1, 1948. 99.8 Sk51
- 2504 MØLLER, C. M. Selective cutting of oak. (In Danish.) Dansk Skovfor. Tidsskr. 33: 329-335. July 1948. 99.8 D23
- 2505 MØLLER, C. M. Silvicultural expenses. (In Danish.) Dansk Skovfor. Tidsskr. 33: 358-362. Aug. 1948. 99.8 D23
- Criticism of article by V. Ipsen with title Increase of Silvicultural Costs in Dansk Skovforenings Tidsskrift, No. 2, Feb. 1948.
- 2506 MORTON, J. N. Strip mining. Forest Leaves 38: 16. Sept./Oct. 1948. 99.8 F763
- Reforestation of spoil banks.
- 2507 OLBERG, A. Zur sortenbildung beim kiefern-stammholz. Holz-Zentbl. 74: 351-352. Sept. 10, 1948. 99.81 H742
- Germany.
- 2508 POURTET, J. La récolte des graines forestières. Rev. des Eaux et Forêts 87: 356-358. Sept. 1948. 99.8 R322
- 2509 PRASAD, J. Thinnings apropos snow-damage in Cedrus deodara and Pinus excelsa crops. Indian Forester 74: 53. Feb. 1948. 99.8 In2
- 2510 PUTOD, R. Les reboisements en pays méditerranéens par repiquages de jeunes semis. Rev. des Eaux et Forêts 87: 334-355. (To be cont.) Sept. 1948. 99.8 R322
- 2511 ROBERTSON, W. M. The fallacy of cutting trees before they are mature. Forestry Chron. 24: 182-190. Sept. 1948. 99.8 F7623
- 2512 ROSEN, S. Breeding of our forest trees. (In Swedish.) Skogsägaren 23: 48-51, 68-70, 87-89, 110-111, 131-134, 150-151, 166-168. Mar.-Sept. 1947. 99.8 Sk55
- 2513 RUDOLF, P. O. How about our seed supply? J. Forestry 46: 741-743. Oct. 1948. 99.8 F768
- 2514 SCAMONI, A. Waldbau auf pflanzensoziologischer Grundlage. Forstw., Holz. 1: 114-117, 140-144, 156-159, 170-173. July 15-Sept. 1, 1947. 99.8 F7793
- 2515 SCHOLZ, H. F. Diameter-growth studies of northern red oak and their possible silvicultural implications. Iowa State Col. J. Sci. 22: 421-429. Ref. July 1948. 470 Io9
- 2516 SILKER, T. H. Planting of water-tolerant trees along margins of fluctuating-level reservoirs. Iowa State Col. J. Sci. 22: 431-447. July 1948. 470 Io9

- 2517 SILVICULTURAL CONFERENCE. Proceedings, 6, Dehra Dun, April 2nd to 4th, 1945. Dehra Dun, 1947. 226 p. 99.9 In27
- 2518 SINGH, P. Single stem silviculture and the conception and classification of thinnings. Indian Forester 74: 73-77. Feb. 1948. 99.8 In2
- 2519 STEINEMANN, F. G. Woods and forests. (In Portuguese.) Lavoura 52: 62-64. May/June 1948. 9.2 L39
- Silviculture for Brazil.
- 2520 STEVEN, H. M. Improvements in practice. Scot. Forestry 2: 19-26. July 1948. 99.8 Sco3
- 2521 STOECKELER, J. H. The growth of quaking aspen as affected by soil properties and fire. J. Forestry 46: 727-737. Ref. Oct. 1948. 99.8 F768
- 2522 STOECKELER, J. H. Timber stand improvement is a job that confronts many Wisconsin land owners. Timber Prod. Assoc. B. 65: 6. Aug. 1948. 99.9 T482B
- 2523 STREMMER, Wasser- und windwirkung bei kahlschlägen. Forstw., Holz. 1: 164-168. Sept. 1, 1947. 99.8 F7793
- 2524 TASSION, Au sujet du reboisement. Fed. Natl. des Synd. de Propriétaires Forest. Sylvic. B. Off. 1948(13): 2. Jan./Feb. 1948. 99.9 F315
- 2525 TRENNK, F. B. Forests return to the Peshtigo. Amer. Forests 54: 444-445, 474-476, 478-479. Oct. 1948. 99.8 F762
- 2526 TULSTRUP, N. P. Beech growing under oak; economic observations on its value as independent growth after cutting of oak. (In Danish.) Dansk Skovfor. Tidsskr. 33: 341-357. Aug. 1948. 99.8 D23
- 2527 U. S. FOREST SERV. Tree breeding at the Institute of Forest Genetics. U. S. D. A. Misc. P. 659, 14 p. 1948. 1 Ag84M
- 2528 VINCENT, G. The care of growing-stock [timber]. Interagra 2: 190-202. 1948. 28 In825
- 2529 VLOTEN, H. VAN. Production of seed from native Coniferae in the Netherlands. (In Dutch.) Nederland. Boschbouw-Tijdschr. 20: 241-242. Aug. 1948. 99.8 N28
- 2530 VOÏT, K. V., and SLOVTSOV, A. M. Lesosemennoe delo [Forest seed industry] Ed. 2, enl. and rev. Moskva, Gos. Lesotekhn. Izd-vo, 1947. 136 p. 99.47 V87
- 2531 VOÛTE, A. D. Short report on the visit of Prof. Dr. G. Houtzagers and Dr. A. D. Voûte on July 6 last, to the experimental station at Groenendaal. (In Dutch.) Nederland. Boschbouw-Tijdschr. 20: 268-271. Sept. 1948. 99.8 N28
- 2532 WAKELEY, P. C. Collecting southern pine seed. Forest Farmer 7(12): 1, 7. Sept. 1948. 99.8 F7692

## LUMBERING

- 2533 INTEGRATION of forest industries. Unasylva 2: 120-121. May/June 1948. 99.8 Un1

## Equipment

- 2534 EMMERICH, H. Der genormte rollwagen. Holz-Zentbl. 74: 403, 405, 407. Oct. 1, 1948. 99.81 H742
- 2535 FRONT, S. J. Horsepower converted into line pull. Pacific Logging Cong. Loggers Handb. 7: 93-94. 1947. 99.76 P112La
- 2536 HORINE, M. C. Engineering features based on Mack four-wheel driven bogie. Pacific Logging Cong. Loggers Handb. 7: 97-100. 1947. 99.76 P112La
- 2537 LARSON, E. V. H. Logging equipment demonstrated to interested woods operators. Canada Lumberman 68(19): 50-51, 84-85. Oct. 1, 1948. 99.81 C16
- 2538 MCCOLL, B. J. Woodlands mechanization. Pulp & Paper Mag. Canada 49(10): 125-126. Sept. 1948. 302.8 P96
- 2539 MCGINN, E. P. Cooperstown logging equipment demonstration. Paper Trade J. 127(15): 57-60. Oct. 7, 1948. 302.8 P196
- 2540 ROGERS, H. W. The wood chipper. Paper Indus. & Paper World 30: 883-888. Sept. 1948. 302.8 P1923
- 2541 RUDOLPH, W. Loggin' 'ain't what she usta be." Better Farms 8(9, i. e., 7): 3, 13. Sept. 1, 1948. 6 B462
- Logging equipment.



Logging

- 2542 BALDWIN, H. I. Integrated logging of different forest products. *Forest Notes* 12: 43-45. Sept. 1948. 99.8 F7691
- 2543 BYRNE, J. J., NELSON, R. J., and GOOGINS, P. H. Log hauling cost by motor truck and trailer. *Pacific Logging Cong. Loggers Handb.* 7: 72-86. 1947. 99.76 P112La
- 2544 CRESTIN. Transport rectiligne par câbles de lourdes charges. *Rev. du Bois* 3(3): 13-16; (5): 18-19. Mar., May 1948. 99.82 R32
- 2545 DAVIS, E. M. Lumber recovery from "woods waste" logs. *Iowa State Col. J. Sci.* 22: 341-348. July 1948. 470 Io9
- 2546 EDLIN, H. L. Forester's view. 3. Methods of extraction. *Timber News* 56: 339, 343. Sept. 1948. 99.81 T482
- 2547 ESGATE, E. E. Engineering pulpwood production. *Pulp & Paper Mag. Canada* 49(10): 132, 134, 136. Sept. 1948. 302.8 P96
- 2548 GEETE, E. Log floating and suitable streams. (In Swedish.) *Skogsägaren* 24: 115-120. June 1948. 99.8 Sk55
- 2549 HEDERSTRÖM, T. Piling up logs on land. (In Swedish.) *Skogsägaren* 24: 45-49. Mar. 1948. 99.8 Sk55
- 2550 PACIFIC LOGGING CONGRESS. Loggers handbook, v. 7. Portland, Oreg., 1947. 128 p. 99.76 P112La
- 2551 SILVERSIDES, C. R. Rationalization of some logging methods in eastern Canada. *Forestry Chron.* 24: 179-181. Sept. 1948. 99.8 F7623
- 2552 SIMMONS, F. C. Choosing methods and equipment for logging. *South. Lumberman* 177(2219): 84, 86, 88. Sept. 15, 1948. 99.81 So82
- 2553 SIMMONS, F. C. Good logging practice: ground skidding with horses. *Timber Canada* 8(12): 38-41, 58. Aug. 1948. 99.81 T487
- 2554 SOUTHERLAND, J. Logging in Sweden. *West Coast Lumberman* 75(10): 64, 94. Oct. 1948. 99.81 W52
- 2555 WARD, W. G. F-M in logging operations. *Elect. News & Engr.* 57(18): 110-111, 120. Sept. 15, 1948. 335.8 EL224
- 2556 ZWALD, A. Experiments with mobile equipment. *Pacific Logging Cong. Loggers Handb.* 7: 87-92. 1947. 99.76 P112La

Lumber Industry

- 2557 AS, L. W. van, and WIEDIJK, K. Het hout; soorten, herkomst, handel, opslag, verwerking [Wood; kinds, source, trade, storage, use]. Ed. 2. Deventer, Kluwer, 1948. 212 p. 99.79 As1
- 2558 BRATTEN, A. W. There is a close correlation between logs and lumber: hardwood log grading. *Wood [Chicago]* 3(8): 18-19. Aug. 1948. 99.82 W859
- 2559 BRYAN, A. E. United Kingdom imports of wood and timber greatly increased. *Foreign Trade* 4: 818-821. Oct. 23, 1948. 286.8 C162
- 2560 CANADA. BUR. OF STATISTICS. CENSUS OF INDUSTRY. FOREST PRODUCTS STATISTICS. Estimate of forest production operations in the woods in Canada, 1946. Ottawa, 1948. 14 p. 99.76 C16S
- 2561 CANADA. BUR. OF STATISTICS. CENSUS OF INDUSTRY. FOREST PRODUCTS STATISTICS. Preliminary report on the lumber industry in Canada, 1946. Ottawa, 1948. 24 p. 99.76 C16
- 2562 CHERRY, C. Why not trade-mark your lumber? *Timber Canada* 8(12): 44-45. Aug. 1948. 99.81 T487
- 2563 COLE, D. S. Mexican processed wood products fail to obtain export market acceptance. *Foreign Trade* 4: 520-522. Sept. 11, 1948. 286.8 C162
- 2564 GOUIN, T. L'Europe va-t-elle manquer de bois? *Bois et Résineux* 30(1471): 1. Aug. 30, 1948. 99.82 B63
- 2565 HYLER, J. E. Machining stock of variable thickness. *South. Lumberman* 177(2219): 80, 82. Sept. 15, 1948. 99.81 So82
- 2566 HYLER, J. E. Scroll bandsaws cut many cost corners. *Wood [Chicago]* 3(8): 28, 30, 42, 44-45. Aug. 1948. 99.82 W859
- 2567 LAMIAUX, R. Les machines à bois à la Foire de Paris. *Rev. du Bois* 3(6): 11-15. June 1948. 99.82 R32
- 2568 LECLAIR, W. J. The romance of lumber. *Timber Canada* 9: 49. Sept. 1948. 99.81 T487

- 2569 LOTTE, and LAMIAUX. La raboteuse. *Rev. du Bois* 3: 25-28. Jan. 1948. 99.82 R32
- 2570 MATHIEU, H. Pour une réduction des prix de revient par l'organisation scientifique du travail. *Rev. du Bois* 3(7/8): 20-24. July/Aug. 1948. 99.82 R32
- 2571 MURRAY, W. M. Research for tree markets. *Forest Farmer* 3(1): 6, 10. Oct. 1948. 99.8 F7692
- 2572 PETIPAS, J. De l'adaptation réciproque du machinisme et des besoins industriels. *Rev. du Bois* 3(3): 21-23. Mar. 1948. 99.82 R32
- 2573 RAZOUS, P. Le commerce des bois en France et dans les Pays de l'Union Française. *Bois et Scieries* 54: 587-589; 634-636. (Cont.) Aug. 5, Sept. 2, 1948. 99.81 B632
- 2574 ROL, R. Les défauts du bois. *Rev. du Bois* 3(4): 15-20; (6): 3-10. Apr., June 1948. 99.82 R32
- 2575 SANDS, W. M. Cut-stock, a challenging, undeveloped market. *South. Lumb. J.* 52(11): 35-B. Nov. 10, 1948. 99.81 So8
- 2576 SCHENCK, C. A., and BLOEDEL, J. H. Is there enough lumber to meet Marshall Plan requirements? *West Coast Lumberman* 75(9): 59. Sept. 1948. 99.81 W52
- 2577 SCHRÖDER, W. Industriegewerkschaft Holz nimmt stellung zum raubbau am deutschen wald. *Forstw. Holzw.* 1: 109-110. July 1, 1947. 99.8 F7793
- 2578 SCHRÖDER, W. Vorschläge der industriegewerkschaft Holz. *Forstw., Holzw.* 1: 122-123. July 15, 1947. 99.8 F7793
- 2579 SERLACHIUS, R. The timber agreement and some of its consequences. *Suomen Paperi ja Puutavara-lehti* 30: 165-166. May 1948. 302.8 P1991
- Chiefly on Anglo-Finnish price negotiations.
- 2580 SMITH, J. T. Canadian forests and lumbering. *Scot. Forestry* 2: 27-34. July 1948. 99.8 Sco3
- 2581 STEVENS, J. The timber crop. *South. Lumberman* 177(2219): 58. Sept. 15, 1948. 99.81 So82
- 2582 TAQUET, J. Variation du prix cubique des planches et des feuilletts en fonction de leur épaisseur. *Rev. du Bois* 3(3): 17-18. Mar. 1948. 99.82 R32
- 2583 TSENG, T. H. Survey of lumbering industry in Kiangsi. II. (In Chinese.) *Monthly Farmers' Bank China* 9(2): 31-42. Feb. 1948. 281.9 F225M
- 2584 VEDRENNE, J. On en est l'industrie de la menuiserie en 1948. *Rev. du Bois* 3(7/8): 7-10. July/Aug. 1948. 99.82 R32
- 2585 WALKER, C. R. South's lumber sales to top \$3 billion in '48. *Mfrs. Rec.* 117(10): 39-40. Oct. 1948. 297.8 M31
- 2586 WARD, W. C. New Zealand's export timber trade. *Austral. Timber J.* 14: 309, 311, 313, 315, 340. June 1948. 99.81 Au7

Sawmills

- 2587 CREIGHTON, J. W. Time study of small sawmill air dogs. *Mich. Agr. Expt. Sta. Q. B.* 31: 41-56. Aug. 1948. 100 M58S
- 2588 EMMERICH, H. Die schneidetechnische wichtigkeit des sägenüberhanges. *Holz-Zentbl.* 74: 363, 365. Sept. 14, 1948. 99.81 H742
- 2589 HETTERICH, G. Leistungsvergleich im sägewerksbetrieb. *Holz-Zentbl.* 74: 303-304. (To be cont.) Aug. 20, 1948. 99.81 H742
- 2590 KOSCHMIEDER, H. Eine stellungnahme zum gleichlautenden artikel "Neue wege in der sägeindustrie." *Forst u. Holz* 3: 146-148. Aug. 15, 1948. 99.8 F7724
- 2591 LEHMANN, C. A. Leistungsvergleich im sägewerksbetrieb. *Holz-Zentbl.* 74: 378-379. Sept. 21, 1948. 99.81 H742
- 2592 SANDMO, J. K. Yield of wood by circular sawing. (In Norwegian.) *Skogbruken* 23: 177-178. Aug. 15, 1948. 99.8 Sk54
- 2593 TELFORD, C. J., and REINEKE, L. H. Energy requirements for inserted point circular head saws. *Barrel & Box & Packages* 53(9, i. e. 10): 6-8. Oct. 1948. 99.82 B27

WOOD TECHNOLOGY

- 2594 CRAIG, R., JR. Wood defiberization; a progress report. *Lansing, Mich. Dept. of Econ. Develpmt.*, 1947. 5 p. 99.7 C84
- 2595 GUINOT, H. Le bois, dans l'industrie chimique. *Rev. du Bois* 3(4): 8-14. Apr. 1948. 99.82 R32



2596 HARRIS, E. E., and JOHNSON, M. C. Microbiological utilization and disposal of wood-processing wastes. (Abs.) Paper Indus. & Paper World 30: 940-941. Sept. 1948. 302.8 P1923

2597 HARRIS, E. E., HANNAN, M. L., and MARQUARDT, R. R. Production of food yeast from wood hydrolyzates. Indus. & Engin. Chem. 40: 2068-2072. Ref. Nov. 1948. 381 J825

2598 JOHNSON, M. C., and HARRIS, E. E. Acclimatization of various yeasts to wood sugar. Amer. Chem. Soc. J. 70: 2961-2963. Sept. 1948. 381 Am33J

2599 LESSER, M. A. A discussion on the plasticizing action of glycerine for the proper conditioning of wood. Wood Prod. 53(9): 35-37. Sept. 1948. 99.82 W856

2600 PEW, J. C. A flavonone from Douglas-fir heartwood. Amer. Chem. Soc. J. 70: 3031-3034. Sept. 1948. 381 Am33J

2601 RITTER, E. J. Holzeinsparung und neuzeitliche holztechnik. Holz-Zentbl. 74: 381, 383. (To be cont.) Sept. 21, 1948. 99.81 H742

2602 RUSSELL, A. Interpretation of lignin. II. the synthesis of further analogs of spruce lignin. Amer. Chem. Soc. J. 70: 2864-2865. Sept. 1948. 381 Am33J

2603 SCHÜTZ, F., SARTEN, P., and MEYER, H. Beiträge zur holzchemie. III. Angew. Chem. 60: 115-125. May 1948. 384 Z33

#### Preservative Treatment

2604 ALLIOT, H. L'industrie chimique au service de la protection du bois. Rev. du Bois 3(3): 26-28. Mar. 1948. 99.82 R32

2605 ALTHAUS, W. G. Profits in green posts: sell your farmer customers this rapid, easy means of getting long life from freshly-cut fence posts. South. Seedsman 11(11): 17, 48. Nov. 1948. 61.8 So8  
Wood preservation.

2606 BOND, R. W. Wood preservatives. I. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 162: 1-2. Apr. 1948. 99.9 Au722F

2607 GRIFFIOEN, K. Timber pests and their control. (In Dutch.) Tectona 38: 161-181. Ref. 1948. 99.8 B65  
English summary.

2608 MANN, R. H. Creosoted pile racks in New York City ferry terminal. Wood Preserv. News 26: 101-103, 111. Sept. 1948. 300.8 W853

2609 MINZLAFF, K. Chemischer holzschutz. Forstw., Holzw. 1: 168-170. Sept. 1, 1947. 99.8 F7793

2610 SCHULZE, B., and THEDEN, G. Zur frage von sperrstoffanstrichen auf getränktem holz. Holz-Zentbl. 74: 231-232. July 15, 1948. 99.81 H742

2611 SPROULL, R. C. Preserved poles for tomorrow. Elect. Light & Power 26(10): 64-69, 140. Oct. 1948. 238.8 EL243

2612 STACEY, W. A. War surplus creosoted piles used in new Kansas transmission line. Wood Preserv. News 26: 90-93. Aug. 1948. 300.8 W853

#### Properties and Structure

2613 ALLIOT, H. Guide pratique pour la reconnaissance des principaux bois commerciaux de notre pays. Rev. du Bois 3: 23. (Concl.) Jan. 1948. 99.82 R32

2614 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. The mechanical properties of Queensland grown hoop pine, by R. S. T. Kingston. South Melbourne, 1947. 48 p. (Proj. T.M.9-7. Final Rpt.) 99.79 Au7M

2615 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Note on the vascular tissue in the rays of Banksia, by M. M. Chattaway. South Melbourne, 1948. 7 p. (Proj. W.S. 1-4, App. to Final Rpt.) 99.31 Au7N

2616 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. The properties of Queensland maple (Flindersia brayleyana F.v.M. and Flindersia pimenteliana F.v.M.), by N. H. Kloot. South Melbourne, 1948. 14 p. (Proj. T.M. 18-19, Prog. Rpt. 1) 99.79 Au7P

2617 BERKLEY, E. E., and WOODYARD, O. C. Certain variations in the structure of wood fibers. Textile Res. J. 18: 519-525. Sept. 1948. 304.8 T293

2618 BRISSAUD, L. L'analyse des bois et des pâtes de cellulose. Chim. Analyt. 30: 201-205. (To be cont.) Sept. 1948. 383 An72

2619 HESS, R. W. Keys to American woods. Yale U. School Forestry. Trop. Woods 94: 29-52. (Cont.) June 1, 1948. 99.08 Y1Tr

2620 HO, T. H. Wood anatomy of three species of Pinaceae. Acad. Sinica. Inst. Bot. Bot. B. 2: 198-203. Ref. Sept. 1948. 451 Ac1

2621 HYLER, J. E. Grain figure in wood. South. Lumberman 177(2221): 50. Oct. 15, 1948. 99.81 So82

2622 HYLER, J. E. Shrinkage of wood and lumber. South. Lumberman 177(2219): 68. Sept. 15, 1948. 99.81 So82

2623 JACQUIOT, C. Étude du bois d'épicéa d'Orient. Rev. du Bois 3: 20-22. Jan. 1948. 99.82 R32

2624 JANE, F. W. The structure of wood. 29-30. Timber News 56: 296, 307, 336, 343. Aug.-Sept., 1948. 99.81 T482

2625 LAMB, G. N. Foreign woods: origin, use, properties and nomenclature. Wood Prod. 53(9): 26, 28; (10): 24. Sept.-Oct., 1948. 99.82 W856

2626 MÜLLER, O. Beiträge zur chemie des buchenholzes. 1. Justus Liebig's Ann. der Chem. 558: 81-91. Ref. July 30, 1947. 384 An7

2627 NAMBIAR, V. P. N., and RAO, D. V. Identifying timber by light-scattering. Timber News 56: 333-335. Sept. 1948. 99.81 T482

From Journal of the India Society of Engineers.

2628 SCHMUCKER, T. Anthocyan im holz der rotbuche. Naturwissenschaften 34: 91. 1947. 474 N213

#### Seasoning, Conditioning, and Finishing

2629 BLOND, L. Le séchage des bois et le collage en haute fréquence. Rev. du Bois 3(5): 10-15. Ref. May 1948. 99.82 R32

2630 DESCH, H. E. Some practical seasoning problems. Timber & Plywood 95: 550, 552. (To be cont.) Sept. 30, 1948. 99.81 T489

2631 MANSELL, R. How lacquer sealers are used in wood finishing. Furniture Mfr. 63(9): 14-15, 53, 59. Sept. 1948. 300.8 F982

2632 PECK, E. C., BAKER, G., and CARTER, R. M. Chemical treatment and seasoning of thick beech stock. South. Lumberman 177(2220): 58, 60. Oct. 1, 1948. 99.81 So82

2633 THIRY. Une intéressante réalisation dans le domaine du séchage artificiel de bois de forte épaisseur. Rev. du Bois 3(6): 23-24. June 1948. 99.82 R32

2634 THOMAS, F. H. Thirteen steps to better radio cabinet finishing. Wood [Chicago] 3(8): 22-23, 45-46. Aug. 1948. 99.82 W859

2635 UTERHARCK, F. W. Kontrolle des trocken-vorganges. Holz-Zentbl. 74: 328-329. Aug. 31, 1948. 99.81 H742

2636 WAMPLER, R. H. How to get the best results with lacquers. Furniture Mfr. 63(10): 38, 53. Oct. 1948. 300.8 F982

2637 WELCH, J. B. Modern kiln design and equipment. Furniture Mfr. 63(9): 26-27, 50. Sept. 1948. 300.8 F982

#### FOREST PRODUCTS

2638 ARNST, A. Utilization advances as West Coast loggers find use for bark. Timber Topics 11(4): 2, 3. July/Aug. 1948. 99.81 T486

2639 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Annual report, 1947/48. South Melbourne, 1948. 59 p. 99.9 Au722R

2640 BAKER, W. J. The Oregon Forest Products Laboratory. Oreg. Forest Prod. Lab. Inform. C. 3, 16 p. June 1948. 99.9 Or3522I

2641 DUNN, P. M. Forest products research in Oregon. Iowa State Col. J. Sci. 22: 363-369. July 1948. 470 Io9

2642 FALK, P. E. Zukunftsfragen der parkettindustrie. Holz-Zentbl. 74: 307. Aug. 20, 1948. 99.81 H742

2643 FOREST products industry directory of western North America, 1948-1949. Portland, Oreg., Timberman, 1948. 330 p. 225 T483

2644 HARRIS, E. E. Wood molasses: low-value timber can be made into livestock feed. Naval Stores Rev. 58(17, i. e. 18): 14, 25-28. July 31, 1948. 99.81 N22

Similar title in South Lumber J. 52(10): 19, 110. Oct. 10, 1948. 99.81 So8



2645 HEBBLETHWAITE, C. H. The selection of timbers for handles. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 164: 1-2. June 1948. 99.9 Au722F

2646 HERITAGE, C. C., and DUVAL, T. C. Whole wood fiber manufacture. South. Pulp & Paper Mfr. 11(9): 50, 52-54, 56. Sept. 15, 1948. 302.8 So8

2647 HUBERT, E. E. Wood residues for wallboards. Chemurg. Digest 7(10): 8-9. Oct. 1948. 381 N213Na

2648 KEIDEL, B. Beitrag zur untersuchung zeitgemässer verwertung des rohstoffes holz. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 113. July 1948. 99.8 AL53

2649 LANDGRAEBER, W. Moderne bergtechnik zur minderung des grubenholzverbrauchs. Forstw., Holzw. 1: 105-107. July 1, 1947. 99.8 F7793

2650 LARINKARI, J. World policy of industrial alcohol production. (In Finnish.) Suomen Paperi ja Puutavaraletti 30: 235-239. 1948. 302.8 P1991  
English summary.

2651 MCELHANNY, T. A. Widening uses for wood waste. Brit. Columbia Lumberman 32(9): 60, 84, 86. Sept. 1948. 99.81 B77

2652 MARSHALL, H. B. New uses of wood. Canad. Chem. & Process Indus. 32: 816-820. Sept. 1948. 381 C16

2653 MAZEK-FIALLA, K. Die forstlichen sonder-nutzungen als wirtschaftsfaktor. Allg. Forst- u. Holz-wirtschaft. Ztg. 59: 128-129. Aug. 1948. 99.8 AL53

2654 PARMELEE, J. H. What the railroads need from the tie industry. Cross Tie B. 29(9): 14-16, 47. Sept. 1948. 99.82 C87

2655 PERSHALL, E. E. Europe's export tie problem. Cross Tie B. 29(10): 10-15. Oct. 1948. 99.82 C87

2656 ROBBINS, P. W. Wood production on the Dun-bar Forest Experiment Station. Mich. Agr. Expt. Sta. Q. B. 31: 57-60. Aug. 1948. 100 M58S

2657 SANDS, W. M. Interplant exchange of factory waste. Wood Prod. 53(10): 16-18. Oct. 1948. 99.82 W856

Also in South. Lumberman 177 (2220): 54, 56. Oct. 1, 1948. 99.81 So82

2658 SAYERS, W. B. Forests and the tie industry. W. Va. Conserv. 12(7): 13. Oct. 1948. 279.8 W524

2659 SOULILLOU, A. Dans la saboterie. Rev. du Bois 3(5): 16-17. May 1948. 99.82 R32

2660 SPOKANE CHAMBER OF COMMERCE. TIM-BER PRODUCTS BUR. Wood products clinic, 3, 1948. Spokane, 1948. 97 p. 99.9 Sp6

2661 TILLER, W. E. What the tie industry needs from railroads. Cross Tie B. 29(9): 17-18. Sept. 1948. 99.82 C87

2662 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Small-scale manufacture of insulating boards from wood wastes. South. Lumberman 177(2219): 42, 44, 46, 48, 50, 52, 54, 56. Sept. 15, 1948. 99.81 So82

2663 VILLIÈRE, L. L'utilisation du bois pour l'alimentation du bétail. Rev. du Bois 3(7/8): 25-26. July/Aug. 1948. 99.82 R32

#### Building Construction

2664 BAINES, G. G., and MELLOR, T. The archi-tect, timber, and substitutes. Timber News 56: 289-290. Aug. 1948. 99.81 T482

2665 HEBBLETHWAITE, C. H. Planking for small craft. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 162: 3-4. Apr. 1948. 99.9 Au722F

2666 MARE, E. DE. Factory-made timber houses in Sweden. Wood [London] 13: 258-260. Sept. 1948. 99.82 W855

2667 MOUGIN, M. Une utilisation du pin des Landes, la charpente clouée. Rev. du Bois 3(6): 18. June 1948. 99.82 R32

2668 NICHOLS, W. Laminated compressed wood. Timber & Plywood 95: 541-542, 544. Sept. 30, 1948. 99.81 T489

2669 PINGUSSON, G. H. La maison usinée "portique" et le complexe Béton-bois. Rev. du Bois 3(6): 19-20. June 1948. 99.82 R32

2670 PROCUREUR, A. A propos du moulin de Valmy: l'emploi du bois dans la construction des moulins à vent. Rev. du Bois 3(4): 3-7. Apr. 1948. 99.82 R32

2671 SANDS, W. H. The trailer industry as a poten-tial cut-stock market. Wood Working Digest 50(9): 73-74, 76. Sept. 1948. 99.82 W87

Also in Wood Prod. 53(9): 19-20. Sept. 1948. 99.82 W856

2672 SIMMONS, J. R. Covered bridges on the Dela-ware. Amer. Forests 54: 454-456, 469. Oct. 1948. 99.8 F762

2673 VRAIN, G. La passerelle en bois du Cours-La-Reine à l'exposition de l'urbanisme et de l'habitation. Rev. du Bois 3(3): 9-12. Mar. 1948. 99.82 R32

#### Charcoal

2674 ARIES, R. S. A small continuous wood distilla-tion unit. Northeast. Wood Util. Council. B. 24, 15 p. Sept. 1948. 99.9 N819

2675 BERGSTROM, H. Preventing the throwing off of the covering of a charcoal pit. (In Swedish.) Skogen 35: 195. Sept. 1, 1948. 99.8 Sk51

2676 HUGHES, F. A metal-lined pit charcoal kiln. East African Agr. J. 14: 53. July 1948. 24 Ea74

2677 HUGHES, J. F. A new type of portable char-coal kiln. Empire Forestry Rev. 27: 72-75. July 1948. 99.8 Em72

2678 PETERS, M. S. Charcoal, salvation of the wood distillation industry. Wood Prod. 53(10): 18, 22. Oct. 1948. 99.82 W856

#### Containers

2679 BORKENHAGEN, E. H., and KUELLING, H. J. Nail clinching improves wood box joint strength. 1. Wooden Box & Crate 10(4): 7-10. 1948. 99.82 W857

2680 CAMPBELL, D. The co-operative distribu-tion of case timber. Brisbane, Co-operative Union of Queensland, 1947. 12 p. 99.75 C152

2681 HOFFMAN, A. W. Current developments in packaging and containers. Paper Mill News 71(39): 28, 30. Sept. 25, 1948. 302.8 P195

2682 MALCOLMSON, J. D. The testing and design-ing of fibreboard containers. Canner 107(12): 30, 32. Sept. 18, 1948. 286.83 C16

Also in Fibre Containers 33(10): 28, 30. Oct. 1948. 286.8 F44 and Paper Mill News 71(39): 29-30. Sept. 25, 1948. 302.8 P195

#### Cork

2683 BEAMISH, H. V. Where cork comes from. Country Life [London] 104: 623. Sept. 24, 1948. 80 C83

#### Furniture

2684 CHAVANCE, R. La marqueterie. Rev. du Bois 3(3): 19-20. Mar. 1948. 99.82 R32

#### Naval Stores

2685 CLEMENTS, R. W. Results of 1947 pilot plant tests of chemical stimulation. Naval Stores Rev. 58(31): 15-16. Oct. 30, 1948. 99.81 N22

2686 ENKVIST, T. Investigations concerning tall oil pitch. (In Swedish.) Svenska Träforskningsinst. Träkemi och Papperstek. Meddel. 25, 7 p. Stockholm, 1947. 99.9 St62

German and English summaries.

2687 ENKVIST, T. Phytosterol in tall oil pitch. (In Swedish.) Svenska Träforskningsinst. Träkemi och Papperstek. Meddel. 24, 3 p. Stockholm, 1947. 99.9 St62

German and English summaries.

2688 MANN, W. F. Combined bark hack and acid bottle saves time. Forest Farmer 7(12): 5. Sept. 1948. 99.8 F7692

Equipment for acid treatment to stimulate resin produc-tion.

2689 MORGAN, J. J. An old industry stays young. Agr. Situation 32(10): 1-3. Oct. 1948. 1 Ec7Ag  
Naval stores.

#### Plastics

2690 TIEMANN, H. D. Wood as a plastic: dead load tests. South. Lumberman 177(2221): 68, 70. Oct. 15, 1948. 99.81 So82

#### Pulp and Paper

2691 BADE, O. M. Chemical treatment of wood pulp to prevent damages caused by fungi. (In Norwegian.) Norsk Skogindus. 2: 223-227. Aug. 1948. 99.82 N81

2692 BOAS, I. H. Review of Australia's raw ma-terial position for pulp and paper. World's Paper Trade Rev. 130: 731-732, 734. (Concl.) Sept. 9, 1948. 302.8 W89



2693 BROWN, W. W. A horizontal disk chipper. Pulp & Paper Mag. Canada 49(11): 95-97. Oct. 1948. 302.8 P96

2694 CANADIAN PULP AND PAPER ASSOCIATION. The pulp and paper industry of British Columbia. Brit. Columbia Lumberman 32(9): 58-59, 114, 116, 118. Sept. 1948. 99.81 B77

2695 CANFIELD, R. E. The oldest wood pulp and the newest. Paper Trade J. 127(16): 17-19. Oct. 14, 1948. 302.8 P196

2696 CHANG, H. Y. Paper manufacturing in Chung-jen, Kiangsi. (In Chinese.) Monthly Farmers' Bank China 9(3): 25-27. Mar. 1948. 281.9 F225M

2697 DE MERS, C. D. Instrument application in groundwood pulp mills. Pulp & Paper Mag. Canada 49(10): 96-100. Sept. 1948. 302.8 P96

2698 FERGUSON, R. R. Recent advances in zinc hydrosulphite bleaching of groundwood. Paper Trade J. 127(16): 52-55. Oct. 14, 1948. 302.8 P196

2699 GADD, G. O. Moisture content and danger of development of mould on mechanical pulp. (In Swedish.) Norsk Skogindus. 2: 179-183. July 1948. 99.82 N81 English summary.

2700 GOOCH, W. L. Pulp and paper making in Korea. South. Pulp and Paper Mfg. 11(10A): 66, 68, 70-71. Oct. 31, 1948. 302.8 S08

2701 GRANT, J. Wood pulp and allied products. Ed. 2. London, Hill, 1947. 312 p. 99.77 G76

2702 GUERNSEY, F. W. Wood waste as a source of pulp on the Pacific Coast. Brit. Columbia Lumberman 32(9): 66, 107-108, 110, 112. Sept. 1948. 99.81 B77

2703 HALE, J. D. A summary of experiments on chemical barking of trees. Canada. Forest Serv. Mimeog. 119, 10 p. Jan. 1947. 99.9 C16B

2704 HOBART, G. M. Pulp, paper and packages. Pulp & Paper Mag. Canada 49(10): 69-72. Sept. 1948. 302.8 P96

2705 JAATINEN, B. Report from America. (In Swedish.) Suomen Paperi ja Puutavaralehti 30: 205-208, 224-227. 1948. 302.8 P1991

Pulp and paper industry in the United States.

2706 KERN, F. Die wünsche der papier- und zellstoff-industrie an den rohstoff holz. Forstw., Holzw. 1: 100-104. July 1, 1947. 99.8 F7793

2707 MCGOVERN, J. N., MACKIN, G. E., and CHIDESTER, G. H. Production of liner boards from jack pine and hardwood semichemical pulps. (Sum.) Fibre Containers 33(9): 24; (10): 35-36, 38, 40, 45-46, 48, 50, 52. Sept.-Oct., 1948. 286.8 F44

2708 MARCH, R. E. The effect on pulp quality of the stepwise removal and replacement of the hemicelluloses from aspen holocellulose. Paper Trade J. 127(17): 51-57. Ref. Oct. 21, 1948. 302.8 P196

2709 MATHIESEN, E. From a visit to American paper mills. (In Norwegian.) Norsk Skogindus. 2: 184-190. July 1948. 99.82 N81 English summary.

2710 PAPER and pulp mill catalogue; engineering handbook, 1948-49. Ed. 25. Chicago, Fritz P., 1948. 516 p. 302.8 P1927

2711 PEARL, I. A. Utilization of sulfite waste liquor. Chem. & Engin. News 26: 2950-2953, 3006. Ref. Oct. 4, 1948. 381 J825N

2712 RICHTER, J. Continuous cellulose cooking. (In Finnish.) Suomen Paperi ja Puutavaralehti 30: 269-272, 275. 1948. 302.8 P1991

2713 RITCHIE, J. L. The southern pulp and paper industry. South. Pulp and Paper Mfg. 11(10A): 44, 46, 48, 50, 52, 54. Oct. 31, 1948. 302.8 S08

2714 ROGERS, H. W. The wood chipper. II. Paper Indus. and Paper World 30: 1042-1047. Oct. 1948. 302.8 P1923

2715 SCHUR, M. O., and MCMURTRIE, D. H. Nitration of wood pulp: influence of the physical condition of pulp and of the species of wood. I-II. Paper Trade J. 127(13): 51-58; (14): 39-45. Sept. 23-30, 1948. Ref. 302.8 P196

2716 SIGEL, A. Optimistic outlook for pulp. Paper Mill News 71(42): 17. Oct. 16, 1948. 302.8 P195

2717 TSAO, T. W. Purified bamboo cellulose. n. p., 1947? p. 39-46. 309 T78

2718 ZASADA, Z. A., and FREDERICKSON, F. T. Limits of closer utilization of black spruce pulpwood. Pulp & Paper Mag. Canada 49(11): 128, 130, 132, 134. Oct. 1948. 302.8 P96

### Tanning Material

2719 GRAVEL, R. E. Argentina and Paraguay are main producers of quebracho extract. Foreign Trade 4: 762-764. Oct. 16, 1948. 286.8 C162

2720 GRAVEL, R. E. Producers in Argentina and Paraguay of quebracho extract control market. Foreign Trade 4: 836-838. Oct. 23, 1948. 286.8 C162

2721 KÜNTZEL, A., and MELZER, E. The fractionation of pine bark extract with ethanol. Amer. Leather Chem. Assoc. J. 43: 613-633. Ref. Oct. 1948. 303.9 Am32

### Veneers, Plywood, and Adhesives

2722 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. The effect of log heating schedules on veneer quality. Working plan, by C. Koch. South Melbourne, 1948. 4 p. (Exp. V.C.20-1-Y-1) 99.77 Au7E

2723 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Use of Australian potato starch in plywood adhesives, by A. W. Rudkin. South Melbourne, 1948. Pt. 3-4. (Subproj. V.G.4-7, Expt. V.G.4-7-Y-1) 309 Au7U

2724 BOOTH, F. L. Technique of custom plywood manufacture. Veneers & Plywood 42(9): 14, 16-17. Sept. 1948. 99.82 V55

2725 FLEISCHER, H. O. Heating veneer logs. South. Lumberman 177(2220): 44, 46, 48. Oct. 1, 1948. 99.81 S082

2726 FREMIN, M. Une technique nouvelle de fabrication des planchers. Rev. du Bois 3(7/8): 18-19. July/Aug. 1948. 99.82 R32

2727 GANE, L. C. Changing patterns in the field of plywood. Timber & Plywood 95: 340, 342. Aug. 26, 1948. 99.81 T489

2728 GARLAND, H. Aspen for veneer. I-II. Furniture Mfr. 63(9): 16, 56; (10): 34, 36, 55. Sept.-Oct., 1948. 300.8 F982

2729 HYLER, J. E. Veneered stile and rail doors. Veneers & Plywood 42(9): 34, 36-37. Sept. 1948. 99.82 V55

2730 MCCALLUM, W. H. Douglas fir plywood finds many uses in lumber industry. Timber Topics 11(4): 1, 3-4, 11. July/Aug. 1948. 99.81 T486

2731 MARRA, A. A. The technology of the glue line in electronic edge-gluing of lumber. I. Furniture Mfr. 63(10): 24, 57-59. Oct. 1948. 300.8 F982

2732 MOSER, H. C. Edge-gluing engineering and production systems. Furniture Mfr. 63(9): 22, 24, 28. Sept. 1948. 300.8 F982

2733 NICHOLS, W. Moulded plywoods. 3-6. Timber & Plywood 95: 301-302, 304, 339-340. 459-560, 505-506, 508. Aug. 19-26, Sept. 16-23, 1948. 99.81 T489

2734 PERRY, T. D. Paper faced plywood. Wood Prod. 53(9): 39-43. Sept. 1948. 99.82 W856

2735 PERRY, T. D. Paper faced veneer. Wood Prod. 53(10): 38, 40, 42-43. (Cont.) Oct. 1948. 99.82 W856

2736 RILEY, T. E. Unrolling logs for plywood. Pop. Sci. Monthly 153(5): 134-137. Nov. 1948. 420 P81

2737 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Synthetic-resin glues. South. Lumberman 177(2220): 71-72, 74, 76, 79-80, 82, 84. Oct. 1, 1948. 99.81 S082

### Wood as Fuel

2738 ALBERTS, H. W. La yareta [Azorella yareta]. Co. Admin. del Guano, Peru. B. 24: 51-54. Apr. 1948. 57.9 C73B

Used chiefly for fuel.

2739 BALTZER, C. E., and PRINCE, J. B. The use of sawdust as fuel at portable and small stationary-type sawmills. Canada. Forest Serv. Mimeog. 127, 7 p. July 1947. 99.9 C16B

2740 LESCUYER. Le bois de chauffage. Sa place dans notre économie. Rev. du Bois 3(5): 7-9. May 1948. 99.82 R32

### MISCELLANEOUS

2741 ADLEM, E. L. Timber philately: impressive Empire designs—a tribute to the industry. Timber Trades J. 186: 576-577. July 31, 1948. 99.81 T48

2742 BUCH, W. Unfallverhütung beim umgang mit pferden. Forstw., Holzw. 1: 153-155. Aug. 15, 1947. 99.8 F7793



- 2743 CAMPREDON, J. Images d'Amérique. Rev. du Bois 3: 3-10. Jan. 1948. 99.82 R32  
Especially U. S. Forest Service Station at Asheville, N. C.
- 2744 CANADIAN SOCIETY OF FOREST ENGINEERS. Commentary on the report of the Ontario Royal Commission on Forestry. Forestry Chron. 24: 207-213. Sept. 1948. 99.8 F7623
- 2745 DESCH, H. E. Nomenclature of timber. Timber News 56: 304, 308. Aug. 1948. 99.81 T482
- 2746 ECKERBOM, N. Forestry and culture. (In Swedish.) Skogen 35: 207-208. Sept. 15, 1948. 99.8 Sk51
- 2747 ELLENBEE. What's in a name? Indian Forester 74: 67-68. Feb. 1948. 99.8 In2
- 2748 FICKERT. Arbeits- und unfallschutz im walde. Forstw., Holz w. 1: 149-150. Aug. 15, 1947. 99.8 F7793
- 2749 FRANCE-BOIS. Ed. 22. Paris, Comité Nzionale des Bois Coloniaux, 1948. 778 p. 225 F843
- 2750 GUAY, G. The role of consultant forestry engineers in the Province of Quebec. Forestry Chron. 24: 218-221. Sept. 1948. 99.8 F7623
- 2751 HADDOW, W. R. Wooden ships and wooden cargoes—a reminiscence of morbidity. Forestry Chron. 24: 195-200. Sept. 1948. 99.8 F7623  
Includes decay.
- 2752 HÄGGLUND, E. Short survey of the activities of the Wood Chemical and Cellulose Technical Division of the Swedish Wood Research Institute during 1946. (In Swedish.) Svenska Träforskningsinst. Träkemi och Papperstek. Meddel. 15, 9 p. Stockholm, 1947. 99.9 St62
- 2753 HERBIGNAT, A. Commission Internationale du Peuplier. Soc. Cent. Forest. de Belg. B. 55: 336-365. Sept. 1948. 99.9 B83
- 2754 HOUTZAGERS, G. Forestry research. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 59: 327-330, 373-378. Aug.-Sept. 1948. 12 N282
- 2755 HOUTZAGERS, G. Report on the second International Poplar Congress, held in Italy from April 20-29, 1948. (In Dutch.) Nederland. Boschbouw-Tijdschr. 20: 193-205. Ref. July 1948. 99.8 N28
- 2756 JOHNSON, P. From Scania's forest history. (In Swedish.) Skogsägaren 24: 78-80. Apr. 1948. 99.8 Sk55
- 2757 JOHNSON, P. Holy trees and holy groves. (In Swedish.) Skogsägaren 23: 231-233. Dec. 1947. 99.8 Sk55  
Folklore.
- 2758 JOHNSON, P. Småland's forests 150 years ago. (In Swedish.) Skogsägaren 23: 29-32. Feb. 1947. 99.8 Sk55
- 2759 LEMARIE, Y. Report on the forestry-research in Slovakia. (In Russian.) Interagra 2: 188-190. 1948. 28 In825  
English summary.
- 2760 MAŘAN, B. The organization of forestry research in Czechoslovakia. (In Russian.) Interagra 2: 184-187. 1948. 28 In825  
English summary
- 2761 MEIDELL, A. New organization of research in the Norwegian forestry and wood processing industries. Interagra 2: 225-228. 1948. 28 In825
- 2762 NEIDE, K. H. Genossenschaftsbildung im waldbesitz. Forstw., Holz w. 1: 173-174. Sept. 1, 1947. 99.8 F7793  
Germany.
- 2763 NGAN, H. A brief summary of the work of the National Forestry Research Bureau for the year 1947. China. Min. Agr. and Forestry. Misc. P. 1: 35-37. Apr. 1948. 22.5 C4412M
- 2764 ROHMEDER, E. Die landeskulturelle bedeutung des deutschen waldes. Bauernwald 2: 21-22. June 5, 1948. 99.8 B32
- 2765 ROSEN, S. Importance of forestry to our country. (In Swedish.) Skogsägaren 23: 33-35. Feb. 1947. 99.8 Sk55
- 2766 SCHULTZ, C. D. The forester in private practice in British Columbia. Forestry Chron. 24: 222-225. Sept. 1948. 99.8 F7623
- 2767 SETINEK, K. Results and importance of the discussions held by the forestry specialists on the 3-9th of May 1948 in Prague. (In Russian.) Interagra 2: 87-89. 1948. 28 In825
- 2768 SIRAKOV, G. Conference on forestry research in Yugoslavia. (In Bulgarian.) Gorsko Stopanstvo 4 (6/7): 234-238. June/July 1948. 99.8 G682
- 2769 STEIJN, J. A. VAN. Report on the first session of the European Committee on Forestry and Forestry Products of the Food and Agriculture Organization of the United Nations. (In Dutch.) Nederland. Boschbouw-Tijdschr. 20: 260-264. Sept. 1948. 99.8 N28
- 2770 TAYLOR, W. L. The influence of forestry on the community. Timber & Plywood 95: 468, 470. Sept. 16, 1948. 99.81 T489
- 2771 THODE. Der forstbetriebs- (revierförster) beruf. Forstw., Holz w. 1: 123-124. July 15, 1947. 99.8 F7793
- 2772 U. S. FOREST SERV. Monthly injury sweepstakes. Washington? 1948. 1 p. 1.962 A2M76
- 2773 U. S. FOREST SERV. NORTHEASTERN FOREST EXPERIMENT STATION. The annual report, 1947. Upper Darby, Pa., 1948. 58 p. 1.9 F76222  
Forest surveys and research.
- 2774 VIETINGHOFF-RIESCH, FREIHERR VON. Die ethischen und ästhetischen folgen der waldverwüstung. Forst u. Holz 3: 145-146. Aug. 15, 1948. 99.8 F7724
- 2775 WALKER, F. S. Field identification of trees by multiple entry in a perforated card system. Empire Forestry Rev. 27: 130-133. July 1948. 99.8 Em72

#### Education

- 2776 BUNTZEL, O. Berufliche schulung des sägewerkers—sägewerkschule. Forstw., Holz w. 1: 118-119. July 15, 1947. 99.8 F7793
- 2777 HAYES, R. W. Louisiana State University. Wood [Chicago] 3(8): 27, 46-48. Aug. 1948. 99.82 W859  
Education in forest utilization.
- 2778 JONSSON, J. N. Forest and education. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(8): 5. Feb. 22, 1947. 11 J762
- 2779 LUTHMAN, G. Organization of vocational education in forestry. (In Swedish.) Skogen 35: 183-184, 197-198. Aug. 15-Sept. 1, 1948. 99.8 Sk51
- 2780 MATTISON, C. W. Forest-conservation education. NEA Journal 37: 452-453. Oct. 1948. 275.9 N21J
- 2781 NEW YORK STATE COLLEGE OF FORESTRY. SYRACUSE UNIVERSITY. Opportunities for graduate work and research. N. Y. State Col. Forestry, Syracuse U. B. 21(1-a), 45 p. Sept. 1948. 99.9 N486B
- 2782 STOREY, T. A. Timber trade education—what it covers and what it costs. Timber & Plywood 95: 406, 408. Sept. 9, 1948. 99.81 T489
- 2783 TRAINING of personnel. Unasylva 2: 123-124. May/June 1948. 99.8 Un1  
Latin America.
- 2784 U. S. FOREST SERV. Forestry and the schools, by C. W. Mattison. Washington, 1948. 33 p. 1.962 A2F7632
- 2785 U. S. FOREST SERV. Ranger 'rithmetic for sixth grade teachers, by C. W. Mattison and G. Vitas. Washington, 1948. 10 p. 1.962 A2R16  
Teaching forest conservation.
- 2786 WOODS, J. B. Biltmore days. Amer. Forests 54: 452-453, 469-470. Oct. 1948. 99.8 F762  
Biltmore Forest School.

#### Forest Engineering

- 2787 HOLDER, W. Bituminous surface on main log hauling roads. Pulp & Paper Mag. Canada 49(10): 146, 148. Sept. 1948. 302.8 P96  
Discussion, by N. W. McLeod, p. 153, 155.

#### Forest Influences

- 2788 LIEBERMAN, J. A., and HOOVER, M. D. Uncontrolled logging damages water quality. J. Forestry 46: 773. Oct. 1948. 99.8 F768
- 2789 MUNNS, E. N. Our forests and watersheds. Sci. Monthly 67: 347-354. Nov. 1948. 470 Sci23
- 2790 ROSAYRO, R. A. DE. Forests and erosion—with special reference to Ceylon. Trop. Agr. [Ceylon] 103: 246-252. Ref. Oct./Dec. 1947. 26 T751
- 2791 STRELE, G. Über die beziehungen zwischen wald und klima. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 126-128. Ref. Aug. 1948. 99.8 AL53

#### Wildlife

- 2792 SHAW, R. W. Wildlife and the forests. Wildlife in N. C. 12(6): 8-10. Oct. 1948. 279.8 N812



2793 SWIFT, L. W. Management of national forest lands for wildlife. Washington? U. S. Forest Serv., 1948. 5 p. 1.962 W2Sw5

2794 VIDAL, J. J. La vida silvestre. Aberdeen Angus [Buenos Aires] 1948(39): 18-20, 22. Winter 1948. 43.8 Ab33

## ANIMAL INDUSTRY

### BREEDS AND BREEDING

2795 ASDELL, S. A. The future of the science of animal breeding. Cattleman 35(5): 40, 42, 44. Oct. 1948. 45 C29

2796 CUNNINGHAM, W. A. Artificial insemination—the application of science to farming. Rur. Bank N. S. Wales. Farm Front 6: 121-125. Aug. 1948. 281.9 R883

2797 DIEBEN, C. P. A. Import of breeders. (In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 55(1/2): 29-34. Apr. 1948. 41.8 V51

2798 DOBIGNIES, J. La France au premier rang dans la technique de l'insémination artificielle. J. de la France Agr. 4: 893. Sept. 3/9, 1948. 14 J829

2799 EVANS, O. R. Quebec's new breeding centre. Family Herald & Weekly Star 79(34): 3. Aug. 25, 1948. 7 F21

Artificial insemination.

2800 GEROSA, G. Artificial insemination and sterility. (In Italian.) Riv. di Zootec. 21: 202-203. June 1948. 49 R52

2801 GIEDOSZ, B. About vitamin E. Is it a so called synprolan? (In Polish.) Med. Wet. 4: 355-357; 417-419. June-July 1948. 41.8 M463

Effect on fertility in animals.

2802 MANN, T. Fructose content and fructolysis in semen. Practical application in the evaluation of semen quality. J. Agr. Sci. [London] 38: 323-331. Ref. July 1948. 10 J822

2803 OLRICK, V. Artificial breeding in Denmark. Family Herald & Weekly Star 79(34): 4. Aug. 25, 1948. 7 F21

2804 QUITTET, and PICARD. Les coopératives d'insémination artificielle. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 219-227. 1948. 280.29 C761929

2805 RINGLER. Die stierhaltung nach der währungsreform. Allgauer Bauernbl. 16: 171. July 22, 1948. 18 AL53

2806 ROELOFS, E. T. Erfelijkheid en fokkerij [Hereditary and stock-breeding]. Assen, Van Gorcum, 1948. 92 p. 43 R62

2807 SANDERSON, C. J. Artificial insemination of stock. Land [Sydney] 1917: 18. Aug. 6, 1948. 23 L22

2808 SMITH, H. H. Fifty years of livestock breeding. West. Farm Life 50(17): 7, 12, 13. Sept. 1, 1948. 6 R153

2809 TUYERAS, P. La consanguinité et ses effets dans les élevages. Paysan Franç. 24(368): 5. Aug. 1948. 14 P29

2810 VOLOSKOV, P. A. Stages of development in artificial insemination of farm animals. (In Russian.) Veterinariia 25(5): 21-24. May 1948. 41.8 V6426

2811 WOLF. Zucht auf konstitution, das gebot der kommenden sparsamen zeiten! Allgauer Bauernbl. 16: 169-171. July 22, 1948. 18 AL53

Livestock breeding.

### FEEDS AND FEEDING

2812 ANDERSSON, Y. Silage—a good way of preserving feed potatoes. (In Swedish.) Lantmannen 32: 656-657. Oct. 2, 1948. 11 L234

2813 ALLEN, D. Legume weeds nourish Cape herds. Veld Trust News 4(11): 10-12. Aug. 1948. 56.8 V54

Union of South Africa.

2814 ARISTIZABAL ESTRADA, J. La alimentación, problema básico de la ganadería colombiana. Agr. Trop. 4(6): 35-37. June 1948. 26 Ag8

2815 ASHTON, G. C. Turn your beet-tops to profitable use. Milling & Feed 29(9): 14, 17. Sept. 1948. 298.8 C162

As feed.

2816 AXELSSON, J. Concentrated feed and straw fodder. (In Swedish.) Ladugården 1947: 107-108. Oct. 1947. 44.8 L12

Discusses also hay as feed.

2817 AXELSSON, J., and ERIKSSON, S. Determination of dry content of grass crops to be dried for silage. (In Swedish.) Lantmannen 32: 562-563. Aug. 21, 1948. 11 L234

2818 AXELSSON, J. Preservatives in silage manufacture. (In Swedish.) Ladugården 1947: 69-70. Aug. 1947. 44.8 L12

2819 AXELSSON, J. Silage manufacture with and without preservatives. (In Swedish.) Ladugården 1948: 129-130. July 1948. 44.8 L12

2820 BECKER, M. Verbesserung der ernährungsgrundlage von mensch und tier. Neue Mitt. f. die Landw. 3: 88. Mar. 21, 1948. 18 N39

2821 BERNARD, P. Comment produire plus de viande? Un aliment économique: l'herbe. Monit. Agr. 1 (27): 2. (Concl.) July 18, 1948. 14 M744

2822 BILSTON, K. W. When to feed, what to feed, and how much to feed profitably. Live Stock B. 42: 2, 52, 54. Aug. 2, 1948. 23 F222

2823 BLIN, H. La cuisson des pommes de terre, avec fourrages, en silo. Agr. Prat. 112: 273. Aug. 1948. 14 J82

2824 BROZZETTI, P. Digestibility and nutritive value of the residues from oil extraction of tobacco seed. (In Italian.) Tabacco 52: 178-190. (Concl.) Ref. June 1948. 69.8 T115

English, French and German summaries.

2825 BUICE, G. D., and BROOKS, O. L. Winter grazing for mountain counties of Georgia. Ga. Agr. Expt. Sta. Press B. 600, 2 p. Aug. 5, 1948. 100 G29P

2826 CALLER, F. Ensilage gives best feed yield. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige 18(39): 1. Sept. 25, 1948. 11 J762

2827 CANO, A. E. Suplementos protéicos en la alimentación del ganado. Soc. Rur. de Rosario. Rev. 27(317/318): 93-99. July/Aug. 1948. 9 So14

2828 CASA PACHECO, MARQUES DE. La ganadería y su alimentación. Ganadería [Madrid] 6: 314-315. June 1948. 49 G15

2829 CASE, L. I. Pastures make profits on beef cattle, sheep, and hogs. Prog. Farmer, Car.-Va. Ed. 63(10): 15, 125, 128. Oct. 1948. 6 P945

2830 CAVINA, R. Preservation of green forage. (In Portuguese.) Agronomia [Rio de Janeiro] 7(1): 53-54. Jan./Mar. 1948. 9.2 Ag892

In silos.

2831 CIOFFI, R. M. Digestibility "in vitro" in feed cakes. (In Italian.) Alimenti 4: 154-155. July/Aug. 1948. 389.8 AL44

2832 CLEMARES MIRALLES, E. La harina de banana en ganadería. Cult. Mod. 31: 287. Aug. 1948. 15 C89

2833 CLOSE, T. A discussion of minerals and vitamins. II. Amer. Natl. Fur & Market J. 27(4): 9, 17, 28-29. Nov. 1948. 412.629 Am3M

2834 EASTERBROOK, L. F. More food from grass in U. K.; interesting developments. Land [Sydney] 1914: 9, 19. July 16, 1948. 23 L22

2835 FABRIS, A. Overcoming protein deficiency in livestock feeding. (In Italian.) Humus 3(8): 7-9. Aug. 1947. 16 H88

2836 FEEDING corn cobs. Farm Q. 3(3): 76-80, 140, 141, 143. Autumn 1948. 6 F22995

2837 FERGUSON, J. A sweet new protein. Calif. Dairyman 28(16): 15-17. Sept. 11, 1948. 44.8 C12

Also in Pacific Stockman 14(10): 22-23. Oct. 1948

286.85 W52

2838 FYRILEIV, E. Ensilage of potatoes. (In Norwegian.) Norsk Landbr. 14: 326-329. Sept. 3, 1948. 11 N8122

2839 GRIFFITHS, M. A.I.V.—the foolproof silage. Farmers Weekly [London] 29(12): 41. Sept. 17, 1948. 10 F2226

2840 GROOT, H. DE. Silage manufacture from grass and potatoes. (In Dutch.) Friesch Landbouwblad 45(34): 3. Aug. 20, 1948. 12 F91

2841 GUERANDE, C. Le problème alimentaire en automne. Rustica 21: 641. Sept. 12, 1948. 14 R92

Livestock.

2842 HAND, C. H. Livestock in Tasmania; nutrition and health. Tasmanian Fruitgrower & Farmer 24 (302): 13. Aug. 1948. 23 T185



- 2843 HARLE, P., and WOTTLING, H. Alimentation rationnelle du bétail. *Terre Maroc* 17: 357-360. (Cont.) Sept. 1947. 24 T44
- 2844 HAYWARD, D. E. H. Transhumance in southern Norway. *Scot. Geog. Mag.* 64: 71-80. Sept. 1948. 472 Sco8
- 2845 HELMENIUS, A. Planning winter feeding. (In Swedish.) *Ladugården* 1947: 123-124. Nov. 1947. 44.8 L12
- 2846 HOLMSTRÖM, S. Mineral requirements in winter feeding. (In Swedish.) *Ladugården* 1947: 125. Nov. 1947. 44.8 L12
- 2847 HOMB, T. Feeding experiments with Beckmann-treated straw. (In Norwegian.) *Norges Landbrukshøgsk. Meld.* 28: 277-365. Ref. 1948. 104 N762M
- 2848 JARL, F. Judging quality of silage. (In Swedish.) *Ladugården* 1948: 83-84. May 1948. 44.8 L12
- 2849 JARL, F. The stability of carotene in hay during storage. (In Swedish.) *K. Lantbruksakad. Tidskr.* 87: 187-198. 1948. 104 Sw3  
English summary.
- 2850 JOHNSON, E. P. The importance of minor elements in animal and poultry nutrition. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 67-68. 1948. 500 V81
- 2851 KALMAN, J. Saving the other half. *Farmers Weekly [London]* 29(15): 40. Oct. 8, 1948. 10 F2226  
Silage from sugar beet tops.
- 2852 KULCKE, Wohin mit dem grünfutter? *Landw. Wechnbl.* 138: 197. Aug. 14, 1948. 18 L2338
- 2853 LERY, G. Le sérum dans l'alimentation du bétail. *Tech. Lait.* 4(42): 11-14. Ref. Sept. 8, 1948. 44.8 Of2
- 2854 LOMNITZ-WALDHOF. Vitamin C im futter unserer tiere. I-II. *Kurzbriefe f. Ernähr. u. Landw.* 7, A III 2a, 8 p; 8, A III 2a, 8 p. July-Aug. 1948. 281.8 K96
- 2855 MCDONALD, C. W. Approximate feed requirements for livestock. *Iowa. State Col. Agr. Ext. Pam.* 121, 4 p. June 1947. 275.29 Io9Pa
- 2856 MANGOLD, E., and COLUMBUS, A. Wie weit greift die schweinmast in den unmittelbaren nahrungsbereich des menschen über? *Tierzucht* 2: 49-57. Ref. Apr./May 1948. 49 T443
- 2857 MORRISON, F. B. Good roughages solve most protein troubles. *Idaho Farmer* 66: 748. Oct. 21, 1948. 6 G282  
The first of three articles on livestock feeding.
- 2858 NORDFELDT, S. Potatoes is a feed rich in energy. (In Swedish.) *Lantmannen* 32: 639-640. Sept. 25, 1948. 11 L234
- 2859 NORRIS, L. C. Work of [National] Research Council. *Flour & Feed* 49(6): 14-15. Nov. 1948. 298.8 F66  
Livestock nutrition research.
- 2860 OLSEN, L. Higher profits through feeding. *U & I Cult.* 8(2): 16-17. Sept. 1948. 66.8 V12
- 2861 OSTOYA, P. L'ensilage doit sauver les fourrages tout en les améliorant. *Monit. Agr.* 1(30): 13. Aug. 8, 1948. 14 M744
- 2862 PELLETIER, J. R. Le silo et les ensilages. *Québec Lait.* 7(9): 16, 18. Sept. 1948. 44.8 Q3
- 2863 PIANA, G. Use of antithyroid drugs in animal industry for fattening purposes. (In Italian.) *Humus* 4: 14-19. Ref. Jan. 1948. 16 H88
- 2864 PRESTHEGGE, K. Forest waste and other substitutes as an aid in the feed shortage. (In Norwegian.) *Norsk Landbr.* 14: 111-114. Mar. 19, 1948. 11 N8122
- 2865 REAVES, P. M. The effect of the vitamin content of the feed on the vitamin content of dairy products. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 68. 1948. 500 V81
- 2866 ROF CODINA, J. La sal común, su importancia y aplicaciones. *Cult. Mod.* 31: 260-262. July 1948. 15 C89  
In animal and human nutrition.
- 2867 RÖTEN, E. Fruits à pépins et marcs de fruits utilisés comme fourrage. *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 4: 57-59. Aug. 1948. 17 J82A
- 2868 SCHAEFER, H. C. Alfalfa as a source of carotene. *Flour & Feed* 49(6): 16-17. Nov. 1948. 298.8 F66
- 2869 SCHEUNERT. Vitaminversorgung der landwirtschaftlichen haussäugetiere. *Neue Mitt. f. die Landw.* 3: 263-264. Sept. 5, 1948. 18 N39
- 2870 SCHREIBER, R. Sicherungszusätze für die gärfutterbereitung. *Neue Mitt. f. die Landw.* 3: 273. Sept. 5, 1948. 18 M39
- 2871 STEENSBERG, V. Recent developments in silage-making in Denmark. *Empire J. Expt. Agr.* 16: 155-162. Ref. July 1948. 10 Em7
- 2872 STIELTJES, A. Note sur la valeur nutritive du tourteau d'hévéa. *Marseille. Inst. Colon. Cahiers Colon., n. s.,* 1947(2): 35. Nov. 1947. 286.8 M35  
In animal nutrition.
- 2873 STIELTJES, A. A propos de l'alimentation du bétail. *Marseille. Inst. Colon. Cahiers Colon., n. s.,* 1947(3): 23. Dec. 1947. 286.8 M35
- 2874 TRIOLA, P. DE LA. Ensilage de los forrajes. *Cult. Mod.* 31: 218. June 1948. 15 C89
- 2875 ULVESLI, O., and FYRILEIV, E. Preliminary investigations with ensiling of crushed aftermath. (In Norwegian.) *Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Fôringslære. Særtrykk* 56, 6 p. Oslo, 1947. 389.79 N76  
English summary.  
Second growth of grass.
- 2876 ULVESLI, O. The quality of Norwegian hay in 1947. (In Norwegian.) *Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Fôringslære. Særtrykk* 61, 11 p. Oslo, 1947. 389.79 N76  
English summary.
- 2877 USUELLI, F. Considerations on "maintenance rations." (In Italian.) *Humus* 4: 13. Jan. 1948. 16 H88  
Livestock.
- 2878 USUELLI, F. Notes on the mineralization of livestock rations. (In Italian.) *Humus* 4(2): 5-9. Feb. 1948. 16 H88
- 2879 VAZQUEZ ALTAMIRANO, J. La influencia del yodo en la ganadería. *Agr. Costarricense* 6: 113-114. 116-118. May/June 1948. 8 Ag895
- 2880 WHITE, W. T. Range planning produces results in increased calf crop, adequate feed supply, labor saving. *Mont. Farmer-Stockman* 35(24): 7-8. Aug. 15, 1948. 6 M764
- 2881 WINQVIST, G. Prevent freezing of AIV-feed. (In Swedish.) *Ladugården* 1947: 141. Dec. 1947. 44.8 L12
- 2882 WILSON, J. K. Changes occurring in silage as effected by salt. *Amer. Soc. Agron. J.* 40: 901-907. Ref. Oct. 1948. 4 Am34P
- 2883 WOODS, C. N. Would stockmen sacrifice their home on the range? *J. Forestry* 46: 771-773. Oct. 1948. 99.8 F768

## VETERINARY MEDICINE

- 2884 AINSWORTH, G. C. Fungous diseases of animals in Britain. *Vet. Rec.* 60: 405-406. Aug. 21, 1948. 41.8 V641
- 2885 ANTIPIN, D. N. Pasture prophylaxis of helminthiasis in farm animals. (In Russian.) *Veterinariia* 25(4): 38-40. Apr. 1948. 41.8 V6426
- 2886 BAGUÉ, J. Breviario terminológico de zootecnia y veterinaria. *Almanaque Agr. de Puerto Rico* 1947: 257-337. Ref. 8 AL62
- 2887 BENBROOK, E. A., and SLOSS, M. W. Veterinary clinical parasitology. Ames, Iowa State Col. Press, 1948. 187 p. Ref. 436 B433V  
Contents: Fecal examination in the diagnosis of parasitism; Skin examination for evidence of parasitic mites; The diagnosis of lice infestations.
- 2888 BOER, E. DE. Anthrax vaccine and the variability of *Bacillus anthracis*. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 137-143. Ref. Aug. 1947. 41.8 V51  
English summary.
- 2889 BOER, E. DE. Avirulent anthrax vaccine. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 203-207. Oct. 1947. 41.8 V51  
English summary.
- 2890 BOIARSHINOV, P. K. Tables for preparing [disinfecting] solutions of calcium hypochlorite. (In Russian.) *Veterinariia* 25(5): 39-42. May 1948. 41.8 V6426
- 2891 BUENO, P. Diseases common to animals and man. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(334): 20-22. July 1948. 9.2 B733
- 2892 CAMAND. Prophylaxie de la fièvre aphteuse. *Terre Maroc* 17: 411-412. Nov. 1947. 24 T44
- 2893 CARNE, H. R. The aims and functions of veterinary science. *Austral. Vet. J.* 24: 166-171. July 1948. 41.8 Au72



- 2894 CLER, G. O. Sintomatología de la rabia en los distintos animales domésticos. Fed. Argentina de Coop. Tamberas Rev. 8(85): 59, 61-62, 64. Aug. 1948. 280.28 F31
- 2895 COFFEE, W. M. Anesthesia and restraint of large animals. (Abs.) Tex. Vet. B. 10(8): 3. Aug. 1948. 41.8 T31
- 2896 COFFIN, D. L. Diagnoses of diseases of the urinary tract. (Abs.) Tex. Vet. B. 10(8): 4. Aug. 1948. 41.8 T31
- 2897 COLLINS, J. H. The present status of penicillin in veterinary medicine. Amer. Vet. Med. Assoc. J. 113: 330-333. Oct. 1948. 41.8 Am3
- 2898 COMAR, C. L. Radioisotopes in nutritional trace element studies. II. Techniques are presented for the study of cobalt and manganese metabolism in animals, with a review of results to date. Nucleonics 3(4): 30-42. Ref. Oct. 1948. 334.8 N88
- 2899 CUNNINGHAM, I. J. Photosensitivity diseases in New Zealand. V. Photosensitization by St. John's wort (*Hypericum perforatum*). New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 29: 207-213. Dec. 1947. 514 N48A
- 2900 DIEGO, A. I. DE. Las enfermedades infecciosas. Aberdeen Angus [Buenos Aires] 1948(39): 78-80. Winter 1948. 43.8 Ab33
- 2901 DISQUE, N. Know what livestock losses cost you; farmers will benefit from new and accurate plan for finding how many head of livestock die each year. Successful Farming 46(10): 172, 174. Oct. 1948. 6 Su12
- 2902 DRIEUX, H., and THIERY, G. Les tumeurs du placenta chez les animaux domestiques. Rev. de Path. Compar. 48: 445-452. Ref. Aug. 1948. 448.8 R326
- 2903 ELSDEN, S. R., and PHILLIPSON, A. T. Ruminant digestion. Ann. Rev. Biochem. 17: 705-726. Ref. 1948. 381 An7
- 2904 ERICKSON, A. E. The small hospital in general practice. (Abs.) Tex. Vet. B. 10(8): 3. Aug. 1948. 41.8 T31
- 2905 FIDLER, C. E. Prevents economic loss; regulations and orders formulated for control of all contagious and infectious diseases of livestock. Ill. Dept. Agr. Ann. Rpt. 30: 161-180. 1947. 2 IL6R
- 2906 FIELITZ LANDIVAR, F. O. Embriogenia comparada: animales y vegetales. Agros (ser. 8) 9(3): 73-89. Oct. 1947. 9.9 Ag82
- 2907 FLÜCKIGER, G. International organization for the control of epizootics. (In Italian.) Schweiz. Arch. f. Tierheilk. 90: 473-483. Sept. 1948. 41.8 Sch9
- 2908 FREUND, J., LIPTON, M. M., and PISANI, T. M. Immune response to rabies vaccine in water-in-oil emulsion. Soc. Expt. Biol. & Med. Proc. 68: 609-610. July/Aug. 1948. 442.9 Sol
- 2909 GEROSA, G. The cause and losses from sterility in domestic animals. (In Italian.) Humus 3(8): 22-24. Aug. 1947. 16 H88
- 2910 GORET, P., and JOUBERT, L. Conceptions actuelles et hypothèses sur l'infection et l'immunité. Rev. de Path. Compar. 48: 399-415. (To be cont.) Aug. 1948. 448.8 R326
- 2911 HENDERSON, W. M. Some observations on the quantitative study of vesicular stomatitis virus. J. Compar. Path. & Ther. 58: 172-178. July 1948. 41.8 J82
- Disease of horses, cattle and swine.
- 2912 HOEKSTRA, P. Report on an official journey to Bangka to make a survey of veterinary conditions. (In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 54: 79-92. June 1947. 41.8 V51
- 2913 HOFLUND, S., and KOFFMAN, M. On parasitic diseases in our most common domestic animals and their control. I. Sulftalyl, an effective preparation against coccidiosis. (In Swedish.) Sweden. Veterinärhögsk. Meddel. 21: 129-153. 1947. 41.9 St6M
- English summary.
- 2914 HOFLUND, S. The rumen - a factory where rough feed is refined. (In Swedish.) Ladugården 1948: 19-21. Feb. 1948. 44.8 L12
- 2915 HVIDSTEN, H. The fermentation of carbohydrates in stomach in ruminants. (In Norwegian.) Tidsskr. for det Norske Landbr. 1948: 87-108. Ref. May/June 1948. 11 T433
- 2916 ISNARD, J. P. Désirez-vous que votre vétérinaire devienne un fonctionnaire? J. de la France Agr. 4: 889. Sept. 3/9, 1948. 14 J829
- 2917 IVERSEN, M. Distribution and control of trichinosis in Norway. (In Norwegian.) Norsk Vet. Tidsskr. 60: 303-309. Aug. 1948. 41.8 N81
- English summary.
- 2918 JENNINGS, D. C. Cancer kills live stock, too. West. Live Stock 34(2): 66-67. Sept. 1948. 49 W523
- 2919 JONES, E. E. The use of diagnostic laboratories. (Abs.) Tex. Vet. B. 10(8): 5. Aug. 1948. 41.8 T31
- 2920 KESTER, W. O., and MILLER, E. B. Veterinary aspects of atomic explosion. Amer. Vet. Med. Assoc. J. 113: 325-329. Oct. 1948. 41.8 Am3
- 2921 KIRK, H. Electro-therapy. Vet. Rec. 60: 441-445. Sept. 11, 1948. 41.8 V641
- 2922 KIRKSEY, G. Report on foot and mouth disease in Mexico. Amer. Brahman J. 3(6 i.e. 7): 9, 11. Oct. 1948. 43.8 Am33
- Similar titles in West. Live Stock 34(2): 75, 78. Sept. 1948. 49 W523; Natl. Live Stock Prod. 27(2): 8. Nov. 1948. 280.38 N21
- 2923 KORNIEENKO-KONEVA, Z. P., and others. Treatment of Haemosporidia, in small stock, with LP<sub>2</sub> and with intra muscular injection of flavacridine. (In Russian.) Veterinariia 25(3): 16. Mar. 1948. 41.8 V6426
- M. O. Orekhov, N. G. Nikitin, and I. F. Borisov, joint authors.
- 2924 LAMBERT, P. S. The development of the stomach in the ruminant. Vet. J. 104: 302-310. Sept. 1948. 41.8 V643
- 2925 LANEVILLE, R. Delta County [Colorado] goes after Bangs control. West. Farm Life 50(18): 6, 15. Sept. 15, 1948. 6 R153
- 2926 LAPAGE, G. Some aspects of British veterinary parasitology. Brit. Sci. News 1(11): 11-12. 1948. 472 B77
- 2927 LÓPEZ Y LÓPEZ, C. La guerra microbiana. Ganadería [Madrid] 6: 292-294. June 1948. 49 G15
- 2928 LUQUE F., G. Medicina veterinaria y ganadería en Argentina, Uruguay y Brasil. Rev. de Med. Vet. y Zootec. 17: 89-92, 94-97. Mar./July 1948. 41.8 R3214
- 2929 MCCUNN, J. The clinical examination of the nervous system. Vet. Rec. 60: 427-430. Sept. 4, 1948. 41.8 V641
- Discussion, p. 430-433.
- 2930 MCILROY, R. J. The chemistry of the polysaccharides. New York, Longmans, Green, 1948. 118 p. 387.1 M182
- Contains a chapter on animal and plant metabolism.
- 2931 MERCK AND COMPANY. Pharmacological activity and clinical use of sulfanilamide, sulfathiazole and sulfapyridine in veterinary medicine. Rahway, N. J., 1948. 48 p. Ref. 396 M53Pha
- 2932 NADVORNIK, F. The functions of the official, municipal (event. county) veterinarian and the practitioner. (In Czech.) Časopis Českoslov. Vet. 3: 500-503. Sept. 10, 1948. 41.8 C27
- 2933 NETHERLANDS. DIRECTIE VAN DEN LANDBOUW. VEEARTSENJKUNDIGE DIENST. Report on the activities of the Veterinary Service on livestock health in 1944 and 1945. (In Dutch.) 's-Gravenhage, 1948. 39 p. 41.9 N383V
- 2934 NILAKANTAN, P. R. Contagious abortion in farm animals. Indian Farming 9: 104-106. Mar. 1948. 22 In283
- 2935 O'BRIEN, D. L. The relationship of animal health to agricultural economy. Tasmanian J. Agr. 19: 139-140. Aug. 1948. 23 T182T
- 2936 OLSEN, O. W. Stages in the life cycle of the common liver fluke [*Fasciola hepatica*]. Cattleman 35(5): 29-30. Oct. 1948. 45 C29
- 2937 ORLOV, I. V. Eradication; theoretical principles of helminthiasis control in farm animals in U. S. S. R. (In Russian.) Veterinariia 25(5): 4-6. May 1948. 41.8 V6426
- 2938 ORTLEPP, R. J. Phenothiazine: a remedy for internal parasites. Farming So. Africa 23: 400-402. June 1948. 24 So842
- 2939 PARNAS, J., and KAWECKI, Z. From the case histories of W.Z.H.W. (District Veterinary Institute of Hygiene). (In Polish.) Med. Wet. 4: 360-361; 430-431. June-July 1948. 41.8 M463
- 2940 PATIÑO PATIÑO, A. La pretendida enfermedad de las alturas en la sabana de Bogotá. Rev. de Med. Vet. y Zootec. 17: 51-64. Mar./July 1948. 41.8 R3214
- 2941 PHILLIPSON, A. T. The process of digestion in the ruminant. Brit. Sci. News 1(11): 8-10. 1948. 472 B77



- 2942 PICHON, G. La vaccination, la vaccinothérapie stock-vaccins, auto-vaccins. Mouton 2: 67-68. June 10, 1947. 45.8 M86  
Animals.
- 2943 POTTER, V. R., LEPAGE, G. A., and KLUG, H. L. The assay of animal tissues for respiratory enzymes. VII. J. Biol. Chem. 175: 619-634. Ref. Sept. 1948. 381 J824
- 2944 QUIN, A. H. New developments in the fields of veterinary therapeutics and immunology. Iowa Vet. 19(5): 9-12. Sept./Oct. 1948. 41.8 I09
- 2945 RAMON, G., and RICHOU, R. L'action des cultures de *B. subtilis* sur la bactériémie explique maintenant certains incidents survenus jadis dans la pratique de la vaccination charbonneuse. Rev. d'Immunol. 12: 131-134. Ref. 448.8 R323
- 2946 RAUTMANN, H. Die lebensvorgänge im gesunden und kranken tierkörper. Berlin, Buch und Bild, 1947. 375 p. 446 R192
- 2947 REFAIT, R. La broncho-pneumonie vermineuse. Paysan Franç. 24(368): 5-6. Aug. 1948. 14 P29
- 2948 ROGERS, W. P. The integration of biological chemical and pharmacological investigation in the search for efficient anthelmintics. Austral. Vet. J. 24: 220-225. Ref. Aug. 1948. 41.8 Au72
- 2949 ROTTGARDT, A. A., and EZCURRA, R. Proceso evolutivo de la fiebre aftosa. II. Argentina. Dir. de Inform. P. Misc. 283, 17 p. Buenos Aires, 1948. 9 P943
- 2950 SALA, A. Errors in animal feeding, and infectious diseases. (In Portuguese.) Rev. dos Criadores 19(4): 35-37. Apr. 1948. 43.8 R32
- 2951 SALES, P. S. Four decades of disease control and animal production. Agr.-Com.-Indus. Life 10(7): 4-5, 26, 31. July 1948. 25 Ag8  
In the Philippines.
- 2952 SARMIENTO B., U. Política de sanidad animal en el Perú. Lanares y Lanás 3(10/11): 15-19. Jan./June 1948. 45.8 L22
- 2953 SCHEIDENHELM, E. C. Bang's disease control. N. J. Farm & Gard. 19(10): 15, 74. Oct. 1948. 6 G162
- 2954 SCHMID-LAMBERG, H. Erfahrungen mit der viehtuberkulose im heutigen Deutschland. Schweiz. Arch. f. Tierheilk. 90: 524-527. Sept. 1948. 41.8 Sch9  
Livestock.
- 2955 SCHRECK, H. Reflections on the planning of small animal hospitals. Vet. Med. 43: 415-428. Oct. 1948. 41.8 M69
- 2956 SEEKLES, L. Pure and applied science in veterinary medicine. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 677-679. Sept. 1/15, 1948. 41.8 T431
- 2957 SEETHARAMAN, C., and SHARMA, G. L. Viruses and common virus diseases of domestic animals. Indian Farming 9: 107-109. Mar. 1948. 22 In283
- 2958 SEVILLE, H. La contagion humaine de la fièvre-aphteuse. Acclimatation 75: 178. Aug. 21, 1948. 14 Ac2
- 2959 SHARAF, A. A pharmacological study of the Egyptian plant, *Euphorbia peplus*. Vet. J. 104: 313-318. Ref. Sept. 1948. 41.8 V643  
Pharmacological action and toxicity to animals.
- 2960 SIMMS, B. T. The foot and mouth problem. Meat 29: 432-435. Oct. 1948. 286.85 M464
- 2961 SIMONPIETRI, R. H. Enfermedades de los animales recién nacidos. Chacra 18(215): 42-43. Sept. 1948. 9 C34
- 2962 SKRIABIN, K. I. Eradication—an important link in the chain of sanitary measures. (In Russian.) Veterinariia 25(4): 1-4. Apr. 1948. 41.8 V6426  
In the control of helminthiasis in livestock.
- 2963 SMITH, C. H. Large animal hospital practice. (Abs.) Tex. Vet. B. 10(8): 3. Aug. 1948. 41.8 T31
- 2964 SOUTHERN RHODESIA. CHIEF VETERINARY SURGEON. Report, 1947, 8 p. Salisbury, 1948. 41.9 S082
- 2965 STEPKOWSKI, S. Streptomycin. (In Polish.) Med. Wet. 4: 361-363. June 1948. 41.8 M463
- 2966 SUSSMAN, O. Veterinary public health in Arizona and along the international border. Ofic. Sanit. Panamer. B. 27: 741-747. Aug. 1948. 449.9 P192B  
Spanish summary.
- 2967 SWIERSTRA, D. Notes on echinococcosis. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 640-645. Aug. 1/15, 1948. 41.8 T431  
English summary.
- 2968 TAYLOR, E. L., and others. The present-day organisation of veterinary research in Great Britain: Its strengths and weaknesses. I-V. Vet. Rec. 60: 451-456, 461-462. Sept. 18, 25, 1948. 41.8 V641  
H. H. Holman, R. S. Roberts, and S. Jamieson, joint authors, I-IV; D. L. Hughes, joint author, V.
- 2969 THIERY, J. La fièvre aphteuse. Terre d'Oc 30: 288-292. July 1948. 14 Ar5
- 2970 THOMAS, A. Does Indiana need a school of veterinary medicine? Hoosier Farmer 33(9): 8-9. Sept. 1948. 280.82 H76
- 2971 TRAWINSKI, A., and BIDA, W. 16th session of the International Office of Epizootics from 3-8 May 1948. (In Polish.) Med. Wet. 4: 357-359. June 1948. 41.8 M463
- 2972 U. S. BUR. OF ANIMAL INDUSTRY. Enforcement of foot-and-mouth disease quarantine on the United States-Mexican border. Washington? 1948. 4 p. 1.972 A2En2
- 2973 U. S. BUR. OF ANIMAL INDUSTRY. Help protect the United States from foot-and-mouth disease. U. S. D. A. PA-46, rev., 6 p.-folder. Aug. 1948. 1 Ag84Pro
- 2974 U. S. BUR. OF ANIMAL INDUSTRY. Statement of indemnity claims and averages in cooperative Bang's disease eradication work, fiscal year 1948. Washington? 1948. 1 p. 1.972 A2St23
- 2975 U. S. BUR. OF ANIMAL INDUSTRY. Statistical tables showing progress of the eradication of tuberculosis in livestock and brucellosis in cattle in the United States. Washington, 1948. 10 p. 1.9 An533Stm
- 2976 USUELLI, F. Hormonal and nervous factors which explain the effects of the functional activity of the mammary gland. (In Italian.) Riv. di Zootec. 21: 195-200. June 1948. 49 R52
- 2977 VAGNEUR, J. D. The role of the veterinary practitioner in the public health program of his community. (Abs.) Tex. Vet. B. 10(8): 4. Aug. 1948. 41.8 T31
- 2978 VALLE GARIBÍ, E. DEL. Los nematelmintos en la agricultura y en la ganadería. 2. Chapingo 22: 7-11. June 1948. 102 C36
- 2979 VYSHELESSKIĬ, S. N. Achievements in Soviet epizootology for 30 years. (In Russian.) Veterinariia 25(3): 5-10. Mar. 1948. 41.8 V6426
- 2980 WARD, G. W. Inoculation of farm animals. Westralian Farmers' Co-op. Gaz. 12: 257, 259, 261. Oct. 1947. 280.28 W522
- 2981 WOODHOUSE, C. A. Observations on pathogenicity of *Strongyloides* parasites in ruminants. Amer. Vet. Med. Assoc. J. 113: 354-356. Oct. 1948. 41.8 Am3  
S. papillosus.
- 2982 ZHIKHAREV, A. A. Poisoning of farm animals. (In Russian.) Veterinariia 25(5): 35-39. May 1948. 41.8 V6426

## MISCELLANEOUS

- 2983 ADAIR, W. Farming in U.S.A. 1-4. Farming News and North Brit. Agr. 100(37): 2-3; (38): 3; (39): 3; (40): 3. Sept. 3-24, 1948. 10 N82  
1. Beef, not milk, is the paying branch; 2. World's largest farm research centre; 3. Efficiency in cattle stocks; a "dual-purpose" confession; 4. Test in crossing dairy breeds.
- 2984 ARÁN, S. El cine en ganadería; algunas reflexiones. Ganadería [Madrid] 6: 286-287. June 1948. 49 G15
- 2985 BERGESON, V. A. In the name of the law; brand inspection law enforcement requires cooperation, fast action on part of damaged party. Utah Farmer 68 (3): 6. Sept. 10, 1948. 6 D45
- 2986 BOISVERT, O. Les produits quaternaires d'ammonium (chlorure); germicides efficaces pour la sanitation et la désinfection. Avic. Québécois 3(8): 20-21. Aug. 1948. 47.8 Av55
- 2987 BREIREM, K. Expansion problems in animal research in Norway. (In Norwegian.) Norges Landbruksforsk. Inst. f. Husdyrernæring og Fôringslære. Særtrykk 53, 12 p. Oslo, 1947. 389.79 N76  
English summary.
- 2988 CHENG, S. C. Activities of the National Research Bureau of Animal Industry for the year 1947. China. Min. Agr. and Forestry. Misc. P. 1: 32-34. Apr. 1948. 22.5 C4412M



2989 DOPF, K. Die gute hand zur tierpflege. Osterr. Kleintierzüchter 1948: 417-418. Aug. 1948. 49 Os7

2990 ERIKSSON, K. Research problems and practical objectives in livestock hygiene. (In Swedish.) Ladugården 1948: 91-93, 107-108. June-July 1948. 44.8 L12

2991 FACHINI, G. Zootechnics and entomology at the Oxford Congress. (In Italian.) Humus 3(8): 25-26. Aug. 1947. 16 H88

2992 FERNÁNDEZ, M. A. Lo que hicimos los ganaderos españoles. Ganadería [Madrid] 6: 260-261. May 1948. 49 G15

2993 GARZÓN, B. Interpretación de un pedigree. Rev. de Agr. [Costa Rica] 20: 338-340. Sept. 1948. 8 Es1

#### Livestock.

2994 GERLAUGH, P. The place of livestock in Eastern agriculture and some related problems. Washington, U. S. Ext. Serv., 1948. 6 p. 1.913 A4P69

2995 HOGE, O. S. Brands. Wyo. Stockman-Farmer 54(9): 5. Sept. 1948. 6 W992

2996 HOLT, W. The PI tells a story of the West's biggest business. West. Livestock J. 26(54): 44, 56, 58, 60. Sept. 15, 1948. 6 F2278

Pacific International Livestock Exposition.

2997 KARIMOEN, C. Protection of native livestock in East Java. (In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 55(1/2): 75-80. Apr. 1948. 41.8 V51

2998 LINON, G. Le problème de l'identification des animaux destinés à l'abatage. Irrecevabilité de l'action en remboursement de prix par défaut d'identification de l'animal saisi. Rev. de Méd. Vét. [Toulouse] 99: 309-318. July 1948. 41.8 R32

2999 MANKER, E. Los lapones y su cria de renos. Rev. Geog. Amer. 30: 75-84. Aug. 1948. 475 R322

3000 MAULE, J. P. Animal husbandry in Cyprus and its improvement. Crown Colonist 18: 559-560. Oct. 1948. 280.8 C88

3001 NICKERL, A. Was jeder kleintierzüchter vom "ROK" wissen muss! Osterr. Kleintierzüchter 1948: 433-434. Sept. 1948. 49 Os7

3002 NORDFELDT, S. Effect of sunshine on livestock production. (In Swedish.) Ladugården 1947: 51-52. June/July 1947. 44.8 L12

3003 ORWIN, C. S. Livestock portraits and their painters. Young Farmer 16: 140-142. (Concl.) Sept./Oct. 1948. 10 Y8

3004 RITER, W. E. Predators taken by Fish and Wild Life Service in 54 out of 58 California counties total 11,329 for year ended June 30, 1948, as compared to 13,701 in 1947. Coyotes definitely on decrease. Calif. Wool Grower 4(36): 6-7. Sept. 7, 1948. 45.8 C12

3005 SHEALY, A. L. Plan stock management now. Fla. Grower 56(10): 22-23. Oct. 1948. 80 M72

3006 SHEALY, A. L. Science aids animal problems. Fla. Grower 56(10): 14, 19. Oct. 1948. 80 M72

3007 SWEDEN. LANTBRUKSHÖGSKOLAN. HUSDJURSFÖRSÖKSANSTALTEN. The animal husbandry research station, Ultuna, Uppsala 7, (Sweden). Lantbrukshögsk. HUSDJURSFÖRSÖKSANST. Meddel. 5C, 16 p. Norrtälje, 1948. 104 Up62

3008 WINNIGSTEDT. Die tierschau auf der ausstellung. Neue Mitt. f. die Landw. 3: 311-312. Oct. 5, 1948. 18 N39

#### CATTLE

##### Breeds and Breeding

3009 AERSØE, H. A new measure for the promotion of cattle breeding in Denmark. (In Swedish.) Ladugården 1948: 74-75. May 1948. 44.8 L12

##### Yield records.

3010 ANDERSON, W. N. Improving your Shorthorns. Shorthorn World 33(10): 294. Aug. 10, 1948. 43.8 Sh8

3011 AREY, J. A., and BROWN, J. F. Why artificial breeding? N. C. Agr. Col. Ext. Folder 73, 6 p. Aug. 1948. 275.29 N811Ex

##### Dairy cattle.

3012 ARMSTRONG, L. M. Stabilizing influence of Shorthorns. Shorthorn World 33(10): 257-259. Aug. 10, 1948. 43.8 Sh8

3013 BATTLES, O. V. Purebred breeding, vocation or avocation? Ayrshire Digest 34: 629, 664. Sept. 15, 1948. 43.8 Ay7

3014 BERTSCH, M. "Test tube" heifers making excellent milking records; Harrison Co., Ind., steps out in front with artificial insemination program. Prairie Farmer, Gen. Ed. 120(21): 54, 55. Oct. 9, 1948. 6 P883

3015 BONADONNA, A. Problems of artificial insemination in Italy. (In Italian.) Riv. di Zootec. 21: 192-194. June 1948. 49 R52

##### Chiefly cattle.

3016 BONSMMA, J. C. Increasing adaptability by breeding. Farming So. Africa 23: 439-452. July 1948. 24 So842

Reaction of different cattle breeds to climatic and other environmental conditions.

3017 BOWLING, G. A. Are Ayrshire breeders aiming at a single target? Ayrshire Cattle Soc. J. 20: 150-152. Oct. 1948. 43.8 Ay74

3018 BREIREM, K. Experiments in feeding of breeding bulls. (In Norwegian.) Norsk Landbr. 14: 310-312, 333-334. Aug. 20-Sept. 3, 1948. 11 N8122

3019 BRIQUET JUNIOR, R., and ABREU, J. DE. The period of gestation in Zebu breeds. I. Guzerat breed. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 219-236. Ref. July/Aug. 1948. 9.2 R324

##### Summary in English.

3020 BROCHART, M. Insémination artificielle et production animale en France. Interagra 2: 218-223. 1948. 28 In825

##### Cattle.

3021 BROOKS, H. J. Milk production by Brahman cattle in warm regions. (In Portuguese.) Fazenda 43 (9): 40-41, 60. Sept. 1948. 6 H11P

3022 BROWN, B. Better Holstein sires is aim of National Holstein Group. Livestock Weekly 2(46, sect. 1): 6. Sept. 23, 1948. 49 L753

The Holstein-Friesian Association of America.

3023 BROWNELL, S. J. Artificial breeding—not perfect, but forging ahead. Amer. Agr. 145: 517, 526. Oct. 2, 1948. 6 Am3

##### Dairy cattle.

3024 BRUCE, M. Are my cattle good enough to found a registered herd? Milking Shorthorn J. 29(9): 8. Sept. 1948. 43.8 M59

3025 BUNCE, E. W. New England States—a Guernsey fountain head. New England Homestead 121(18): 29, 36. Sept. 25, 1948. 6 N442

##### Dairy cattle.

3026 CANADIAN SHORTHORN ASSOCIATION. The Canadian Shorthorn herd book, containing the pedigrees of Shorthorn cattle, imported and Canadian bred. v. 57, 877 p. Owen Sound, 1948. 43.9 D71

3027 CARTER, J. Review of beef Shorthorns at the Maritime Winter Fair. Marit. Farmer & Co-op. Dairyman 54(2): 6. Oct. 19, 1948. 7 C77

3028 CASARES, V. R. El Holando Argentino. Chacra 18(215): 13. Sept. 1948. 9 C34

3029 CHAMBERS, E. E. Penicillin in the treatment of nonbreeding cows. North Amer. Vet. 29: 640-641. Oct. 1948. 41.8 N812

3030 CLARKE, R. T. Efficiency in beef production; the goal of purebred producers is to maintain and upgrade the 97 percent of our cattle inventory which is strictly commercial. Shorthorn World 33(12): 12, 64-67. Sept. 10, 1948. 43.8 Sh8

3031 CLODFELTER, G. I. Build farm around Shorthorns. Let the farm work for the cattle, the cattle for the farm, and they will both work for you. Shorthorn World 33(10): 138, 172. Aug. 10, 1948. 43.8 Sh8

3032 COLORADO. AGRICULTURAL AND MECHANICAL COLLEGE. Artificial breeding of dairy cattle. Colo. Agr. Col. Ext. C. 160-A, 4 p.-folder. July 1948. 275.29 C71C1

3033 CONTENSON, DE. Possibilités d'amélioration rapide du cheptel laitier. SPEL; B. Int. d'Inform. et de Doc. 2(12): 52-53. Dec. 1947. 44.8 Sp1

##### Artificial insemination.

3034 CONTESSE BACHELET, M. Mejoramiento del ganado lechero. Agrario 13(400): 5, 15. Apr. 1948. 9.3 Ag85

3035 COOPER, R. J. Trichomoniasis. The breeding record of a bull over two years known to be infected with Trichomonas foetus (str. Belfast). Vet. J. 104: 266-272. Aug. 1948. 41.8 V643

3036 CUENCA, C. L. DE. Resultados del primer experimento de transporte de material seminal de toro desde los Estados Unidos a Italia. Ganadería [Madrid] 6: 233-236. May 1948. 49 G15

3037 CULLITY, M. Artificial insemination and its possibilities for herd improvement in Western Australia. Farmers' Weekly [Perth] 2(5): 13-14; (6): 12-13. Aug. 12, 19, 1948. 23 F227

##### Dairy cattle.



- 3038 CURRIE, J. R. What makes a local [cattle] breed local? *Farmers Weekly* [London] 29(9): 35, 37. Aug. 27, 1948. 10 F2226
- 3039 DARLOW, A. E. The future depends on you; it is a privilege to engage in the breeding of purebred cattle but along with that privilege goes a responsibility that can not be evaded. *Shorthorn World* 33(10): 29, 158. Aug. 10, 1948. 43.8 Sh8
- 3040 DAY, G. E. Comments on [cattle] breeding methods. *Shorthorn News* 9(3): 9-10, 12. Sept. 1948. 43.8 Sh85
- 3041 DAY, G. E. Warnings and suggestions. To succeed you must have faith—a half-hearted attitude will land you exactly nowhere. *Shorthorn World* 33(10): 31, 316-318. Aug. 10, 1948. 43.8 Sh8
- Cattle breeding.
- 3042 DOMINGUES, O. Information on Indubrasil cattle. (In Portuguese.) *Agronomia* [Rio de Janeiro] 6: 239-243. Oct./Dec. 1947. 9.2 Ag892
- 3043 DOWLER, A. J. I breed my cows for long life. *Dairy Farmer* [Ipswich] 21(10): 16. Oct. 1948. 44.8 D1414
- 3044 DUER, R. No substitute for quality. *Shorthorn World* 33(10): 130, 184. Aug. 10, 1948. 43.8 Sh8
- 3045 EAGLE, M. R. Authority urges more promotion for Aberdeen-Angus cattle on a practical, range-man's level. *N. Mex. Stockman* 13(9): 48-49. Sept. 1948. 49 N462
- 3046 ECCLES, W. Forty acres and one Milking Shorthorn cow. *Milking Shorthorn J.* 29(10): 20-22. Oct. 1948. 43.8 M59
- 3047 ELLIOTT, F. I. Artificial breeding. *Carolina Farmer* 3(9): 18. Sept. 1948. 6 C223
- Dairy cattle.
- 3048 ERB, R. E., and SHAW, A. O. A summary of breeding failure. *Guernsey Breeders' J.* 74: 395, 428. Oct. 1, 1948. 43.8 G93
- 3049 FINCH, F. H. Cattle-breeding in northern Argentina and northern Australia. *Rev. River Plate* 104(2959): 15-18. (Concl.) Aug. 27, 1948. 286.8 R32
- 3050 FINDAHL, N. T. Your State association. A veteran breeder and efficient State worker analyzes goals in breed promotion and means of their attainment. *Shorthorn World* 33(10): 106, 287-292. Aug. 10, 1948. 43.8 Sh8
- 3051 FRANCIS, F. Provide permanent incentives. *Shorthorn World* 33(10): 265-267. Aug. 10, 1948. 43.8 Sh8
- Cattle breeding.
- 3052 FREDERIKSEN, A. M. Red Danish dairy cattle. (In Danish.) *Dansk Landbr.* 67: 356-357. (Cont.) Sept. 23, 1948. 280.28 V91
- 3053 GAUSTAD, M. Experiences and objectives in the artificial insemination work in Norway. (In Norwegian.) *Norsk Vet. Tidsskr.* 60: 290-302. Ref. Aug. 1948. 41.8 N81
- Cattle.
- 3054 GAY, C. W. A blueprint for beginners: the intelligent breeder should be able to forecast with reasonable accuracy the sort of cattle he will be producing ten years hence. *Shorthorn World* 33(10): 43-44, 319-321. Aug. 10, 1948. 43.8 Sh8
- 3055 GAY, C. W. The new Shorthorn pedigree form. It retains the greatest advantage of the outmoded form while overcoming the principal objection of incompleteness. *Shorthorn World* 33(14): 11, 65-67. Oct. 10, 1948. 43.8 Sh8
- 3056 GILMAN, R. A. Helping the young beginner. *Shorthorn World* 33(10): 263-264. Aug. 10, 1948. 43.8 Sh8
- Cattle breeding.
- 3057 GIRARD, La sélection de la race bovine Noir Pie à la Station d'Essai du Service de l'Élevage de Meknès. *Terre Maroc.* 17: 413-416. Nov. 1947. 24 T44
- 3058 GIULIANI, R. Fonction de la reproduction et moyens pour prévenir et combattre la stérilité dans la race bovine. *Riv. di Zootec.* 21: 183-191. June 1948. 49 R52
- Text in Italian and French.
- 3059 GOODELL, C. J. The heritage that is ours. *Shorthorn World* 33(10): 27, 157. Aug. 10, 1948. 43.8 Sh8
- 3060 GORDON, G. E. Artificial breeding of dairy cattle in California. *Calif. Farm Bur. Monthly, North.* Ed. 29(9): 36-37. Sept. 1948. 275.293 California
- 3061 GRISWOLD, T. Keep sire in breeding condition. Expert advice telling how to increase the efficiency and life of this "half" of your herd. *Shorthorn World* 33(10): 198-200. Aug. 10, 1948. 43.8 Sh8
- 3062 GROVER, P. K. Keep your records carefully. The knowledge and careful observance of the Association rules and regulations minimize problems of the new breeder. *Shorthorn World* 33(10): 206-210. Aug. 10, 1948. 43.8 Sh8
- 3063 HALSEY, J. E. Get the bull you need. *Shorthorn World* 33(10): 239-241. Aug. 10, 1948. 43.8 Sh8
- 3064 HARDING, F. W. Selling Shorthorns. *Shorthorn World* 33(10): 253-254. Aug. 10, 1948. 43.8 Sh8
- 3065 HERMAN, H. A. Keeping old bulls in service. *Hoard's Dairyman* 93: 683, 705. Sept. 25, 1948. 44.8 H65
- 3066 HERWEIJER, C. H. The Zebu cattle in America. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 197-199. Oct. 1947. 41.8 V51
- 3067 HIRSCH, D. E. Breeding takes financing too. *News Farmer Coops.* 15(7): 17. Oct. 1948. 166.2 N47
- Artificial breeding organizations for dairy cattle.
- 3068 HOLLARD, M. G. Dairy farming in New Zealand. VI-VII. *Lincoln Col. Rur. Ed. B.* 3(6): 14-20; (7): 2-11. July-Aug. 1948. 109 L63R
- VI. Breeding better dairy stock; VII. Progeny testing of dairy herd sires.
- 3069 HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA. Holstein-Friesian herd-book, containing a record of all Holstein-Friesian cattle approved and admitted for entry since the close of the last volume. v. 101, 1945/1946. 1563 p. Brattleboro, 1948. 43.9 H74
- 3070 HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA. The type and production year book of the Holstein-Friesian Association of America. v. 4, pts. 1-2. 3210 p. Brattleboro, 1948. 43.9 H74T
- 3071 HORN, P. Herefords first made showyard history at Kansas City about fifty years ago. *Amer. Hereford J.* 39(11): 36, 38, 40, 42. Oct. 1, 1948. 43.8 Am32
- 3072 HOUDELOT, C. La raza Normanda. *Canad. de Bolivar* 13(77): 13, 15-16. June 1948. 49 G152
- As a dual-purpose breed.
- 3073 HULTZ, F. S. Creep rather than leap; if the foundations are well laid the project has a good chance to succeed and grow, no matter how small the start. *Shorthorn World* 33(10): 30, 165-166. Aug. 10, 1948. 43.8 Sh8
- Cattle breeding.
- 3074 HUNSECKER, T., JR. Support your state Shorthorn Association. *Shorthorn World* 33(10): 218-220. Aug. 10, 1948. 43.8 Sh8
- 3075 HUTCHINSON, J. The hazards of grading-up. *Farmers Weekly* [London] 29(13): 39. Sept. 24, 1948. 10 F2226
- Dairy cattle.
- 3076 IMLAU, B. Be guided by customer's need. *Shorthorn World* 33(10): 254-256. Aug. 10, 1948. 43.8 Sh8
- Cattle breeding.
- 3077 INCHAUSPE, J. A. La raza Hereford. *Chacra* 18(215): 10. Sept. 1948. 9 C34
- 3078 KEYSER, B., and KEYSER, F. Troubles of an aerial exporter; getting Doddies to Jamaica has its problems. *Aberdeen-Angus J.* 30(3): 62-B, 63-64. Oct. 1948. 43.8 Ab3
- 3079 KIRENSKIĬ, G. Use of sinestrol in milking heifers and sterile cows. (In Russian.) *Veterinariia* 25(4): 42. Apr. 1948. 41.8 V6426
- 3080 KORKMAN, N. Twin births in cattle. (In Swedish.) *Ladugården* 1948: 75-76. May 1948. 44.8 L12
- 3081 KYGER, F. A. A Shorthorn show window. *Shorthorn World* 33(10): 268-273. Aug. 10, 1948. 43.8 Sh8
- 3082 LAMB, L. W. Should farmers breed high testers? *Amer. Dairy Cattle Club. Herd Breeder* 8(7): 5-6. July/Aug. 1948. 43.9 Am323H
- Also in *Amer. Agr.* 145: 464. Sept. 4, 1948. 6 Am3
- 3083 LANG, J. A. Infertility in dairy cattle. *Farming* [Norwich] 2: 282-284. Sept. 1948. 10 F2236
- 3084 LAPLAUD, M., and CASSOU, R. Recherches sur l'électro-éjaculation chez le taureau et le verrat. *Soc. de Biol. Compt. Rend.* 142: 726-727. June 1948. 442.9 P21
- 3085 LARSEN, E. Planned breeding of high grade cows. *Indian Farming* 9: 91-92. Feb. 1948. 22 In283



3086 LE ROI, D. Test tube pedigree. Milk Indus. 29(3): 38-40. Sept. 1948. 44.8 M593  
Artificial insemination of cows.

3087 LESBOUYRIES, G. Stérilité de la vache. Rec. de Méd. Vét. 124: 385-411. Sept. 1948. 41.8 R24

3088 MACLEOD, C. Shorthorns—best in every weigh! Shorthorn World 33(10): 122-125, 308-311. Aug. 10, 1948. 43.8 Sh8  
Includes shows and sales.

3089 MCWHORTER, H. Popular families—a public appraisal. Aberdeen-Angus J. 30(3): 47, 86-89. Oct. 1948. 43.8 Ab3

3090 MAULE, J. P. Breeding for milk in a Mediterranean environment. I. Dairy cattle. Empire J. Expt. Agr. 16: 119-133. Ref. July 1948. 10 Em7

3091 MEACHAM, W. S. Testing Jerseys for production. Livestock Weekly 2(46, sect. 1): 3. Sept. 23, 1948. 49 L753

3092 MEAD, S. W. Breeding experiments with dairy cattle. Calif. Dairyman 28(17): 21-22. Sept. 25, 1948. 44.8 C12

3093 MERCER, E. Wisconsin dairy cattle improve Guatemala stock; pure bred Holstein, Brown Swiss and Guernseys build more productive Central American herds. Wis. Agr. & Farmer 75(18): 8. Sept. 18, 1948. 6 W751

3094 MERZARI, A. H. La raza Holando-Argentino en la producción lechera. Chacra 18(215): 50, 153. Sept. 1948. 9 C34

3095 MILLAR, P. G. Infertility in dairy herds. Jersey Cow (n. s.) 19: 19-22. Spring 1948. 43.9 En3J

3096 MILLER, M. Importance of a good beef bull. Md. Farmer 32(8): 21, 25. Aug. 1948. 6 M362

3097 MOORE, G. R. Sterility in bulls. Jen-Sal J. 31(4): 4-5, 30. July/Aug. 1948. 41.8 J45

3098 MURRAY, A. O. A Polled Shorthorn heritage. Shorthorn World 33(10): 141, 144-145. Aug. 10, 1948. 43.8 Sh8

3099 NICHOLS, J. E. Improvement of British cattle. III. Breeding from unrelated animals. Farming [Norwich] 2: 233-236. Aug. 1948. 10 F2236

3100 OLINENA, G. DE. Apreciaciones sobre el ganado Pardo Suizo. Hacienda 43(10): 52-53, 70, 72. Oct. 1948. 6 H11

3101 PARKER, J. B. Cross-breeding experiment with dairy cattle. South. Planter 109(9): 20. Sept. 1948. 6 So89

3102 PENTECOST, E. L. C. Hot climate cattle; developing breeds which will thrive in the tropics. Field 192: 265. Sept. 4, 1948. 10 F45

3103 PENTECOST, E. L. C. New [cattle] breed in the making. Farmer & Stock-Breeder 62: 2189. Sept. 21, 1948. 10 F228  
Polled Lincoln Red Shorthorn.

3104 PETERS, W. H. Procedure in buying bull. Shorthorn World 33(10): 161. Aug. 10, 1948. 43.8 Sh8

3105 PETITDIDIER. La stérilité d'origine ovarienne chez la vache. Terre Maroc. 17: 455-457. Dec. 1947. 24 T14

3106 POU, J. W. Maryland Artificial Breeding Co-operative reaches new high. Md. Farmer 32(8): 17. Aug. 1948. 6 M362  
Cattle.

3107 PREMIUM bulls and boars. North. Ireland. Min. Agr. Rpt. 23: 136-138. Sept. 1948. 256.13 Ag82M

3108 RED POLL CATTLE SOCIETY OF GREAT BRITAIN AND IRELAND. The Red Poll herd book of cattle descended from the Norfolk and Suffolk Red Poll. v. 63. Ipswich, 1948. 638 p. 43.9 R24H

3109 REED, O. E. Breeding experiments with dairy cattle. Dakota Farmer 68(17): 6. Sept. 4, 1948. 6 D14

3110 REYNOLDS, F. Early western cattle improvement; the importation of Durham bulls inspired Englishmen to come west and invest their money in cattle ranches. Shorthorn World 33(12): 51-52, 61-62. Sept. 10, 1948. 43.8 Sh8

3111 RICE, V. A. Getting off on the right foot. Too many breeders stumble around without any definite aim—you must know where you are going if you would progress. Shorthorn World 33(10): 83, 168-169. Aug. 10, 1948. 43.8 Sh8

3112 RICHARDS, F. Angus herds throughout the West increasing in size and quality. N. Mex. Stockman 13(9): 55-57. Sept. 1948. 49 N462

3113 RICHARDSON, E. C. Red Danes still going strong; new breed of dairy cattle is raising production levels in more grade herds. Successful Farming 46(10): 188, 190-191. Oct. 1948. 6 Su12

3114 ROCKEFELLER, E. S. "Many littles make a mickle." Ten good small herds in your community may total one hundred head and working together you can accomplish much. Shorthorn World 33(10): 51, 312-313. Aug. 10, 1948. 43.8 Sh8

3115 RUPEL, I. W. What does crossbreeding offer? Prog. Farmer, Miss.-Ark.-La. Ed. 63(10): 19. Oct. 1948. 6 So81  
Dairy cattle breeding.

3116 RUSSELL, M. A bargain in dairy breeding. Colo. Rancher & Farmer 2(19): 1, 8. Oct. 9, 1948. 6 C714  
Artificial breeding.

3117 SALAS, T. La raza Shorthorn. Chacra 18(215): 8. Sept. 1948. 9 C34

3118 SALISBURY, G. W., and BRATTON, R. W. Fertility level of bull semen diluted at 1:400 with and without sulfanilamide. J. Dairy Sci. 31: 817-822. Sept. 1948. 44.8 J822

3119 SCHMOKER, E. A. Infertility in bulls. Calif. Dairyman 28(18): 10; (19): 23-25. Oct. 9, 23, 1948. 44.8 C12

3120 SCHNEIDER, B. H. Breed improvement in India. Brahman Breeder-Feeder 14(10): 11, 26-28. Oct. 1948. 43.8 B73

3121 SCHNEIDER, B. H. Cattle breeders can learn from wheat growers. Cattleman 35(5): 24-25, 71-75. Oct. 1948. 45 C29

3122 SEVERIN, W. H. Red Poll cattle. Philfarmer 1948: 3. Third Quarter 1948. 6 P53

3123 SEYMOUR, E. Y. Romantic story of golden Guernseys. Farmer & Settler Rev. 1(4): 26. Aug. 1948. 23 F2262

3124 SHAW, J. C. Nutrition and reproduction in dairy cattle. Md. Farmer 32(9): 4. Sept. 1948. 6 M362

3125 SIRRI, A. The brown race [of cattle] in the Alto Adige. (In Italian.) Riv. di Zootec. 21: 204-205. June 1948. 49 R52

3126 SOCAS, S. H. Porvenir de "los Negros." Chacra 18(215): 12. Sept. 1948. 9 C34

3127 STILES, G. Last Longhorn round-up in south Texas. Cattleman 35(5): 23, 70-71. Oct. 1948. 45 C29

3128 SWAFFAR, C. D. A great show window: the Polled Shorthorn Congress has been wonderfully effective in the expansion of the breed. Shorthorn World 33(10): 130, 183. Aug. 10, 1948. 43.8 Sh8

3129 TABOR, G. E. The Bos-indicus—the packer's premium. Brahman Breeder-Feeder 14(10): 13-14, 16-17. Oct. 1948. 43.8 B73

3130 TAYLOR, F. J. The Brahman moves North. Country Gent. 118(10): 38, 140-142. Oct. 1948. 6 C833  
Beef cattle.

3131 TERRAZAS M., I. Inseminación artificial en bovinos. Campo[La Paz] 2(14): 5-11. (Cont.) June 1948. 9.1 C15

3132 THIEMAN, H. W. Don't grab at straws. Remember—like begets like and the likeness of previous ancestry. Shorthorn World 33(10): 133, 173. Aug. 10, 1948. 43.8 Sh8

3133 TOMSON, C. K. It's a fascinating business and it can be both pleasant and profitable if you will learn the fundamentals. Shorthorn World 33(10): 34. Aug. 10, 1948. 43.8 Sh8  
Cattle breeding.

3134 TOMSON, C. K. 'Let's be practical'; performance is the profit index that will measure the value of all commercial cattle. Livestock Weekly 2(46, sect. 2): 4, 9. Sept. 23, 1948. 49 L753  
Breeding Shorthorns.

3135 TOMSON, C. K. Shorthorn influence on America's beef industry. They moved into the west to lay the foundation for the most extensive beef production ever known in any country. Shorthorn World 33(13): 9-10, 110-111. Sept. 25, 1948. 43.8 Sh8

3136 TORMEY, J. L. The mysterious mustard. Good seed pays for itself many fold—a good sire may be high priced but no bull is as expensive as the poor one. Shorthorn World 33(10): 150, 152-156. Aug. 10, 1948. 43.8 Sh8



3137 TOWNSEND, T. L. Breeding good cattle; some implications of artificial insemination especially as regards the selection of sires. *Holstein-Friesian J.* 11(6): 15-16, 44-45. Sept. 1948. 43.8 H743

3138 VAN SLYKE, E. J. The design for intelligence. *Milking Shorthorn J.* 29(10): 4. Oct. 1948. 43.8 M59  
Milking Shorthorn program.

3139 WARD, A. H., and CASTLE, O. M. Breed type and production records in Jersey cattle in New Zealand. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 29: 175-183. Dec. 1947. 514 N48A

3140 WENTWORTH, E. N. The quest for tenderness in beef. Characteristics that made the Shorthorn the popular beef animal of the early 1800's, and 1830's, the 1870's and about 1900, seem highly useful as the postwar conditions of the late 1940's face us. *Shorthorn World* 33(12): 9-10, 68-69. Sept. 10, 1948. 43.8 Sh8

3141 WHITCOMB, G. Observations on Brahman cattle. *Brahman Breeder-Feeder* 14(11): 34, 36. Nov. 1948. 43.8 B73

3142 THE WHITEFACE. *Farm Q.* 3(3): 32-37, 130-133. Autumn 1948. 6 F22995  
The story of Hereford cattle.

3143 WHITEHEAD, J. A. Look for your sire early. Continuous selection and use of improving bulls has brought breed a long ways toward practical goals. *Shorthorn World* 33(10): 306-307. Aug. 10, 1948. 43.8 Sh8

3144 WILLIAMS, G. A. Upward steps in herd improvement. *Hoard's Dairyman* 93: 774-775. Oct. 25, 1948. 44.8 H65

3145 WINTERS, L. M. Polled Shorthorns, "the ultimate type"; development of the breed. *Shorthorn World* 33(10): 127, 185-189. Aug. 10, 1948. 43.8 Sh8

3146 ZIEGENHEIN, W. Bekämpfung der Unfruchtbarkeit unserer Kuhbestände. *Neue Mitt. f. die Landw.* 3: 102-103. Apr. 5, 1948. 18 N39

3147 ZOERB, E., POUNDEN, W. D., and KRAUSS, W. E. Infertility in small dairy herds. *Farm & Home Res. [Ohio Sta.]* 33: 122-123. July/Aug. 1948. 100 Oh3S

#### Feeds and Feeding

3149 AXELSSON, J. Carotene supply and fertility in cattle. (In Swedish.) *Ladugården* 1948: 71-72. May 1948. 44.8 L12

3149 AXELSSON, J. Protein concentration and fiber content of cattle feed. (In Swedish.) *Lantmannen* 32: 612-614. Sept. 11, 1948. 11 L234

3150 BAILEY, V. D. Producción constante de leche se puede obtener por medio del ensilaje. *Café de El Salvador* 208: 661-664. Aug. 1948. 68.28 C112

3151 BALTZER, A. C. We need more milk from grass. *Mich. Farmer* 210: 137, 158. Sept. 1948. 6 M58

3152 BARNES, G. W., and SMITH, A. L. Guide for feeding beef calves. *Tex. Agr. Col. Ext. C.* 226, rev., 11 p. June 1947. 275.29 T312C

3153 BARRENTINE, B. F., and LEVECK, H. H. Steers fed wood product in experiment. *Miss. Farm Res. [Miss. Sta.]* 11(9): 8. Sept. 1948. 100 M69Mi

3154 CANO, A. E. La avena en la alimentación del ganado. *Aberdeen Angus [Buenos Aires]* 1948(39): 49-50. Winter 1948. 43.8 Ab33

3155 COLBY, B. E. Red meat from green grass. *New England Homestead* 121(16): 3, 14. Aug. 28, 1948. 6 N442

3156 CUNNINGHAM, G. They turn cobs into beef. *Successful Farming* 46(9): 126, 130. Sept. 1948. 6 Su12

3157 DAVIES, W. Grassland and the farmer. 4. The ley and the dairy farmer. *Agr. Ireland* 5: 205, 207. Sept. 1948. 10.5 Ag8

3158 DUCK, R. W. Steer fattening in the Northeast. *Rural New-Yorker* 98: 643, 648. Oct. 16, 1948. 6 R88

3159 GEDDES, H. J. Tethering of calves as means of practising Ballinger system [of calf raising]. *Farmer & Dairyman* 40(499): 5. Aug. 1948. 23 F225  
For grazing control. Deals chiefly with feeding.

3160 GILL, J. B. Winter grazing tests in south Mississippi. *Miss. Farm Res. [Miss. Sta.]* 11(9): 4-6. Sept. 1948. 100 M69Mi  
Cattle.

3161 GUARD, S. R. Putting the feeding standards to work. *Breeder's Gaz.* 113(10): 6, 34, 40-41. Oct. 1948. 49 B74

Balanced rations for dairy cattle.

3162 GUNSTON, J. Work out the foods you've got for winter months. *Dairy Farmer [Ipswich]* 21(10): 13. Oct. 1948. 44.8 D1414

3163 HADJIMARKOS, D. Effect of diet on some of the minerals and vitamins of human and bovine milk. *Amer. Dent. Assoc. J.* 37: 573-579. Ref. Nov. 1948. 448.8 Am322

3164 HARDIN, L. S. Riskproof cattle feeding. *Country Gent.* 118(10): 23, 142-143. Oct. 19-8. 6 C833

3165 HARGRAVE, H. J. How short grass makes beef; good pasture management and protein supplements will increase daily gains of cattle on the range. *Country Guide* 67(9): 38, 39. Sept. 1948. 7 G76

3166 HELMENIUS, A. Feeding dairy cattle. (In Swedish.) *Ladugården* 1948: 28. Feb. 1948. 44.8 L12

3167 HELMENIUS, A. Mineral supply for cattle during pasture grazing. (In Swedish.) *Ladugården* 1947: 67-68. Aug. 1947. 44.8 L12  
Dairy cattle.

3168 HEM, M. Preliminary trials of feeding iodinated casein to dairy cows. (In Norwegian.) *Norges Landbrukshøgsk. Inst. f. Husdyrernaering og Fôringslaere.* *Saertrykk* 60, 8 p. Oslo, 1947. 389.79 N76  
English summary.

3169 HOGAN, A. G. Feed for pregnant cow. *Shorthorn World* 33(13): 41. Sept. 25, 1948. 43.8 Sh8

3170 HOLDAWAY, C. W. Some effects of different levels of protein feeding on dairy cow nutrition. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 69-70. 1948. 500 V81

3171 HOVELAND, N. Good pastures yield cheap milk. *Successful Farming* 46(10): 74-76. Oct. 1948. 6 Su12

3172 HUNGER, E. A. More and better pastures in Florida; land clearing, fertilizing, and special grass planting, major factors in development of State's cattle industry. *Internatl. Harvester World* 39(10): 12-14. Oct. 1948. 58.8 H26

3173 JACOBSON, N. Feeding the dairy calf. *Hoard's Dairyman* 93: 767, 773. Oct. 25, 1948. 44.8 H65

3174 JARL, F. Cattle feeding experiments. (In Swedish.) *Ladugården* 1948: 164-165. Aug. 1948. 44.8 L12

3175 JARL, F. Feeding experiments with milk cows on ensiled sugar beet pulp, artificially dried sugar beet pulp, and sulfite yeast. (In Swedish.) *Sweden. Landbrukshögsk. Husdjursförsöksanst. Meddel.* 31, 47 p. Ref. Norrtälje, 1948. 104 Up62  
English summary.

3176 JARL, F. Save on whole milk in heifer calves feeding. (In Swedish.) *Ladugården* 1948: 62-64. Apr. 1948. 44.8 L12

3177 JAX, P. Über den einfluss der versütterung von grüner futtermalve sowie sauerfutter von futtermalve, markstammkohl, pferdebohne und ackersenf auf milchtrug und milchbeschaffenheit. *Österr. Milch- u. Fettwirtschaft* 3: 145-148. July 1948. 44.8 Os72

3178 JOHNSON, B. B. Florida's permanent pastures. *Brahman Breeder-Feeder* 14(10): 23, 25-26. Oct. 1948. 43.8 B73

3179 JONES, R. C. Feed for more milk this coming fall and winter. *Livestock Weekly* 2(45): 3. Sept. 16, 1948. 49 L753

Also in *Dakota Farmer* 68(19): 24. Oct. 2, 1948. 6 D14

3180 KUHLMAN, A. H. Greener pastures mean added milk production, greater returns for thrifty dairymen. *Dairy & Poultry News* 3(3): 1, 3. Summer 1948. 49.9 Sw5

3181 MCCLYMONT, G. L. Comparative value of urea and protein for supplementing low protein rations for growing cattle. *Austral. Vet. J.* 24: 197-204. Aug. 1948. 41.8 Au72

3182 OLESON, G. O. Pastures are places to make more milk. *New England Homestead* 121(19): 7, 10. Oct. 9, 1948. 6 N442

3183 PARK, R. What's in cattle feeding picture? *Prairie Farmer, Gen. Ed.* 120(21): 5. Oct. 9, 1948. 6 P883

3184 RICE, W. J. Early-day cattle ranges. *Amer. Cattle Prod.* 30(4): 11-12. Sept. 1948. 49 P94

3185 RIGGS, J. K., ROBERTS, J. E., and JONES, J. H. Citrus molasses in rations for fattening steers. *Tex. Livestock J.* 7(9): 8. Sept. 15, 1948. 49 T29

3186 SHEALY, A. L. Getting maximum from cattle. *Fla. Grower* 56(10): 25. Oct. 1948. 80 M72  
Feeding.



- 3187 SNYDER, H. Subterranean clover: this new legume for winter grazing is especially promising. *Shorthorn World* 33(12): 71-72. Sept. 10, 1948. 43.8 Sh8
- 3188 STAPLEDON, SIR R. G. Pastures old and new; the animal's point of view. *Gt. Brit. Min. Agr. Agriculture* 55: 231-234. Sept. 1948. 10 G79J
- 3189 STAUFFER, H. L. Vitamin-C-belastungsversuche an tieren der schweizerischen Braunviehrasse. *Zürich, Wochenblatt*, 1947. 55 p. 43 St22  
Inaug.-Diss.-U. Zürich.
- 3190 SWAN, L. C. The cow and you. *Ontario Milk Prod.* 24: 113-114. Oct. 1948. 44.8 On8  
Feeding.
- 3191 THOMPSON, J. Healthy Jersey calves. *Jersey Cow (n. s.)* 19: 29-31. Spring 1948. 43.9 En3J  
Care and feeding.
- 3192 TURK, K. L. Fall feeding for more fall milk. *Dairymen's League News* 32(22): 6. Nov. 2, 1948. 44.8 D1432
- 3193 TYSON, R. P. Chou moellier and thousand-headed kale. *Tasmanian J. Agr.* 19: 135-138. 23 T182T  
As feed for dairy cattle.
- 3194 WASHBURN, R. G., and MONROE, C. F. Effect of intermittent and limited winter grazing of rye pasture on the carotene and vitamin A content of cows' milk. (Abs.) *J. Dairy Sci.* 31: 697-698. Aug. 1948. 44.8 J822
- 3195 WINKLER, H. Kale? - an ideal transition feed. (In Swedish.) *Lantmannen* 32: 610. Sept. 11, 1948. 11 L234  
For dairy cattle.
- Veterinary Medicine
- 3196 BAILEY, J. W. Brucellosis and the blood test. *Guernsey Breeders' J.* 74: 393-394, 425. Oct. 1, 1948. 43.8 G93
- 3197 BAILEY, J. W. Veterinary X-disease. *Hoard's Dairyman* 93: 752. Oct. 10, 1948. 44.8 H65
- 3198 BAKER, J. A., and LITTLE, R. B. Leptospirosis in cattle. *J. Expt. Med.* 88: 295-307. Ref. Sept. 1, 1948. 44.8 J822
- 3199 BALCH, C. C., and JOHNSON, V. W. A pneumatic cannula and bung for rumen fistulae in cattle. *Vet. Rec.* 60: 446. Sept. 11, 1948. 41.8 V641
- 3200 BATHE, D. R. Bloat: observations on Somerset pastures. *Gt. Brit. Min. Agr. Agriculture* 55: 235-238. Sept. 1948. 10 G79J  
Bloat in dairy cattle.
- 3201 BECK, G. Die planmässige bekämpfung der rindertuberkulose. *Landw. Wchnbl.* 138: 208. Aug. 21, 1948. 18 L2338
- 3202 BERTHELON, M. La souche 19 dans la prophylaxie de la brucellose bovine. *Rev. de Méd. Vét. [Toulouse]* 99: 289-304. Ref. July 1948. 41.8 R32
- 3203 BISHOP, D. W., and WEINSTOCK, I. Uptake of radioactive phosphorus by bull spermatozoa. (Abs.) *Anat. Rec.* 101: 731. Aug. 1948. 44.8 An1
- 3204 BOGORODITSKIĬ, A. V., and BERNADSKAĬA, Z. M. Immunization of calves against piropasmosis, franciellosis and theileriasis. (In Russian.) *Veterinariia* 25(3): 15-16. Mar. 1948. 41.8 V6426
- 3205 BOHÓRQUEZ, J. J. Progresos en la vacunación contra la brucellosis bovina (aborto infeccioso). *Rev. de Med. Vet. y Zootec.* 17: 82-88. Ref. Mar./July 1948. 41.8 R3214
- 3206 BOLTON, J. A case of phenothiazine poisoning in young bovines. *Vet. Rec.* 60: 479. Oct. 2, 1948. 41.8 V641
- 3207 BOSTON, E. J. Dehorning and line-breeding. *Jersey Cow (n. s.)* 19: 15-16. Spring 1948. 43.9 En3J
- 3208 BRADT, C. G. Brucellosis control in New York. *Hoard's Dairyman* 93: 722. Oct. 10, 1948. 44.8 H65
- 3209 BUDDLE, M. B. Vaccination against bovine brucellosis. *Austral. Vet. J.* 24: 171-176. July 1948. 41.8 Au72
- 3210 CASE, J. D. The use of sulfamethazine in the treatment of foot rot, metritis, and calf pneumonia. *Amer. Vet. Med. Assoc. J.* 113: 348-351. Ref. Oct. 1948. 41.8 Am3
- 3211 CHABROT, C. La pericardite exudative par corps étranger chez les bovidés. *Blé et le Vin* 25(1109): 3. Aug. 22/29, 1948. 14 B61
- 3212 CHARITAT. Le pica. *Rustica* 21: 644. Sept. 12, 1948. 14 R92  
In cattle.
- 3213 CLARENBURG, A., and VINK, H. H. Infection with *Salmonella anatum* of the cow in connection with salmonellosis of ducks. *Antonie van Leeuwenhoek J. Microbiol. & Serol.* 14: 126-128. 1948. 44.8 N28A
- 3214 DAVIS, T., JR. Shipping fever [in cattle]. *East. Breeder* 10(5): 43-46. Oct. 1948. 49 V81
- 3215 DOCKER, T. M. Bovine trichomoniasis. Its diagnosis and control in New Zealand herds. *Austral. Vet. J.* 24: 226-232. Ref. Aug. 1948. 41.8 Au72  
Discussion, p. 232-234.
- 3216 DOMANSKI, E., and JASKOWSKI, L. Bulls and brucellosis. (In Polish.) *Med. Wet.* 4: 374-376. June 1948. 41.8 M463
- 3217 DOMINGUES, O. How milk is "manufactured." (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 266-267. July/Aug. 1948. 9.2 R324
- 3218 EVANS, J. T. R. Trypanosoma congolense infection in cattle in the Sudan: treatment with dimidium bromide (phenanthridinium 1553). *Vet. Rec.* 60: 418-420. Aug. 28, 1948. 41.8 V641
- 3219 FAT'KIN, N. F., and ISAEV, S. G. Anesthetization of penis of the bull. (In Russian.) *Veterinariia* 25(3): 24-25. Mar. 1948. 41.8 V6426
- 3220 FELON or mastitis. *North. Ireland. Min. Agr. Rpt.* 23: 134-136. Sept. 1948. 256.13 Ag82M
- 3221 GEROSA, G. Diseases of the feet of cattle. (In Italian.) *Humus* 4(2): 27-30. Feb. 1948. 16 H88
- 3222 GERSTNER, R. Vom aufblähen des rindes. *Salzburg. Bauer* 3(34): 1-2. (To be cont.) Aug. 19, 1948. 19 Sa3
- 3223 GIBBONS, W. J. Progress in the treatment of dairy cattle diseases. *North Amer. Vet.* 29: 638-639. Oct. 1948. 41.8 N812
- 3224 GILMORE, L. O., and SELLERS, A. F. Sacral deformity in the "wrytail" abnormality in cattle. *J. Dairy Sci.* 31: 797-803. Sept. 1948. 44.8 J822
- 3225 GRIMPRET. La lutte contre la theileriose bovine. *Colon Franç. de Tunisie* 58(2063): 1-2. Sept. 4, 1948. 24 C712
- 3226 HAIGHT, P. M. Dairy cattle practice. *Iowa Vet.* 19(5): 13-17, 22-23. Sept./Oct. 1948. 41.8 Io9
- 3227 HARNACH, R. The reaction number of the intradermal tuberculin test in cattle. (In Czech.) *Casopis Českoslov. Vet.* 3: 498-500. Sept. 10, 1948. 41.8 C27
- 3228 HODGES, H. C. New York State pursues mastitis control program. *Jersey B.* 67: 1536, 1570-1572, 1574, 1576, 1578, 1580, 1582. Sept. 25, 1948. 43.8 J48
- 3229 HÖLLERICH, R. Die melkarbeit. *Österr. Milch- u. Fettwirtschaft* 3: 164-165. (Cont.) July 1948. 44.8 Os72  
Physiology of milk production.
- 3230 HOSTETLER, R. Lessons on milk sanitation emphasize brucellosis control. *Agr. Leaders' Digest* 29(9): 50-51. Sept. 1948. 275.28 Am3
- 3231 HOYT, H. M. Traumatic pericarditis [in a cow] caused by bristles from steel broom. *North Amer. Vet.* 29: 639. Oct. 1948. 41.8 N812
- 3232 HUBER L., G. Conocimiento de la edad de los bovinos por los dientes y los cuernos. 2. *Rev. Ganad. [Habana]* 8(10): 25-26. Oct. 1948. 49 R321
- 3233 IYENGAR, N. R. S. Accidents on parturition. *Bangalore Dairy Cattle Soc. Monthly B.* 7: 41. May 1948. 43.9 B22
- 3234 IYENGAR, N. R. S. Digestive apparatus. *Bangalore Dairy Cattle Soc. Monthly B.* 7: 60, 63. July 1948. 43.9 B22
- 3235 JAKUBOWSKI, A. Monstrosities of fetuses. (In Polish.) *Med. Wet.* 4: 438-439. July 1948. 41.8 M463  
Cattle.
- 3236 JASPER, D. E. Ketosis studied; acetonemia and pregnancy disease dual problem in cows and in sheep. *Calif. Agr. [Calif. Sta.]* 2(10): 6. Oct. 1948. 100 C12Cag
- 3237 KÄSTLI, O. Die bekämpfung der rindertuberkulose in Dänemark. *Schweiz. Zentbl. f. Milchw.* 37: 187-188. Sept. 10, 1948. 44.8 Sch93
- 3238 KITROSER, S. Neumoenteritis de los terneros. *Res* 16: 22643. Sept. 5, 1948. 286.85 R31
- 3239 KRÄSTIN, N. I. Diagnosis and therapy of thelaziasis caused by *Thelazia skrjabini* and *Th. gulosa* in cattle. (In Russian.) *Veterinariia* 25(4): 19-21. Apr. 1948. 41.8 V6426



- 3240 KUNICKI-GOLDFINGER, W. The influence of the chronic mastitis on the amount of the milk and of the milk-fat. (In Polish.) *Med. Wet.* 4: 439-441. Ref. July 1948. 41.8 M463  
English summary.
- 3241 LAWHON, G. J., JR. X disease in South Carolina. A case report. *North Amer. Vet.* 29: 643-644. Oct. 1948. 41.8 N812
- 3242 LAWRENCE, C. J. R., and ARCHER, R. K. Fracture of the os calcis in a young Jersey bull. *Vet. Rec.* 60: 466. Sept. 25, 1948. 41.8 V641
- 3243 MERCHANT, I. A. Public health significance of bovine udder infections. (Abs.) *Tex. Vet. B.* 10(8): 4. Aug. 1948. 41.8 T31
- 3244 MORRILL, C. C. Hyperkeratosis or X disease. *North Amer. Vet.* 29: 642-643. Oct. 1948. 41.8 N812
- 3245 MURPHY, C. T. Dishorning of adult cattle. *Vet. Rec.* 60: 434. Sept. 4, 1948. 41.8 V641
- 3246 NECKARSULMER, H. Acetonemia. (In Swedish.) *Ladugården* 1948: 66-67. Apr. 1948. 44.8 L12  
In cows.
- 3247 PALMER, C. C. Sulfanilamide and penicillin in combination in treating bovine mastitis. *North Amer. Vet.* 29: 634-637. Oct. 1948. 41.8 N812
- 3248 PANASENKO, F. Treatment of endometritis [in cows] with lactic acid microbes. (In Russian.) *Veterinariia* 25(3): 27-29. Mar. 1948. 41.8 V6426  
*Streptococcus lactis* and *Lactobacillus casei*.
- 3249 PARKER, R. R., BELL, E. J., and LACKMAN, D. B. Experimental studies of Q fever in cattle. I. Observations on four heifers and two milk cows. *Amer. J. Hyg.* 48: 191-206. Sept. 1948. 44.8 Am3
- 3250 PATERSON, J. S., and PRIE, N. W. Attempted active immunisation of cattle against Br. abortus infection with an antigenic fraction. *J. Compar. Path. & Ther.* 58: 227-231. July 1948. 41.8 J82
- 3251 PERSSON, A. Cases of illness on pasture. (In Swedish.) *Lantmannen* 32: 630-631. Sept. 18, 1948. 11 L234  
Cattle.
- 3252 PICKARD, L. Care in dehorning. Neatest job can be done with caustic potash, preferable when calf is one to two weeks old. *Holstein-Friesian J.* 11(7): 24. Oct. 1948. 43.8 H743
- 3253 POLLOCK, N. F. Dishorning cattle. *Vet. Rec.* 60: 434. Sept. 4, 1948. 41.8 V641
- 3254 PORTEOUS, C. A farming hazard. *Countryman* [Burford] 38(1): 43-44. Autumn, 1948. 281.28 C832  
Falls of cattle into old mines.
- 3255 POUNDEN, W. D. Shrunk dollars from swollen quarters. *Hoard's Dairyman* 93: 719, 742-743. Oct. 10, 1948. 44.8 H65  
Mastitis.
- 3256 QUARMBY, W. B. Suggested technique for dishorning adult cattle. *Vet. Rec.* 60: 434. Sept. 4, 1948. 41.8 V641
- 3257 RAINEY, J. W. Treatment of foul-in-the-foot and acute inflammation of the skin by a kaolin-glycerine mixture. *Austral. Vet. J.* 24: 164-165. July 1948. 41.8 Au72  
In cattle.
- 3258 REFUERZO, P. G. The treatment of fascioliasis in dairy cattle and in Indian buffaloes with hexachlorethane and kamala extract. *Philippine J. Sci.* 77: 25-37. Ref. May 1947. 475 P53
- 3259 RITCHIE, J. N. Bovine contagious abortion; excellent results of the S. 19 vaccine. *Ayrshire Cattle Soc. J.* 20: 140-142. Oct. 1948. 43.8 Ay74
- 3260 RITCHIE, J. N. Bovine tuberculosis. *Roy. Sanit. Inst. J.* 68: 503-506. Sept. 1948. 44.9 R812  
Discussion, p. 506-508.
- 3261 ROF CODINA, J. La vaginitis contagiosa en las vacas. *Cult. Mod.* 31: 291. Aug. 1948. 15 C89
- 3262 ROMIJN, C. Physiological investigations on bull semen. *K. Nederland. Akad. van Wetensch. Proc.* 51: 708-720. Ref. 1948. 503 Am8P
- 3263 ROSSI, R. P. Let us castrate the calves. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 135-136. July 31, 1948. 16 C72
- 3264 SARSON, A. Care of the calving cow. *Dairy Farmer* [Ipswich] 21(10): 23. Oct. 1948. 44.8 D1414
- 3265 SCHNEIDER, E. Untersuchungen über diagnose, lokalisation, therapie und übertragung von Trichomonas foetus bei zuchtstieren. *Schweiz. Arch. f. Tierheilk.* 90: 503-524. (To be cont.) Sept. 1948. 41.8 Sch9
- 3266 SEAGRAVES, C. H. Traumatic gastritis and frothy bloat with special reference to surgical treatment. (Abs.) *Tex. Vet. B.* 10(8): 5. Aug. 1948. 41.8 T31  
In cattle.
- 3267 SEEKLES, L. The biochemical approach to animal disease. The Fison Lectures, 1948, of the Animal Health Trust. II-III. *Vet. J.* 104: 238-251; 279-293. Ref. Aug.-Sept. 1948. 41.8 V643  
II. Gastro-intestinal auto-intoxication in cattle and horses; III. Real and conditioned deficiencies of minor elements in cattle.
- 3268 SIMONPIETRI, R. H. Raquitismo, osteomalcacia e hipocalcemia. *Rev. Ganad. [Habana]* 8(10): 34-35. Oct. 1948. 49 R321  
Cattle.
- 3269 STEVENSON, W. G., and CLARK, W. The incidence of *Streptococcus agalactiae* in a commercial dairy herd before and after treatment with penicillin. *Canad. J. Compar. Med.* 12: 237-238. Sept. 1948. 41.8 C162
- 3270 TALBOT, R. J. DE C. Vaccination against brucellosis. *Austral. Vet. J.* 24: 176-182. July 1948. 41.8 Au72
- 3271 TURNER, C. W. Thyro-active lactation stimulant for dairy cows. *Calif. Dairyman* 28(18): 32. Oct. 9, 1948. 44.8 C12
- 3272 VAITSMAN, J. Verminosis of cattle. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 264-265. July/Aug. 1948. 9.2 R324
- 3273 VAITSMAN, J. An unknown disease of cattle. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7(1): 20-21. Jan./Mar. 1948. 9.2 Ag892  
A type of gangrenous coryza.
- 3274 VEENSTRA, R. H. Skin and subcutaneous lesions. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 638-639. Aug. 1/15, 1948. 41.8 T431  
In cattle.
- 3275 VILLARES, J. B. Duration of heat in cows in tropical regions. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(334): 18-19. July 1948. 9.2 B733
- 3276 VINCENT, W. Diseased dairy cows endanger milk supply; eliminate those which produce abnormal milk. *Dairy & Poultry News* 3(3): 6. Summer 1948. 49.9 Sw5
- 3277 WAGNON, K. A. Elastration of calves. *Calif. Dairyman* 28(18): 14. Oct. 9, 1948. 44.8 C12
- 3278 WALTON, A. Physiology of the dairy cow. I. Rumination. *Home Farmer* 15(9): 14-15. Sept. 1948. 280.344 H75
- 3279 WARD, A. H., and CASTLE, O. M. Average length of gestation period in dairy cattle in New Zealand. *New Zeal. J. Sci. & Technol. A, Agr. Res. Sect.* 29: 171-173. Dec. 1947. 514 N48A
- 3280 WATZDORF, F. VON. Erfahrungen in der bekämpfung von *Bazillus Bang* und tuberkulose. *Neue Mitt. f. die Landw.* 3: 168-169. June 5, 1948. 18 N39
- 3281 WEBER, A. F., MORGAN, B. B., and MCNUTT, S. H. A histological study of metrorrhagia in the virgin heifer. *Amer. J. Anat.* 83: 309-320. Ref. Sept. 1948. 44.8 Am32
- 3282 ZAIANCHKOVSKIĬ, I. F. Diseases in cattle caused by foreign substances. (In Russian.) *Veterinariia* 25(4): 32-35. Apr. 1948. 41.8 V6426
- 3283 ZWIETEN, M. VAN. Abnormal parturition in buffalo. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55(1/2): 85. Apr. 1948. 41.8 V51

#### Miscellaneous

- 3284 ADAIR, W. Farming in U. S. A. 5. Turriff man's kingdom of 700 cows; managing Guernsey herd, all hand-milked. *Farming News & North Brit. Agr.* 100 (41): 2-3. Oct. 1, 1948. 10 N82
- 3285 BANKS, F. R. The wild cattle of Chillingham. *Country Life* [London] 104: 523. Sept. 10, 1948. 80 C83
- 3286 BARKLEY, M. S. Unique cattle brands. *Cattleman* 35(5): 36, 38. Oct. 1948. 45 C29
- 3287 BARRY, L. Catch in cow-testing for the dairy farmer. *Irish Agr. & Creamery Rev. (n. s.)* 17(177): 10-11. Sept. 1948. 44.8 C866
- 3288 BARTLETT, J. W. Are cows any better today than fifty years ago? *N. J. Farm & Gard.* 19(10): 19, 40. Oct. 1948. 6 G162
- 3289 BECKER, R. B. Factors in dairy improvement. *Fla. Grower* 56(10): 24. Oct. 1948. 80 M72
- 3290 BERGE, S. Milking twice compared to many times a day. (In Norwegian.) *Norsk Landbr.* 14: 70-71. Feb. 20, 1948. 11 N8122



- 3291 BLAXTER, K. L. Do this and get a lot more milk. Dairy Farmer [Ipswich] 21(10): 14. Oct. 1948. 44.8 D1414
- 3292 BLUME, J. C. Selling to the beginner. Short-horn World 33(10): 74-75. Aug. 10, 1948. 43.8 Sh8
- 3293 BREIREM, K., and HOMB, T. Milk yield and profit of milk production at different seasons of calving. (In Norwegian.) Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Føringsslære. Særtrykk 57, 32 p. Oslo, 1947. 389.79 N76  
English summary.
- 3294 CARAWAY, A. H. The art of fitting champions: no definite set of rules to follow—animals, like people, are never exactly alike—individual attention necessary. Shorthorn World 33(10): 105, 299-301. Aug. 10, 1948. 43.8 Sh8
- 3295 CASTLE, C. V. Time to raise heifers. Calif. Dairyman 28(16): 26-27. Sept. 11, 1948. 44.8 C12
- 3296 COCHEL, W. A. Three factors determine success: breeding, feeding and salesmanship make a combination that will win. Shorthorn World 33(10): 90, 203-205. Aug. 10, 1948. 43.8 Sh8
- 3297 COOK, C. South Dakota cattle country. West. Farm Life 50(17): 48, 50, 52. Sept. 1, 1948. 6 R153
- 3298 COOPER, T. H. Wintered-out cows break records. Dairy Farmer [Ipswich] 21(10): 9. Oct. 1948. 44.8 D1414
- 3299 COWAN, W. A. Beef production in New England. New England Homestead 121(18): 5, 20. Sept. 25, 1948. 6 N422
- 3300 DOMINGUES, O. Why cows "hold" their milk. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 268-269. July/Aug. 1948. 9.2 R324
- 3301 DOROSHCHENKOV, G. High increases in weight of calves. (In Russian.) Kolkhoz. Proizvod. 8 (5): 34. May 1948. 281.8 K83  
Method of rearing on the Serp i Molot Farm in Vinnitsa Region.
- 3302 DOUGLAS, J. R. Why not age-weight classification? Shorthorn World 33(12): 48. Sept. 10, 1948. 43.8 Sh8  
At shows and sales.
- 3303 DUCK, R. W. Beef cows and their calves. Rural New-Yorker 98: 582, 586. Sept. 18, 1948. 6 R88  
Care.
- 3304 DUNCAN, M. Man's best friend. Milking Shorthorn J. 29(9): 3-4. Sept. 1948. 43.8 M59  
Cows.
- 3305 DUSCHE, H. Ausbau der leistungskontrolle. Neue Mitt. f. die Landw. 3: 217. July 21, 1948. 18 N39  
Cattle care and milk production in Germany.
- 3306 EDWARDSSON, G. Report on activities of Jönköping County Central Control Association. (In Swedish.) Jönköpings Läns Hushållningssällsk. Handl. och Tidskr. 1947: 67-68. 1948. 11 J732
- 3307 EMRICK, W. E. Branding of dairy cattle. Calif. Dairyman 28(17): 23. Sept. 25, 1948. 44.8 C12
- 3308 ERIKSEN, S. Have a healthy herd. The way is simply to do the right thing at the right time. Shorthorn World 33(10): 212-217. Aug. 10, 1948. 43.8 Sh8
- 3309 GARRAD, G. H. Rearing calves. Kent Farmers' J. 64: 36-37. Sept. 1948. 10 K41
- 3310 GOOCH, J. They were 4-H'ers, and the 4-H training left them with the attitude that agriculture and industry are both important groups in the American democratic system. Shorthorn World 33(10): 66-67, 163-164. Aug. 10, 1948. 43.8 Sh8
- 3311 GORDON, G. E. Raising calves for replacements. Guernsey Breeders' J. 74: 809-811, 854. Nov. 1, 1948. 43.8 G93
- 3312 GRAVES, R. R., and DAWSON, J. R. Relative milk production of cows in pen barns and stanchion barns. Guernsey Breeders' J. 74: 642-643, 674, 677. Oct. 15, 1948. 43.8 G93
- 3313 GUTIÉRREZ DE MIGUEL, J. Posibilidades ganaderas del Africa Ecuatorial. Ganadería [Madrid] 6: 237-239. May 1948. 49 G15
- 3314 HALLGREN, H. Why continue judging cattle by their conformation. (In Swedish.) Lantmannen 32: 566-568. Aug. 21, 1948. 11 L234
- 3315 HAMMAN, E. C. The African cattle at exhibition and at the slaughterhouse. (In Afrikaans.) Landbouweekblad 30(1518): 31, 50-51. Aug. 11, 1948. 24 L232
- 3316 HENDERSON, E. R. Western Canada "A" circuit shows. Shorthorn News 9(3): 38-44. Sept. 1948. 43.8 Sh85
- 3317 HENDERSON, F. Increasing production. Jersey Cow (n. s.) 19: 24-26. Spring 1948. 43.9 En3J  
Of milk.
- 3318 HENRIKSSON, A. Drying off of dairy cows. (In Swedish.) Ladugården 1948: 22-24. Feb. 1948. 44.8 L12
- 3319 HERWEYER, C. H. The work cattle in the Javanese agricultural settlement in the division Loewoe (South Celebes). (In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 54: 27-37. Jan. 1947. 41.8 V51  
English summary.
- 3320 HILL, O. J. Thanks, Boss, for good feed and a good rest during my dry period. Washcoegg 26(5): 7. Oct. 1948. 47.8 W27  
Care of dairy cows.
- 3321 HODGSON, R. E., and DAHLBERG, A. Crianza de terneros de lechería. II. Agr. Costarricense 6: 126-127, 129-133, 135-136, 138-140, 142-143. May/June 1948. 8 Ag895
- 3322 HUITEMA, H. The livestock situation and its economic significance in the Javanese colonization areas, Lamasi, Bone-Bone and Kalaena, situated in the Loewoe department (South Celebes). (In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 54: 53-63. June 1947. 41.8 V51  
English summary.
- 3323 JOHANSSON, I., and HANSSON, A. Causas de variación en el rendimiento de leche y grasa butirométrica de las vacas lecheras. Indus. Lechera 30: 535-539, 541-542. (Cont.) Aug. 1948. 44.8 In26
- 3324 JOHANSSON, I. Efficient milking methods. (In Swedish.) Ladugården 1948: 94-99. June 1948. 44.8 L12
- 3325 KLIESCH, J., and NEUHAUS, U. Der einfluss der temperatur auf die milch- und milchfett- leistung. Tierzucht 2: 59-65. Ref. Apr./May 1948. 49 T443
- 3326 KNOX, R. G. Show ring standards in relation to utility beef cattle. Shorthorn News 9(3): 11-12. Sept. 1948. 43.8 Sh85
- 3327 KORKMAN, N. Factors influencing the rate of milk flow during milking. (In Swedish.) K. Lantbruksakad. Tidskr. 87: 161-186. 1948. 104 Sw3  
English summary.
- 3328 KORNEEV, I. P. Bio-thermic method of disinfecting cattle manure. (In Russian.) Veterinarifá 25(5): 28-34. May 1948. 41.8 V6426
- 3329 KOTZE, P. L. The resting period of the dairy cow. Farming So. Africa 23: 413, 432. June 1948. 24 So842
- 3330 KUPCIK, V. The determination of age in slaughtered cattle [by] examining the vertebral ossification, especially os sacrum. (In Czech.) Časopis Českoslov. Vet. 3: 505-506. Sept. 10, 1948. 41.8 C27
- 3331 LACY, B. Milk. Manx J. Agr. 3: 23, 25, 27-29. July 1948. 10 M312  
Milk production.
- 3332 MARULANDA CAICEDO, L. El arte de ordeñar. Palmira. Estac. Agr. Expt. B. de Inform. Agropecuaria 1574: 1-3. Jan. 20, 1948. 102.5 P18B
- 3333 MATHERS, L. E. Who will manage your herd? Find a bright young man--work out the details--dump the responsibility on him and watch him grow in his job. Shorthorn World 33(10): 44, 160. Aug. 10, 1948. 43.8 Sh8
- 3334 MATZEN, W. Typ, leistung und Futteraufwand in der rinderzucht. Neue Mitt. f. die Landw. 3: 196-198. July 5, 1948. 18 N39
- 3335 MUSGRAVE, A. L. Begin judging at head, which indicates much. Farmer & Settler Rev. 1(4): 36. Aug. 1948. 23 F2262  
Dairy cow.
- 3336 OLIVER, H. Factors in range cattle management. Oreg. State Col. Ext. B. 690, 15 p. July 1948. 275.29 Or32B
- 3337 PERKINS, S. Why attend sales? Shorthorn World 33(10): 51, 159. Aug. 10, 1948. 43.8 Sh8
- 3338 PETERSEN, W. E. No ordeño un pezon cuando esta seco. Campo [La Paz] 2(14): 24-25. June 1948. 9.1 C15
- 3339 PETERSEN, W. E. The science of milk production. Victoria. Dept. Agr. J. 46: 350-354. Aug. 1948. 23 V66J
- 3340 RAITHBY, G. E. Classification—fad or fact? Ayrshire Digest 34: 733, 774. Oct. 15, 1948. 43.8 Ay7



- 3341 RICHARDS, F. Angus progress in the show ring. *Livestock Weekly* 2(46, sect. 2): 8. Sept. 23, 1948. 49 L753
- 3342 SCHUBERT, G. Good care—it's important. *Shorthorn World* 33(10): 132, 180-182. Aug. 10, 1948. 43.8 Sh8
- 3343 SHAW, A. O. Selecting a good dairy bull is still a 50-50 chance. *Wash. Farmer* 73: 689. Sept. 16, 1948. 6 R151
- 3344 SHEEHY, E. J. Calf rearing. *Gt. Brit. Min. Agr. Agriculture* 55: 189-197. Aug. 1948. 10 G79J
- 3345 SIRRI, A. Bologna cattle at the livestock show at Milan. (In Italian.) *Bologna Agr.* 1(25): 1. July 10, 1948. 16 B634
- 3346 STEIGINGA, C. C. Possibilities for extending cattle raising in the Barito-Negara area in order to increase fish production. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 74-76. June 1947. 41.8 V51
- 3347 STEPHENS, S. T. Australian average yields are far too low. *Farmer & Settler Rev.* 1(4): 10, 27. Aug. 1948. 23 F2262
- Average production of dairy cattle.
- 3348 TAGLE, E. C. La cabaña de bovinos en la República Argentina. *Ganadería [Madrid]* 6: 304-308. June 1948. 49 G15
- 3349 TAYLOR, B. R. When you go to the fair. *Livestock Weekly* 2(46, sect. 2): 6. Sept. 23, 1948. 49 L753
- Hereford cattle judging.
- 3350 THORMANN, W. Wie erreiche ich eine langlebige kuh? *Neue Mitt. f. die Landw.* 3: 164. June 5, 1948. 18 N39
- 3351 TIFFANY, A. Better steers for the feedlot. *Prairie Farmer, Gen. Ed.* 120(19): 1, 16. Sept. 11, 1948. 6 P883
- 3352 TIKHOMIROV, K., and MATLIN, S. 100,00 liters of milk from a cow. (In Russian.) *Kolkhoz. Proizvod.* 8(5): 35-36. May 1948. 281.8 K83
- 3353 TUBBS, L. G. Bids and beginners. *Jersey Cow (n. s.)* 20: 17-18. Summer 1948. 43.9 En3J
- Auction sales of cattle.
- 3354 TURK, K. L. High quality cattle show at New York State Fair. *Dairymen's League News* 32(20): 6-7. Oct. 5, 1948. 44.8 D1432
- 3355 U. S. BUR. OF DAIRY INDUSTRY. Production records of crossbred cows of various two-breed combinations. *U. S. Bur. Dairy Indus. BDIM-Inf-30, Sup.*, 4 p. Sept. 1948. 1.973 D4B34
- 3356 VARIATIONS in the composition of milk. II. The effect of feeding. *Home Farmer* 15(9): 15. Sept. 1948. 280.344 H75
- 3357 VIRGINIA. AGRICULTURAL AND MECHANICAL COLLEGE AND POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION DIV. 4-H project manual; raising the dairy calf. *Va. Agr. Col. Ext. C.* 378, rev., 6 p.-folder. June 1947. 275.29 V81C
- 3358 WASHINGTON STATE COLLEGE. EXTENSION SERV. Washington's 1947 Dairy Herd Improvement Report. Pullman? 1948? 100 p. 275.29 W27Wd
- 3359 WEST VIRGINIA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Managed milking, by I. D. Porterfield and R. A. Ackerman. Morgantown? 1948. 6 p.-folder. 275.2 W52Mm
- 3360 WILLSON, F. S. Beef cattle improvement through "Bull Indexing." *Tex. Livestock J.* 7(9): 9, 38. Sept. 15, 1948. 49 T29
- 3361 WILSON, J. L. Meat from milking herds. *Hoard's Dairyman* 93: 690-691. Sept. 25, 1948. 44.8 H65
- 3362 WITTERN, K. Zugviehbesatz und bedarf an zugkraft. *Neue Mitt. f. die Landw.* 3: 152. May 21, 1948. 18 N39
- Germany.

## DOGS AND CATS

### Breeds and Breeding

- 3363 BEMIS, R. W. An interpretation and explanation of the official standard of the Irish Terrier. *Dog. World* 33(10): 120; (11): 126. Oct.-Nov. 1948. 48.8 D672
- 3364 CHANDLEY, MRS. J. F. American Eskimo. *Bloodlines* 31(10): 3. Oct. 1948. 48.8 B62
- 3365 CROXTON-SMITH, A. Heads and tails; good features [of dogs] are due to selective breeding. *Field* 192: 215. Aug. 21, 1948. 10 F45

- 3366 DEFRANCE, P. Les différentes races de chiens de berger dans le monde. *Mouton* 3: 41-42. Apr. 10, 1948. 45.8 M86
- 3367 GORDON, D. M. What makes for a good Boxer? *Dog World* 33(10): 88-89; (11): 89. Oct.-Nov. 1948. 48.8 D672
- 3368 KAUFFMAN, R. E. The need for Chihuahua males of quality. *Dog World* 33(11): 128. Nov. 1948. 48.8 D672
- 3369 LYON, A. M. Correct running gear of the Pom. *Dog World* 33(11): 135. Nov. 1948. 48.8 D672
- 3370 SCHWEIZERISCHEN KYNOLGISCHE GESELLSCHAFT. Schweizerisches hunde-stammbuch. Livre des origines suisse. v. 47, 1947. Bern, 1948. 342 p. 48.9 Sch9
- 3371 SIEVER, C. M. How big or little may a good Pointer be? *Dog. World* 33(9): 76. Sept. 1948. 48.8 D672
- 3372 SKELLY, G. F. Inbreeding the Wire. *Dog World* 33(9): 115-116. Sept. 1948. 48.8 D672

## Veterinary Medicine

- 3373 ANDERES, R. L. Nephroma with pulmonary metastasis [in a dog]. *North Amer. Vet.* 29: 654. Oct. 1948. 41.8 N812
- 3374 AZEVEDO, J. F. DE, TELXEIRA, A. W. G., and COITO, A. DE M. F. On the infestation by Leishmania of the dogs of Lisbon. (In Portuguese.) *Inst. de Med. Trop. An.* 4: 99-106. Dec. 1947. 448.9 L68
- French and English summaries.
- 3375 BECKMAN, C. H. Dysuria in dogs and cats. *Vet. Med.* 43: 431-432. Oct. 1948. 41.8 M69
- 3376 BINET, L., BURSTEIN, M., and LEMAIRE, R. Sur quelques réactions vaso-motrices périphériques enregistrées au cours de l'anoxémie et de la réoxygénation chez le chien. *Soc. de Biol. Compt. Rend.* 142: 801-803. June 1948. 442.9 P21
- 3377 BUCHER, G. R., and ANDERSON, A. Uropepsin output in cats treated with caffeine and histamine. *Amer. J. Physiol.* 153: 454-457. Ref. June 1, 1948. 447.8 Am3
- 3378 CANTAROW, A., and MILLER, L. L. Nonexcretion of jaundice-serum alkaline phosphatase in bile of normal dogs. *Amer. J. Physiol.* 153: 444-446. June 1, 1948. 447.8 Am3
- 3379 CARMEN NÚÑEZ, M. DEL, and MAZZOTTI, L. Incidencia de triquinosis en gatos de la ciudad de México. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9(1): 51-54. Mar. 1948. 449.9 M572
- English summary.
- 3380 CASTILLO, J. DEL. El moquillo (brom) de los perros. *Cult. Mod.* 31: 284. Aug. 1948. 15 C89
- 3381 COITO, A. DE M. Contribution to the study of the epidemiology of human hydatid cyste in Portugal. On the degree of infestation of the stray dogs of Lisbon by *Echinococcus granulosus*. (In Portuguese.) *Inst. de Med. Trop. An.* 4: 285-295. Dec. 1947. 448.9 L68
- 3382 CRAIGE, J. E. Differential diagnosis and specific therapy of dysenteries in dogs. *Amer. Vet. Med. Assoc. J.* 113: 343-347. Oct. 1948. 41.8 Am3
- 3383 DUNLAP, G. L. Canine distemper vaccine of epithelial origin. *North Amer. Vet.* 29: 653-654. Oct. 1948. 41.8 N812
- 3384 FANKHAUSER, R. Zur nachhandlähmung beim hunde. *Schweiz. Arch. f. Tierheilk.* 90: 494-503. Sept. 1948. 41.8 Sch9
- French summary.
- 3385 FRIEDMAN, M., and BYERS, S. O. Observations concerning the causes of the excess excretion of uric acid in the Dalmatian dog. *J. Biol. Chem.* 175: 727-735. Ref. Sept. 1948. 381 J824
- 3386 FRIEDMAN, P. Unusual abscess in a dog. *Vet. Med.* 43: 429-430. Oct. 1948. 41.8 M69
- 3387 CARBUTT, R. J. Stainless steel wire used in femur fracture [in a dog]. *Amer. Vet. Med. Assoc. J.* 113: 335-336. Oct. 1948. 41.8 Am3
- 3388 GARNETT, K. J. Common complaints of dogs in Fiji. I. Distemper. *Fiji. Dept. of Agr. Agr. J.* 19: 22-24. Jan. 1948. 25 F47Ag
- 3389 GAUDINO, M., SCHWARTZ, I. L., and LEVITT, M. F. Inulin volume of distribution as a measure of extracellular fluid in dog and man. *Soc. Expt. Biol. & Med. Proc.* 68: 507-511. Ref. July/Aug. 1948. 442.9 Sol



3390 GROSSMAN, M. I., and ROBERTSON, C. R. Inhibition by histaminase of gastric secretion in dogs. *Amer. J. Physiol.* 153: 447-453. Ref. June 1, 1948. 447.8 Am3

3391 GUIDA, V. O. Canine leptospirosis. (In Portuguese.) *Biologico* 14: 135-138. June 1948. 442.8 B529

3392 HALPERN, B. N., and GAUDIN, O. Action de divers cholérétiques sur la composition de la bile chez le chien muni d'une fistule biliaire permanente. *Soc. de Biol. Compt. Rend.* 142: 779-783. June 1948. 442.9 P21

3393 HOUSSEY, B. A., and MARTÍNEZ, C. Alloxan diabetes in dogs with renal pedicles clamped. *Nature [London]* 162: 571. Oct. 9, 1948. 472 N21

3394 HOWARD, J. P., LEVY, L., II, and ADRIANI, J. Effects of intrathecal administration of epinephrine on cardiac rhythm in dogs anesthetized with cyclopropane. *Soc. Expt. Biol. & Med. Proc.* 68: 520-522. July/Aug. 1948. 442.9 S01

3395 KINGMA, F. J. Observations in treating dogs for *Dirofilaria immitis*. (Abs.) *Tex. Vet. B.* 10(8): 5. Aug. 1948. 41.8 T31

3396 KRIEGER, H., and others. A comparative study of blood volume in dogs. *Soc. Expt. Biol. & Med. Proc.* 68: 511-515. July/Aug. 1948. 442.9 S01  
J. P. Storaasli, H. L. Friedell, and W. D. Holden, joint authors.

3397 LANNEK, N. Contribution to the knowledge of the normal electrocardiogram of the dog. (In Swedish.) *Sweden. Veterinärhögsk. Meddel.* 21: 385-421. 1947. 41.9 S6M

English summary.

3398 LONG, L. G. The whelping and worming of Toy dogs. *Dog World* 33(10): 135. Oct. 1948. 48.8 D672

3399 MARTY, J. Ictère infectieux et pénicilline. *Rev. de Méd. Vét. [Toulouse]* 99: 307-309. July 1948. 41.8 R32

In dogs.

3400 MONTPELLIER, J. M., and MONTPELLIER. Le terrain dysmatique et les tumeurs mammaires chez la chienne. *Rev. de Méd. Vét. [Toulouse]* 99: 304-307. July 1948. 41.8 R32

3401 REUTNER, T. F., and GRUHZIT, O. M. Surital sodium, a new anesthetic and hypnotic. Studies in dogs. *Amer. Vet. Med. Assoc. J.* 113: 357-359. Oct. 1948. 41.8 Am3

3402 RICHER, V., and CIER, J. F. Les effets de l'acétylcholine et de l'adrénaline sur le "detrusor urinae" et sur le col vésical chez le chien. *Soc. de Biol. Compt. Rend.* 142: 527-528. Apr. 1948. 442.9 P21

3403 ROBIN, V. Les complications cardio-vasculaires de la néphrite chronique chez le chien. *Rev. de Path. Compar.* 48: 442-445. Aug. 1948. 448.8 R326

3404 RUBARTH, S. An acute virus disease with liver lesion in dogs (hepatitis contagiosa canis); a pathologic-anatomical and etiological investigation. *Sweden. Veterinärhögsk. Meddel.* 21, 221 p. Ref. 1947. 41.9 S6M

3405 SAUNDERS, L. Z. Cutaneous blastomycosis in the dog. A case report. *North Amer. Vet.* 29: 650-652. Oct. 1948. 41.8 N812

3406 SEALY, R. O., JR. Multiple neoplasia with metastasis in a dog. A case report. *Amer. Vet. Med. Assoc. J.* 113: 352-353. Oct. 1948. 41.8 Am3

3407 SEIFFERS, S. M. Leptospirosis in dog. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 109-110. June 1947. 41.8 V51

3408 SEIFFERS, S. M. Some practical hints in case of rabies. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 77-78. June 1947. 41.8 V51

Dogs.

3409 SJOLTE, I. P. On the presence of cytoplasmic and nuclear inclusions in dogs spontaneously infected with distemper. (In Danish.) *Sweden. Veterinärhögsk. Meddel.* 21: 350-364. Ref. 1947. 41.9 S6M

English summary.

3410 STÜNZI, H. Metastasierende schilddrüsen-carcinome des hundes (zugleich eine statistik der hundercarcinome). *Sweden. Veterinärhögsk. Meddel.* 21: 453-482. 1947. 41.9 S6M

French and English summaries.

3411 TEUNISSEN, G. H. B. Tuberculosis in dog and cat. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 614-621. Aug. 1/15, 1948. 41.8 T431

3412 TRENT, S. C. Anthiomaline and neostibosan in the treatment of filariasis (*Dirofilaria immitis*) [in dogs]. *Puerto Rico J. Pub. Health and Trop. Med.* 23: 211-392. Mar. 1948. 448.8 P83

Text also in Spanish, p. 361-392.

3413 TRON, E. Il cane ammalato; nozioni di patologia canina ad uso dei cinofili [The ailing dog; ideas on canine pathology for the use of dog-lovers]. Milano, Hoepli, 1947. 143 p. 41 T752

3414 WESSON, L. G., JR., and ANSLOW, W. P., JR. Excretion of sodium and water during osmotic diuresis in the dog. *Amer. J. Physiol.* 153: 465-474. Ref. June 1, 1948. 447.8 Am3

3415 WEST, G. P. A new canine disease; deadly virus about which little is as yet known. *Field* 192: 327. Sept. 18, 1948. 10 F45

3416 WIERZUCHOWSKI, M., SYSA, J., and DZISIÓW, F. Intravenous glucose transformation during severe muscular exercise in normal dogs. *Soc. Expt. Biol. & Med. Proc.* 68: 549-550. Ref. July/Aug. 1948. 442.9 S01

3417 YOUNG, W. C. Traumatic removal of epiglottitis and uvula. *Amer. Vet. Med. Assoc. J.* 113: 347. Oct. 1948. 41.8 Am3

In a dog.

3418 ZELDNER, J., and MEYER, G. Splenomegaly in a Coonhound. *Vet. Med.* 43: 429. Oct. 1948. 41.8 M69

#### Miscellaneous

3419 AMERICAN KENNEL CLUB. Rules applying to registration and dog shows, amended to October, 1947. New York, 1947. 64 p. 48.9 Am3R

3420 BENNETT, L. J. Training grouse and woodcock dogs. New York, Putnam, 1948. 146 p. 48 B43

3421 BLACKISTON, E. How to train your dog. 4. Teaching him to sit. *Family Circle* 33(4): 10-11. Oct. 1948. 321.8 F21

3422 BROAD, E. G. Rearing and training a sheep dog. *New Zeal. Dept. Agr. B.* 308, 22 p. Wellington, 1948. 23 N48Bu

3423 FULLER, J. L. Observations on the genetic factor in physiological and behavioral characters in dogs. (Abs.) *Anat. Rec.* 101: 695. Aug. 1948. 447.8 An1

3424 GORDON, D. M. The battle between sales and type—or "junk" vs. good type. *Dog World* 33(9): 3, 6. Sept. 1948. 48.8 D672

3425 LANGSHAW, A. H. Connecticut observes National Dog Week; preparing your dog to show. *Conn. Circle* 11(9): 28, 31. Sept. 1948. 280.8 C7632

3426 LARSON, M. Kennel, show and field. New York, Scribner's, 1948. 252 p. 48 L322

3427 LUQUET, M. Le chien ratier; dératisation, sport ratier. Paris, Maison Rustique, 1948. 103 p. 48 L972

3428 LYNCH, V. E. What it takes to make a 'coon dog. *Fur-Fish-Game* 98(11): 38-41. Nov. 1948. 410 F962

3429 ROSS, D. G. El perro ovejero en Australia. *Chacra* 18(215): 115. Sept. 1948. 9 C34

3430 SCOTT, J. P. The development of dominance in litters of puppies. (Abs.) *Anat. Rec.* 101: 696. Aug. 1948. 447.8 An1

3431 VALOUS, J. C. DE. Les chiens errants devant la loi. *Mouton* 2: 25-26. Mar. 10, 1947. 45.8 M86

#### FUR ANIMALS - PEN RAISED

##### Breeds and Breeding

3432 CUMMINGS, R. I. Chinchilla breeders of Canada get new charter. *Fur J.* 14(6): 22. Apr. 1948. 412.628 F969

National Chinchilla Breeders of Canada.

3433 GOTHIER, F. C. How I developed a new strain of mink. *Amer. Fur Breeder* 21(3): 24, 26. (Concl.) Sept. 1948. 410 Am33

3434 IDERHOFF, E. Erfahrungen und erinnerungen aus unserer 10-jährigen nutriaucht. *Deut. Pelztierzucht.* 22: 149-150. Sept. 15, 1948. 412.629 D48

3435 KEMPSON, M. The Two-Tone Natural mink. *Fur-Fish-Game* 98(10): 42. Oct. 1948. 410 F962

3436 KING, A. W. How to produce a Stewart in the Aleutian and other Pastels. *Amer. Fur Breeder* 21(3): 52. Sept. 1948. 410 Am33

Also in *Fur Farming J.* 2(2): 16. Sept./Oct. 1948. 45.8 K142; *Fur-Fish-Game* 98(11): 44-45. Nov. 1948. 410 F962

3437 ROBERTS, J. T. Silverblu mink: the need of selective breeding. *Brit. Fur Trade* 30: 346, 349. Sept. 1948. 412.628 B77



- 3438 SERJEANT, R. B. Does the moon affect mink mating results? *Brit. Fur Trade* 30: 347, 349. Sept. 1948. 412.628 B77
- 3439 STEVENSON, J. H. F. Martens are a wise choice today. *Brit. Fur Trade* 30: 347. Sept. 1948. 412.628 B77
- 3440 TLUSTY, C. The chinchilla. *All-Pets Mag.* 19(9): 67, 68. Sept. 1948. 48.8 AL5
- 3441 ZIESKE, R. Für oder gegen mutationszucht? *Deut. Pelztierzucht.* 22: 142-146. Sept. 15, 1948. 412.629 D48

#### Feeds and Feeding

- 3442 BASSETT, C. F., and WILKE, F. Poultry waste as mink feed. *Natl. Fur News* 20(8): 14, 34. Sept. 1948. 412.628 R59
- Also in *Amer. Natl. Fur & Market J.* 27(4): 5-6. Nov. 1948. 412.629 Am3M
- 3443 BASSETT, C. F. The protein requirement of growing minks. *Amer. Natl. Fur & Market J.* 27(3): 7-8. Oct. 1948. 412.629 Am3M
- 3444 BASSETT, C. F. Some common fallacies in our present mink feeding practices. *Fur Trade J. Canada* 26: 16-17, 28, 30, 32, 34, 36, 38. Sept. 1948. 410 P965
- Also in *Canad. Silver Fox & Fur* 14(9): 10, 12, 14, 16, 18. Sept. 1948. 412.62 C163
- 3445 CLOSE, T. A discussion of minerals and vitamins. I. *Amer. Natl. Fur & Market J.* 27(3): 9, 30. Oct. 1948. 412.629 Am3M
- 3446 CLOSE, T. Mineral mistakes and vitamin vices [in mink feeding]. *Fur J.* 14(11): 8, 25, 28-29. Sept. 1948. 412.628 F969
- Also in *Natl. Fur News* 20(8): 13, 26-31. Sept. 1948. 412.628 R59
- 3447 EASTBURN, E., JR. My opinion on water for mink. *Fur-Fish-Game* 98(10): 41. Oct. 1948. 410 F962
- 3448 FRICK, H. Was ist beim kochen von fleisch zu berücksichtigen? *Deut. Pelztierzucht.* 22: 146-147. Sept. 15, 1948. 412.629 D48
- In feeding foxes and minks.
- 3449 WALTER, H. H. Futterzusätze für pelztier. *Osterr. Kleintierzüchter* 1948: 425-426. Aug. 1948. 49 Os7
- 3450 WILKE, F., and BASSETT, C. F. The value of fat in the diet of growing mink. *Pelletteries du Québec* 19(10): 13. Aug. 1948. 412.628 P36
- Also in French, p. 7.
- Also in *Amer. Fur Breeder* 21(3): 30. Sept. 1948. 410 Am33

#### Veterinary Medicine

- 3451 CHADDOCK, T. T. Keeping your herd alive. *Natl. Fur News* 20(8): 12, 32-33. Sept. 1948. 412.628 R59
- Controlling distemper in minks.
- Also in *Fur J.* 14(11): 12-13, 17. Sept. 1948. 412.628 F969
- 3452 GORHAM, J. R., and QUORTRUF, E. R. Cause of cancer in fur-bearers is not known. *Amer. Natl. Fur & Market J.* 27(4): 13. Nov. 1948. 412.629 Am3M
- 3453 KEAGY, H. F. Caesarean section. *Fur Farming J.* 2(2): 12. Sept./Oct. 1948. 45.8 K142
- On chinchillas.
- 3454 KENNEDY, A. H. Botulinus poisoning in minks. *Canad. Silver Fox & Fur* 14(9): 4-6. Sept. 1948. 412.62 C163
- 3455 KENNEDY, A. H. Studies on neurotropic distemper of foxes. V-VI. *Canad. J. Compar. Med.* 12: 242-255. Sept. 1948. 41.8 C162
- V. Studies on the blood taken at various periods of time before death, from foxes infected with neurotropic distemper, p. 242-251; VI. Blood examination of foxes that suddenly manifested convulsions and died within thirty to thirty-six hours, p. 252-255.
- 3456 PETROV, A. M., and PANYSHEVA, L. V. Phenothiazine in the treatment of Capillaria plica in the bladder of Silver foxes. (In Russian.) *Veterinariia* 25(4): 12. Apr. 1948. 41.8 V6426
- 3457 READ, C. P. Strigeids from Texas mink with notes on the genus *Fibricola* Dubois. *Amer. Micros. Soc. Trans.* 67: 165-168. Apr. 1948. 440.9 Am33
- 3458 STEVENSON, J. H. F. Ear hygiene for Silver foxes. *Brit. Fur Trade* 30: 309. Aug. 1948. 412.628 B77

#### Miscellaneous

- 3459 ASHBROOK, F. G. Your furs have a story: the nutria. *Brit. Fur Trade* 30: 348-349. Sept. 1948. 412.628 B77
- 3460 BENDER, W. P. Endeavor made to cooperate with all branches of industry. *Black Fox Mag.* 32(5): 49, 68, 70. Sept. 1948. 410 B56
- Report of the Executive Committee of the National Board of Fur Farm Organizations.
- 3461 BENESCH, W. Beaver farming. *Fur Farming J.* 2(2): 13, 15. Sept./Oct. 1948. 45.8 K142
- 3462 BOWNESS, E. R. Critical factors in shed construction. *Natl. Fur News* 20(8): 21, 35-41. (Concl.) Sept. 1948. 412.628 R59
- Influence of light on fur production in mink.
- 3463 BURGER, K. We chose nutria. *Fur Farming J.* 2(2): 18. Sept./Oct. 1948. 45.8 K142
- Care.
- 3464 CARTER, J. F. M., and MCNEIL, R. Mink farm in sight of Glasgow's business centre. *Smallholder* 80(2011): 14-15. Oct. 15, 1948. 10 Sm1
- Fur farming in Great Britain.
- 3465 CLARK, P. G. Features of interest in fox farming—past and present. *Fur Trade J. Canada* 26: 12-13, 48-49, 50, 52, 54, 56. Sept. 1948. 410 F965
- 3466 COOK, E. J. Imperial Chinchilla [Ranch] in Idaho. *Fur Farming J.* 2(2): 10-11. Sept./Oct. 1948. 45.8 K142
- 3467 FRANCIS, J. H. What makes the National Board [of Fur Farm Organizations] tick. *Black Fox Mag.* 32(5): 39, 63-65. Sept. 1948. 410 B65
- 3468 GARNER, F. T. Raising South American Chinchillas in Iowa. IV-V. *Small Stock Mag.* 32(10): 32; (11): 38. Oct.-Nov., 1948. 48.8 P442
- Housing and feeding.
- Also in *Fur-Fish-Game* 98(10): 40-41. Oct. 1948. 410 F962
- 3469 GOTTBEBUT, A. H. Environment and contentment for your breeders. *Natl. Chinchilla Breeder* 4(7): 9, 15. Sept. 1948. 412.628 N21
- 3470 LEVINE, D. The fabulous chinchilla. *Good Earth Mag.* 2(11): 6-8. Sept. 1948. 6 G59
- 3471 MICHAELIS, W. L. Fundamentals of successful mink ranching. *Amer. Fur Breeder* 21(3): 56, 58, 60, 62-63. (To be cont.) Sept. 1948. 410 Am33
- 3472 POTVIN, J. B. De passage a la ferme-école. *Pelletteries du Québec* 19(10): 3. Aug. 1948. 412.628 P36
- Research on fur-bearing animals.
- 3473 RITCHIE, J. W. The ranching of marten. *Amer. Fur Breeder* 21(3): 18, 20, 22, 26. (Concl.) Sept. 1948. 410 Am33
- 3474 SCHULZE, G. Einige erfahrungen mit kleinstgehegen bei Silber- und Blaufüchsen. *Deut. Pelztierzucht.* 22: 133-135. Aug. 1948. 412.628 D48
- 3475 SCHWAB, G. R. Raising chinchillas in Canada. *Fur Trade J. Canada* 26: 14, 44. Sept. 1948. 410 P965
- 3476 WEIGL, R. Was wird aus den zuchten und fellpreisen? *Deut. Pelztierzucht.* 22: 119-122. Aug. 1948. 412.628 D48

#### HORSES AND MULES

##### Breeds and Breeding

- 3477 AUSTIN, C. F. A standard for the Morgan horse of today? *Morgan Horse Mag.* 8: 100-103. Aug. 1948. 42.8 M82
- 3478 BLIN, H. La grande vogue du cheval de trait Percheron. *Monit. Agr.* 1(33): 6. Aug. 29, 1948. 14 M744
- 3479 BUDENNYI, S. M. Neotlozhnye zadachi vosstanovleniia i razvitiia konevodstva [Urgent problems in the rehabilitation and development of horse breeding]. *Moskva, Sel'khozgiz*, 1948. 39 p. 42 B85
- 3480 CHEVIGNY, JEAN DE. Breton horses. (In Italian.) *Humus* 4(8): 19-22. Aug. 1948. 16 H88
- 3481 ENGELHARD, J. La race chevaline percheron ne. *Rustica* 21: 614. Aug. 29, 1948. 14 R92
- 3482 FRANCE. MINISTÈRE DE L'AGRICULTURE. *Stud book français. Registre des chevaux de pur sang anglais, nés ou importés en France.* v. 27, 1944/1946. Paris, Pailhé, 1947. 751 p. 42.9 F843
- 3483 FRIEDLAENDER, H. Thoroughbreds of post-war Germany. *Thoroughbred of Calif.* 7(9): 40-41, 89. (Cont.) Sept. 1948. 42.8 T393



- 3484 HERNÁNDEZ ROA, A. El caballo Criollo Cubano. *Rev. Ganad. [Habana]* 8(10): 19-23, 55. Oct. 1948. 49 R321
- 3485 HUTCHINSON, J. More foals—more dollars. *Farmers Weekly [London]* 29(8): 38. Aug. 20, 1948. 10 F2226
- Infertility in the Thoroughbred mare.
- 3486 JENNI, E. Die bisherigen ergebnisse der leistungsprüfungen für zuchthengste in avenches. *Landw. Jahrb. der Schweiz* 62: 471-490. 1948. 17 L23
- French summary.
- 3487 KAPLAN, M. M. The optimum time for breeding mares and cows in relation to their heat cycles. (In Polish.) *Med. Wet.* 4: 441-443. (To be cont.) July 1948. 41.8 M463
- 3488 KILLANIN, LORD. The Connemara pony. *Country Life [London]* 104: 526-527. Sept. 10, 1948. 80 C83
- 3489 KOESTER, F. W. The Koester report on yearling inspection. *Thoroughbred of Calif.* 7(9): 12-13, 90-91. Sept. 1948. 42.8 T393
- 3490 LEON L., V. El caballo chileno de pedigree. *Agrario* 13(400): 6-7, 16. Apr. 1948. 9.3 Ag85
- 3491 LOWRY, B. Fingerprinting Thoroughbreds. *Thoroughbred of Calif.* 7(9): 32-33, 97. Sept. 1948. 42.8 T393
- 3492 NYE, N. C. Demand and the Quarter Horse. *West. Live Stock* 34(2): 33, 40, 42, 44. Sept. 1948. 49 W523
- 3493 PÄRLI. Die leistungsprüfungen von zuchthengsten im jahre 1948. *Grüne* 76: 890-891. Aug. 1948. 17 Sch9
- In Switzerland.
- 3494 PURNER, F. High national rank for California breeding and racing. *Thoroughbred of Calif.* 7(9): 44, 91. Sept. 1948. 42.8 T393
- 3495 REYNOLDS, F. Two of N. M.'s greatest Quarter Horse bloodlines trace back to Peter McCue. *N. Mex. Stockman* 13(10): 74-75. Oct. 1948. 49 N462
- 3496 SAENZ PENA, G. L. Observaciones sobre la cria del sangre pura de carreras en Argentina. *Agr. y Ganad.* 24(8): 9-11. Aug. 31, 1948. 8 Ag834
- 3497 SOLANET, E. La raza criolla. *Chacra* 18 (215): 22-23. Sept. 1948. 9 C34
- Horses.
- 3498 UNDERWOOD, T. R., ed. *Thoroughbred racing & breeding, the story of the sport and background of the horse industry.* Ed. 4. New York, Coward-McCann, 1948. 249 p. Ref. 42 Un22
- 3499 UNITED STATES TROTTERING ASSOCIATION. Annual year book, trotting and pacing in 1947. Statistical tables of new and reduced standard-record performers of 1947, tables of sires and dams of such performers, and a roster of all 2.05 performers. v. 60, pt. 2, supplemented by v. 37 of The trotting register. 197, 307 p. Hartford, 1948. 42.9 W15Y
- 3500 VÁZQUEZ, I. El caballo "Palomino" en California. *Ganadería [Madrid]* 6: 318-319. June 1948. 49 G15
- 3501 WILSON, B. Random reflections on Thoroughbreds and Quarter Horses. *Amer. Hereford J.* 39(10): 40-41, 136-137. Sept. 15, 1948. 43.8 Am32
- 3502 ZAPPE, H. A. Southwest Palominos; great golden horses are found in all of the Western States. *West. Livestock J.* 26(54): 154, 156-158. Sept. 15, 1948. 6 F2278
- Veterinary Medicine**
- 3503 ABRAMOV, S. A. Experimental trypanosomiasis in asses. (In Russian.) *Veterinariia* 25(3): 13-14. Mar. 1948. 41.8 V6426
- 3504 ALEKSEENKO, F. M. Detection of trypanosomes [Trypanosoma equiperdum] in dourine in horses. (In Russian.) *Veterinariia* 25(3): 10-12. Mar. 1948. 41.8 V6426
- 3505 BAKKER, S., and ZUYDAM, D. M. Penicillin treatment of neck fistula in horses. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 690-691. Sept. 1/15, 1948. 41.8 T431
- 3506 BELTRÁN, J. M. La inutilización de los équidos para el trabajo. *Ganadería [Madrid]* 6: 297-300. June 1948. 49 G15
- Diseases and disabilities of horses, asses, and mules.
- 3507 BOROVKOVA, A. M. Epizootiology of Dictyocaulus [arnfieldi] in horses. (In Russian.) *Veterinariia* 25(4): 13-14. Apr. 1948. 41.8 V6426
- 3508 BRITTON, J. W. Strangles. *Thoroughbred of Calif.* 7(9): 34, 93. Sept. 1948. 42.8 T393
- 3509 BRUNER, D. W., EDWARDS, P. R., and HULL, F. E. Equine virus abortion vaccine. *Blood-Horse* 53: 666. Sept. 11, 1948. 42.8 T392
- 3510 CARTER, G. R., and ARNOLD, R. M. An azoturia-like condition in mares eating guango (Pithecolobium saman, Benth) pods in Jamaica. *Canad. J. Compar. Med.* 12: 255-259. Sept. 1948. 41.8 C162
- 3511 CHERNIAK, V. Z., and GUSEV, A. A. Mycosis of the air sacs in horses. (In Russian.) *Veterinariia* 25(3): 20-21. Mar. 1948. 41.8 V6426
- 3512 DAVIS, R. W., and EPLING, G. P. Verminous aneurysm of the anterior mesenteric artery in a filly. *Amer. Vet. Med. Assoc. J.* 113: 339-342. Oct. 1948. 41.8 Am3
- Due to Strongylus vulgaris.
- 3513 DESOUTTER. L'eau et la typho-anémie des équidés. *Acad. d'Agr. de France. Compt. Rend.* 34: 651-654. May 19/26, 1948. 14 P215Bc
- Discussion, p. 654-655.
- 3514 DOLL, E. R., and WALLACE, M. E. Dosage and serum level of streptomycin in horses. *Vet. Med.* 43: 410-413. Oct. 1948. 41.8 M69
- 3515 DOLL, E. R., HULL, F. E., and BRUNER, D. W. An old germ meets a new master. Sleeper foals and streptomycin. *Blood-Horse* 54: 144, 147. Oct. 23, 1948. 42.8 T392
- Joint ill in foals, due to Shigella equirulis.
- 3516 DOMANSKY, F. A contribution to the haematological diagnosis of infectious anemia [in horses] and to its therapy. (In Czech.) *Časopis Českoslov. Vet.* 3: 493-497. Ref. Sept. 10, 1948. 41.8 C27
- English and French summaries.
- 3517 DONALD, D. E., and ELLIOTT, F. J. Auricular fibrillation in horses. *Vet. Rec.* 60: 473-474. Oct. 2, 1948. 41.8 V641
- 3518 DONIGIEWICZ, K. Inversion of the bladder in a mare during parturition and its necrosis. (In Polish.) *Med. Wet.* 4: 378-381. June 1948. 41.8 M463
- 3519 ECKELL, O. A. El enfisema pulmonar o asma de los caballos. *Aberdeen Angus [Buenos Aires]* 1948 (39): 60-61. Winter 1948. 43.8 Ab33
- 3520 ELIASIEWICZ, R. Remarques sur la thrombose de l'artère pulmonaire. (In Polish.) *Med. Wet.* 4: 350-355. Ref. June 1948. 41.8 M463
- French summary.
- In a horse and in a dog.
- 3521 FEY, H. Zur Feuertherapie des pferdes; vergleichendhistologische untersuchungen. Zürich, 1947. 70 p. 41.2 F433
- Inaug.-Diss.-Zürich.
- 3522 FLOWER, E. P. Encephalomyelitis, Eastern type, in Louisiana. *New Orleans Med. & Surg. J.* 101: 112-114. Sept. 1948. 44.8 N47
- 3523 GASKA, A. Retention of after-birth in a mare. (In Polish.) *Med. Wet.* 4: 437-438. July 1948. 41.8 M463
- 3524 GONZÁLEZ CUBILLO, J. Divulgaciones ganaderas; el cólico en los equinos. *Ceres [Valladolid]* 13 (146): 7, 9. Aug. 1, 1948. 15 C33
- 3525 GUYON, C. L'éparvin osseux du cheval. *Monit. de la Mécan. Rurale* 41: 239. Aug. 1948. 58.8 M74
- 3526 ILLARTEIN, M., SAURAT, P., and VERGE, J. Recherches sur la tuberculisation intra-cutanée chez les équidés apparemment indemmes de tuberculose. *Paris. Acad. des Sci. Compt. Rend.* 227: 448-450. Aug. 18, 1948. 505 P21
- 3527 JANISZEWSKI, J. Some notes on the diagnosis of dourine. (In Polish.) *Med. Wet.* 4: 437. July 1948. 41.8 M463
- 3528 KHARCHENKO, M. D. A suture for wounds in the withers area after an operation by Merillat's method. (In Russian.) *Veterinariia* 25(3): 21-24. Mar. 1948. 41.8 V6426
- 3529 KLESOV, M. D., and POPOVA, Z. G. Phenothiazine—new anthelmintic against Strongylus and Trichonema in horses. (In Russian.) *Veterinariia* 25(4): 9-11. Apr. 1948. 41.8 V6426
- 3530 KRANEVELD, F. C., and DJAENOEDIN, R. Effect of prophylactic injection of Naganol in horses in the incubation period of surra. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55(1/2): 57-73. Apr. 1948. 41.8 V51
- 3531 KRANEVELD, F. C., and DJAENOEDIN, R. Hair fall in horses after feeding with lamtoro (Leucaena glauca). (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 170-180. Oct. 1947. 41.8 V51
- English summary.



3532 KRANEVELD, F. C., and DJAENOEDIN, R. Tests on the persistence of infectivity in horses suffering from surra and treated therapeutically with Naganol and Arsocol. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55(1/2): 1-27. Apr. 1948. 41.8 V51  
English summary.

3533 KRIVOSHTA, E. E. Experiment in ridding sucking foals of Anoplocephala. (In Russian.) *Veterinariia* 25(4): 21-23. Apr. 1948. 41.8 V6426

3534 KRUPSKI, A. Zur frage der streptokokkenanämie beim pferd. *Schweiz. Arch. f. Tierheilk.* 90: 484-494. Ref. 1948. 41.8 Sch9

3535 MASLOV, T. M. Wholesale treatment of strongyloidosis, parascariidosis and filariasis in horses. (In Russian.) *Veterinariia* 25(4): 16-18. Apr. 1948. 41.8 V6426

3536 MILLER, M. The muscles of the horse. *Westralian Farmers' Co-op. Gaz.* 14(359): 19-21. July 1948. 280.28 W522

3537 PANASTUK, D. I. Use of Rivanol in treatment of stomach and intestinal diseases in horses. (In Russian.) *Veterinariia* 25(4): 30-31. Apr. 1948. 41.8 V6426

3538 PIETTRE, M. L'eau est-elle par elle-même à l'origine de l'anémie pernicieuse du cheval? *Acad. d'Agr. de France. Compt. Rend.* 34: 655-656. May 19/26, 1948. 14 P215Bc

3539 PLAKHOTIN, M. V. Some peculiarities in in stopping hemorrhages from the large vessels of the crupper and thigh region of the horse. (In Russian.) *Veterinariia* 25(5): 17-20. May 1948. 41.8 V6426

3540 POTEKIN, V. I., and SHCHERBININ, I. V. Treatment of parafilariasis in horses with tartar emetic. (In Russian.) *Veterinariia* 25(4): 14-15. Apr. 1948. 41.8 V6426

3541 SAMORODOV, D. M. Mud therapy in veterinary practice. (In Russian.) *Veterinariia* 25(5): 13-16. May 1948. 41.8 V6426

Application of soft mud from Tambukan Lake in the treatment of eczema, periphlebitis and the reproductive organs of horses.

3542 SANDERSON, C. J. Horse's teeth must be in good condition to ensure correct feeding. *Land [Sydney]* 1916: 18. July 30, 1948. 23 L22

3543 SANDERSON, C. J. Some common ailments of foals. *Land [Sydney]* 1920: 18. (Cont.) Aug. 27, 1948. 23 L22

3544 SEMUSHKIN, N. R. Alkaline solution of red Streptocide. (In Russian.) *Veterinariia* 25(3): 29-30. Mar. 1948. 41.8 V6426

Its use in horse therapy.

3545 SENZE, A., and WANDOKANTY, F. Successful treatment with insulin of a case of tetanus in a horse. (In Polish.) *Med. Wet.* 4: 376-378. June 1948. 41.8 M463

English summary.

3546 STUTINSKY, F. Présence de terminaisons sensitives périvasculaires dans la pars tuberalis de l'hypophyse de cheval. *Soc. de Biol. Compt. Rend.* 142: 442-443. Apr. 1948. 442.9 P21

3547 SZAFLARSKI, J. Two rare cases of the isolation of Brucella abortus from the aborted fetuses of mares. (In Polish.) *Med. Wet.* 4: 368-374. Ref. June 1948. 41.8 M463

3548 TEREKHOV, P. F. Lumbar Novocain block in the treatment of colic in horses. (In Russian.) *Veterinariia* 25(3): 17-20. Mar. 1948. 41.8 V6426

3549 VELICHKIN, P. A., LOGGINOV, V. P., and ANTONOV, V. A. Experimental treatment of strongyloidosis and parascariidosis in horses with phenothiazine. (In Russian.) *Veterinariia* 25(4): 5-9. Apr. 1948. 41.8 V6426

3550 VENEZUELA. DIRECCIÓN DE GANADERIA. La anemia infecciosa del caballo, por Carlos Ruiz Martínez. *Caracas*, 1948. 39 p. Ref. 41 V55A

3551 ZOLOTAREV, N. A., and ROZHKOV, F. V. Morphological variability of Piroplasma caballi in dead horses. (In Russian.) *Veterinariia* 25(5): 6-12. May 1948. 41.8 V6426

#### Miscellaneous

3552 AKERBLOM, E. Hoof care associations. (In Swedish.) *Lantbrukstidskr. för Dalarna* 1948: 143. Aug. 1948. 11 L29

Horses.

3553 ASOCIACION DE CRIADORES Y PROPIETARIOS DE CABALLOS PERUANOS DE PASO. Los pisos del caballo peruano. *Agronomia [Lima]* 13(53): 5-7. 1948. 9.8 Ag83

3554 BOHORQUEZ C., J. J. Los antiguos caballos tenían varios dedos y tamaño de zorra. La historia del caballo. *Rev. Ganad. [Habana]* 8(10): 48-52. Oct. 1948. 49 R321

3555 CAROLIS, V. DE. Heredity and effect of environment on draft horses. (In Italian.) *Humus* 3(8): 13-14. Aug. 1947. 16 H88

3556 CASA-PACHECO, MARQUES DE. Un ligero comentario. *Ganaderia [Madrid]* 6: 264. May 1948. 49 G15

On Spanish horses.

3557 CUEVAS GARCÍA, E. Aires de marcha del caballo criollo de paso. *Rev. Agr. y Ganad.* 10(107): 13. Aug./Sept. 1948. 9.4 R327

3558 EDWARDS, C. L. Breaking colts requires intelligence and tact on the part of the trainer for success. *Morgan Horse Mag.* 8: 104-107. Aug. 1948. 42.8 M82

3559 EDWARDSON, J. Mare and foal. *Young Farmer* 16: 143-146. Sept./Oct. 1948. 10 Y8

First of a series on the birth and rearing of animals.

3560 FOREMAN, M. Horse handling science. *Cattleman* 35(5): 86, 88-89. Oct. 1948. 45 C29

3561 GOY DE L'EPERON, L. Es inteligente el caballo? *Rev. Agr. y Ganad.* 10(106): 22. June/July 1948. 9.4 R327

3562 JIMÉNEZ ARRECHEA, S. La nobleza del caballo. *Rev. Agr. y Ganad.* 10(107): 3-5. Aug./Sept. 1948. 9.4 R327

3563 KERN, P. Leistungsprüfungen in der pferdezucht. *Neue Mitt. f. die Landw.* 3: 151. May 21, 1948. 18 N39

3564 KLAUTKY, B. Gesunderhaltung der pferde durch richtige pflege und fütterung. *Tierzucht* 2: 65-66. Apr./May 1948. 49 T443

3565 LEONARD, H. Caballos de paso castellano. *Rev. Agr. y Ganad.* 10(107): 15-16, 18-19. Aug./Sept. 1948. 9.4 R327

3566 MACEWAN, J. W. G. New look in farm horses; a lighter type of draft horse is coming into popular demand across Canada. *Family Herald & Weekly Star* 79(42): 3, 17. Oct. 20, 1948. 7 F21

3567 MERKUSHEV, A. V. Some features in shoeing of horses. (In Russian.) *Veterinariia* 25(4): 35-36. Apr. 1948. 41.8 V6426

3568 RAMIREZ DE ARELLANO, G. A. El caballo de paso fino de Puerto Rico. *Almanaque Agr. de Puerto Rico* 1947: 143-155. 8 AL62

3569 SAUNIE. Elevage du cheval et du mulet. *Terre Maroc.* 18: 213-214. Aug. 1948. 24 T44

#### LABORATORY ANIMALS, SMALL

##### Breeds and Breeding

3570 FERNANDES, O. E. Z. Breeding of laboratory animals. II: Cotton rat. (In Portuguese.) *Chacaras e Quintais* 78: 167-169. Aug. 15, 1948. 9.2 C34

3571 SCANLAN, C. M. Hamster raising as a profitable hobby. *All-Pets Mag.* 19(9): 68. Sept. 1948. 48.8 AL5

##### Feeds and Feeding

3572 DIETRICH, I. W. Buckwheat the best feed for mice. *Amer. Rabbit J.* 18: 102. Aug. 1948. 40.28 Am3

##### Veterinary Medicine

3573 BELL, F. R., and DUDGEON, J. A. An epizootic of influenza in a ferret colony. *J. Compar. Path. & Ther.* 58: 167-171. July 1948. 41.8 J82

3574 CHEN, C. J., and ZIA, S. H. Study of fixed rabies virus propagated in the brain of guinea pig fetus. *J. Immunol.* 60(1): 17-21. Sept. 1948. 448.8 J8232

3575 LEVY, M. L. Listeria monocytogenes in voles. *Vet. J.* 104: 310-312. Sept. 1948. 41.8 V643

3576 MARSH, D. F. A convenient apparatus for recording the blood pressure of small animals. *Science* 108: 393. Oct. 8, 1948. 470 Sci2

##### Miscellaneous

3577 MARSH, A. F. What is a hamster? *Fur Farming J.* 2(2): 19. Sept./Oct. 1948. 45.8 K142



## POULTRY

## Breeds and Breeding

3578 ADAMS, R. J. Formula for fast feathering. *Canad. Poultry Rev.* 72(10): 5-7. Oct. 1948. 47.8 C16  
Genetics of a strain of Barred Rocks.

3579 ALEXANDER, A. K. S. Some advice to the new [poultry] breeder. *Farmer & Stock-Breeder* 62: 2319. Oct. 5, 1948. 10 F228

3580 ALPETER, E. Types in Fantails. *Pigeon News* 54(932): 15. Oct. 1948. 47.8 P621

3581 AMSDEN, J. A plan to produce long distance layers. *Mod. Poultry Keeping* 59: 256-257. Sept. 15, 1948. 47.8 Eg3  
Breeding program.

3582 ARCHES, M. D'. Faut-il croiser les volailles? *Monit. Agr.* 1(24): 18. June 27, 1948. 14 M744

3583 ASMUNDSON, V. S. Inheritance of body weight and conformation in Bronze turkeys and problem of selecting breeding turkeys. (Abs.) *Poultry Sci.* 27: 651-652. Sept. 1948. 47.8 Am33P

3584 ASMUNDSON, V. S. Turkey breeder selection. *Calif. Turkey News* 1948: 15, 44-46. Sept. 1948. 47.38 C12

3585 AYBAR Z., A. Decalogo de un criador de gallos de pelea. *Agr. y Ganad.* 24(8): 21-23. Aug. 31, 1948. 8 Ag834

3586 BARTON, O. A. Chicken-of-Tomorrow; contest results. *Dakota Farmer* 68(17): 8. Sept. 4, 1948. 6 D14

3587 BLACKWELL, H. L. Selecting breeders by individual merit. *Mod. Poultry Keeping* 59: 351. Oct. 13, 1948. 47.8 Eg3

3588 BLOUNT, W. P. Battery hens as breeders? *Poultry World* 83: 242. Oct. 8, 1948. 47.8 P8682

3589 BOLTON, J. W. Fantails and fancies—yours and ours. *All-Pets Mag.* 19(9): 62-63. (Concl.) Sept. 1948. 48.8 AL5

3590 BUCKINGHAM, R. D., and JAAP, R. G. Comparison of productive efficiency in six varietal strains. (Abs.) *Poultry Sci.* 27: 654-655. Sept. 1948. 47.8 Am33P

3591 BURGMEYER, J. Geflügelzüchtung. *Geflügelhof* 11: 571-572. Sept. 10, 1948. 47.8 G276

3592 CAMPBELL, H. L. Beard Tumblers. *Pigeon News* 54(932): 7. Oct. 1948. 47.8 P621

3593 CAMPBELL, H. L. A discussion on African Owls. *Amer. Pigeon J.* 37: 229-230. Sept. 1948. 47.8 Am35

3594 COUCH, V. M. The Cornish Bantams. *All-Pets Mag.* 19(9): 57. Sept. 1948. 48.8 AL5

3595 DARROW, M. I., and KOONZ, C. H. A comparison of the broiler characteristics of twelve White Plymouth Rock strains. (Abs.) *Poultry Sci.* 27: 657-658. Sept. 1948. 47.8 Am33P

3596 DAVIS, G. T. The influence of continuous light on reproductive performance in turkeys. (Abs.) *Poultry Sci.* 27: 658. Sept. 1948. 47.8 Am33P

3597 DEARSTYNE, R. S., and BOSTIAN, C. H. Breeding for more eggs; selection for non-broodiness boosts production. *Turkey World* 23(10): 16, 70-72. Oct. 1948. 47.38 T84

3598 DIECKMAN, C. H. Not opposed to stained beaks in Rollers. *Amer. Pigeon J.* 37: 228-229. Sept. 1948. 47.8 Am35

3599 DUDLEY, F. J. Experiments in top-crossing poultry. *Mod. Poultry Keeping* 59: 232-233. Sept. 8, 1948. 47.8 Eg3

Summary of paper given at World's Poultry Congress, Copenhagen.

3600 DUDLEY, F. J., and PEASE, M. S. Top-crossing experiment [poultry]. *Poultry [London]* 103: 210. Sept. 14, 1948. 47.8 P869

Summary of paper given at World's Poultry Congress, Copenhagen.

3601 EDMONDSON, T. There is a laying type. *Poultry Farmer [London]* 119(3091): 4. Oct. 1, 1948. 47.8 F312

3602 ELLIS, W. Hatching eggs built the Towle. *Poultry Farms.* N. H. Breeder 11(3): 8-10. Sept. 1948. 47.8 N45

3603 FERRAND, R. H., JR., and BOHREN, B. B. The effect of low carotenol diets on the fertilizing capacity of fowl sperm. (Abs.) *Poultry Sci.* 27: 662. Sept. 1948. 47.8 Am33P

3604 GUHL, A. M., and EATON, R. C. Inheritance of aggressiveness in the fowl. (Abs.) *Poultry Sci.* 27: 665. Sept. 1948. 47.8 Am33P

3605 GUNTHER, H. Der hahnenschrei! Kleintier-Zücht. Tierbörse 2(41): 3. Aug. 10, 1948. 49 K672  
Poultry breeding.

3606 HANNAFOR-SHAFFER, N. T. The Short Face Tumbler. *Pigeon News* 54(931): 4, 17. Sept. 1948. 47.8 P621

3607 HANNAS, R. R. Chicken-of-Tomorrow facts. *Amer. Poultry J.* 79(9): 10. Sept. 1948. 47.8 Am32

3608 HARTMAN, R. C. How Vantress produced the top meat birds; pedigree breeding and progeny testing employed to develop two lines of birds for crossing. *Pacific Poultryman* 52(9): 7, 26-27. Oct. 1948. 47.8 P112

3609 HEPBURN, J. M. White Leghorns and Barred Rocks; three categories in White Leghorns cover standard, dual purpose, and commercial. *Austral. Farm & Home* 57(8): 88. Aug. 2, 1948. 23 Au7

3610 HIXSON, F. M. A comparison of methods of selecting for increased egg production. (Abs.) *Poultry Sci.* 27: 668. Sept. 1948. 47.8 Am33P

3611 HOEKZEMA, J. P. Hybrid chick production is interesting and difficult. *Ind. Farmers Guide* 104(19): 2, 7. Oct. 1, 1948. 6 In2

3612 HOWES, H. Cockerel-breeding will pay those with good stock. *Smallholder* 79(2007): 16. Sept. 17, 1948. 10 Sm1

3613 HOWES, H. We must be realistic about new [poultry] breeds. *Smallholder* 80(2009): 17. Oct. 1, 1948. 10 Sm1

3614 HUGHES, C. E. Conquest of the hybrid hen. *Successful Farming* 46(10): 33, 195-197. Oct. 1948. 6 Sul2

3615 JAAP, R. G. Crosses find their niche; they are not all alike, and they do not lessen the need for good breeding or careful selection. *Poultry Tribune* 54(9): 14, 36-38. Oct. 1948. 47.8 P8642

3616 JAMES, F. Smaller turkey for small families. *Family Herald & Weekly Star* 79(36): 16, 22. Sept. 8, 1948. 7 F21

Breeding for size at the Dominion Experiment Station, Saskatchewan.

3617 JEFFREY, F. P. Mass selection in your breeding program. *N. H. Breeder* 11(3): 11, 29. Sept. 1948. 47.8 N45  
Poultry.

3618 JOYCE, A. Brown eggs are inherited; feeding and environment do not produce the deep shell pigment. *Poultry World* 83: 191. Sept. 17, 1948. 47.8 P8682

3619 LITTLETON, R. W. The Antwerp—a fancy and utility breed. *Amer. Pigeon J.* 37: 228. Sept. 1948. 47.8 Am35

3620 LOOMIS, A. P. No reason to destroy streamlined Leghorn cockerels today. *U. S. Egg & Poultry Mag.* 54(10): 16-17. Oct. 1948. 286.85 Eg3

3621 MCAREE, J. V. Exhibiting Rollers hurts the breed. *Amer. Pigeon J.* 37: 230. Sept. 1948. 47.8 Am35

3622 MACILRAITH, J. J. Report on 1948 fertility tests. *Calif. Turkey News* 1948: 23. Sept. 1948. 47.38 C12

Turkeys.  
3623 MACKLIN, H. P. Pigeon portraits; Komorner Tumbler. *Amer. Pigeon J.* 37: 226-227, 231. Sept. 1948. 47.8 Am35

3624 MACKLIN, H. P. Pigeon portraits; the Hollander. *Amer. Pigeon J.* 37: 194-195. Aug. 1948. 47.8 Am35

3625 MARBLE, D. R. Some birds are not suitable for breeding purposes regardless of trapnest records. *Poultry Supply Dealer* 25(10): 28-30. Oct. 1948. 47.8 B11

3626 MARSDEN, S. J. An outline for selecting breeding turkeys. *U. S. Bur. Anim. Indus. A.H.D.* 113, rev., 4 p. Sept. 1948. 1.9 An52Ah

3627 MASSEY, J. H., and HOFFMANN, E. Crosses between New Hampshires and Rhode Island Reds for broiler production. (Abs.) *Poultry Sci.* 27: 673. Sept. 1948. 47.8 Am33P

3628 MAW, A. J. G. Performance of certain inbred crosses. (Abs.) *Poultry Sci.* 27: 674. Sept. 1948. 47.8 Am33P

As to egg production.  
3629 MERCER, W. B., LOUCH, R. E., and GREEN, J. A. Poultry breeding at Reaseheath, a ten years' survey. *Gt. Brit. Min. Agr. Agriculture* 55: 216-220. Aug. 1948. 10 G79J



3630 MOORE, F. Day to day experiences of the turkey breeder. *Turkey World* 23(9): 32-33, 35-36. Sept. 1948. 47.38 T84

3631 MORRIS, R. C. Dual purpose Hamps can make a pound of meat for three of feed. *N. H. Breeder* 11(3): 6-7, 26. Sept. 1948. 47.8 N45

3632 MUELLER, C. D. The importance of artificial insemination for progeny test breeding. (Abs.) *Poultry Sci.* 27: 678. Sept. 1948. 47.8 Am33P

3633 MUNRO, S. S. Two years of Leghorn breeding program; results of tests bring added confidence in excellence of F crosses, increase in production 4 per cent over 1947. *Co-op Chick News* 19(9): 4, 16-17. Sept. 1948. 47.8 C783

3634 NORDSKOG, A. W., and ARVIDSON, R. B., JR. Experimental design for testing performance of hybrids. (Abs.) *Poultry Sci.* 27: 678-679. Sept. 1948. 47.8 Am33P

3635 NORDSKOG, A. W., and PHILLIPS, R. E. Pigmentation loss as related to fecundity in White Leghorns. (Abs.) *Poultry Sci.* 27: 679. Sept. 1948. 47.8 Am33P

3636 O'STEEN, A. W., and others. They like Hamps at the laying tests. *N. H. Breeder* 11(3): 16-17, 27. Sept. 1948. 47.8 N45

T. Higgins, T. W. Noland, P. J. Turek, C. Ems, and D. H. Horton, joint authors.

3637 PEASE, M. Crossing inbred lines; results of a fifteen-year inquiry at the Northern Breeding Station, Reaseheath. *Poultry World* 83: 173-174. Sept. 10, 1948. 47.8 P8682

3638 PEELE, F. E. Turkeys for all purposes. *Mod. Poultry Keeping* 59: 299. Sept. 29, 1948. 47.8 Eg3 Breeds.

3639 QUINN, J. P., GODFREY, A. G., and LEE, A. R. Breeding for high and low incidence of blood spots in eggs of Rhode Island Reds. (Abs.) *Poultry Sci.* 27: 680. Sept. 1948. 47.8 Am33P

3640 ROMER, R. R. Geflügelzucht und -haltung in Deutschland. *Geflügelhof* 11: 556-558. Sept. 3, 1948. 47.8 G276

3641 SAMPAIO, O. The golden trio of the hen house. (In Portuguese.) *Chacaras e Quintais* 78: 195-197. Aug. 15, 1948. 9.2 C34

The White Leghorn, the Rhode Island Red, and the Barred Plymouth Rock.

3642 SCHMID, G. Das problem der zuchthähne. *Geflügelhof* 11: 575-576. Sept. 10, 1948. 47.8 G276

3643 SCHNETZLER, E. E. Hybridization of poultry. *Poultry Digest* 7: 646-649. Nov. 1948. 47.8 N219

3644 SHOFFNER, R. N. Performance of "in-crosses" among lines of Leghorns. I. Hatchability. (Abs.) *Poultry Sci.* 27: 683. Sept. 1948. 47.8 Am33P

3645 SMETNEV, S. Breeds of chickens. (In Russian.) *Kolkhoz. Proizvod.* 8(5): 37-38. May 1948. 281.8 K83

3646 TAYLOR, L. W. The "new look" in genetics and breed standards. *Natl. Poultry Digest* 7: 541-543. Sept. 1948. 47.8 N219

3647 TINDALL, C. Just what are they, and what can you expect of hybrid chicks? *Mo. Ruralist* 89(19): 7, 30. Oct. 9, 1948. 6 R8891

3648 VICKERS, G. S. White egg premiums increase popularity of Leghorns in Ohio. *Poultry Supply Dealer* 25(10): 24-26. Oct. 1948. 47.8 B11

3649 WHITTLE, T. E. New approach to [poultry] breeding. *Farming News & North Brit. Agr.* 100(41): 19. Oct. 1, 1948. 10 N82

3650 WILSON, C. M. Hyline chickens. *Iowa Bur. Farmer* 12(9): 24-25. Sept. 1948. 275.293 Iowa Hybrid poultry.

3651 YOHE, R. S. Hybrid chickens—how soon, how good? *Prairie Farmer*, Gen. Ed. 120(21): 1, 44, 45, 53. Oct. 9, 1948. 6 P883

3652 ZUMBRO, P. B. Outline of the National Turkey Improvement Plan; revised. *Turkey World* 23(10): 50-53. Oct. 1948. 47.38 T84

3653 ZUMBRO, P. B. Progress of the National Turkey Improvement Plan. Fewer hatcheries and flocks were enrolled, but there was more pedigree breeding done in 1948. *Turkey World* 23(10): 54-55. Oct. 1948. 47.38 T84

3654 ZURTH-RAVENSBURG, E. Gimpel [Archangel] in aller welt. *Kleintier-Zücht. Tierbörse* 2(42): 4-5. Aug. 25, 1948. 49 K672

### Feeds and Feeding

3655 ADLER, B. Alfalfa meal as a part of a turkey growing mash. (Abs.) *Poultry Sci.* 27: 651. Sept. 1948. 47.8 Am33P

3656 ALEXANDER, A. K. S. Geese on the [corn] stubbles. *Farmer & Stock-Breeder* 62: 2207. Sept. 21, 1948. 10 F228

3657 ALEXANDER, A. K. S. Health and good feeding. *Farmer & Stock-Breeder* 62: 2095. Sept. 7, 1948. 10 F228

Poultry feeding.

3658 ALEXANDER, A. K. S. Some seasonal [poultry] problems. Too much fruit, [and] egg eating on the stubbles. *Farmer & Stock-Breeder* 62: 2263. Sept. 28, 1948. 10 F228

3659 ANDERSON, J. O., and BRIGGS, G. M. Chickens' preference for feed as influenced by its color. (Abs.) *Poultry Sci.* 27: 651. Sept. 1948. 47.8 Am33P

3660 BARLOW, J. S., SLINGER, S. J., and ZIMMER, R. P. The reaction of growing chicks to diets varying in sodium chloride content. *Poultry Sci.* 27: 542-552. Ref. Sept. 1948. 47.8 Am33P

3661 BARTON, O. A. Feeding new grains to poultry. *Dakota Farmer* 68(19): 16. Oct. 2, 1948. 6 D14

3662 BERG, L. R., and BEARSE, G. E. The effect of iodinated casein and thiouracil on the performance of White Leghorn pullets. (Abs.) *Poultry Sci.* 27: 653. Sept. 1948. 47.8 Am33P

3663 BERG, L. R., and BEARSE, G. E. Studies of the granulation of chicken laying mashers. (Abs.) *Poultry Sci.* 27: 653. Sept. 1948. 47.8 Am33P

3664 BLAKELY, R. M., and ANDERSON, R. W. Studies with rape-seed oilcake meal. I-II. *Sci. Agr.* 28: 393-402. Ref. Sept. 1948. 7 Sci2

I, The effect of various levels of rape-seed oilcake meal in the diet on the weight of the thyroid glands of turkey poults; II, The effect of the inclusion of Protamone in the diet, on the thyroid enlargement induced by the feeding of rape-seed oilcake meal to turkey poults.

3665 BORCHERS, R., ACKERSON, C. W., and MUSSEHL, F. E. Trypsin inhibitor. VI. Effect of various heating periods on the growth promoting value of soybean oil meal for chicks. *Poultry Sci.* 27: 601-604. Sept. 1948. 47.8 Am33P

3666 BORCHERS, R. The trypsin inhibitor of soybeans and its effect on chick growth. (Abs.) *Poultry Sci.* 27: 654. Sept. 1948. 47.8 Am33P

3667 BRIGGS, G. M., GROSCHKE, A. C., and LILLIE, R. J. Nicotinic acid. *Flour & Feed* 49(5): 29. Oct. 1948. 298.8 F66

In poultry nutrition.

3668 BROWN, S. O., WILKENING, M. C., and SCHWEIGERT, B. S. Some histological manifestations of a tryptophan deficiency in the chick. *Soc. Expt. Biol. & Med. Proc.* 68: 672-675. Ref. July/Aug. 1948. 442.9 Sol

3669 CARVER, J. S., and HENDERSON, W. The effect of rutin and ascorbic acid and of alfalfa on blood and meat spots in hens' eggs. (Abs.) *Poultry Sci.* 27: 656. Sept. 1948. 47.8 Am33P

3670 CASTRO BIEDMA, P. Alimentos más comunes para las gallinas. *Soc. Rur. de Rosario. Rev.* 27 (317/318): 85-88. July/Aug. 1948. 9 Sol4

3671 CLARK, T. B., BLETNER, J. K., and VANLANDINGHAM, A. H. Soybean oil meal, solvent and hydraulic cottonseed meals in chick diets. *Poultry Sci.* 27: 644-646. Sept. 1948. 47.8 Am33P

3672 CRAVENS, W. W. The effect of leucine on egg production and hatchability. *Poultry Sci.* 27: 562-570. Sept. 1948. 47.8 Am33P

3673 DAVIS, F., and BRIGGS, G. M. A preliminary study of the effect of nutrient dilution with cellulose on chick growth and feed efficiency. (Abs.) *Poultry Sci.* 27: 658. Sept. 1948. 47.8 Am33P

3674 DRAPER, C. I. Alfalfa meal in the diet of the chick. *Farm & Home Sci. [Utah Sta.]* 9(3): 3, 18-19. Sept. 1948. 100 Ut1F

Abstract in *Poultry Sci.* 27: 659. Sept. 1948. 47.8 Am33P

3675 EBBELL. Der wert der verschiedenen getreidearten in der geflügel-fütterung. *Geflügelhof* 11: 539-540. Aug. 27, 1948. 47.8 G276

3676 ELEY, C. P., and BELL, J. C. Particle size of broiler feed as a factor in the consumption and excretion of water. (Abs.) *Poultry Sci.* 27: 660-661. Sept. 1948. 47.8 Am33P



- 3677 ESSARY, E. O., and others. Growth factor studies with all vegetable protein chick rations. (Abs.) Poultry Sci. 27: 661. Sept. 1948. 47.8 Am33P.  
R. Emerson, R. MacVicar, and R. H. Thayer, joint authors.
- 3678 FELTWELL, R. American layers eat less. Poultry Farmer [London] 119(3087): 4. Sept. 3, 1948. 47.8 F312
- 3679 FRITZ, J. C. Nutritional requirements of turkeys. Amer. Feed & Grain Dealer 32(8): 8-9, 32-33. Sept. 1948. 298.8 C83
- 3680 GERMAN, H. L., and SHERWOOD, R. M. A comparison of soybean oil meal and cottonseed meal with various protein supplements in chick starter rations. (Abs.) Poultry Sci. 27: 663. Sept. 1948. 47.8 Am33P
- 3681 GERMAN, H. L. Ground corn versus ground milo in practical chick starter mash. Coop. Poultryman 13(9): 12. Sept. 1948. 47.8 C782
- 3682 GERRY, R. W., CARRICK, C. W., and HAUGE, S. M. Some relationship between choline and methionine in corn and soybean oil meal chick rations. (Abs.) Poultry Sci. 27: 663-664. Sept. 1948. 47.8 Am33P
- 3683 GERRY, R. W., CARRICK, C. W., and HAUGE, S. M. Untoasted soybean oil meal in a simplified chick ration. Poultry Sci. 27: 621-626. Ref. Sept. 1948. 47.8 Am33P
- 3684 GERRY, R. W., CARRICK, C. W., and HAUGE, S. M. Vitamin supplements in a soybean meal and mixed grain ration. (Abs.) Poultry Sci. 27: 664. Sept. 1948. 47.8 Am33P
- 3685 GILLIS, M. B. Potassium requirement of the chick. J. Nutr. 36: 351-357. Sept. 10, 1948. 389.8 J82
- 3686 GILLIS, M. B., NORRIS, L. C., and HEUSER, G. F. Studies of the relative value of phytin and inorganic phosphorus in chick nutrition. (Abs.) Poultry Sci. 27: 664. Sept. 1948. 47.8 Am33P
- 3687 GOODMAN, J. B. Green crops as a partial substitute for laying mash. (Abs.) Poultry Sci. 27: 665. Sept. 1948. 47.8 Am33P
- 3688 GRAU, C. R., and TAYLOR, L. W. Experiments on the amino acid requirements of laying hens. (Abs.) Poultry Sci. 27: 665. Sept. 1948. 47.8 Am33P
- 3689 GRAY, J. R. Chicks suffer hidden hunger. Farmer-Stockman 61(10): 30. Oct. 1948. 6 Ok4
- 3690 GUÉRANDE, C. Pour mieux nourrir vos poules et vos lapins. Rustica 21: 704. Oct. 3, 1948. 14 R92
- 3691 GUERANDE, C. Préparons les poulettes à la ponte par une alimentation bien équilibrée. Rustica 21: 661. Sept. 19, 1948. 14 R92
- 3692 GURCAY, R., BOUCHER, R. V., and CALLENBACH, E. W. Utilization of vitamin A and beta-carotene by turkey poults. (Abs.) Poultry Sci. 27: 665-666. Sept. 1948. 47.8 Am33P
- 3693 HALBROOK, E. R. Progress in poultry nutrition. Feed Bag 24(10): 57-58. Oct. 1948. 389.78 F32  
Also in Flour & Feed 49(5): 16-17. Oct. 1948. 298.8 F66
- 3694 HALNAN, E. T. Urea useless as protein substitute. Poultry [London] 103: 186. Sept. 7, 1948. 47.8 P869  
Summary of paper given at World's Poultry Congress, Copenhagen.
- 3695 HENDERSON, W., CARVER, J. S., and STEPHENSON, E. L. Finishing turkeys using thiouracil, iodinated casein, and diethylstilbestrol. (Abs.) Poultry Sci. 27: 667. Sept. 1948. 47.8 Am33P
- 3696 HILL, F. W. The multiple nature of the deficiency of unidentified nutrients in crude all-vegetable protein chick starter rations. Poultry Sci. 27: 536-541. Ref. Sept. 1948. 47.8 Am33P
- 3697 HOFFMAN, E., and WHEELER, R. S. The value of thyroprotein in starting, growing and laying rations. IV. Effect on the egg production, shell quality, and body weight of year-old pullets during hot weather. Poultry Sci. 27: 609-612. Sept. 1948. 47.8 Am33P
- 3698 HOGAN, A. G., and LANCE, B. G. Nutritional factors involved in unusually rapid growth rates of poultry. (Abs.) Poultry Sci. 27: 668. Sept. 1948. 47.8 Am33P
- 3699 HOLMES, G. The poultry grain crop. Mod. Poultry Keeping 59: 281. Sept. 22, 1948. 47.8 Eg3
- 3700 HOWES, H. Ducks in your orchard. Farmers Weekly [London] 29(15): 47. Oct. 8, 1948. 10 F2226  
Chiefly feeding.
- 3701 HSU, P. T., MCGINNIS, J., and GRAHAM, W. D. Destruction of amino acids and proteins caused by autoclaving in the presence of different carbohydrates. (Abs.) Poultry Sci. 27: 668-669. Sept. 1948. 47.8 Am33P  
Chicks.
- 3702 JEPPESEN, J. H., and GRAU, C. R. Whole wheat protein as an amino acid source for chicks. Poultry Sci. 27: 588-590. Ref. Sept. 1948. 47.8 Am33P
- 3703 JONES, L. O. Feeding during the moult. Poultry [London] 103: 193. Sept. 7, 1948. 47. P869
- 3704 JOSHI, B. C., SHAFFNER, C. S., and JULL, M. A. Studies on feed efficiency in relation to egg production. (Abs.) Poultry Sci. 27: 670. Sept. 1948. 47.8 Am33P
- 3705 KRATZER, F. H., and WILLIAMS, D. E. The effect of pyridoxine upon growth of chicks fed linseed oil meal. (Abs.) Poultry Sci. 27: 671. Sept. 1948. 47.8 Am33P
- 3706 LANCE, B. G., and HOGAN, A. G. Vitamin B<sub>6</sub>, inositol, and nicotinic acid in the nutrition of the turkey. J. Nutr. 36: 369-379. Ref. Sept. 10, 1948. 389.8 J82
- 3707 LILLIE, R. J., and BRIGGS, G. M. A study of the importance of folic acid in practical rations for baby chicks and laying hens. (Abs.) Poultry Sci. 27: 672. Sept. 1948. 47.8 Am33P
- 3708 LLOYD, M. D., REED, C. A., and FRITZ, J. C. Experiences with high protein diets for chicks and poults. (Abs.) Poultry Sci. 27: 672. Sept. 1948. 47.8 Am33P
- 3709 LUCKY, T. D., and others. The use of Bantam chicks in nutritional and germ-free research. (Abs.) Poultry Sci. 27: 672-673. Sept. 1948. 47.8 Am33P  
J. A. Reyniers, R. F. Ervin, M. Wagner, and H. A. Gordon, joint authors.
- 3710 MARGOLF, P. H. Turkeys on pasture. Pa. Farmer 139: 144-145, 161. Sept. 11, 1948. 6 P383
- 3711 MARRIOTT, F. L. Poultry success depends on grassland. Mod. Poultry Keeping 59: 330-331. Oct. 6, 1948. 47.8 Eg3
- 3712 MARTIN, T., and PARNELL, E. D. Feeding hens for egg production. Tex. Agr. Col. Ext. C. 33, rev., 8 p. May 1947. 275.29 T312C
- 3713 MILLIGAN, J. L., and BRIGGS, G. M. Studies on a pantothenic acid-sparing factor(s) in chick nutrition. (Abs.) Poultry Sci. 27: 677. Sept. 1948. 47.8 Am33P
- 3714 MISHLER, D. H., CARRICK, C. W., and HAUGE, S. M. Methionine, choline, betaine, and fish products in a simplified ration. (Abs.) Poultry Sci. 27: 677. Sept. 1948. 47.8 Am33P
- 3715 MOORE, A. C. The use of stubbles is not without snags. Poultry [London] 103: 190. Sept. 7, 1948. 47.8 P869  
In poultry feeding.
- 3716 MORRIS, R. H. Poultry feeding experiments. No. 4. West. Austral. Dept. Agr. J. (ser. 2) 25: 199-208. June 1948. 23 W52J
- 3717 MUIR, W. R. Best use of cereals. Mod. Poultry Keeping 59: 351. Oct. 13, 1948. 47.8 Eg3
- 3718 PALAFOX, A. L. The use of fresh green koa haole [*Leucaena glauca*] leaves in chick rations. Poultry Sci. 27: 558-561. Sept. 1948. 47.8 Am33P
- 3719 PATTON, A. R., HILL, E. G., and FOREMAN, E. M. The role of carbohydrates in the heat damage of soybean protein. (Abs.) Poultry Sci. 27: 680. Sept. 1948. 47.8 Am33P
- 3720 QUISENBERRY, J. H., and KRUEGER, W. F. Effects of feeding various combinations of Protamone, oestrogens and thiouracil on growth and fattening of broilers and fryers. (Abs.) Poultry Sci. 27: 681. Sept. 1948. 47.8 Am33P
- 3721 REISER, R., and PEARSON, P. B. The effect of fat in the diet on the riboflavin requirement of the chick. (Abs.) Poultry Sci. 27: 681. Sept. 1948. 47.8 Am33P
- 3722 ROBERTSON, E. I. Feeding poultry for profit. New England Homestead 121(17): 48-49. Sept. 11, 1948. 6 N442
- 3723 ROBERTSON, E. I., MILLER, R. F., and HEUSER, G. F. The relation of energy to fiber in chick rations. (Abs.) Poultry Sci. 27: 682. Sept. 1948. 47.8 Am33P
- 3724 RUMBALL, P. Health in the hatchery. Poultry World 20: 33. Aug. 2, 1948. 47.8 P8682  
Chiefly on feeding.



3725 SHERWOOD, R. M., and GERMAN, H. L. The value of sorghum gluten meal in all-mash chick starters. (Abs.) Poultry Sci. 27: 683. Sept. 1948. 47.8 Am33P

3726 SQUIRES, G. A. Try an autumn grass sowing and you will have a cricket pitch for your chicks. Poultry Farmer [London] 119(3089): 7. (To be cont.) Sept. 17, 1948. 47.8 F312

3727 THAYER, R. H., and HELLER, V. G. Carotene utilization by breeder hens. (Abs.) Poultry Sci. 27: 684-685. Sept. 1948. 47.8 Am33P

3728 TURNER, C. W. Feeding estrogen (dianisylhexene) to laying hens. Poultry Sci. 27: 593-600. Ref. Sept. 1948. 47.8 Am33P

3729 TURNER, C. W. Feeding thyroprotein and sex hormones to laying hens. Poultry Sci. 27: 613-620. Sept. 1948. 47.8 Am33P

3730 VONDELL, J. H. Methods of feeding layers and breeders. Poultry Sci. 27: 531-535. Sept. 1948. 47.8 Am33P

3731 WHEELER, R. S., and HOFFMANN, E. The value of thyroprotein in starting, growing, and laying rations. III. Egg production, fertility and hatchability in Rhode Island Red pullets. (Abs.) Poultry Sci. 27: 685. Sept. 1948. 47.8 Am33P

3732 WILGUS, H. S., and others. The iodine requirements of chickens. (Abs.) Poultry Sci. 27: 686. Sept. 1948. 47.8 Am33P

F. X. Gassner, A. R. Patton, and G. S. Harshfield, joint authors.

3733 WINGARD, S. B. An eggshell material must be dependable. East. States Coop. 24(10): 11. Oct. 1948. 280.28 Ea7

Calcium.

3734 WOODWARD, W. B. W. Poultry feed in B. C. Milling & Feed 29(9): 24-26. Sept. 1948. 298.8 C162

#### Veterinary Medicine

3735 ANNEXEAUX, R. F. The internal parasites of poultry. Calif. Dept. Agr. B. 37: 145-150. July/Sept. 1948. 2 C12M

3736 ARMSTRONG, W. H. Fowl cholera. Calif. Dept. Agr. B. 37: 121-123. July/Sept. 1948. 2 C12M

3737 AXWORTHY, R. Avian tuberculosis. Poultry [London] 103: 214. Sept. 14, 1948. 47.8 P869

3738 BANKOWSKI, R. A. Sulfa drugs tested for control of coccidiosis, pullorum, typhoid and cholera in chickens. Calif. Agr. [Calif. Sta.] 2(9): 13, 16. Sept. 1948. 100 C12Cag

Also in Coop. Poultryman 13(10): 10-11, 21. Oct. 1948. 47.8 C782

3739 BARBER, C. W. Cause of coccidiosis. Flour & Feed 49(5): 20. Oct. 1948. 298.8 F66

In poultry.

3740 BEDARD, J. A. E. L'alimentation déséquilibrée, cause de maladies: l'avitaminose, le rachitisme, la goutte et le rhumatisme ont pour cause une alimentation irrationnelle, mal balancée. Avic. Québécois 3(8): 23-24. Aug. 1948. 47.8 Av55

3741 BIRD, H. R., and others. Reduced requirement for the unknown growth factor during the later stages of growth of chickens and turkeys. (Abs.) Poultry Sci. 27: 654. Sept. 1948. 47.8 Am33P

S. J. Marsden, A. C. Groschke, and R. J. Lillie, joint authors.

3742 BISHOP, A., and MCCONNACHIE, E. W. Resistance to sulphadiazine and 'paludrine' in the malaria parasite of the fowl (*P. gallinaceum*). Nature [London] 162: 541-543. Oct. 2, 1948. 472 N21

3743 BIVINS, J. A. A survey of the incidence of serological variants of *Salmonella pullorum* in Michigan. Poultry Sci. 27: 629-634. Ref. Sept. 1948. 47.8 Am33P

3744 BRANSON, H., and HANSBOROUGH, L. A. The quantitative theory of autoradiography illustrated through experiments with P<sup>32</sup> in the chick embryo. Science 108: 327-328. Sept. 24, 1948. 470 Sci2

3745 BUCKNER, G. D., and others. Rate of growth and calcification of the sternum of male and female New Hampshire chickens having crooked keels. (Abs.) Poultry Sci. 27: 255. Sept. 1948. 47.8 Am33P

W. M. Insko, Jr., A. H. Harms, and E. F. Wachs, joint authors.

3746 BURMESTER, B. R. The influence of sex hormones upon the occurrence of prolapse in chickens. (Abs.) Poultry Sci. 27: 655. Sept. 1948. 47.8 Am33P

3747 BURMESTER, B. R., and DENINGTON, E. M. Studies on the transmission of avian visceral lymphomatosis. I-II. Cancer Res. 12: 779-797. Ref. Dec. 1947. 448.8 C16

I. Variation in transmissibility of naturally occurring cases, by B. R. Burmester and E. M. Denington. II. Propagation of lymphomatosis with cellular and cell-free preparations, by B. R. Burmester.

3748 BUTTNER, E. E. Pigeons that produce double-sexed birds. So. African Poultry, Pigeon & Bird Mag. 73(439): 29. Aug. 1948. 47.8 So83

3749 CLANCY, C. F., COX, H. R., and BOTTORFF, C. A. Laboratory experiments with living Newcastle disease virus vaccine. (Abs.) Poultry Sci. 27: 656-657. Sept. 1948. 47.8 Am33P

3750 CLINE, L. E. Aspergillosis in turkeys. Eggsaminer 25(3): 9, 14. Mar. 1948. 286.85 Eg32

3751 COLES, J. D. W. A. Coccidiosis. Farming So. Africa 23: 398-399, 402. June 1948. 24 So842

Origin, symptoms, and control in poultry.

3752 COMMON, R. H., BOLTON, W., and RUTLEDGE, W. A. The influence of gonadal hormones on the composition of the blood and liver of the domestic fowl. J. Endocrinol. 5: 263-273. Ref. June 1948. 448.8 J8293

3753 COUCH, J. R., and others. Studies on the role of biotin in embryonic development of the domestic fowl. (Abs.) Poultry Sci. 27: 657. Sept. 1948. 47.8 Am33P

W. W. Cravens, C. A. Elvehjem, and J. G. Halpin, joint authors.

3754 DAUBNEY, R., and MANSY, W. The occurrence of Newcastle disease in Egypt. J. Compar. Path. & Ther. 58: 189-200. July 1948. 41.8 J82

3755 DE, N. N., and RAMASWAMY, A. S. Anaemia in chicks infected with *P. gallinaceum*. Cur. Sci. 17: 237-238. Aug. 1948. 475 Sci23

3756 DELAY, P. D. Avian pneumoencephalitis (Newcastle disease). Calif. Dept. Agr. B. 37: 110-113. July/Sept. 1948. 2 C12M

3757 DEOME, K. B., BANKOWSKI, R. A., and DELAY, P. D. The recovery of pneumoencephalitis virus from poultry house dust. (Abs.) Poultry Sci. 27: 659. Sept. 1948. 47.8 Am33P

3758 DICKINSON, E. M. Sulfa drugs checkmate cecal coccidiosis. Eggsaminer 25(3): 2. Mar. 1948. 286.85 Eg32

3759 DIXON, F. J. Radiation-induced hemorrhagic disease in chickens. Soc. Expt. Biol. & Med. Proc. 68: 505-507. July/Aug. 1948. 442.9 So1

3760 DOMM, L. V., and MINTZ, B. Histological changes in the thyroid and pituitary glands of adult Light Brown Leghorn fowl treated with thiouracil. (Abs.) Anat. Rec. 101: 721-722. Aug. 1948. 447.8 An1

3761 DORFMAN, R. I. Studies on the bioassay of hormones; skewed response of the chick oviduct to methoxy bisdehydro doisyonic acid (MDDA). Endocrinology 43: 232-236. Oct. 1948. 448.8 En2

3762 DOROSKO, I. N. New method of ridding poultry of worms with carbon tetrachloride. (In Russian.) Veterinariia 25(4): 27-29. Apr. 1948. 41.8 V6426

3763 DOROSKO, J. N. A new method for the dehelminthisation of poultry by CCl<sub>4</sub>. (In Czech.) Casopis Ceskoslov. Vet. 3: 506-508. Sept. 10, 1948. 41.8 C27

3764 DOYLE, W. L., and WATTERSON, R. L. Glycogen content of the glycogen body of the chick during incubation. (Abs.) Anat. Rec. 101: 714. Aug. 1948. 447.8 An1

3765 EDGAR, S. A., HESTER, E., and ROBERTS, C. S. Detection of antibodies of several bacterial infections in the feces of infected chickens as a possible aid in rapid diagnosis of diseases. (Abs.) Poultry Sci. 27: 660. Sept. 1948. 47.8 Am33P

3766 ERIKSEN, S. How well are you doing with your chickens? Cent. Exch. Messenger 7(3): 35-38. Oct. 1948. 280.28 C33

On worms in chickens.

3767 EVANS, H. J. Development of the sensory areas of the inner ear of the chick. (Abs.) Anat. Rec. 101: 714. Aug. 1948. 447.8 An1

3768 FOLEY, W. T. A vaccine for Newcastle disease. Farmer [St. Paul], Gen. Ed. 66(17): 1, 34, 35. Sept. 4, 1948. 6 F2211

3769 FRANKLIN, A. L., and others. Response to diethylstilbestrol in female chicks as influenced by folic acid deficiency induced by an antagonist. (Abs.) Poultry Sci. 27: 662. Sept. 1948. 47.8 Am33P

D. Lewis, E. L. R. Stokstad, and T. H. Jukes, joint authors.



- 3770 FUNK, E. M. Successful introduction of pullo-  
rum clean chicks in supply flocks. IBCA News 24: 6, 11.  
Sept. 1, 1948. 47.8 In83  
Address at the 1948 IBCA Convention in St. Louis, Mo.
- 3771 GAERTNER, R. A. Pyridoxine concentration  
during the embryonic development of the chick. (Abs.)  
Anat. Rec. 101: 714-715. Aug. 1948. 447.8 An1
- 3772 GAERTNER, R. A. The role of the tail-bud in  
the development of the chick embryo. (Abs.) Anat. Rec.  
101: 713. Aug. 1948. 447.8 An1
- 3773 GALTON, L., and EPSTEIN, S. Newcastle  
immunity for your flocks. Country Gent. 118(10): 17,  
135-137. Oct. 1948. 6 C833
- 3774 GARLAND, F. W., JR., WINTER, A. R., and  
AMET, E. R. A comparison of methods of testing  
turkeys for *Salmonella pullorum* infection. (Abs.)  
Poultry Sci. 27: 663. Sept. 1948. 47.8 Am33P
- 3775 GARRARD, E. H. Pullorum disease in turkeys.  
Canad. Poultry Rev. 72(10): 34-36. Oct. 1948. 47.8 C16
- 3776 GASSNER, F. X., and WILGUS, H. S. Observa-  
tion on the estrogen fattening of chickens. (Abs.)  
Poultry Sci. 27: 663. Sept. 1948. 47.8 Am33P
- 3777 GERICKE, A. M. Perosis, or slipped tendon  
in poultry. Farming So. Africa 23: 481-485, 503. July  
1948. 24 So842
- 3778 GLAZENER, E. W., and SHAFFNER, C. S.  
Thyroid activity as related to strain differences in grow-  
ing chickens. (Abs.) Poultry Sci. 27: 664. Sept. 1948.  
47.8 Am33P  
New Hampshires and Barred Plymouth Rocks.
- 3779 GODFREY, G. F. Some histophysiological  
aspects of the uterus in the domestic fowl. (Abs.)  
Poultry Sci. 27: 664-665. Sept. 1948. 47.8 Am33P
- 3780 GORDON, R. F. Control of salmonellosis.  
Mod. Poultry Keeping 59: 280. Sept. 22, 1948. 47.8 Eg3
- 3781 GORDON, R. F. Fowl pest complacency  
challenged. Poultry [London] 103: 226. Sept. 21, 1948.  
47.8 P869
- 3782 GORDON, R. F. Vaccines for fowl pest.  
Mod. Poultry Keeping 59: 350. Oct. 13, 1948. 47.8 Eg3
- 3783 GREAVES, R. E., COX, B. F., and DEAR-  
STYNE, R. S. Worms get the early bird. Res. and  
Farming. [N. C. Sta.] Prog. Rpt. 7(1): 5, 15. Sept. 1948.  
100 N81R  
Internal parasite control in chickens.
- 3784 GREENBERG, J., BOYD, B. L., and  
JOSEPHSON, E. S. Synergistic effect of chlorguanide  
and sulfadiazine against *Plasmodium gallinaceum* in the  
chick. J. Pharmacol. & Expt. Ther. 94(1): 60-64. Sept.  
1948. 396.8 J82
- 3785 GRUMBLES, L. C., DELAPLANE, J. P., and  
HIGGINS, T. C. Continuous feeding of low concentrations  
of sulfaquinoxaline for the control of coccidiosis in poul-  
try. Poultry Sci. 27: 605-608. Sept. 1948. 47.8 Am33P
- 3786 HAMILTON, C. M. Newcastle vaccination;  
live virus method. Washcoegg 26(5): 9, 31. Oct. 1948.  
47.8 W27
- 3787 HANCOX, N. M. Osteogenesis around multiple  
fragments of chick embryo bone grafted to developing  
chick embryo chorioallantois. J. Physiol. 107: 513-517.  
Sept. 30, 1948. 447.8 J82
- 3788 HENDERSON, E. W., and CHAMPION, L. R.  
Correlation between speed of hatching and growth rate of  
chickens. (Abs.) Poultry Sci. 27: 667. Sept. 1948.  
47.8 Am33P
- 3789 HINSHAW, W. R. Progress report on turkey  
disease. Calif. Turkey News 1948: 13, 41, 43. Ref.  
Sept. 1948. 47.38 C12
- 3790 HITCHNER, S. B. The pathology of infectious  
sinusitis of turkeys. (Abs.) Poultry Sci. 27: 667-668.  
Sept. 1948. 47.8 Am33P
- 3791 HOWITT, B. F., BISHOP, L. K., and KISSLING,  
R. E. Presence of neutralizing antibodies of Newcastle  
disease virus in human sera. Amer. J. Pub. Health 38:  
1263-1272. Ref. Sept. 1948. 449.9 Am3J
- 3792 ILLINOIS. UNIVERSITY. COLLEGE OF AGRI-  
CULTURE. EXTENSION SERV. Newcastle disease in  
poultry. Urbana? 1947. 4 p.-folder. 275.2 IL62N
- 3793 JAAP, R. G. Embryonic sex reversal in  
turkeys. (Abs.) Poultry Sci. 27: 669. Sept. 1948.  
47.8 Am33P
- 3794 JACKSON, T. W. Infectious coryza. Calif.  
Dept. Agr. B. 37: 166-167. July/Sept. 1948. 2 C12M  
In poultry.
- 3795 JANSEN, J. Tuberculosis in ducks. (In  
Dutch.) Tijdschr. v. Diergeneesk. 73: 680-685.  
Sept. 1/15, 1948. 41.8 T431  
English summary.
- 3796 JERSTAD, A. C., and HAMILTON, C. M. The  
etiology of infectious sinusitis of turkeys. (Abs.) Poul-  
try Sci. 27: 669-670. Sept. 1948. 47.8 Am33P
- 3797 JONES, E. E. Pullorum disease. Calif. Dept.  
Agr. B. 37: 114-115. July/Sept. 1948. 2 C12M
- 3798 JUHN, M. The action of thiouracil upon the  
spurs of the domestic fowl. J. Endocrinol. 5: 290-292.  
June 1948. 448.8 J8293
- 3799 KIRKPATRICK, M. G. New drug for cocci-  
diosis. Poultry Digest 7: 653. Nov. 1948. 47.8 N219  
Nitrofurazone.
- 3800 KOCH, B. Infectious bronchitis. Calif. Dept.  
Agr. B. 37: 124-125. July/Sept. 1948. 2 C12M  
In poultry.
- 3801 KOHLMAYER, W., and MOXON, A. L.  
Selenium toxicity in turkeys. (Abs.) Poultry Sci. 27:  
670. Sept. 1948. 47.8 Am33P
- 3802 KOPROWSKI, H., and COX, H. R. Occurrence  
of rabies virus in the blood of developing chick embryo.  
Soc. Expt. Biol. & Med. Proc. 68: 612-615. Ref.  
July/Aug. 1948. 442.9 So1
- 3803 KRANEVELD, F. C., ERBER, M., and  
MANSJOER, M. *Salmonella* carriers among turkeys on  
Java. (In Dutch.) Nederland. Indische Bl. v. Dier-  
geneesk. 54: 149-152. Aug. 1947. 41.8 V51  
English summary.
- 3804 KRANEVELD, F. C., ERBER, M., and  
MANSJOER, M. *Salmonella* infection in ducks on Java.  
(In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 54:  
120-136. Aug. 1947. 41.8 V51  
English summary.
- 3805 KRANEVELD, F. C., and NASOETION, A.  
Sulfanilamide against fowl pox. (In Dutch.) Nederland.  
Indische Bl. v. Diergeneesk. 55(1/2): 35-56. Apr. 1948.  
41.8 V51  
English summary.
- 3806 MCCARTNEY, M. G., and SHAFFNER, C. S.  
Chick thyroid size and incubation period as influenced by  
thyroxine, thiouracil, and thyroprotein. (Abs.) Poultry  
Sci. 27: 674. Sept. 1948. 47.8 Am33P
- 3807 MCGINNIS, J., HSU, P. T., and GRAHAM, W. D.  
Studies on an unidentified factor required by chicks for  
growth and protein utilization. (Abs.) Poultry Sci. 27:  
674-675. Sept. 1948. 47.8 Am33P
- 3808 MACGREGOR, H. I., MCGINNIS, J., and  
CARVER, J. S. The effect of different intakes of ribo-  
flavin on growth of Broad Breasted Bronze turkeys after  
eight weeks of age. (Abs.) Poultry Sci. 27: 675. Sept.  
1948. 47.8 Am33P
- 3809 MCNEIL, E., KISSLING, R. E., and HINSHAW,  
W. R. Host-parasite relationships in hexamitiasis of  
turkey poults. (Abs.) Poultry Sci. 27: 675. Sept. 1948.  
47.8 Am33P
- 3810 MARKHAM, F. S., COX, H. R., and BOTTORFE,  
C. A. Field trials with living Newcastle disease virus  
vaccine. (Abs.) Poultry Sci. 27: 673. Sept. 1948.  
47.8 Am33P
- 3811 MARLOW, H. W. Comb-testis relationship.  
Endocrinology 43: 71-77. Ref. Aug. 1948. 448.8 En2  
In poultry.
- 3812 MATTERSON, L. D. The relationship be-  
tween vitamin D and intestinal phytase activity. (Abs.)  
Poultry Sci. 27: 674. Sept. 1948. 47.8 Am33P
- 3813 MINSKY, L. Lymphomatosis of chickens.  
Calif. Dept. Agr. B. 37: 128-132. July/Sept. 1948.  
2 C12M
- 3814 MORENG, R. E., and SHAFFNER, C. S.  
Growth and market grade as influenced by degree of hypo-  
thyroidism. (Abs.) Poultry Sci. 27: 677-678. Sept.  
1948. 47.8 Am33P
- 3815 MORGAN, H. R., and FINLAND, M. Simpli-  
fied technique for titrating influenza virus neutralizing  
antibody in the chick embryo. Soc. Expt. Biol. & Med.  
Proc. 68: 618-619. July/Aug. 1948. 442.9 So1
- 3816 MOSES, H. E. Newcastle disease—how to  
check it. IBCA News 24: 2-3. Sept. 1, 1948.  
47.8 In83  
Excerpts from a panel discussion at the 1948 IBCA  
Convention in St. Louis, Mo.
- 3817 NEW JERSEY. STATE COLLEGE OF AGRI-  
CULTURE AND MECHANIC ARTS. EXTENSION SERV.  
Newcastle vaccine. N. J. Agr. Col. Ext. Leaflet 21,  
4 p. July 1948. 275.29 N46L



- 3818 OLSEN, M. W., and NEHER, B. H. Time and place of fertilization of the hen's ovum. (Abs.) Poultry Sci. 27: 679. Sept. 1948. 47.8 Am33P
- 3819 OLSSON, N. Coccidiosis in chickens. (In Swedish.) Ladugården 1948: 130-131. July 1948. 44.8 L12
- 3820 O'NEIL, J. B. The use of radioactive tracers in poultry. I. Phosphorus. (Abs.) Poultry Sci. 27: 679-680. Sept. 1948. 47.8 Am33P
- 3821 PARISH, A. J. Don't be too hasty; diagnoses made without considering the full facts may be inaccurate. Poultry World 83: 227. Oct. 1, 1948. 47.8 P8682  
"Gaping" due to other causes than gapeworms.
- 3822 PERELLI-MINETTI, J. E., RUCKER, J. C., and ROSS, F. K. Paratyphoid. Calif. Dept. Agr. B. 37: 151-156. July/Sept. 1948. 2 C12M  
In poultry.
- 3823 POVAR, M. L. Poultry diseases: leukosis. Everybody's Poultry Mag. 55 i. e. 53(8): 53. Sept. 1948. 47.8 F213P
- 3824 POWELL-OWEN, W. Avoid crop troubles; disorders are likely to be more prevalent in a season of particularly heavy grass. Poultry World 83: 280. Oct. 22, 1948. 47.8 P8682
- 3825 QUIGLEY, G. D. Further studies with wheat and pullet disease. Poultry Sci. 27: 647-649. Sept. 1948. 47.8 Am33P
- 3826 QUIROZ, M. Catarro contagioso de las aves. Campo [Guadalajara] 16(6): 8-9; (7): 8-9. June-July 1948. 8 G76
- 3827 RODÓN, J. M. Procedimiento para combatir la coccidiosis. Cult. Mod. 31: 213. June 1948. 15 C89
- 3828 ROMANOFF, A. L. Chemical and physiological sex differences in newly hatched chicks. Poultry Sci. 27: 643-644. Sept. 1948. 47.8 Am33P
- 3829 ROSENBERG, M. M., and HERRICK, C. A. Hemoglobin values as an index of resistance to cecal coccidiosis. (Abs.) Poultry Sci. 27: 682. Sept. 1948. 47.8 Am33P
- 3830 ROSENWALD, A. S. Poultry disease control in California. (Abs.) Poultry Sci. 27: 682. Sept. 1948. 47.8 Am33P
- 3831 SANDERSON, C. J. Tuberculosis in poultry. Land [Sydney] 1918: 18. Aug. 13, 1948. 23 L22
- 3832 SAUNDERS, J. W., JR. The proximo-distal sequence of origin of the parts of the chick wing and the role of the ectoderm. J. Expt. Zool. 108: 363-403. Ref. Aug. 1948. 410 J825
- 3833 SINGSEN, E. P., SCOTT, H. M., and MATTERSON, L. D. The effect of sulfaquinoxaline on growth rate and feed efficiency of chicks. Poultry Sci. 27: 627-628. Sept. 1948. 47.8 Am33P
- 3834 SOARES, M. P. Prevention of fowl cholera. (In Portuguese.) Lav. Arroz. 2(17): 31. May 1948. 59.8 L39
- 3835 SPITZBARTH, H. Die wichtigsten krankheiten seuchenhafter art. Osterr. Kleintierzüchter 1948: 419-420; 435-436. Aug.-Sept. 1948. 49 Os7  
Poultry.
- 3836 SPRATT, N. T., JR. Nutritional requirements of the early chick embryo. I-II. (Abs.) Anat. Rec. 101: 715-716. Aug. 1948. 447.8 An1  
I. The utilization of carbohydrate substrates. II. Differential nutrient requirements for morphogenesis and differentiation of the heart and brain.
- 3837 STADELMAN, W. J., and BOUCHER, R. V. Influence of toe removals on calcification and body weight. (Abs.) Poultry Sci. 27: 684. Sept. 1948. 47.8 Am33P
- 3838 STÖVER, D. E. Coccidiosis in chickens. Calif. Dept. Agr. B. 37: 116-120. July/Sept. 1948. 2 C12M
- 3839 STRYSZAK, A. An epizootic of fowl typhoid on the terrain of Warszawa district in 1942-44. (In Polish.) Med. Wet. 4: 425-430. July 1948. 41.8 M463  
English summary.
- 3840 STURKIE, P. D. Variation in the electrocardiograms of adult chickens. (Abs.) Poultry Sci. 27: 684. Sept. 1948. 47.8 Am33P
- 3841 TABER, E. Source of androgen in male Brown Leghorn chicks treated with gonadotropins. (Abs.) Anat. Rec. 101: 681. Aug. 1948. 447.8 An1
- 3842 TALIAFERRO, W. H., and KELSEY, F. E. The role of the spleen and lymphoidmacrophage system in the quinine treatment of gallinaceum malaria. I-II. J. Infect. Dis. 83: 164-199. Sept./Oct. 1948. 448.8 J821  
I. Acquired immunity and phagocytosis, by W. A. Taliaferro. II. Quinine blood levels, by W. A. Taliaferro and F. E. Kelsey.
- 3843 TODD, A. C. Pastures for chickens and the parasite fauna. Poultry Sci. 27: 646-647. Sept. 1948. 47.8 Am33P
- 3844 TRINKAUS, J. P. An analysis of melanoblast response to thyroxine in the Brown Leghorn fowl. (Abs.) Anat. Rec. 101: 679. Aug. 1948. 447.8 An1
- 3845 TURNER, C. W. Influence of season on comb development of chicks following oral administration of methyl testosterone. Poultry Sci. 27: 553-557. Sept. 1948. 47.8 Am33P
- 3846 U. S. BUR. OF ANIMAL INDUSTRY. Summary of avian tuberculosis eradication work in cooperation with States, July 1947 - June 1948. Washington? 1948. 1 p. 1.9 An533Sua
- 3847 URBAN, W. D. Avian encephalomyelitis (epidemic tremors of chicks). Calif. Dept. Agr. B. 37: 142-144. July/Sept. 1948. 2 C12M
- 3848 WANG, H., and DOMM, L. V. Melanophores of Brown Leghorn capon feathers studied by in vitro split-collar preparations and reciprocal collar transplantation. (Abs.) Anat. Rec. 101: 716-717. Aug. 1948. 447.8 An1
- 3849 WARD, G. W. Poultry diseases. I. Sanitation. Westralian Farmers' Co-op. Gaz. 14(359): 51, 53, 55-56. July 1948. 280.28 W522
- 3850 WATEL, M. Castration chimique des coquelets par le stilboestrol. Rec. de Méd. Vét. 124: 412-415. Sept. 1948. 41.8 R24
- 3851 WHEELER, R. S., HOFFMAN, E., and BARBER, C. W. The effect of thiouracil induced hypothyroidism on the resistance of chicks experimentally infected with *Eimeria tenella*. (Abs.) Poultry Sci. 27: 685. Sept. 1948. 47.8 Am33P
- 3852 WILSON, J. E. Problem of round heart disease. Poultry [London] 103: 211. Sept. 14, 1948. 47.8 P869  
Summary of paper given at World's Poultry Congress, Copenhagen.
- 3853 WORCESTER, W. W. Infectious laryngo-tracheitis. Calif. Dept. Agr. B. 37: 126-127. July/Sept. 1948. 2 C12M  
In poultry.

#### Miscellaneous

- 3854 ALEXANDER, A. K. S. Expanding next year? Farmer & Stock-Breeder 62: 2151. Sept. 14, 1948. 10 F228  
Poultry management.
- 3855 ALP, H. H. 8th World's Poultry Congress. Amer. Poultry J. 79(10): 10. 23. Oct. 1948. 47.8 Am33P
- 3856 ANDERSON, E. E. Increase winter egg output by using artificial lights. West. Farm Life 50(19): 36. Oct. 1, 1948. 6 R153  
Also in N. Mex. Stockman 13(10): 57. Oct. 1948. 49 N462
- 3857 ANDERSON, E. E. A vacation for hens doesn't pay. N. Mex. Stockman 13(9): 104. Sept. 1948. 49 N462
- 3858 BAROTT, H. G., and PRINGLE, E. M. The effect of various types of brooding on chick growth and feed consumption. (Abs.) Poultry Sci. 27: 652. Sept. 1948. 47.8 Am33P
- 3859 BEDARD, J. A. E. Prevenez les maladies par l'hygiene. Avic. Québécois 3(9): 22-23. Sept. 1948. 47.8 Av55  
In poultry.
- 3860 BENNION, N. L. Turkey management in Oregon. (Abs.) Poultry Sci. 27: 652-653. Sept. 1948. 47.8 Am33P
- 3861 BERRY, L. N. Produce eggs all year with fall-hatched pullets in cages. West. Farm Life 50(17): 31, 32. Sept. 1, 1948. 6 R153
- 3862 BLAKELY, R. M., and ANDERSON, R. W. The influence of thiouracil on growth, fattening, feed consumption and thyroid weight of turkey broilers. (Abs.) Poultry Sci. 27: 654. Sept. 1948. 47.8 Am33P
- 3863 BLOUNT, W. P. Big egg output can be maintained. Farming News and North Brit. Agr. 100(34): 23. Aug. 13, 1948. 10 N82
- 3864 BRAHS, C. Better poultry management. Land O'Lakes News 28(9): 9. Sept. 1948. 44.8 L22
- 3865 BROWN, T. T. Special care for early pullets. South. Planter 109(9): 18. Sept. 1948. 6 So89
- 3866 BRUCE, W. H. Poultry farming run as a big business in Selling plant. Farmer & Settler 43(25): 8. July 23, 1948. 23 F226  
In Ontario, Canada.



- 3867 BYERLY, T. C. Light and egg production. (Abs.) Poultry Sci. 27: 656. Sept. 1948. 47.8 Am33P
- 3868 CASTELLO CARRERAS, S. Las gallinas y sus productos. Ed. 4. Madrid, Sección de Publicaciones, Prensa y Propaganda, 1947? 179 p. 47 C272G
- 3869 CHAWNER, L. C. Batteries [poultry] defended. Poultry [London] 103: 186. Sept. 7, 1948. 47.8 P869
- Summary of paper given at World's Poultry Congress, Copenhagen.
- 3870 CLIZER, N. R. Saves 28 days of labor. Mo. Ruralist 89(16): 14. Aug. 28, 1948. 6 R8891
- Deep litter and droppings pits in the poultry house.
- 3871 COLES, J. D. W. A. Hygiene on the poultry farm. Farming So. Africa 23: 407-412. June 1948. 24 So842
- 3872 CUTHBERT, W. J. Preparing pullets' winter quarters. Canada Poultryman 35(9): 15. Sept. 1948. 47.8 C166
- 3873 DOMAR, L. M. La gallina, incubación y cría. Buenos Aires, Atlantida, 1948. 280 p. (Biblioteca de "La Chacra" v. 1) 47 D712
- 3874 EBBELL, J. Mehr herbst- und winterer! Geflügelhof 11: 587-589. Sept. 17, 1948. 47.8 G276
- 3875 EMMEL, M. W. Dead chicken disposal. Fla. Poultry & Dairy J. 14(8): 21. Sept./Oct. 1948. 47.8 F66
- 3876 FARNECK, J. Machen tauben schaden? Osterr. Kleintierzüchter 1948: 437-438. Sept. 1948. 49 Os7
- 3877 FOX, C. P. Pheasants. Farm Q. 3(3): 46-51, 108, 110-112. Autumn 1948. 6 F22995
- Raising pheasants.
- 3878 FRONDA, F. M., and CAMPOS, P. C. Broodiness among Los Baños Cantonese layers. Philippine Agr. 31: 311-314. Apr./June 1948. 25 P542
- 3879 FRONDA, F. M. Cull your flocks now. Agr.-Com.-Indus. Life 10(8): 4-5. Aug. 1948. 25 Ag8
- 3880 FULTON, D. P. What is NEPPCO? Everybody's Poultry Mag. 55 i. e. 53(8): 8, 42-43. Sept. 1948. 47.8 F213P
- Northeastern Poultry Producers Council.
- 3881 GARCÍA DE PAREDES, A. B. El año avícola en el gallinero industrial: el criadero. Ganadería [Madrid] 6: 295-296. June 1948. 49 G15
- 3882 GARCIA P., R. Desventajas del sistema extensivo en la cría de aves. Agr. Trop. 4(6): 37-38. June 1948. 26 Ag8
- 3883 GIRARDEAU, R. Des oeufs en abondance à la ferme chez l'amateur. Ed. 3, rev. and enl. Paris, Maison Rustique, 1947. 226 p. 47 G442
- 3884 GLAUSER, Brüterekontrolle? Geflügelhof 11: 561-562. Sept. 3, 1948. 47.8 G276
- 3885 GOPALAKRISHNAN, V. R. Poultry development in Assam. Indian Farming 9: 79-80. Feb. 1948. 22 In283
- 3886 GUALBA, C. El enclucamiento de las ponedoras. Cult. Mod. 31: 262. July 1948. 15 C89
- 3887 HAGEDOORN, A. L. Bring out the hidden defects. Poultry Farmer [London] 119(3090): 4. Sept. 24, 1948. 47.8 F312
- Progeny testing.
- 3888 HALE, E. B. Observations on the social behavior of hens following debeaking. Poultry Sci. 27: 591-592. Sept. 1948. 47.8 Am33P
- 3889 HANNAS, R. R. Poultrymen gain from experimental farm. Amer. Poultry J. 79(9): 5, 14. Sept. 1948. 47.8 Am32
- 3890 HANNAS, R. R. Research farm gets facts. Amer. Poultry J. 79(10): 5, 14-15. Oct. 1948. 47.8 Am32
- Research Farm of Pennsylvania State College.
- 3891 HANSEN, R. S., BEARSE, G. E., and BERG, L. R. Bird preference for and comparative egg soilage on various nesting materials. (Abs.) Poultry Sci. 27: 666. Sept. 1948. 47.8 Am33P
- 3892 HARVEY, J. R. Which one for the pot? Natl. Allot. & Gard. J. 77: 10-11. Sept. 1948. 80 N217
- Poultry care.
- 3893 HEISS, W. V., and HARR, J. F. Poultry research needs. Flour & Feed 49(5): 18, 20. Oct. 1948. 29.8 F66
- 3894 HENDERSON, W., and CARVER, J. S. Poultry husbandry practices: a laboratory course designed for prospective high school teachers. (Abs.) Poultry Sci. 27: 667. Sept. 1948. 47.8 Am33P
- 3895 HERRICK, L. W., JR. Growing turkeys. N. C. Agr. Col. Ext. C. 322, 14 p. July 1948. 27.5.29 N811
- 3896 HEWITT, C. R. Treatment for feather picking; control measures advocated for feather eating and cannibalism in fowl. Feed low in fiber content is contributing cause of habits. Grit and Steel 50(6): 37. Oct. 1948. 47.8 G88
- 3897 HOEKZEMA, J. P. Chickens pay well or lose much, depending upon management. Ind. Farmers Guide 104(20): 27. Oct. 15, 1948. 6 In2
- 3898 HOFFMAN, E., and WHEELER, R. Thought question-discussion technique in teaching introductory poultry husbandry. (Abs.) Poultry Sci. 27: 668. Sept. 1948. 47.8 Am33P
- 3899 HOWES, H. Autumn hatching. Farmers Weekly [London] 29(9): 47. Aug. 27, 1948. 10 F2226
- Pullets.
- 3900 HOWES, H. More eggs during winter. Farmers Weekly [London] 29(13): 51. Sept. 24, 1948. 10 F2226
- 3901 HUBER L., G. Como seleccionar la mejor ponedora. Rev. Ganad. [Habana] 8(10): 28-29. Oct. 1948. 49 R321
- 3902 HUGHES, C. E. Paxton's pullet pointers. Successful Farming 46(9): 128, 132-133. Sept. 1948. 6 Su12
- 3903 JAAP, R. G. Teaching poultry biology at the college freshman level. (Abs.) Poultry Sci. 27: 669. Sept. 1948. 47.8 Am33P
- 3904 JACKSON, B. Culling means killing. Quick, certain and painless methods of killing poultry are described and illustrated. Poultry Farmer [London] 119 (3088): 8-9. Sept. 10, 1948. 47.8 F312
- 3905 JULL, M. A. Maryland's research resume for its big poultry industry; University authorities constantly test all phases of production and marketing for benefit of growers and processors. Amer. Egg & Poultry Rev. 9(10): 46, 48, 50. Sept. 1948. 47.8 Am38
- 3906 JULL, M. A. A report on the World's Poultry Congress. Everybody's Poultry Mag. 55 i. e. 53(10): 24-25. Nov. 1948. 47.8 F213P
- 3907 KALLELA, O. Kananhoidon opas [Guide to poultry raising]. Ed. 2. n. p., Pellervo-Seura, 1948. 244 p. 47 K122
- 3908 KENNARD, D. C., and CHAMBERLIN, V. D. Built-up floor litter to date. Farm & Home Res. [Ohio Sta.] 33: 130-135. July/Aug. 1948. 100 Oh3S
- 3909 KOSIN, I. L., and WAKELY, W. The effect of iodinated casein on molting in turkeys. (Abs.) Poultry Sci. 27: 670-671. Sept. 1948. 47.8 Am33P
- 3910 KOSIN, I. L. Observations on the egg laying pattern in turkeys. (Abs.) Poultry Sci. 27: 671. Sept. 1948. 47.8 Am33P
- 3911 KOSIN, I. L. Select good turkeys. Washcoegg 26(4): 20-21. Sept. 1948. 47.8 W27
- 3912 KOSIN, I. L. The use of testosterone propionate in controlling broodiness in turkeys. (Abs.) Poultry Sci. 27: 671. Sept. 1948. 47.8 Am33P
- 3913 LAZY man's henhouse. Farm Q. 3(3): 72-73, 134-137. Autumn 1948. 6 F22995
- Deep litter.
- 3914 LICHTENWALD, C. G. How I fly and train my Rollers. Amer. Pigeon J. 37: 231-232. Sept. 1948. 47.8 Am35
- 3915 LLOYD-THOMAS, W. Geese do well in flock pens. Mod. Poultry Keeping 59: 275. Sept. 22, 1948. 47.8 Eg3
- 3916 LODGE, C. Get those moulters back to the nests. Poultry Farmer [London] 119(3090): 9. Sept. 24, 1948. 47.8 F312
- 3917 LODGE, C. How to get continuous eggs. Poultry Farmer [London] 119(3087): 9. Sept. 3, 1948. 47.8 F312
- 3918 MANTLE, L. Cheshire chicks shine in rearer's test. Poultry Farmer [London] 119(3087): 4. Sept. 3, 1948. 47.8 F312
- 3919 MARBLE, D. R. Ideal bird should produce 24 ounce eggs within 60 days after starting to lay. Poultry Supply Dealer 25(11): 28-29, 38. Nov. 1948. 47.8 B11
- 3920 MARTIN, T. Texas 4-H Club pullet development program. (Abs.) Poultry Sci. 27: 673. Sept. 1948. 47.8 Am33P
- 3921 MESHEW, M. H. Further observations on the use of oxygen in the hatching of chicken and turkey eggs at high altitudes. (Abs.) Poultry Sci. 27: 675. Sept. 1948. 47.8 Am33P



- 3922 MEYERS, L. D. Poultry sanitation. Calif. Dept. Agr. B. 37: 133-141. July/Sept. 1948. 2 C12M
- 3923 MILLER, J. P. The Poultry Council of the State College of Washington. (Abs.) Poultry Sci. 27: 676. Sept. 1948. 47.8 Am33P
- 3924 MILLS, B. First egg. Mod. Poultry Keeping 59: 256. Sept. 15, 1948. 47.8 Eg3  
Small size.
- 3925 MILSOME, J. ST. G. Progeny testing limitations. Poultry Indus. 13: 382-383. Sept. 3, 1948. 47.8 P8644
- 3926 MOODY, J. D. Lights increase profits; they aid in the production of eggs in the "off" season. Amer. Poultry J. 79(10): 8. Oct. 1948. 47.8 Am32
- 3927 MUSSEHL, F. E. The what, why and how to teaching poultry husbandry. (Abs.) Poultry Sci. 27: 678. Sept. 1948. 47.8 Am33P
- 3928 NAETHER, C. Autumn in the pigeon loft. All-Pets Mag. 19(9): 60-61. Sept. 1948. 48.8 AL5
- 3929 NUILA LÓPEZ, L. La crianza de gallinas. Rev. Ganad. [San Salvador] 7(104/105): 25-29, 31-32. July/Aug. 1948. 8 R3292
- 3930 OGLE, R. C. Dry litter keeps hens fitter. Breeder's Gaz. 113(10): 22. Oct. 1948. 49 B74
- 3931 OKAZAKI, G. Comments on sexing; the necessity for the process on day-old chicks—its advantages to the poultry industry. Amer. Egg & Poultry Rev. 9(10): 56. Sept. 1948. 47.8 Am38
- 3932 PASSEBON, L. Particularités de l'aviculture en Amérique. Vie à la Campagne 37: 234-235. Aug. 1948. 80 V67
- 3933 PENN, F. Give those new pullets a flying start. Poultry Farmer [London] 119(3089): 8-9. Sept. 17, 1948. 47.8 F312
- 3934 PONSIGNON, M. Pour que votre poulailler familial vous rémunère. Vie à la Campagne 37: 236. Aug. 1948. 80 V67
- 3935 POWELL-OWEN, W. It's time they settled down. Now is the time to think of winter eggs. The behaviour of the maturing pullets as they are approached reveals the skill or otherwise of their attendant. Poultry World 83: 190-191. Sept. 17, 1948. 47.8 P8682
- 3936 POWELL-OWEN, W. Part-time trapnesting can be of invaluable assistance now as an aid to more efficient culling. Poultry World 83: 160. Sept. 3, 1948. 47.8 P8682
- 3937 POWELL-OWEN, W. Stock males under control. The problem of "scrapping" can be mastered by special accommodation, well away from female stock, and careful grouping. Poultry World 83: 175. Sept. 10, 1948. 47.8 P8682
- 3938 POWELL-OWEN, W. Test schedules must change. Poultry World 83: 141. Aug. 27, 1948. 47.8 P8682
- 3939 POWELL-OWEN, W. Test teams—the final choice. If all "possibles" are kept under observation in groups, selection may be left until the last moment. Poultry World 83: 211. Sept. 24, 1948. 47.8 P8682
- 3940 POWELL-OWEN, W. These birds will win; choosing six pullets for the laying test is an unenviable task. Here are some finer points which will assist the breeder. Poultry World 83: 243. Oct. 8, 1948. 47.8 P8682
- 3941 POWELL-OWEN, W. These jobs won't wait, nor can they be entrusted to inexperienced assistants. Poultry World 83: 226-227. Oct. 1, 1948. 47.8 P8682  
Poultry care.
- 3942 RADETZKY. Allgemeines über die wasser-geflügelzucht. Kleintier-Zücht. Tierbörse 2(41): 1-2. Aug. 10, 1948. 49 K672  
Raising ducks and geese in Germany.
- 3943 RHEINGANTZ, O. L. O. Better hens, more eggs and more money! (In Portuguese.) Granja 3(33): 38-39. (Cont.) Juhe 1948. 9.2 G76
- 3944 RODON, J. M. El vigor en las aves. Cult. Mod. 31: 300-301. Aug. 1948. 15 C89
- 3945 ROMANOFF, A. L. Artificial incubation progress. Poultry [London] 103: 211. Sept. 14, 1948. 47.8 P869  
Summary of paper given at World's Poultry Congress, Copenhagen.
- 3946 ROSCOE, C. Prevent ducks from being frightened. Poultry [London] 103: 212. Sept. 14, 1948. 47.8 P869
- 3947 ROSENHEIM, H. H. More eggs from lights. Analyze data from survey of poultry husbandry department of fifty-five agricultural colleges. Amer. Egg & Poultry Rev. 9(10): 106. Sept. 1948. 47.8 Am38
- 3948 ROSTRUP, F. Sex sorting of day old chickens. (In Norwegian.) Norsk Landbr. 14: 343-346. Sept. 17, 1948. 11 N8122
- 3949 RUMBALL, P. Health in the hatchery. Poultry Farmer [Sydney] 16(5): 24, 26. July 31, 1948. 280.28 Or32
- 3950 RUMLER, R. H. Ciencia aplicada: revolución en el gallinero. Rev. Nac. de Cien. Polit.-Econ.-Sociales 7(82): 10. Sept. 1948. 280.8 R3295
- 3951 RUPPEN, K. Geflügelzucht in berggebieten. Geflügelhof 11: 579-580. Sept. 10, 1948. 47.8 G276
- 3952 SCOVILLE, G. P. How does your farm compare. Complete records help to determine how profitable a flock is. Amer. Poultry J. 79(10): 6, 26-27. Oct. 1948. 47.8 Am32
- 3953 SIMONPIETRI, R. H. Higiene y profilaxis en parques y gallineros. Chacra 18(215): 78-79, 152. Sept. 1948. 9 C34
- 3954 SOBRERO, L. R. Instalación del gallinero. Pampa Argentina 22(252): 14. Aug. 1948. 9 P19
- 3955 STAFFE, A., and EBBELL, H. Light effects. Mod. Poultry Keeping 59: 232. Sept. 8, 1948. 47.8 Eg3  
Summary of paper given at World's Poultry Congress, Copenhagen.
- 3956 TAYLOR, J. C. Raising your 4-H chicks. N. J. Agr. Col. Ext. Leaflet 18, 4 p. June 1948. 275.29 N46L
- 3957 TAYLOR, L. W. Fundamentals vs. rules-of-thumb in beginning courses. (Abs.) Poultry Sci. 27: 684. Sept. 1948. 47.8 Am33P
- 3958 TAYLOR, L. W. The 25% that's wasted. Nulaid News 26(5): 6-7. Sept. 1948. 47.8 N917  
Losses in hatching eggs.
- 3959 TERMOHLEN, W. D., and REYNOLDS, D. D. Report of World Poultry Congress. Washington? U. S. D. A., Off. Inform., 1948. 3 p. 1.944 D2T27
- 3960 TOMEY, A. F. Precocious pullets are best layers if held back. Poultry Farmer [London] 119(3088): 8. Sept. 10, 1948. 47.8 F312
- 3961 TORRES, A. DI P. Poultry raising. (In Portuguese.) Rev. Rur. Bras. 28(333): 20-22. June 1948. 9.2 B733
- 3962 TURÉGANO, F. F. El gallinero rural. Ganadería [Madrid] 6: 251-252. May 1948. 49 G15
- 3963 U. S. BUR. OF ANIMAL INDUSTRY. Trend of average egg production in United States as related to development of poultry industry. Washington? 1948? Chart. 1.972 A3T72
- 3964 VONDELL, J. H. Let's take a trip through a 1949-model hatchery. Everybody's Poultry Mag. 55 i. e. 53(10): 14-15. Nov. 1948. 47.8 F213P
- 3965 WARE, H. G. Poultry judging and team demonstration contests for 4-H Club members. (Abs.) Poultry Sci. 27: 685. Sept. 1948. 47.8 Am33P
- 3966 WAUCHEK, W. Encerrando las pollitas. Agr. y Ganad. 24(8): 24-28. Aug. 31, 1948. 8 Ag834
- 3967 WILSON, W. O. Some effects of increasing environmental temperature on pullets. (Abs.) Poultry Sci. 27: 686. Sept. 1948. 47.8 Am33P
- 3968 WINNER, E. B. Use of industry sponsored county poultry improvement days. (Abs.) Poultry Sci. 27: 686. Sept. 1948. 47.8 Am33P
- 3969 WINTER, A. R., and SCHLAMB, K. F. Influence of range versus confinement rearing on growth, feed consumption, egg production and livability. Poultry Sci. 27: 571-578. Ref. Sept. 1948. 47.8 Am33P
- 3970 WINTERS, S. R. "Fishy eggs"—individual hen trait. Amer. Poultry J. 79(10): 28. Oct. 1948. 47.8 Am32
- 3971 WYOMING. AGRICULTURAL EXPERIMENT STATION. The use of oxygen in the hatching of chicken and turkey eggs at high altitudes, by M. H. Meshew. Laramie, 1948. 9 p. (Prog. Rpt.) 47 W99
- 3972 ZANONI, G. Poultry raising in batteries. (In Italian.) Terra e Sole 69/70: 685. Sept. 1948. 16 T273
- 3973 ZUCHER, H. Nebenerwerbszweige des geflügelhalters. Geflügelhof 11: 589, 596. Sept. 17, 1948. 47.8 G276



3974 ZUMBRO, P. B. Poultry's United Nations: poultrymen of 32 nations exchange information; Termohlen elected president [of World's Poultry Science Association]. Poultry Tribune 54(9): 12, 30-33. Oct. 1948. 47.8 P8642

Report on the 8th World's Poultry Congress, in Copenhagen.

## RABBITS

### Breeds and Breeding

3975 ALLEN, J. J. It's up to you. Small Stock Mag. 32(10): 4-5. Oct. 1948. 48.8 P442

Rabbit breeding.

3976 BEHRENS, M. E. The American Chinchilla Giant. Small Stock Mag. 32(11): 3, 30-32. Nov. 1948. 48.8 P442

3977 COOK, MRS. F. One way to shear an Angora. Small Stock Mag. 32(10): 48-49. Oct. 1948. 48.8 P442

3978 COUCH, V. M. Checkered Giants, a good meat and show rabbit. Calif. Rabbits News 9(7): 3. Oct. 1948. 40.28 C12

3979 CUOZZO, R. F. Breed improvement and the R.O.P. Amer. Rabbit J. 18: 117-118. Sept. 1948. 40.28 Am3

3980 HIGGINS, MRS. M. Why don't more women raise Flemish? Small Stock Mag. 32(10): 19. Oct. 1948. 48.8 P442

3981 HOULDSON, E. Weights on Checkered Giants. Amer. Rabbit J. 18: 101. Aug. 1948. 40.28 Am3

3982 HOULDSON, E. Where are the Checkers? Calif. Rabbits Mag. 12(3): 6. Oct. 1948. 40.28 Sa5

3983 LIPPINCOTT, T. Checkered Giants, a sound investment. Small Stock Mag. 32(11): 6, 45. Nov. 1948. 48.8 P442

3984 METZ, A. Our American Creme. Small Stock Mag. 32(10): 8, 69. Oct. 1948. 48.8 P442

3985 NEUBAUER, E. Der kaninchenzüchter nach der währungsreform. Kleintier-Zücht. Tierbörse 2(41): 6-7. Aug. 10, 1948. 49 K672

3986 PEIRANO, R. P. Aclimatación del conejo Rex en nuestro país. Campo y Suelo Argentino 32(382): 60-61. Aug. 1948. 9 C15

3987 RICHTER, H. Das Angorakaninchen. Osterr. Kleintierzüchter 1948: 445. Sept. 1948. 49 Os7

3988 ROMPERT. Unsere Holländer-kaninchen einmal anders gesehen. Kleintier-Zücht. Tierbörse 2(42): 1, 6. Aug. 25, 1948. 49 K672

3989 SAWIN, P. D. Genetic factors in breed improvement. 2. On milk production. Amer. Rabbit J. 18: 120-121. Sept. 1948. 40.28 Am3

3990 SCHMIDTHUBER, K. Einmal etwas vom Marburger Feh. Osterr. Kleintierzüchter 1948: 438-439. Sept. 1948. 49 Os7

Rabbits:

3991 SCHMIDTHUBER, K. Schwarzsilber. Osterr. Kleintierzüchter 1948: 423. (Concl.) Aug. 1948. 49 Os7

Rabbits:

3992 SLEZAK, F. Das Castorrexkaninchen. Osterr. Kleintierzüchter 1948: 439-440. Sept. 1948. 49 Os7

3993 STEVENS, H. M. About "Californian" rabbits. Angora Rabbit Mag. 4(3): 3. Oct. 1948. 40.28 An42

3994 SWAIN, P. B., and JACKSON, R. B. Fostering in a breed improvement program. Angora Rabbit Mag. 4(3): 9, 16. Oct. 1948. 40.28 An42

3995 VAN HOUT, F. Plus de tatonnement dans la création d'excellentes lignées de lapins à fourrure. Courrier Hort. 10: 489-490. Aug. 1948. 80 C834

3996 VICKREY, K. C. A breed made to order: Champagnes. Small Stock Mag. 32(10): 24. Oct. 1948. 48.8 P442

### Feeds and Feeding

3997 ARNOULE, C. L'alimentation des lapins. Acclimatation 75: 198. Sept. 18, 1948. 14 Ac2

3998 TEMPLETON, G. S. Fur-eating habit in rabbits checked by correct feeding. West. Farm Life 59(18): 39. Sept. 15, 1948. 6 R153

### Veterinary Medicine

3999 CHANG, M. C. Probability of normal development after transplantation of fertilized rabbit ova stored at different temperatures. Soc. Expt. Biol. & Med. Proc. 62: 680-683. July/Aug. 1948. 442.9 Sol

4000 CLEMMESSEN, J., and ANDERSEN, E. K. Influence of roentgen radiation on the spread of vaccinia virus in young rabbits. Acta Path. et Microbiol. Scand. 25: 615-618. 1948. 448.3 Ac8

4001 CRADDOCK, C. G., JR., and LAWRENCE, J. S. The effect of roentgen irradiation on antibody formation in rabbits. J. Immunol. 60: 241-254. Ref. Oct. 1948. 448.8 J8232

4002 EMMENS, C. W., and SWYER, G. I. M. Observations on the motility of rabbit spermatozoa in dilute suspension. J. Gen. Physiol. 32(1): 121-138. Ref. Sept. 20, 1948. 447.8 J822

4003 KELLOGG, C. E. Present knowledge of pseudo-rumination. Amer. Rabbit J. 18: 119. Sept. 1948. 40.28 Am3

Coprophyagy in rabbits.

4004 KIMELDORF, D. J. Excretion of 17-keto-steroids by male rabbits during altered gonadal function. Endocrinology 43: 83-88. Ref. Aug. 1948. 448.8 En2

4005 MUNTE, V. Enfermedades más comunes del conejo. Cult. Mod. 31: 206-207. June 1948. 15 C89

4006 TEMPLETON, G. S. Does the rabbit chew its cud? Calif. Rabbits News 9(7): 3. Oct. 1948. 40.28 C12

4007 THIBAUT, C. L'activation et la régulation de l'ovocyte parthénogénétique de lapine. Soc. de Biol. Compt. Rend. 142: 495-497. Apr. 1948. 442.9 P21

### Miscellaneous

4008 BLAIN, M. Maniere de tuer le lapin. Pelleteries du Québec 19(10): 10. Aug. 1948. 412.628 P36

4009 BRILL, R. R. Let's blow off the froth and get down to the stew. Small Stock Mag. 32(10): 63. Oct. 1948. 48.8 P442

On the American Rabbit and Cavy Breeders Association.

4010 COUCH, V. M. Details important in raising rabbits. Amer. Rabbit J. 18: 122. Sept. 1948. 40.28 Am3

4011 COUCH, V. M. Importance of raising more rabbits. Amer. Rabbit J. 18: 102. Aug. 1948. 40.28 Am3

For meat.

4012 HANGLIN, P. J. Rabbits. Young Farmer 16: 139, 152. (To be cont.) Sept./Oct. 1948. 10 Y8

Care.

4013 HEUMANN, J. M. F. Benefits of a hobby. Amer. Rabbit J. 18: 101. Aug. 1948. 40.28 Am3

4014 KRAMER, A. About judging rabbits. Small Stock Mag. 32(10): 8. Oct. 1948. 48.8 P442

4015 PETERSEN, MRS. W. Where are the good rabbits? Small Stock Mag. 32(10): 69. Oct. 1948. 48.8 P442

For meat production.

4016 REIS, J. L. M. Raising rabbits. (In Portuguese.) Lavoura 52: 71. Mar./Apr. 1948. 9.2 L39

4017 SAWIN, P. D. The record of performance program. Amer. Rabbit J. 18: 115-117. Sept. 1948. 40.28 Am3

4018 SEARL, B. Record of performance program. Angora Rabbit Mag. 4(3): 1, 18. Oct. 1948. 40.28 An42

4019 SLEZAK, F. Über die bewertung unserer kaninchen. Osterr. Kleintierzüchter 1948: 422. (Concl.) Aug. 1948. 49 Os7

4020 SMYTH, MRS. W. Care of the young [rabbit]. Small Stock Mag. 32(10): 22-23. Oct. 1948. 48.8 P442

4021 WILSON, W. K. Growing rabbits need good management. Poultry [London] 103: 194. Sept. 7, 1948. 47.8 P869

## SHEEP AND GOATS

### Breeds and Breeding

4022 BEAUFILS, and PRADÈRE. La race ovine de Texel. Potasse 22: 142-144. Sept. 1948. 57.8 P84

4023 BLIN, H. Le Mérinos précoce du Soissonnais; ses facultés d'adaptation et sa rusticité. Mouton 2: 80-81. July 10, 1947. 45.8 M86

4024 CANADIAN SHEEP BREEDERS' ASSOCIATION. Canadian national record for sheep. v. 36. 460 p. Owen Sound, 1948. 45.9 D71

4025 CONTRAIN, P. La sélection des moutons Mérinos en Afrique Australe. Mouton 3: 3-6. Jan. 10, 1948. 45.8 M86



- 4026 DASSAT, P. One of the European breeds producing the most milk: the Langhe sheep. (In Italian.) *Glor. di Agr.* 58: 237. Sept. 5, 1948. 16 It1G
- 4027 DE YOUNG, MRS. W. The history of the British Alpine. *Better Goatkeeping* 4: 765. Sept. 1948. 40.18 B46
- 4028 DE YOUNG, MRS. W. The history of the Swiss Alpine. *Better Goatkeeping* 4: 764. Sept. 1948. 40.18 B46
- 4029 DOMINGUES, O. Four defects to avoid in rams. (In Portuguese.) *Agronomia [Rio de Janeiro]* 6: 231-232. July/Sept. 1947. 9.2 Ag892
- 4030 DORSET HORN SHEEP BREEDERS' ASSOCIATION. The flock book of Dorset Horn Sheep. v. 56-57. Dorchester, Ling, 1947-1948. 45.9 D732
- 4031 FAY, A. DE. L'adaptation du troupeau "Ile-de-France" en Hongrie. *Mouton* 2: 107. Oct. 10, 1947. 45.8 M86
- 4032 GARDNER, P. A. Double crossing breeds; better lambs cheaper. *Farmer's Mag.* 45(9): 11, 54. Sept. 1948. 7 C165
- 4033 KENT OR ROMNEY MARSH SHEEP-BREEDERS' ASSOCIATION, INC. The flock book of the Kent or Romney Marsh sheep. v. 54. 422 p. London, Headley, 1948. 45.9 K41
- 4034 KNIGHT, E. D. Our experience in cross breeding for wool production. *East. Breeder* 10(5): 47-48. Oct. 1948. 49 V81
- 4035 LEBEL, L. D. Pridonskie pukhovye kozy [Downy goats of the Don region]. Stalingrad, Obl. kn-vo, 1947. 51 p. 40.1 L49P
- 4036 LE GALLAIS, P. Caractéristiques de la production lainière des principales races de moutons en France. *Mouton* 3: 27-29. Mar. 10, 1948. 45.8 M86
- 4037 LINK, P. El Shropshire. *Lanares y Lanos* 3 (10/11): 51-53. Jan./June 1948. 45.8 L22
- 4038 MAHAJAN, M. R., and KHAN, A. A. Jamnapari goats. *Indian Farming* 9: 148-150. Apr. 1948. 22 In283
- 4039 MOULE, G. R. Fertility and infertility of sheep. *Queensland Agr. J.* 66: 353-365. June 1948. 23 Q33
- 4040 MUÑOZ, A. A. Se lo diré en secreto o el origen del Karakul marrón. *Ganadería [Madrid]* 6: 246-250. May 1948. 49 G15
- Genetics.
- 4041 NEALE, P. E. Picking those high producing rams. *West. Live Stock* 34(2): 112. Sept. 1948. 49 W523
- 4042 PERGUET, M. Les importations en Algérie de géniteurs ovins de race pure. *Mouton* 3: 66. June 10, 1948. 45.8 M86
- 4043 PISSALOUX, R. La race ovine Barbarine à grosse queue. *Mouton* 3: 63-65; 77-79. June 10-July 10, 1948. 45.8 M86
- 4044 STARR, R. V. Influence of feed on twinning in Karakul sheep. *Fur Farming J.* 2(2): 8, 20. Sept./Oct. 1948. 45.8 K142
- 4045 TESTONI, R. The Paduan sheep. A very profitable breed adapted to the small breeding establishment. (In Italian.) *Riv. di Zootec.* 21: 207-210. June 1948. 49 R52
- 4046 THIEULLOY, E. DE. L'Avranchin, mouton d'herbage. *Mouton* 3: 71. June 10, 1948. 45.8 M86
- 4047 THIEULLOY, E. DE. L'élevage ovin en Angleterre. *Mouton* 2: 63-65; 3: 31-32. June 10, 1947, Mar. 10, 1948. 45.8 M86
- 4048 VALOUS, J. C. DE. L'élevage de la Char-moise en plein air dans la Côte-d'Or. *Mouton* 2: 113-114. Dec. 10, 1947. 45.8 M86
- 4049 VELU, H. Allons-nous changer de méthodes? *Mouton* 2: 27-29. Mar. 10, 1947. 45.8 M86
- Sheep breeding in France.
- 4050 WENSLEYDALE LONGWOOL SHEEP BREEDERS' ASSOCIATION. Flock book of Wensleydale Longwool sheep. v. 59. Grange-over-Sands, Wadsworth, 1948. 32 p. 45.9 W482
- Feeds and Feeding
- 4051 BLIN, H. La transhumance, moyen de conjurer la crise de l'élevage ovin. *Rustica* 21: 713. Oct. 3, 1948. 14 R92
- 4052 BREIREM, K. Calculation of the consumption of feed units for sheep on pasture. (In Norwegian.) *Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Fôringslære. Særtrykk* 28: 159-172. København, 1947. 389.79 N76
- English summary.
- 4053 CHARON, A. J. Nos chèvres et les fruits. *Rustica* 21: 664. Sept. 19, 1948. 14 R92
- 4054 DUCK, R. W. Live stock and dairy; those nice fat lambs. *Rural New-Yorker* 98: 618. Oct. 2, 1948. 6 R88
- Feeding lambs.
- 4055 GUSLER, G. Lamb feeding prospects. *Mont. Farmer-Stockman* 36(4): 9, 27. Oct. 15, 1948. 6 M764
- 4056 MELDRUM, L. E., and others. Supplementary feeding of sheep on the winter range; phosphorus supplements increased wool production, lamb crop and weight of ewes. *Farm & Home Sci. [Utah Sta.]* 9(3): 8-11. Sept. 1948. 100 Ut1F
- L. A. Sharp, L. E. Harris, C. W. Cook, L. A. Stoddart, and L. L. Madsen, joint authors.
- 4057 ROBINSON, P. The effect of supermaintenance diets on mature Border Leicester-Cheviot ewes. *J. Agr. Sci. [London]* 38: 345-353. July 1948. 10 J822
- 4058 TOSIC, J., and MITCHELL, R. L. Concentration of cobalt by micro-organisms and its relation to cobalt deficiency in sheep. *Nature [London]* 162: 502-504. Ref. Sept. 25, 1948. 472 N21
- 4059 WALLACE, L. R. The growth of lambs before and after birth in relation to the level of nutrition. II-III. *J. Agr. Sci. [London]* 38: 243-302. July 1948. 10 J822
- 4060 WILLMAN, J. P., and others. Lamb fattening experiments. *Natl. Wool Grower* 38(10): 26, 28. Oct. 1948. 45.8 N21N
- L. B. Embry, F. B. Morrison, and E. W. Klosterman, joint authors.

#### Veterinary Medicine

- 4061 ALLEN, R. W., and JONGELING, C. H. The efficacy of lead arsenate in removing Moniezia from lambs. *North Amer. Vet.* 29: 645-648. Oct. 1948. 41.8 N812
- 4062 BALDWIN, E. M., JR. Ovine enterotoxemia and its control by biological agents. (Abs.) *Tex. Vet. B.* 10(8): 3. Aug. 1948. 41.8 T31
- 4063 BLIN, H. Le pica des agneaux. *Mouton* 2: 55. May 10, 1947. 45.8 M86
- 4064 CAMPBELL, R. H. Drenching. *Better Goat-keeping* 4: 787. Oct. 1948. 40.18 B46
- 4065 CEDRO, V. C. F. La Moniezia expansa y sus estragos en el ovino. *Campo y Suelo Argentino* 32(382): 18-19, 21. Aug. 1948. 9 C15
- 4066 CHARNOT, La lutte contre le "Darmous" au Maroc. *Mouton* 3: 67-68. June 10, 1948. 45.8 M86
- 4067 CORNER, H. H. Cobalt gives a marked response; how sheep can be built up to resist pine and other forms of debility and anemia by means of cobalt salts. *Farmer & Stock-Breeder* 62: 2133. Sept. 14, 1948. 10 F228
- 4068 CRAWFORD, A. B. The responsibility of the goatkeeper with relation to brucellosis in goats. *Better Goatkeeping* 4: 781-783. (To be cont.) Oct. 1948. 40.18 B46
- 4069 CREPIN, P. La tuberculose caprine. *Mouton* 2: 79. July 10, 1948. 45.8 M86
- 4070 DUTT, R. H., and CASIDA, L. E. Alteration of the estrual cycle in sheep by use of progesterone and its effect upon subsequent ovulation and fertility. *Endocrinology* 43: 208-217. Ref. Oct. 1948. 448.8 En2
- 4071 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Fluke or liver rot in sheep. *Gt. Brit. Min. Agr. and Fisheries. Anim. Health Leaflet* 6, 6 p. Apr. 1948. 41.9 G792A
- 4072 HARRIS, J. R., and others. The concentration of DDT in the blood and tissues of sheep fed varying levels of DDT. *Farm & Home Sci. [Utah Sta.]* 9(3): 13-14. Sept. 1948. 100 Ut1F
- C. Biddulph, D. A. Greenwood, M. J. Bryson, L. E. Harris, M. L. Miner, W. Binns, and L. L. Madsen, joint authors.
- 4073 INGRAM, M., and MCGAUGHEY, C. A. Microflora of the rumen of the sheep. *Nature [London]* 162: 533-534. Oct. 2, 1948. 472 N21
- 4074 KELSO, W. T. Electrocardiograms of young lambs. *Queensland J. Agr. Sci.* 4: 60-77. Ref. Sept. 1947. 23 Q39



4075 KENDREW, J. C., and PERUTZ, M. F. A comparative X-ray study of foetal and adult sheep haemoglobins. Roy. Soc., London. Proc., Ser. A, Math. & Phys. Sci. 194: 375-398. Ref. Sept. 2, 1948. 501 L84A

4076 KUDRIASHOV, M. V. Use of Proserine in the treatment of endometritis in sheep. (In Russian.) Veterinaria 25(3): 25-27. Mar. 1948. 41.8 V6426

4077 KUPPUSWAMY, P. B. 'Pitto' and 'gillar' in sheep and goats. Indian Farming 9: 73-74. Feb. 1948. 22 In283

4078 LEVECK, H. H. Test benefits drenching lambs at weaning time. Miss. Farm Res. [Miss. Sta.] 11(9): 7. Sept. 1948. 100 M69Mi

4079 MEUNIER, P., FERRANDO, R., and CHENAVIER, P. Le taux de tocophérol (vitamine E) sanguin du mouton. Action de l'huile de foie de morue. Soc. de Biol. Compt. Rend. 142: 525-527. Apr. 1948. 442.9 P21

4080 MINETT, F. C. Pathogenesis of black quarter. I. Tissue damage and spore latency. J. Compar. Path. & Ther. 58: 201-209. Ref. July 1948. 41.8 J82 In sheep.

4081 PAJUELO VERA, J. A. Enfermedades parasitarias del ganado ovejuno en las punas del Perú. Lanares y Lanos 3(10/11): 12-14. (Concl.) Jan./June 1948. 45.8 L22

4082 PARKER, W. H. Black disease [of sheep] in Shropshire and the prophylactic effect of Clostridium oedematis serum. Vet. Rec. 60: 417. Aug. 28, 1948. 41.8 V641

4083 PICHON, G. Les arthrites des agneaux. Mouton 2: 31-32. Mar. 10, 1947. 45.8 M86

4084 PICHON, G. La coccidiose intestinale du mouton. Mouton 2: 115-116. Dec. 10, 1947. 45.8 M86

4085 PICHON, G. L'entéro-toxémie du mouton. Mouton 3: 91-92. Sept. 10, 1948. 45.8 M86

4086 PICHON, G. Le tétanos du mouton. Mouton 3: 19. Feb. 10, 1948. 45.8 M86

4087 STAMP, J. T., and WATT, J. A. Disease survey of Sourhope farm. Scot. Agr. 28: 101-105. Autumn 1948. 10 Sco82So  
Sheep diseases.

4088 TAPERNOUX, A., and JOCHEM, G. L'élimination mammaire de la sulfamidopyridine ( $\alpha$  paraaminobenzène sulfonamidopyridine sodée) chez le chèvre. Soc. de Biol. Compt. Rend. 142: 528-530. Apr. 1948. 442.9 P21

4089 VERON, H. A. Hypocalcaemia of sheep and cattle. Wilcox Mofflin Q. 3(2): 1-5. July 1948. 23 W64

4090 VOLKOVA, Z. M. Experiment in control of fascioliasis in sheep by anthelmintic measures against the larvae. Veterinaria 25(4): 25-27. Apr. 1948. 41.8 V6426

4091 WHITTEN, L. K., HARBOUR, H. E., and ALLAN, W. S. Cutaneous Erysipelothrix [rhysioopathiae] infection in sheep; an etiologic factor in post-dipping lameness. Austral. Vet. J. 24: 157-163. July 1948. 41.8 Au72

4092 WILSON, D. R., and GORDON, W. S. Studies in louping-ill. IV. Passive immunity. J. Compar. Path. & Ther. 58: 210-226. July 1948. 41.8 J82

4093 ZWILETITSCH, F. Zurückbleiben der nachgeburt bei der ziegen. Osterr. Kleintierzüchter 1948: 444. Sept. 1948. 49 Os7

#### Miscellaneous

4094 BLIN, H. Production de l'agneau de lait dans le Midi. Mouton 3: 83; 82. July 10, 1948. 45.8 M86

4095 BLIN, H. Les troupeaux coopératifs d'élevage ovin. Mouton 3: 8. Jan. 10, 1948. 45.8 M86

4096 CAYSSIALS, A. A. Selección y factores a tener en cuenta en la crianza ovina del Uruguay. Uruguay. Min. de Ganad. y Agr. B. Inform. 228: 13, 12. July 22, 1948. 9.9 G15B

4097 CLARENS, L. Pour l'amélioration et l'organisation de l'élevage du mouton dans l'Ariège. Mouton 2: 51-54. May 10, 1947. 45.8 M86

4098 CREPIN, P. La chèvre d'utilité publique. Mouton 3: 73-74. July 10, 1948. 45.8 M86

4099 DELACOUR, F. Conservons nos moutons. Mouton 3: 13-14. Feb. 10, 1948. 45.8 M86  
Union Ovine de France.

4100 GALINDO, A. Hablando de ovejas. Cult. Mod. 31: 209. June 1948. 15 C89.

4101 HOYS, D. Fighting to live; sheep rearing in West Cumberland [England] is hard "but well worth it." Field 192: 234-235. Aug. 28, 1948. 10 F45

4102 KHOT, S. S., and RAMCHANDRAN, K. N. Fine woolled sheep in Nilgiris. Indian Farming 9: 63-66. Feb. 1948. 22 In283

4103 KRAFFT DE BOERIO, C. De la chèvre des champs a la chèvre des villes. Mouton 2: 103-104. Oct. 10, 1947. 45.8 M86  
Raising goats for milk production.

4104 LALLOUR, M. Une politique française du mouton. Mouton 3: 1-2. Jan. 10, 1948. 45.8 M86

4105 LEFRANCO, P. Les transactions de géniteurs ovins français au cours de l'année 1947. Mouton 3: 23. Feb. 10, 1948. 45.8 M86  
L'Union Ovine de France.

4106 MESTRE, L. La France peut produire plus de moutons et plus de laine avec moins de bergers. Mouton 3: 87-89. Sept. 10, 1948. 45.8 M86

4107 NAERLAND, G. The Norwegian sheep-farmers' calendar. Scot. Agr. 28: 106-109. Autumn 1948. 10 Sco82So

Sheep care through the year.

4108 NEALE, P. E. Body weights of range sheep. N. Mex. Agr. Expt. Sta. Press B. 1024, 2 p. Sept. 1948. 100 N465

4109 PAUL, B. Heranziehung der schafe zur milch- und fettgewinnung. Kurzbrieft. Ernähr. u. Landw. 7, A III 3b, 2 p. July 1948. 281.8 K96

4110 PERRY, R. The Shetland sheep. Country Life [London] 104: 639. Sept. 24, 1948. 80 C83

4111 POLLOS Y HERRERA, J. La comprobación del rendimiento lechero en las ovejas. Ganaderia [Madrid] 6: 309-311. June 1948. 49 G15

4112 PRELL, H. F., and PRELL, M. A. Value of knowing [a sheep's] pedigree; studbreeders read character from card records. Farmer & Settler 43(25): 7. July 16, 1948. 23 F226

4113 RENOM, J. A. La explotación de los ovinos. Pampa Argentina 22(252): 1, 3. Aug. 1948. 9 P19

4114 SANTOLALLA, N. R. Creación de importantes planteles de ovejas y cabras lecheras. Lanares y Lanos 3(10/11): 42-44. Jan./June 1948. 45.8 L22  
In Peru.

4115 SCRUGGS, C. G. Sheep pay double-barreled profits. Prog. Farmer, Tex. Ed. 63(10): 17. Oct. 1948. 6 T311

Chiefly management.

4116 SHEEHY, E. J. The animal on the farm; production of mutton and wool. Agr. Ireland 5: 233, 235-236. Oct. 1948. 10.5 Ag8  
No. 60 of the series.

4117 SMITH, C. S. The flock is gone from the hill. Farmers Weekly [London] 29(12): 38-39. Sept. 17, 1948. 10 F2226

Change-over from dairy to sheep farming on an English farm.

4118 STRATTON, C. L. Why not raise sheep? New England Homestead 121(18): 10, 25. Sept. 25, 1948. 6 N442

Chiefly care.

4119 SVENSKA FÄRAVELSFÖRENINGEN. Annual report of the Swedish Sheep Breeder's Association. (In Swedish.) Svenska Färelsför. Tidskr. 28: 9-31. 1948. 45.9 Sv2

4120 TOLEDO LAZO, A., and SAN MARTÍN, M. Alpacas y vicuñas y su plan de mejoramiento. Lanares y Lanos 3(10/11): 47-50. (To be cont.) Jan./June 1948. 45.8 L22

Wool production.

4121 TUCKER, G. J. Herding sheep, which way? Natl. Wool Grower 38(10): 20-21, 24-25. Oct. 1948. 45.8 N21N

4122 WELCH, H. Health inspection at shipping time. Mont. Wool Grower 22(10): 24. Oct. 1948. 45.8 M762

#### SWINE

##### Breeds and Breeding

4123 BREKKE, T. Results from swine experiments at the State Pig Breeding Station, 1932-1944. (In Norwegian.) Tidsskr. for det Norske Landbr. 1948: 109-149. May/June 1948. 11 T433  
English summary.



- 4124 COFFEY, J. S. The Berkshire in detail. *Berkshire News* 14(1): 4, 21. Nov. 1948. 46.8 B454
- 4125 DOMINGUES, O. Sows should be prolific. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7(1): 41-42. Jan./Mar. 1948. 9.2 Ag892
- 4126 FOLEY, W. T. Christen the No. 2 hog. *Farmer [St. Paul]*, Gen. Ed. 66(19): 8. Oct. 2, 1948. 6 F2211
- Minnesota No. 2.
- 4127 GODINHO, J. F. Caruncho Vermelho swine. (In Portuguese.) *Rev. Rur. Bras.* 28(332): 32. May 1948. 9.2 B733
- Brazilian breed.
- 4128 HUGHES, E. H. Swine production; development of bacon-type hog considered by California growers. *Calif. Agr. [Calif. Sta.]* 2(9): 15. Sept. 1948. 100 C12Ca
- 4129 WARWICK, E. J. Think twice when you buy a boar. *Berkshire News* 13(11): 62-63, 66. Sept. 1948. 46.8 B454
- 4130 WINTERS, L. M. Minnesota's swine breeding project. *Agr. Leaders' Digest* 29(9): 16-17. Sept. 1948. 275.28 Am3

#### Feeds and Feeding

- 4131 CANO, A. E. La leche y sus sub-productos en la alimentación de los porcinos. *Res* 16: 22609-22610. Aug. 20, 1948. 286.85 R31
- 4132 CAPUTO, J. R. Feed those hogs. *Christian Farmer* 1(12): 3, 6-7. Sept. 1948. 281.28 C28
- 4133 CARTWRIGHT, G. E., TATting, B., and WINTROBE, M. M. Niacin deficiency anemia in swine. *Arch. Biochem.* 19(1): 109-118. Ref. Oct. 1948. 381 Ar2
- 4134 CATRON, D. Building pigs before they're born. *Philfarmer* 1948: 4. Third Quarter 1948. 6 P53
- Gestation feeding.
- 4135 FLETCHER, J. L. Milo found satisfactory as pig feed. *Miss. Farm Res. [Miss. Sta.]* 11(10): 1, 5. Oct. 1948. 100 M69M1
- 4136 GRACIA, C. E. La industria del cerdo; breves notas sobre su alimentación. *Agr. Trop.* 4(9): 17-24. Sept. 15, 1948. 26 Ag8
- 4137 JOHNSON, B. C., and JAMES, M. F. Choline deficiency in the baby pig. *J. Nutr.* 36: 339-349. Sept. 10, 1948. 389.8 J82
- 4138 LACEY, J. J. Go easy with new corn. *Equity Co-op. Livestock News* 13(9): 7. Sept. 1948. 280.28 Eq5
- For swine feeding.
- 4139 LINDSTROM, M. Pigs need their vitamins too! *Ill. Agr.* 53: 6. Oct. 1948. 6 IL6
- 4140 LINDWALL, L. J. Whey can add 4 million kg. pork. (In Swedish.) *Lantmannen* 32: 561-562. Aug. 21, 1948. 11 L234
- 4141 LUECKE, R. W., and others. Further studies on the relationship of nicotinic acid, tryptophane and protein in the nutrition of the pig. *J. Nutr.* 36: 417-424. Ref. Sept. 10, 1948. 389.8 J82
- W. N. McMillen, F. Thorp, Jr., and C. Tull, joint authors
- 4142 MOORE, M. B., ROEPKE, M. H., and FERRIN, E. F. Can treated seed oats be fed to hogs? *Chester White J.* 38(10): 10. Oct. 1948. 46.8 W582
- 4143 PETERSEN, N. Les besoins minéraux chez le porc. *Porc* 18: 31. Jan./Feb. 1947. 46.8 P822
- 4144 QUAIFE, E. L., and CATRON, D. You'll hit pay dirt with fall pigs; here are some practical feedlot pointers and several of the latest experimental findings to help you get over the hump. *Successful Farming* 46(10): 171, 176-178. Oct. 1948. 6 Su12
- Chiefly feeding.
- 4145 ROBISON, W. L. Soybean oil meal for pigs. *Grain & Feed J. Consolidated* 101(5): 32-33. Sept. 8, 1948. 298.8 G762
- 4146 VAN DER NOOT, G. "Modern" swine feeding pays off. *N. J. Farm & Gard.* 19(10): 26, 45. Oct. 1948. 6 G162
- 4147 VESTAL, C. M. Prevent salt hunger in hogs. *Chester White J.* 38(10): 7-8. Oct. 1948. 46.8 W582
- 4148 WOODMAN, H. E., and EVANS, R. E. Nutrition of the bacon pig. XIII. *J. Agr. Sci. [London]* 38: 354-365. Ref. July 1948. 10 J822

#### Veterinary Medicine

- 4149 BOYNTON, W. H., and others. Further studies on propagation of hog cholera virus in vitro including electron micrographs. *Vet. Med.* 43: 403-406. Oct. 1948. 41.8 M69
- W. N. Takahashi, G. M. Woods, and W. W. Walker, joint authors.
- 4150 DONKER-VOET, J. *Brucella suis*. A short review of the most important facts on *Brucella suis* as they have become known from the literature of recent years. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55(1/2): 91-95. Ref. Apr. 1948. 41.8 V51
- 4151 JANOWSKI, H. Marginal notes on the production of swine anti-erysipelas serum. (In Polish.) *Med. Wet.* 4: 365-368. June 1948. 41.8 M463
- 4152 KOBUSIEWICZ, T., and GOSTYNSKA-STEF-FEN, J. Vaccin unique contre le rouget du porc selon le Prof. Staub. (In Polish.) *Med. Wet.* 4: 420-425. Ref. 41.8 M463
- French summary.
- 4153 KRANEVELD, F. C., and DJAENOEDIN, R. On so called local septicemia in pigs. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55(1/2): 81-84. Apr. 1948. 41.8 V51
- English summary.
- 4154 KROTOV, A. I. Extensiveness of ascariasis in swine and dates for anthelmintic measures against Ascarides. (In Russian.) *Veterinariia* 25(4): 24. Apr. 1948. 41.8 V6426
- 4155 LANNI, F., and BEARD, J. W. The mechanism of egg-white inhibition of hemagglutination by swine influenza virus. *Soc. Expt. Biol. & Med. Proc.* 68: 442-448. Ref. July/Aug. 1948. 442.9 Sol
- 4156 LOSINSKI, T. La grippe des porcellets. (In Polish.) *Med. Wet.* 4: 345-349. June 1948. 41.8 M463
- French summary.
- 4157 MIGO, O. B. Influencia de las vitaminas en las enfermedades del cerdo. *Aberdeen Angus [Buenos Aires]* 1948(39): 108-109. Winter 1948. 43.8 Ab33
- 4158 PRICE, E. K. Rupture of the diaphragm in a pig. *Vet. Rec.* 60: 457. Sept. 18, 1948. 41.8 V641
- 4159 TRINCÃO, C., and SIMÕES, J. M. P. Is *Balantidium coli* isolated from the feces of swine pathogenic to man? (In Portuguese.) *Ist. de Med. Trop. An.* 4: 161-163. Dec. 1947. 448.9 L88
- French and English summaries.
- 4160 WILSON, S. G. The trypanocidal effects of dimidium bromide (phenanthridinium 1553) on *Trypanosoma simiae* in domestic pigs. *Vet. Rec.* 60: 474-477. Oct. 2, 1948. 41.8 V641
- 4161 ZEBRACKI, A. A contributory note on the method of castration of young pigs suffering from a scrotal hernia. (In Polish.) *Med. Wet.* 4: 434-437. Ref. July 1948. 41.8 M463
- English summary.

#### Miscellaneous

- 4162 FOLEY, W. T. Make money with hogs. *Farmer [St. Paul]*, Gen. Ed. 66(20): 9, 25. Oct. 16, 1948. 6 F221
- Management.
- 4163 FOLKS, J. Sow culling is important for hog breeders. *Fla. Cattleman* 13: 24. Oct. 1948. 43.8 F66
- 4164 GRAHAM, E. H. The preparation of pigs for exhibition. *Queensland Co-op.* 3(14): 18. July 22, 1948. 280.28 Q3
- 4165 GROVES, D. E. Ohio to expand swine research. *Ohio Farmer* 202(7): 11, 18. Oct. 2, 1948. 6 Oh3
- 4166 HULBERT, J. C. Let's improve our hog shows. *Poland China World* 35(8): 41-43. Sept. 1948. 46.8 Sw62
- 4167 LUBKE, A. Ueber die ferkelsterblichkeit und ihre verhütung. *Württemb. Wchnbl. f. Landw.* 115: 225. Aug. 21, 1948. 18 W96
- 4168 MCMILLEN, W. N. Fall management [swine]. *OIC News* 4(10): 4. Oct. 1948. 46.8 Oil
- 4169 MCMILLEN, W. N. Production records increase profits. *OIC News* 4(9): 9. Sept. 1948. 46.8 Oil
- 4170 NAEF, A. Zürcher kantonaler schweinezüchterverband. *Grüne* 76: 907-910. Aug. 1948. 17 Sch9
- Switzerland.



- 4171 SMITH, D. J. Consider hog lot equipment. Fla. Grower 56(10): 26-27. Oct. 1948. 80 M72
- 4172 TYRRELL, W. P. Tennessee's program of sow testing. Livestock Weekly 2(46, sect. 2): 7. Sept. 23, 1948. 49 L753
- Also in Berkshire News 14(1): 32-33. Nov. 1948. 46.8 B454
- 4173 WINTERING hogs. Farm Q. 3(3): 62-65, 88, 90. Autumn 1948. 6 F22995

## ENTOMOLOGY

## GENERAL

- 4174 AHLBERG, O. The position of entomology in the Swedish public service. Ent. Tidskr. 69: 152-154. 1948. 421 En891
- 4175 ANDER, K. Quelques données sur l'exploration de la faune suédoise des insectes. Ent. Tidskr. 69: 145-151. 1948. 421 En891
- 4176 BATTE, E. G. A technique for mounting ectoparasites. J. Econ. Ent. 41: 523-524. June 1948. 421 J822
- 4177 BERTRAND, H. Les insectes hygropétriques. Entomologiste 4: 86-100. Ref. Mar./Apr. 1948. 421 En814
- 4178 BIBBY, F. F. Notes on the insect fauna of the Samar group, Philippines. Philippine J. Sci. 77: 61-81. May 1947. 475 P53
- 4179 BOURGIN, P. Observations écologiques dans la forêt du Grand-Orient. Entomologiste 4: 68-74. Mar./Apr. 1948. 421 En814
- 4180 CLÉMENT, P. Rajeunissement. Entomologiste 4: 85-86. Mar./Apr. 1948. 421 En814
- Entomological technique.
- 4181 COLLIN, J. E. On the interpretation of Article 31 of the International Rules of Nomenclature. Ent. Monthly Mag. 84: 235-236. Oct. 1948. 421 En86
- 4182 DIAKONOFF, A. A report on the fellowship for entomological studies in Europe. Chron. Nat. 104: 190-191. June 1948. 514 B31
- 4183 DUARTE, F. E. Holometabolic insects. (In Portuguese.) Agronomia [Rio de Janeiro] 6: 178-211. (To be cont.) July/Sept. 1947. 9.2 Ag892
- Discussion of the orders Mecoptera, Siphonaptera, Neuroptera, Trichoptera, and Lepidoptera.
- 4184 FISHER, K. J. Some geographical notes on west China localities. Entomologist 81: 213-219. (Concl.) Sept. 1948. 421 En8
- 4185 FRANKENBERG, G. V. Kleidung im tierreich. Natur u. Tech. 2(13): 1-7. July 1, 1948. 474 N215
- Chiefly insects.
- 4186 GONÇALVES, R. D. Control of pests and diseases of grapes. (In Portuguese.) Soc. Rur. Bras. Rev. 28(334): 34. July 1948. 9.2 B733
- 4187 GRANT, C. Selection between armed and unarmed arthropods as food by various animals. J. Ent. & Zool. 40: 66. Sept. 1948. 421 P77
- 4188 HERSHBERGER, R. V. Stain combinations in living insects. Ohio J. Sci. 48: 161-168. July 1948. 410 Oh3
- 4189 MEIRA, M. T. V. DE, SIMÕES, T. S., and NOGUEIRA, J. F. P. Observations on the insect fauna of the islands of Sal, Boa Vista, and S. Nicolau (Cape Verdes). (In Portuguese.) Inst. de Med. Trop. An. 4: 257-267. Dec. 1947. 448.9 L68
- French and English summaries.
- 4190 MILLER, J. S. The animal ecology of a field drainage stream near Tiverton with special reference to colonization. Blundell's School Sci. Soc. Mag. 2: 33-38. 1947. 410 B62
- Includes aquatic insects.
- 4191 MINER, F. D. A carbon tetrachloride killing bottle. J. Econ. Ent. 41: 506-507. June 1948. 421 J822
- 4192 PETERSON, A. A manual of entomological equipment and methods. Ed. 5, partially rev. Ann Arbor, Mich., Edwards, 1947. 184 p. 422 P442
- 4193 RAIZENNE, H. A new type of killing bottle and jar. Canada. Sci. Serv. Div. Ent. Processed P. 31, 3 p. Ottawa, 1948. 423.92 C16P
- 4194 REINACH, O. Note sur des insectes visiteurs d'aristoloches. Entomologiste 4: 100-101. Mar./Apr. 1948. 421 En814

- 4195 SHIVELY, A. W. Role of oviposition in plant gall production. Pa. Acad. Sci. Proc. 22: 94-98. 1948. 500 P383

- 4196 SPILLER, D. Truncated log-normal and root-normal frequency distributions of insect populations. Nature [London] 162: 530-531. Oct. 2, 1948. 472 N21
- 4197 TEALE, E. W. The strength of the frail. Nature Mag. 41: 401-404. Oct. 1948. 409.6 N214
- Hardiness of insects.
- 4198 TRESSENS, F. Les captures de l'année. Entomologiste 4: 83-85. Mar./Apr. 1948. 421 En814
- France.
- 4199 TULLGREN, A. The Entomological Society of Stockholm 1879-1948. Ent. Tidskr. 69: 119-121. 1948. 421 En891
- 4200 ZIMMERMAN, E. C. Insects of Hawaii: A manual of the insects of the Hawaiian Islands, including an enumeration of the species and notes on their origin, distribution, hosts, parasites, etc. v. 1-3. Honolulu, U. of Hawaii Press, 1948. 422.9 Z6
- v.1. Introduction. v.2. Apterygota to Thysanoptera, inclusive. v.3. Heteroptera.

## GENERAL - ECONOMIC

- 4201 ANDUZE, P. J., PIFANO C., F., and VOGEL-SANG, E. G. Nómima de los artrópodos vulnerantes conocidos actualmente en Venezuela. B. de Ent. Venezol. 6(Spec. No.): 1-16. Jan. 24, 1947. 421 B63
- Biting mites, ticks, lice, bugs, fleas, and flies.
- 4202 AVENS, A. W., CHAPMAN, P. J., and PEARCE, G. W. Determination of 4-6 dinitro-o-cresol on bark surfaces and some of its applications. J. Econ. Ent. 41: 432-435. June 1948. 421 J822
- 4203 BISHOPP, F. C. War on insects requires many weapons. Agr. Leaders' Digest 29(9): 22-24, 40-41. Sept. 1948. 275.28 Am3
- Various insecticides are discussed.
- 4204 BONNEMAISON, L. Les parasites animaux de la betterave. Inst. Tech. Franç. de la Betterave Indus. Cahier 4, 58 p. 1948. 66.9 In73
- 4205 BONNET, P. Plantes a roténone—leur utilisation comme insecticides. Marseille. Inst. Colon. Cahiers Colon., n. s., 1948: 233-239. Ref. June/July 1948. 286.8 M35
- 4206 BROMLEY, S. W. Some of the more important insect pests of pine. Sci. Tree Topics 1: 69-72. 1948. 99.8 Sci2
- 4207 BRYAN, E. H., JR. Insect control in Micronesia. Far East. Survey 17: 228-229. Oct. 6, 1948. 280.9 In782
- 4208 BUCKLEY, M. S. Mill sanitation and insect control. Northwest. Miller (Milling Prod. Sect) 235(11): 1a, 21a-22a, 24a, 26a-27a. Sept. 14, 1948. 298.8 N81
- 4209 BULGER, J. W. Control of orchid infesting insects by vault fumigation with methyl bromide. Amer. Orchid Soc. B. 17: 593-599. Oct. 1948. 80 Am329
- 4210 BUSH, R. Is grease-banding worth while? Amateur Gard. 65(3356): 14. Sept. 7, 1948. 80 Am13
- Banding small trees for insect pest control.
- 4211 BUSVINE, J. R. A simple field method for detecting DDT residual deposits. Roy. Soc. Trop. Med. & Hyg. Trans. 42(1): 6. July 1948. 448.9 R813
- 4212 BUTLER, E. The South's battle against insects & weeds. Agr. Chem. 3(10): 21-24, 63, 65. Oct. 1948. 381 Ag8
- 4213 CAMERON, A. E. Winter fumigation. Citrus News 24: 103. July 1948. 80 C494
- 4214 CANNERY, G. Procedure for the analysis of spray insecticides containing DDT, pyrethrum, and sesame oil. (In Italian.) Chim. e l'Indus. 30: 165-166. July 1948. 385 G43
- 4215 CASTANIE, H. Amélioration des vices du bois et protection contre les insectes destructeurs. Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc. 18: 239. July/Aug. 1948. 80 P9482
- 4216 CLANCY, D. W., and POLLARD, H. N. Effect of DDT on several apple pests and their natural enemies. J. Econ. Ent. 41: 507-508. June 1948. 421 J822
- Paratetranychus pilosus, Tetranychus spp., Argyrotaenia velutinana, Pseudococcus comstocki, and their parasites and predators.
- 4217 COLIN, F. Un nouvel insecticide "le Sulphos." J. de la France Agr. 4: 797. June 11/17, 1948. 14 J829
- Parathion.



- 4218 CORNU, C. Une culture provençale qui doit revivre le pyrèthre, insecticide français. *Vaucluse Agr.* 4(73/74): 13. (Cont.) Aug. 15/Sept. 1, 1948. 14 V26
- 4219 COSTA, A. S. Poderoso insecticida descubierto en el Brasil. *Hacienda* 43(6): 45. June 1948. 6 H11  
Also in *Bolsa de Com.*, Rosario. *Rev.* 36(877): 9-11. July 31, 1948. 287 R71  
R. B. 1018.
- 4220 DAVIS, J. E. Survey methods for controlling plant pests and diseases. *Oreg. Dept. Agr. B.* 159: 26-27. Sept. 1948. 2 Or3
- 4221 DEPUTY, O. D. Are foreign plant quarantines worth while? *J. Econ. Ent.* 41: 528-531. June 1948. 421 J822
- 4222 DESRUE. Traitements par pulvérisations: conceptions nouvelles et matériel nouveau. *Soc. des Agr. d'Algérie. B.* 91: 132-136. May 1948. 24 Sol
- 4223 DHENNEQUIN. Construction d'un pulvérisateur agricole. *Rustica* 21: 645. Sept. 12, 1948. 14 R92
- 4224 DUMONT, J. Les traitements liquides mouillants et adhésifs. *Blé et le Vin* 25(1109): 3-4. Aug. 22/29, 1948. 14 B61  
On fruit.
- 4225 EDEN, W. G., and ARANT, F. S. DDT residues on alfalfa. *J. Econ. Ent.* 41: 383-387. Ref. June 1948. 421 J822
- 4226 EGOROV, I. A., and LEONT'EV, F. M. Acaricidal properties of DDT, benzene hexachloride and K soap against ticks—vectors of *Haemosporidia* in horses. (In Russian.) *Veterinariia* 25(3): 35-37. Mar. 1948. 41.8 V6426
- 4227 FENG, H. T. Summary of the progress of pest & disease control in China. *China. Min. Agr. and Forestry. Misc. P.* 1: 75-78. Apr. 1948. 22.5 C4412M
- 4228 FENNAH, R. G. Scale insects in the British West Indies. *Agr. Soc. Trinidad and Tobago, Proc.* 47: 63-65, 67-72. Mar. 1947. 8 T73
- 4229 FRANSEN, J. J. Biological tests of derris preparations using fish as test animals. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 228-236. June 1948. 105.2 Or3  
English summary.
- 4230 FRINGS, H. Inorganic salts as repellents for package-penetrating insects. *J. Econ. Ent.* 41: 413-416. June 1948. 421 J822  
Ammonium chloride and ammonium nitrate. Tests with *Periplaneta americana*, *Tenebrio molitor*, and *Tenebroides mauritanicus*.
- 4231 FROMMANN, H. Absuchen oder spritzen? *Neue Mitt. f. die Landw.* 3: 195. July 5, 1948. 18 N39  
Potatoes.
- 4232 GAINES, J. C., and WIPPRECHT, R. Effect of dusting schedules on the yield of cotton during 1947. *J. Econ. Ent.* 41: 410-412. June 1948. 421 J822
- 4233 GILLIN, P. Un insecticide par excellence: le pyrèthre. *Colon. Franç. de Tunisie* 58(2060): 3. Aug. 14, 1948. 24 C712
- 4234 GINSBURG, J. M. A rapid method for preparing DDT in the laboratory. *Science* 108: 339-340. Sept. 24, 1948. 470 Sci2
- 4235 GRAHAM, C., and others. 1948 Maryland spray calendar for apples and peaches. *Md. Agr. Col. Ext. B.* 118, 13 p. Jan. 1948. 275.29 M36B  
T. L. Bissell, A. F. Vierheller, and W. F. Jeffers, joint authors.
- 4236 GUALDI, G. Prospects of production of nicotine insecticides. (In Italian.) *Tabacco* 52: 241-248. Aug. 1948. 69.8 T115
- 4237 HAINES, K. A., and DAVIS, L. G. Protection of workers applying nicotine alkaloid as a concentrated mist spray. *J. Econ. Ent.* 41: 513. June 1948. 421 J822
- 4238 HEUBERGER, J. W., STEARNS, L. A., and STEVENS, R. F. Home orchard insect and disease control. *Del. U. Agr. Ext. C.* 58, 10 p. Mar. 1948. 275.29 D37C
- 4239 HINCKS, W. D. Beneficial insects. I. Egg parasites. *North. Gard.* 2: 471-475. Aug. 1948. 80 N816
- 4240 HITCHCOCK, O. B. One-shot cattle lice control; Montana tests prove new insecticide effective. *Mont. Farmer-Stockman* 36(2): 45, 48, 49. Sept. 15, 1948. 6 M764  
Pyrenone.
- 4241 HOFFMANN, C. H., and MERKEL, E. P. Fluctuations in insect populations associated with aerial applications of DDT to forests. *J. Econ. Ent.* 41: 464-473. June 1948. 421 J822
- 4242 HOPKINS, J. A note on the deterioration of the toxic content of separated pyrethrum achenes compared with that of whole flowers. *East African Agr. J.* 14: 36-37. July 1948. 24 Ea74
- 4243 HOWE, R. W. Insects in warehouses. *Food [London]* 17: 301-302, 307. Ref. Oct. 1948. 389.8 F738  
First of two articles.
- 4244 HUGE, T. L. Is the macaroni plant controlling insects and rodents? *Macaroni J.* 30(6): 28, 40, 42-43. Oct. 1948. 298.8 N46
- 4245 HYMAN, J., & COMPANY. Direct control of cotton insects [with] chlordane. Hyman, Julius, & Co., Tech. Sup. 207, 4 p. Denver, 1948. 423.9 H99
- 4246 HYMAN, J., & COMPANY. Eradication of livestock parasites: ticks, lice, mange mites, fleas & flies with chlordane. Hyman, Julius, & Co., Tech. Sup. 203A, 4 p. Denver, 1948. 423.9 H99
- 4247 JANVRY, J. C. DE. La protection des cultures oléagineuses: traitements par avions et par hélicoptères. *Oléagineux* 3: 441-445. Oct. 1948. 77.8 OL2  
English summary, p. 498.
- 4248 JEPSON, W. F. An annotated list of insects associated with ground-nuts in East Africa. *B. Ent. Res.* 39: 231-236. Aug. 1948. 421 B87
- 4249 KANERVO, V. Investigations of efficacy of dusting preparations. (In Swedish.) *Nord. Jordbruksforsk.* 1948: 566-567. 11 N752
- 4250 KEISER, I. and HENDERSON, C. F. An apparatus to facilitate DDT extraction from soil samples. *U. S. Bur. Ent. and Plant Quar. ET-261*, 2 p. Aug. 1948. 1.9 En83Et
- 4251 KETELAAR, J. A. A. The analysis of hexaethyltetraphosphate (H.E.T.P.) and tetra-ethylpyrophosphate (T.E.R.P.) (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 11: 449-451. July 1948. 86 N384
- 4252 LANGEVIN, E. Soignez vos arbres fruitiers. Paris, Éditions de Montsouris, 1947. 132 p. (Collection Rustica) 423 L26  
Chiefly insect pests.
- 4253 LEMMON, A. B. New economic poisons present difficult in problems in labeling. *Agr. Chem.* 3(9): 41, 43, 45, 73-75. Sept. 1948. 381 Ag8
- 4254 LEWIS, H. C. Three year's use of DDT on citrus in central California. *Calif. Citrog.* 33: 546-547. Oct. 1948. 80 C125
- 4255 LINDGREN, D. L., BLISS, D. E., and BARNES, D. F. Insect infestation of dates. *Calif. Farmer, South. Ed.* 189: 186. Sept. 11, 1948. 6 C126A
- 4256 MARCHNER, G. Blüten- und knospenfressende obstaumschädlinge. *Gart.-Z. illus. Flora* 71: 121. Aug. 1948. 80 G1991
- 4257 MARTIN, J. T. Pest control in agriculture. *Soc. Chem. Indus. Rpts. Prog. Appl. Chem.* 32: 335-346. Ref. 1947. 382 M31R
- 4258 MEEUSE, A. D. J. Investigations on "biocides." (In Dutch.) *T.N.O.-Nieuws* 3: 239-241. Sept. 1948. 475 T11  
Insecticides, fungicides, etc.
- 4259 METCALF, R. L., CARLSON, R. B., and MURPHY, U. E. Development of new insecticides. *Calif. Citrog.* 33: 522, 538. Oct. 1948. 80 C125
- 4260 METCALF, R. L., and LINDGREN, D. L. Insecticidal properties of elemental fluorine. *J. Econ. Ent.* 41: 522. June 1948. 421 J822  
Tests with *Oncopeltus fasciatus*, *Blattella germanica*, *Drosophila melanogaster*, *Heliothrips haemorrhoidalis*, *Paratetranychus citri*, *Tribolium confusum*, *Aonidiella aurantii*, and *Carpophilus hemipterus*.
- 4261 METCALF, R. L. Some insecticidal properties of fluorine analogues of DDT. *J. Econ. Ent.* 41: 416-421. Ref. June 1948. 421 J822  
Tests with *Drosophila melanogaster*, *Heliothrips haemorrhoidalis*, *Aonidiella aurantii*, *Blattella germanica*, *Oncopeltus fasciatus*, *Listoderes obliquus*, *Apantesis proxima*, *Phryganidia californica*, *Tribolium confusum*, *Cantharis consors*, *Phaenicia sericata*, *Apis mellifera*, *Pogonomyrmex barbatus*, and *Paratetranychus citri*.  
Comparison of toxic action of DDT and DFDT (2,2-bis-(p-fluorophenyl)-1,1,1-trichloroethane).
- 4262 MICKLE, G. T. Insect pests of stored grain. *Colo. Agr. Col. Ext. C.* 151-A, 2 p. May 1948. 275.29 C71C
- 4263 MONCRIEFF, R. W. The trichloro group in DDT; probable basis of insecticidal potency. *Chem. Age* 59: 312-313. Sept. 4, 1948. 382 C427



- 4264 MORETTI, G. 666, the new insecticide, hexachlorocyclohexane. (In Italian.) *Humus* 3(9): 7-9. Sept. 1947. 16 H88
- 4265 MORRISON, H. E., and others. The effects of certain new soil insecticides on plants. *J. Econ. Ent.* 41: 374-378. Ref. June 1948. 421 J822
- H. H. Crowell, S. E. Crumb, Jr., and R. W. Lauderdale, joint authors.  
Dichlorodiphenyldichloroethane, hydroxypentamethylflavan, DDT, benzene hexachloride, chlordane, toxaphene, and propylene dichloride.
- 4266 MOTE, D. C. The insects are not yet licked. *Oreg. Dept. Agr. B.* 159: 5-8. Sept. 1948. 2 Or3
- 4267 NANGPAL, H. D. Insect pests of cotton in India. Redrafted and rearranged by K. A. Rahman and M. Afzal. Bangalore City, 1948. 81 p. 423 N152
- 4268 NELSON, R. C. Pulverizaciones insecticidas. *Cons. Práct.* 13(152), 4 p. Aug. 1948. 80 C762
- 4269 NEWTON, H. C. F. Winter washing fruit trees. *Worcestershire Agr. Chron.* 16: 309, 311, 313, 315, 317. Aug. 1948. 10 W892
- 4270 ORR, R. T. Insect control in bakery plants. *Bakers Weekly* 140(4): 61. Oct. 25, 1948. 389.8 B172
- 4271 ORTON, C. R. The problem of quarantining plant viruses. *J. Econ. Ent.* 41: 477-486. Ref. June 1948. 421 J822
- 4272 OSTASHEVSKIĬ, A. G. Testing the parasitidal and toxic properties of a 5 percent DDT and talc mixture in ectoparasitic diseases of animals. (In Russian.) *Veterinariia* 25(3): 32-34. Mar. 1948. 41.8 V6426
- 4273 PALMGÅRD, E. Better fruit crops - through spraying. (In Swedish.) *Kalmar Läns Norra Hushållningssällsk. Kvrtilsskr.* 8(1): 21-24. 1948. 11 K12
- 4274 PEREIRA, C. Tick-dips and insecticides for cattle. (In Portuguese.) *Biologico* 14: 139-143. June 1948. 442.8 B529
- 4275 PERRET, J. L'essence comme fumigant de remplacement pour les grains. *Terre Maroc.* 17: 346-347. Sept. 1947. 24 T44
- 4276 PETTY, B. K. Further laboratory studies with new organic insecticides. *Farming So. Africa* 23: 391-397. June 1948. 24 So842
- 4277 PLANES GARCIA, S. Dos causas fundamentales de la ineficacia de algunos tratamientos insecticidas. *Agr. Levantino* 14(164): 6. July 1948. 15 Ag85
- 4278 PORTER, B. A. Insect control. *East. Fruit Grower* 11(7): 5-6, 20, 22. Sept. 1948. 80 Ea73
- 4279 RASMUSSEN, E. J. Materials and methods of application for pest control on apples. *Quebec. Pomol. and Fruit Growing Soc. Ann. Rpt.* 1947: 15-27. 82 Q3
- 4280 RECKENDORFER, P. Über die normierung von suspensions-kolloiden. *Pflanzenschutzberichte* 3: 101-112. Ref. July 1948. 464.9 P48
- English summary.  
Tests of 27 sprays.
- 4281 REWELL, R. E. Diseases of tropical origin in captive wild animals. *Roy. Soc. Trop. Med. & Hyg. Trans.* 42(1): 17-36. Ref. July 1948. 448.9 R813
- Arthropod parasites, p. 24-25. Discussion, p. 26-36.
- 4282 REYES, R. V. Artrópodos de interés médico-veterinario comprobados en Colombia. *Rev. de Med. Vet. y Zootec.* 17: 66-80. Ref. Mar./July 1948. 41.8 R3214
- 4283 RIEMSCHEIDER, R. Kontakt-insektizide auf basis fluorierter halogenkohlenwasserstoffe. *Z. f. Naturf.* 2b: 245-246. May/June 1947. 474 Z3
- 2,2-bis(fluorophenyl)-1,1,1-trichloroethane, etc.
- 4284 ROBINSON, R. H. Harvest analyses of DDT residues. *Food Packer* 29(11): 50, 52-53. Oct. 1948. 286.83 C165
- 4285 ROE, J. Are the super bug-killers too good? *Successful Farming* 46(10): 29, 94, 96. Oct. 1948. 6 Su12
- Injurious effects of DDT on humans, animals and plants.
- 4286 ROGERS, E. F., and others. Plant insecticides. I. Ryanodine, a new alkaloid from *Ryania speciosa* Vahl. *Amer. Chem. Soc. J.* 70: 3086-3088. Sept. 1948. 381 Am33J
- F. R. Koniuszy, J. Shavel, Jr., and K. Folkers, joint authors.
- 4287 ROUSSEL, L. A propos du thiophos 3422. *Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc.* 18: 269-270. Sept. 1948. 80 F9482
- 4288 SAHA, J. C. Plant quarantine. *Sci. & Cult.* 14: 48-53. Aug. 1948. 475 Sci24
- 4289 SAUER, H. F. G. Considerations on the biological control of plant pests. (In Portuguese.) *Biologico* 14: 127-133. June 1948. 442.8 B529
- 4290 SAZONOV, P. V. Novye preparaty DDT i GKHTSG dlia bor'by s vreditel'ami ovoshchnykh kul'tur [New preparations, DDT and benzene hexachloride to control pests of vegetable crops]. Leningrad? Leningradskoe Gazetno-zhurnal'noe i Knizhnoe Izd-vo, 1948. 53 p. (Nauka v Pomoshch' Sel'skomu Khoz'iaistvu) 423 Sa9
- 4291 SCHMIDT, W. Schädlingbekämpfung mit cyanogas in gewächshäusern. *Gart.-Z. Illus. Flora* 71: 115-117. Aug. 1948. 80 G1991
- 4292 SCHULTZE RHONHOF, A. The blackbird, *Sylvia atricapilla*, a protector of fruit trees. (In Portuguese.) *Frutas da Madeira* 8: 121. June 1948. 286.83 F9422
- Insect control.
- 4293 SEARLS, E. M. Control of rodents and insects in dairy plants. *Canad. Dairy & Ice Cream J.* 27(10): 72, 74. Oct. 1948. 44.8 C162
- 4294 SEARLS, E. M. Goodbye, insects. *Natl. Butter & Cheese J.* 39(10): 46, 86, 88, 90. Oct. 1948. 286.85 B98Bu
- 4295 SEARLS, E. M. Insect prevention in dairy plants possible with residual insecticides. *Cheese Rptr.* 73(8): 3, 23. Oct. 15, 1948. 44.8 Sh3
- 4296 SEEBORG, E. F. Insect fragment determinations in various wheat blends. *Assoc. Oper. Millers. B.* 1948: 1698-1699. Sept. 1948. 298.9 As7
- 4297 SEN, A. B., and BHARGAVA, P. M. Search for insecticides. I. *Indian Chem. Soc. J.* 25: 277-281. June 1948. 385 In27
- 4298 SERGENT, E., and SERGENT, E. Toxicité du D. D. T. pour les souris et les rats. *Paris. Acad. des Sci. Compt. Rend.* 227: 416-419. Aug. 18, 1948. 505 P21
- 4299 SIAENS, F. Late fall spraying of apples and pears. (In Flemish.) *Cult. en Handel* 14: 494-495. Aug. 1948. 80 C892
- 4300 SLAWIK, O. Nützliche insekten und andere nützliche tiere im siedlergarten. *Siedler* 3(9): 4-5. Sept. 1948. 19 Si1
- 4301 SROKA, K. H. Kräuter gegen ungeziefer. *Süddeut. Schäfereiztg.* 37: 167. Nov. 8, 1947. 45.8 Su2
- 4302 STEAD, F. M. Vector control planning in California. *Ofic. Sanit. Panamer. B.* 27: 724-729. Aug. 1948. 449.9 P192B
- Spanish summary.
- 4303 SWEETMAN, H. L., CLARK, E. L., and BOURNE, A. I. Smoke dispensers for insecticides. *Soap & Sanit. Chem.* 24: 141, 143. Oct. 1948. 307.8 So12
- 4304 SYMES, C. B. Commonwealth air-route sanitation. *Roy. Sanit. Inst. J.* 68: 539-544. Sept. 1948. 449.9 R812
- Control of insects carried by aircraft.
- 4305 SYMES, C. B. Synthetic insecticides in colonial development. *Roy. Soc. Arts. J.* 96: 641-654. Sept. 10, 1948. 501 L847J
- Discussion, p. 654-656.
- 4306 TAYLOR, C. L. For effective control use DDT against bean insects. *Mich. Bean B.* 2(3): 16. Sept. 1948. 80 M587
- 4307 TELFORD, H. S. Misuse of DDT threatens alfalfa seed pollinators. *Idaho Farmer* 66: 750. Oct. 21, 1948. 6 G282
- 4308 THOMSEN, E. G. Sprayers up to date. I-II. *Soap & Sanit. Chem* 24(9): 122-124, 151; (10): 145, 147, 149, 151, 153, 155. Sept., Oct. 1948. 307.8 So12
- 4309 TIRELLI, M. Old and new methods for disinfection of grains in the granary. (In Italian.) *Terra e Sole* 69/70: 677-679. Sept. 1948. 16 T273
- 4310 TISCHLER, W. Über die bedeutung der schädlingfauna in den wallhecken Schleswig-Holsteins. *Beitr. z. Agrarwiss.* 2: 50-55. Ref. 1948. 18 B392
- 4311 TRAPIDO, H. The development of a sprayer for use with water suspensions of DDT in rural areas of Latin America. *Amer. J. Trop. Med.* 28: 721-739. Sept. 1948. 448.8 Am33
- 4312 TRUJILLO PELUFFO, A. Insectos enemigos de la agricultura. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 237: 5. (Cont.) Sept. 23, 1948. 9.9 G15B
- 4313 TUNBLAD, B. This year's insecticide-testing in Sweden. (In Swedish.) *Sweden. Statens Växtskyddsanst. Växtskyddsnotiser* 1947: 73-77. Nov. 1947. 464.9 Sw3V
- 4314 VALENTIN, R. Le poudrage des cultures par avion. *Potasse* 22: 148-150. Sept. 1948. 57.8 P84



- 4315 VANDERWAEREN, R. Control of flower pests. (In Flemish.) *Tuinbouwberichten* 12: 128-129. Aug. 15, 1948. 80 T817
- 4316 VARGAS, L. DDT: información general. *Ofic. Sanit. Panamer. B.* 27: 531-542. June 1948. 449.9 P192B
- 4317 VAUGHAN, R. E., and FISHER, E. H. For better potatoes, control diseases & insects. *Wis. Agr. Col. Ext. C.* 379, 16 p. May 1948. 275.29 W75C
- 4318 VECHT, J. VAN DER. Outline on studies made abroad on agricultural entomology. (In Dutch.) *Landbouw* 19: 446-470. Aug./Sept. 1947. 22.5 L23 English summary.
- 4319 VIRGINIA. AGRICULTURAL AND MECHANICAL COLLEGE AND POLYTECHNIC INSTITUTE. HORTICULTURE DEPT. Information for Virginia fruit growers, 1947. 275.29 V81B  
Departments of Plant Pathology and Entomology cooperating.  
Disease and insect control.
- 4320 WHITCOMB, W. D. Strawberry and raspberry insect pests. *Mass. Fruit Growers' Assoc. Rpt.* 54: 115-116. 1948. 81 M384
- 4321 WILKINSON, P. R. Tests of insecticides on cattle. *East African Agr. J.* 14: 12-17. July 1948. 24 Ea74
- 4322 WILLE, J. E. La lucha contra las plagas de la agricultura nacional. *Agronomia [Lima]* 13(53): 65-68. 1948. 9.8 Ag83
- 4323 WILLIAMS, A. E. Sterilisation by liquid aerosols; distinctive advantages over wet sprays. *Chem. Age* 58: 875-876. Ref. June 26, 1948. 382 C427  
Similar title in *Brewers' J.* 84: 413-416. Sept. 15, 1948 390.8 B753
- 4324 WILLIAMS, D. W. Insect pests in stored food. *Scot. Agr.* 28: 109-112. Autumn 1948. 10 Sco82So
- 4325 WINTERS, S. R. DDT for Midwest grain bins. *Hoard's Dairyman* 93: 693. Sept. 25, 1948. 44.8 H65
- ### APICULTURE AND APIS MELLIFERA
- 4326 ALDOUS, A. M. Honey for the show bench. *Guild Gard.* 23(9): 9. Sept. 1948. 80 G94
- 4327 AMOS, J. M. Bee behavior. *West. Canada Beekeeper* 11(9): 12-14. Sept. 1948. 424.8 W525
- 4328 AUCLAIR, J. L., and JAMIESON, C. A. A qualitative analysis of amino acids in pollen collected by bees. *Science* 108: 357-358. Oct. 1, 1948. 470 Sci2
- 4329 BERNARD, S. Ruches & ruchettes. *Belg. Apic.* 12: 132-133. July 1948. 424.8 B41
- 4330 BOTSFORD, H. Honey hunting. *Amer. For-ests* 54: 450-451. Oct. 1948. 99.8 F762
- 4331 BOXALL, W. P. Commencing beekeeping. *So. African Bee J.* 23(3): 9-10. (Concl.) Aug. 1948. 424.8 So82
- 4332 BROMLEY, S. W. Honey-bee predators. *N. Y. Ent. Soc. J.* 56: 195-199. Sept. 1948. 420 N48J
- 4333 BUTANI, D. K. Thieves of the apiary. *Indian Bee J.* 10: 35-37. May/June 1948. 424.8 In2  
*Galleria mellonella*, *Achroia grisella*, *Braula coeca*, termites, ants, wasps.
- 4334 ECKERT, J. E. Toxicity of some of the newer chemicals to the honeybee [*Apis mellifera*]. *J. Econ. Ent.* 41: 487-491. June 1948. 421 J822  
Tests with hexaethyl tetraphosphate, tetraethyl pyrophosphate, dichlorodiphenyldichloroethane, chlordane, and parathion.
- 4335 ECKERT, J. E. The use of sodium sulfathiazole in the treatment of American foulbrood disease of honeybees. *J. Econ. Ent.* 41: 491-494. June 1948. 421 J822
- 4336 FYG, W. Über die künstliche begattung der bienenkönigin. *Schweiz. Bienen Ztg.* 71: 297-303. July 1948. 424.8 Sch9
- 4337 GARDNER, L. C. Want to stay in business? *Beekeepers' Mag.* 11(9): 9. Sept. 1948. 424.8 M58
- 4338 GIESHAMMER, H. Pflege der bienenvölker. *Salzburg. Bauer* 3(32): 4-5. Aug. 5, 1948. 19 Sa3
- 4339 GRIMMOND, D. Recent bee adventures. *Scot. Beekeeper* 24: 145-146. Aug. 1948. 424.8 Sco8  
Habits and behavior.
- 4340 CYGLI, K. Zur bekämpfung der bienenkrankheiten. *Schweiz. Bienen Ztg.* 71: 347-351. Aug. 1948. 424.8 Sch9
- 4341 HARRISON, C. M. Do bees help in legume seed production? *Hoard's Dairyman* 93: 687. Sept. 25, 1948. 44.8 H65
- 4342 HEATON, D. On taking bees to the heather. *Good Bee-Keeping* 8: 106-108. Aug. 1948. Ent. Sub-Br. Libr.
- 4343 HERMAN, E. P. Medicine from bees. *Bee World* 29: 74-75. Oct. 1948. 424.8 B399
- 4344 HUNKELER, M. Lokalsassen. *Schweiz. Bienen Ztg.* 71: 343-347. Aug. 1948. 424.8 Sch9
- 4345 KARLSSON, K. Miscellaneous. (In Swedish.) *Bitidningen* 47: 284-285. Sept. 1948. 424.8 B54  
Size of hive entrance.
- 4346 KILLION, C. E. Bee diseases cause loss. *Ill. Dept. Agr. Ann. Rpt.* 30: 114-120. 1947. 2 IL6R
- 4347 KNOWLTON, G. F. Bees and alfalfa seed production. *Utah. State Agr. Col. M. S.* 770, 1 p. Sept. 24, 1948. 275.29 UtlMs  
Bees as pollinators.
- 4348 LOUVRIER, R. Si on employait la méthode analytique en apiculture. *Gaz. Apic.* 49: 135-136. June 1948. 424.8 G25
- 4349 LOYN, G. M. Preparation of sections, combs and wax for exhibition. *Welsh Bee J.* 3: 77-79. July 1948. 424.8 W462
- 4350 LUER, MRS. H. Crazy hat. *Amer. Bee J.* 88: 494. Oct. 1948. 424.8 Am3  
Bonnet containing bees wins contest in Tom Breneman "Breakfast in Hollywood" show.
- 4351 LUND, H. J. A man and his bees; a bee-keeper's chronicle. London, Sidgwick & Jackson, 1947. 156 p. 424 L973
- 4352 MARÉCHAL, G. À propos d'une participation à une foire commerciale. I-II. *Belg. Apic.* 12: 118-119, 165-166. June, Aug./Sept. 1948. 424.8 B41
- 4353 MATHIS, M. Sur quelques modifications de la ruche en "livre" de François Huber pour le transport des abeilles à longue distance. *Soc. de Biol. Compt. Rend.* 142: 828-829. June 1948. 442.9 P21
- 4354 MEHTA, V. K. An aspect of bee behaviour in the plains of the United Provinces. *Indian Bee J.* 10: 37. May/June 1948. 424.8 In2
- 4355 MEYER, E. DE. Le faux-bourdon exerce-t-il autant d'influence sur la descendance que la reine? *Belg. Apic.* 12: 110-111. June 1948. 424.8 B41
- 4356 MILUM, V. G. Beekeeping education in North America. *Amer. Bee J.* 88: 500-501. Oct. 1948. 424.8 Am3
- 4357 MILUM, V. G. The grooming dance of the honeybees. *Beekeepers' Mag.* 11(9): 22-24. Sept. 1948. 424.8 M58
- 4358 MINDERHOUD, A. Guiding bees to culture plants. (In Dutch.) *Tuinbouw* 3: 177-179. July 1948. 80 T815
- 4359 MISENER, H. A. Concrete hive stands. *Amer. Bee J.* 88: 492. Oct. 1948. 424.8 Am3
- 4360 MOMMERS, J. Significance of the new spray and dusting preparations to apiculture. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 11: 464-466. July 1948. 86 N384
- 4361 MORGENTHAUER, O. Notizen aus der bienenabteilung Liebefeld. 4. Die bekämpfung der faulbrut mit sulfanilamid-präparaten ("cibazol" und verwandte stoffe). *Schweiz. Bienen Ztg.* 71: 293-297. (Concl.) July 1948. 424.8 Sch9
- 4362 MULLICK, N. P. Feeding bees. *Indian Bee J.* 10: 38-39. May/June 1948. 424.8 In2
- 4363 NOLF, J. Alerte! Un fléau menace nos butineuses. *Belg. Apic.* 12: 156. Aug./Sept. 1948. 424.8 B41  
Danger of DDT to foraging bees.
- 4364 NORGES BIRØKTERLAG. Annual report 1947-48 of Norway's Beekeeper Society. (In Norwegian.) *Birøkteren* 64: 97-106. July 1948. Ent. Sub-Br. Libr.
- 4365 ORDET, G. S. Importancia de la flora apícola en la producción de miel. *Cuba. Min. de Agr. Rev.* (ser. 6) 31(1): 82-84. Jan./June 1948. 8 Ag88Re
- 4366 PAVORD, A. V. Health and strength at the moors. *Good Bee-Keeping* 8: 108-109. Aug. 1948. Ent. Sub-Br. Libr.
- 4367 PAVORD, A. V. Watch for acarine. *Good Bee-Keeping* 8: 112-113. Aug. 1948. Ent. Sub-Br. Libr.  
Acarapis woodi.
- 4368 PEDERSEN, A. Red clover pollination and set. (In Danish.) *Nord. Jordbrugsforsk.* 1948: 528-538. 11 N752  
Discussion, p. 538-540.



- 4369 PINOTEAU, R. Documentation inédite sur l'apiculture en U. R. S. S. Gaz. Apic. 49: 138. June 1948. 424.8 G25
- 4370 RIBBANDS, C. R. The foraging behaviour of honey bees. *Gt. Brit. Min. Agr. Agriculture* 55: 252-255. Sept. 1948. 10 G79J
- 4371 ROUSSEAU, M. La sélection et l'insémination artificielle en apiculture. *Belg. Apic.* 12: 114, 133-135. June-July, 1948. 424.8 B41
- 4372 ROUSSY, L. Observations sur un cas d'intoxication des abeilles butineuses dû à l'absorption de la farine de soya non déshuilée. *Gaz. Apic.* 49: 132. June 1948. 424.8 G25
- 4373 SPIELMANN, O. Die frühjahrsernte 1948. *Schweiz. Bienen Ztg.* 71: 282-284. July 1948. 424.8 Sch9
- 4374 THOMPSON, N. G. Hernias and backaches avoided. *Gleanings Bee Cult.* 76: 626-627. Oct. 1948. 424.8 G47
- Labor saving equipment.
- 4375 VAUDOU, G. La lutte contre la loque en Dordogne. *Gaz. Apic.* 49: 134. June 1948. 424.8 G25
- 4376 VOMSATTEL, M. Der beste kasten. *Schweiz. Bienen Ztg.* 71: 342-343. Aug. 1948. 424.8 Sch9
- 4377 VOMSATTEL, M. Zur frage der langlebigkeit der arbeitsbiene. *Schweiz. Bienen Ztg.* 71: 288-290. July 1948. 424.8 Sch9
- 4378 WALKER, C. R. Why organize? *Amer. Bee J.* 88: 501-502. Oct. 1948. 424.8 Am3
- 4379 WATT, J. M. The bee in medicine. *So. African Bee J.* 23(3): 7-8. (Concl.) Aug. 1948. 424.8 So82
- Allergy to bees; poisonous honey; bee venom therapy.
- 4380 WEERDT, E. DE. Mating stations. (In Flemish.) *Cult. en Handel* 14: 444-445. July 1948. 80 C892
- 4381 WRIGHT, P. H. The hive entrance or entrances. *West. Canada Beekeeper* 11(9): 11. Sept. 1948. 424.8 W525
- Colony Management
- 4382 BERNETT, A. W. We need favorable weather. *Beekeepers' Mag.* 11(9): 15-16. Sept. 1948. 424.8 M58
- 4383 BOURDON. La récolte des ruches vulgaires. *Monit. Agr.* 1(30): 4. Aug. 8, 1948. 14 M744
- 4384 BRAUN, E. To winter or not to winter. *Gleanings Bee Cult.* 76: 614-618. Oct. 1948. 424.8 G47
- 4385 CALE, G. H. What does it cost to winter? *Amer. Bee J.* 88: 491. Oct. 1948. 424.8 Am3
- 4386 DELVAL, G. A. Pouvons-nous et devons-nous supprimer l'essaimage? *Belg. Apic.* 12: 138-139. July 1948. 424.8 B41
- 4387 DIEHNELT, W. Wintering bees. *Amer. Bee J.* 88: 502-503. Oct. 1948. 424.8 Am3
- 4388 EDWARDS, E. E. Moving bees. *Welsh Bee J.* 3: 74-77. July 1948. 424.8 W462
- 4389 GEIGER, J. E. Drone bees and their influence on honey production. *West. Canada Beekeeper* 11(9): 8. Sept. 1948. 424.8 W525
- 4390 GILLIN, P. Comment organiser un rucher: création et conduite d'un rucher. *Colon. Franç. de Tunisie* 58(2064): 2. Sept. 11, 1948. 24 C712
- 4391 HEBDEN, A. The introduction of queen bees. *Good Bee-Keeping* 8: 102-104. Aug. 1948. Ent. Sub-Br. Libr.
- 4392 HERNÁNDEZ, E. Fortalecimiento de la colmena. *Rev. del Café* 4(3): 18-19. Aug. 1948. 9 R3295
- 4393 HOFMANN, C. S. Contrôle de l'essaimage dans les grandes ruches. *Gaz. Apic.* 49: 146-148. June 1948. 424.8 G25
- 4394 HOOPER, M. M. A challenge to thoughtful beekeepers. *Beekeeping* 14: 171-172. (To be cont.) Aug. 1948. 424.8 B3991
- Swarming problems.
- 4395 LIETAR, R. Les translations. *Belg. Apic.* 12: 107-110. (Concl.) June 1948. 424.8 B41
- 4396 MATHIS, M. Sur l'âge des butineuses et leur peu de valeur par rapport aux abeilles d'un essaim naturel. *Gaz. Apic.* 49: 133-134. June 1948. 424.8 G25
- 4397 MILES, C. B. Winter warmth is in cellar wintering. *Beekeepers' Mag.* 11(9): 10-14. Sept. 1948. 424.8 M58
- 4398 MORISON, G. The importation of queen bees. *Scot. Beekeeper* 24: 139-141. Aug. 1948. 424.8 Sco8
- Notes on lecture.

- 4399 RAFALES FERRER, S. Abejas y colmenas. *Cult. Mod.* 31: 301-302. Aug. 1948. 15 C89
- 4400 REYNOLDS, R. F. In search of knowledge. Subject: The drone. *Good Bee-Keeping* 8: 110-111. (Concl.) Aug. 1948. Ent. Sub-Br. Libr.
- 4401 SCOTT, I. Wintering bees outdoors in Maine. *Gleanings Bee Cult.* 76: 628. Oct. 1948. 424.8 G47
- 4402 TUZI, C. Bees and honey. (In Italian.) *Terra e Sole* 69/70: 697. (Cont.) Sept. 1948. 16 T273
- Colony management.
- 4403 WEBB, MRS. E. R. Early summer transferring. *Mod. Beekeeping* 32: 663-665. Aug. 15, 1948. 424.8 B397
- 4404 WIRTH, E. D. Are your bees ready for winter? *Rural New-Yorker* 98: 595, 599. Oct. 2, 1948. 6 R88
- See also Honey and Beeswax in Agricultural Products Section.

## ARACHNIDA, MYRIAPODA, ETC.

- 4405 ADLER, S., and FELDMAN-MUEHSAM, B. A note on the genus *Hyalomma* Koch in Palestine. *Parasitology* 39(1/2): 95-101. Ref. July 1948. 448.8 P21
- 4406 ARTHUR, D. R. On the egg of the tick, *Ixodes ricinus* L. *Parasitology* 39(1/2): 53-60. Ref. July 1948. 448.8 P21
- 4407 BALL, W. Serological indications of the systematic relationship of the Linguatulida. *Amer. J. Pharm.* 120: 256-266. Ref. July 1948. 396.8 Am3
- 4408 BARONI, O., and EGLI, R. Controlling the cattle tick [*Boophilus annulatus microplus*] with DDT. (In Portuguese.) *Biologico* 14: 109-112. May 1948. 442.8 B529
- 4409 BOYD, E. M., and LARSEN, B. J. Incidence of feathermites on some Massachusetts birds and the effects of cold on them and their eggs (Acarina, Analgesidae and related families). (Abs.) *Anat. Rec.* 101: 746-747. Aug. 1948. 447.8 An1
- 4410 BRISTOWE, W. S. Spiders from the Arctic island of Jan Mayen. *London. Zool. Soc. Proc.* 118: 223-225. May 1948. 410.9 L84P
- 4411 BROMLEY, S. W. Mosquito spraying with DDT and the two-spotted mite [*Tetranychus bimaculatus*]. *J. Econ. Ent.* 41: 508. June 1948. 421 J822
- Mite population increased.
- 4412 BUSTAMANTE, M. E., VARELA, G., and ROCH, E. Estudio de una nueva fiebre petequial aislada en Michoacán (República Mexicana) del *Rhipicephalus sanguineus*. *Mex. Inst. de Salubridad y Enferm. Trop.* Rev. 8: 163-174. Sept. 1947. 449.9 M572
- English summary.
- A distinct rickettsial disease produced in guinea pigs, called by the authors Michoacán fever.
- 4413 CAMIN, J. H. Mite [*Ophionyssus serpentineum*] transmission of a hemorrhagic septicemia in snakes. *J. Parasitol.* 34: 345-354. Ref. Aug. 1948. 448.8 J824
- 4414 CANNON, A. B., and MCRAE, M. E. Treatment of scabies; report of one hundred patients treated with hexachlorocyclohexane in a vanishing cream base. *Amer. Med. Assoc. J.* 138: 557-560. Oct. 23, 1948. 448.9 Am37
- 4415 CARBALLO POU, M. La lucha contra la garrapata; el empleo del hexacloruro de benceno. *Hereford* 15: 370-371. Aug. 1948. 43.8 H42
- 4416 CHICKERING, A. M. The genus *Tmarus* (Thomisidae) in Panama. (Abs.) *Anat. Rec.* 101: 726-727. Aug. 1948. 447.8 An1
- 4417 CLOUDSLEY-THOMPSON, J. L. Notes on Arachnida. 6. Spider records from Britain and Iceland. *Ent. Monthly Mag.* 84: 240. Oct. 1948. 421 En86
- 4418 COBBETT, N. G., PETERMAN, J. E., and BEAGLE, A. G. Eradication of sarcoptic mange of hogs by a single treatment of benzene hexachloride sprays. *Vet. Med.* 43: 407-409. Oct. 1948. 41.8 M69
- Due to *Sarcoptes scabiei* suis.
- 4419 COCKINGS, K. L. Successful methods of trapping *Trombicula* (Acarina) with notes on rearing *T. deliensis*, Walch. *B. Ent. Res.* 39: 281-296. Aug. 1948. 421 B87
- 4420 DELAMARE DEBOUTTEVILLE, C. Notes faunistiques sur les Myriapodes de Bretagne. *Entomologiste* 4: 66-67. Mar./Apr. 1948. 421 En814
- 4421 DIAS, J. A. T. S. Quelques cas curieux d'anomalies, observés chez des Ixodidés des genres *Rhipicephalus* et *Aponomma*. *Ann. de Parasitol. Humaine et Compar.* 23: 27-30. 1948. 436.8 An7



- 4422 EXLINE, H. Comparative morphology of the female genitalia of Dictyna, and its taxonomic significance. (Abs.) Anat. Rec. 101: 727. Aug. 1948. 447.8 An1
- 4423 FELDMAN-MUEHSAM, B. On larvae and nymphs of some species of Palestinian Hyalomma. Parasitology 39(1/2): 138-147. Ref. July 1948. 448.8 P21
- 4424 FONSECA, F. DE. A monograph of the genera and species of Macronyssidae Oudemans, 1936 (synom.: Liponissidae Vitzthum, 1931) (Acari). London. Zool. Soc. Proc. 118: 249-334. Aug. 1948. 410.9 L84P  
Includes n. spp. in: Radfordiella n. g.; Kolenationyssus n. g.; Ichoronyssus, 2. Also the n. genera Hirstesia; Hirstionyssus.
- 4425 FORSTER, R. R. A new genus and species of the family Acropsopilionidae (Opiliones) from New Zealand. Roy. Soc. New Zeal. Trans. & Proc. 77: 139-141. Apr. 1948. 514 W46  
Zeopsopilio neozelandiae.
- 4426 FOX, I. New uropodid mites associated with rats in Puerto Rico. Ent. News 59: 169-174. July 1948. 421 En88  
New spp. in Fuscuropoda, 2; Uroobovella; Leiodychnus, 2.
- 4427 GAUD, J., and PETITOT, M. L. Sarcoptides plumicoles des oiseaux du Maroc. Ann. de Parasitol. Humaine et Compar. 23: 35-46. 1948. 436.8 An7
- 4428 GLASGOW, R. D., and COLLINS, D. L. Ecological, economic and mechanical considerations relating to the control of ticks [Dermacentor variabilis] and Rocky Mountain spotted fever on Long Island. J. Econ. Ent. 41: 427-431. Ref. June 1948. 421 J822
- 4429 GOODNIGHT, C. J., and GOODNIGHT, M. L. A new member of the genus Caddo [C. chomulae] (Phalangida). N. Y. Ent. Soc. J. 56: 201-202. Sept. 1948. 420 N48J
- 4430 GUILHON, J. Toxicité de l'hexachlorocyclohexane pour les acariens psoriques [Psoroptes cuniculi]. Soc. de Biol. Compt. Rend. 142: 433-435. Apr. 1948. 442.9 P21
- 4431 HACKMAN, W. Some spiders from Hangö point. (In Swedish.) Soc. pro Fauna et Flora Fenn. Memo. (1946/47) 23: 142-143. 511 H365Me  
Lycosa atrata, Arctosa leopardus, and Trochosa ruricola.
- 4432 HICKMAN, V. V. Tasmanian Araneae of the family Hahnidae with notes on their respiratory systems. Roy. Soc. Tasmania, Papers and Proc. 1947: 21-35. 514 H65  
Includes n. spp. in: Hahnia, 2; Neoaviola.
- 4433 HILL, H. R. Annotated bibliography of the Linguatulida. South. Calif. Acad. Sci. B. 47: 56-73. May/Aug. 1948. 500 S08
- 4434 HOFFMAN, J. R. Hexaethyl tetraphosphate and tetraethyl pyrophosphate as aerosols against the two-spotted spider mite [Tetranychus bimaculatus]. J. Econ. Ent. 41: 356-362. June 1948. 421 J822  
Also tested with Macrosiphum solanifolii.
- 4435 HOMANN, H. Die nebenaugen der spinnen (Araneae). Z. f. Naturf. 2b: 161-167. Mar./Apr. 1947. 474 Z3
- 4436 HOWITT, B. F., and others. Virus of eastern equine encephalomyelitis isolated from chicken mites (Dermanyssus gallinae) and chicken lice (Eomenacanthus stramineus). Soc. Expt. Biol. & Med. Proc. 68: 622-625. Ref. July/Aug. 1948. 442.9 S01  
H. R. Dodge, L. K. Bishop, and R. H. Gorrie joint authors.
- 4437 JAMESON, E. W., JR. Myobiid mites (Acarina: Myobiinae) from shrews (Mammalia: Soricidae) of eastern North America. J. Parasitol. 34: 336-342. Aug. 1948. 448.8 J824  
Includes Protomyobia brevisetosa and Amorphacarus hengererorum n. spp.
- 4438 JAŠKOWSKI, L. Experiments on the therapy of mange in sheep by applying sulphur dioxide. (In Polish.) Med. Wet. 4: 363-365; 432-433. June-July 1948. 41.8 M463
- 4439 LACKMAN, D., and PARKER, R. R. Comparison of the immunogenic and anaphylactogenic properties of Ricky Mountain spotted fever vaccines prepared from infected yolk sacs and from infected tick [Dermacentor andersoni] tissue. Amer. J. Pub. Health 38: 1402-1404. Oct. 1948. 449.9 Am3J
- 4440 LAWRENCE, R. F. Some new pilicolous mites from South African mammals. Parasitology 39(1/2): 39-42. July 1948. 448.8 P21  
Cheletiella lemuricola, C. curvidens, and Leeuwenhoekia womersleyi n. spp.
- 4441 LAWS, S. G. A biological test for assessing the acaricidal properties of DDT and "gammexane" preparations. B. Ent. Res. 39: 277-279. Aug. 1948. 421 B87  
Rhipicephalus appendiculatus, test animal.
- 4442 LINNSEN, J. Control of Tarsonemus pallidus by spraying. (In Dutch.) Groenten en Fruit 4: 164. Sept. 16, 1948. 80 G89
- 4443 MARLE, G. S. VAN. Control of Tetranychidae in greenhouses with azobenzene. (In Dutch.) Tuinbouw 3: 184-187. July 1948. 80 T815
- 4444 MELLO-LEITÃO, C. DE. Contribution to a knowledge of the spider fauna of the Guianas. (In Portuguese.) Acad. Bras. de Cien. Ann. 20: 151-196. June 30, 1948. 516 R473A  
Includes n. spp. in: Thaumasia; Hamataliva; Tama; Faiditus; Acacesia; Aspidolasius; Azilia; Chaetacis, 2; Eustala; Mangora; Mecynogea; Molinaranea; Neosconella; Acanthoctenus; Neoctenus; Browningella n. g. (Thomisidae); Onocolus; Synaema; Tmarus; Castianeira; Apochinomma; Stetorrhagus, 2; Syspira; Acragas; Corythalia; Encolpius; Phidippus; Philaeus; Psecas; Tutelina; Wulfila.
- 4445 MOOREHEAD, C. A. A new treatment for demodectic mange [in dogs]. North Amer. Vet. 29: 649-650. Oct. 1948. 41.8 N812  
B. L. Emulsion No. 40 for Demodex canis.
- 4446 MORRIS, J. C. H. A new genus of pseudogaryp-  
tin pseudoscorpions [Neopseudogarypus, with N. scutellatus n. sp.] possessing pleural plates. Roy. Soc. Tasmania, Papers and Proc. 1947: 43-47. 514 H65
- 4447 MORRIS, J. C. H. The taxonomic position of Idiogarypus [i.e. Synsphyronus] hanseii (With). Roy. Soc. Tasmania, Papers and Proc. 1947: 37-41. 514 H65
- 4448 NICHOLS, L. E. Cheese-mite [Tyrophagus putrescentiae] control trials. Austral. J. Dairy Technol. 2: 124-126. July/Sept. 1947. 44.8 Au74
- 4449 PETERS, H. M. Zur geometrie des spinnen-  
netzes. Z. f. Naturf. 2b: 227-232. May/June 1947. 474 Z3
- 4450 PHILIPS, C. B., and HUGHES, L. E. The tropical rat mite, Liponyssus bacoti, as an experimental vector of rickettsialpox. Amer. J. Trop. Med. 28: 697-705. Sept. 1948. 448.8 Am33
- 4451 RADFORD, C. D. New larval mites (Acarina: Trombiculidae and Leeuwenhoekidae) from African hosts. London. Zool. Soc. Proc. 118: 213-222. May 1948. 410.9 L84P  
New spp. in Trombicula; Pentagonella; Acomatacarus; Schöngastia, 2; Ascoschöngastia, 3.
- 4452 RADFORD, C. D. Trombiculindus squamosus, gen. nov., sp. n. A new genus and species of larval mite (Acarina: Trombiculidae). London. Zool. Soc. Proc. 118: 126-128. May 1948. 410.9 L84P
- 4453 RICHARDS, W. S. The life history of the British harvest mite, Trombicula autumnalis, with a description of sampling methods for larvae. Roy. Soc. Trop. Med. & Hyg. Trans. 42(1): 6-7. July 1948. 448.9 R813
- 4454 ROBERTS, I. H. Sheep scab and its treatment with benzene hexachloride. Washington, U. S. Ext. Serv., 1948. 4 p. 1.972 A5R54  
Control of Psoroptes equi ovis.
- 4455 ROMERO, M. G. Observaciones prácticas sobre el empleo de baños garrapaticidas. Agr. Trop. 4 (9): 25-27. Sept. 15, 1948. 26 Ag8
- 4456 ROUSSELOT, R. Hyalomma brumpti Delpy 1946. Description de la larve et de la nymphe. Biologie. Ann. de Parasitol. Humaine et Compar. 23: 31-34. 1948. 436.8 An7
- 4457 SILVA, A. B. DA. Ticks. (In Portuguese.) Agronomia [Rio de Janeiro] 6: 227-230. July/Sept. 1947. 9.2 Ag892
- 4458 SMITH, L. M., and STAFFORD, E. M. The bud mite and the erineum mite of grapes. Hilgardia 18: 317-334. July 1948. 100 C12H  
Two strains of Eriophyes vitis.
- 4459 SPENCER, W. T. Sarcoptic swine mange. Berkshire News 13(11): 14-15. Sept. 1948. 46.8 B454  
Chlordane to control Sarcoptes scabiei suis.



4460 TRÄGÅRDH, I. Description of *Micromegistus*, a new genus of the Paramegistidae, with notes on *Neomegistus*, *Paramegistus* and *Echinomegistus*. (Acarina). Ent. Tidskr. 69: 127-131. 1948. 421 En891

4461 TULLGREN, A. Zwei bemerkenswerte vertreter der familie Dictynidae (Araneae). Ent. Tidskr. 69: 155-160. 1948. 421 En891

*Brommella notabilis* n. g., n. sp.; *Argenna prominula* n. sp.

4462 TURK, F. A. Insecticolous Acari from Trinidad, B. W. I. London. Zool. Soc. Proc. 118: 82-125. Ref. May 1948. 410.9 L84P

Includes n. spp. in: *Sennertia*: *Horstiella* n. g.; *Amansia*; *Uroplitana*; *Neoholaspis* n. g.; *Coprhoholaspis*; *Andrhoholaspis*; *Holostaspella*; *Onchodellus*; *Meliponapachys* n. g.; *Eumellitiphis* n. g.; *Hypoaspis*; *Zontia* n. g.; *Syngynaspis*.

4463 WANG, K. C., and others. Nephritis in scabies. Chin. Med. J. 66: 277-279. May 1948. 448.8 C44

C. T. Teng, C. C. Chen, and C. K. Hu, joint authors.

4464 WILSON, S. G. A method of assessing the acaricidal properties of DDT and "gammexane" preparations in field trials. B. Ent. Res. 39: 269-276. Aug. 1948. 421 B87

Tests with *Rhipicephalus appendiculatus* and *Amblyomma variegatum* on cattle.

### COLEOPTERA

4465 AGRELL, I. The effect of the physiological state of insects (Carabidae) on their thermal preference. Opuscula Ent. 12: 127-137. 1947. 421 Op7

Observations on *Harpalus pubescens*, *Calathus erratus*, and *Pterostichus niger*.

4466 ARNASON, A. P., FOX, W. B., and GLEN, R. A preliminary test of DDT and benzene hexachloride for the control of wireworms [chiefly *Ctenicera aeripennis* destructor] in a Saskatchewan potato field. Canad. Ent. 79: 174-180. Sept./Oct. 1947. 421 C16

4467 BALFOUR-BROWNE, J. Further note on *Ochthebius kaninensis* B. Poppius (Col., Hydrophilidae). Ent. Monthly Mag. 84: 239. Oct. 1948. 421 En86

4468 BERGER, G., and COURAUT, J. Traitement du capnode noir (*Capnodis tenebrionis* L.) des arbres fruitiers. Terre Maroc. 17: 348-350. Sept. 1947. 24 T44

4469 BERVILLE, P. Le problème du capnode [*Capnodis tenebrionis*] en Province. II. Prog. Agr. et Vitic. 1948: 12-15. July 4/11, 1948. 14 P94

4470 BÖHM, H. Der rauhaarige rosenkäfer oder rauhkäferchen (*Tropinota hirta*). Bundesanst. f. Pflanzenschutz. Flugbl. 46, 1 p. 1948. 464.9 V672F

4471 BONI, A. Control of the doryphore [*Leptinotarsa decemlineata*], enemy number 1 of the potato and Solanaceae. (In Italian.) Ital. Vinic. ed Agr. 38: 112-113. May 31, 1948. 95.8 It1

4472 BONNEMAISON, L. Les taupins: biologie et méthodes de lutte. Agriculture [Paris] 12: 287-291. Sept. 1948. 14 Ag823

*Agriotes* spp.

4473 BRIEJËR, J. C. The Colorado potato beetle [*Leptinotarsa decemlineata*] and its control in the Netherlands. (In Danish.) Tidskr. for Landøkonomi 1948: 444-456. Sept. 1948. 11 T43

4474 BRYANT, G. E. New species of Chrysomelidae (Halticinae) from East Africa. Ann. & Mag. Nat. Hist., ser. 12, 1: 145-171. Mar. 1948. 410 An77

New spp. in: *Diamphidia*, 2; *Polyclada*, 2; *Blepharida*, 2; *Blepharidella*; *Chaetocnema*, 2; *Aphthona*; *Sebaethe*; *Crepidodera*, 4; *Gabonia*; *Podagric*; *Cercyonia*, 4; *Phellopona*, 2.

4475 BUCK, J. B. Light organ of the firefly. Schenectady, N. Y., 1948. 4 p. 500 G28

Broadcast on Lampyridae.

4476 BUZACOTT, J. H. The field identification of cane grubs. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 35-39. July 1, 1948. 65.9 Q3C

Coleopterous larvae.

4477 CALLAN, E. M. Effect of defoliation on reproduction of *Cordia macrostachya*. B. Ent. Res. 39: 213-215. Aug. 1948. 421 B87

Relation to proposed use of the leaf-eating beetles *Physonota alutacea* and *Schematiza cordiae* for biological control.

4478 CAÑIZO GÓMEZ, J. DEL. Plagas del campo: la "pulguilla" de la remolacha [*Chaetocnema tibialis*]. Ganadería [Madrid] 6: 240-245. May 1948. 49 G15

4479 CATALA, R. Sur deux parasites de l'orange et leurs dégâts dans les régions suburbaines de Nouméa (Nouvelle-Calédonie). Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 28: 357-359. July/Aug. 1948. 26 R323

*Onidistus pacificus* and *Phanerosthetus niger*.

4480 CATALA, R. Sur la lutte entreprise contre un parasite de la pomme de terre en Nouvelle-Calédonie. Rev. Internatl. de Bot. Appl. et d'Agr. Trop. 28: 359-360. July/Aug. 1948. 26 R323

*Listoderes obliquus*.

4481 CORY, E. N., and LANGFORD, G. S. Japanese beetle [*Popillia japonica*] and its control. Md. Agr. Col. Ext. C. 154, 8 p.-folder. June 1948. 275.29 M36L

4482 CUILLE, J. Recherches sur les produits insecticides contre *Cosmopolites sordidus* Germ. Fruits d'Outre Mer 3: 290-298. Aug./Sept. 1948. 80 F9492

4483 DEAN, R. W. Plum curculio [*Conotrachelus nenuphar*] control with chlorinated hydrocarbon insecticides in 1947. J. Econ. Ent. 41: 524-525. June 1948. 421 J822

4484 DEVANTOY, J. La chrysomèle du peuplier. *Melasoma populi* ou *Lina populi* L. (Col. Chrysomelidae). Entomologiste 4: 74-81. Ref. Mar./Apr. 1948. 421 En814

4485 ESTREES, A. M. D'. Expériences sur la résistance des pommes de terre au doryphore [*Leptinotarsa decemlineata*]. J. de la France Agr. 4(165): 4. Aug. 27/Sept. 2, 1948. 14 J829

4486 FENNEL, J. L. Maiz resistente al gusano [*Diabrotica* sp.] de la raíz. Almanaque Campesino del ABC 8(8): 99-100. Jan. 1948. 8 AL63

4487 FISHER, W. S. Results of the Oxford University Cayman Islands Biological Expedition, 1938. Descriptions of five new species and one variety of *Cerambycidae* (Col.). Ent. Monthly Mag. 84: 225-228. Oct. 1948. 421 En86

New spp. and forms in: *Protosphaerion*; *Eburia*, 2; *Leptostylus*, 3.

4488 FOX, C. J. Tentative recommendations for the use of benzene hexachloride in the control of wireworms in tobacco soils. Canada. Sci. Serv. Div. Ent. Processed P. 74, 2 p. Ottawa, 1948. 423.92 C16P

4489 FOX, W. B. 2,4-D as a factor in increasing wireworm damage of wheat. Sci. Agr. 28: 423-424. Sept. 1948. 7 Sci2

4490 GAINES, R. C., and SCALES, A. L. Effectiveness of insecticides on the boll weevil [*Anthonomus grandis*] in cotton squares in 1947. J. Econ. Ent. 41: 519-520. June 1948. 421 J822

4491 GILMOUR, E. F. Miscellaneous new Laminae (Col., *Cerambycidae*). Ent. Monthly Mag. 84: 229-231. Oct. 1948. 421 En86

New spp. and forms in: *Glenea*; *Zoographus*, 2; *Olenocampus*.

4492 GINESTET, R. Capture de Staphylinidae dans les Alpes de Savoie. Entomologiste 4: 111. Mar./Apr. 1948. 421 En814

4493 GREEN, J. W. New eastern American species of *Podabrus*. II. (Coleoptera: *Cantharidae*). Amer. Ent. Soc. Trans. 74: 75-82. June 1948. 420 P53

4494 GREEN, J. W. Two new species of *Lampyridae* from southern Florida, with a generic revision of the Nearctic fauna (Coleoptera). Amer. Ent. Soc. Trans. 74: 61-73. June 1948. 420 P53

*Micronaspis floridana* n. g., n. sp.; *Pleotomodes needhami* n. g., n. sp.

4495 GUINET, J. Sur deux *Cetonia* nuisibles aux vergers dans les Alpes-Maritimes. Entomologiste 4: 109-110. Mar./Apr. 1948. 421 En814

4496 HADLEY, C. H. Control of the Japanese beetle [*Popillia japonica*]. Plants & Gard. (n. s.) 4: 188-190. Autumn 1948. 450 P694

4497 HAMMOND, G. H. The distribution, life-history and control of *Phyllophaga anxia* Lec. in Quebec and Ontario. Sci. Agr. 28: 403-416. Ref. Sept. 1948. 7 Sci2

4498 HATCH, M. H., and HOUK, H. *Adalia bipunctata* in buildings in Washington. J. Econ. Ent. 41: 412. June 1948. 421 J822

4499 HENDERSON, W. J., and MICKLE, G. T. The Dutch elm disease and its carrier, the smaller European elm bark beetle [*Scolytus multistriatus*]. Colo. Agr. Col. Ext. C. 155-A, 11 p. July 1948. 275.29 C71C1

4500 HILL, R. E., HIXSON, E., and MUMA, M. H. Corn rootworm [*Diabrotica longicornis*, *D. virgifera*] control tests with benzene hexachloride, DDT, nitrogen fertilizers and crop rotations. J. Econ. Ent. 41: 392-401. Ref. June 1948. 421 J822



- 4501 HOGAN, T. W. Pin-hole borers of fire-killed mountain ash. The biology of the pin-hole borer—*Platypus subgranosus* S. Victoria. Dept. Agr. J. 373-379. Aug. 1948. 23 V66J
- 4502 HYMAN, J., & COMPANY. Direct control of plum curculio [*Conotrachelus nenuphar*] and other fruit insects with chlordane. Hyman, Julius, & Co., Tech. Sup. 208A, 4 p. Denver, 1948. 423.9 H99
- 4503 KAPUR, A. P. On the Old World species of the genus *Stethorus* Weise (Coleoptera, Coccinellidae). B. Ent. Res. 39: 297-320. Ref. Aug. 1948. 421 B87 Includes 12 n spp.
- 4504 KLETT. Was ist gegen die engerlinge zu tun? Württemb. Wehnl. f. Landw. 115: 209. Aug. 7, 1948. 18 W96
- Control of *Melolontha* sp.
- 4505 KONO, H. A new species of Curculionidae, *Phyllobius intrusus*, injurious in the State of Rhode Island. (Coleoptera). Wash. Biol. Soc. Proc. 61: 169-170. Sept. 3, 1948. 500 W272
- 4506 KUHN, R., and GAUHE, A. Über die bedeutung des demissins für die resistenz von *Solanum demissum* gegen die larven des kartoffelkäfers [*Leptinotarsa decemlineata*]. Z. f. Naturf. 2b: 407-409. Nov./Dec. 1947. 474 Z3
- 4507 KULT, K. L'apparition d'*Amara erythrocnema* Zimm., dans l'Europe centrale (Col. Carab.). Entomologiste 4: 109. Mar./Apr. 1948. 421 En814
- 4508 LANDIN, B. O. The genus *Amphimallon* Berth. in Sweden (Col. Scarab.). A. solstitialis L. and A. fallénii Gyll. two distinct species. (In Swedish.) Opuscula Ent. 12: 138-143. 1947. 421 Op7 English summary.
- 4509 LA RIVERS, I. A re-definition of the tribe Edroini (Coleoptera: Tenebrionidae). Ent. News 59: 141-145. June 1948. 421 En88
- 4510 LAUDANI, H. A simplified technique for rearing carpet beetles. Soap & Sanit. Chem. 24: 139, 143. Oct. 1948. 307.8 S012
- Attagenus piceus*, *Anthrenus vorax*, *Tribolium confusum*, and *Lasioderma serricornne*.
- 4511 LECLERCQ, J. Sur les besoins nutritifs de la larve de *Tenebrio molitor* L. Biochim. et Biophys. Acta 2: 329-332. Ref. Aug. 1948. 381 B522
- 4512 LEILER, T. E. Contribution to the knowledge of the distribution and biology of Swedish Coleoptera. (In Swedish.) Opuscula Ent. 12: 158. 1947. 421 Op7
- 4513 LINDROTH, C. H. Influence of the sun on the flight direction of some Coleoptera. Ent. Tidskr. 69: 132-134. 1948. 421 En891
- 4514 LIU, C. L. Contributions to the knowledge of Chinese Coccinellidae. IX. On a new serphid parasite of the larva of *Epilachna admirabilis* in Kunming. Ent. News 59: 146-148. June 1948. 421 En88
- 4515 MANTOVANI, M. *Cydia* [i. e. *Carpocapsa*] *pomonella*. (In Italian.) Gior. di Agr. 58: 254. Sept. 19, 1948. 16 It1G
- 4516 MARTELLI, G. M. Experiments with DDT for control of *Anthonomus* of almonds. (In Italian.) Risveglio Agr. 7: 250-251. July 15/31, 1948. 16 R49 *Anthonomus ornatus*.
- 4517 MELIS, A. Farmers on the alert! The doryphore [*Leptinotarsa decemlineata*] in our region. (In Italian.) Terra [Firenze] 59(29): 2. July 18, 1948. 16 T274
- 4518 MIR, R. M. Destrucción del alacrán cebollero (cadells). Cult. Mod. 31: 169-170. May 1948. 15 C89 *Tenebroides mauritanicus*.
- 4519 MORÈRE, A. Note sur une localité nouvelle ou peu connue: Région de Monthéry (S.-et-O.). Entomologiste 4: 102-107. (Cont.) Mar./Apr. 1948. 421 En814
- Curculionidae.
- 4520 MUNDINGER, F. G. Experiments on control of the eastern raspberry fruitworm [*Byturus rubi*]. J. Econ. Ent. 41: 436-440. June 1948. 421 J822
- 4521 MUNGOMERY, R. W. The use of "Gammexane" in controlling "white grubs" in Queensland cane-fields. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 21-28. July 1, 1948. 65.9 Q3C
- Control of *Dermolepida albhirtum*, *Lepidiota* spp., etc.
- 4522 NEISWANDER, R. B. Plum curculio [*Conotrachelus nenuphar*] on peaches and plums in Ohio. J. Econ. Ent. 41: 450-453. June 1948. 421 J822
- 4523 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Tree borers. Agr. Gaz. N. S. Wales 59: 369-374, 390. July 1948. 23 N472
- Dihammus vastator*, *Orthorhinus cylindrirostris*, *Hylesinus fici*, *Bostrychopsis jesuita*, *Aesiotes leucurus*, *Diadoxus* spp., *Axonius insignis*, *Maroga unipuncta*.
- 4524 NYHOLM, T. Coleopterological contributions. VIII. A locality for *Paederus litoralis* Grav. in Scania. (In Swedish.) Opuscula Ent. 12: 151-157. 1947. 421 Op7 German summary.
- 4525 PALM, T. *Bibloporus höglundi* n. sp. (Col. Pselaphidae). (In German.) Ent. Tidskr. 69: 122-124. 1948. 421 En891
- 4526 PIC, M. Coléoptères du globe. Échange 64: 9-12. (Cont.) Aug. 3, 1948. 420 Ec4
- New spp. and forms in: *Tenerus*, 6; *Hylophilus*; *Macratia*, 2; *Alleculea*, 2; *Mordella*, 3; *Cryptocephalus*; *Cephalodonta*; *Falsopetalium* n. g. (Anobiidae); *Priotoma*; *Dorcatoma*; *Xyletinus*, 4; *Scaphidium*; *Ptilodactyla*.
- 4527 PIC, M. Dissertation sur *Acmaeops marginata* F. (Col. Cerambycidae). Entomologiste 4: 63-65. Mar./Apr. 1948. 421 En814
- 4528 PIERCE, W. D. Fossil arthropods from British Columbia. 4. An *Elaphrus* from interglacial lignite. South. Calif. Acad. Sci. B. 47: 52-53. May/Aug. 1948. 500 So8
- 4529 PIERCE, W. D. Fossil arthropods of California. 16. The Carabid genus *Elaphrus* in the asphalt deposits. South. Calif. Acad. Sci. B. 47: 53-55. May/Aug. 1948. 500 So8
- 4530 POIRET. Coléoptères insulaires. Entomologiste 4: 110-111. Mar./Apr. 1948. 421 En814
- Collections on Île Dumet.
- 4531 RITCHER, P. O. Descriptions of the larvae of some ruteline beetles with keys to tribes and species. (Scarabaeidae). Ent. Soc. Amer. Ann. 41: 206-212. Ref. June 1948. 420 En82
- Paracotalpa ursina ursina* and *Plusiotis woodi*.
- 4532 ROBINSON, M. Remarks on a few Scarabaeidae (Coleoptera). Ent. News 59: 175-177. July 1948. 421 En88
- Phanaeus chiriquensis*; *Onthophagus hopfneri*; *O. depressus*; *Ataenius ovatus*.
- 4533 ROBINSON, M. A review of the species of *Canthon* inhabiting the United States (Scarabaeidae: Coleoptera). Amer. Ent. Soc. Trans. 74: 83-99. June 1948. 420 P53
- Includes *C. melanus* and *C. mixtus* n. spp.
- 4534 ROBINSON, M. Two new species of neotropical Scarabaeidae (Coleoptera). Ent. News 59: 149-151. June 1948. 421 En88
- Trichillum pilosus*; *Anomala chapini*.
- 4535 SCALES, A. L., and SMITH, G. L. Cage tests against the boll weevil [*Anthonomus grandis*] and the tarnished plant bug [*Lygus oblineatus*] with synthetic organic insecticides and calcium arsenate in 1947. J. Econ. Ent. 41: 403-405. June 1948. 421 J822
- Tests with chlordane, benzene hexachloride, toxaphene, parathion, DDT, and methoxychlor.
- 4536 SEIXAS, C. Fight the coffee-berry borer [*Stephanedores hampei*]. (In Portuguese.) Soc. Rural Bras. Rev. 28(335): 18-20, 22-24, 26-27. Aug. 1948. 9.2 B733
- Discussion, p. 27-30, 32, 34-35.
- 4537 SIMMONDS, F. J. The effective control by parasites of *Schematiza cordiae*, Barber, in Trinidad. B. Ent. Res. 39: 217-220. Aug. 1948. 421 B87
- 4538 SIMON, A. Capture de *Saperda perforata* Pall. Entomologiste 4: 111. Mar./Apr. 1948. 421 En814
- 4539 TOMKINSON, J. The Colorado beetle [*Leptinotarsa decemlineata*] menace. Poultry Farmer [Sydney] 16(5): 31. July 31, 1948. 280.28 Or32
- 4540 WATZL, O. Drahtwürmer [Elaterridae]. Bundesanst. f. Pflanzenschutz. Flugbl. 47, 2 p. 1948. 464.9 V672F
- 4541 WATZL, O. Käfer als rübenschädlinge. Bundesanst. f. Pflanzenschutz. Flugbl. 48, 4 p. 1948. 464.9 V672F
- Brachyrhinus ligustici*, *Bothynoderes punctiventris*, *Alticidae*, *Silpha opaca*, etc., on sugar beets.
- 4542 WATZL, O. Der lappenrüssler (*Mylacus rotundatus* Fbr.) als getreideschädling. Pflanzenschutzberichte 3: 97-100. July 1948. 464.9 P48
- 4543 WENE, G. P. Control of the cowpea curculio [*Chalcodermus aeneus*]. J. Econ. Ent. 41: 514-515. June 1948. 421 J822



4544 YOUNG, M. T. Control of boll weevil [*Anthonomus grandis*] and cotton aphid [*Aphis gossypii*] with benzene hexachloride and chlorinated camphene in 1947. *J. Econ. Ent.* 41: 401-403. June 1948. 421 J822

## DIPTERA

4545 ALEXANDER, C. P. Records and descriptions of Neotropical crane-flies (Tipulidae, Diptera), XXIII. *N. Y. Ent. Soc. J.* 56: 137-148. Sept. 1948. 420 N48J  
New spp. in: *Austrolimnophila*; *Pseudolimnophila*; *Teucholabis*, 5; *Gnophomyia*; *Gonomyia*, 2.

4546 ALIBERT, H. Contribution supplémentaire à la lutte contre la mouche des fruits [*Ceratitis capitata*]. Fruits et Primeurs de l'Afrique du Nord, Éd. Maroc. 18: 231. July/Aug. 1948. 80 P9482

4547 ANTHONY, D. J. Hypoderma bovis lesions in equines. *Vet. Rec.* 60: 411. Aug. 21, 1948. 41.8 V641

4548 ÁSGEIRSSON, R. The days of the house fly [*Musca domestica*] are numbered. (In Icelandic.) *Freyr* 43: 203. June 1948. 11 F89

4549 BUSHNELL, R. J., and WALLACE, R. H. Induction of sex-linked mutations in *Drosophila* with ultrasonic treatment. (Abs.) *Anat. Rec.* 101: 690. Aug. 1948. 447.8 An1

4550 BUSTAMANTE, M. E. Epidemiología de la leishmaniasis en América. *Ofic. Sanit. Panamer. B.* 27: 611-618. Ref. July 1948. 449.9 P192B  
English summary.

*Flebotomus* spp. are vectors.

4551 BUXTON, P. A. Tsetse flies [*Glossina*] and the development of Africa. *Res. Defence Soc. Fight Against Dis.* 36: 10-17. 1948. 448.9 R312

4552 CALERO, C. Cutaneous myiasis in Panama. *J. Parasitol.* 34: 343-344. Aug. 1948. 448.8 J824  
Cases due to *Sarcophaga haemorrhoidalis* and *Callitroga americana*.

4553 CARMICHAEL, J., and others. Discussion: the epidemiology of trypanosomiasis in man and animals. *Roy. Soc. Med. Proc.* 41: 551-558. Aug. 1948. 448.9 R 448.9 R814

Role of *Glossina* in transmission.

Other participants included C. A. Hoare, J. T. Edwards, E. M. Lourie, and P. L. LeRoux.

4554 CHARON, A. J. Nouveautés, curiosités et progrès agricoles. *Défense Agr. de la Beauce et du Perche* 45: 249. Sept. 20, 1948. 14 D36

Fly control.

4555 CHWATT, L. J., GORDON, R. M., and JONES, C. M. The breeding-places of Chrysops silacea. *Ann. Trop. Med. & Parasitol.* 42: 251. Sept. 1948. 448.9 L75A

4556 COOPER, K. W. The evidence for long range specific attractive forces during the somatic pairing of dipteran chromosomes. *J. Expt. Zool.* 108: 327-332. Aug. 1948. 410 J825

Observations on *Drosophila melanogaster*.

4557 CROS SARRIA, M. Cueros, aguijón e hipodermosis bovina. II. Ganadería [Madrid] 6: 258-259. May 1948. 49 G15

Damage to leather due to *Hypoderma bovis*.

4558 CROWELL, H. H., and others. Cabbage maggot [*Hylemya brassicae*] control by the use of benzene hexachloride in the soil. *J. Econ. Ent.* 41: 362-365. June 1948. 421 J822

H. E. Morrison, S. E. Crumb, Jr., and R. W. Lauderdale, joint authors.

4559 DÍAZ NÁJERA, A., and VARGAS, L. Nota sobre de la identificación de los Simúlidos de México: el subgénero *Mallochianella* n. n. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9(1): 65-73. Ref. Mar. 1948. 449.9 M572

English summary.

Subgenus of *Gigantodax*.

4560 DU TOIT, R., GOOSEN, P. G., and DE KOCK, J. M. Blowfly strike in sheep; application of the new insecticides. *Farming So. Africa* 23: 380-382, 390. June 1948. 24 So842

Control of *Lucilia cuprina* with DDT and benzene hexachloride.

4561 FAIRCHILD, G. B., and HERTIG, M. Notes on the *Phlebotomus* [i.e. *Flebotomus*] of Panama (Diptera, Psychodidae). III. *P. cruciatus* Coq., *trinidensis* Newst. and *gomezi* Nitz. *Ent. Soc. Amer. Ann.* 41: 247-257. June 1948. 420 En82

4562 FERREIRA, F. S. DA C. On the degree of infestation by trypanosomes of *Glossina palpalis* in Portuguese Guinea. (In Portuguese.) *Inst. de Med. Trop. An.* 4: 91-97. Dec. 1947. 448.9 L68  
French and English summaries.

4563 FISHER, E. H. Fly and odor control in pea silage stacks. *Food Packer* 29(11): 44. Oct. 1948. 286.83 C165

4564 FLOCH, H., and ABONNENC, E. Clef d'identification de 140 phlébotomes [*Flebotomus*] mâles du Nouveau Continent. *B. de Ent. Venezol.* 6(1): 1-24. Mar. 31, 1947. 421 B63

4565 GARRISON, C. S., and FILMER, R. S. Plant wheat on fly-free dates. *N. J. Farm & Gard.* 19(9): 18. Sept. 1948. 6 G162

*Phytophaga destructor*.

4566 GOLDSMITH, E. D., TOBIAS, E. B., and HARNLY, M. H. Folic acid antagonists and the development of *Drosophila melanogaster*. (Abs.) *Anat. Rec.* 101: 743. Aug. 1948. 447.8 An1

4567 GRAHAM, O. H., and EDDY, G. W. Persistence of chlorinated camphene as a fleece worm larvicide. *J. Econ. Ent.* 41: 521. June 1948. 421 J822

Tests on *Callitroga macellaria* and *Phormia regina*.

4568 HAGMANN, L. E., and BARBER, G. W. Overwintering habits of *Phaenicia sericata* (Mg.). *J. Econ. Ent.* 41: 510. June 1948. 421 J822

4569 HANSENS, E. J. Fly control in farm buildings. *N. J. Agr. Col. Ext. Leaflet* 20, 4 p. June 1948. 275.29 N46L

4570 HARDY, D. E. Notes and descriptions of Dorilaidae. II. (Pipunculidae-Diptera). *Kans. Ent. Soc. J.* 21: 88-90. July 1948. 420 K13

*Dorilas dreisbachi*, *D. michiganensis* n. spp.

4571 HASEMAN, L. An authentic case of ox warble [*Hypoderma lineatum*] in man. *J. Econ. Ent.* 41: 515. June 1948. 421 J822

4572 HORNBY, H. E. Report on the tsetse-fly [*Glossina*] problems of Maputo. *Inst. de Med. Trop. An.* 4: 313-371. Dec. 1947. 448.9 L68

French and Portuguese summaries.

Appendix I. List of trees, shrubs and woody herbs seen in the Maputo District of Portuguese East Africa, p. 366-371.

4573 KAUFMANN, B. P., and GAY, H. Effect of near infrared radiation on the production of chromosome rearrangements in *Drosophila* by nitrogen mustard. (Abs.) *Anat. Rec.* 101: 670-671. Aug. 1948. 447.8 An1

4574 LEITE, A. S., LUZ, J. V. B. DA, and MEIRA, M. T. V. DE. Note on *Flebotomus* and *Glossina* in Angola. (In Portuguese.) *Inst. de Med. Trop. An.* 4: 25-32. Dec. 1947. 448.9 L68

French and English summaries.

4575 MCKAY, K. G., and FURMAN, D. P. Cattle grubs [*Hypoderma*]; spray formula and application method recommended to reduce losses from pests. *Calif. Agr. [Calif. Sta.]* 2(10): 5, 12. Oct. 1948. 100 C12Cag

4576 MACLEOD, J. The distribution and dynamics of ked populations, *Melophagus ovinus* Linn. *Parasitology* 39(1/2): 61-68. July 1948. 448.8 P21

4577 MORETTI, G. Thanite touches and kills. (In Italian.) *Humus* 4(8): 23-26. Aug. 1948. 16 H88  
Results on flies.

4578 MOTE, D. C., and EVERY, R. W. Sheep tick [*Melophagus ovinus*] control. *Oreg. State Col. Ext. C.* 523, 3 p. Sept. 1948. 275.29 Or32C

4579 NIELSEN, H. E. Boxwood leaf miner [*Monarthropalpus buxi*]. (In Swedish.) *Gart. Tid.* 64: 454. Sept. 15, 1948. 80 G192

4580 O'MAHONY, E. *Lipoptena cervi* L. (Dipt., Hippoboscidae) in Ireland. *Ent. Monthly Mag.* 84: 231. Oct. 1948. 421 En86

4581 ORCUTT, E. P. Tick [*Melophagus ovinus*] control. *Mont. Wool Grower* 22(10): 16. Oct. 1948. 45.8 M762  
On sheep.

4582 PALMER, E. L. Fly time. *Nature Mag.* 41: 417-419, 424. Oct. 1948. 409.6 N214

4583 PARSONS, C. T. A classification of North American Conopidae. *Ent. Soc. Amer. Ann.* 41: 223-246. June 1948. 420 En82

4584 RINGDAHL, O. Dipterologische notizen. 1-2. *Opuscula Ent.* 12: 126. 1947. 421 Op7

1. Eine neue muscicide, *Phaonia suecica* n. sp. 2. *Myopa polystigma* Rond. in Schweden (Dipt., Conopidae).



- 4585 ROTH, A. R., and LINDQUIST, A. W. Ecological notes on the deer fly [*Chrysops discalis*] at Summer Lake, Oregon. *J. Econ. Ent.* 41: 473-476. June 1948. 421 J822
- 4586 SATCHELL, G. H. The respiratory horns of *Psychoda* pupae (Diptera: Psychodidae). *Parasitology* 39(1/2): 43-52. Ref. July 1948. 448.8 P21
- 4587 SCHMITZ, H. Zwei neue europäische arten der Dipterengattung Phora [P. hygrobica, P. indivisa]. *Broteria* 17: 110-114. 1948. 410 B79C
- 4588 SCULLIN, G. Tsetse [*Glossina* spp.]: the insect that conquered man. *Sci. Illus.* 3(11): 46-48. Nov. 1948. 470 Sci292
- 4589 SHAW, F. R. A contribution to the phylogeny of the Mycetophilidae. *Ent. Soc. Amer. Ann.* 41: 189-199. June 1948. 420 En82
- 4590 SILVESTRE, F. La mosca de las frutas (*Ceratitis capitata* Wied.). *Vinos, Viñas y Frutas* 44(514): 38-43. July 1948. 9 Ag89
- 4591 SPIETH, H. T. Observations on the mating behavior of *Drosophila pseudoobscura* and *D. persimilis*. (Abs.) *Anat. Rec.* 101: 706. Aug. 1948. 447.8 An1
- 4592 STEFANSKI, W. La lutte contre l'Hypoderme du boeuf en Pologne. (In Polish.) *Med. Wet.* 4: 413-417. July 1948. 41.8 M463  
French summary.
- 4593 TATE, P. The technique for breeding pure-line cultures of the blow-fly (*Calliphora erythrocephala*). *Parasitology* 39(1/2): 102-104. July 1948. 448.8 P21
- 4594 TEIXEIRA, A. W. G. Regarding the experimental breeding of *Flebotomus*. (In Portuguese.) *Inst. de Med. Trop. An.* 4: 107-148. Ref. Dec. 1947. 448.9 L68  
French and English summaries.
- 4595 THONE, F. Las raras actitudes de un enemigo peligrosa, la mosca domestica [*Musca domestica*]. *Hereford* 15: 502-503. Sept. 1948. 43.8 H42
- 4596 UNSWORTH, K. Observations on the occurrence of larvae of *Oestrus ovis* in the nasal cavities and frontal sinuses of goats in Nigeria. *Ann. Trop. Med. & Parasitol.* 42: 249-250. Sept. 1948. 448.9 L75A
- 4597 VARGAS, L., and DÍAZ NÁJERA, A. *Simulium clarki* Fairchild 1940 y *Simulium lutzianum* Pinto 1931: estructuras genitales. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9(1): 75-78. Mar. 1948. 449.9 M572  
English summary.
- 4598 VLIET, M. VAN DER. Control of *Platyparea poeciloptera* in 1948. (In Dutch.) *Groenten en Fruit* 4: 144. Sept. 9, 1948. 80 G89
- 4599 VOGT, M. Fördernde wirkung eines eierstock-hormons auf die entwicklung larvaler imaginal-scheiben von *Drosophila*. *Z. f. Naturf.* 2b: 367-369. Sept./Oct. 1947. 474 Z3
- 4600 VOGT, M. Verhalten transplantierter ringdrüsen "letaler" *Drosophila*-larven. *Z. f. Naturf.* 2b: 292-294. July/Aug. 1947. 474 Z3
- 4601 WALLACE, B. Studies on "sex-ratio" in *Drosophila pseudoobscura*. I. Selection and "sex-ratio." *Evolution* 2: 189-217. Ref. Sept. 1948. 443.8 Ev62
- 4602 WHEELER, B. A region of high iodine concentration in third instar larvae of *Drosophila gibberosa*. (Abs.) *Anat. Rec.* 101: 683-684. Aug. 1948. 447.8 An1
- 4603 WHITE, M. J. D. The cytogenetic system of the gall midges (*Cecidomyiidae*). (Abs.) *Anat. Rec.* 101: 671-672. Aug. 1948. 447.8 An1
- 4604 WIGGLESWORTH, V. B. La mosca tsetse [*Glossina*] en Nigeria. *Rev. Ganad. [Habana]* 8(10): 54. Oct. 1948. 49 R321
- 4605 WITT, P. N. Ein test zur prüfung der wirksamkeit insektizider substanzen und ein beitrage zum mechanismus der wirkung von DDT und HCC. *Z. f. Naturf.* 2b: 361-366. Sept./Oct. 1947. 474 Z3  
Tests with *Calliphora erythrocephala*.
- Culicidae**
- 4606 AFRIDI, M. K., and SINGH, D. A scheme for the control of malaria in villages in Delhi Province. *Indian J. Malariol.* 1: 423-440. Dec. 1947. 448.8 In24  
DDT spraying program for control of *Anopheles culicifacies*.
- 4607 ALVARADO, C. A., and COLL, H. A. Programa para la erradicación del paludismo en la República Argentina. *Ofic. Sanit. Panamer. B.* 27: 585-602. July 1948. 449.9 P192B  
English summary.  
Includes control of vectors, *Anopheles pseudopunctipennis*, *A. albitarsis*, and *A. darlingi*.
- 4608 ARNETT, R. H., JR. Notes on the distribution, habits, and habitats of some Panama culicines (Diptera: Culicidae). *N. Y. Ent. Soc. J.* 56: 175-193. (Cont.) Sept. 1948. 420 N48J
- 4609 AZEVEDO, J. F. DE, CAMBOURNAC, F. J. C., and PINTO, M. R. Observations on the incidence of malaria in Portuguese Guinea. (Preliminary note.) (In Portuguese.) *Inst. de Med. Trop. An.* 4: 7-15. Dec. 1947. 448.9 L68  
French and English summaries.  
Relation to *Anopheles* vector.
- 4610 AZEVEDO, J. F. DE, CAMBOURNAC, F. J. C., and PINTO, M. R. Results of a study on yellow fever in Portuguese Guinea. (In Portuguese.) *Inst. de Med. Trop. An.* 4: 17-24. Dec. 1947. 448.9 L68  
French and English summaries.
- 4611 BISHOP, A., and BIRKETT, B. Drug-resistance in *Plasmodium gallinaceum*, and the persistence of paludrine-resistance after mosquito transmission. *Parasitology* 39(1/2): 125-137. Ref. July 1948. 448.8 P21
- 4612 BRELAND, O. P. Notes on some carnivorous mosquito larvae. *Ent. News* 59: 156-157. June 1948. 421 En88  
*Megarhinus septentrionalis*; *Psorophora howardii*; *P. ciliata*.
- 4613 BURGESS, R. W. The experimental hybridization of *Anopheles quadrimaculatus* Say and *Anopheles maculipennis freeborni* Aitken. *Amer. J. Hyg.* 48: 171-172. Sept. 1948. 449.8 Am3
- 4614 CARPENTER, S. J. Gynandromorphism in *Aedes canadensis*. *J. Econ. Ent.* 41: 522-523. June 1948. 421 J822
- 4615 CHWATT, L. J. A new *Aedes* from the Cameroons, *A. (Aedimorphus) boneti* s. sp. *kumbae* s. sp. nov. *Ann. Trop. Med. & Parasitol.* 42: 184-189. Sept. 1948. 448.9 L75A
- 4616 D'ARCY, T. M. W. Malaria and the Army. *Roy. Army Med. Corps J.* 91(1): 7-22. Ref. July 1948. 448.9 R81  
Role of mosquitoes and control measures.
- 4617 DE BURCA, B., and JACOB, V. P. Further notes on malaria in Fort Sandeman. *Indian J. Malariol.* 1: 413-416. Dec. 1947. 448.8 In24  
*Anopheles culicifacies* and *A. stephensi* vectors.
- 4618 DE BURCA, B., and FORSHAW, H. W. Winter variations of the larva of *Anopheles fluviatilis* from northern India and Bombay Presidency. *Indian J. Malariol.* 1: 417-418. Dec. 1947. 448.8 In24
- 4619 DOWNS, W. G., COLORADO IRIS, R., and GAHAN, J. B. Residual effectiveness of DDT in the third season after application. *Amer. J. Trop. Med.* 28: 741-745. Sept. 1948. 448.8 Am33  
Tests with *Anopheles pseudopunctipennis*.
- 4620 EDGAR, S. A., and WILLIAMS, O. M. Effect of mosquitoes on poultry. (Abs.) *Poultry Sci.* 27: 660. Sept. 1948. 47.8 Am33P  
*Culex quinquefasciatus*.
- 4621 FOY, H., and others. Malaria and blackwater fever in Macedonia and Thrace in relation to DDT. *Ann. Trop. Med. & Parasitol.* 42: 153-172. Ref. Sept. 1948. 448.9 L75A  
A. Kondi, C. Damkas, M. Depanian, T. Lefcopoulou, L. G. Bach, R. Dax, J. Pitchford, P. Shiele, and M. Langton, joint authors.  
Survey in northern Greece; *Anopheles superpictus* is principal vector.
- 4622 GOKHALE, V. G., PHALNIKAR, N. L., and BHIDE, B. V. Synthetic mosquito larvicides. I. Bombay. *U. J., Sect. A, Phys. Sci. (n. s.)* 16(5): 32-36. Mar. 1948. 513 B633
- 4623 GORDON, R. M., and CREWE, W. Man's reaction to the bites of *Aedes aegypti*. *Roy. Soc. Trop. Med. & Hyg. Trans.* 42(1): 7-8. July 1948. 448.9 R813



4624 HADDOW, A. J., and others. Implication of the mosquito *Aedes* (*Stegomyia*) *africanus* Theobald in the forest cycle of yellow fever in Uganda. *Ann. Trop. Med. & Parasitol.* 42: 218-223. Sept. 1948. Ref. 448.9 L75A

K. C. Smithburn, G. W. A. Dick, S. F. Kitchen, and W. H. R. Lumsden, joint authors.

4625 JAFAR, M., and IYENGAR, M. O. T. The incidence of malaria in a deltaic area of Lower Bengal between the Damodar and the Hooghly Rivers. *Indian J. Malariol.* 1: 441-467. Dec. 1947. 448.8 In24  
*Anopheles philippinensis*, principal vector.

4626 KUYP, E. VAN DER. Mosquito records of the Netherlands Windward Islands. *Amer. J. Trop. Med.* 28: 747-749. Sept. 1948. 448.8 Am33

4627 LAIRD, M. Reactions of mosquitoes to the aircraft environment. *Roy. Soc. New Zeal. Trans. & Proc.* 77: 93-114. Ref. Apr. 1948. 514 W46

*Aedes notoscriptus* and *Culex pipiens pallens* exposed to high altitude (low pressure) and low temperatures.

4628 LEWIS, L. Malaria Ann. Trained Nurse and Hosp. Rev. 121: 212-214. Oct. 1948. 448.8 T68  
Role of *Anopheles* in transmission.

4629 MACAN, T. T. Mosquitoes and malaria in the Kabaw and Kale Valleys, Burma. *B. Ent. Res.* 39: 237-268. Ref. Aug. 1948. 421 B87

4630 MCCARTHY, D. D., and WILSON, D. B. Dengue in the East African Command. Incidence in relation to *Aedes* prevalence and some clinical features. *Roy. Soc. Trop. Med. & Hyg. Trans.* 42(1): 83-88. July 1948. 448.9 R813

4631 MACDONALD, G. The place of DDT as an anopheline larvicide. *Inst. de Med. Trop. An. 4*: 391-411. Ref. Dec. 1947. 448.9 L68

Portuguese summary.

4632 MACDONALD, G. The policy of malaria prevention. *Inst. de Med. Trop. An. 4*: 373-390. Ref. Dec. 1947. 448.9 L68

Portuguese summary.

Mosquito control.

4633 MAHAFFY, A. F. The epidemiology of yellow fever. *Roy. Sanit. Inst. J.* 68: 534-538. Ref. Sept. 1948. 449.9 R812

Role of *Aedes* spp. in transmission.

4634 MEIRA, M. T. V. DE, SIMÕES, T. S., and NOGUEIRA, J. F. P. Observations on malaria in the islands of Sal, Boa Vista and S. Nicolau (Cape Verdes). (In Portuguese.) *Inst. de Med. Trop. An. 4*: 213-238. Ref. Dec. 1947. 448.9 L68

French and English summaries.

*A. gambiae* only anopheline found.

4635 MICKS, D. W., DE CAIRES, P. F., and FRANCO, L. B. The relationship of exflagellation in avian plasmodia to pH and immunity in the mosquito. *Amer. J. Hyg.* 48: 182-190. Ref. Sept. 1948. 449.8 Am3

4636 PAL, R. Apparatus for studying the behaviour of mosquitoes in darkness. *Roy. Soc. Trop. Med. & Hyg. Trans.* 42(1): 6. July 1948. 448.9 R813

4637 PETTMAN, W. E. C. Flushing streams as an antimalaria measure under field service conditions. *Indian J. Malariol.* 1: 395-412. Dec. 1947. 448.8 In24  
Destroying larvae of *Anopheles minimus*.

4638 PINTO, A. R., and ALMEIDA, C. L. DE. Contribution to the study of filariasis in Portuguese Guinea. (In Portuguese.) *Inst. de Med. Trop. An. 4*: 59-89. Ref. Dec. 1947. 448.9 L68

French and English summaries.

*Anopheles gambiae*, principal vector.

4639 RAO, V. V., and RAMAKRISHNA, V. Control of breeding of *Anopheles* *sundaicus* by *Eichhornia*-cover. *Indian J. Malariol.* 1: 419-421. Dec. 1947. 448.8 In24

4640 SOPER, F. L. Saneamiento de especies aplicado a la erradicación de (a) una especie invasora, o (b) indígena. *Ofic. Sanit. Panamer. B.* 27: 603-610. July 1948. 449.9 P192B

Refers principally to eradication of *Aedes aegypti* and *Anopheles gambiae*.

4641 VARGAS, L., and MATHESON, R. Estado actual del *Anopheles earlei* Vargas 1943 y *Anopheles occidentalis* Dyar & Knab 1906 con claves para larvas, pupas y adultos del llamado complejo *maculipennis* de Norteamérica. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9(1): 27-31. Ref. Mar. 1948. 449.9 M572

4642 VARGAS, L. Fototropismo positivo en larvas de mosquito intoxicadas con DDT. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9(1): 47-49. Mar. 1948. 449.9 M572

English summary.

Observations on *Aedes aegypti* and *Anopheles pseudopunctipennis*.

4643 VISWANATHAN, D. K., and RAO, T. R. Control of rural malaria with D.D.T. indoor residual spraying in Kanara and Dharwar Districts, Bombay Province. First year's results. *Indian J. Malariol.* 1: 503-542. Dec. 1947. 448.8 In24

*Anopheles fluviatilis* and *A. culicifacies* vectors.

#### HEMIPTERA (HETEROPTERA AND HOMOPTERA)

4644 ALEXANDROV. *Eurygaster integriceps* Put. à Varamine et ses parasites. (In Persian.) *Iran. Dépt. Gén. de la Protect. des Plantes. Lab. Ent. et Phytopath. Appl.* 5: 29-41. (To be cont.) Sept. 1947. 464.9 P432  
French summary, p. 11-14.

4645 BACON, J. A. Some new species of *Rhagovelia* (Hemiptera, Veliidae). *Kans. Ent. Soc. J.* 21: 71-86. July 1948. 420 K13

4646 BARBER, H. G. Records of the species of *Nysius* occurring in the Dominion of Canada (Hemiptera: Lygaeidae). *Canad. Ent.* 79: 194. Sept./Oct. 1947. 421 C16

4647 BEAMER, R. H. Some new species of Delphacodes (Homoptera, Fulgoridae, Delphacinae). *Kans. Ent. Soc. J.* 21: 96-110. July 1948. 420 K13

4648 BENTSOVA, V. N. Destrucción de los focos filoxéricos. *Campo y Suelo Argentino* 32(382): 66. Aug. 1948. 9 C15

4649 BOURGIN, MME. G. Capture d'un hemiptère hétéroptère réputé rare. *Entomologiste* 4: 108. Mar./Apr. 1948. 421 En814

*Chilacis typhae*.

4650 BRAMSTEDT, F. Über die verdauungsphysiologie der Aphiden. *Z. f. Naturf.* 3b: 14-24. Jan./Feb. 1948. 474 Z3

4651 CALDWELL, J. S., and DELONG, D. M. A new species of Issidae from California (Homoptera: Fulgoroidea). *Ohio J. Sci.* 47: 176-177. Sept. 1948. 410 Oh3  
*Hysteropterum severini*.

4652 CHAMBERLIN, T. R. Insecticides for control of spittlebug [*Philaenus leucophthalmus*] nymphs in Wisconsin. *J. Econ. Ent.* 41: 509-510. June 1948. 421 J822

4653 DAHMS, R. G. Control of the greenbug [*Toxoptera graminum*] with insecticides. *J. Econ. Ent.* 41: 520-521. June 1948. 421 J822

4654 DEAY, H. O., and ULMAN, P. T. DDT as a summer spray against European elm scale [*Gossyparia spuria*]. *J. Econ. Ent.* 41: 506. June 1948. 421 J822

4655 DELONG, D. M., and SEVERIN, H. H. P. Characters, distribution, and food plants of leafhopper species in *Thamnotettix* group. *Hilgardia* 18: 185-199. Ref. Apr. 1948. 100 C12H

Discussion of *Idiodonus* spp., *Colladonus* spp., and *Friscanonus* spp.

4656 DENNING, D. G. The crested wheat bug [*Labops hesperius*]. *Wyo. Agr. Expt. Sta. C.* 33, 2 p. May 1948. 100 W99

4657 DIONNE, L. A. Field identification of potato aphids. *Canad. Ent.* 79: 191-193. Sept./Oct. 1947. 421 C16

Also in Canada. *Sci. Serv. Div. Ent. Processed P.* 77, 5 p. Ottawa, 1948. 423.92 C16P

*Macrosiphum solanifolii*, *Myzus persicae*, *M. convolvuli*, *Aphis abbreviata*.

4658 DRAKE, C. J. New genera and species of Tingidae (Hemiptera). *Wash. Biol. Soc. Proc.* 61: 149-156. Sept. 3, 1948. 500 W272

New spp. in: *Xenotingis*; *Lembella*; *Baeochila*; *Perissonemia*; *Habrochila*; *Baeotingis*; *Oncophysa*; *Galeatus*. Also new genera: *Ogygotingis*; *Gitava*, *Bunotingis*; *Onymochila*.

4659 DUDLEY, J. E., JR., BRONSON, T. E., and STONE, P. V. Comparative effectiveness of three types of DDT dust mixtures against pea aphids [*Macrosiphum pisi*]. *J. Econ. Ent.* 41: 518-519. June 1948. 421 J822

4660 EARLE, K. V. Injuries produced by tropical "water-beetles." *Roy. Soc. Trop. Med. & Hyg. Trans.* 42(1): 101-104. July 1948. 448.9 R813

*Lethocerus camposi*, *L. annulipes*, *Belostoma boops*.



- 4661 FROST, S. W. The leafhopper *Cicadella stellulata* on cherry. *J. Econ. Ent.* 41: 513-514. June 1948. 421 J822
- 4662 HAMILTON, D. W. Pear psylla [*Psylla pyricola*] control with dormant sprays. *J. Econ. Ent.* 41: 443-445. June 1948. 421 J822
- 4663 HESLOP-HARRISON, G. Observations on the British Psyllidae. II. A preliminary note on the *Psylla sorbi-mali-peregrina* complex of the homopterous family Psyllidae; an alleged instance of poecilogony. *Ent. Monthly Mag.* 9: 199-202. Sept. 1948. 421 En86
- 4664 HOFFERBERT, W. Pfirsichblattlaus [*Myzus persicae*] und viröser kartoffelabbau. *Landpost* 4(10): 3-4. May 25, 1948. 18 L2329
- 4665 HOFFMAN, A., and VARGAS, L. Parahesperoctenes hechti n. gen. n. sp., de Venezuela. (Hemiptera: Polycetidae). *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 8: 219-228. Sept. 1947. 449.9 M572
- 4666 KAUSARI, M. Les cochenilles nuisibles aux arbres fruitiers en Iran. (In Persian.) *Iran. Dépt. Gén. de la Protect. des Plantes. Lab. Ent. et Phytopath. Appl.* 5: 44-51. (To be cont.) Sept. 1947. 464.9 P432  
French summary, p. 16-17.
- 4667 KIRIUKHIN, G. Quelques Aleurododea de l'Iran. (In Persian.) *Iran. Dépt. Gén. de la Protect. des Plantes. Lab. Ent. et Phytopath. Appl.* 5: 22-28. Sept. 1947. 464.9 P432  
French summary, p. 8-10.
- 4668 KLEIN, K. Die "weisse fliege [*Trialeurodes vaporariorum*]." *Gart.-Z. Illus. Flora* 71: 119. Aug. 1948. 80 G1991
- 4669 LARSEN, O. *Ranatra linearis* L. in Schweden. *Opuscula Ent.* 12: 144-150. Ref. 1947. 421 Op7
- 4670 LINDEMANN, C. Eiweissstoffwechsel bei den blattläusen. *Naturwissenschaften* 34: 26. 1947. 474 N213  
*Cryptomyzus ribis*, *Macrosiphum koehleri* and *Neomyzus circumflexus*.
- 4671 LINN, M. B., APPLE, J. W., and ARNOLD, C. Y. Leafhopper [*Empoasca fabae*] control with DDT in relation to length of season, quality and yield of seventeen potato varieties. *Amer. Potato J.* 25: 315-328. Ref. Sept. 1948. 75.8 P842
- 4672 MASPOLI, A. O. *Margarodes vitium* Giard. *Vinos, Viñas y Frutas* 44(514): 51-52, 55-57. (To be cont.) July 1948. 9 Ag89
- 4673 MENDES, L. O. T. Meiosis of *Dysdercus mendesi* Bloete (1937). Hemiptera, Pyrrhocoridae. (In Portuguese.) *Bragantia* 7: 243-256. Nov./Dec. 1947. 102.5 B73Tb  
English summary.
- 4674 MENECHINI, M. Experiments on the transmission of the disease "tristeza" of citrus by the black louse of orange (*Aphis tavaresi*). (In Portuguese.) *Biologico* 14: 115-118. May 1948. 442.8 B529  
English summary.
- 4675 MUNGER, F. Body-temperature measurements of the California red scale [*Aonidiella aurantii*]. *J. Econ. Ent.* 41: 422-423. June 1948. 421 J822
- 4676 MUNGER, F., and CRESSMAN, A. W. Effect of constant and fluctuating temperatures on the rate of development of California red scale [*Aonidiella aurantii*]. *J. Econ. Ent.* 41: 424-427. Ref. June 1948. 421 J822
- 4677 OSBURN, M. R., and MATHIS, W. Effect of DDT on Florida red scale [*Chrysomphalus aonidum*] populations. *J. Econ. Ent.* 41: 454-456. June 1948. 421 J822
- 4678 OSSIANNILSSON, F. On the sound-production of the females of certain auchenorrhynchous Homoptera. (A preliminary note). *Ent. Tidskr.* 69: 125-126. 1948. 421 En891
- 4679 PETTY, F. W. The cochineal [*Dactylopius opuntiae*] and its control in spineless cactus plantations. *Farming So. Africa* 23: 425-431. June 1948. 24 So842
- 4680 PIZA JOR., S. DE T. Behavior of the sexual chromosomes of *Dysdercus mendesi* in the second division of the spermatocytes. (In Portuguese.) *Bragantia* 7: 269-271. Nov./Dec. 1947. 102.5 B73Tb
- 4681 PUISSEUR, C. Trois méthodes de chasse aux Hétéroptères (Rhynchotes). *Entomologiste* 4: 61-63. Mar./Apr. 1948. 421 En814
- 4682 RATH. Die gallenlaus der rebe [*Phylloxera vastatrix*]. *Gart.-Z. Illus. Flora* 71: 120-121. Aug. 1948. 80 G1991
- 4683 SCHILDER, F. A. Zur biologie der reblaus-rassen. *Züchter* 17/18: 413-415. Oct./Dec. 1947. 442.8 Z8  
*Phylloxera vitifoliae* and *P. vastatrix*.
- 4684 SEVERIN, H. H. P. Transmission of California aster-yellow virus by leafhopper species in *Thamnotettix* group. *Hilgardia* 18: 201-216. Ref. Apr. 1948. 100 C12H  
Species of *Idiodonus*, *Colladonus*, and *Friscanonus* are vectors.
- 4685 SINGH, K. The vasiform orifice of larval Aleurodidae. *Cur. Sci.* 17: 220. July 1948. 475 Sci23
- 4686 SMITH, W. A. Control of the banana aphid [*Pentalonia nigronervosa*]. *Queensland Agr. J.* 66: 351-352. June 1948. 23 Q33
- 4687 STRAWINSKA, J. Experiments on the action of "karbolin" on the larvae *Lecanium corni* Bouché. (In Polish.) *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E* 2: 209-222. Ref. 1947. 512 L96Ae  
English summary.
- 4688 SUBRAMANYAM, V. K. The fluted scale [*Icerya purchasi*]. *Planters' Chron.* 43: 374-375. Aug. 1, 1948. 22 P693  
Control by *Rodolia cardinalis*.
- 4689 SYLVESTER, E. S. Aphid control on potatoes; experimental plots near Arvin and Shafter used to test effectiveness of insecticides. *Calif. Agr. [Calif. Sta.]* 2(9): 14. Sept. 1948. 100 C12Cag
- 4690 WITTE, A. *Gilletteella cooleyi* (Gill.) (Hem. Aphidina) in Sweden. (In Swedish.) *Opuscula Ent.* 12: 172. 1947. 421 Op7
- 4691 WYGODZINSKY, P. On a new genus and a new species [*Biturannus reuteri*] of Schizopterinae of Brazil (Cryptostemmatidae, Hemiptera). (In Portuguese.) *B. de Ent. Venezol.* 6(1): 25-35. Mar. 31, 1947. 421 B63
- 4692 YOTHERS, M. A., and CARLSON, F. W. Effect of DDT on the green peach aphid [*Myzus persicae*] and its coccinellid predators [*Hippodamia convergens*, *Coccinella transversoguttata*]. *J. Econ. Ent.* 41: 515-516. June 1948. 421 J822

## HYMENOPTERA

- 4693 ANDER, K. Notes on aculeate Hymenoptera. 1-2. (In Swedish.) *Opuscula Ent.* 12: 119-126. 1947. 421 Op7  
1. *Scolia hirta* Schrk. in Scandinavia. 2. Three rare ants [*Strongylognathus testaceus*, *Stenamma westwoodi*, *Polyergus rufescens*].
- 4694 BLAIR, K. G. The oak gall-flies (Hym., Cynipidae) and the law of priority. *Ent. Monthly Mag.* 84: 237-239. Oct. 1948. 421 En86
- 4695 BLAUCH, B. M. Do diploid males occur in the chalcidoid wasp *Melittobia*? (Abs.) *Anat. Rec.* 101: 725-726. Aug. 1948. 447.8 An1
- 4696 BLAUCH, B. M. Selection-induced free oviposition by unmated females of the chalcidoid wasp *Melittobia*. (Abs.) *Anat. Rec.* 101: 725. Aug. 1948. 447.8 An1
- 4697 BONGIOVANNI, G. C. *Hoplocampa testudinea* Klug. (In Italian.) *Riv. di Fruttic.* 10: 90-93. Ref. July 1948. 80 R52
- 4698 BRIAN, M. V., and BRIAN, A. D. Nest construction by queens of *Vespula sylvestris* Scop. (Hym., Vespidae). *Ent. Monthly Mag.* 9: 193-198. Sept. 1948. 421 En86
- 4699 BROEKHUYSEN, G. J. The brown house ant (*Pheidole megacephala*, Fabr.) in South Africa. *Union So. Africa. Dept. Agr. & Forestry B.* 266, 40 p. Ref. Johannesburg, Gray, 1948? 24 So84P
- 4700 BROWN, W. L., JR. A preliminary generic revision of the higher Dacetini (Hymenoptera: Formicidae). *Amer. Ent. Soc. Trans.* 74: 101-129. June 1948. 420 P53  
Includes the new genera: *Smithistruma* (with *Smithistruma*, *Wessonistruma*, *Weberistruma*, and *Serrastruma*, n.sgen.); *Neostruma*; *Dorisidris*; *Alistruma*; *Mesostruma*; *Hexadaceton* (with *H. frosti* n. sp.); *Miccostruma*; *Clarkistruma*.
- 4701 BURR, M. Are ants attracted by bright colours? *Ent. Rec. & J. Variation* 60: 95. Sept. 1948. 421 En89



4702 CHAMBERS, V. H. The correct name of the species described as *Pompilus cardui* Perkins, 1917 (Hym., Pompilidae). Ent. Monthly Mag. 84: 232-234. Ref. Oct. 1948. 421 En86

*Anoplius caviventris* (Aurivillius).

4703 DONISTHORPE, H. A fourth instalment of the Ross collection of ants from New Guinea. Ann. & Mag. Nat. Hist. 1: 131-143. Sept. 17, 1948. 410 An77

Includes n. spp. in *Aenictus*; *Euponera*; *Pheidologeton*; *Triglyphothrix*; *Polyrhachis*.

4704 DREISBACH, R. R. A new species of the genus *Tachytes* [*T. quadrifasciatus*] from Michigan (Hymenoptera: Larridae). Ent. News 59: 151-153. June 1948. 421 En88

4705 EVANS, H. E. Biological notes on two species of *Anoplius* (Hymenoptera: Pompilidae). Ent. News 59: 180-184. July 1948. 421 En88  
A. *ithaca*; A. *marginatus*.

4706 HAMILTON, C. C. The pine oak sawfly [*Caliroa lineata*]. N. J. Fed. Shade Tree Comms. Monthly B. 21(9): 2-5. Sept. 1948. 99.8 Sh1

4707 HICKS, S. D. An unusual nesting site for the ant *Lasius flavus nearcticus* Wheeler. Canad. Ent. 79: 170-171. Sept./Oct. 1947. 421 C16

4708 HINCKS, W. D. Helcon tardator Nees (Hym., Braconidae) in Britain. Ent. Monthly Mag. 84: 228. Oct. 1948. 421 En86

4709 HYMAN, J., & COMPANY. Direct control of ants - chiggers - ticks [with] chlordane. Hymen, Julius, & Co., Tech. Sup. 202, 4 p. Denver, 1948. 423.9 H99

4710 INGHAM, A. G. Save the bumble bees. Organic Gard. 13(5): 49. Nov. 1948. 56.8 Or3

4711 JOHNSON, R. A. Studies of ant bird aggregations attending the swarm raids of army ants [*Eciton* sp.] on Barro Colorado Island. (Abs.) Anat. Rec. 101: 695-696. Aug. 1948. 447.8 An1

4712 KROMBEIN, K. V. The identity of the male of *Pseudomethoca similima* (Smith). (Hymenoptera: Mutillidae). Ent. News 59: 187-189. July 1948. 421 En88

4713 LEJEUNE, R. R., and FILUK, B. The effect of water levels on larch sawfly [*Pristiphora erichsonii*] populations. Canad. Ent. 79: 155-160. Sept./Oct. 1947. 421 C16

4714 MANIS, H. C. Mistake to discount wild bees. Oreg. Farmer 71: 727. Oct. 7, 1948. 6 Or32  
Bees other than *Apis mellifera* as pollinators.

4715 MARTIN, A., JR. Genetic evidence for speciation in *Habrobracon juglandis* [i.e. *Microbracon hebetor*] Ashmead. Pa. Acad. Sci. Proc. 22: 64-67. 1948. 500 P383

4716 MAVROMOUSTAKIS, G. A. Further contributions to our knowledge of the bees (Hymenoptera Apoidea) of Palestine. Ann. & Mag. Nat. Hist., ser. 12, 1: 213-224. Mar. 1948. 410 An77

Includes *Osmia wahrmani* and *O. bytinskii* n. spp.

4717 MAVROMOUSTAKIS, G. A. New and little-known bees of the subfamily Anthidiinae (Apoidea). III. Ann. & Mag. Nat. Hist., ser. 12, 1: 171-177. Mar. 1948. 410 An77

Includes *Anthidium longstaffi* n. sp.

4718 MAVROMOUSTAKIS, G. A. New bees of the genus *Eriades* (Hymenoptera Apoidea). Ann. & Mag. Nat. Hist., ser. 12, 1: 177-181. Mar. 1948. 410 An77

4719 NIXON, G. E. J. A revision of the European *Dacnusiini* (Hym., Braconidae, *Dacnusiinae*). Ent. Monthly Mag. 9: 207-224. (Cont.) Sept.-Oct. 1948. 421 En86

Includes n. spp. in *Rhizarcha*.

4720 PATE, V. S. L. A new *Isodontia* [*I. poeyi*] from Cuba (Hymenoptera: Sphecidae: Chlorionini). Ent. News 59: 185-187. July 1948. 421 En88

4721 PROVAGLIO, C. "Gatole" still in the rape [*Athalia rosae* (?)]. (In Italian.) Agr. Bresciana 1(34): 1. Aug. 25, 1948. 16 Ag89

4722 RUIZ CASTRO, A. Como pueden combatirse las hormigas. Surco [Madrid] 7(76): 3-4. June 1948. 15 Su7

4723 SCHENK, P. J. Slug shaped false caterpillars. (In Flemish.) Cult. en Handel 14: 556-558. Sept. 1948. 80 C892

Sawfly larvae.

4724 SPIETH, H. T. Notes on a colony of *Polistes fuscatus hunteri* Bequaert. N. Y. Ent. Soc. J. 56: 155-169. Sept. 1948. 420 N48J

4725 TIMBERLAKE, P. H. Additions and corrections to the list of Nearctic species of *Dianthidium* (Hymenoptera, Apoidea). N. Y. Ent. Soc. J. 56: 149-153. Sept. 1948. 420 N48J

Includes 3 n. spp. and forms.

4726 TWINN, C. R. The poets' Hymenoptera. III. Bumble bees, the ichneumons, and the gall wasps. Pests 16(10): 20, 22. Oct. 1948. 449.8 Ex8

4727 VALDES DE LA PAZ, A. Guerra contra las arrieras; la arriera y el medio de combatirla. Rev. de Agr., Com. e Indus. [Panama] 7(84): 28-29. Aug. 1948. 8 R3291

*Atta* sp.

4728 WEBER, N. A. A revision of the North American ants of the genus *Myrmica* Latreille with a synopsis of the Palearctic species. II. Ent. Soc. Amer. Ann. 41: 267-308. June 1948. 420 En82

See also Apiculture and *Apis mellifera*.

## LEPIDOPTERA

4729 BACON, O. G., MICHELbacher, A. E., and HART, W. H. Catalina cherry moth [*Melissopus latiferreanus*] attacks walnuts. Diamond Walnut News 30(5): 10. Sept. 1948. 94.68 D34

4730 BEARD, R. L. Experimental observations on hemolymph coagulation in two species of insects [*Galleria mellonella*, *Popillia japonica*]. (Abs.) Anat. Rec. 101: 736-737. Aug. 1948. 447.8 An1

4731 BERGOLD, G. Bündelförmige ordnung von polyederviren. Z. f. Naturf. 3b: 25-26. Jan./Feb. 1948. 474 Z3

Observations on material from *Porthetria dispar* and *Lymantria monacha*.

4732 BERGOLD, G. Die isolierung des polyedervirus und die natur der polyeder. Z. f. Naturf. 2b: 122-143. Ref. Mar./Apr. 1947. 474 Z3

In *Lymantria monacha*, *Porthetria dispar*, and *Bombyx mori*.

4733 BISSELL, T. L. Protecting corn from corn borer [*Pyrausta nubilalis*] and Japanese beetle [*Popillia japonica*]. Md. Agr. Col. Ext. C. 153, 6 p.-folder. May 1948. 275.29 M36L

4734 BLACKIE, J. E. H. Suburban Lepidoptera. Entomologist 81: 207-208. Sept. 1948. 421 En8  
Ecological factors affecting insect populations near cities.

4735 BORDEN, A. D., and MADSEN, H. F. Bud moth [*Spilonota ocellana*] on prunes; parathion found to be highly toxic to pest of increasing economic importance. Calif. Agr. [Calif. Sta.] 2(10): 11. Oct. 1948. 100 C12Cag

4736 BORDEN, A. D. Orange worm [*Argyrotaenia citrana*] on deciduous fruits. Calif. Farmer, South. Ed. 189: 248. Sept. 25, 1948. 6 C126A

4737 BORDEN, A. D., and MADSEN, H. F. Parathion found most effective spray in controlling bud moth [*Spilonota ocellana*] on prunes. Sunsweet Standard 32(5): 6. Oct. 1948. 286.83 Su7

4738 BRANDT, H. Über den einfluss der kopulation auf die eiproduktion und elablage von schmetterlingsweibchen. Z. f. Naturf. 2b: 301-308. July/Aug. 1947. 474 Z3

Observations on *Bupalus piniarius*, *Ephestia kühniella*, etc.

4739 BROWN, A. W. A., and others. Laboratory assessment of organic insecticides for control of certain lepidopterous larvae. Canad. Ent. 79: 161-166. Sept./Oct. 1947. 421 C16

W. W. Hopewell, B. J. Wenner, and H. McDonald, joint authors.

Tests with *Agrotis orthogonia*, *Heliothis ononis*, and *Choristoneura fumiferana*.

4740 BRUNSON, M. H., and ALLEN, H. W. Oriental fruit moth [*Grapholitha molesta*] cocoon parasites. J. Econ. Ent. 41: 446-450. June 1948. 421 J822

4741 BRYK, F. *Catopta brandti* m., eine neue cosside aus Persien. (Lep. Cossidae). Opuscula Ent. 12: 173-174. 1947. 421 Op7

4742 BRYK, F. Neue formen von *Eudia pavonia* (L.) aus Schweden. (Lep.: Saturniidae.) Ent. Tidskr. 69: 142-144. 1948. 421 En891

4743 CAIRASCHI, E. A. La lutte contre le carpocapse [*Carpocapsa pomonella*] ou ver des pommes et des poires. Arbres et Fruits 30: 26-29. Aug. 1948. 80 Ar1



- 4744 CARRE, G. Nos récoltes de betteraves risquent-elles d'être compromises par la teigne [Gnorimoschema ocellatella]? Potasse 22: 122-125. July/Aug 1948. 57.8 P84
- 4745 CARRUTH, L. A., and HOWE, W. L. Factors affecting use and phytotoxicity of DDT and other insecticides for squash borer [*Melittia cucurbitae*] control. J. Econ. Ent. 41: 352-355. June 1948. 421 J822
- 4746 CASPARI, E. Genetic and environmental conditions affecting a behavior trait in *Ephestia kuehniella*. (Abs.) Anat. Rec. 101: 690. Aug. 1948. 447.8 An1
- 4747 CLAVERIE, P. A. La processionnaire du pin [*Thaumetopoea pityocampa*]. Terre d'Oc 30: 284-288. July 1948. 14 Ar5
- 4748 COCKAYNE, E. A. British *Colias* alfacariensis. Entomologist 81: 204. Sept. 1948. 421 En8
- 4749 COMSTOCK, J. A. The mature larva and pupa of *Arctonotus terlooii* Hy. Edw. South. Calif. Acad. Sci. B. 47: 49-51. May/Aug. 1948. 500 So8
- 4750 CORLISS, J. M. Gypsy moth [*Porthetria dispar*] control with DDT. New England Water Works Assoc. J. 62: 191-195. Sept. 1948. 292.9 N44
- 4751 CUNNINGHAM, D. Butterflies and moths of the Solway area. Additions and notes on some other species. Dumfriesshire and Galloway Nat. Hist. and Antiquarian Soc. Trans. and J. Proc. (ser. 3) 25: 69-75. 1948. 501 D89
- 4752 DE WORMS, C. G. M. *Drepana harpagula*, Esp. (sicula, Hübner). A short review of its past history and present status. Entomologist 81: 205-206. Sept. 1948. 421 En8
- 4753 DOWDEN, P. B., BUCHANAN, W. D., and CAROLIN, V. M. Natural-control factors affecting the spruce budworm [*Choristoneura fumiferana*]. J. Econ. Ent. 41: 457-464. Ref. June 1948. 421 J822
- 4754 DOWNES, J. A. Forgotten Scottish butterflies. Ent. Monthly Mag. 9: 204-206. Ref. Sept. 1948. 421 En86
- 4755 DOWNES, J. A. Some Lepidoptera of western Scotland. Ent. Monthly Mag. 9: 203-204. Sept. 1948. 421 En86
- 4756 FERRAR, M. L. The butterflies of the Andamans and Nicobars. Bombay Nat. Hist. Soc. J. 47: 470-491. Apr. 1948. 513 B63
- 4757 FORD, E. B., and DOWDESWELL, W. H. The genetics of habit in the genus *Colias*. Entomologist 81: 209-212. Sept. 1948. 421 En8
- 4758 FOX, R. M. Two new Ithomiinae in the Schaus collection (Lepidoptera: Nymphalidae). Wash. Acad. Sci. J. 38: 315-316. Sept. 15, 1948. 500 W276J
- Pteronymia schausi* and *Hypoleria meridana*.
- 4759 FRAZIER, N. W., and BARNES, D. F. Experiments for control of the grape leaf folder [*Desmia funeralis*] in California. J. Econ. Ent. 41: 441-442. June 1948. 421 J822
- 4760 FREZAL, H. Sur l'action insecticide de l'octochloronaphtalène. Acad. d'Agr. de France. Compt. Rend. 34: 656-660. May 19/26, 1948. 14 P215Bc
- Chlordane tested against *Carpocapsa pomonella*, *Polychrosis botrana*, and *Prodenia litura*.
- 4761 GÄBLER, H. Die nonnentachine [*Parasetigena segregata*] in ihrer beziehung zur chemischen nonnenbekämpfung [*Lymantria monacha*]. Z. f. Naturf. 3b: 61-63. Ref. Jan./Feb. 1948. 474 Z3
- 4762 GARDNER, F. W. *Psodos coracina* and *Nycterosea obstipata*. Entomologist 81: 222. Sept. 1948. 421 En8
- 4763 GODDARD, M. J. *Aglais urticae* courting *Nymphalis* [i.e. *Vanessa*] io. Entomologist 81: 220. Sept. 1948. 421 En8
- 4764 GREEN RIVER PROJECT WORK COMMITTEE. The Green River Project for the study of forest management in relation to spruce budworm [*Choristoneura fumiferana*] control. Pulp & Paper Mag. Canada 49(11): 136, 138, 140, 142, 144. Oct. 1948. 302.8 P96
- 4765 HALLEMANS, A. Control of *Acrolepia assectella* with DDT preparations. (In Flemish.) Cult. en Handel 14: 499. Aug. 1948. 80 C892
- 4766 HANA, K. September joy in house and garden. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 59: 355-360. Sept. 1948. 12 N282
- Chiefly on butterflies.
- 4767 HYMAN, J., & COMPANY. Direct control of clothes moths, carpet beetles, and other pests attacking stored products with chlordane (refined). Hyman, Julius, & Co., Tech. Sup. 206, 4 p. Denver, 1948. 423.9 H99
- 4768 INKILÄ, O. Damages caused by grapholitha (*Grapholitha* [i.e. *Laspeyresia*] *nigricana* Steph.) to field peas. (In Finnish.) Suomen Maataloustiet. Seura, Maataloustiet. Aikakausk. 20: 58-66. 1948. 20 Su7M
- English summary  
In Finland.
- 4769 JANNONE, G. Spread of the Oriental fruit moth (*Grapholitha molesta*) in Sarzana Territory. (In Italian.) Humus 3(8): 10-12. Aug. 1947. 16 H88
- 4770 JOHANSSON, W. I., ROSENE, L., and WARNER, C. N. The effects of a miscible oil, a di-nitrol compound, and D.D.T. emulsion upon the egg masses of the eastern tent caterpillar *Malacosoma americana* L. Canad. Ent. 79: 166-167. Sept./Oct. 1947. 421 C16
- 4771 KULASH, W. M. New insecticides for corn earworm [*Heliothis armigera*] control. J. Econ. Ent. 41: 387-389. June 1948. 421 J822
- 4772 LE CHARLES, L. Supplément à l'article sur les Papilio de France. Entomologiste 4: 65-66. Mar./Apr. 1948. 421 En814
- 4773 LEE, H. T. Y. A comparative morphological study of the prothoracic glandular bands of some lepidopterous larvae with special reference to their innervation. Ent. Soc. Amer. Ann. 41: 200-205. June 1948. 420 En82
- 4774 LEVETT, R. J. R. Butterfly collecting in Balcombe and East Sussex in 1947. Ent. Rec. & J. Variation 60: 95-97. Sept. 1948. 421 En89
- 4775 LORD, F. A. Australian moth [*Coscinocera hercules*] is world's largest. J. Ent. & Zool. 40: 45-46. Sept. 1948. 421 P77
- 4776 LYNE, M. A. Notes on the butterflies of the Tiverton area. Blundell's School Sci. Soc. Mag. 2: 6-10. 1947. 410 B62
- 4777 MCLINTOCK, T. F. Evaluation of tree risk in the spruce-fir region of the Northeast. Iowa State Col. J. Sci. 22: 415-419. July 1948. 470 I09
- Control of *Choristoneura fumiferana*.
- 4778 MICHELBAACHER, A. E., MIDDLEKAUFF, W. W., and AKESSON, N. B. Caterpillars on tomatoes. Food Packer 29(11): 46, 48, 50. Oct. 1948. 286.83 C165
- 4779 MONRO, H. A. U. The durra stem borer *Sesamia cretica* Led. a new problem in imported European broom corn. Canad. Ent. 79: 180-189. Ref. Sept./Oct. 1947. 421 C16
- 4780 MUNDINGER, F. G. Beware! The raspberry fruitworm [*Byturus rubi*]. Farm Res. [N. Y. State Sta.] 14(4): 14. Oct. 1948. 100 N48A
- 4781 NORDSTRÖM, F. New butterflies for the Swedish fauna, and some others. (In Swedish.) Opuscula Ent. 12: 159-171. Ref. 1947. 421 Op7
- 4782 OWEN, D. F. Further notes on *Colias hyale* wintering in Kent. Entomologist 81: 220. Sept. 1948. 421 En8
- 4783 PARENICIA, C. R., JR., and EWING, K. P. Bollworm [*Heliothis armigera*] control with chlorinated camphene, DDT, and mixtures of benzene hexachloride and DDT. J. Econ. Ent. 41: 406-409. June 1948. 421 J822
- 4784 PARSONS, R. E., and CANTLIE, SIR K. The butterflies of the Khasia and Jaintia Hills, Assam. Bombay Nat. Hist. Soc. J. 47: 498-522. Apr. 1948. 513 B63
- 4785 PETERSEN, B. The heat rigor temperature of Swedish mountain Lepidoptera. Ent. Tidskr. 69: 135-141. Ref. 1948. 421 En891
- 4786 RICHARDSON, A. *Jaspidia deceptor*—a species new to Britain. Entomologist 81: 221. Sept. 1948. 421 En8
- 4787 RISLER, H. Kernvolumenänderungen in der raupenepidermis von *Ptychopoda seriata*. Z. f. Naturf. 3b: 129-131. Mar./Apr. 1948. 474 Z3
- 4788 ROMANNE-JAMES, MRS. C. Madame white butterfly [*Pieris rapae*]. Guild Gard. 23(9): 8. Sept. 1948. 80 G94
- 4789 RUSSELL, A. G. B. A *Plusia* [*P. limbirena*] new to Britain. Entomologist 81: 201-202. Sept. 1948. 421 En8
- 4790 SCHMITZ, G. La pyrale du caféier robuste *Dichrocrocis crocodora* Meyrick. B. Agr. du Congo Belge 39: 571-580. Sept. 1948. 24 K83
- 4791 SCOTT, H. A congregation of common blues (*Lycaena icarus* Rott.). Ent. Monthly Mag. 9: 206. Sept. 1948. 421 En86
- 4792 SEVASTOPULO, D. G. A day's collecting at Athi River, Kenya Colony—15. VIII. 48. Ent. Rec. & J. Variation 60: 97-100. Sept. 1948. 421 En89
- Lepidoptera.



- 4793 SEVASTOPULO, D. G. *Dictyoploca simla* Westwood (Lep. Saturniidae), with special reference to ssp. *jaintiensis* Watson. *Entomologist* 81: 222-223. Sept. 1948. 421 En8
- 4794 SEVASTOPULO, D. G. The early stages of Indian Lepidoptera. XX. Bombay Nat. Hist. Soc. J. 47: 458-469. Apr. 1948. 513 B63
- 4795 SEVASTOPULO, D. G. On the food-plants of Indian Geometridae and Pyralidae. Bombay Nat. Hist. Soc. J. 47: 492-498. Apr. 1948. 513 B63
- 4796 SHEPHERD, S. *Lysandra coridon* ab. *obsoleta* bred. *Entomologist* 81: 212. Sept. 1948. 421 En8
- 4797 STEPHENS, R. M. Codling moth [*Carpocapsa pomonella*] control; D.D.T. trials in the Goulburn Valley, Victoria. *Fruit World & Mkt. Grower* 49(9): 11. Sept. 6, 1948. 80 F948
- 4798 SUN, Y. P., NORTON, L. B., and RAWLINS, W. A. Comparison of toxic actions of chlordane, DDT, and gamma-benzene hexachloride to the southern armyworm [*Prodenia eridania*]. *J. Econ. Ent.* 41: 366-369. June 1948. 421 J822
- 4799 TEALE, E. W. Scourge of the monarch [*Danaus plexippus*]; the deadly larva of a fly [*Achaetoneura archippivora*] brings tragedy to its powerless host. *Nat. Hist.* 57: 356-359. Oct. 1948. 500 N483J
- 4800 TEMPLE, V. Cross-pairing of *Maniola tithonus* and *Aphantopus hyperantus*. *Entomologist* 81: 219. Sept. 1948. 421 En8
- 4801 TOLEDO, A. A. DE. Contribution for the study of *Leucinodes elegantalis* Guén., pest of the tomato. (In Portuguese.) *Biologico* 14: 103-108. May 1948. 442.8 B529
- 4802 TURNER, H. J. The British Noctuae [i. e. Phalaenidae] and their varieties. IV. (Cont.) *Ent. Rec. and J. Variation* 60(9, sup.): 25-32. Sept. 1948. 421 En89
- 4803 VAN LEEUWEN, E. R. Attractiveness of pine-tar oil in baits for codling moth [*Carpocapsa pomonella*] control. *J. Econ. Ent.* 41: 345-351. June 1948. 421 J822
- 4804 VAN SON, G. A new species of *Mylothris* Hb. [*M. carcassoni*] (Lepid., Rhop., Pieridae) from Southern Rhodesia. *Entomologist* 81: 203-204. Sept. 1948. 421 En8
- 4805 VOUTE, A. D. Observations on the brown-tail moth [*Nygmyia phaeorrhoea*]. (In Dutch.) *Nederland. Boschbouw-Tijdschr.* 20: 242-243. Aug. 1948. 99.8 N28
- 4806 WELLINGTON, W. G., and HENSON, W. R. Notes on the effects of physical factors on the spruce budworm, *Choristoneura fumiferana* (Clem.). *Canad. Ent.* 79: 168-170. Sept./Oct. 1947. 421 C16
- 4807 WRESSELL, H. B. Control of the European corn borer [*Pyrausta nubilalis*] in sweet corn. *Canada. Sci. Serv. Div. Ent. Processed P.* 76, 3 p. Ottawa, 1948. 423.92 C16P
- See also Sericulture and the Silkworm.
- ### ORTHOPTERA
- 4808 BARRON, E. S. G., and TAHMISIAN, T. N. The metabolism of cockroach muscle (*Periplaneta americana*). *J. Cell. & Compar. Physiol.* 32(1): 57-76. Ref. Aug. 1948. 444.8 J822
- 4809 CATALA, R. Sur une grave menace que fait peser sur les cocoteraies des Nouvelles-Hébrides: l'extension de *Graeffea cocophaga* New. *Rev. Internatl. de Bot. Appl. et d'Agr. Trop.* 28: 354-357. July/Aug. 1948. 26 R323
- 4810 CHAPMAN, K. H. On the type locality of *Enyalipsis durandi* Lucas. *Ann. & Mag. Nat. Hist.* 1: 143-144. Sept. 17, 1948. 410 An77
- 4811 DAVATCHI, A. *Locusta migratoria* L. attaquant les régions nord de l'Iran. (In Persian.) *Iran. Dépt. Gén. de la Protect. des Plantes. Lab. Ent. et Phytopath. Appl.* 5: 52-57. Sept. 1947. 464.9 P432
- French summary, p. 18-19.
- 4812 FAVARD, P. A propos des grillons de Bordeaux. *Prog. Agr. et Vitic.* 1948: 15. July 4/11, 1948. 14 P94
- 4813 GRASSHOPPER control in Saskatchewan; prepared by the Committee on Insect Pests of the Guide to Farm Practice in Saskatchewan. *Canada. Sci. Serv. Div. Ent. Processed P.* 75, 5 p. Ottawa, 1948. 423.92 C16P
- A. P. Arnason, chairman.
- 4814 GRIFFITHS, J. T., JR., and KING, J. R. Comparative compatibility and residual toxicity of organic insecticides as based on grasshopper [*Schistocerca americana*] control. *J. Econ. Ent.* 41: 389-392. June 1948. 421 J822
- Tests with chlordane, toxaphene, benzene hexachloride, and parathion.
- 4815 HAMMAN, R. E. Factors involved in poisoning German roaches [*Blattella germanica*] by exposing them to surfaces treated with chlorinated hydrocarbons [DDT, chlordane, benzene hexachloride, toxaphene]. *J. Econ. Ent.* 41: 516-517. June 1948. 421 J822
- 4816 HAZARD, F. O. Roach powder evaluation. *Soap & Sanit. Chem.* 24(9): 125, 127. Sept. 1948. 307.8 S012
- 4817 HOLM, B. Grasshoppers from Torne Lappmark. (In Swedish.) *Opuscula Ent.* 12: 150. 1947. 421 Op7
- 4818 HYMAN, J., & COMPANY. Eradication of roaches and other industrial, institutional and household pests with chlordane (refined). Hyman, Julius, & Co., Tech. Sup. 204, 4 p. Denver, 1948. 423.9 H99
- 4819 JAHN, T. L., and KOEL, B. S. The effect of temperature on the frequency of beat of the grasshopper [*Melanoplus differentialis*] heart. *Ent. Soc. Amer. Ann.* 41: 258-266. Ref. June 1948. 420 En82
- 4820 KELSHEIMER, E. G. El DDT como control para la cucaracha. *Palmira. Estac. Agr. Expt. B. de Inform. Agropecuaria* 1579: 1-2. Feb. 24, 1948. 102.5 P18B
- 4821 MARCHIONATTO, J. B. Montevideo fué la cuna del movimiento antiacridiano. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 230: 2, 13. Aug. 5, 1948. 9.9 G15B
- 4822 PENA, F. DE LA. La plaga de langosta en España. *Siembra* 1948(7): 12-14. July 1948. 15 S11
- 4823 REHN, J. A. G. Replacement of two pre-occupied names of Tettrigidae (Orthoptera: Acridoidea). *Ent. News* 59: 154-155. June 1948. 421 En88
- Moluccasia for *Thymoites* Günther 1939, not Keyserling 1884; *Marshallacris* for *Barytettix* Günther 1939, not Scudder 1897.
- 4824 SCHARRER, B. Experimental studies on the prothoracic glands of *Leucophaea maderae* (Orthoptera). (Abs.) *Anat. Rec.* 101: 725. Aug. 1948. 447.8 An1
- 4825 TRESSENS, F. Note biologique sur *Clonopsis gallica* Charp. (Orth. Phasmidae). *Entomologiste* 4: 110. Mar./Apr. 1948. 421 En814
- ### SERICULTURE AND THE SILKWORM
- 4826 BERGOLD, G., and FRIEDRICH-FREKSA, H. Zur grösse und serologie des Bombyx-mori-polyeder-virus. *Z. f. Naturf.* 2b: 410-421. Nov./Dec. 1947. 474 Z3
- 4827 CONGRESSO NAZIONALE PER L'ECONOMIA SERICA, MILAN, 1947. *Atti [Proceedings]*. Milano, 1947. 287 p. 425.9 C764
- 4828 GLEISBERG, H. Die technik der desinfektion beim seidenbau. *Deut. Bauerntech.* 2(5/6): 32-34. May/June 1948. 58.8 D48
- 4829 GONZÁLEZ MARÍN, F. España en el VII Congreso Internacional de Sericultura. *Siembra* 1948(7): 42-43. July 1948. 15 S11
- 4830 HOLEC, E. Die bewertung der kokonernten. *Osterr. Kleintierzüchter* 1948: 426-427. Aug. 1948. 49 Os7
- 4831 HOLEC, E. Ist. seidenbau bloss zeitvertreib? *Osterr. Kleintierzüchter* 1948: 441-442. Sept. 1948. 49 Os7
- 4832 TONDU, P. Le problème séricole et l'Union Française. *Marseille Inst. Colon. Cahiers Colon.* (n. s.) 1948(8/9): 268-274. (Cont.) Aug./Sept. 1948. 286.8 M35
- ### SMALLER ORDERS
- 4833 ARKADAKSKII, V. P. Study of therapeutic effect of DDT in the control of lice on swine. (In Russian.) *Veterinariia* 25(3): 38-39. Mar. 1948. 41.8 V6426
- 4834 ASHDOWN, D., and WATKINS, T. C. Field studies on control of onion thrips [*Thrips tabaci*] in New York. *J. Econ. Ent.* 41: 378-382. June 1948. 421 J822



4835 BENOIST, R. Libellules transportées par un bateau. Entomologiste 4: 108. Mar./Apr. 1948. 421 En814

4836 BERTRAM, D. S., and ROBERTS, E. W. A technique for investigating the effectiveness of insecticides against *Damalinea* (*Bovicola*) *bovis* L., the biting louse of cattle. Roy. Soc. Trop. Med. & Hyg. Trans. 42 (1): 8-9. July 1948. 448.9 R813

4837 BROCK, S. L. New method of cattle louse control promises more profit for rangemen. Rec. Stockman 59(38): 6. Sept. 16, 1948. 286.85 D43

Single treatment with Pyrenone (piperonyl butoxide mixture) effective against *Haematopinus eurysternus* and other lice.

4838 BUSVINE, J. R. The 'head' and 'body' races of *Pediculus humanus* L. Parasitology 39(1/2): 1-16. Ref. July 1948. 448.8 P21

Genetic differences and hybridization between subspecies *humanus* and *corporis*.

4839 BUXTON, P. A. Experiments with mice and fleas [*Xenopsylla cheopis*]. I. The baby mouse. Parasitology 39(1/2): 119-124. July 1948. 448.8 P21

4840 CHAMPION, R. H. Factors affecting the distribution of the May-fly (*Ecdyonurus* sp.) in the Riverton area. Blundell's School Sci. Soc. Mag. 2: 38-42. 1947. 410 B62

4841 COOPER, R. S. One-shot application nets louse control in Wyoming cattle test. Rec. Stockman 59 (41): 9. Oct. 7, 1948. 286.85 D43

Pyrenone (piperonyl butoxide and pyrethrins) for control of *Haematopinus eurysternus*, etc.

4842 CROWCROFT, P. W. Notes on the occurrence of the nematode *Mermis nigrescens* Dujardin and its effect on the common earwig [*Forficula auricularia*] in Tasmania. Roy. Soc. Tasmania, Papers and Proc. 1947: 59-62. 514 H65

4843 EDDY, G. W., and BUSHLAND, R. C. Compounds more toxic than DDT to body lice [*Pediculus humanus corporis*]. J. Econ. Ent. 41: 369-373. June 1948. 421 J822

Benzene hexachloride, toxaphene, 2-pivalyl-1,3-indandione, chlordane.

4844 EDGAR, S. A., and KING, D. F. Comparative efficiency of several old and new insecticides in the control of lice on poultry and the effect of the body louse, *Eomenacanthus stramineus*, on egg production. (Abs.) Poultry Sci. 27: 659-660. Sept. 1948. 47.8 Am33P

4845 EDMUNDS, G. F., JR. A new genus of mayflies [*Traverella*] from western North America (*Leptophlebiinae*). Wash. Biol. Soc. Proc. 61: 141-148. Sept. 3, 1948. 500 W272

4846 EMERSON, K. C. A new Mallophaga [*Goniodes bonasus*] from a ruffed grouse. Kans. Ent. Soc. J. 21: 92-94. July 1948. 420 K13

4847 EMERSON, K. C. A species of Mallophaga from the sanderling. Ent. News 59: 178-179. July 1948. 421 En88

*Actornithophilus albus*, n. n. for *Colpocephalum spinulosum* minor.

4848 ESSICK, H. C. Murine typhus control programs. Ofic. Sanit. Panamer. B. 27: 715-718. Aug. 1948. 449.9 P192B

Spanish summary.

DDT used to control *Xenopsylla cheopis*, chief vector.

4849 GAINES, J. C., DEAN, H. A., and WIPPRECHT, R. Control of thrips [*Frankliniella tritici*] on cotton. J. Econ. Ent. 41: 510-512. June 1948. 421 J822

4850 GIL COLLADO, J. Los parásitos de las aves de corral. IV. Los piojillos o malofagos. Ganadería [Madrid] 6: 301-303. June 1948. 49 G15

4851 GUIMARÃES, L. L. Sobre algumas espécies do gênero *Polygenis* Jordan, 1939 (*Pulicidae*-*Suctorina*). Arq. de Zool. do Estado de São Paulo 5: 539-552. 1948. 410 Ar6

English summary.

Includes 3 n. spp. and forms.

4852 GURNEY, A. B. Notes on Nearctic Hemerobiidae, with descriptions of two new species [*Hemerobius neadelphus*; *Symphorobius beameri*] (*Neuroptera*). Ent. Soc. Amer. Ann. 41: 213-222. June 1948. 420 En82

4853 HARRIS, W. V. Report on a trial with D.D.T. and B.H.C. for the protection of timber against termites. East African Agr. J. 14: 49-50. July 1948. 24 Ea74

4854 JENKINS, C. F. H., and FORTE, P. N. The lucerne flea (*Sminthurus viridis* L.). West. Austral. Dept. Agr. J. (ser. 2) 25: 116-120. June 1948. 23 W52J

4855 MACCHIAVELLO, A. Siphonaptera de la costa sur-occidental de América (primera lista y distribución zoo-geográfica). Ofic. Sanit. Panamer. B. 27: 412-460. Ref. May 1948. 449.9 P192B

Lista de huéspedes de las pulgas encontradas en la costa sur-occidental de América., p. 443-459.

4856 MAGIE, R. O., and KELSHEIMER, E. G. Thrips [*Taeniothrips simplex*] control test in Florida, 1948. North Amer. Gladiolus Council. B. 15: 47, 49, 51, 53. Sept. 1948. 96.43 N81

4857 REMY, P. Au sujet de la distribution géographique du névroptère planipenne *Ascalaphus longicornis* L. Entomologiste 4: 82-83. Mar./Apr. 1948. 421 En814

4858 SHARIF, M. The water relations of the larva of *Xenopsylla cheopis* (Siphonaptera). Parasitology 39 (1/2): 148-155. Ref. July 1948. 448.8 P21

4859 SILVESTRI, F. Description of two new species of Japygidae (Insecta, Diplura) from Gold Coast (W. Africa). London. Zool. Soc. Proc. 118: 416-419. Aug. 1948. 410.9 L84P

*Afrojapyx stricklandi* n. g., n. sp.; *Isojapyx scopiferus* n. g., n. sp.

4860 STOKER, M. G. P. The incidence of murine typhus amongst wild rodents in Poona and Bombay. Indian J. Med. Res. 36(1): 15-25. Ref. Jan. 1948. 448.8 In22

Includes note on fleas involved.

4861 WARREN, D. C., EATON, R., and SMITH, H. Influence of infestations of body lice [*Eomenacanthus stramineus*] on egg production in the hen. Poultry Sci. 27: 641-642. Sept. 1948. 47.8 Am33P

4862 WEYER, F. Vergleichende untersuchungen an Rickettsien. Z. f. Naturf. 2b: 349-358. Sept./Oct. 1947. 474 Z3

Includes discussion of louse and flea vectors.

## AGRICULTURAL ENGINEERING

### GENERAL AND MISCELLANEOUS

4863 BJANES, O. T. Norwegian Agricultural Technical Association. (In Norwegian.) Norsk Landbr. 14: 100-101. Mar. 5, 1948. 11 N8122

4864 BROYLES, R. C. Simple fire protection. Farm & Ranch 67(10): 32, 33. Oct. 1948. 6 T31

4865 BURRAS, W. V. Safety and inspections. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 470-476. 1947. 284.69 N19

4866 DANIELL, F. Early land surveying in Texas. Surveying & Mapping 8: 59-63. Apr./June 1948. 325.8 Am3

4867 EDMINISTER, F. C. They're here: trout ponds for the farm. Better Farming Methods 20(10): 21, 31, 42, 44. Oct. 1948. 58.8 B46

4868 ESPINOSA POVEDA, A. Accidentes del trabajo en la agricultura. Congreso Sindical de la Tierra. Estudios y Conclusiones 1948: 179-187. 281.9 C7664 Spain.

4869 FRIERSON, R. E. The use of aerial photography in property surveys. Surveying & Mapping 8: 70-76. Apr./June 1948. 325.8 Am3

4870 GIESE, H. Farm safety. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 489-495. 1947. 284.69 N19

4871 HAMILTON, C. L. Live to pick another year. Farm Safety Rev. 6(5): 4-5. Sept./Oct. 1948. 449.8 F22

4872 HOLDEN, A. E. How to have a fire department; Orland (Indiana) farmers and villagers have the answer, and it's proved to be a profitable one! Successful Farming 46(10): 90, 92. Oct. 1948. 6 S12

4873 KUEMMERLING, K. Tree-climbing safety rules neglected by most nurseries. South. Florist & Nurseryman 61(28): 15-16, 59. Oct. 8, 1948. 80 So86

4874 MORRIS, F. C. Time for action. Surveying & Mapping 8: 45-49. Apr./June 1948. 325.8 Am3

Improvement in the quality of surveys.

4875 PAGE, A. C. Stop farm fires before they start. Prairie Farmer, Gen. Ed. 120(20): 1, 14. Sept. 25, 1948. 6 P883

4876 ROTH, F. Before it's too late. Mich. Farmer 210: 209, 239. Oct. 2, 1948. 6 M58

Farm fire prevention.



4877 SCOTTON, M. A formula for the calculation of tillage areas. (In Italian.) *Macch. e Motori Agr.* 6: 409-412. Sept. 1948. 58.8 M13

4878 SERS, J. Des pistes en béton armé rendront service à la ferme. *Rustica* 21: 703. Oct. 3, 1948. 14 R92  
Farm road building.

4879 SMITH, J. M. Ropework for the farm; useful knots, hitches and splices. *Alberta. U. Facul. Agr. B.* 9, ed. 6, rev., 44 p. July 1948. 101 AL1B

4880 STANTON, R. M. Farm fire safety. *Natl. Assoc. Mutual Ins. Co. Proc. & Papers* 51(2): 533-535. 1947. 284.69 N19

4881 STAUSS, W. Was ist das KTL? *Landtechnik* 3: 245-246. Aug. 15, 1948. 58.8 L235  
Kuratorium für Technik in der Landwirtschaft.

4882 THEBIS, R. Unfallschutz im landmaschinen-handwerk. *Landtechnik* 3: 254-256. Aug. 15, 1948. 58.8 L235

4883 TREIMER, W. Fire prevention. *Natl. Assoc. Mutual Ins. Co. Proc. & Papers* 51(2): 444-447. 1947. 284.69 N19

4884 TUCKEY, W. H. Cigarettes and children are responsible for nearly half the farm fires which occur. *Farmer & Stock-Breeder* 62: 2238. Sept. 28, 1948. 10 F228

Includes preventive measures.

4885 TURNER, A. W. Engineering and a changing agriculture. *Impl. & Tractor* 63(19): 50-51, 58. Sept. 18, 1948. 58.8 W41

4886 U. S. DEPT. OF AGRICULTURE. SAFETY COUNCIL. Fire prevention week, October 3-9, 1948. Washington? 1948. 4 p. 1.90 A2F51

4887 VOSKUIL, W. C. Fire-fighting farmers. *Wis. Agr. & Farmer* 75(19): 9. Oct. 2, 1948. 6 W751  
Rural fire departments and equipment.

4888 WARDLE, N. J. Safety on the dairy farm. *Ontario Milk Prod.* 24: 88-89. Sept. 1948. 44.8 On8

#### FARM MACHINES AND EQUIPMENT

4889 AMARAL, L. Mechanization of agricultural labor in São Paulo. (In Portuguese.) *Rev. Rur. Bras.* 28(332): 26, 28-29. May 1948. 9.2 B733

4890 BARCELO, J. L. Participacion de la ingeniería en la moderna agricultura. *Ceres [Valladolid]* 13(146): 6. Aug. 1, 1948. 15 C33

4891 BERMEO ZUAZÚA, A. La reciente modernización agrícola en los Estados Unidos. *Aberdeen Angus [Buenos Aires]* 1948(39): 28-30, 32. Winter 1948. 43.8 Ab33

4892 BOURDELLE, M. J. La mécanisation des cultures de cannes a sucre, de riz et de coton aux Etats-Unis. *Mach. Agr. et Equip. Rural* 79: 1-4. July 1948. 58.8 M182

4893 BRETZLER. Zahlen, nichts als zahlen — statistische angaben über grösse und zusammensetzung des landmaschinenhandwerks. *Landtechnik* 3: 281-282. Aug. 31, 1948. 58.8 L235

4894 BRODELL, A. P., and EWING, J. A. Farmers mechanize work at record rate in last decade. *Agr. Situation* 32(10): 10-11. Oct. 1948. 1 Ec7Ag

4895 BURGWEDEL, E. Was erwartet die landwirtschaft von der landtechnik? *Neue Mitt. f. die Landw.* 3: 149-150. (Concl.) May 21, 1948. 18 N39

4896 CAMPBELL, I. J. Mechanization—best solution to farm labor problem. *Cotton Gin & Oil Mill Press* 49(21): 9-10, 30-31. Oct. 16, 1948. 304.8 C822

4897 CARLES, R. Enquete sur la motorisation du vignoble. *Prog. Agr. et Vitic.* 1948: 16-19. July 4/11, 1948. 14 P94

4898 CHILDERS, L. E. Fifty years of better machinery. *West. Farm Life* 50(17): 6, 25, 26. Sept. 1, 1948. 6 R153

4899 CHILDERS, L. E., and GRAY, R. B. New machines on the American farm horizon. *Agr.-Com.-Indus. Life* 10(7): 15, 20, 25. July 1948. 25 Ag8

4900 CHILDERS, L. E. New records in farm mechanization. *New England Homestead* 121(17): 3, 26-27. Sept. 11, 1948. 6 N442

4901 COSLINE, H. L. Push-button gutter cleaners are here. *Amer. Agr.* 145: 549, 554. Oct. 16, 1948. 6 Am3

4902 DAVIES, W. W. The age of mechanized agriculture. (In Portuguese.) *Rev. dos Criadores* 19(4): 63-65. Apr. 1948. 43.8 R32

4903 DREES, H. Technik und pflanzenschutz-massnahmen in der landwirtschaft. *Landtechnik* 3: 51-52. Feb. 29, 1948. 58.8 L235  
Germany.

4904 DURME, M. VAN. Mechanization of tree nurseries in Wetterse. (In Flemish.) *Tuinbouwberichten* 12: 107-108. July 15, 1948. 80 T817

4905 ELECTRIC barn cleaner. *Farm Q.* 3(3): 44, 96. Autumn 1948. 6 F22995

4906 FAHRINGER, F. Landmaschinen auf der kärntner landesausstellung. *Kärntner Bauer* 98: 280-282. Sept. 1, 1948. 19 K14

4907 FARM horsepower; there is more mechanical power on the farms of America in 1948 than there is in all the factories in the country. *Fortune* 38(4): 92-96. Oct. 1948. 110 F772

4908 FATH, A. Der landmaschinen-ingenieur und die landwirtschaft. *Landtechnik* 3: 241-242. Aug. 15, 1948. 58.8 L235

4909 FISCH, R. La motorisation agricole est-elle rentable? *Génie Rural* 41: 245-246. Sept. 1948. 58.8 Au8

4910 FISCHER, K. H. Das neue gesicht der landmaschine. *Landtechnik* 3: 215-216. July 31, 1948. 58.8 L235

4911 FISH, S. South gets new auto, farm equipment plants. *Mfrs. Rec.* 117(10): 41. Oct. 1948. 297.8 M31

4912 FRASER, A. Per man or per acre? *Farmers Weekly [London]* 29(15): 41. Oct. 8, 1948. 10 F2226  
Mechanized agriculture.

4913 GOWEN, A. The challenge of cotton mechanization. *Southwest. Crop & Stock* 2(9): 10-11. Sept. 1948. 6 So8942

4914 HANKE, W. Die landmaschinenindustrie in der britischen zone. *Landtechnik* 2(7): 1-3. Mar. 31, 1947. 58.8 L235

4915 HORNE, B. C., and VIDAL, J. C. Conclusiones sobre el problema de la mecanización agrícola. *Res* 16: 22645-22646. Sept. 5, 1948. 286.85 R31

4916 HUNGER, E. A. Machine-grown flowers is big farm business. *Fla. Grower* 56(10): 6, 33. Oct. 1948. 80 M72

4917 JOHNSTON, O. Gearing up cotton on the farm. *Southwest. Crop & Stock* 2(10): 6-7, 75. Oct. 1948. 6 So8942

Mechanization.

4918 KAYSER, E. Motorisierung und arbeitswirtschaft. *Kurzbriefe f. Ernähr. u. Landw.* 7, D I 1, 6 p. July 1948. 281.8 K96

4919 KERSTING, H. Kundendienst. *Landtechnik* 3: 65-66. Mar. 15, 1948. 58.8 L235  
In purchasing equipment in Germany.

4920 KERSTING, H. Wir erleichtern uns die arbeit. *Landtechnik* 3: 36-37. Feb. 15, 1948. 58.8 L235  
Record keeping for utilization of equipment in Germany.

4921 KIND, W. Zehn jahre Versuchs- und Forschungsinstitut für Technik im Gartenbau in Quedlinburg. *Deut. Bauerntech.* 2(5/6): 10-13. May/June 1948. 58.8 D48

4922 KLOTH. Die einsparung von werkstoff durch leichtbau. *Landtechnik* 3: 17-19. Jan. 31, 1948. 58.8 L235  
Equipment.

4923 KLOTH. Zur notwendigkeit des leichtbaus. *Landtechnik* 2(19): 1-2. Oct. 15, 1947. 58.8 L235  
Equipment.

4924 KRIMBAS, B. Enquête sur l'adaptation économique de la motorisation agricole à la viticulture; Grèce. *Off. Internatl. du Vin. B.* 21(208): 25-27. June 1948. 390.8 B87

4925 LALANNE. Ou en est la mécanisation de la culture du lin? *Génie Rural* 41: 265-267. Sept. 1948. 58.8 Au8

4926 LE BEAU, O. R. Packaged citrus moves overhead. *News Farmer Coops.* 15(7): 7, 23. Oct. 1948. 166.2 N47

Overhead conveyors.

4927 LENTZ, J. H. Vorführung von kartoffelvielfachgeräten - im herbst! *Landtechnik* 2(20): 6-7. Oct. 31, 1947. 58.8 L235



- 4928 LONG, J. D. La mecanización agrícola en Colombia. *Agr. Trop.* 4(6): 31-34. June 1948. 26 Ag8
- 4929 LÖVENSKIÖLD, H., JR. Some observations from a two month's visit on a farm in U. S. A. (In Norwegian.) *Norsk Landbr.* 14: 348-349. Sept. 17, 1948. 11 N8122  
Chiefly on equipment.
- 4930 THE MACHINE and the farm. *Fortune* 38(4): 97-101, 198, 201-202, 204, 206, 208. Oct. 1948. 110 F772
- 4931 MARSAIS. Enquête sur l'adaptation économique de la motorisation agricole à la viticulture; France. *Off. Internat. du Vin. B.* 21(208): 21-24. June 1948. 390.8 B87
- 4932 NATIONAL COTTON COUNCIL. Machines come to cotton. II-III. *Impl. & Tractor* 63(18): 34-35, 76-77; (19): 46-47, 68, 83. Sept. 4, 18, 1948. 58.8 W41
- 4933 NEAL, J. H. Power and equipment for small farms in Southeast. *Victory Farm Forum* 1948(32): 12. Sept. 1948. 281.8 F226
- 4934 NERLI, N. A beautiful showing of agricultural equipment. (In Italian.) *Macch. e Motori Agr.* 6: 387-392. Sept. 1948. 58.8 M13
- 4935 NEUREUTER. Landbautechnik ohne elan. *Landtechnik* 2(20): 1-2. Oct. 31, 1947. 58.8 L235  
Germany.
- 4936 RENNEFELD. Neuplanung der absatzlenkung von landmaschinen. *Landtechnik* 2(20): 2-3. Oct. 31, 1948. 58.8 L235  
Germany.
- 4937 RENNEFELD. Tauschhandel und fachbetriebsausweis. *Landtechnik* 2(4): 14-15. Feb. 15, 1947. 58.8 L235  
Equipment in Germany.
- 4938 RIVES. Les coopératives d'utilisation de matériel agricole. *Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947)* 29: 299-302. 1948. 280.29 C761929
- 4939 ROE, J. Why not use your machines twice? *Successful Farming* 46(9): 22-23. Sept. 1948. 6 Su12
- 4940 RUSH, P. Making the cottonsack just a memory. *Southwest. Crop & Stock* 2(10): 20-21. Oct. 1948. 6 So8942  
Cotton mechanization.
- 4941 SCHERR, J. Wie kann die bäuerin entlastet werden? 3, 5. *Landtechnik* 2(4): 15-16; (7): 4. Feb. 15, Mar. 31, 1947. 58.8 L235
- 4942 SCHUSTER, E. Landmaschinen sind frei! *Landtechnik* 3: 221-222. July 31, 1948. 58.8 L235
- 4943 SEVERSON, H. How to get big crowds at demonstrations. *Farm Impl. News* 69(20): 44-45, 102. Sept. 23, 1948. 58.8 F22
- 4944 SICK, W. Methodik von mechanisierungsuntersuchungen. *Landtechnik* 3: 267-269. Aug. 31, 1948. 58.8 L235
- 4945 SIMON, K. Motorisierte gartengeräte in USA; einachs-kleinstschlepper mit handsterz. *Landtechnik* 2 (22): 4-5. Nov. 30, 1947. 58.8 L235
- 4946 SJOLAND, A. Mechanized farming in Norway. *Power Farming* 57(8): 27, 29, 30-31. Aug. 1948. 58.8 P87
- 4947 SMITH, H. P. High-speed farming. *Southwest. Crop & Stock* 2(10): 23, 63. Oct. 1948. 6 So8942  
Mechanization.
- 4948 SOCIÉTÉ DES AGRICULTEURS DE FRANCE. Les Journées d'études sur l'utilisation de la force motrice dans l'entreprise agricole, 21 et 22 mai, 1947. Paris, Maison Rustique, 1948. 112 p. 58 So12
- 4949 STEWART, E. How far mechanized cotton farming? *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(10): 82, 83. Oct. 1948. 6 So81
- 4950 TINDALL, C. How farm machines change. *Mo. Ruralist* 89(16): 8. Aug. 28, 1948. 6 R8891
- 4951 TORRES FILHO, A. Mechanization of agricultural labor. (In Portuguese.) *Lavoura* 52: 65-66. Mar./Apr. 1948. 9.2 L39
- 4952 TURNER, A. W., and JOHNSON, E. J. Machines for the farm, ranch, and plantation. New York, McGraw-Hill, 1948. 793 p. 58 T85
- 4953 VOIGT, O. Landwirtschaftliche maschinenstationen. *Landtechnik* 3: 244-245. Aug. 15, 1948. 58.8 L235
- 4954 WALKER, H. B. A resume of sixteen years of research in sugar-beet mechanization. *Agr. Engin.* 29: 425-430. Oct. 1948. 58.8 Ag83
- 4955 WALKER, H. B. The saga of sugar beet mechanization. *Farm Equip. Retailing* 6(3): 14-15, 86-90, 92. Sept. 1948. 58.8 F2292
- 4956 WELCH, C. L. Mechanization--road to a brighter future. *Cotton Gin & Oil Mill Press* 49(20): 7, 27, 30-31, 34. Oct. 2, 1948. 304.8 C822  
In the cotton industry.
- 4957 WIGHTMAN, R. What shall we make of power? *Farmer & Stock-Breeder* 62: 2077. Sept. 7, 1948. 10 F228  
Large-scale mechanization in Great Britain.
- 4958 WILCOX, R. H. The modernization of farm power and equipment. *Amer. Soc. Farm Mgrs. & Rur. Appraisers. J.* 12: 156-159. Oct. 1948. 281.8 Am32
- Animal Husbandry Equipment
- 4959 ARNOULD, C. La traite mécanique: ses avantages indéniables. *Monit. Agr.* 1(27): 4. July 18, 1948. 14 M744
- 4960 BLACK, L. M., and KRUEGER, W. C. Community "clean-egg" nest. *N. J. Agr. Col. Ext. Leaflet* 17, 4 p. June 1948. 275.29 N46L
- 4961 DOSSIN, C. O. What is new in equipment? *Everybody's Poultry Mag.* 55 i. e. 53(8): 22-24. Sept. 1948. 47.8 F213P
- 4962 HANSEN, C. E. Automatic chick feeder saves labor for Kitsons. *Elect. on the Farm Mag.* 21(8): 12, 14. Oct. 1948. 335.8 EL27
- 4963 HOMB, T., FLATLA, J. L., and LOE, B. Orientation experiments with different methods for machine milking. (In Norwegian.) *Norsk Landbr.* 14: 90-95, 118-122. Mar. 5-19, 1948. 11 N8122
- 4964 MCCARGO, S. New cleaners for milking machines. *G.L.F. Week. Serv. Schedule* 13(16): 3. Oct. 18, 1948. 280.28 G113W
- 4965 PLACE, N. Are you properly equipped? Timely hints on the things you need to get the job done properly. *Shorthorn World* 33(10): 77-78. Aug. 10, 1948. 43.8 Sh8
- 4966 SHANKS, P. L. The farrowing crate. *Vet. Rec.* 60: 478-479. Oct. 2, 1948. 41.8 V641
- 4967 SOMETHING new has been added. *Hoard's Dairyman* 93: 721, 732-733. Oct. 10, 1948. 44.8 H65  
Dairy farm equipment.
- 4968 U. S. RURAL ELECTRIFICATION ADMIN. More power to your poultry raising. Washington, 1947? 4 p. 1 R88Mop  
Modern poultry equipment.
- 4969 WINNER, E. B. Automatic laying house waterers. *Natl. Co. Agent* 4(9): 13, 30. Sept. 1948. 275.28 N213
- Cultivation and Tillage Equipment
- 4970 LOEWEL, E. L., and MAUCH, A. Der neue obstbaulkultivator. *Landtechnik* 3: 246. Aug. 15, 1948. 58.8 L235
- 4971 SOBRERO, L. R. El buen funcionamiento de los arados y las labranzas. *Campo [La Paz]* 2(14): 46. June 1948. 9.1 C15
- 4972 WEBSTER, R. Hancock Terracer now into production. *Southwest. Crop & Stock* 2(9): 24-25. Sept. 1948. 6 So8942
- Fertilizer and Seed Distributors
- 4973 CULPIN, C. A direct-mounted drill for beans. *Agr. Engin. Rec.* 2: 154-155. Augumn 1948. 58.8 Ag84
- 4974 NIXON, W. M. Grass seed drill fills varied needs. *Soil Conserv.* 14: 56-57. Oct. 1948. 1.6 So3S
- 4975 SALOMON, E. Die ergänzung des zweireihigen vielfachgerätes durch eine drillmaschine. *Deut. Bauerntech.* 2(5/6): 29-31. May/June 1948. 58.8 D48
- 4976 THEBIS, R. Überprüfung der zur reparatur eingelieferten drillmaschine. *Landtechnik* 3: 58-60. Feb. 29, 1948. 58.8 L235
- Harvesting Equipment
- 4977 ANDERSSON, Y. Labor saving potato harvester. (In Swedish.) *Lantmannen* 32: 664-665. 11 L234



1978 ARMER, A. Methods and machines for beet top recovery. Spreckels Sugar Beet B. 12: 35-36. Sept./Oct. 1948. 66.8 Sp7

1979 BONIFACCIO, M. Les fanes de pommes de terre et leur destruction. Génie Rural 41: 216-217. July/Aug. 1948. 58.8 Au8

1980 BRENNER, W. G. Mähdrusch und mähdrescherentwicklungen. Landtechnik 3: 209-215. July 31, 1948. 58.8 L235

1981 CASHMORE, W. H. Bad weather harvest tips; suggestions for getting the best out of combines and binders when dealing with laid crops. Farmer & Stock-Breeder 62: 1967, 1969. Aug. 24, 1948. 10 F228

1982 CHERRINGTON, J. O. Combining and drying. Farmer & Stock-Breeder 62: 2024. Aug. 31, 1948. 10 F228

1983 CROSBY, J. New methods and new machines pay off. Calif. Farmer, North. Ed. 189: 298-299. Oct. 9, 1948. 6 C126

Lima bean harvesting equipment.

1984 DAUPHIN, J. Le moissonnage-battage et les coopératives des céréales. Défense Agr. de la Beauce et du Perche 45: 225-226. Aug. 20, 1948. 14 D36

1985 HOFF, P. R. How to reduce bruising when digging potatoes. Amer. Agr. 145: 501. Sept. 18, 1948. 6 Am3

Use and adjustment of the digger.

1986 LITTORIN, S. Combine for lodged grain. (In Swedish.) Lantmannen 32: 599. Sept. 4, 1948. 11 L234

1987 MAGRUDER, J. W. Corn harvesting problems. Md. Farmer 32(8): 9, 15. Aug. 1948. 6 M362

Mechanization problems.

1988 MEYER, P. R., and DUARTE, R. R. Harvesting rice with binders and combines. (In Portuguese.) Lav. Arroz. 2(17): 9-10. May 1948. 59.8 L39

1989 SCHACHT, H. R. Type of self-binders. (In Danish.) Dansk Landbr. 67: 330. Sept. 2, 1948. 280.28 V91

1990 STODART, J. A. Is the combine worth while? Farming News & North Brit. Agr. 100(37): 5. Sept. 3, 1948. 10 N82

1991 STREET, A. G. "My harvest's finished." Farmers Weekly [London] 29(9): 34. Aug. 27, 1948. 10 F2226

Combine-harvester.

1992 STREET, A. G. None of these takes kindly to linseed. Farmers Weekly [London] 29(12): 35. Sept. 17, 1948. 10 F2226

Harvesting equipment.

#### Land Clearing Equipment

1993 HEIPLE, D. K. Payload capacity of Diesel earthmovers. Diesel Prog. 14(10): 50-51. Oct. 1948. 291.8 D56

1994 REINHOLD. Die grundlagen der sprengrodung und das Geffa-flachsprengverfahren. Holz-Zentbl. 74: 244. July 22, 1948. 99.81 H742

#### Processing Equipment Used on the Farm

1995 ARBOUR, M. B. Curing hay with heat. Prog. Farmer, Miss.-Ark.-La. Ed. 63(10): 131, 135. Oct. 1948. 6 So81

1996 ARMSTRONG, J. M., and COOPER, D. J. The development of the C.E.F. [Central Experimental Farm] cyclone plot thresher. Sci. Agr. 28: 417-421. Sept. 1948. 7 Sci2

1997 BEARD, R. When you buy your automatic refrigerator. Ohio. Agr. Col. Ext. B. 276, 4 p. Mar. 1947. 275.29 Oh32

1998 BREIREM, K. Artificial drying of grass. (In Norwegian.) Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Føringsslære. Særtrykk 58, 81 p. Ref. Oslo, 1948. 389.79 N76

English summary.

1999 CHERRINGTON, J. O. Grass-drying can flourish if—. Farmer & Stock-Breeder 62: 2359. Oct. 12, 1948. 10 F228

Grass-drying in Holland.

5000 COLLINS, J. E. Electric feed grinding equipment. South. Planter 109(9): 24-25. Sept. 1948. 6 So89

5001 DAVIS, R. B., JR. Fundamental factors in forage drying research. (Abs.) Va. Acad. Sci. Proc. 1947/48: 64. 1948. 500 V81

5002 FATH, A. Leistungsgrösse und trommel-durchmesser bei breittedreschern. Landtechnik 3: 217-218. July 31, 1948. 58.8 L235

5003 FATH, A. Warum keine einheits-schlagleiste? Landtechnik 3: 19-20. Jan. 31, 1948. 58.8 L235

Threshing machine parts.

5004 FEW, F. G. Cooling milk and cream; a water-cooled tower for the dairy farm. Westralian Farmers' Co-op. Gaz. 12: 227-231, 233. Oct. 1947. 280.28 W522

5005 GENERAL ELECTRIC COMPANY. FARM INDUSTRY DIV. Barn hay curing. Schenectady, 1948. Folder. 335 G282

5006 HANSEN, K. Technical aids for treatment of silage crops. (In Danish.) Tidsskr. for Landøkonomi 1948: 432-443. Sept. 1948. 11 T43

5007 HEATON, E. B. Use of cold water in the dressing of poultry with automatic picking machines. (Abs.) Poultry Sci. 27: 666-667. Sept. 1948. 47.8 Am33P

5008 HEINEMANN, H. B. Operation and inspection of can washers. Milk Dealer 38(1): 188-190. Oct. 1948. 44.8 M595

5009 HOLMAN, L. We have learned a lot about corn drying. Successful Farming 46(10): 28-29, 54-55. Oct. 1948. 6 Sul2

Tests with new corn driers.

5010 HUTTAR, J., and VANDERVORT, V. A milestone in poultry progress: the G.L.F. egg washers. G.L.F. Week. Serv. Schedule 13(18): 1-2. Nov. 1, 1948. 280.28 G133W

5011 JACKSON, B. Cotton planting gets a lift from delinting. Southwest. Crop & Stock 2(10): 11. Oct. 1948. 6 So8942

Advantages of delinted seed and methods of delinting.

5012 KALTENEGGER, M. Über die heutrocknung auf gerüsten. Kleintier-Zücht. Tierbörse 2(42): 7-8. Aug. 25, 1948. 49 K672

5013 KESPER, J. Neuzeitliche hochleistungs-maschinen zur aufbereitung von mischdüngern und zum zerfasern pflanzlicher produkte. Landtechnik 2(22): 6-7. Nov. 30, 1947. 58.8 L235

5014 MÉLIN, É., and POTERLOT, A. Les machines de fenaison. Soissons, Mélin, 1948. 249 p. 58 M48

5015 MONTEAUX, A. Comment choisir un refroidisseur de lait. J. de la France Agr. 4(165): 5. Aug. 27/Sept. 2, 1948. 14 J829

5016 PICKETT, J. Tiedemann's barn cured hay. Calif. Farmer, North Ed. 189: 300-301. Oct. 9, 1948. 6 C126

5017 WALKER, C. B. Hay finisher fan doubles on corn. Elect. on the Farm Mag. 21(8): 16. Oct. 1948. 335.8 EL27

5018 WEST, W. J. Potato sorter trials. Agr. Engin. Rec. 2: 148-149. Autumn 1948. 58.8 Ag84

5019 WILSON, E. B. Walk-in freezer construction. Mont. State Col. Ext. C. 182, 7 p. May 1947. 275.29 M76Ci

#### Repair, Maintenance, and Construction Equipment

5020 BONFIELD, J. P. Gar-shop. Business of Farming 7(6): 12-13. Fall 1948. 6 B96

Combination garage and farm shop.

5021 GIBSON, H. H. Developments in agricultural education. IV. Farm shop instruction. Agr. Ed. Mag. 21: 92-93. Oct. 1948. 275.8 Ag8

5022 GILES, G. W., and PATE, R. This farm shop paid for itself. Country Gent. 118(10): 29, 138, 139. Oct. 1948. 6 C833

5023 MAYET, P. Ateliers de réparations. Terre d'Occ. 30: 296-298. July 1948. 14 Ar5

5024 STEPHENSON, A. E. Welding on the farm. III. Welding methods. Westralian Farmers' Co-op. Gaz. 14(359): 57-59. July 1948. 280.28 W522

#### Spraying and Dusting Equipment

5025 BETTS, J. Spraying is new county F. B. service in Kentucky. Nation's Agr. 23(8): 21. Sept. 1948. 280.82 B89

5026 DREES, H. KTL und pflanzenschutzgeräte. Landtechnik 3: 21. Jan. 31, 1948. 58.8 L235

5027 GALLWITZ, K. Vorführung von pflanzen-schutzgeräten. Landtechnik 2(19): 2-3. Oct. 15, 1947. 58.8 L235



- 5028 LATTNER, E. J. Low gallonage spraying biggest news of year; next year to show huge increases. Northwest Farm Equip. J. 62(10): 18-19. Oct. 1948. 58.8 F222
- 5029 MACDONALD, W. P. What constitutes a good sprayer? Farm Impl. News 69(21): 40, 98, 100, 102. Oct. 7, 1948. 58.8 F22
- 5030 MASSEY, G. F. Today's weed sprayer engineering problems. Farm Impl. News 69(20): 48-49, 96, 98, 100. Sept. 23, 1948. 58.8 F22
- 5031 MASSEY, G. F. Weed sprayer sales problems. Farm Impl. News 69(19): 54-55, 136-140. Sept. 9, 1948. 58.8 F22
- 5032 STANILAND, L. N., and MAYOR, J. A home-made dusting machine for ridge and rowcrop work. Gt. Brit. Min. Agr. Agriculture 55: 203-207. Aug. 1948. 10 G79J
- 5033 TIRRELL, G. E. The mechanics of mist spraying. Trees [Cleveland] 8(6): 12, 20, 26. (To be cont.) Sept./Oct. 1948. 99.8 W52

#### Vehicles

- 5034 ANIANSSON, G., and NORÉN, O. Hitches for tractor-drawn four-wheeled wagons. (In Swedish.) Jordbrukstek. Inst. Meddel. 219, 58 p. Uppsala, 1948. 58.9 J762
- English summary.
- 5035 BALL, C. E. How to save tractor fuel! South. Agr. 77, i. e., 78(10): 11, 51. Oct. 1948. 6 So83
- 5036 BALLU, T. La traction mécanique en agriculture. Ed. 3. Paris, Maison Rustique, 1948. 360 p. 58 B21
- 5037 ENGELHARD, J. Les filtres et les appareils de motoculture. Rustica 21: 603. Aug. 29, 1948. 14 R92
- 5038 FEDERACION VENEZOLANA DE CAMARAS Y ASOCIACIONES DE COMERCIO Y PRODUCCIÓN. El petróleo, fomentador de la actividad agropecuaria. Caracas. Cam. de Com. B. (ser. 2) 36: 11390-11394. June 1948. 287 C173
- 5039 HINE, H. J. Hitching horses. Gt. Brit. Min. Agr. Agriculture 55: 208-210. Aug. 1948. 10 G79J
- 5040 HINE, H. J. Tractors on the farm; use and maintenance. Ed. 3. London, Farmer & Stock-breeder, 1947. 128 p. 58 H58T
- 5041 HUGUES, L. Considérations sur les bandages des roues des tracteurs agricoles. Agriculture [Paris] 12: 305-307. Sept. 1948. 14 Ag823
- 5042 INEICHEN. Zugvermögen des traktors bei verschiedener steigung. Grüne 76: 975-977. Sept. 10, 1948. 17 Sch9
- 5043 KLOTH. Die konstruktive entwicklung der ackerwagen in England und Frankreich. Landtechnik 3: 33-34. Feb. 15, 1948. 58.8 L235
- 5044 LALANNE, M. Comment résoudre le problème des transports. Génie Rural 41: 254-256. Sept. 1948. 58.8 Au8
- Farm wagons.
- 5045 MUYZENBERG, E. W. B. VAN DEN. Development of the two and four wheel tractor. (In Dutch.) Tuinbouw 3: 201-203. Aug. 1948. 80 T815
- 5046 RIDDER, H. Farm state 'gas' consumption up 30% despite greater urban population gains. Natl. Petrol. News 40(41): 29-30, 33. Oct. 13, 1948. 307.8 P44
- 5047 SIMON, C. Les tracteurs agricoles et le code de la route. Bouches du Rhône Agr. 21(985): 8. Sept. 1, 1948. 14 B662
- 5048 THEBIS, R. Überprüfung des schleppers. Kurzbriefe f. Ernähr. u. Landw. 8, D II 3, 2 p. Aug. 1948. 281.8 K96
- 5049 TINGLEFF, N. Use of the tractor in the approaching spring. (In Danish.) Tolvmandsbladet 20: 63-65. Mar. 1948. 11 T58
- 5050 VINER, F. L. Some experience with a "Trusty" tractor. Kenya. Coffee Bd. Monthly B. 13: 77. June 1948. 68.29 C652
- 5051 WEISS, D. Push-buttons guide tractor. Oreg. Farmer 71: 649. Sept. 2, 1948. 6 Or32
- Remote control operation.
- 5052 WILCOX, R. S. The new co-op tractors start rolling out! Cent. Exch. Messenger 7(3): 13-15. Oct. 1948. 280.28 C33
- 5053 WYSS, H. R. Der zukünftige landtraktor. Grüne 76: 957-975. Sept. 10, 1948. 17 Sch9

#### FARM STRUCTURES AND RURAL HOUSING

- 5054 AGERTOFT, K. Capital investment in Swedish agricultural buildings and the annual expenses. (In Danish.) Tidsskr. for Landøkonomi 1948: 395-402. Aug. 1948. 11 T43
- 5055 DINNER, R. Der architekt auf dem lande. Landarbeter Arch. 3: 169-176. June 1948. 283.8 L23
- 5056 HECKL, R. Die landwirtschaftlichen bauten, der schlüssel zur zukunft unserer höfe. Kärntner Bauer 98: 275-277. Sept. 1, 1948. 19 K14
- 5057 MAOLI, L. Rural building in Italy. (In Italian.) Humus 4(8): 29-30. Aug. 1948. 16 H88
- 5058 PERKINS, B. G. The problem of modernization of farm buildings. Amer. Soc. Farm Mgrs. & Rural Appraisers. J. 12: 160-166. Oct. 1948. 281.8 Am32
- 5059 POTTER, P. B., and MARSHALL, M. Procedures in farm structures research. (Abs.) Va. Acad. Sci. Proc. 1947/48: 65. 1948. 500 V81
- 5060 TOFOLANSKI, E. M. La construcción rústica y la técnica de su realización. Agros (ser. 8) 9(3): 11-53. Oct. 1947. 9.9 Ag82
- 5061 TRÄNKNER, E. Leichtbaugestaltung und kostenfrage. Landtechnik 3: 66-68. Mar. 15, 1948. 58.8 L235

#### Animal Shelters and Animal Service Buildings

- 5062 ÅKESSON, T. Barns for milch cows not confined to stalls. (In Swedish.) Ladugården 1948: 119-128. July 1948. 44.8 L12
- 5063 ALEXANDER, A. K. S. Old [poultry] housing can be adapted. Farmer & Stock-Breeder 62: 1983. Aug. 24, 1948. 10 F228
- 5064 BAKER, R. C. 7500 layers to the pen; this huge house is a labor saver. Amer. Poultry J. 79(9): 9, 25-27. Sept. 1948. 47.8 Am32
- 5065 BAKER, R. C. Why deep houses are better. Everybody's Poultry Mag. 55 i. e. 53(10): 7, 12-13. Nov. 1948. 47.8 F213P
- 5066 BEELER, M. N. New money from old horse barns. Capper's Farmer 59(10): 12-13. Oct. 1948. 6 M693
- Remodeling.
- 5067 BLACKBURN, R. Now or never; plant needs overhauling before winter sets in—make sure that houses are completely waterproof. Poultry World 83: 174. Sept. 10, 1948. 47.8 P8682
- 5068 COPE, T. Multiple unit fryer house; this lightly constructed, low-cost house was planned for convenience. Pacific Poultryman 52(9): 6, 17. Oct. 1948. 47.8 P112
- 5069 DUNCAN, J. E. Practical points in sheep dipping, including the design and construction of sheep dipping baths. New Zeal. Dept. Agr. B. 181, rev., 35 p. 1948. 23 N48Bu
- 5070 ELAM, F. L. Something new in milking barns. West. Dairy J. 4(12): 24-25, 32. Oct. 1, 1948. 44.8 W524
- 5071 ELDER, C. R. The pay-off is in eggs. Successful Farming 46(10): 186. Oct. 1948. 6 Su12
- Poultry house.
- 5072 ESCAURIZA, R. DE. El gallinero debe ser higiénico. Agr. y Ganad. 24(8): 28-30. Aug. 31, 1948. 8 Ag834
- 5073 GOODMAN, A. M. Homes for laying hens. N. Y. Agr. Col. Cornell Ext. B. 451, rev., 46 p. Aug. 1948. 275.29 N48E
- 5074 GOODMAN, A. M. Remodeling barns for better dairy stables. N. Y. Agr. Col. Cornell Ext. B. 742, 68 p. Sept. 1948. 275.29 N48E
- 5075 GRANGE, C. Sound sleep for the layers; house construction that ensures good ventilation and comfortable perching. Smallholder 79(2004): 17. Aug. 27, 1948. 10 Sml
- 5076 HUBER, M. G. Corrals for spraying cattle. Oreg. State Col. Ext. C. 521, 3 p. Aug. 1948. 275.29 Or32C
- 5077 HUSSAIN, M. F. Improved semi-permanent cattle sheds. Indian Farming 9: 75-76. Feb. 1948. 22 In283
- 5078 IOWA STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The farm milk house. Iowa. State Col. Agr. Ext. Pam. 126, 7 p. Oct. 1947. 275.29 Io9Pa



- 5079 JOHNSON, R. E. Night protection for turkey roost. Elect. on the Farm Mag. 21(8): 7. Oct. 1948. 335.8 EL27
- 5080 JONES, R. E. Poultry houses have a "new look." Everybody's Poultry Mag. 55 i. e. 53(8): 14-16. Sept. 1948. 47.8 F213P
- 5081 JONES, T. K., and JAMES, H. B. Converting to grade A milk production. N. C. Agr. Col. Ext. C. 324, 4 p. Sept. 1948. 275.29 N811
- Capital requirements including cost of barn.
- 5082 KELLY, P. L. Give the barn that new look. Milking Shorthorn J. 29(10): 3-4. Oct. 1948. 43.8 M59
- 5083 KESPER, J. Die neuzeitliche entwicklung landwirtschaftlicher lüftungseinrichtungen. Landtechnik 2(20): 5-6. Oct. 31, 1947. 58.8 L235
- Apparatus for stables.
- 5084 LAGERLÖF, N. Summer cleaning of barns. (In Swedish.) Ladugården 1947: 71. Aug. 1947. 44.8 L12
- 5085 LISTER, J. H. Barns—co-op all the way. News Farmer Coops. 15(7): 5, 21. Oct. 1948. 166.2 N47
- Chain of cooperation in purchase of materials and laminated construction.
- 5086 MCMUNN, E. W. Modernized barn makes dairying easier. Ohio Farmer 202(7): 10. Oct. 2, 1948. 6 Oh3
- 5087 NOTH, H. Die bedeutung des stallfussbodens. Deut. Bauerntech. 2(5/): 16-18. May/June 1948. 58.8 D48
- 5088 OBER, J. Gesunde ställe durch wärmeschutz und lüftung. Kurzbrieft f. Ernähr. u. Landw. 7, D IV 3, 2 p. July 1948. 281.8 K96
- 5089 PARKS, S. L. He remodeled for chickens; little labor and small cost provided accommodations for layers. Amer. Poultry J. 79(9): 6. Sept. 1948. 47.8 Am32
- 5090 RHYS, I. W. A mobile solid floor house. Mod. Poultry Keeping 59: 304-305. Sept. 29, 1948. 47.8 Eg3
- 5091 RHYS, I. W. Portable poultry houses. Gt. Brit. Min. Agr. Agriculture 55: 214-215. Aug. 1948. 10 G79J
- 5092 RHYS, I. W. This house means more eggs. Poultry Farmer [London] 119(3090): 8-9. Sept. 24, 1948. 47.8 F312
- 5093 ROSENHEIM, H. H. New "light" on poultry house lighting. Fla. Poultry & Dairy J. 14(8): 22. Sept./Oct. 1948. 47.8 F66
- 5094 SAMAT, M. L'éclairage artificiel des poulaillers. Réveil Agr. 57: 248-249. Aug. 15, 1948. 14 R322
- 5095 SEARLE, D. Watch your plant. Keep down replacement costs while maintaining even egg-production. Poultry World 83: 192. Sept. 17, 1948. 47.8 P8682
- 5096 SHAW, R. B. Housing the poultry on the general farm. Ulster Farmer 49(7): 35-38. July 1948. 10 UL7
- 5097 SMITH, J. B. Comfort in the hen house. Farmer's Mag. 45(10): 74, 75. Oct. 1948. 7 C165
- 5098 THRAILKILL, B. G. Dream dairy barn. Iowa Farm & Home Register 1948: 12-H-13-H. Sept. 5, 1948. 6 Io94
- 5099 TURNILL, L. Build battery houses in concrete. Poultry Farmer [London] 119(3089): 8. Sept. 17, 1948. 47.8 F312
- 5100 TURNILL, L. Felt makes houses draught proof. Poultry Farmer [London] 119(3091): 8-9. Oct. 1, 1948. 47.8 F312
- 5101 WILSON, E. We make our own mobile house. Poultry [London] 103: 192; 214; 232. Sept. 7-21, 1948. 47.8 P869
- 5102 WITZEL, S. A., and ANNIN, G. E. A colony house on pasture for healthier chicks, cheaper feeding. Wis. Agr. Col. Ext. C. 336, rev., 8 p. May 1948. 275.29 W75C

#### Farmhouses and Farmsteads

- 5103 BOYD, J. S. What do we want in a farm home? Hoard's Dairyman 93: 784-786. Oct. 25, 1948. 44.8 H65
- 5104 FLETCHER, S. W. Substantial farmhouses. Pa. Farmer 139: 170. Sept. 25, 1948. 6 P383

- 5105 FOSTER, R. Walkers convert bedroom into bathroom. Elect. on the Farm Mag. 21(8): 29-32. Oct. 1948. 335.8 EL27
- 5106 GATSON, H. P., LOVE, A. B., and BOYD, J. S. Homes for seasonal farm help. Mich. State Col. Agr. Ext. Farm Bldg. Serv. C. 711, 28 p. June 1947. 275.29 M58Fa
- 5107 HOECHSTETTER, H. Dorfgemeinschaftshäuser 1934 originell - bis heute aktuell. Landtechnik 3: 242-243. Aug. 15, 1948. 58.8 L235
- 5108 LA ROCK, M. J. Farm home for easy living. Capper's Farmer 59(10): 11, 88. Oct. 1948. 6 M693
- House plan.
- 5109 MATAALLANA VENTURA, S. Hacia una mejora de la vida rural: la calefacción en el campo. Agricultura [Madrid] Sup. de Colon. 1948(8): 20-24. July 1948. 15 Ag84B
- 5110 OSSE, L. Good health depends on a good house. Rural construction. (In Portuguese) Rev. dos Criadores 19(4): 34. Apr. 1948. 43.8 R32
- 5111 PETERSSON, H. Rural housing. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(5): 5. Feb. 1, 1947. 11 J762
- 5112 RICHARDSON, T. C. If you can't build anew, make your old farmhouse new. Farmer-Stockman 6(19): 3, 54. Sept. 1948. 6 Ok45
- 5113 SCHAFFHAUSEN, J. F. Quality you can afford. Country Gent. 118(10): 30-31, 193, 194. Oct. 1948. 6 C833
- Plans for a country house.
- 5114 WICHES, H. E. Farmhouse planning is easy. Wash. State Col. Ext. B. 377, 9 p. July 1948. 275.29 W27P

#### Greenhouses and Plant Service Buildings

- 5115 BIGGAR, W. J. Automatic controls. Orchid Digest 12: 171-172, 183. (To be cont.) July/Aug. 1948. 80 Or172
- Greenhouses.
- 5116 BROWN, P. H. Light on lights. 3-4. Grower 30: 201-203, 244-246, 361-362. Aug. 7, 14, Sept. 4, 1948. 286.83 M34
- Production systems described. Combining frames and structures. Growing the crops in frames.
- 5117 EYSTER, W. H. Pit greenhouses. Organic Gard. 13(4): 20-21. Oct. 1948. 56.8 Or3
- 5118 MUIJZENBERG, E. W. B. VAN DEN. The light in the glasshouse. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 514-521. Ref. Aug. 1948. 86 N384
- English summary.
- 5119 SHEWELL-COOPER, W. E. Continuous cloches help autumn food production. New Health 23(9): 14. Sept. 1948. 449.8 N45
- 5120 SIMONS, A. J. Methods of warming the garden frame. Gard. Work Amateurs 68: 571-572, 593-595; 69: 15, 24. Sept. 18, 25, Oct. 2, 1948. 80 G1627
- Title varies.
- 5121 TOMLINSON, J. W. For greenhouse heating, coke, gas or electricity? Smallholder 79(2005): 8. Sept. 3, 1948. 10 Sml
- Comparative costs and merits.
- 5122 WALCH, G. J. Scandinavian glazing methods. (In Dutch.) Bloemisterij 22(33): 3. Aug. 13, 1948. 80 B624

#### Materials and Methods

- 5123 DENNISTON, J. V. Spray painting comes to the farm. Impl. & Tractor 63(20): 41, 81. Oct. 2, 1948. 58.8 W41
- 5124 OSIPOV, I. New building material for collective farm constructions. (In Russian.) Kolkhoz. Proizvod. 8(5): 43-44. May 1948. 281.8 K83

#### Storage Structures

- 5125 BLICKLE, J. D. The harvest truly is great—will your [corn] cribs handle the crop? Ohio Farmer 202(5): 3, 27. Sept. 4, 1948. 6 Oh3
- 5126 CALDWELL, R. A. Insulated composter. Organic Gard. 13(4): 45. Oct. 1948. 56.8 Or3
- 5127 HOLMQVIST, N. Building technical investigations of tall silos. (In Swedish.) Ladugården 1947: 116-117. Oct. 1947. 44.8 L12



- 5128 MOORE, R. R. Need grain bin room right on the farm. *Kans. Farmer* 85(17): 30-31. Sept. 4, 1948. 6 K13
- 5129 OLSON, E. A. Corncrib construction. *Nebr. Farmer* 90(18): 12. Sept. 18, 1948. 6 N27
- 5130 PHAGAN, C. V. Plans for temporary corn cribs. *Okla. Agr. Col. Ext. C. 490*, 6 p. 1948? 275.29 Ok41C
- 5131 SERS, J. Construisez des silos à fourrages verts. *Rustica* 21: 663. Sept. 19, 1948. 14 R92
- 5132 STAHL, B. M. Covers for temporary [corn] cribs. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 3(3): 6-7. Sept. 1948. 275.28 Io94
- 5133 SWEPSTONE, H. E. My manure bunker. *Poultry Farmer [London]* 119(3087): 8-9. Sept. 3, 1948. 47.8 F312
- 5134 VIET, M. Silo-fosse à fourrage. *Génie Rural* 41: 219. July/Aug. 1948. 58.8 Au8
- 5135 VOLANTI, U. Why silos are not constructed. (In Italian.) *Agr. Bresciana* 1(35): 1-2. Sept. 1, 1948. 16 Ag89
- 5136 WALKER, C. B. There's no spoiled corn in this crib! Forced ventilation saves it all. *Ohio Farmer* 202(6): 14. Sept. 18, 1948. 6 Oh3

#### Walls and Fences

- 5137 FARMER, G. R. A flood-proof fence. *Farm & Ranch* 67(10): 61. Oct. 1948. 6 T31
- 5138 FOX, C. P. What's new in electric fencing. *Farm Electrification* 2(5): 31-32. Sept./Oct. 1948. 335.8 F224
- 5139 HUBER, M. G. A portable stack-yard fence. *Oreg. State Col. Ext.* 520, 4 p. Aug. 1948. 275.29 Or32C
- 5140 MAREC, E. La clôture électrique. *Génie Rural* 41: 257-259. Sept. 1948. 58.8 Au8

#### FARM UTILITIES

##### Electricity and Electrification

- 5141 ALARCON CH., P. J. Necesidad de energia electrica en las regiones cafeteras. *Agr. Trop.* 4(6): 9-11. June 1948. 26 Ag8
- 5142 BARKLEY, P. Electricity on the march. *Co-op Power* 5(11): 4-5. Nov. 1948. 335.8 C78
- Farm electrification research.
- 5143 BLAUSER, I. P. For best in electric service it takes modern wiring. *Ohio Farmer* 202(5): 28-29. Sept. 4, 1948. 6 Oh3
- 5144 BUTLER, H. REA [Rural Electrification Administration] in Nebraska. *Nebr. Farmer* 90(19): 7, 24. Oct. 2, 1948. 6 N27
- 5145 CAHILL, J. C. More power for tomorrow. *Farm Electrification* 2(5): 8-12. Sept./Oct. 1948. 335.8 F224
- 5146 HEMKER, W. D. How to assure adequacy in farm wiring. *Elect. World* 130(15): 98-101. Oct. 9, 1948. 335.8 EL2
- 5147 HESTON, R. E. Rural electrification and farm fire safety. *Nebr. Union Farmer* 35(8): 3. Sept. 8, 1948. 280.8 N27
- 5148 HILL, H. Rural electric co-ops go to the fair; Missouri State Fair features display by 43 rural electrics. *Rur. Electrification* 7(1): 30-31. Oct. 1948. 335.8 N21
- 5149 KOPELSON, A. R. Down on the farm--electrically. *Natl. Indus. Conf. Bd. Business Rec.* 5: 369-370. Sept. 1948. 280.9 N216Cb
- Statistics.
- 5150 MACHATA, F. Die hydroelektrische eigenanlage im dienste der landwirtschaft. *Salzburg. Bauer* 3(33): 1-2. Aug. 12, 1948. 19 Sa3
- 5151 MAREC, E. La tension non dangereuse. *Génie Rural* 41: 218. July/Aug. 1948. 58.8 Au8
- 5152 MARTY, H. L'électricité dans l'agriculture. *Toulouse*, 1948. 492 p. 335 M365
- 5153 MARTY, H. L'incidence du coût de l'énergie électrique sur les activités agricoles. *Génie Rural* 41: 213-215. July/Aug. 1948. 58.8 Au8
- 5154 MIDLANDS ELECTRICITY BOARD. Electricity on the farm; power required for various purposes, by M. M. Harvey. n. p., 1948. 20 p. 335 M585
- 5155 PIL'CHEVSKIĬ, A. First step in the construction of the Tal'nov Hydroelectric Station. (In Russian.) *Kolkhoz. Proizvod.* 8(5): 41-42. May 1948. 281.8 K83

- 5156 READ, E. R. Electric lines increase. III. *Dept. Agr. Ann. Rpt.* 30: 254-265. 1947. 2 IL6R
- 5157 RICHARDSON, T. C. Aladdin's lamp has transformed the farm. *Farmer-Stockman* 61(10): 3, 47. Oct. 1948. 6 Ok4
- Electricity on the farm.
- 5158 ROTHPLETZ, M. W., and WILLIAMS, H. S. Inductive co-ordination in rural areas. *Elect. Engin.* 67: 1042. Nov. 1948. 335.8 EL225
- 5159 ROWLAND, F. E. Some aspects of agricultural and horticultural electrification in Great Britain. *Farm Electrification* 2(5): 13-20. Sept./Oct. 1948. 335.8 F224
- 5160 SCALES, D. The woman's place can be any place in the rural electric cooperative. *Rur. Electrification* 7(1): 25, 52. Oct. 1948. 335.8 N21
- 5161 SKLIUEV, N. Some results of electrification of a collective farm. (In Russian.) *Kolkhoz. Proizvod.* 8(5): 41. May 1948. 281.8 K83
- 5162 SMITH, L. J. The development of rural electrification in the Pacific Northwest. *Farm Electrification* 2(5): 22-27. Sept./Oct. 1948. 335.8 F224
- Also in *Agr. Engin.* 29: 444, 446, 448, 450, 452. Oct. 1948. 58.8 Ag83
- 5163 U. S. RURAL ELECTRIFICATION ADMIN. Care and use of your small electric appliances. *Washington*, 1948. 4 p. 1.933 C18
- 5164 U. S. RURAL ELECTRIFICATION ADMIN. Main points to consider when electrifying the rural home. *Washington?* 1948. 2 p. 1.933 M282
- Wiring and equipment.
- 5165 WICKARD, C. R. A tribute to local enterprise Washington? U. S. Rural Electrification Admin., 1948. 4 p. 1.91 A2W63
- Spoon River Electric Cooperative, Inc., Canton, Ill.

#### Heating, Lighting, and Radiation

- 5166 BAMFORTH, G. Experiences with radiant heat brooding; not suitable for small scale production. *Mod. Poultry Keeping* 59: 323. Oct. 6, 1948. 47.8 Eg3
- 5167 HAFFERT, W. A. JR. Brooderless brooding—a year later. *N. J. Farm & Gard.* 19(9): 36-38. Sept. 1948. 6 G162
- Brooding Leghorns with radiant heat.
- 5168 HOLDEN, A. E. "Yep, we farm with bottled gas." *Successful Farming* 46(10): 78-80. Oct. 1948. 6 Su12
- 5169 LOW, A. J. Fluorescent lighting for pot culture. *Gt. Brit. Min. Agr. Agriculture* 55: 210-211. Aug. 1948. 10 G79J
- 5170 PAIEMENT, R. J. Le chauffage par rayonnement. *Avic. Québécois* 3(8): 5-7. Aug. 1948. 47.8 Av55
- In chick housing.
- 5171 TRENARY, O. J. Is your heating system safe? *Colo. Rancher & Farmer* 2(18): 7. Sept. 25, 1948. 6 C714

#### Power Plants, Motors and Engines on the Farm

- 5172 ENGELHARD, J. Votre moteur perd de sa puissance et consomme trop. *Rustica* 21: 543. Aug. 8, 1948. 14 R92
- Tractor and other motors.
- 5173 HEMKER, W. D. Maintenance hints for farm electric motors. *Better Farming Methods* 20(10): 16-17, 58. Oct. 1948. 58.8 B46
- 5174 HISSERICH, H. Mehr energie und dünger aus der landwirtschaft. *Landtechnik* 2(7): 3-4. (To be cont.) Mar. 31, 1947. 58.8 L235
- Methane gas production.
- 5175 LEIDL, E. Die explosionsmotore. *Salzburg. Bauer* 3(33): 6-7. (Cont.) Aug. 12, 1948. 19 Sa3
- 5176 RANDS, A. W. How new are they? The gas turbine and that hot air engine. *Power Farming* 57(8): 17, 19, 21, 22. Aug. 1948. 58.8 P87
- 5177 ZIMMERMANN, G. F. A half-century of the Diesel engine. German inventor's product entered commercial use in 1898; horsepower production in U. S. now five times that of 1939. *Internatl. Harvester World* 39(10): 18-21. Oct. 1948. 58.8 H26
- 5178 ARNOLD, E. L. Farmers can construct satisfactory septic tank; disposal system found practical. *Wis. REA News* 9(3): 14. Sept. 1948. 335.8 W75



Sewage and Waste Disposal

- 5179 BERRY, A. E. There is no mystery to septic tanks! Your Gard. & Home 2(10): 6, 15-17. Oct. 1948. 80 Y8
- 5180 BLANKENSHIP, C. F. The meaning of rural sanitation. Service 13(2): 12, 33. Sept. 1948. 280.8 Se62
- 5181 COX, G. W. Watch that sewage! Farm & Ranch 67(10): 12. Oct. 1948. 6 T31
- 5182 KAISER, W. G. Precast concrete septic tanks. Agr. Engin. 29: 431, 433. Oct. 1948. 58.8 Ag83
- 5183 MCGUIRE, B. B. Why control sewage disposal in the rural districts? Farm & Dairy [Salem, Ohio] 35 (2): 1, 24. Oct. 14, 1948.
- 5184 VOSKUIL, W. C. Why not improve your farmstead with a sewage system. Wis. Agr. & Farmer 75 (18): 9. Sept. 18, 1948. 6 W751

Telephones

- 5185 ROLAND, L. A. Law does not ask for metal-lizing rural phone lines. Rur. Electr. Mag. 7(1): 40. Oct. 1948. 335.8 N21

Water Supply

- 5186 ARNOLD, E. L. A national cooperative plumbing program. Agr. Engin. 29: 432-433. Oct. 1948. 58.8 Ag83
- Role of Rural Electrification Administration.
- 5187 BJERNINGER, S. Water pumps and pressure tank pumping systems. (In Swedish.) Jordbrukstek. Inst. Meddel. 218, 82 p. Uppsala, 1948. 58.9 J762
- English summary.
- 5188 BROOKS, W. W. The farm wife's "magic lamp." Farm & Ranch 67(10): 48-49. Oct. 1948. 6 T31
- Electric water system for the farm home.
- 5189 CANCELLARA, E. Didactic and experimental organization for the study of agricultural hydraulics. (In Italian.) Risveglio Agr. 7: 234-238. July 15/31, 1948. 16 R49
- 5190 DRIFTMIER, R. H. Having water pump troubles? These specific rules should help you to get rid of them. Prog. Farmer, Miss.-Ark.-La. Ed. 63(10): 42, 79. Oct. 1948. 6 So81
- 5191 FEW, F. G. Farm water supplies and their treatment. Queensland Agr. J. 66: 366-368. June 1948. 23 Q33
- 5192 GALLARATE, G. Functional tests on the Mazzoli pump system. (In Italian.) Macch. e Motori Agr. 6: 397-405. Sept. 1948. 58.8 M13
- 5193 MÄNSSON, E. Better drinking water in pastures. (In Swedish.) Ladugården 1947: 52-53. June/July 1948. 44.8 L12
- 5194 MEDINA, M. DE. Complemento al curso de hidráulica agrícola. Agros (ser. 8) 9(3): 54-63. Oct. 1947. 9.9 Ag82
- 5195 MEDON, G. Die auswahl des brunnenbauplatzes. Deut. Bauerntech. 2(5/6): 19-21. May/June 1948. 58.8 D48
- 5196 SCHAUDER, R. Union's only artesian water basin; development of Coega and Zwartkops Valley's supply will stop loss of strong streams into sea. Farmer's Weekly [Bloemfontein] 75: 113. Aug. 18, 1948. 24 F225

AGRICULTURAL PRODUCTS: PROCESSING,  
DISTRIBUTION, AND STATISTICSGENERAL

- 5197 AUSMAN, L. H. Belgian Congo produces primary materials needed by industry. Foreign Trade 4: 455-460. Sept. 4, 1948. 286.8 C162
- Includes agricultural products.
- 5198 BAKER, O. E. Plan now or starve. Commonweal 48: 490-493. Sept. 3, 1948. 280.8 C735
- 5199 BÖKER, H. Die deutsche ernährungswirtschaft und der deutsche aussenhandel. Kiel, 1948. 91 p. 280.175 B63
- 5200 BRENIER, H. Note sur l'industrialisation de l'Indochine. Marseille. Inst. Colon. Cahiers Colon., n. s., 1947(3): 11-17. Dec. 1947. 286.8 M35
- Includes the possibilities of the agricultural products industries.

- 5201 BROCK, A. A. World production of principal foods. Calif. Dept. Agr. B. 37: 105-109. July/Sept. 1948. 2 C12M

- 5202 CHAO, L. F. Food production program of China. China. Min. Agr. and Forestry. Misc. P. 1: 7-8. Apr. 1948. 22.5 C4412M

- 5203 CHRISTENSEN, R. P. Food patterns for the future. Agr. Situation 32(9): 1, 3-4. Sept. 1948. 1 Ec7Ag

- 5204 CUMMINGS, N. Some thoughts about the food industry. (Excerpts.) Calif. Retail Grocers Advocate 53(38): 154-155, 165. Sept. 17, 1948. 288.28 C12

- 5205 FUGOSO, V. Manilans must produce food. Agr.-Com.-Indus. Life 10(8): 6-7. Aug. 1948. 25 Ag8

- 5206 GANTER-GILMANS, H. P. Der zweijahresplan und die versorgungswirtschaft. Versorgung 3(1): 1-2. Aug. 1948. 280.8 V61
- Russian Zone of Germany.

- 5207 GROCERY MANUFACTURERS OF AMERICA, INC. The food industry looks ahead with you. New York, 1948. 22 p. 389 G89

- 5208 KITCHEN, C. W. World food shortages continue. East. Fruit Grower 10(9): 29, 32. Nov. 1947. 80 Ea73

- 5209 MADRAS PROVINCIAL PEOPLE'S FOOD CONFERENCE. How you can help in this food crisis. (Proceedings...10th August 1947). Madras, 1947. 29 p. 389.9 M262

- 5210 MARRACK, J. R. Hot springs and FAO. Nutr. Dietet. Catering 2: 93-96. Autumn 1948. 389.8 N959

- 5211 MORROS SARDÀ, J. Necesidades alimenticias de la población valenciana, especialmente de alimentos de origen animal. Agr. Levantino 14(160): 61-62; (163): 9-10; (164): 9-10. Mar.-July. 1948. 15 Ag85

- 5212 NATIONAL RESEARCH COUNCIL. FOOD AND NUTRITION BOARD. Survey of food and nutrition research in the United States, 1947. Washington, D. C. ? 1948. 306 p. 389.9 N2135S

- Includes plant and animal physiology, and food chemistry, technology, economics, bacteriology, and acceptance.

- 5213 OBERDÖRSTER, E. Die versorgungsschwierigkeiten im wirtschaftsjahr 1947/1948. Versorgung 2: 179-180. July 1948. 280.8 V61
- Russian Zone of Germany.

- 5214 OGG, W. R. A look at Germany. Nation's Agr. 23(9): 10, 20-22. Oct. 1948. 280.82 B89
- Food.

- 5215 ORR, SIR J. B. World food policy for peace. Land Worker 29(353): 1, 3. Oct. 1948. 283.8 L22

- 5216 OVALTINE RESEARCH LABORATORIES. Annual report (1947). London, 1947. 389.9 Ov1

- 5217 PAGUIRIGAN, D. B. Outline of Philippine crops. Agr.-Com.-Indus. Life 10(8): 16-17, 34. Aug. 1948. 25 Ag8

- 5218 RAHEJA, P. C. Measures to expand production of food. North-West Frontier Prov., India. Dept. Agr. Q. Notes 9: 4-9. Jan./Apr. 1947. 22 N814

- 5219 RENNEFELD, J. Speisekammergesetz und hortung. Landtechnik 3: 53-54. Feb. 29, 1948. 58.8 L235
- Germany.

- 5220 RITTER, K. Grundsätze der versorgungsplanung. Versorgung 3(1): 3-5. Aug. 1948. 280.8 V61
- Russian Zone of Germany.

- 5221 ROBERTSON, G. S. Food for the future. Internatl. Indus. 29: 446-447. Oct. 1948. 382 In8

- 5222 SCARSETH, G. D. Farming and freedom. Hoosier Farmer 33(9): 42. Sept. 1948. 280.82 H76
- Population and food supply.

- 5223 SCHAFER, B. Zur neuregelung des selbstversorgerproblems. Versorgung 3(1): 6-9. Aug. 1948. 280.8 V61
- Russian Zone of Germany.

- 5224 SHEN, H. Y. Food production situation of China. China. Min. Agr. and Forestry. Misc. P. 1: 6. Apr. 1948. 22.5 C4412M

- 5225 SOLANO Y AGUIRRE, F. Los cultivos de la Maresma. Cult. Mod. 31: 296. Aug. 1948. 15 C89
- Spain.

- 5226 SUMMERS, T. H. Report of Committee on Correlation of Food and Feed Conservation to existing programs of the Southern Great Plains Council. Great Plains Agr. Council. South. Div. Minutes 1948: 72-73. 282.9 R26



5227 TEAKLE, L. J. H. Meeting world food needs. (Sum.) Austral. Chem. Inst. J. & Proc. 15: 207. July 1948. 385 Au72

5228 TOWNSEND, J. C., JR. Large harvests are prospect: fall crop report shows increase in production. Fla. Grower 56(10): 12. Oct. 1948. 80 M72

5229 VEEN, A. G. VAN. The present lack of food and food problems of Indonesia. (In Dutch.) Chron. Nat. 104: 184-187. June 1948. 514 B31

5230 WAGENIUS, Å. Food supply in Bizonia according to the Marshall plan. (In Swedish.) Sweden. Kom-merskol. Jordbruksekonom. Uppgifter 10: 183-190. July 1948. 257.3 J76

5231 WENG, C. Y. Remedies for the present food crisis. (In Chinese.) Monthly Farmers' Bank China 9 (3): 1-8. Mar. 1948. 281.9 F225M  
English summaries.

5232 WILLIAMS, J. J. The dear food policy. Amer. Aff. 10: 220-222. Oct. 1948. 280.8 N214E

5233 YU, F. P. One year of food administration. (In Chinese.) Monthly Farmers' Bank China 9(4): 11-22. Apr. 1948. 281.9 F225M  
English summary.

#### ANALYSIS AND COMPOSITION

5234 ARMITAGE, E. R., ASHWORTH, R. DE B., and FERGUSON, W. S. The determination of lignin in plant material of high protein content. Soc. Chem. Indust. J. 67: 241-243. June 1948. 382 M31

5235 BICKOFF, E. M., and others. Isolation and spectrophotometric characterization of four carotene isomers. Assoc. Off. Agr. Chem. J. 31: 633-646. Ref. Aug. 15, 1948. 381 As7

L. M. White, A. Bevenue, and K. T. Williams, joint authors.

5236 CHAMBERLAYNE, E. C. The Jamieson kit—its construction and use. J. Milk & Food Technol. 2(5): 301-309. Sept./Oct. 1948. 44.8 J824

Tests for sanitary condition of food equipment and utensils.

5237 FERNANDEZ, O. Estudio químico de varias féculas. 2. Acetilación y metilación. Ion 8: 381-388. Ref. June 1948. 385 I66

5238 FINE, S. D. Report on iodine. Assoc. Off. Agr. Chem. J. 31: 560-562. Aug. 15, 1948. 381 As7

5239 FLYNN, L. M. Report on folic acid. Assoc. Off. Agr. Chem. J. 31: 466-473. Ref. Aug. 15, 1948. 381 As7

5240 GILLESPIE, T. G. The heat resistance of the spores of thermophilic bacteria. I. Introductory. Bristol U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1946: 40-51. 389.9 B77A

5241 GILLESPIE, T. G. The heat resistance of the spores of thermophilic bacteria. II. Thermophilic anaerobes. Bristol. U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1947: 40-54. 389.9 B77A

5242 GILLESPIE, T. G. Studies on the mould Bys-soclamys fulva. IV. Bristol U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1946: 31-39. 389.9 B77A  
Heat resistance.

5243 HORN, M. J., JONES, D. B., and BLUM, A. E. Microbiological determination of arginine in proteins and foods. J. Biol. Chem. 176(1): 59-63. Ref. Oct. 1948. 381 J824

5244 HOSTETTLER, H., SCHILT, P., and HÄNNI, H. Die mercurimetrische bestimmung des chlor- bzw. kochsalzgehaltes von milch, käse, butter und anderen milcherzeugnissen, sowie einigen weiteren nahrungs- und futtermitteln (honig, fleisch, wurst, fischmehl). Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hygiene 39(1/3): 93-114. Ref. 1948. 389.9 Sw6  
Summaries in French and English.

5245 JOHNSON, B. C. Methods of vitamin determination. Minneapolis, Burgess, 1948. 109 p. 387.1 J632

5246 KAUSCHE, G. A., and HAHN, F. Über die kohlehydratkomponente der nukleinsäuren einiger pflanzlicher virusproteine. Makromolekulare Chem. 2: 113-119. Aug. 1948. 384 M28

5247 KIGER, J., and BOIVIN, R. Méthode pratique de recherche et de dosage des oeufs dans les pâtes alimentaires "aux oeufs." Chim. Analyt. 30: 172-179. Ref. Aug. 1948. 383 An72

5248 KIND, P. A. Report on jelly strength. Assoc. Off. Agr. Chem. J. 31: 511-512. Aug. 15, 1948. 381 As7

5249 KLINE, O. L. Report on thiamine. Assoc. Off. Agr. Chem. J. 31: 455-459. Aug. 15, 1948. 381 As7

5250 LAHOUSSE, J. Les procédés optiques de dosage des vitamines A et D. II. Chim. & Indust. 60: 241-247. Ref. Sept. 1948. 383 C42

5251 LEVIEN, B. J. Chemistry in the meat industry in New Zealand. (Sum.) Austral. Chem. Inst. J. & Proc. 15: 207. July 1948. 385 Au72

5252 MCCARTHY, W. J. Report on benzoic and vanillic acid esters. Assoc. Off. Agr. Chem. J. 31: 478-479. Aug. 15, 1948. 381 As7

5253 MCROBERTS, L. H. Report on mold inhibitors, propionates. Assoc. Off. Agr. Chem. J. 31: 489-497. Aug. 15, 1948. 381 As7  
In bakery products.

5254 MATHIS, W. T. Report on spectrographic methods. Assoc. Off. Agr. Chem. J. 31: 562-564. Aug. 15, 1948. 381 As7

5255 MYRBÄCK, K. The structure of starch. Wal-lerstein Labs. Commun. 11: 209-219. Ref. Sept. 1948. 390.9 W18

Summary in French and Spanish.

5256 NEWMAN, R. W. The test for urease production as a means of detecting proteus contamination of Salmonella-shigella cultures. Calif. Dept. Agr. B. 37: 157-165. Ref. July/Sept. 1948. 2 C12M

5257 OAKLEY, M. Report on saccharin. Assoc. Off. Agr. Chem. J. 31: 479-480. Aug. 15, 1948. 381 As7

5258 OGG, C. L., BRAND, R. W., and WILLITS, C. O. Micro and semimicro determination of nitrogen in heterocyclic nitrogen ring compounds by a Kjeldahl method. Assoc. Off. Agr. Chem. J. 31: 663-669. Aug. 15, 1948. 381 As7

5259 QUACKENBUSH, F. W. Report on carotene. Assoc. Off. Agr. Chem. J. 31: 459-466. Aug. 15, 1948. 381 As7

5260 ROWE, S. C. Report on gelatin, dessert preparations, and mixes. Assoc. Off. Agr. Chem. J. 31: 511. Aug. 15, 1948. 381 As7

5261 SLOCUM, G. G. Report on microbiological methods. Assoc. Off. Agr. Chem. J. 31: 518-519. Aug. 15, 1948. 381 As7

5262 SMITH, F. The constitution of carob gum. Amer. Chem. Soc. J. 70: 3249-3253. Oct. 1948. 381 Am33J

5263 WHITE, L. M., SECOR, G. E., and LONG, M. D. C. Determination of the nitrogen content of proteins and amino acids containing refractory nitrogen by micro- and macrokjeldahl methods. Assoc. Off. Agr. Chem. J. 31: 657-662. Ref. Aug. 15, 1948. 381 As7

5264 WILLITS, C. O., and OGG, C. L. Report on microchemical methods. Assoc. Off. Agr. Chem. J. 31: 565-566. Aug. 15, 1948. 381 As7

5265 WILSON, J. B. Report on monochloroacetic acid. Assoc. Off. Agr. Chem. J. 31: 484-489. Aug. 15, 1948. 381 As7

5266 WILSON, J. B. Report on quaternary ammonium compounds in foods. Assoc. Off. Agr. Chem. J. 31: 480-484. Aug. 15, 1948. 381 As7

5267 WINKLER, W. O. Report on thiourea in foods. Assoc. Off. Agr. Chem. J. 31: 476-478. Aug. 15, 1948. 381 As7

#### CONSUMPTION AND UTILIZATION

5268 BERGAMINO GIURIA, A. Qué es la quimurgia agrícola? Agros (ser. 8) 9(3): 64-67. Oct. 1947. 9.9 Ag82

5269 HALE, W. J. Chemurgic alcohol the salvation of the nation. 2-3. Seed Trade News 51(13): 7; (14): 5. Sept. 29, Oct. 6, 1948. 61.8 Se3

5270 MCFARLANE, W. D. Chemurgy in Canada. Chemurg. Digest 7(9): 22-26. Sept. 1948. 381 N213Na

5271 RUSSELL, E. W. Chemurgy urged as aid for British Empire. Chemurg. Digest 7(10): 10-11. Oct. 1948. 381 N213Na

5272 SCOTT, R. C. All income groups use frozen foods, survey indicates. Farm Res. [N. Y. State Sta.] 14(4): 4. Oct. 1948. 100 N48A

#### DISTRIBUTION, MARKETING, AND TRANSPORTATION

5273 ACOSTA, H. Grandes cosechas de América ante el peligro de ruñosa competencia. Rev. del Café 4(3): 29-31. Aug. 1948. 9 R3295



5274 ANDERS, W. Vortermimässige ablieferung?  
Versorgung 2: 185. July 1948. 280.8 V61  
Russian Zone of Germany.

5275 ARCHER, L. T. Soil and life have a common  
mooring. Farmer's Weekly [Bloemfontein] 75: 111, 113.  
Aug. 11, 1948. 24 F225  
Food distribution methods.

5276 ASCHENBRENNER, F. Unterbindung des  
verkaufs ab hof. Versorgung 3(1): 9. Aug. 1948.  
280.8 V61  
Russian Zone of Germany.

5277 ASMIS, W. Die Marktabteilung der Deutschen  
Landwirtschaftsgesellschaft. Neue Mitt. f. die Landw.  
3: 95, 195. Apr. 5, 1948. 18 N39

5278 BRADY, D. S., and BARBER, H. A. The pat-  
tern of food expenditures. Rev. Econ. & Statis. 30: 198-  
206. Aug. 1948. 251.8 R52

5279 COOK, G. A. Tired of booms and busts, B.C.'s  
producers work to get marketing board. Country Life  
[Vernon] 32(9): 11. Sept. 1948. 7 C832

5280 CROW, W. C. Better markets for larger  
crops. Agr. Situation 32(9): 12-14. Sept. 1948.  
1 Ec7Ag

5281 DAVIS, L. M. History, importance of Market  
News Service. Cheese Rptr. 73(8): 6, 22. Oct. 15, 1948.  
44.8 Sh3

5282 DICKMAN, P. Problems of getting better  
marketing practices adopted. Mkt. Growers J. 77(9):  
7, 35, 39, 41. Sept. 1948. 6 M34

5283 EBBS, J. C. Food via the Quartermaster  
General. Nutr. News 12(1): 1. Oct. 1948. 389.8 N957

5284 FOSTER, G. M. The folk economy of rural  
Mexico with special reference to marketing. J. Mktg.  
13: 153-162. Oct. 1948. 280.38 J82

5285 HOLMSTRÖM, S. The cooperative marketing  
movement during the year 1947. (In Swedish.) Lant-  
mannen 32: 564-566. Aug. 21, 1948. 11 L234

5286 HOLMSTRÖM, S. The farm marketing coop-  
erative movement during the year 1947. (In Swedish.)  
Lantmannen 32: 596, 598. Sept. 4, 1948. 11 L234

5287 MORSE, R. B. Decals on trucks provide  
valuable advertising. Canning Trade 71(10): 8, 19.  
Sept. 27, 1948. 286.83 T67

5288 MYRICK, N. Public relations. Amer. Milk  
Rev. 10(10): 2-4, 76. Oct. 1948. 44.8 Am38

5289 PARDO SUAREZ, R. Los mercados del Ma-  
drid antiguo. III. Aliment. Nac. 7(121): 3, 10. June 10,  
1948. 389.8 AL42

5290 PHILLIPS, C. F., and DUNCAN, D. J. Mar-  
keting: principles and methods. Chicago, Irwin, 1948.  
729 p. 280.3 P542Mp  
Contains chapters on marketing of agricultural products  
and cooperative marketing by farmers.

5291 SEGNI, A. Pooling by quota. (In Italian.)  
Glor. di Agr. 58: 251. Sept. 19, 1948. 16 It1G

5292 TARDY, L. Marché central. Colon Franç.  
de Tunisie (ser. 7) 58(2058): 1-2. July 31, 1948.  
24 C712

5293 U. S. COMMODITY EXCHANGE AUTHORITY.  
Commodity Exchange Act as amended. Rules and regula-  
tions of the Secretary of Agriculture promulgated there-  
under. Rev. Washington, 1948. 90 p. 1 C73C

5294 VASSOGNE, G. Un camion réfrigérant. Rev.  
Prat. du Froid 3(10): 35-36. Sept. 1948. 295.8 R323

5295 WANSTALL, G. Statistics of farmers' mar-  
keting and purchasing cooperatives, 1945-46. U. S.  
Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt.  
119, 54 p. June 1948. 166.3 M68

5296 WEBSTER, B. Buffalo's Niagara Frontier  
Food Terminal. Fruit & Veg. Rev. 9(6): 18-19, 24.  
Sept. 1948. 80 C1224

#### GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

5297 ATKINSON, N. The microbiology and preser-  
vation of food. 3. Food in the transmission of infectious  
disease. Refrig. J. 1: 548, 550, 552, 554, 556, 558.  
June 1948. 295.8 R255

5298 CONSIDINE, D. M. Weight control basic  
measurement in industry. Food Indus. 20: 1443-1454.  
Oct. 1948. 389.8 F737

5299 GASSMANN, Z., and ORANGER, L. D. Food  
laws aid health. Ill. Dept. Agr. Ann. Rpt. 30: 121-127.  
1947. 2 IL6R

5300 GREAT BRITAIN. MINISTRY OF HEALTH.  
Report... for the year ended 31st March 1947, including  
the report of the Chief Medical Officer on the state of the  
public health for the year ended 31st December 1946:  
London, 1948. 204 p. 44.9 G79A

Contains report on food poisoning.

5301 HSIANG, Y. T. Standardization of agricultural  
commodities. China. Min. Agr. and Forestry. Misc. P.  
1: 56-57. Apr. 1948. 22.5 C4412M

5302 PADDOCK, J. M. New regulations adopted.  
Ill. Dept. Agr. Ann. Rpt. 30: 266-274. 1947. 2 IL6R  
Weights and measures.

5303 PATTERSON, W. I. Report on decomposition  
in foods. Assoc. Off. Agr. Chem. J. 31: 501. Aug. 15,  
1948. 381 As7

5304 REYNELL, P. C. A food-borne outbreak of  
streptococcal infection. J. Hyg. [London] 46: 148-150.  
Ref. July 1948. 449.8 J82

5305 SECOR, E. C. Demand quality products.  
Ill. Dept. Agr. Ann. Rpt. 30: 181-196. 1947. 2 IL6R  
Inspection.

5306 SULLIVAN, T. E. The effect of uniform legis-  
lation on State control. Assoc. Food & Drug Off. U. S.  
Q. B. 12: 122-129. Oct. 1948. 389.9 As7Q  
Food and drug regulation.

5307 WRIGHT, E. Activity in the promotion of uni-  
form food, drug, and cosmetic legislation. Assoc. Food &  
Drug Off. U. S. Q. B. 12: 120-121. Oct. 1948.  
389.9 As7Q

#### PACKING AND PACKAGING

5308 BROOK, T. Improvement in packing methods  
can enlarge our export markets. Food Canada 8(9): 29-  
32. Sept. 1948. 389.8 F7323

5309 COUCH, R. DE S. Significant new packaging  
materials. (Sum.) Mod. Packaging 22(1): 148-149.  
Sept. 1948. 309.8 M72

5310 CULLOM, W. F. Pre-packaging: a new  
science. Good Packaging 9(9): 25-26, 28. Sept. 1948.  
280.38 G59  
Fresh foods.

5311 FIFE, R. R. Accelerated package testing.  
Canad. Food Indus. 19(10): 28-29. Oct. 1948.  
286.83 C166

Cellophane packaging.

5312 KATZ, L. Hotcan: self-heating food container.  
Food Packer 29(12): 50-51. Nov. 1948. 286.83 C165

5313 LARSEN, S. A. A consumer challenge to pre-  
packaging. Pre-Pack-Age 2(1): 26, 28. Sept. 1948.  
280.38 P91

5314 MACLAY, W. D., and OWENS, H. S. Pectinate  
films; fruit by-product provides edible package with good  
possibilities for candied fruits, meats and frozen foods.  
Mod. Packaging 22(1): 157-158. Sept. 1948. 309.8 M72

5315 MRAK, V. G. The consumer looks at the pack-  
age. (Sum.) Mod. Packaging 22(1): 146-147. Sept.  
1948. 309.8 M72

5316 SALTER, W. J. Wrap around labels adapted  
to frozen food packages. West. Canner & Packer 40(11):  
57-59. Oct. 1948. 286.83 W522

5317 SCHWARZ, T. A. Functional values of unit  
packages. (Sum.) Mod. Packaging 22(1): 149-150.  
Sept. 1948. 309.8 M72

5318 SEIFERT, E. M., JR. Feature prepackaging at  
western show. Pre-Pack-Age 2(1): 8-10. Sept. 1948.  
280.38 P91

5319 SEIFERT, E. M., JR. Prepackaging needs  
more cooperation from the materials manufacturers.  
Fruit & Veg. Rev. 9(6): 20-21, 25. Sept. 1948. 80 C1224

#### PRICES, PRICE CONTROL, AND RATIONING

5320 BABSON, R. W. Farm prices. Com. &  
Financ. Chron. 168: 1325. Sept. 30, 1948. 286.8 C73

5321 CASE, H. C. M. New farm law long-range  
price support program is compromise, economist says.  
Northwest Farm Equip. J. 62(10): 12-13. Oct. 1948.  
58.8 F222

5322 DANN, A. C. Farm workers' rations. Land  
Worker 29(353): 6. Oct. 1948. 283.8 L22  
Great Britain.



- 5323 THE FEDERAL farm program and the crop outlook. Guaranty Survey 28(6): 1-4. Sept. 29, 1948. 284.8 G93  
Chiefly on price supports.
- 5324 FEDERAL RESERVE BANK OF KANSAS CITY. New agricultural price supports. Fed. Reserve Bank Kansas City. Monthly Rev. 33(9): 1-4. Sept. 30, 1948. 284.8 F31K
- 5325 GROOTEN, R. L'évolution des prix agricoles de 1939 à 1946. Rev. de l'Agr. 1: 99-107. Feb. 1948. 13 R322  
Belgium.
- 5326 JAMISON, H. Caution is in order; future of farm prices looks less hopeful. Pure Milk 22(10): 11. Oct. 1948. 280.28 P97
- 5327 KELL, J. Le calcul d'un index maraîcher. Rev. de l'Agr. 1: 108-113. Feb. 1948. 13 R322  
Prices.
- 5328 KINGET, R. L'évolution des prix agricoles au cours de l'année 1947. Rev. de l'Agr. 1: 195-203. Mar. 1948. 13 R322  
Belgium.
- 5329 KOERNICH. Die preisentwicklung nach der währungsreform. Landtechnik 3: 222-223. July 31, 1948. 58.8 L235  
Germany.
- 5330 LEE, I. M. Price supports; Agricultural Act of 1948 provides a more flexible system. Calif. Agr. [Calif. Sta.] 2(10): 2, 12. Oct. 1948. 100 C12Cag
- 5331 LEE, K. C. Trends of price fluctuations in Chengtu during the last ten years. (In Chinese.) Monthly Farmers' Bank China 9(2): 24-30. Feb. 1948. 281.9 F225M
- 5332 LEITH, W. G. The price support muddle. Eggsaminer 25(9): 4. Sept. 1948. 286.85 Eg32
- 5333 LUCK, J. M. Food prices in Palo Alto. Science 108: 425-426. Oct. 22, 1948. 470 Sci2
- 5334 MAUCH, A. The new farm program. Mich. Farmer 210: 178, 203. Sept. 18, 1948. 6 M58  
New parity price formula.
- 5335 OGREN, K. E. The new parity formula. Minn. U. Agr. Farm Business Notes 307: 4. Aug. 30, 1948. 275.29 M663
- 5336 PARVIN, D. W., and REDMAN, J. C. Price index shifts slightly in favor of Mississippi farmers. Miss. Farm Res. [Miss. Sta.] 11(10): 5. Oct. 1948. 100 M69Mi
- 5337 PARVIN, D. W., and REDMAN, J. C. Selling prices down and buying prices up for State farmers. Miss. Farm Res. [Miss. Sta.] 11(9): 6. 100 M69Mi
- 5338 PEARSON, F. A., and MYERS, W. L. Prices and presidents. N. Y. Agr. Col. Farm Econ. 163: 4210-4218. Sept. 1948. 280.8 C812
- 5339 PLATT, F. L. This high price level; will it continue indefinitely? Amer. Poultry J. 79(9): 16, 18-20. Sept. 1948. 47.8 Am32
- 5340 REDMAN, J. C. Support prices of basic commodities are extended by new legislative acts. Miss. Farm Res. [Miss. Sta.] 11(10): 8. Oct. 1948. 100 M69Mi
- 5341 REITZ, T. R. Farm price supports are being attacked! Kans. Farmer 85(19): 30. Oct. 2, 1948. 6 K13
- 5342 ROMON, H. Indices et rentabilité. Nord Agr. 4(43/44): 1. Sept. 4, 1948. 14 N75  
Prices.
- 5343 SANDIFER, T. N. Farm price drop may result in revised laws. Natl. Live Stock Prod. 27(2): 13. Nov. 1948. 280.38 N21
- 5344 SANDIFER, T. N. Farm price supports now widely criticized. Natl. Live Stock Prod. 27(1): 11, 19. Oct. 1948. 280.38 N21
- 5345 SCHENCK, H. E. Support price program attacked; every farmer should be alerted. Hoosier Farmer 33(10): 7. Oct. 1948. 280.82 H76
- 5346 SCHWEIZERISCHES BAUERNSEKRETARIAT. Preise landwirtschaftlicher erzeugnisse und ernteerträge in der Schweiz 1947. Landw. Jahrb. der Schweiz 62: 499-546. 1948. 17 L23  
Text also in French.
- 5347 SIMS, J. W. We must tell the farmer's story. Ohio Farm Bur. News 28(3): 7. Oct. 1948. 6 Oh34  
Farm prices.
- 5348 SMITH, M. G. Are food prices too high? Ohio Farmer 202(7): 9, 30. Oct. 2, 1948. 6 Oh3
- 5349 STRUNZ, H. Preissteigerung und steuererhöhung. Gartenbauwirtschaft 1947(12): 7. Dec. 1947. 80 G1922  
Austria.
- 5350 THUN, N. The always dissatisfied farmers. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(24): 5. June 14, 1947. 11 J762  
Chiefly on farm prices in Sweden.
- 5351 TSIEN, Y. N. Commodity prices in various localities. (In Chinese.) Monthly Farmers' Bank China 9(4): 64-69. Apr. 1948. 281.9 F225M
- 5352 TUTTLE, D. H. A comparative food cost study. J. Home Econ. 40: 451-452. Oct. 1948. 321.8 J82
- 5353 WALSH, R. M. Statistics and research in the field of price analysis. Washington? U. S. Prod. and Mktg. Admin., 1948. 11 p. 1.941 A2W16
- 5354 WELLS, K. M. Farmers at four corners speak out on prices. Ontario Milk Prod. 24: 116-117. Oct. 1948. 44.8 On8
- 5355 ZULUETA, M. M. DE. Números índices de precios agrícolas españoles de los años 1946 y 1947. Spain. Inst. Nac. de Invest. Agron. B. 18: 241-252. June 1948. 105.6 Sp14
- 5356 ZUR LÖSUNG des agrarpreisproblems. Ver. Österr. Inst. f. Wirtschaftsforsch. Monatsber. 21: 253-263. Aug. 7, 1948. 280.9 V672

## PROCESSING AND STORAGE

- 5357 BARTON-WRIGHT, E. C., and DAWSON, E. R. The fermentation industries. Soc. Chem. Indus. Rpts. Prog. Appl. Chem. 32: 389-401. Ref. 1947. 382 M31R
- 5358 BATSON, R. H. The future of the refrigeration industry in relation to the present economic condition of the country [Great Britain]. Mod. Refrig. 51: 262-263. Oct. 1948. 295.8 M72
- 5359 BURT, D. S. Meat, men and the tin can. II. Packaging Systems 4(8): 25-27. Sept. 1948. 309.8 P126  
History of the canning industry.
- 5360 CLAYSON, D. H. F. Food preservation and refrigeration. Nutr. Dietet. Catering 2: 97-102. Autumn 1948. 389.8 N959
- 5361 CORRAN, J. W. Starches. Soc. Chem. Indus. Rpts. Prog. Appl. Chem. 32: 362-370. Ref. 1947. 382 M31R  
Manufacture and analysis.
- 5362 COX, H. E. Foods. Soc. Chem. Indus. Rpts. Prog. Appl. Chem. 32: 377-388. Ref. 1947. 382 M31R  
Processing.
- 5363 EARP, U. F. Developments in multi-purpose farm refrigeration. (Abs.) Va. Acad. Sci. Proc. 1947/48: 66. 1948. 500 V81
- 5364 EHEART, M. S. The effects of various types of processing on the vitamin values of foods. (Abs.) Va. Acad. Sci. Proc. 1947/48: 69. 1948. 500 V81
- 5365 ERWIN, R. L. Farm and home freezers. Farm & Home Res. [Ohio Sta.] 33: 116-121. July/Aug. 1948. 100 Oh3S
- 5366 ESSIPOFF, M. A. Freeze to please. Gourmet 8(11): 22-23, 79-83. Nov. 1948. 389.8 G74  
Home freezing.
- 5367 FINNEGAN, W. J. Factors to be considered in the evaluation of food freezing methods. Frozen Food Indus. 4(10): 6-7, 21-22. Oct. 1948. 389.8 F93
- 5368 FINZI, E. The practice of biological enrichment of bread and food pastes. (In Italian.) Alimenti 4: 148-153. July/Aug. 1948. 389.8 AL44
- 5369 FRIESE-FICKENSCHER, L. Praktische winke zur einmachzeit. Neue Mitt. f. die Landw. 3: 274-275. Sept. 5, 1948. 18 M39
- 5370 HAMMOND, A. E. A new freezing technique. Fruit, Flower & Veg. Trades' J. 94: 315. Sept. 4, 1948. 80 F946
- 5371 HAMMOND, A. E. Pioneering with quick-frozen foods in Sussex. Fruit, Flower & Veg. Trades' J. 94: 212-213. Aug. 14, 1948. 80 F946
- 5372 HAMMOND, A. E. Quick-frozen foods in Warwickshire. Fruit, Flower & Veg. Trades' J. 94: 112-113. July 24, 1948. 80 F946



5373 HORNE, L. W., STEVENS, H. H., and THOMPSON, J. B. The effect of shortening stability on commercially produced army ration biscuits. I. Initial data and results of accelerated stability tests. Amer. Oil Chem. Soc. J. 25: 314-318. Ref. Sept. 1948. 307.8 J82

5374 HOWE, J. Quick-freeze is here to stay; rent locker space to members. Co-op. Rev. 22: 195. Sept. 1948. 280.28 C7823

5375 JEANSON, P. Le froid industriel au service des producteurs. Monit. Agr. 1(27): 6. July 18, 1948. 14 M744

5376 KEMENY, V. Sanitation in the food industry. (In Italian.) Humus 4: 22-23. Jan. 1948. 16 H88

5377 LODI, G. Applications of lecithin in the food industries. (In Italian.) Gior. dei Pasticcieri e Confettieri 56: 223-224. July 1948. 389.8 G432

5378 MACKENZIE, J. Freezing problems in Scotland. Frosted Food Field 7(4): 2-3. Sept. 1948. 389.8 F922

5379 MACLINN, W. A. Facts equipment distributors should know about freezers. Frosted Food Field 7(4): 3-7. 9. Sept. 1948. 389.8 F922

5380 MACLINN, W. A., and DOERMANN, M. C. Frozen foods. N. J. Agr. Col. Ext. B. 249, 20 p. May 1948. 275.29 M46

5381 MILLER, F. A. Advanced design, gravity flow save labor and machines. Food Indus. 20: 1426-1431, 1559-1561. Oct. 1948. 389.8 F737

5382 MOSSEL, A. A., and PETERS, H. J. Biochemical aspects of the manufacture and control of processed foods. (In Dutch.) Voeding 9: 137-150. Ref. Aug. 15, 1948. 389.8 V85

English summary.

5383 OLIVE, T. R. Freeze-concentration process employs new approach. Food Indus. 20: 1432-1433. Oct. 1948. 389.8 F737

5384 OSER, B. L. Grocery stores best source of vitamins; food processors are urged to retain or replace more of the essential nutrients. Food Indus. 20: 1440-1442, 1568. Oct. 1948. 389.8 F737

5385 PAVLOVSKI, W. L. Frozen foods have arrived! Food retailing 141(7): 9-10. Oct. 1948. 286.85 B974

5386 SCHWARZ, H. W. Dehydration of heat-sensitive materials. Indus. & Engin. Chem. 40: 2028-2033. Ref. Nov. 1948. 381 J825

Food equipment.

5387 SIMPSON, J. I., and TAYLOR, D. M. Pointers on home freezing from "The Frozen Food Cook Book." Refrig. Engin. 56: 324-326, 334. Oct. 1948. 295.9 Am32J

5388 SLATER, L. E. The role of control instruments in continuous processing. Food Packer 29(12): 46-48. Nov. 1948. 286.83 C165

5389 TÄUFEL, K. Vorratsschutz der lebensmittel als gemeinschaftsaufgabe von lebensmittelchemie und lebensmitteltechnologie. Versorgung 2: 180-183. July 1948. 280.8 V61

5390 THEVENOT, R. La chaîne du froid. Colon Franc. de Tunisie (ser. 7) 58(2058): 1-2. (Cont.) July 31, 1948. 24 C712

5391 U. S. S. R. GLAVNCE UPRAVLENIE KONSERVNOI PROMYSHLENNOSTI. Spravochnik konservshchika [Handbook for the canner]. Moskva, Pishchepromizdat, 1947. v. 1, 362 p. 389.3 Un314

5392 U. S. S. R. GLAVNOE UPRAVLENIE KHOLODIL'NOI PROMYSHLENNOSTI. Tekhnologiya khraneniya skoroprotishchikhskh produktov na kholodil'nikakh [Cold storage of perishables]. Moskva, 1947. 213 p. 389.3 Un313

5393 VERNON, J. V. Much of success in food conservation credited to the chemical industry. Agr. Chem. 3(10): 33-35. Oct. 1948. 381 Ag8

5394 WEBER, G. R., and BLACK, L. A. Laboratory procedure for evaluating practical performance of quaternary ammonium and other germicides proposed for sanitizing food utensils. Amer. J. Pub. Health 38: 1405-1417. Ref. Oct. 1948. 449.9 Am3J

5395 WEGNER, H. Stärkeveredlungserzeugnisse. Versorgung 2: 184-185. July 1948. 280.8 V61

5396 WESTLING, L. L. Handling and stowage of ship's perishable cargoes. Refrig. Engin. 56, Refrig. Engin. Appl. Data 43, 8 p. Oct. 1948. 295.9 Am32J

5397 WOLFF, O. 65 Jahre Forschungsinstitut für Stärkefabrikation. Versorgung 2: 183. July 1948. 280.8 V61

5398 ZIEMBA, J. V. Frozen dinners. Food Indus. 20: 1434-1437. Oct. 1948. 389.8 F737

## STATISTICS

5399 BECKER, J. A. Report on the 1946 census of agriculture and the agricultural statistical services of Cuba to the Minister of Agriculture, Government of Cuba. Washington? 1948. 25 p. 254.8 C8923

5400 COSTA RICA. DIRECCIÓN GENERAL DE ESTADÍSTICA. Informe, año 1946. San José, 1947. 152 p. 254 C82In

Includes agricultural statistics.

5401 GROSSERER-SOCIETETETS KOMITE. General review from "The world markets and Denmark" during 1947, by J. Vestberg. Copenhagen, 1948. 40 p. 257.1 C792

Contains agricultural statistics.

5402 ITALY. ISTITUTO CENTRALE DI STATISTICA. Sommario statistico delle regioni d'Italia. Roma, 1947. 248 p. 261 It15S

Includes agricultural statistics.

5403 JENSEN, H. L. Crop yields 1947. (In Danish.) Tidsskr. for Landøkonomi 1948: 413-431. Sept. 1948. 11 T43

Denmark.

5404 KANSAS. STATE BOARD OF AGRICULTURE. Report; Kansas crop and livestock statistics, annual summary, 1947. Topeka, 1948. 46 p. 2 K13Re

5405 PANAMA. MINISTERIO DE AGRICULTURA, COMERCIO E INDUSTRIA. Censo agro-pecuario de la Provincia de Los Santos, diciembre, 1945. Panama, 1948. 196 p. 254 P1952C

5406 PYRCH, A. J. Specialty crops in the irrigated areas of Alberta. Econ. Annal. 18: 65-68. Aug. 1948. 281.8 Ec72

Statistics of production and marketing.

5407 A REPORT on the crop-cutting experiments on Jowar and Bajri conducted in Bombay Province during 1945-46. Bombay. Bur. Econ. & Statis. B. 1(1): 8-18. July 1947. 269.54 Ec7

Yield statistics.

5408 SILVA, H. S. Observations on statistics of agricultural and industrial production in Brazil. (In Portuguese.) Rev. Rur. Bras. 28(333): 28-32. June 1948. 9.2 B733

5409 SURRATT, A. J. Statistics prove valuable. Ill. Dept. Agr. Ann. Rpt. 30: 93-113. 1947. 2 IL6R

5410 SWEDEN. STATISTISKA CENTRALBYRÅN. Agriculture et élevage du bétail en 1947. (In Swedish.) Stockholm, 1948. 113 p. 257.3 St2J

Table of contents and summary also in French.

5411 WALLACE, W. D. Crop production in United States may establish record this year. Foreign Trade 4: 673-674. Oct. 2, 1948. 286.8 C162

5412 ZETTERBERG, O. Preliminary results of this summer's acreage inventory and 1948 crop estimates. (In Swedish.) Sweden. Kommerskol. Jordbruksekonom. Uppgifter 10: 215-221. Aug. 1948. 257.3 J76

## BEVERAGES AND CONDIMENTS

5413 ALARCON, P. J. Una revolución en el despulpado del café. Café de Nicaragua 4(45): 24-26. Aug. 1948. 68.28 C114

5414 AMERINE, M. A. New wines and old bottles. Wine Rev. 16(9): 10-11. Sept. 1948. 390.8 W722

Problems of the wine industry.

5415 ANSON, M. L. The relation of glutamate to the browning reaction. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 61-66. Chicago, 1948. 152.71 F61

Discussion, p. 66-70.

5416 BACCIGALUPPI, H. On the upgrade. Wines & Vines 29(11 i. e. 10): 44-45. Oct. 1948. 95.8 C122

5417 BACCIGALUPPI, H. 179 years of wine; California's first agricultural industry. Wine Rev. 16(10): 8-9. Oct. 1948. 390.8 W722

5418 BARTHOLOMEW, M. Industry stabilization. Wines & Vines 29(11 i. e. 10): 13-14. Oct. 1948. 95.8 C122



- 5419 BERTUZZI, A. Il vino nella nostra vita [Wine in our life]. Ed. 8, rev. and enl. by G. Dalmasso. Milano, Bertuzzi, 1947. 199 p. (I Prodotti delle Industrie Agrarie. v. 1) 390.1 B462V
- 5420 BLANKEN, W. C. Observations on Java and Sumatra tea. (In Dutch.) Econ. Weekblad v. Indonesie 14: 603-605. Aug. 7, 1948. 280.8 Ec76
- 5421 BOMPARD, A. La vinification en 1948 dans la Région d'Arles. Bouches du Rhone Agr. 21(984): 11. Aug. 15, 1948. 14 B662
- 5422 BOWMAN, G. Cacao comes home; the Inter-American Cacao Center and its work. Pan Amer. Union. B. 32: 566-570. Oct. 1948. 150.9 M76
- 5423 BROWN, B. M. Research and the brewer. Inst. Brewing J. 54: 249-257. Sept./Oct. 1948. 390.9 In7
- 5424 BUNKER, H. J. The hygiene of beer production and consumption. Chem. & Indus. 39: 618-619. (Sum.) Sept. 25, 1948. 382 M31C
- 5425 BURNS, J. A. Brewing of top fermentation beers. I. English top fermentation systems. Brewers Digest 23(9): 41-44, 53. Sept. 1948. 390.8 B75
- 5426 CABANAS TRASERRA, J. Determinación de la acidez volátil en los vinos sulfatados. II. Ceres [Valladolid] 13(146): 31. Aug. 1, 1948. 15 C33
- 5427 CADDOW, H. A. California's vineyard gold. California 38(9): 13, 25-26. Sept. 1948. 280.8 C12
- 5428 CAIRNCROSS, S. E. The effect of monosodium glutamate on food flavor. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 32-36. Chicago, 1948. 152.71 F61  
Discussion, p. 36-38.
- 5429 CASTOR, J. G. B. Microorganisms found in bottled California wines. Wines & Vines 29(11 i. e. 10): 30-32. Oct. 1948. 95.8 C122
- 5430 CIFERRI, R. Informe sobre el viaje de estudios efectuados en Colombia. Palmira. Estac. Agr. Expt. B. de Inform. Agropecuaria 1592, 4 p.; 1593, 3 p.; 1594, 6 p.; 1595, 3 p.; 1596, 3 p. June 1, 8, 30, July 6, 13, 1948. 102.5 P18B  
The cacao industry.
- 5431 CROCKER, E. C. Meat flavor and observations on the taste of glutamate and other amino acids. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 25-30. Chicago, 1948. 152.71 F61  
Discussion, p. 30-31.
- 5432 CRUESS, W. V. Fermentation of wines at lower temperatures. Wines & Vines 29(9): 19-21. Sept. 1948. 95.8 C122
- 5433 DESHUSSES, J. Modification de la méthode de Zäch pour le dosage des huiles essentielles dans les épices. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hygiene 39(1/3): 90-92. 1948. 389.9 Sw6
- 5434 DOVE, W. F. The first symposium on monosodium glutamate. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 1-3. Chicago, 1948. 152.71 F61
- 5435 ENGELHARD, J. L'application des méthodes californiennes par la Distillerie Coopérative Viticole de Djebel-Djelloud (Tunisie). Mach. Agr. et Equip. Rural 79: 4-7. July 1948. 58.8 M182
- 5436 FELLERS, C. A. The use of monosodium glutamate in sea foods products. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 44-48. Chicago, 1948. 152.71 F61
- 5437 FESSLER, J. H. Filtration of wines. Wine Rev. 16(9): 8, 30; (10): 16-17. Sept.-Oct., 1948. 390.8 W722
- 5438 FISHER, R. K. Want to be a wine expert? California 38(9): 14, 31. Sept. 1948. 280.8 C12
- 5439 GALLIZIO, F. O. Top quality vermouth made in U.S.A. Glass Packer 27(10): 754-756. Oct. 1948. 309.8 G463
- 5440 GALVIN, S. L. The taste of monosodium glutamate and other amino acid salts in dilute solutions. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 39-43. Chicago, 1948. 152.71 F61  
Discussion, p. 43-44.
- 5441 GOMEZ, P. J. La chicha. Palmira. Estac. Agr. Expt. B. de Inform. Agropecuaria 1580: 1-2. Mar. 1, 1948. 102.5 P18B
- 5442 GRIMALDI, L. Defects in wine. (In Italian.) Ital. Vinic. ed Agr. 38: 164-165. July 31, 1948. 95.8 It1
- 5443 HALL, L. A. Protein hydrolysates as a source of glutamate flavors. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 53-61. Chicago, 1948. 152.71 F61
- 5444 HENIUS, H. R. Beer through the ages. Food Indus. 20: 1466-1468, 1556-1559. Oct. 1948. 389.8 F737
- 5445 HOPKINS, R. H., WIENER, S., and RAINBOW, C. Pantothenic acid in brewing. Inst. Brewing J. 54: 264-269. Sept./Oct. 1948. 390.9 In7
- 5446 HUBERT, G. A. Better coffee from Haiti. Foreign Agr. 12: 225-228. Oct. 1948. 1.9 Ec7For
- 5447 JAQUEMIN, L. Sugerencias sobre investigaciones enológicas. Vinos, Viñas y Frutas 44(514): 29-32. July 1948. 9 Ag89
- 5448 LARUE, P. Dans le bassin du Mississipi; le vin, sous-produit. Prog. Agr. et Vitic. 1948: 140-142. Sept. 5/12, 1948. 14 P94
- 5449 LAWRENCE, C. S. Introductory remarks. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 3. Chicago, 1948. 152.71 F61
- 5450 LIBUTTI, D. Measures to assure the preservation of wine. III. (In Italian.) Ital. Vinic. ed Agr. 38: 159-162. July 31, 1948. 95.8 It1
- 5451 LOUTH, J. D. Re-examine your marketing program. Wines & Vines 29(11 i. e. 10): 21-22. Oct. 1948. 95.8 C122
- 5452 LUCIANI, L. Considerations on selected ferments. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 134-135. July 31, 1948. 16 C72
- 5453 MCKEE, I. Vallejo, pioneer Sonoma wine grower. California 38(9): 16-17, 28-29. Ref. Sept. 1948. 280.8 C12  
Mariano Guadalupe Vallejo.
- 5454 MACKINNEY, G. Darkening during storage. Wines & Vines 29(11 i. e. 10): 37-38. Oct. 1948. 95.8 C122
- 5455 MALTERRE, L. La fermentation et sa surveillance. Paysan Franç. 24(369): 5. Sept. 1948. 14 P29  
Wine-making.
- 5456 MAMELI, L. Wines that change color. (In Italian.) Agr. Sarda 25: 87, 89, 91. Mar. 1948. 16 Ag825  
Also in Ital. Vinic. ed Agr. 38: 173-174. Aug. 15, 1948. 95.8 It1
- 5457 MANCEL, R. Le froid et la fabrication du chocolat en tablettes. Rev. Prat. du Froid 3(10): 32-33. Sept. 1948. 295.8 R323
- 5458 MANNING, P. D. V., and BUCHANAN, B. F. Quality production of glutamate. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 15-24. Chicago, 1948. 152.71 F61  
Discussion, p. 24-25.
- 5459 MARANI, R. Cement vats for wine in hot countries. (In Italian.) Ital. Vinic. ed Agr. 38: 162-163. July 31, 1948. 95.8 It1
- 5460 MARANI, R. Metals which cause cloudiness and alterations in wine. (In Italian.) Ital. Vinic. ed Agr. 38: 75-76. Apr. 15, 1948. 95.8 It1
- 5461 MARESCALCHI, A. Enological terminology. (In Italian.) Ital. Vinic. ed Agr. 38: 113-115. May 31, 1948. 95.8 It1
- 5462 MARGOLIS, J. A. Grapes need a holiday! For stability of California grape and wine industry. Wine Rev. 16(9): 6-7, 29. Sept. 1948. 390.8 W722
- 5463 MARSHALL, A. E. History of glutamate manufacture. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 4-14. Chicago, 1948. 152.71 F61
- 5464 MARTIN, F. Le prix normal du vin. Unité Paysanne 3(148): 3. Sept. 4, 1948. 14 Un3  
France.
- 5465 MÉNDEZ, M. I. Tres tipos de cafetales en San Marcos de Artemisa. Rev. Bimestre Cubana 59 (1/3): 217-224. Jan./June 1947. 110 R32



5466 MESTRE ARTIGAS, C. Un museo del vino. Agricultura [Madrid] 17: 345-348. Aug. 1948. 15 Ag84

5467 MOLINA URRUTIA, G. Destilerías vínicas. Vinos, Viñas y Frutas 44(514): 19, 21, 23. July 1948. 9 Ag89

5468 NAIR, J. H. Evaluation of glutamate in food specialties. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 48-53. Chicago, 1948. 152.71 F61

5469 OAKLEY, M. Preservatives and artificial sweeteners. Assoc. Off. Agr. Chem. J. 31: 473-476. Aug. 15, 1948. 381 As7

5470 PALIERI, G. Typical and prized wines of Italy. III. (In Italian.) Alimenti 4: 143-146. July/Aug. 1948. 389.8 AL44

5471 PEPION, J. Hidden coffee shrinkage. Spice Mill 71(10): 12-13, 26-27. Oct. 1948. 398.8 Sp4

5472 PFEIFFER, C. C. Pharmacology of glutamic acid. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 73-78. Chicago, 1948. 152.71 F61

5473 PLESSIS, A. M. DU. Wine industry in Little Karoo. (In Afrikaans.) Landbouweekblad 30(1517): 35. Aug. 4, 1948. 24 L232

5474 PREECE, I. A. Two problems in brewing science. Chem. & Indus. 39: 611-615. Ref. Sept. 25, 1948. 382 M31C

5475 RECASENS, L. DE. El vino de Oporto. Cult Mod. 31: 245. July 1948. 15 C89

5476 RENTSCHLER, H. Die biochemische bestimmung der äpfelsäure. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hygiene 39(1/3): 30-36. 1948. 389.9 Sw6

In wine.

5477 RENTSCHLER, H. Hinweise zur verbesserung unserer obstweine. Schweiz. Z. f. Obst- u. Weinbau 57: 313-315. Sept. 11, 1948. 80 Sch9

5478 RENTSCHLER, H. Schützt ein zitronensäurezusatz unsere schweizer weine vor dem säurezusammenbruch? Schweiz. Z. f. Obst- u. Weinbau 57: 285-286. Aug. 14, 1948. 80 Sch9

5479 RIVEROS, J. E. La Provincia de San Juan puede y debe producir vinos finos. Vinos, Viñas y Frutas 44(514): 25-27. July 1948. 9 Ag89

5480 ROGA VITZ, H. Report on phenolphthalein in chocolate preparations. Assoc. Off. Agr. Chem. J. 31: 547-548. Aug. 15, 1948. 381 As7

5481 SANDERS, R. The significance of thresholds of taste acuity in seasoning with glutamate. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 70-72. Chicago, 1948. 152.71 F61

5482 SCHANDERL, H. Oxidation-reduction potentials of wine. Wines & Vines 29(11 i. e. 10): 27-28. Oct. 1948. 95.8 C122

5483 SCHELLENBERG, H. Das brennen von vergorenen obstsäften. Schweiz. Z. f. Obst- u. Weinbau 57: 315-317. Sept. 11, 1948. 80 Sch9

5484 SCHOONMAKER, F. New names—old bottles. Gourmet 8(11): 14-15, 36-49. Nov. 1948. 389.8 G74

Wine types.

5485 SHIMWELL, J. L. A study of ropiness in beer. II. Inst. Brewing J. 54: 237-244. Sept./Oct. 1948. 390.9 In7

5486 TARANTOLA, C. The effect of bacteria on alcoholic fermentation. (In Italian.) Com. Vinic. 20 (31/32): 1-2. Ref. Aug. 18, 1948. 390.8 C732

In wine fermentation.

5487 VALES, E. El cultivo intensivo del café debe hacerse con moderación. Rev. del Café 4(3): 33. Aug. 1948. 8 R3295

5488 WALLERSTEIN, J. S., HALE, M. G., and ALBA R. T. Oxidizing enzymes in brewing materials. IV. Wallerstein Labs. Commun. 11: 221-227. Sept. 1948. 390.9 W18

Summary in French and Spanish.

5489 WASHBURN, D. Bibliography of monosodium glutamate and related literature. In U. S. Quartermaster Corps. Quartermaster Food and Container Inst. for the Armed Forces. Flavor and acceptability of monosodium glutamate, p. 79-83. Chicago, 1948. 152.71 F61

5490 WILLIAMS, K. California vintage tours. California 38(9): 15, 26-27. Sept. 1948. 280.8 C12

5491 WU, C. N. Report on China's tea industry in 1946 and 1947. China. Min. Agr. and Forestry. Misc. P. 1: 84-86. Apr. 1948. 22.5 C4412M

## DAIRY PRODUCTS

5492 ADLEM, E. L. Dairying at school. Milk Indus. 29(3): 41-44. Sept. 1948. 44.8 M593

5493 ALGEMEENE NEDERLANDSCHE ZUIVELBOND. Report of the General Netherlands Dairy Association. (In Dutch.) 1947. 99 p. 44.9 AL3V

5494 ARNOULD, C. Le fromage bulgare. Monit. Agr. 1(31): 4. Aug. 15, 1948. 14 M744

Yoghurt.

5495 BAUM, E. L. Cutting operating costs through better management. Milk Dealer 37(12): 53, 75. Sept. 1948. 44.8 M595

5496 BEAU. Les fromages sur le plan international. Indus. Lait. 1948: 135-138. Aug. 1948. 44.8 In2

5497 BEAU. La situation laitière [France]. Lait 28: 329-332. May/June 1948. 44.8 L143

5498 BURNETT, C. Wisconsin's century of dairy progress. Natl. Butter & Cheese J. 39(10): 64, 66, 68, 70, 72. Oct. 1948. 286.85 B98Bu

5499 CAINE, G. B. Profits ahead in the Inter-mountain country. West. Dairy J. 4(12): 23, 31. Oct. 1, 1948. 44.8 W524

Dairy industry.

5500 CARLINER, L. A. Appraising ice cream produced in Europe. Confectionery-Ice Cream World 40(15): 14. Oct. 8, 1948. 389.8 C767

5501 CHEERS, H. W. Next five years will be vital period for farming progress. Farmer & Settler Rev. 1(4): 32. Aug. 1948. 23 F2262

Dairy industry of Australia.

5502 CLEMENTS, R. C. Why we need more milk in the deep South. Amer. Milk Rev. 10(10): 21, 90. Oct. 1948. 44.8 Am38

5503 DELL, A. El dilema de los productores de leche. Diario Rural 7(790): 8. July 14, 1948. 9.9 D54

Great Britain.

5504 EAGAN, H. E. Plant employee education. (Abs.) Milk Dealer 37(12): 142, 144. Sept. 1948. 44.8 M595

5505 EVERETT, R. No iron curtain blacks out the spirit of dairy progress. Natl. Butter & Cheese J. 39(10): 52. Oct. 1948. 286.85 B98Bu

5506 FERGUSON, E. J. Efficiency in plant operation. Canad. Dairy & Ice Cream J. 27(9): 74, 76. Sept. 1948. 44.8 C162

5507 FOSTER, H. A nation takes the milky way to health. Ontario Milk Prod. 24: 85, 93. Sept. 1948. 44.8 On8

Milk consumption, production and distribution in Great Britain.

5508 FOUST, W. L. Let's sell more fat free milk. Milk Dealer 38(1): 44, 80. Oct. 1948. 44.8 M595

5509 GAUMNITZ, E. W. Future possibilities for the cheese industry. Canad. Dairy & Ice Cream J. 27(9): 54, 56, 58. Sept. 1948. 44.8 C162

5510 GUERIN, B. C. DE. Channel Islands milk. Milk Indus. 29(3): 35-37. Sept. 1948. 44.8 M593

5511 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. Dairy fact sheet. n. p., 1948. 2 p. 281.344 In8D

Accompanied by sheet entitled: How to use the Dairy fact sheet.

5512 IRVINE, D. M. Potentialities in efficiency in cheese factory operation. Canad. Dairy & Ice Cream J. 27(9): 78, 80, 82, 84. Sept. 1948. 44.8 C162

5513 JENSEN, H. M. Dairy industry in Denmark 1947. (In Danish.) Tidsskr. for Landøkonomi 1948: 365-385. Aug. 1948. 11 T43

5514 JESNESS, O. B. The dairy situation today and tomorrow. Creamery J. 59(10): 5, 32-34. Oct. 1948. 44.8 C86

5515 JEWELL, B. M., and MAHLE, G. C. Are you a dollar burner? Ark. Farmer 50(9): 4-5. Sept. 1948. 6 Ar42

Factors affecting profits in the dairy industry.



- 5516 KALOYEREAS, S. A. The milk industry in Greece. *Milk Dealer* 38(1): 216-219. Oct. 1948. 44.8 M595
- 5517 KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. Dairy program, and balanced farming. Manhattan, 1947. 6 p. 275.2 K133Da
- 5518 KARBAN, L. Urlaubseindrücke. *Osterr. Milch- u. Fettwirtschaft* 3: 150-151. July 1948. 44.8 Os72
- Dairy industry observations.
- 5519 KOCZERA, F. Wiens derzeitige versorgung mit milch. *Osterr. Milch- u. Fettwirtschaft* 3: 152-153. July 1948. 44.8 Os72
- 5520 KOLLER, E. F. What's your creamery's financial condition? *Creamery J.* 59(11): 5, 34. Nov. 1948. 44.8 C86
- 5521 LOWE, L. T. Milk and milk products. *Monmouthshire Inst. Agr. J.* 12: 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41-70. Summer 1948. 10 M75
- 5522 MARULANDA CAICEDO, L. Perspectivas de la industria lechera [Colombia]. *Rev. Agr. y Ganad.* 10(107): 26, 28. Aug./Sept. 1948. 9.4 R327
- 5523 MATA LLANA VENTURA, S. Leches fermentadas: yoghurt y kefir. *Ganadería [Madrid]* 6: 283-285. June 1948. 49 G15
- 5524 MESSER, P. J. The outlook for cheese. *Amer. Butter & Cheese Rev.* 10(11): 22, 24, 49. Oct. 1948. 44.8 Am37
- 5525 MIDDELHAUVE, L. Extensivierung der milch erzeugung. *Wirtsch. Ztg.* 3(34): 8. Aug. 20, 1948. 280.8 W742
- Germany.
- 5526 MINUT, J. La industria lechera en Argentina. *Asoc. Rur. del Uruguay. Rev. Mens.* 75(8): 76-78, 80-81, 83-85, 87-88. (Cont.) Aug. 1948. 9.9 As5
- 5527 NICOLAI, C. S. Ice cream: yankee doodle dessert. *Crown* 37(10): 9-11, 21-22. Oct. 1948. 389.8 C88
- 5528 NIELSEN, A. R. Critical period for ice cream. *Confectionery-Ice Cream World* 40(17): 40. Oct. 22, 1948. 389.8 C767
- 5529 REID, W. H. E. Need for standardization of methods in plant operation. *Ice Cream Rev.* 32(3): 172, 174-176. Oct. 1948. 389.8 Ic22
- 5530 RENAUX, J. La bataille du beurre est engagée; qui la gagnera? *Monit. Agr.* 1(33): 4. Aug. 29, 1948. 14 M744
- France.
- 5531 REYNOLDS, I. C. A milk supply for the Far East. *Austral. Milk & Dairy Prod. J.* 15(6/7): 30. June/July 1948. 44.8 Au72
- 5532 RIBEIRO, J. A. Dairy production in Bahia under the SALTE Plan. (In Portuguese.) *B. do Leite (ser. 4)* 2(13): 9-11. July 1948. 44.8 B633
- 5533 ROTHANS, W. Derzeitiger stand der linzer milchversorgung. *Osterr. Milch- u. Fettwirtschaft* 3: 158-160. July 1948. 44.8 Os72
- 5534 SEGARD, C. P. Fat free milk as a special dairy product. *Milk Dealer* 37(12): 55, 106, 108-110. Sept. 1948. 44.8 M595
- 5535 STOKES, J. Higher profits—shorter hours. *Ill. Agr.* 53: 5, 16. Oct. 1948. 6 IL6
- On the dairy farm.
- 5536 SVENSKA MEJERIERNAS RIKSFÖRENING. Styrelse- och revisionsberättelser, 1947 [Management and auditor's reports of the Swedish Farmer's Dairy Association]. Stockholm, 1948. 87 p. 281.3449 Sv2S
- 5537 SYME, P. S., and BARRER, P. R. Town milk supply. *New Zeal. Dept. Agr. B.* 268: 17-22. 1948. 23 N48Bu
- 5538 THOMÉ, K. E. Some characteristics of English dairy industry. (In Swedish.) *Svenska Mejeritidningen* 40: 309-312, 314-315. Aug. 14, 1948. 44.8 Sv2
- 5539 THOMPSON, E. M. Long range [dairy] quality program pays. *Food [Chicago]* 1948: 6-7. 1948. 44.8 M596
- 5540 TURTON, L. C. Review of trends, developments in the whole milk industry [New South Wales]. *Farmer & Settler Rev.* 1(4): 22. Aug. 1948. 23 F2262
- 5541 VAUVEL, J. Huit années d'économie laitière [France]. *Tech. Lait.* 4(42): 25. (To be cont.) Sept. 8, 1948. 44.8 Of2
- 5542 WELLE, A. A window towards west. Impressions from a study trip in U. S. A. (In Norwegian.) *Meieriposten* 37: 528-533, 547-552. Aug. 14-21, 1948. 44.8 M47
- Chiefly on the dairy industry in U. S. A.
- 5543 WHITE, E. L. Trends in the dairy and ice cream industry. *South. Dairy Prod. J.* 44(4): 118-121, 126-127. Oct. 1948. 44.8 So83
- 5544 WIESER, L. Aufbauarbeit in Niederösterreich. *Osterr. Milch- u. Fettwirtschaft* 3: 151-152. July 1948. 44.8 Os72
- 5545 YANZÓN R., N. A. Antecedentes y elementos para una política nacional de la leche. *Inst. Agr. Argentino. Comun.* 8(17), 53 p. 1948. 281.9 B862C

#### Analysis and Composition

- 5546 BAKALOR, S. Investigations on the composition of South African milk. *Farming So. Africa* 23: 415-422. June 1948. 24 So842
- 5547 BAKER, M. P. Coliform bacteria in pasteurized milk and milk products. *Amer. Milk Rev.* 10(10): 56, 58. Oct. 1948. 44.8 Am38
- 5548 BERG, W. V. D. Investigations on the determination of bacteria in raw mixed milk. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 686-689. Sept. 1/15, 1948. 41.8 T431
- 5549 BERNAERTS, M. J. Study on the Roeder method for the determination of fat in cheese. *Nederlands Melk- en Zuiveltijdschr.* 2: 99-107. Apr./June 1948. 44.8 N283
- Summary in Dutch.
- 5550 BORTREE, A. L., and SPENCER, R. D. A combination of the resazurin test and the direct microscopic count for the bacteriological examination of milk. *J. Milk & Food Technol.* 2(5): 255-258, 268. Ref. Sept./Oct. 1948. 44.8 J824
- 5551 BOYD, J. C., and HANSEN, H. C. Comparisons of the resazurin test with other tests for the quality of milk. *Milk Dealer* 38(1): 200, 202-204, 206, 208. Oct. 1948. 44.8 M595
- 5552 BRYANT, C. B. A. Surveying sediment controls. *J. Milk & Food Technol.* 2(5): 259-265. Sept./Oct. 1948. 44.8 J824
- 5553 CREPIN, P. Le lait de chèvre et sa composition chimique. *Mouton* 3: 43-44. Apr. 10, 1948. 45.8 M86
- 5554 FANAL, En lisant le barème de cotation des beurres pasteurisés. *Tech. Lait.* 4(42): 18. Sept. 8, 1948. 44.8 Of2
- 5555 FREAR, D. E. H. How to determine the presence of DDT in milk. *Milk Dealer* 37(12): 58, 60, 62. Sept. 1948. 44.8 M595
- 5556 GALESLOOT, T. E. The grading of raw milk by means of the resazurin test. (In Dutch.) *Nederlands Melk- en Zuiveltijdschr.* 2: 70-90. Ref. Apr./June 1948. 44.8 N283
- Summary in English.
- 5557 GOULD, I. A., and others. Laboratory quality analysis. *Ice Cream Field* 52(4): 80, 84-86, 90, 101. Oct. 1948. 389.8 Ic23
- P. B. Larsen, R. N. Doetsch, and F. E. Potter, joint authors.
- 5558 HADZI-ANTIC, A. Die milchsäurestreptokokken und degenerationserscheinungen im säurewecker. *Milchwissenschaft* 3: 260-263. Sept. 1948. 44.8 M5933
- Summary in English.
- 5559 HEIBERG, C. M. Control of milk sanitation in milk plants through bacteriological examination. (In Norwegian.) *Meieriposten* 37: 541-546, 567-573. Aug. 21-28, 1948. 44.8 M47
- 5560 HETRICK, J. H., and TRACY, P. H. Manometric measurement of the gas desorbed from vacuumized whole milk powder. *J. Dairy Sci.* 31: 831-838. Sept. 1948. 44.8 J822
- 5561 HEUS, J. G. DE, and MAAN, W. J. Bepaling van de melkgift, vetproductie en DDT-gehalte in de melk van koelen, gevoerd met stro van met DDT bespoten erwtenplanten [Determination of milk yield, butter fat production and DDT content in milk of cows fed on straw from pea plants sprayed with DDT]. *Hoogland, Instituut voor Moderne Veevoeding "De Schothorst,"* 1948. 7 p. 423 H48
- 5562 HUMPHRISS, E. A new lactometer jar. *Austral. Milk & Dairy Prod. J.* 15(6/7): 35. June/July 1948. 44.8 Au72



5563 JOSEPHSON, D. V. Evaluating the flavor of dairy products. *Pacific Dairy Rev.* 52(10): 40. Oct. 1948. 286.85 P11

5564 JOSSE, J. Isolement de bactériophages spécifiques pour des streptocoques lactiques. *Lait* 28: 268-270. May/June 1948. 44.8 L143

5565 KING, M. Taking the sediment test. *So. African Dairyman* 10: 340. Sept. 1948. 44.8 So822

5566 KING, N. A modification of the Voges-Proskauer test for rapid colorimetric determination of acetyl-methylcarbinol plus diacetyl in the butter cultures. *Dairy Indus.* 13: 860-861, 878. Sept. 1948. 44.8 D1427

5567 KOPACZEWSKI, W. Etude physico-chimique du lait. *Lait* 28: 237-256. (Cont.) May/June 1948. 44.8 L143

5568 KRUKOVSKY, V. N., and WHITING, F. Covitamin studies of the milk fats from four breeds of dairy cattle. (Abs.) *J. Dairy Sci.* 31: 866. Aug. 1948. 44.8 J822

5569 KRUKOVSKY, V. N. Factors affecting the stability of milk fat and fat soluble vitamins. *Canad. Dairy & Ice Cream J.* 27(10): 90. Oct. 1948. 44.8 C162

5570 LEVINE, B. S., and BLACK, L. A. Newly proposed staining formulas for the direct microscopic examination of milk. *Amer. J. Pub. Health* 38: 1210-1218. Ref. Sept. 1948. 449.9 Am3J

5571 MCAULIFFE, H. D. Sources of bacterial contamination in ice cream. (Abs.) *Ice Cream Rev.* 32(3): 70, 72. Oct. 1948. 389.8 Ic22

5572 MACDONALD, F. J. The freezing-point of bulk milk. *Analyst* 73: 423-429. Aug. 1948. 382 An1

5573 MACHEREL, P. Historique des méthodes acido-butyrométriques du dosage de la matière grasse des crèmes. *Lait* 28: 256-267. Ref. May/June 1948. 44.8 L143

5574 MOHR, W., and WELLM, J. Konsistenz der butter. I. Zur methode der konsistenzmessung. *Milch-wissenschaft* 3: 234-242. Ref. Aug. 1948. 44.8 M5933

Summary in English.

5575 MORTON, R. K., and VINCENT, J. M. Influence of time and temperature of storage on dye-reduction tests in milk. *Nature [London]* 162: 415-416. Sept. 11, 1948. 472 N21

5576 MULDER, H. Changes in the surface of butter. (In Dutch.) *Nederlands Melk- en Zuiveltijdschr.* 2: 91-98. Apr./June 1948. 44.8 N283

Summary in English.

5577 MURRAY, D. Mobile laboratory serves plants in southwest Michigan. *Natl. Butter & Cheese J.* 39(10): 62. Oct. 1948. 286.85 B98Bu

Also in *Milk Dealer* 38(1): 60. Oct. 1948. 44.8 M595

5578 PIEN, J. La méthode internationale d'analyse des fromages est-elle exacte? *Lait* 28: 225-236. May/June 1948. 44.8 L143

5579 RAMIREZ SANCHEZ, C. A. Importancia de la materia grasa. *Agrario* 13(400): 10, 12. Apr. 1948. 9.3 Ag85

In milk.

5580 RANGAPPA, K. S. The refractive constant of whole and skim milk. *Cur. Sci.* 17: 213-214. July 1948. 475 Sci23

5581 SANDERS, G. P. Improvements in the phosphatase test and application to various dairy products. *Milk Messenger* 25(8): 3-4. (Cont.) (Abs.) Aug. 1948. 44.8 M5925

5582 SLAVIN, D. A simple method of identifying *Streptococcus agalactiae*. *J. Compar. Path. & Ther.* 58: 161-166. Ref. July 1948. 41.8 J82

Analysis of milk samples.

5583 SMITH, H. W. The typing of staphylococci of animal origin by the bacteriophage method. *J. Compar. Path. & Ther.* 58: 179-188. July 1948. 41.8 J82

Material derived from milk of cows with mastitis, and from pyemic lambs.

5584 STOLL, G. Der geruchs- und geschmacksorganismus in der praxis der sinnenprüfung. *Österr. Milch- u. Fettwirtschaft* 3: 148-150. (To be cont.) July 1948. 44.8 Os72

5585 TODOROFF, A., and ASSENOWA, K. Ein universal-agarnährboden für das molkereibakteriologische laboratorium. *Milchwissenschaft* 3: 263-266. Sept. 1948. 44.8 M5933

Summary in English.

5586 UNGELENK. Fettgehalt und fettgehaltsschwankungen. *Neue Mitt. f. die Landw.* 3: 167-168. June 5, 1948. 18 N39

In milk.

5587 VERGE, J. Lait de vache et bacille tuberculeux. *Paris. Acad. des Sci. Compt. Rend.* 227: 488-490. Aug. 23, 1948. 505 P21

5588 VLEESCHAUWER, A. DE, and HEYNDRIKX, C. V. M. Contribution to the study of nitrogen compounds in cheese. (In Flemish.) *Gent. Landbouwhogeschool. Meded.* 13: 25-77. Ref. Mar. 1948. 105.1 G344

French, English and German summaries.

5589 WATTS, P. S., and MCLEOD, D. H. The concentration of penicillin in the milk after intrammary infusion. *J. Compar. Path. & Ther.* 58: 232-243. Ref. July 1948. 41.8 J82

5590 WOLF. Ist der fettgehalt der milch konstant? *Allgäuer Bauernbl.* 16: 176. July 22, 1948. 18 AL53

#### Consumption and Utilization

5591 BISWAS, H. G. Manufacture of milk sugar from confectioners' waste. *J. Sci. & Indus. Res.* 7B: 130. Aug. 1948. 475 J82

Whey.

5592 CASTANIE, H. La lait et le soja, véritables mines d'or. *Fruits et Primeurs de l'Afrique du Nord*, Ed. Maroc. 18: 272-273. Sept. 1948. 80 F9482

5593 DEAN, W. A. Dairy waste, saving and disposal. *Austral. Milk & Dairy Prod. J.* 15(5): 31-33; (6/7): 39-42. May-June/July, 1948. 44.8 Au72

5594 LUCAS, P. S. Consumer preference tests for imitation and pure flavors in ice cream. *Mich. Agr. Expt. Sta. Q. B.* 31: 22-27. Aug. 1948. 100 M58S

5595 SOMMER, H. H. Considerations in the utilization of solids not fat in dairy industry. *Canad. Dairy & Ice Cream J.* 27(9): 43-45. Sept. 1948. 44.8 C162

5596 SPENCER, L. The future of milk consumption. *Amer. Milk Rev.* 10(10): 62-64, 66-67, 70. Oct. 1948. 44.8 Am38

5597 SPRAGUE, G. W. Whey—a valuable milk by-product. *Austral. Milk & Dairy Prod. J.* 15(6/7): 25-26. June/July 1948. 44.8 Au72

5598 WENTWORTH, W. A. Consumer evaluation of milk products. *South. Dairy Prod. J.* 44(4): 140, 142, 144. Oct. 1948. 44.8 So83

5599 WIECKERS, S. G. Une méthode moderne pour améliorer le sérum. *Tech. Lait.* 4(42): 8-10. Sept. 8, 1948. 44.8 Of2

5600 WISNIEWSKI, T. F. The chemistry and biology of milk waste disposal. *J. Milk & Food Technol.* 2(5): 293-300. Sept./Oct. 1948. 44.8 J824

#### Distribution, Marketing, and Transportation

5601 ÅNÄS, W. Economy in receiving and delivering milk. (In Swedish.) *Svenska Mejeritidningen* 40: 319-321, 327-329. Aug. 21-28, 1948. 44.8 Sv2

5602 BAUM, E. L. Specialize with dairy specialties. *Milk Dealer* 38(1): 51, 90. Oct. 1948. 44.8 M595

5603 CALIFORNIA. DEPT. OF AGRICULTURE. BUR. OF MILK CONTROL. Stabilization and marketing plan as amended, for fluid milk, together with rules and regulations pertaining thereto. n. p., 1948. 284.3449 C12S  
Issued for the various marketing areas.

5604 COTTON, W. P. Dairy industry faces marketing problem. *Res. and Farming. [N. C. Sta.] Prog. Rpt.* 7(1): 4-5. July 1948. 100 N81R

5605 ESCHE, E. Das ende der zwangswirtschaft und die möglichkeiten der marktordnung. *Milchwissenschaft* 3: 249-252. Sept. 1948. 44.8 M5933

Germany.

Summary in English.

5606 EVAPORATED MILK ASSOCIATION, CHICAGO. A teacher's manual for class presentation of the 16mm. sound motion picture "Modern Milk, the Story of Evaporated Milk." New York, 1947? 4 p. 44 Ev123Mt

5607 FAIR, E. W. Delivery costs. *South. Dairy Prod. J.* 44(4): 186, 188-189. Oct. 1948. 44.8 So83

5608 HEINKEL, H. E. Where can I get goat milk? *Dairy Goat J.* 26(10): 7. Oct. 1948. 40.18 M592

5609 HIBBERT, C. W. Hold that line! Dairy Advisory Board seeks high milk consumption mark. *West. Dairy J.* 4(12): 54-55. Oct. 1, 1948. 44.8 W524

5610 KOEHLER, R. E. First lady of the milk industry. *Amer. Milk Rev.* 10(10): 48. Oct. 1948. 44.8 Am38

Elsie, the Borden cow.



5611 MINSTER, C. H. Marketing quality ice cream. *Ice Cream Field* 52(4): 56-58, 139-142. Oct. 1948. 389.8 Ic23

5612 NADAUD, F. L'agriculteur français et les coopératives laitières. *Monit. Agr.* 1(22): 4. June 13, 1948. 14 M744

5613 NISBET, J. C. Selling to get into high gear; agriculture is the only big business that has been able to survive without a first-hand tie-in to salesmanship. I. *New England Homestead* 121(17): 12-13. Sept. 11, 1948. 6 N442

With reference to the dairy industry.

5614 PUHR, M. Quality dairy products pay off for half century. *News Farmer Coops.* 15(7): 16, 23. Oct. 1948. 166.2 N47

Enumclaw Cooperative Creamery, Washington.

5615 SHANNON, R. E., and WELCH, W. F. Steady local advertising brings increased results. *Creamery J.* 59(11): 8, 32. Nov. 1948. 44.8 C86

5616 SITTON, J. E. Planning—key to milk sales efficiency. *Milk Dealer* 37(12): 120-122, 124. Sept. 1948. 44.8 M595

5617 WAKEFIELD, H. S. The relation of dairy products processing to sales. *Cherry-Burrell Circle* 1948: 9-10. Sept./Oct. 1948. 44.8 C42

5618 WEIGOLD, G. W. How can a milk company in the smaller community do a good public relations job? *Milk Dealer* 37(12): 146-148. Sept. 1948. 44.8 M595

5619 WELCH, W. F. Your advertising problems. *South. Dairy Prod. J.* 44(4): 184-185, 192. Oct. 1948. 44.8 So83

#### Grading, Inspection, Standardization, and Quality

5620 BABCOCK, C. J., and others. Frozen homogenized milk. IV-V. *J. Dairy Sci.* 31: 805-815. Ref. Sept. 1948. 44.8 J822

J. N. Stabile, E. Windham, L. B. Evans, and R. Randall, joint authors.

IV. Keeping quality of frozen homogenized milk after thawing; V. Effect of age before freezing on the keeping quality of frozen homogenized milk.

5621 BREIREM, K. Vitamin C and oxidized flavor in milk. A review of American research work. (In Norwegian.) *Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Fôringslære. Særtrykk* 52, 8 p. Oslo, 1947. 389.79 N76

5622 CAMINOPETROS, J. P. La "Q" Fever en Grèce. Le lait source de l'infection pour l'homme et les animaux. *Ann. de Parasitol. Humaine et Compar.* 23: 107-118. 1948. 436.8 An7

5623 CARLINER, L. A. Appraising ice cream produced in Europe. *Confectionery-Ice Cream World* 40(17): 54-55. Oct. 22, 1948. 389.8 C767

5624 CASTLE, M. E., and GLÜCKSMANN, E. J. Adulteration of milk. *Dairy Indus.* 13: 866-868. Sept. 1948. 44.8 D1427

5625 DAHLBERG, A. C. The standardization of milk. *Dairy World* 27(5): 55-56. Oct. 1948. 44.8 D1423

5626 FAIRBANKS, D. W. Advantages of extra grade nonfat dry milk solids. *Ice Cream Field* 52(4): 55. Oct. 1948. 389.8 Ic23

5627 FOUASSIER, M. Les laits anormaux devant l'expertise. *Crémierie Franç.* 87: 5. Sept. 15/20, 1948. 44.8 C867

5628 GENIN, G. Les qualités que doit posséder la caséine destinée à des usages industriels. *Lait* 28: 312-322. May/June 1948. 44.8 L143

5629 GREINER, F. J. Have you a quality plan? *Amer. Butter & Cheese Rev.* 10(10): 12, 14, 16. Sept. 1948. 44.8 Am37

Butter.

5630 HIRSCH, A. Dairy bacteriology. III. The public health aspect of milk. *Dairy Indus.* 13: 868-869. Sept. 1948. 44.8 D1427

5631 KÄSTLI, P. Zur frage der übertragung von krankheitskeimen auf den menschen durch den konsum von milch und milchprodukten. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hygiene 39(1/3): 46-64. Ref. 1948. 389.9 Sw6

5632 KOSIKOWSKY, F. V. Evaluating ice cream. *Ice Cream Field* 52(4): 60, 143-145. Oct. 1948. 389.8 Ic23

5633 MORK, I. Cheese quality and milk quality. (In Norwegian.) *Meieriposten* 37: 561-566. Aug. 28, 1948. 44.8 M47

Norway.

5634 NETTO, F. A. The organization of the milk control services in the State of São Paulo. (In Portuguese.) *Rev. dos Criadores* 19(4): 58-60. Apr. 1948. 43.8 R32

5635 O'BRIEN, S. Quality milk & contented customers. *Dairy World* 27(4): 9-11. Sept. 1948. 44.8 D1423

5636 PETERSON, E. L. The dairy manufacturer and the regulatory agency. *Oreg. Dept. Agr. B.* 159: 2, 43-44. Sept. 1948. 2 Or3

5637 PLANTAVID, Le S. P. E. L. [Service Provisoire de l'Économie Laitière] en province. *SPEL; B. Int. d'Inform. et de Doc.* 2(12): 9. Dec. 1947. 44.8 Sp1

French cheese labelling.

5638 RIBEIRO, J. DE A. Standardization of consumer milk. (In Portuguese.) *Rev. dos Criadores* 19(4): 38-40. Apr. 1948. 43.8 R32

5639 RUDNICK, A. W. How a quality problem is being solved. *Amer. Butter & Cheese Rev.* 10(10): 2, 20-21, 36. Sept. 1948. 44.8 Am37

Dairy products.

5640 SCHMALFUSS, H. Verfahren zur bestimmung des verdorbenheitsgrades von fetten. *Milchwissenschaft* 3: 225-233. Ref. Aug. 1948. 44.8 M5933

Summaries in English, French, and Russian.

5641 SEN, K. C., and LAXMINARAYANA, H. Some public health aspects of milk industry in India. I. Factors affecting the wholesome value of milk. *Indian Farming* 9: 136-142. Apr. 1948. 22 In283

5642 STORGÅRDS, T. Effect of some forage crops on taste of milk and butter. (In Swedish.) *Ladugården* 1947: 132. Nov. 1947. 44.8 L12

5643 STORGÅRDS, T. Origin of odor and flavor flaws in milk. (In Swedish.) *Ladugården* 1947: 91-92. Sept. 1947. 44.8 L12

5644 THOMAS, S. B., and others. Investigation of a case of ropiness in pasteurized milk. *Dairy Indus.* 13: 854-859. Sept. 1948. 44.8 D1427

D. G. Griffiths, E. Jones-Evans, and B. F. Thomas, joint authors.

5645 THORNTON, H. R., SHAW, R. K., and WOOD, F. W. Production methods and the keeping quality of churning cream. *Sci. Agr.* 28: 377-392. Sept. 1948. 7 Sci2

5646 TROUT, G. M., and others. An analysis of the results of the 1947 collegiate students' international contest in judging dairy products. *J. Dairy Sci.* 31: 823-829. Sept. 1948. 44.8 J822

E. O. Anderson, C. J. Babcock, P. A. Downs, and F. H. Herzer, joint authors.

5647 TROUT, G. M., and BRUNNER, J. R. Observations on rough or "spotty" homogenized milk. *Mich. Agr. Expt. Sta. Q. B.* 31: 35-40. Aug. 1948. 100 M58S

5648 WALLENFELDT, E., and BRUNS, E. G. Cow-yards—quality milk. *Hoard's Dairyman* 93: 685. Sept. 25, 1948. 44.8 H65

#### Packing and Packaging

5649 HAMEL, K. E. Bottles make modern dairying possible. *Dairy Goat J.* 26(10): 5-6. Oct. 1948. 40.18 M592

5650 HARGREAVES, G. Influence of can design on results in the can-washer. *Dairy Indus.* 13: 862-863, 878. Sept. 1948. 44.8 D1427

5651 MIKLOS, A. Ventajas de los tarros de aluminio para leche, comparados con los de hierro estañado o de cualquier otro material. *Indus. Lechera* 30: 550-552. Aug. 1948. 44.8 In26

5652 THOMSEN, L. C. Importance of butter packaging to retail sales. *Natl. Butter & Cheese J.* 39(10): 42-43, 80, 82. Oct. 1948. 286.85 B98Bu

5653 TRACY, P. H. A study of milk can washing. *Canad. Dairy & Ice Cream J.* 27(9): 86, 88, 94. Sept. 1948. 44.8 C162

5654 WHITE, A. H. Aluminum foil for packaging print butter. *Canad. Dairy & Ice Cream J.* 27(10): 27-31. Oct. 1948. 44.8 C162

#### Prices, Price Control, and Rationing

5655 BUSHNELL, H. H. Formulas--and what they'll do to your milk check. *West. Dairy J.* 4(12): 28, 45-46. Oct. 1, 1948. 44.8 W524

Price formulas.



5656 CALIFORNIA. DEPT. OF AGRICULTURE. BUR. OF MILK CONTROL. Minimum wholesale and minimum retail prices as amended, for fluid milk. n. p., 1948. 284.3449 C12M

Issued for the various marketing areas.

5657 GUNDLACH, G. P., and ESMOND, C. W. Getting the necessary price for milk. Milk Dealer 38 (1): 92, 96. Oct. 1948. 44.8 M595

5658 HASSELBERG, L. Pricing skim milk. (In Swedish.) Svenska Mejeritidningen 40: 351-353. Sept. 18, 1948. 44.8 Sv2

5659 KOLB. Die neuen milchpreise. Württemb. Wchnbl. f. Landw. 115: 198-199. July 31, 1948. 18 W96

5660 POLLARD, R. T. Price stability justifies optimism; drudgery at last vanishing from dairy farm work; sound financial footing achieved. Farmer & Settler Rev. 1(4): 3. Aug. 1948. 23 F2262

In New South Wales.

5661 SCHAPHORST, W. F. Relationship between cost, selling price, mark-up and margin. Milk Dealer 38(1): 184, 186. Oct. 1948. 44.8 M595

5662 WIDMANN, H. Kampf um den gerechten milchpreis! Landw. Wchnbl. 138: 155. July 17, 1948. 18 L2338

Germany.

#### Processing and Storage

5663 BAIN, J. M. Proper operation of the cheese factory. Amer. Butter & Cheese Rev. 10(10): 9-10. Sept. 1948. 44.8 Am37

5664 BARNICOAT, C. R. Experiments on the packing and storage of butter. VI. The effect on keeping quality of butter of exposure to light during manufacture. New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 29: 185-205. Ref. Dec. 1947. 514 N48A

5665 BARRETT, M. A. Note on a method of preserving separated milk as cheese. East African Agr. J. 14: 51-52. July 1948. 24 Ea74

5666 BEALL, A. Quality ingredients for ice cream. Confectionery-Ice Cream World 40(17): 46. Oct. 22, 1948. 389.8 C767

5667 BOUCHER, B. A. Planning, construction and maintenance of modern dairy plants. Canad. Dairy & Ice Cream J. 27(10): 37-38. Oct. 1948. 44.8 C162

5668 CARIZZA, R. A. Suero-fermento: importancia de su preparación y conservación en la obtención de buenos quesos. Res 16: 22613-22614. Aug. 20, 1948. 286.85 R31

5669 CASTLE, M. E., and GLUCKSMANN, E. J. Sterilization. Dairy Indus. 13: 864-866. Sept. 1948. 44.8 D1427

Dairy equipment.

5670 DAHLBERG, A. C. Ingredient improvement just ahead. Ice Cream Field 52(3): 29-31. Sept. 1948. 389.8 Ic23

5671 DAHLE, C. D., COLLINS, W. F., and MEISER, J. A., JR. Storing milk solids for ice cream. Ice Cream Field 52(4): 53, 118-120, 122-123. Oct. 1948. 389.8 Ic23

5672 DAHLE, C. D., and NAGEOTTE, G. J. A study of cream cheese manufacturing methods. Natl. Butter & Cheese J. 39(10): 44-45. (Cont.) Oct. 1948. 286.85 B98Bu

5673 DAVIS, J. G. Dairy plant, including ice cream plant. (Sum.) Chem. & Indus. 39: 618. Sept. 25, 1948. 382 M31C

5674 DEHYDRATED animal products. 3. Milk products. Food Canada 8(10): 14-17. Oct. 1948. 389.8 F7323

5675 ERB, J. H. Good housekeeping in the dairy plant. Milk Dealer 38(1): 86, 88. Oct. 1948. 44.8 M595

5676 FERGUSON, E. J. Pasteurizing and cooling cream and controlling butter defects. Canad. Dairy & Ice Cream J. 27(9): 90, 92, 94, 96. Sept. 1948. 44.8 C162

5677 FEW, F. G. Milk cooling on the farm. Queensland Agr. J. 66: 368-369. June 1948. 23 Q33

5678 GEAR, A. F. Ice cream processing plant. V. Ice Cream Indus. 23(6): 59, 61. Sept. 1948. 389.8 Ic24

5679 HANSEN, R. Destruction of the milk phosphatase by heating. (In Danish.) Nord. Mejeri-Tidsskr. 14: 93-98. 1948. 44.8 N752

5680 HASKELL, W. H. Southern plant operators should consider the need for better sanitation in dairy processing plants. South. Dairy Prod. J. 44(4): 164-165, 168-169, 172. Oct. 1948. 44.8 So83

5681 HUCKER, G. J., and VAN ESELTINE, W. A review of the biological aspects of the quaternary ammonium compounds. J. Milk & Food Technol. 2(5): 269-292, 300. Ref. Sept./Oct. 1948. 44.8 J824

5682 JONES-EVANS, E., and others. Pasteurizing plants and the quality of heat treated milk. Dairy Indus. 13: 874-878. Sept. 1948. 44.8 D1427

D. G. Griffiths, K. J. Morgan, and T. J. Lewis, joint authors.

5683 JORDAN, W., and HOLLAND, R. F. Measurement of holding time of HTST pasteurizers. Canad. Dairy & Ice Cream J. 27(10): 76. Oct. 1948. 44.8 C162

5684 JOSEPHSON, D. V. Ice cream overrun. (Abs.) Dairy World 27(4): 51-52. Sept. 1948. 44.8 D1423

5685 JOSEPHSON, D. V. Present status of chemical sterilizers. Milk Dealer 37(12): 102, 104. Sept. 1948. 44.8 M595

5686 JULIEN, J. P. La pasteurisation du mélange de crème glacée. Québec Laït. 7(9): 11-13. Sept. 1948. 44.8 Q3

5687 KAY, H. D. The National Institute for Research in Dairying. Farming [Norwich] 2: 273-276, 281. Sept. 1948. 10 F2236

In England.

5688 KOERVER, C. Flavouring materials used in ice cream. Canad. Dairy & Ice cream J. 27(10): 78, 80, 82, 84, 86, 88. Oct. 1948. 44.8 C162

Also in Ice Cream Field 52(4): 48, 125-128. Oct. 1948. 389.8 Ic23

5689 KOSIKOWSKY, K. V., and DAHLBERG, A. C. Flavour development in Cheddar cheese made from pasteurized milk. Canad. Dairy & Ice Cream J. 27(10): 70, 74. Oct. 1948. 44.8 C162

5690 KRUKOVSKY, V. N. Stability of milk fat in storage. Natl. Butter & Cheese J. 39(10): 58. Oct. 1948. 286.85 B98Bu

5691 KUMETAT, K. Untersuchungsmethoden für milone. Milchwissenschaft 3: 193-196. July 1948. 44.8 M5933

Summaries in German, English, and French.

A whey product.

5692 KUSWA, W. Why hard water requires specialized treatment. Amer. Butter & Cheese Rev. 10(11): 10-12. Oct. 1948. 44.8 Am37

In dairy plants.

5693 LAURIDSEN, C. Elaboración de manteca en la granja. Soc. Rur. de Rosario. Rev. 27(317/318): 101-104. July/Aug. 1948. 9 So14

Also in Bolsa de Com., Rosario. Rev. 36(879): 3-6. Aug. 31, 1948. 287 R71

5694 LIEDELL, H. J. Delaware County's [New York] model [cooperative dairy] plant. Food [Chicago] 1948: 8-9. 1948. 44.8 M596

5695 LINDER, H. Preservation of flavors in fruits. Confectionery-Ice Cream World 40(18): 12, 17. Oct. 29, 1948. 389.8 C767

In ice cream.

5696 LINTON, H. L. Preservation of milk curd. Pig Prog. 13(6): 5-6. July 1948. 46.8 P622

5697 LUNDSTEDT, E. Tips for improving acid-type fresh cheese. Food Indus. 20: 1472-1474, 1568. Oct. 1948. 389.8 F737

Cottage cheese.

5698 MACFARLANE, I. Processed milk products. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 1(3): 3-7. July 1948. 281.9 Au73

5699 MANDT, P. H. When good cheese factories get together. Natl. Butter & Cheese J. 39(10): 38-40, 74, 76, 78. Oct. 1948. 286.85 B98Bu

Layout and equipment.

5700 MARESCALCHI, A. Gorgonzola. (In Italian.) Ital. Vinic. ed Agr. 38: 77-78. Apr. 15, 1948. 95.8 It1

5701 MARTIN, W. H. Superheating ice cream mixes. Ice Cream Field 52(4): 65-66. Oct. 1948. 389.8 Ic23

5702 MATALLANA, S. Quesos fundidos.

Ganadería [Madrid] 6: 230-232. May 1948. 49 G15

5703 MATALLANA, S. Tratamiento de la leche en el hogar. Spain. Min. de Agr. Secc. de Pub., Prensa y Propag. Hojas Divulg. 10-48 H, 11 p. May 1948. 15 H68



- 5704 MILLER, D. D. The control of mould; a study of the influence of carbon dioxide and oxygen in the growth of moulds, with special reference to cheese. *Canad. Dairy & Ice Cream J.* 27(9): 60, 62, 64. Ref. Sept. 1948. 44.8 C162
- 5705 MORTON, R. K. Dairy research and Australian progress. *Austral. Inst. Agr. Sci. J.* 14: 53-60. Ref. June 1948. 23 Au74
- 5706 NATIONAL DAIRYMEN'S ASSOCIATION. Model dairy layout; competition results with plans. London, 1948. 22 p. 296 N219
- 5707 NIELSEN, S. Salting and working the butter. (In Danish.) *Nord. Mejeri-Tidsskr.* 14: 25-29. 1948. 44.8 N752
- 5708 O'DONOGHUE, T. P. British dairy equipment. *So. African Dairyman* 10: 299-328. Sept. 1948. 44.8 So822
- 5709 PALMER, R. R. Quick cooling [of milk] controls quality. *Food [Chicago]* 1948: 5, 20-22. 1948. 44.8 M596
- 5710 PARFITT, E. H. Quality control in the evaporated milk industry. *J. Milk & Food Technol.* 2(5): 266-268. Sept./Oct. 1948. 44.8 J824
- 5711 PARISI, O. Il formaggio grana [Parmesan cheese]. Modena, Società Tip. Modenese, 1947. 236 p. 44 P212
- 5712 PROUTY, C. C. The problem of bacteriophage in relation to cheese starters. *Canad. Dairy & Ice Cream J.* 27(9): 46-48. Sept. 1948. 44.8 C162
- 5713 REES, H. V. Water supply for butter factories. *Milk Messenger* 25(8): 5-6. (Abs.) Aug. 1948. 44.8 M5925
- 5714 REID, W. H. E. The need for standardization of operating methods in dairy processing plants. *South. Dairy Prod. J.* 44(4): 45, 84-85, 87-88. Oct. 1948. 44.8 So83
- 5715 RHODES, E. L. Extra refrigeration needed. *Ice Cream Field* 52(3): 54. Sept. 1948. 389.8 Ic23
- 5716 ROCASOLANO, C. La acidez de la leche y la longevidad. *Cult. Mod.* 31: 290. Aug. 1948. 15 C89
- Types of fermented milk.
- 5717 ROCHE, H. A. Some of the new butter-making processes. *Austral. Milk & Dairy Prod. J.* 15(6/7): 21-23. June/July 1948. 44.8 Au72
- 5718 SANDELIN, A. E. The influence of homogenizing on the stability of cream. (In Danish.) *Nord. Mejeri-Tidsskr.* 14: 34-36. 1948. 44.8 N752
- 5719 SANDERSON, L. Developments in stainless steels and alloys. *Dairy Indus.* 13: 870-873. Sept. 1948. 44.8 D1427
- Dairy equipment.
- 5720 SATTTLER, L. W. Neue forschungen auf dem gebiet des labfermentes. *Österr. Milch- u. Fettwirtschaft* 3: 155-158. July 1948. 44.8 Os72
- 5721 SCHULZ, M. E., and SCHULZ, W. Das "fur" und "wider" der verschiedenen butterungsverfahren. *Milchwissenschaft* 3: 213-224, 253-259. Aug.-Sept., 1948. 44.8 M5933
- 5722 SHEURING, J. Proper overrun in the manufacture of ice cream. *South. Dairy Prod. J.* 44(4): 38, 48. Oct. 1948. 44.8 So83
- 5723 SJÖSTRÖM, G. Principles for pasteurization control and their application in various countries. (In Swedish.) *Svenska Mejeritidningen* 40: 335-337, 343-346. Sept. 4-11, 1948. 44.8 Sv2
- 5724 SMITH, J. A. B. The Hannah Dairy Research Institute. *Farming [Norwich]* 2: 249-252. Aug. 1948. 10 F2236
- 5725 SPIERS, R. J. Plastic cream production and uses. *Dairy World* 27(5): 52-54. Oct. 1948. 44.8 D1423
- 5726 THOMASSON, H. L. Effective plant design. *Amer. Milk Rev.* 10(10): 68-69. Oct. 1948. 44.8 Am38
- 5727 TOLLENAAR, F. D., and SCHAAK, F. S. M. VAN. On the influence of carrots (*Daucus carota* L.) on the deterioration of butter preserved with salt. (In Dutch.) *Voeding* 9: 134-137. Aug. 15, 1948. 389.8 V85
- English summary.
- 5728 TRACY, P. H. Homogenized milk problems. *Canad. Dairy & Ice Cream M.* 27(9): 27-35, 96. Sept. 1948. 44.8 C162
- 5729 TRACY, P. H. Ice cream stabilizers. *Canad. Dairy & Ice Cream J.* 27(10): 34-36. Oct. 1948. 44.8 C162
- 5730 TRACY, P. H. Manufacturing mix for resale. *Ice Cream Field* 52(4): 47, 76. Oct. 1948. 389.8 Ic23
- 5731 VILLACORTA, P. A. Medios de control de la pureza de la leche. *Rev. Ganad. [San Salvador]* 7 (104/105): 4-5. July/Aug. 1948. 8 R3292
- 5732 VLEESCHAUWER, A. DE, HENDRICKX, H., and HEYNDRIKX, G. Onderzoekingsmethoden van zuivel-producten [Dairy product research methods]. Amsterdam, Ahrend, 1948. 259 p. 44 V84
- 5733 WECKEL, K. G. Laboratory control of finished dairy products. *Amer. Butter & Cheese Rev.* 10 (11): 26, 28, 30. Oct. 1948. 44.8 Am37
- 5734 WHITE, J. C. Are our pasteurization methods old-fashioned? *Amer. Milk Rev.* 10(10): 36. Oct. 1948. 44.8 Am38
- 5735 WIECHERS, S. G., ZEEUW, H. DE, and BOSCH, J. V. D. Pasteurizing of milk by means of electrical energy of high frequency. *Nederlands Melk- en Zuiveltijdschr.* 2: 59-69. Apr./June 1948. 44.8 N283
- Summary in Dutch.
- 5736 WILLITS, B. Better butter from a safe water supply. *Creamery J.* 59(10): 8, 24. Oct. 1948. 44.8 C86
- 5737 WILSTER, G. H. Factors influencing the texture of Cheddar cheese. *Austral. Milk & Dairy Prod. J.* 15(6/7): 23. June/July 1948. 44.8 Au72
- 5738 WILSTER, G. H. Things to consider when manufacturing ice cream of excellent quality. *Canad. Dairy & Ice Cream J.* 27(9): 38-42. Sept. 1948. 44.8 C162

## Statistics

5739 CONNECTICUT. MILK ADMIN. Compilation of statistical series pertaining to the dairy industry in Connecticut. New Haven? 1948. 41 p. 252.13 M59

5740 JENSEN, H. M. Denmark's dairy statistics 1948. (In Danish.) *Andelsbladet* 49: 1127-1128. Sept. 16, 1948. 280.28 An2

5741 NORWAY. STATISTISK SENTRALBYRÅ. L'industrie laitière de la Norvège, 1946. (In Norwegian.) 63 p. Oslo, 1948. (Norges offisielle statistik. X. 153.) 44.9 N832

Table of contents and summary also in English.

5742 PINNER, J. Butter and cheese production. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 1(3): 9-11. July 1948. 281.9 Au73

## Statistics.

5743 YOUNG, P. A. Fieldmen's records and their use. *Milk Dealer* 38(1): 158, 160, 162. Oct. 1948. 44.8 M595

## FEED AND FORAGE CROPS

5744 BERGER, W. Foreign feed picture brighter. *Feed Bag* 24(10): 41-42, 76. Oct. 1948. 389.78 F32

5745 BERRY, R. C. Report on crude protein in feeding stuffs (catalysts). *Assoc. Off. Agr. Chem. J.* 31: 617-620. Aug. 15, 1948. 381 As7

5746 BOSS, S. The feed situation. *Coop. Poultryman* 13(10): 2-3. Oct. 1948. 47.8 C782

5747 BOSS, S. Report on bulk feed delivery. *Coop. Poultryman* 13(10): 17. Oct. 1948. 47.8 C782

Chiefly on storage facilities.

5748 BREIMYER, H. F. Will big feed crops mean more meat, milk, and eggs? *Agr. Situation* 32(10): 6-7. Oct. 1948. 1 Ec7Ag

5749 BREIREM, K. Norwegian herring meal. (In Norwegian.) *Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Fôringslære. Særtrykk* 48, 19 p. Oslo, 1947. 389.79 N76

## Feed.

5750 COLLINS, H. L. Many new alfalfa [dehydration] plants in Kansas. *Agr. Situation* 32(10): 13. Oct. 1948. 1 Ec7Ag

5751 DAY, D. I. Problems of the batch mixer. *Amer. Miller & Processor* 76(9): 73. Sept. 1948. 298.8 Am32

## Feed formulas.

5752 DEMBINSKI, J. Landwirtschaftliche betriebslehre. IV. Organisation der futtermittelwirtschaft. *Landarbeiter Arch.* 3: 167-169. June 1948. 283.8 L23

## Austria.

5753 HUNTER, W. L. Report on crude fiber. *Assoc. Off. Agr. Chem. J.* 31: 616. Aug. 15, 1948. 381 As7

## In feed.



5754 HURST, F. J. A thriving community co-op. Prog. Farmer, Ga.-Ala.-Fla. Ed. 63(10): 16. Oct. 1948. 6 P945G

An alfalfa dehydration plant at Belle Mina, Ala.

5755 KARPER, R. E. From Africa to Texas is traced the rise of combine sorghums. Southwest. Crop & Stock 2(10): 26, 52. Oct. 1948. 6 So8942

5756 MINNESOTA. DEPT. OF AGRICULTURE, DAIRY AND FOOD. Twenty-ninth annual feed bulletin. St. Paul, 1947. 291 p. 389.49 M662

5757 NELSON, W. L., and others. Carotene retention in alfalfa meal; effect of blanching, packaging, and storage temperature. Indus. & Engin. Chem. 40: 2196-2198. Nov. 1948. 381 J825

J. K. Loosli, G. Lofgreen, and N. Yager, joint authors.

5758 PETROV, V. I. Furazh [Forage]. Moskva, Gostorgizdat, 1947. 46 p. (V Pomoshch' Prodavtsu) 389.7 P44

5759 PREZZI, C. El problema forrajero en el sur de la provincia de Córdoba. Bolsa de Com., Rosario. Rev. 36(877): 7-8. July 31, 1948. 287 R71

5760 RANDLE, S. B. Report on fat in cooked animal feeds containing cereals (acid hydrolysis). Assoc. Off. Agr. Chem. J. 31: 610-611. Aug. 15, 1948. 381 As7

5761 ROBERTSON, E. I. Extension and feed industry relationship. (Abs.) Poultry Sci. 27: 681-682. Sept. 1948. 47.8 Am33P

5762 ST. JOHN, J. L., and HUEY, E. E. Mineral constituents of mixed feeds. Assoc. Off. Agr. Chem. J. 31: 614-615. Aug. 15, 1948. 381 As7

5763 SCHULZ. Richtzahlen für die berechnung des futterflächenbedarfs. Neue Mitt. f. die Landw. 3: 87-88. Mar. 21, 1948. 18 N39

Germany.

5764 SEIDEL, K. Die trocknung von grünfutter und rübenblatt. Neue Mitt. f. die Landw. 3: 305-306. Oct. 5, 1948. 18 N39

5765 SEVERSON, H. Feeds can pay the overhead. Farm Impl. News 69(19): 59, 126. Sept. 9, 1948. 58.8 F22

5766 SHERMAN, S. The feed situation. Coop. Poultryman 13(9): 5. Sept. 1948. 47.8 C732

5767 SMITH, A. M., and COMRIE, A. The composition of Lothians' seeds-hay. Scot. Agr. 28: 67-70. Autumn 1948. 10 Sco82So

5768 SMITH, R. J. The feed and grain situation. Calif. Turkey News 1948: 21, 48. Sept. 1948. 47.38 C12

5769 STANSBY, M. E. Report on fat in fish meal. Assoc. Off. Agr. Chem. J. 31: 606-610. Aug. 15, 1948. 381 As7

5770 STICE, W. N. Are you selling feed or merely taking orders? Poultry Supply Dealer 25(11): 16-17, 22. Nov. 1948. 47.8 B11

5771 SVANBERG, O. On mineral feed and mineral feed mixtures. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(7): 12-13. Feb. 15, 1947. 11 J762

5772 TYSDAL, H. M. Conditioning various types of forage crops. Washington? U. S. Bur. Plant Indus., Soils, and Agr. Engin., 1948. 1 p. 1.965 F2C75

5773 WITTEVEEN, H. J. Report on microscopic examination of feeds. Assoc. Off. Agr. Chem. J. 31: 611-614. Aug. 15, 1948. 381 As7

5774 WORTHING, D. Feedmen & farmers on same team; one group's success depends on the other. Feed Bag 24(10): 15, 69. Oct. 1948. 389.78 F32

5775 ZIMMERMAN, H. Grass dehydrating is important industry. Skagit Co-op Dairyman 26(2): 5, 14-15. Oct. 1948. 280.28 Sk1

5776 ZIMMERMANN, G. Zur biologischen prüfung des einflusses der trocknung auf den nährwert der stickstoffhaltigen substanz in futter- bzw. nahrungsmitteln. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hygiene 39(1/3): 71-88. Ref. 1948. 389.9 Sw6

#### FIBERS AND TEXTILES

5777 AMERICAN WOOL COUNCIL. The American Wool Council; what it is, what it does, how it operates. New York, 1948? 16 p. 304 Am35A

5778 ATKINSON, C. P. Shrinkage control and dimensional stability of spun rayon fabrics. Textile Rec. 66(786): 68-70. Sept. 1948. 304.8 T311

5779 AUDLEY, R. S. Worsted spinning. Fibres 9: 357-359. Sept. 1948. 304.8 F16

5780 BENNETT, C. A. Ginning the 1948 crop. Cotton Gin & Oil Mill Press 49(19): 9. Sept. 18, 1948. 304.8 C822

5781 BLACKBURN, S., and LINDLEY, H. The mechanism of set and supercontraction in wool fibres. Soc. Dyers and Colourists. J. 64: 305-312. Sept. 1948. 306.9 Sol

5782 BLENKINSOP, O. S. Higher prices at South African wool sales? Canad. Textile J. 65(20): 29. Oct. 1, 1948. 304.8 C16

5783 BOOTH, E. H. Le Secrétariat International de la Laine. Mouton 2: 61-62. June 10, 1947. 45.8 M86

5784 BOWDEN, C. M. American system used for fine worsteds. Textile World 98(10): 130-131, 198, 200, 203-204. Oct. 1948. 304.8 T315

Spinning.

5785 BOYD, R. S. Appraised wool position. Westralian Farmers' Co-op. Gaz. 12: 249. Oct. 1947. 280.28 W522

5786 BRUNER, W. H. Cooperative wool research. Ohio Farm Bur. News 28(2): 29, 38. Sept. 1948. 6 Oh34

5787 CADY, W. H. Terylene, the new British fiber. Amer. Dyestuff Rptr. 37: 699, 702. Oct. 18, 1948. 306.8 Am3

5788 CAMARA ALGODONERA DEL PERÚ. Memoria anual correspondiente al año, 1947. Lima, 1947. 76 p. 287 C14

5789 CANADA. BUR. OF STATISTICS. CENSUS OF INDUSTRY. GENERAL MANUFACTURING STATISTICS. Report on the cotton textile industries in Canada, 1946. Ottawa, 1948. 48 p. 253 C332I

5790 CARTER'S flax, hemp and jute year book and directory, 1947-48. Belfast, North. Ireland, H. R. Carter P., 1948. 136 p. 304 F61

5791 CASEY, R. S., and GROVE, C. S., JR. Fibers. Indus. & Engin. Chem. 40: 1793-1798. Oct. 1948. 381 J825

Bibliography.

5792 CHAO, L. Y. Recent improvements and extension of cotton in the U. S. A. (In Chinese.) Monthly Farmers' Bank China 9(3): 16-22. Mar. 1948. 281.9 F225M

English summary.

5793 DAS, N. K. Prospects of cotton mill industry in Bengal. Indian J. Econ. 28: 533-546. Apr. 1948. 280.8 In22

5794 DAVIS, F. E. Wool and its international importance. Foreign Agr. 12(9): 187-191. Sept. 1948. 1.9 Ec7For

5795 DENBRIDGE, C. R. Vinyon N, a synthetic fibre based on vinyl copolymer. Fibres 9: 335-340. Sept. 1948. 304.8 F16

5796 DERRY, R. L., and ROFF, W. J. Cellulose textile chemistry. Soc. Chem. Indus. Rpts. Prog. Appl. Chem. 32: 226-244. Ref. 1947. 382 M31R

5797 DODI, R. The wool industry of France in the proposed Italo-French economic union. (In Italian.) Laniera 62: 171, 173, 175, 177, 179, 181, 183. Apr. 1948. 45.8 B63

5798 DOVECEA, J. M. Audacia económica: el monopolio de tejidos. Rev. Nac. de Cien. Polít.-Econ.-Sociales 7(82): 18. Sept. 1948. 280.8 R3295

Cuba.

5799 DUQUENNE, G. La production et les besoins de l'industrie lainière française. Mouton 3: 15-18. Feb. 10, 1948. 45.8 M86

5800 EDELSTEIN, S. M., and DRAVES, C. Z. A re-examination of wetting tests. (Sum.) Amer. Dyestuff Rptr. 37: P679. Oct. 18, 1948. 306.8 Am3

For cotton.

5801 EGYPT. MINISTRY OF AGRICULTURE. Cotton and cotton statistics in Egypt. Cairo, 1948. 120 p. 72 Eg94C

5802 ELDER, R. Linter cleanliness. Oil Mill Gaz. 53(3): 36-37. Sept. 1948. 307.8 O153

5803 FELDMAN, G. J. A novice's trip through a cotton gin. Cotton Gin & Oil Mill Press 49(21): 12. Oct. 16, 1948. 304.8 C822

5804 FISHER, F. The preservation of hard fibres against mould and fungoid growth. Fibres, Fabrics & Cordage 15: 331-332. Oct. 1948. 304.8 Ir42



- 5805 GALPIN, N. A study of wool growth. II. Mean fibre thickness, density of fibre population, the area of skin covered by fibre, and the mean fibre length. *J. Agr. Sci. [London]* 38: 303-314. July 1948. 10 J822
- 5806 HALL, A. J. The principles of textile bleaching I. The bleaching of cellulose fibres. *Fibres* 9: 351-354. Sept. 1948. 304.8 F16
- 5807 HAMBORG, G. Sorgt für den flachs! Versorgung 3(1): 5-6. Aug. 1948. 280.8 V61  
Russian Zone of Germany.
- 5808 HAYDEN, H. The impact of mechanization on the cotton ginner. *Cotton Gin & Oil Mill Press* 49(22): 5-6, 10. Oct. 30, 1948. 304.8 C822
- 5809 HENDERSON, A. E. Wool in New Zealand. *Lincoln Col. Rur. Ed. B.* 3(6): 5-13; (7): 12-20. July-Aug. 1948. 109 L63R
- 5810 HOFFMAN, M. T. Methods of depitching wool & removing vegetable matter without carbonizing; new patented method of wool scouring removes grease and paint and tar simultaneously; another method eliminates vegetable matter contained in wool. *Canad. Textile J.* 65(20): 40-42. Oct. 1, 1948. 304.8 C16
- 5811 HOSKING, S. M. The flax industry in Australia. *Textile J. Austral.* 23: 366-368, 370. July 20, 1948. 304.8 T3134
- 5812 HSU, K. T. Wool industry of China. *China. Min. Agr. and Forestry. Misc. P.* 1: 14-15. Apr. 1948. 22.5 C4412M
- 5813 ILLMAN, W. I., and others. Rot resistance of cotton duck treated with chelate copper compounds. *Canad. J. Res. Sect. F, Technol.* 26: 311-317. Aug. 1948. 470 C16F  
G. Sementiuk, A. C. Neish, and G. A. Ledingham, joint authors.
- 5814 INDIAN CENTRAL COTTON COMMITTEE. TECHNOLOGICAL LABORATORY. Spinning test reports No. 2250, 2258-2261, 2311-2312, 2314, 2337. *Indian Cent. Cotton Com. Technol. Lab. Technol. C.* 72A-732, 2-4 p. each. Oct. 1947, Jan., Mar-Apr. 1948. 72.9 In2332C
- 5815 INTER-AMERICAN ECONOMIC AND SOCIAL COUNCIL. Estado de la industria de las fibras vegetales en las repúblicas latinoamericanas. Washington, Union Panamericana, 1947. 188 p. 73 In8As
- 5816 JENKINS, J. S. Cotton ginning--costs and charges. *Cotton Gin & Oil Mill Press* 49(19): 16, 18, 24. Sept. 18, 1948. 304.8 C822
- 5817 JOHNSTON, A. Find wool core test is reliable indicator. *Natl. Live Stock Prod.* 27(2): 18. Nov. 1948. 280.38 N21
- 5818 JONES, C. L. The wool industry [in Australia] from the retailer's viewpoint. *Farmer & Settler* 43(27): 4. Aug. 6, 1948. 23 F226
- 5819 JOURDAIN, C. Echantillonnage et analyse du rendement des laines aux Etats-Unis. *Mouton* 3: 90-91. Sept. 10, 1948. 45.8 M86
- 5820 JUTE, canvas and cordage yearbook & directory. 30th, 1947-48, 168 p. London, 1948. 73.38 J98
- 5821 KASWELL, E. R. Low temperature properties of textile materials. (Sum.) *Amer. Dyestuff Rptr.* 37: P682. Oct. 18, 1948. 306.8 Am3
- 5822 KATZ, S. M., and HALSEY, G. D., JR. A new theory of non-linear viscous elasticity. II. The curve shape factor. *Textile Res. J.* 18: 557-559. Sept. 1948. 304.8 T293  
Wool.
- 5823 KAWASHIMA, M. Hard fibres spinning and weaving. *Oriental Econ.* 15: 705-708. Aug. 28, 1948. 280.8 Or4
- 5824 KEH, K. Report on China's silk industry during the period 1946-1947. *China. Min. Agr. and Forestry. Misc. P.* 1: 73-74. Apr. 1948. 22.5 C4412M
- 5825 KENCHINGTON, K. W. L. The micro-biological deterioration of cellulosic textiles I. *Fibres* 9: 348-350. Sept. 1948. 304.8 F16
- 5826 KIRBY, R. H. Fibres in brush-making. I. *Fibres* 9: 389-391. (Cont.) Oct. 1948. 304.8 F16
- 5827 KLUGE, H. The flax spinning industry in war-time Germany. *Linen Trade C.* 34(19): 1, 3. May 8, 1948. 304.8 L64
- 5828 KROESE, W. T. Recent development in export of our [Netherlands] cotton manufactures. II. *Econ.-Statist. Ber.* 33: 730-732. Sept. 15, 1948. 280.8 Ec722  
English summary, p. 723.
- 5829 LALLOUR, M. Le marché lainier français. *Mouton* 3: 61-62. June 10, 1948. 45.8 M86
- 5830 LONGOBARDI, C. Present conditions in the wool industry of Belgium. (In Italian.) *Laniera* 62: 299, 231, 233. May 1948. 45.8 B63
- 5831 MCCALL, E. R., and others. The organic acid content of various samples of raw cotton fiber in relation to ash alkalinity and leaching by rain. *Science* 108: 360-361. Oct. 1, 1948. 470 Sci2  
V. O. Cirino, S. M. Stark, Jr., and J. D. Guthrie, joint authors.
- 5832 MCDONALD, A. King cotton is sick again. *Okla. Union Farmer* 29(10): 2. Sept. 1948. 280.28 Ok4
- 5833 MCVEY, D. H. Cotton replaces mesquite and cactus. *News Farmer Coops.* 15(7): 12-14. Oct. 1948. 166.2 N47  
Growth of cooperative gin associations in Texas following an increased cotton acreage.
- 5834 MANN, M. G. Small American carryover of 3,000,000 bales threat to security of the Nation. *Mid-South Cotton News* 28(8): 1. Sept. 1948. 472 Sco8
- 5835 MATHAI, A. O., VARIER, N. S., MOUDGILL, K. L. Retting of coconut husks. II. The tensile strength of coir fibre. *J. Sci. & Indus. Res.* 7B: 119-123. Aug. 1948. 475 J82
- 5836 MEDEIROS, J. A. B. DE. Cotton in the economy of Rio Grande do Norte. (In Portuguese.) *Lavoura* 52: 54-60. (Concl.) Mar./Apr. 1948. 9.2 L39
- 5837 MONCRIEFF, R. W. Textile instruments. VIII. Testing fastness to light. *Fibres* 9: 381-383. (Cont.) Oct. 1948. 304.8 F16
- 5838 MOORADIAN, S., and MILLSON, H. E. Importance of pH control in wool processing. *Rayon & Synth. Textiles* 29(10): 92-94; (11): 94. Oct.-Nov., 1948. 304.8 R21
- 5839 MUELLO, C. A. El yute. *Campo y Suelo* Argentino 32(382): 54-55. Aug. 1948. 9 C15
- 5840 NEW YORK COTTON EXCHANGE. Costs of delivering and receiving cotton on New York Cotton Exchange contract at designated delivery points; general information, season 1948-1949. N. Y., 1948. 14 p. 287 N488Cog
- 5841 NEW ZEALAND WOOL BOARD. Annual report and statement of accounts, 4th, 1948, 24 p. Wellington, 1948. 45.9 N486
- 5842 NODDER, C. R. The extensibility of jute yarns. *Jute & Canvas Rev.* 20(240): 17, 20. Sept. 1948. 73.38 J982
- 5843 OLLEA, D. E. El algodón, para poblar tierras y crear riqueza colonizadora, economía interna y de exportación. *Gac. Algodonera* 24(294): 1-2. July 31, 1948. 72.8 G11  
Argentina.
- 5844 OLLEA, D. E. Fomentar el cultivo del algodón, es hacer obra de colonización, arraigar industrias y economía comercial. *Gac. Algodonera* 24(295): 1-3. Aug. 31, 1948. 72.8 C11  
Argentina.
- 5845 ORCHARD, M. Cotton's on the hottest spot. *South. Agr.* 77, i. e., 78(10): 15. Oct. 1948. 6 So83  
Cotton situation.
- 5846 OWEN, C. P. Lint certification in Mississippi. *Cotton Gin & Oil Mill Press* 49(21): 7-8. Oct. 16, 1948. 304.8 C822
- 5847 PETERS, L., and SPEAKMAN, J. B. The visco-elastic properties of wool fibers. *Textile Res. J.* 18: 511-518. Ref. Sept. 1948. 304.8 T293
- 5848 PREHN, W. F. "Wool on wheels." *New Zeal. Farmer* 69(12): 9. Aug. 5, 1948. 23 N484  
Australian traveling display unit.
- 5849 PRINGLE, A. V. The theory and practice of flax spinning. *Fibres, Fabrics & Cordage* 15: 290-293, 289, 326-329. Sept.-Oct., 1948. 304.8 Ir42
- 5850 REID, J. D., and DAUL, G. C. The partial carboxymethylation of cotton to obtain swellable fibers. II. *Textile Res. J.* 18: 551-556. Sept. 1948. 304.8 T293
- 5851 REMUSSI, C. La industrialización del lino en la República Argentina. *Bolsa de Com., Rosario. Rev.* 36(877): 3-5. July 31, 1948. 287 R71
- 5852 ROEHRICH, O. L'Institut Textile de France et les recherches techniques lainières. *Mouton* 2: 73-74. July 10, 1947. 45.8 M86
- 5853 SEN, D. L. Technological reports on trade varieties of Indian cottons. *Indian Cent. Cotton Com., Technol. Lab., Technol. B. Ser. A:* 68, 104 p. Bombay, 1947. 72.9 In2332A



5854 SEN, S. R. Marketing and production control in the Indian jute textile industry (1884-1943). *Indian J. Econ.* 28: 483-508. Apr. 1948. 280.8 In22

5855 SHEN, W. F. The increase of cotton production amidst economic maladjustments. (In Chinese.) *Monthly Farmers' Bank China* 9(3): 9-15. Mar. 1948. 281.9 F225M

English summary.

5856 SICOT, Y. La laine et l'artisanat marocain. *Mouton* 3: 95. Sept. 10, 1948. 45.8 M86

5857 SMITH, G. A wonderful wool year. *Westralian Farmers' Co-op. Gaz.* 14(359): 15-16. July 1948. 280.28 W522

5858 SMITH, L. Cotton plans a research program. (Sum.) *Amer. Dyestuff Rptr.* 37: P678. Oct. 18, 1948. 306.8 Am3

5859 SMITH, R. S. Australia's wool cheque. *Country Life [Sydney]* 60(6, Wool Ann.): 3. Aug. 6, 1948. 286.85 Sy2

5860 STERLING, J. R. Modernized facilities for shipping sisal. *Cord Age Mag.* 50(2): 8, 34. Aug. 1948. 73.8 C812

5861 STOVES, J. L. The chemical technology of wool. VI. Milling. *Fibres* 9: 377-379. Oct. 1948. 304.8 F16

5862 SWEN, E. L. A brief summary of the work of the Cotton Production Administration. *China. Min. Agr. and Forestry. Misc. P.* 1: 9-10. Apr. 1948. 22.5 C4412M

5863 SWERDLOW, M., and SEEMAN, G. S. A method for the electron microscopy of wool. *Textile Res. J.* 18: 536-550. Ref. Sept. 1948. 304.8 T293

5864 THORIA, L. Staple fibre has a strong case in India. *Indian Textile J.* 58: 884-889. July 1948. 304.8 In2

5865 TIPTON, B. El hilado de algodón reemplaza al de lino. *Chacra* 18(215): 96-97, 153. Sept. 1948. 9 C34

5866 TONER, R. K., BOWEN, C. F., and WHITWELL, J. C. Moisture determination in textiles by electrical meters. I. *Textile Res. J.* 18: 526-535. Sept. 1948. 304.8 T293

5867 TORRES FILHO, A. Progress in the production of Brazilian fibers. (In Portuguese.) *Lavoura* 52: 26-31, 34. May/June 1948. 9.2 L39

5868 TRAILL, D. The protein fibres. *Soc. Chem. Indus. Rpts. Prog. Appl. Chem.* 32: 212-225. Ref. 1947. 382 M31R

5869 TURNER, R. Economic aspects of the cotton industry of northern Nigeria. *Empire J. Expt. Agr.* 16: 178-186. Ref. July 1948. 10 Em7

5870 U. S. BUR. OF THE CENSUS. Cotton production and distribution season of 1946-47. U. S. Bur. Census. B. 184, 84 p. 1948. 157.41 B89

Statistical.

5871 U. S. COMMODITY EXCHANGE AUTHORITY. Cotton futures: classification of open contracts, all contract markets combined end of each month, August 1945-July 1948. Washington, 1948. Chart. 1.945 C82

5872 WAGNON, A. Le triage des laines à l'usine. *Mouton* 2: 56. May 10, 1947. 45.8 M86

5873 WARD, K., JR. Recent research on cotton properties at the Southern Regional Research Laboratory. (Sum.) *Amer. Dyestuff Rptr.* 37: P678. Oct. 18, 1948. 306.8 Am3

5874 WATKINS, T. D., JR. Fleece value increases with staple length. *Natl. Wool Grower* 38(10): 17-18. Oct. 1948. 45.8 N21N

5875 WHITE, E. D. Problems facing American cotton. Washington, U. S. D. A., 1948. 13 p. 1.957 W58

World cotton situation.

5876 WILKINSON, E. Shrinkage control, a stretch of the imagination? *Amer. Dyestuff Rptr.* 37: P733-P735. Nov. 1, 1948. 306.8 Am3

Wool shrinkage.

5877 WOOL INDUSTRIES RESEARCH ASSOCIATION, LEEDS. Report of the proceedings at the... annual general meeting, 29th, 1948. Leeds, 1948. 7 p. 304.9 W88Rp

5878 YSITA, E. National economy of Peru. I. The economic role of Peruvian cotton 1916-1948. *Com. Pan Amer.* 182, 37 p. Sept. 1948. 280.8 C736

5879 ZART, A. Die wirtschaftliche entwicklung der kunstfaserindustrie in den letzten jahren und ihre weiteren aussichten. *Angew. Chem.* 20: 143-145. May/June 1948. 384 C428

5880 ZIENKIEWICZ, H. Experiments in flax retting at various temperatures. (In Swedish.) *Lin, Dansk-Svensk Hørtidsskr.* 2: 129-133. Aug. 1948. 73.18 L63

## FRUITS, VEGETABLES, AND NUTS

5881 ALLUE, A. Por tierras catalanas—fábricas y talleres; viñedos, frutales y hortalizas. *Ceres [Valladolid]* 13(146): 13, 15. Aug. 1, 1948. 15 C33

5882 BARKER, B. T. P. The farm orchards of Worcestershire in relation to the cider industry. *Worcestershire Agr. Chron.* 16: 287, 289, 291, 293, 295, 297, 299. Aug. 1948. 10 W892

5883 BERTHET, R. Pensons a nos pommes de terre de semence. *Paysan Franç.* 24(369): 8-9. Sept. 1948. 14 P29

5884 BLOUCH, A. The story of fruit. *J. Geog.* 47: 276-284. Oct. 1948. 278.8 J82

The industry.

5885 BLUEBERRY pie! *Oreg. Dept. Agr. B.* 159: 30-32. Sept. 1948. 2 Or3

Blueberry industry.

5886 BURKE, A. J. Consider the Brazil nut. *Brazil* 22(9): 10-11, 17. Sept. 1948. 280.8 B732

5887 CARR, C. B. Apple juice survey. *East Fruit Grower* 10(9): 10, 30. Nov. 1947. 80 Ea73

5888 CHAMINADE, R. Le régime économique de la viticulture [France]. *Monit. Agr.* 1(22): 12. June 13, 1948. 14 M744

5889 CHANDLER, J. Prospects for the apple industry. *Maine State Pomol. Soc. Ann. Rpt.* 75: 30-35. 1948. 81 M28

5890 CHANEY, C. M. What does this year's big crop mean? *Cranberry World* 2(11): 3-4. Sept. 1948. 280.28 C85

5891 DREW, F. W. Malay pineapple industry makes progress. *West. Canner & Packer* 40(11): 55-56. Oct. 1948. 286.83 W522

5892 FARLEY, M. E. Apple trends in Michigan. *East. Fruit Grower* 10(8): 10-11, 15, 17. (Concl.) Oct. 1947. 80 Ea73

5893 GESSNER, A. L. Buyers point out sources of citrus juices. *News Farmer Coops.* 15(7): 19-20. Oct. 1948. 166.2 N47

5894 HARRINGTON, L. Money in mushrooms. *Family Herald & Weekly Star* 79(41): 3. Oct. 13, 1948. 7 F21

The industry in British Columbia.

5895 HEID, J. L. Orange juice without the squeeze. *Citrus [Tampa]* 11: 10-11. Sept. 1948. 80 C498

5896 HOARD, B. New apple production methods help offset weather, markets. *Wash. Farmer* 73: 721. Oct. 7, 1948. 6 R151

5897 IGOT, Y. Le problème fruitier et son avenir; la formule rentable: le verger commercial. *Monit. Agr.* 1(30): 6. Aug. 8, 1948. 14 M744

5898 JOURDAIN, T. Organization and grading are essential to Quebec fruit growers. *Quebec. Pomol. and Fruit Growing Soc. Ann. Rpt.* 1947: 10-14. 82 Q3

5899 KRISHNAMURTHI, S. The California citrus industry. *Indian Farming* 9: 143-147. Apr. 1948. 22 In283

5900 LARSEN, L. J. The big potato crop. (In Danish.) *Dansk Landbr.* 67: 347. Sept. 16, 1948. 280.28 V91

5901 MARGAILLAN, L. Les hespéridées et leurs essences. *Marseille. Inst. Colon. Cahiers Colon., n. s.*, 1948: 215-219. June/July 1948. 286.8 M35

Citrus fruit.

5902 MARGOLIS, J. A. Grapes need a holiday. *Wines & Vines* 29(9): 11-12. Sept. 1948. 95.8 C122

Surpluses and production control.

5903 MEYER, E. A. A future for apple production. *Wis. Hort.* 39: 6. Sept. 1948. 80 W752

5904 MEYER, E. A. What is the future of apples? *East. Fruit Grower* 11(7): 4, 8-9, 17, 21. (To be cont.) Sept. 1948. 80 Ea73

5905 PEYER, E. Die situation in den rebbergen der deutschsprachigen Schweiz. *Schweiz. Z. f. Obst- u. Weinbau* 57: 326-327. Sept. 11, 1948. 80 Sch9

5906 RICE, W. S. Fruit harvest unusually late; prunes over 20 points smaller in size with much off-grade fruit being produced. *Sunsweet Standard* 32(5): 4-5, 11. Oct. 1948. 286.83 Su7



5907 SCHELLENBERG, A. Weinernteaussichten in der deutschen Schweiz im Herbst 1948. Schweiz. Z. f. Obst- u. Weinbau 57: 349-357. Sept. 25, 1948. 80 Sch9

5908 SOUTHWICK, F. W., and HURD, M. Harvesting, handling, and packing apples. N. Y. Agr. Col. Cornell Ext. B. 750, 37 p. Sept. 1948. 275.29 N48E

5909 STEVENSON, F. J. The potato—a leading world food crop. Foreign Agr. 12: 211-216. Oct. 1948. 1.9 Ec7For

5910 TELEKI, A. La situation viticole en Autriche. Off. Internatl. du Vin. B. 21(209): 60. July 1948. 390.8 B87

5911 TELEKI, A. Situation viticole en Hongrie. Off. Internatl. du Vin. B. 21(209): 61-62. July 1948. 390.8 B87

5912 TINDALL, C. Grapes by the ton; a natural crop for the Ozarks. Mo. Ruralist 89(17): 6, 30. Sept. 11, 1948. 6 R8891

5913 WEBBER, W. T. Final payments on 1947 crop; 1948 coast crop ten per cent larger. Diamond Walnut News 30(5): 3. Sept. 1948. 94.68 D34

#### Analysis and Composition

5914 ADAM, W. B., and DICKINSON, D. The dry solids and sugar content of processed peas. Bristol U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1946: 52-58. 389.9 B77A

5915 DARBISHIRE, O. B. A colorimetric method for the approximate estimation of tomato solids. Analyst 73: 457-458. Aug. 1948. 382 An1

5916 GORESLINE, H. E. Report on microbiological methods for frozen fruits and vegetables. Assoc. Off. Agr. Chem. J. 31: 519-521. Aug. 15, 1948. 381 As7

5917 HANOWER, P. Sur l'évolution du contenu glucidique des tubercules de topinambours et de leurs germes à la fin de la période de conservation. Paris. Acad. des Sci. Compt. Rend. 227: 360-362. Aug. 2, 1948. 505 P21

5918 HENRY, A. M. Report on nuts and nut products. Assoc. Off. Agr. Chem. J. 31: 521-525. Aug. 15, 1948. 381 As7

5919 HOFSTEE, J. On the globulin-albumin ratio of potato protein. Biochim. et Biophys. Acta 2: 263-264. Aug. 1948. 381 B522

5920 MCCOLLOCH, R. J., and KERTESZ, Z. I. Pectins, giants among molecules are still too small to see. Farm Res. [N. Y. State Sta.] 14(4): 7. Oct. 1948. 100 N48A

5921 MORPETH, J. C. The composition of concentrated tomato purée and the estimation of the tomato content of tomato ketchup. Analyst 73: 449-457. Aug. 1948. 382 An1

5922 POLLARD, A., KIESER, M. E., and BRYAN, J. D. Factors influencing the composition of the tomato. Soc. Chem. Indus. J. 67: 281-283. Ref. July 1948. 382 M31

5923 PONTING, J. D., and JOSLYN, M. A. Ascorbic acid oxidation and browning in apple tissue extracts. Arch. Biochem. 19(1): 47-63. Ref. Oct. 1948. 381 Ar2

5924 SONDHEIMER, E., and KERTESZ, Z. I. The anthocyanin of strawberries. Amer. Chem. Soc. J. 70: 3476-3479. Oct. 1948. 381 Am33J

5925 VERONA, O. Some yeasts in pickles. (In Italian.) Pisa. U. Osserv. Region. di Fitopat. [Mem.] 216: 3-17. 1947. 464.9 P67

Geotrichum candidum and Debaryomyces globosus.

#### Consumption and Utilization

5926 CHILD, R., and NATHANAEI, W. R. N. Utilisation of coconut water. Trop. Agr. [Ceylon] 103: 85-89. Ref. Apr./June 1947. 26 T751

5927 DALMASSO, G. Fruit surplus? Direct utilization and derived products. (In Italian.) Alimenti 4: 124-127. July/Aug. 1948. 389.8 AL44

5928 ESKEW, R. K., EDWARDS, P. W., and REDFIELD, C. S. Recovery and utilization of pulp from white potato starch factories. U. S. Bur. Agr. and Indus. Chem. AIC-204, 7 p. Sept. 1948. 1.932 A2Ag82

5929 JOUGAN, E. Poires et pommes d'été et d'automne; comment les consommer à point? Monit. Agr. 1(31): 6. Aug. 15, 1948. 14 M744

5930 KESSELRING, H. Absatzschwierigkeiten für marc. Schweiz. Z. f. Obst- u. Weinbau 57: 283-285. Aug. 14, 1948. 80 Sch9

5931 MEYERS, T. What housewives like and dislike about potatoes. Agr. Situation 32(9): 8-9. Sept. 1948. 1 Ec7Ag

5932 PICKETT, J. E. An apple a day. Calif. Farmer, North. Ed. 189: 262. Sept. 25, 1948. 6 C126

Utilization of the Gravenstein apple.

5933 TREADWAY, R. H. Utilization of white potatoes. Amer. Potato J. 25: 300-302. Aug. 1948. 75.8 P842

#### Distribution, Marketing, and Transportation

5934 APPALACHIAN APPLE SERVICE. Report to members: the 1947-8 season, the 12th year. n. p., 1948. 10 p. 280.3939 Ap4A

5935 BLOKOM, J. M. Trends in marketing. East. Fruit Grower 11(7): 7, 10, 16. Sept. 1948. 80 Ea73

5936 CADILLAT, R., and NAVILLE, R. Le marché bananier français en 1947. Fruits d'Outre Mer 3: 307-309. Aug./Sept. 1948. 80 F9492

5937 CHANEY, C. M. Sale of fresh cranberries off to good start! Cranberry World 2(12): 3-4. Oct. 1948. 280.28 C85

5938 COLLINS, J. H. Better selling of better produce. West. Grower & Shipper 19(10): 12-13. Sept. 1948. 280.38 W52

5939 FRANTZ, P. D. Marketing Pennsylvania potatoes, 1948 crop. Guide Post 25(8): 11-12. Aug. 1948. 75.8 G94

5940 HAMILTON, H. G. Distribution of citrus in relation to population centers. Citrus Indus. 29(10): 7-8, 20-21. Oct. 1948. 80 C49

5941 HEICK, F. Potato marketing prospects. (In Danish.) Dansk Landbr. 67: 309-310. Aug. 19, 1948. 280.28 V91

5942 JAIVENOIS, A. Fruits bien présentés, fruits bien vendus. Courrier Hort. 10: 470-471. Aug. 1948. 80 C834

5943 KEIDEL, F. A. A citrus marketing plan that will work. Good Earth Mag. 2(11): 2. Sept. 1948. 6 G59

5944 KITCHEN, C. W. Can we sell more fresh fruits and vegetables? Citrus Indus. 29(10): 9, 15. Oct. 1948. 80 C49

5945 LOUTH, J. D. Re-examine your marketing program. Wines & Vines 29(9): 15-16. Sept. 1948. 95.8 C122

5946 LYMAN, J. Panel on marketing. Mass. Fruit Growers' Assoc. Rpt. 54: 66-76. 1948. 81 M384

5947 MARVIN, L. W. New York and New England Institute plans. Mass. Fruit Growers' Assoc. Rpt. 54: 19-21. 1948. 81 M384

Advertising.

5948 MAXTON, J. L. Information for sweet corn marketers. Mkt. Growers J. 77(9): 27, 36. Sept. 1948. 6 M34

5949 MEDLEY, J. J. Citrus marketing; efficient supply service as consumption aid: South Australia's quality advantage. Citrus News 24: 102-103. July 1948. 80 C494

5950 MERCKER, A. E. The market outlook for United States seed potatoes in western Europe. U. S. Off. Foreign Agr. Relat. FFV-4, 16 p. Sept. 27, 1948. 1.943 F7635

5951 MITCHELL, E. W. Apple growers are "Children of Fate." Amer. Agr. 145: 524. Oct. 2, 1948. 6 Am3

Marketing situation.

5952 MOORE, J. C. Oregon's stake in the potato market. Ore. Dept. Agr. B. 159: 16-18. Sept. 1948. 2 Or3

5953 NADAUD, F. L'agriculteur français en face de la coopérative: la coopération en viticulture. Monit. Agr. 1(24): 4. June 27, 1948. 14 M744

5954 PATILLO, L. S. Vegetable Day in Houston. Fruit & Veg. Rev. 9(6): 16, 30. Sept. 1948. 80 C1224

5955 PIPER, W. E. Comments on the outlook for apple marketing. Mass. Fruit Growers' Assoc. Rpt. 54: 24-28. 1948. 81 M384

5956 RASMUSSEN, M. P., and GODWIN, M. R. Apples rank third in fruit purchased by housewives. Amer. Agr. 145: 537. Oct. 2, 1948. 6 Am3

5957 RAZZA, G. The auction system favors the development of the fruit and vegetable trade. (In Italian.) Alimenti 4: 132-134. July/Aug. 1948. 389.8 AL44



5958 RUSSELL, M. A million dollars in forty days. Colo. Rancher & Farmer 2(16): 1, 7. Aug. 28, 1948. 6 C714

Potato marketing by the Gilcrest Early Potato Association, Inc.

5959 TSCHIRITSCH. Verkehr mit kartoffeln. Kärntner Bauer 98: 286. Sept. 1, 1948. 19 K14

5960 U. S. PRODUCTION AND MARKETING ADMIN. The Benton Harbor fruit market at Benton Harbor, Mich., by R. F. Burdette and A. B. Lowstuter. Washington, 1948. 52 p. 1.956 M34B44

5961 VAIL, B. It's a yam good time to feature sweet potatoes! Natl. Grocers B. 34(9): 80-81. Sept. 1947. 286.83 N214

5962 VAN WAES, D. A. Retail distribution of fresh peaches in Syracuse, N. Y. N. Y. Agr. Col. A. E. 876, 48 p. Sept. 1948. 281.9 C81

5963 WESTCOTT, W. C., JR. A step forward. Citrus Indus. 29(10): 5-6. Oct. 1948. 80 C49  
Marketing procedures.

5964 YEAMAN, A. F. Scottish growers must study tomato [marketing] scheme. Farming News & North Brit. Agr. 100(38): 2. Sept. 10, 1948. 10 N82

#### Grading, Inspection, Standardization, and Quality

5965 ADAM, W. B. Estimation of maturity of canned green peas. II. Bristol. U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1947: 30-39. 389.9 B77A

5966 ADAM, W. B. Inspection of canned fruit and vegetables for quality, a new scheme. Bristol U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1946: 13-20. 389.9 B77A

5967 ANDREWS, M. Don't squeak by on grading. Amer. Fruit Grower 68(10): 11, 27. Oct. 1948. 80 G85

5968 BAKER, G. L., and WOODMANSEE, C. W. Grading pectins. Canner 107(16): 18. Oct. 16, 1948. 286.83 C16

5969 BEAR, E. M. Plums pay much better with proper grading. Grower 30(13): 484-485. Sept. 25, 1948. 286.83 M34

5970 BHAT, J. V., and RAGHUNATH, M. Water-melon (*Citrullus vulgaris* Schrad.) and food-poisoning. Cur. Sci. 17: 213. July 1948. 475 Sci23

5971 BLIN, H. Comment reconnaître la qualité d'un fruit sans le déguster. Acclimatation 75: 182. Aug. 28, 1948. 14 Ac2

5972 BOWMAN, G. A. Why not improve your sweet potatoes? Calif. Farmer, South. Ed. 189: 260. Sept. 25, 1948. 6 C126A

5973 CROSBY, J. New machine eliminates lemon sampling inequities. Calif. Farmer, South. Ed. 189: 184. Sept. 11, 1948. 6 C126A

5974 DUNLAP, W. H. Value is the thing to buy in seed potatoes. East. States Coop. 24(10): 10. Oct. 1948. 280.28 Ea7

5975 HARRIS, T. H. Report on decomposition in fruit products. Assoc. Off. Agr. Chem. J. 31: 501-507. Aug. 15, 1948. 381 As7

5976 HENLEY, J. H. Virginia apple grades and Grading Enforcement Program. Va. Fruit 36(9): 15-18. Sept. 1948. 81 V81B

5977 HIELE, T. VAN. Experiments to determine the keeping quality of varieties of onions (1946/47). (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 439-443. July 1948. 86 N384  
English summary.

5978 HUTCHINGS, E. Utah tomato grading; grading system encourages Utah growers to produce better tomatoes which bring higher prices. Utah Farmer 68(3): 10. Sept. 10, 1948. 6 D45

5979 JEHLE, R. A. Requirements for seed potato production and certification. Md. Agr. Col. Ext. B. 119, 34 p. Ref. May 1948. 275.29 M36B

5980 KRAMER, A., and SMITH, H. R. Effect of variety, maturity and canning procedures on quality and nutritive value of lima beans. Md. Agr. Expt. Sta. B. A47, p. 105-156. Aug. 1947. 100 M36S

5981 MESCHTER, E. E., and LATAILLADE, L. J. Preservers' stake in uniform pectin grading. Food Packer 29(11): 38, 40, 42. Oct. 1948. 286.83 C165

5982 NYGREN, V. E. Shipping point helps the farmer. Oreg. Dept. Agr. B. 159: 18-19. Sept. 1948. 2 Or3  
Fruit and vegetable inspection.

5983 WATSON, J. F. Increase your profits by good grade and pack. East. Fruit Grower 10(8): 4, 12. Oct. 1947. 80 Ea73

#### Packing and Packaging

5984 DICKINSON, D. The internal corrosion of cans; final report. Bristol U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1946: 21-30. 389.9 B77A

5985 FRISSELLE, P. Line preservation. Down to Earth 4(2): 15. Fall, 1948. 381 D75

Fruit protection during packaging.

5986 KRUYK, P. A., and ZANDE, R. V. D. Our new packaging abroad. (In Dutch.) Groenten en Fruit 4: 177. Sept. 23, 1948. 80 G89

Fruits and vegetables.

5987 LAPADU-HARGUES. La question de l'emballage pour fruits et légumes vue d'Angleterre. Rev. Agr. de l'Afrique du Nord 46: 386-387. July 30, 1948. 80 R326

5988 MAXIM, E. Pre-packaging survey. 4. Fruit, Flower & Veg. Trades' J. 94: 246-247. Aug. 21, 1948. 80 F946

Fruits and vegetables.

5989 OVERHOLSER, E. L. Picking and packing apples. South. Planter 109(9): 35. Sept. 1948. 6 So89

5990 PHILLIPS, T. R. Commission rules on carrot weights. West. Grower & Shipper 19(9): 13, 42-43. Aug. 1948. 280.38 W52

Packaging.

5991 TOBLER, H. Neuzeitliche obstverpackung in Holland. Grüne 76: 942-943. Sept. 3, 1948. 17 Sch9

5992 VAIL, B. Inside story of a produce packaging experiment. 3. Natl. Grocers B. 34(9): 72-73, 76, 98. Sept. 1947. 286.83 N214

#### Prices, Price Control, and Rationing

5993 HARRISS, R. W. Price control problems: best apples now under the counter! Fruit-Grower 106: 485. Oct. 14, 1948. 80 F941

5994 LOVE, A. B. Price supports for 1948 bean crop. Mich. Potato Growers Exch. 28(12): 3-4. Oct. 1, 1948. 75.8 M58

5995 MATKIN, T. D. Plum prices and publicity. Fruit, Flower & Veg. Trades' J. 94: 282-283. Aug. 28, 1948. 80 F946

5996 SCHWENNESEN, A. W. Factory lemons: statutory uniform price not likely to increase sales or returns to growers. Citrus News 24: 109-110. July 1948. 80 C494

5997 STEINER, W. Die wohlfeilen kartoffeln. Grüne 76: 864-866. Aug. 1948. 17 Sch9

#### Processing and Storage

5998 ADAM, W. B., and DOWSON, W. M. Canning trials. Bristol. U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1947: 24-29. 389.9 B77A

Currants that have been sprayed for black currant leaf-spot.

5999 ADAM, W. B., DOWSON, W. M., and MARSH, R. W. Effect of organic spray residues on canned black-currants. II. Bristol. U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1947: 19-20. 389.9 B77A

Spray for black currant leaf-spot, caused by *Pseudo-pepiza ribis*.

6000 AUBERT, P. Frigorifique et cave Krebser. Rev. Romande d'Agr., de Vitic. et d'Arbor. 4: 63-64. Aug. 1948. 17 J82A  
Fruit preservation.

6001 BEAMER, L. C. Saving the sweet potato crop. South. Planter 109(9): 22-23. Sept. 1948. 6 So89  
Harvesting, grading, curing and storage.

6002 BEDFORD, C. L., and MCGREGOR, M. A. Effect of canning on the ascorbic acid and thiamine in vegetables. Amer. Dietet. Assoc. J. 24: 866-869. Ref. Oct. 1948. 389.8 Am34

6003 BJØRN, A. S. Drying fruit. (In Danish.) Tidsskr. for Husholdning 27: 104-105. Sept. 1, 1948. 321.8 T43

6004 BOGARDUS, T. L. My experience in refrigerating a common storage house. East. Fruit Grower 10(9): 14-15. Nov. 1947. 80 Ea73



- 6005 BURRELL, L. A dairyman sees citrus juice processing. *Milk Messenger* 25(8): 2-3. Aug. 1948. 44.8 M5925
- 6006 CHAPMAN, P. W. World's largest pimiento cannery. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 63(10): 24-25. Oct. 1948. 6 P945G
- 6007 CLAYSON, D. H. F., and CHATER, D. W. The cleaning and sterilizing of plant and utensils in the food industry. *Chem. & Indus.* 39: 619. (Sum.) Sept. 25, 1948. 382 M31C
- 6008 CROCE, F. M. Preparación de higos al natural. *Campo y Suelo Argentino* 32(382): 58. Aug. 1948. 9 C15
- 6009 DRISCOLL, R. Freezing Calif. strawberries on large scale. *West. Canner & Packer* 40(11): 60-62. Oct. 1948. 286.83 W522
- 6010 DUFFAUT, A. Les conserveries de tomates en Roussillon; une réalisation coopérative "Lorte" à Perpignan. *Génie Rural* 41: 209-212. July/Aug. 1948. 58.8 Au8
- 6011 ELLIS, C. F. Mobile freezer aids growers with short operating season. *Refrig. J.* 1: 564, 566-568, 578. June 1948. 295.8 R255  
For fruit and vegetables.
- 6012 ERROLL, F. J. Bombarding fruit and vegetables with electrons. *Fruit, Flower & Veg. Trades' J.* 94: 342-343. Sept. 11, 1948. 80 F946
- 6013 GRAB, E. G., JR., WEGENER, J. B., and BAER B. H. Firming strawberries before freezing. *Food Packer* 29(12): 39, 42-43. Nov. 1948. 286.83 C165
- 6014 GRAY, H. E., and others. Frozen fruits & vegetables. V. Vegetable and fruit preparation. *Canad. Food Indus.* 19(10): 37, 39, 41, 43, 45. (Cont.) Oct. 1948. 286.83 C166  
F. B. Johnston, A. H. Jones, M. MacArthur, and W. R. Phillips, joint authors.
- 6015 GRIERSON-JACKSON. Dollar loss heavy where inefficient cold storage systems handle B.C.'s tree fruits; industry control of installation advised. *Country Life [Vernon]* 32(8): 8. Aug. 1948. 7 C832
- 6016 GROOT, H. DE. Storage of feed potatoes. (In Friesian.) *Friesch Landbouwbld* 45(34): 3. Aug. 20, 1948. 12 F91
- 6017 HAYES, R. Iced refrigerated produce. *Chain Store Age, Grocery Exec. Ed.* 24(10): 67, 176. Oct. 1948. 286.28 C34
- 6018 HAYS, W. R. How contact icing effects the quality retention of fruits and vegetables. *Refrigeration* 88(8): 5-7. Oct. 11, 1948. 295.8 Ic23
- 6019 HEINRICHS, P. Obstverwertung im Haushalt. *Obst- u. Gartenbau* 3: 46. Aug. 1, 1948. 80 Ob72
- 6020 HERBERT, J. T. Refrigerated gas storage of fruit. *Mod. Refrig.* 51: 230-231, 259-260. Sept.-Oct., 1948. 295.8 M72
- 6021 HERRERO DE EGANA, M., and REIG FELIU, A. Primeras experiencias sobre la desaireación y pasteurización rápida de los jugos de agrios. *Agr. Levantino* 14 (163): 11-12. June 1948. 15 Ag85
- 6022 HIRST, F., and ADAM, W. B. Variety trials: canning and quick freezing. *Bristol. U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt.* 1947: 11-18. 389.9 B77A
- 6023 JAUMES, L. La tomate de conserve. *Bouches du Rhône Agr.* 21(985): 3-4. Sept. 1, 1948. 14 B662
- 6024 JENSEN, T. Home manufacture of marmelade. (In Danish.) *Tidsskr. for Husholdning* 27: 105-106. Sept. 1, 1948. 321.8 T43
- 6025 KONDRUP, M. Freezing of fruit and vegetables. (In Danish.) *Tidsskr. for Husholdning* 27: 94-95, 98-100. Aug. 4-18, 1948. 321.8 T43
- 6026 LAGARDE, J. La bonne conservation des plants de pomme de terre. *Acclimatation* 75: 199. (Cont.) Sept. 18, 1948. 14 Ac2
- 6027 LAL, G., and LAL JAIN, N. Preservation of water melon juice. *Indian Farming* 9: 67-69. Feb. 1948. 22 In283
- 6028 LANE, J. B. My plans for a building & equipment for grading, packing, storage and sales. *East. Fruit Grower* 10(9): 15-16, 26. Nov. 1947. 80 Ea73
- 6029 LEE, F. A., and PEDERSON, C. S. Frozen apple juice. *Farm Res. [N. Y. State Sta.]* 14(4): 10. Oct. 1948. 100 N48A  
Also in *Canning Trade* 71(16): 7, 20. Nov. 8, 1948. 286.83 T67
- 6030 LEGHIS, L. M. La conservation des fruits; les diverses installations frigorifiques. *Paysan Franç.* 24(369): 14. Sept. 1948. 14 P29
- 6031 MCCULLOUGH, W. B. Argentina building cold storage for domestic seed potatoes. *Foreign Trade* 4: 660-661. Oct. 2, 1948. 286.8 C162
- 6032 MAGLADRY, R. D. Freezing our food; storage of fruit and vegetables in local refrigerated plants is spreading across Canada. *Family Herald & Weekly Star* 79(39): 5. Sept. 29, 1948. 7 F21
- 6033 MATAGRIN, A. Recherches récentes sur les conserves de fruits et de légumes. *Terre d'Oc* 30: 274-281. July 1948. 14 Ar5
- 6034 MILLAN, R., and PUJALS, E. A. Un ensayo de conservación de papa en silo semisubterráneo. *Argentina. Dir. Gen. de Labs. e Invest. Rev. de Invest. Agr.* 2: 89-92. Mar. 1948. 9 R329
- 6035 MOROCCO. SERVICE DE L'HORTICULTURE. MISSION HORTICOLE. Séchage solaire des figues et raisins. *Terre Maroc.* 18: 209-212. Aug. 1948. 24 T44
- 6036 NIVEN, L. A., and MCKINNEY, J. Freezers save berry growers. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 63(10): 126, 141. Oct. 1948. 6 P945K  
Strawberries and boysenberries.
- 6037 NORHEIM, A. Clamps for potatoes. (In Norwegian.) *Norsk Landbr.* 14: 347-348. Sept. 17, 1948. 11 N8122
- 6038 PEYER, E. Zur frage der zuckerung der traubenmoste. *Schweiz. Z. f. Obst- u. Weinbau* 57: 327-328. Sept. 11, 1948. 80 Sch9
- 6039 POULTNEY, S. V. Vinegar products. 8. *Food [London]* 17: 308-311. (Cont.) Oct. 1948. 389.8 F738  
Pickles.
- 6040 PRICE, T. H. My new refrigerated apple storage. *East. Fruit Grower* 10(9): 27-28. Nov. 1947. 80 Ea73
- 6041 ROGHANI, M. M. S. Dehydration of peaches. *North-West Frontier Prov., India. Dept. Agr. Q. Notes* 9: 24-27. Jan./Apr. 1947. 22 N814
- 6042 SCHOONENS, J. G. Use of lactic acid instead of citric acid in order to prevent browning of fruit. (In Dutch.) *Voeding* 9: 155-161. Aug. 15, 1948. 389.8 V85  
English summary.
- 6043 SEELIG, R. A. Will I water my vegetables? *Yankee Food Merchant* 8(8): 5. Aug. 1948. 286.83 Y1  
In the retail store.
- 6044 SMOCK, R. M., KAYAN, C. F., and FRANCIS, J. G. Controlled air distribution is secret of good apple storage. *Refrig. J.* 1: 580-581, 589-592. June 1948. 295.8 R255
- 6045 TAYLOR, A. Two good methods for bottling apples, pears, tomatoes. *Smallholder* 79(2007): 14-15. Sept. 17, 1948. 10 Sml
- 6046 TESCH, E. Qualitätsüberwachung in der obst- und gemüseverarbeitenden industrie. *Versorgung* 3(1): 9-10. Aug. 1948. 280.8 V61  
Russian Zone of Germany.
- 6047 TRESSLER, D. K. Freeze apples for a year round supply. *New England Homestead* 121(16): 24, 26. Aug. 28, 1948. 6 N442  
Also in *Hoard's Dairyman* 93: 746-747. Oct. 10, 1948. 44.8 H65
- 6048 TRESSLER, D. K. Freezing apricots & peaches. *Pa. Farmer* 139: 104. Aug. 28, 1948. 6 P385
- 6049 VAN DOREN, A. Waxing apples and air conditioning the storage house. *East. Fruit Grower* 10(9): 13-14. Nov. 1947. 80 Ea73
- 6050 WOLFF, O. Die fabrikation der kartoffelstärke. *Deut. Bauerntech.* 2(5/6): 34-37. May/June 1948. 58.8 D48
- 6051 WOODROOF, J. G., and others. The preparation of peaches for freezing. 4-5. *Frozen Food Indus.* 4(9): 8-10; (10): 10-12. Sept.-Oct., 1948. 389.8 F93  
E. Shelor, S. R. Cecil, and I. Atkinson, joint authors.
- 6052 WOODROOF, J. G., SHELOR, E., and CECIL, I. A. Research on frozen sweet corn. *Food Packer* 29 (11): 34, 36, 42, 44. Oct. 1948. 286.83 C165
- 6053 WRIGHT, R. C. Report on potato chip studies by the United States Department of Agriculture. *Potato Chipper* 8(4): 6, 8, 10, 12.
- 6054 YOURGA, F. J. Quality control for the small food packer. *Glass Packer* 27(10): 759-760. Oct. 1948. 309.8 G463



## GRAIN AND GRAIN PRODUCTS

6055 ALBERTINI, F. Rice culture in Italy, 1938 to 1947. (In Italian.) B. dell'Agr. 82(16): 1-2. July 30, 1948. 16 B87

6056 ALLEN, F. D. Millers prove washing wheat pays dividends. Northwest. Miller, Milling Prod. Sect. 236(2): 6a-7a. Oct. 12, 1948. 298.8 N81

6057 ALLEN, F. D. New developments in building mill machinery. Northwest. Miller, Milling Prod. Sect. 236(2): 1a, 17a, 19a-21a. Oct. 12, 1948. 298.8 N81

6058 AMERICAN RICE GROWERS COOPERATIVE ASSOCIATION. Annual report of the general manager, 1947-1948. Lake Charles, La., 1948. 16 p. 280.2599 Am3

6059 ANDERSON, H. G. Wheat is King. Dakota Farmer 68(18): 18, 20. Sept. 18, 1948. 6 D14  
History of production and prices.

6060 ARONOVSKY, S. I., and others. Agricultural residue pulps, high-yield straw pulps for fine papers. (Sum.) Fibre Containers 33(9): 24. Sept. 1948. 286.8 F44

G. H. Nelson, A. J. Ernst, H. M. Sutcliffe, and E. C. Lathrop, joint authors.

6061 ATKINSON, F. M. Bulk flour storage--its meaning to bakers. Bakers' Helper 90(1127): 75-76. Oct. 2, 1948. 389.8 B17

6062 ATTOLINI, J. El maíz en la cuenca del Papaloapan. Rev. de Econ. 11(9): 6-11. Sept. 15, 1948. 280.8 R3293

6063 BADIA, V. El arroz quedó plantado; interesantes acuerdos de una asamblea en París; la exportación de naranja vista en el mes de junio. Agr. Levantino 14(163): 17-18. June 1948. 15 Ag85  
Spain.

6064 BARRE, H. J. Problems in the drying of high moisture shelled corn in farm-type bins. Washington? 1948. 5 p. 59.22 B27

6065 BARTLING, F. W. Wet-mill process. VII. Storage, transportation, distribution. Amer. Miller & Processor 76(10): 26, 32, 36, 39. Oct. 1948. 298.8 Am32

6066 BAUR, E. Ein Beitrag zur dinkelsortenfrage. Württemberg. Wchnbl. f. Landw. 115: 239-240. Sept. 4, 1948. 18 W96

6067 BERNARD, P. Pour avoir du pain il faut payer le blé à son prix réel [France]. Monit. Agr. 1(25): 2. July 4, 1948. 14 M744

6068 BLUM, J. P. L'avenir de la culture du riz en Camargue. Bouches du Rhone Agr. 21(984): 3-4. Aug. 15, 1948. 14 B662

6069 BROSSARD, D. Consumption of American rice. (In Portuguese.) Lav. Arroz. 2(17): 5-6. May 1948. 59.8 L39

6070 COMBREDT, G. Le prix du blé [France]. Monit. Agr. 1(30): 2. Aug. 8, 1948. 14 M744

6071 COOPER, A. W. Results of drying ear corn in Indiana. Washington? 1948. 4 p. 59.22 C78

6072 COSTAZ, M. Tendances nouvelles en matière de stockage des céréales. Défense Agr. de la Beauce et du Perche 45: 217-218. Aug. 10, 1948. 14 D36

6073 COTTON, R. T. Storage losses of grain--the world picture. Amer. Assoc. Cereal Chem. Trans. 6: 100-107. Aug. 1948. 59.9 Am3T

6074 CUENCA, L. Del trigo al pan. Ceres [Valladolid] 13(146): 12. Aug. 1, 1948. 15 C33

6075 DELOYE, M. Situation de la production des céréales en Algérie en 1948. Soc. des Agr. d'Algérie. B. 91: 111-121. Apr. 1948. 24 Sol

6076 DURAN Z., M., and REA C., J. El problema triguero y panadero en Bolivia. Campo [La Paz] 2(12): 51-52. Apr. 1948. 9.1 C15

6077 ECHEGARAY, M. DE. Clasificaciones oficiales del trigo en Canadá y Estados Unidos. Agricultura [Madrid] 17: 295-300. July 1948. 15 Ag84

6078 GAYLORD, R. The 1948 northwest spring wheat crop. Bakers' Helper 90(1127): 61-62. Oct. 2, 1948. 389.8 B17  
Milling and baking quality.

6079 GILMAN, J. C., and SEMENIUK, G. Mold microflora in stored grain and its role in the deterioration process. Amer. Assoc. Cereal Chem. Trans. 6: 108-112. Ref. Aug. 1948. 59.9 Am3T

6080 GLABAU, C. A. Baking characteristics of the 1948 northwestern flour. Bakers Weekly 140(5): 46-49. Nov. 1, 1948. 389.8 B172

6081 GLABAU, C. A. The baking characteristics of the 1948 southwestern flour. Cracker Baker 37(9): 29-32. Sept. 1948. 389.8 C84

6082 GORNY, C. J. Heavy grain movements. Ill. Dept. Agr. Ann. Rpt. 30: 128-148. 1947. 2 IL6R

6083 GRAW, F. P. Types and grades of flour and their uses. Bakers' Helper 90(1127): 80-81. Oct. 2, 1948. 389.8 B17

6084 GRAY, H. E. Protecting Canada's stored grain by chemical controls. Agr. Chem. 3(10): 37-39, 69. Oct. 1948. 381 Ag8

6085 HEATON, T. B., and ROBINSON, G. M. Biological properties of a substance isolated from wheat middlings and of hydroxymethylfurfuraldehyde. Nature [London] 162: 570. Oct. 9, 1948. 472 N21

6086 HILINSKI, F. A., and LOVELL, C. L. Clarification of corn mash; preparation of malt-converted, degerminated mash for fermentation. Chem. Engin. Prog. 44: 783-788. Oct. 1948. 381 C4232

6087 HOPF, L. Wie soll sich der Müller auf die Zukunft einstellen? Mühlen-Ztg. 2: 108-109. Aug. 28, 1948. 298.8 M893  
Germany.

6088 KÜCHLE, F. A. Der betriebsverschleiss und das ersatzteilwesen in der Getreide-mahlmüllerei. Mühlen-Ztg. 2: 112-113. Cont.) Aug. 28, 1948. 298.8 M893  
Germany.

6089 LAUMONT, P. Orientations à donner à la production des céréales en Algérie. Rev. Agr. de l'Afrique du Nord 46: 441-443. Sept. 3, 1948. 80 R326

6090 LOVELAND, A. J. Cribbs for the corn. Washington? U. S. D. A., 1948. 9 p. 1.91 A2L94  
Corn storage situation in Iowa.

6091 LOVELAND, A. J. Licking the grain storage problems. Washington, U. S. D. A., 1948. 2 p. 1.91 A2L94

6092 MCCULLOUGH, W. B. Subterranean storage of grain in Argentina proved satisfactory. Foreign Trade 4: 728-733. Oct. 9, 1948. 286.8 C162

6093 MCINTYRE, D. L. What 1948 flour handling equipment can do for you. Bakers' Helper 90(1127): 63-65. Oct. 2, 1948. 389.8 B17

6094 MADRAS PEOPLES' FOOD COUNCIL. Dangers of decontrol. Madras, 1947. 16 p. 389 M26  
Chiefly grain market decontrol.

6095 MANION, J. P. European bread grain production prospects are more favourable. Foreign Trade 4: 567-568. Sept. 18, 1948. 286.8 C162

6096 MARTÍNEZ, P. Obligación de sembrar trigo? Agr. Lagunero 3(28/29, i. e. 27/28): 14. Aug./Sept. 1948. 8 Ag824

6097 MELINE, P. A. Flour from southwest wheat crop best in years. Bakers' Helper 90(1127): 60. Oct. 2, 1948. 389.8 B17

6098 MILNER, M. How much do we know about sick wheat? Northwest. Miller, Milling Prod. Sect. 236(2): 3a, 21a-22a, 24a. Oct. 12, 1948. 298.8 N81

6099 NADAUD, F. Les agriculteurs et les coopératives de stockage de céréales [France]. Monit. Agr. 1(33): 18. Aug. 29, 1948. 14 M744

6100 NAVARRETE PARDO, C., and GIRALDO H., C. Contribución al estudio de los problemas del trigo en Colombia. Agr. Trop. 4(9): 9-15. Sept. 15, 1948. 26 Ag8

6101 NEW REALMS for King Wheat. Northwest. Miller 236(1): 24, 26-27, 30. Oct. 5, 1948. 298.8 N81  
Essential text of a report on new uses for wheat by-products.

6102 NOLLAT, P. Comment a été calculé le prix du blé. Acclimatation 75: 181. Aug. 28, 1948. 14 Ac2  
France.

6103 OLIVA, A. The proposition of liberalism and price protection and cost of wheat, and the national increase in agricultural production. (In Italian.) Humus 4(2): 18-19. Feb. 1948. 16 H88

6104 OLMI, P. Une politique du riz pourrait nous fournir 400,000 quintaux [France]. Monit. Agr. 1(33): 17. Aug. 29, 1948. 14 M744

6105 ONLEY, T. A. The movement of heat and water in stored grain. Amer. Assoc. Cereal Chem. Trans. 6: 84-100. Ref. Aug. 1948. 59.9 Am3T

6106 OSWALT, R. M., and SCHLEHUBER, A. M. Protein content in varieties of hard red winter wheat, 1946-47. Okla. Agr. Expt. Sta. Mimeog. C. M-173, 3 p. Jan. 1948. 100 Ok4M



- 6107 OXLEY, T. A. Farm-stored grain. *Gt. Brit. Min. Agr. Agriculture* 55: 197-200. Aug. 1948. 10 G79J
- 6108 PEGLION, V. How optimistic forecasts evaporate. (In Italian.) *Gior. di Agr.* 58: 237. Sept. 5, 1948. 16 ItIG  
The grain crop in Italy.
- 6109 PETZOLD, K. Das weltgetreideproblem. *Getreide, Mehl u. Brot* 2: 130-131. Aug. 1948. 298.8 G33
- 6110 PFEUFFER, F. Was hat der müller bei einer feuchten ernte zu beachten? *Mühlen-Ztg.* 2: 99-101. Aug. 14, 1948. 298.8 M893  
Sprouting.
- 6111 PRATT, D. B., JR. Chlorine dioxide in flour. *Food Indus.* 20: 1455, 1563-1564. Oct. 1948. 389.8 F737
- 6112 RAO, M. R. R., MISTRY, S. P., and SREENIVASAYA, M. Studies on industrial enzymes. VI. Growth factors in enzyme-free, moldy bran extracts. *J. Sci. & Indus. Res.* 7B: 116-119. Aug. 1948. 475 J82
- 6113 RILEY, W. P. The pro's and con's of wheat washing. *Northwest. Miller, Milling Prod. Sect.* 236(2): 4a-5a. Oct. 12, 1948. 298.8 N81
- 6114 RITMAN, E. L. The new laboratory for Netherlands Experiment Station for Straw Technology. (In Dutch.) *T.N.O.-Nieuws* 3: 182-186. July 1948. 475 T11
- 6115 RIVES, E. A. Difusión del trigo en la Argentina. *Argentina. Dir. de Inform. P. Misc.* 282, 64 p. 1948. 9 P943
- 6116 SCALLET, B. L. Calculation of water uptake in the acid hydrolysis of starch. *Amer. Assoc. Cereal Chem. Trans.* 6: 137-139. Aug. 1948. 59.9 Am3T
- 6117 SCHAAFFHAUSEN, R. V. Adlay, grain of the future. (In Portuguese.) *Lavoura* 52: 10-13. May/June 1948. 9.2 L39
- 6118 SCHORK, H. Zum beginn des neuen getreide-wirtschaftsjahres. *Mühlen-Ztg.* 2: 107-108. Aug. 28, 1948. 298.8 M893  
Germany.
- 6119 SERPIERI, A. Quota pools and the duty of the farmer. (In Italian.) *Humus* 3(9): 3-4. Sept. 1947. 16 H88  
Grain.
- 6120 SHEPPARD, F. M. Receipts of grain increase. *Ill. Dept. Agr. Ann. Rpt.* 30: 149-152. 1947. 2 IL6R
- 6121 SMITH, L. Practical aspects of the dust problem with particular reference to flour milling. *Milling* 111: 314-316. Oct. 2, 1948. 298.8 M622
- 6122 SNIDER, H. J. Protein in open-pollinated and hybrid corn. *Ill. Agr. Col. Ext. AG1340*, 5 p. Aug. 1947. 275.29 IL62Pag
- 6123 SOBRINO, A. Sobre la revalorización del trigo. *Ceres [Valladolid]* 12(403): 7. June 15, 1948. 15 C33  
Wheat prices.
- 6124 STAEBLY, J. Sonderheiten des hafers—ernte 1947. *Getreide, Mehl u. Brot* 2: 127. Aug. 1948. 298.8 G33
- 6125 THATCHER, M. W. Fourteen minutes from [grain] price disaster. *Co-op Grain Q.* 6(3): 49-51. Aug. 1948. 280.28 C7898  
Price support.
- 6126 TINGLEFF, N. Combines and grain quality. (In Danish.) *Tolvmandsbladet* 20: 188-190. Sept. 1948. 11 T58  
Threshing.
- 6127 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Drying combined rice, by H. A. Kramer. *Washington?* 1948. 17 p. 1.965 F6D84
- 6128 U. S. PRODUCTION AND MARKETING ADMIN. Cuban demand active for rice supplies. *Dallas*, 1948. 1 p. 1.956 A2C89
- 6129 VAN VLACK, C. H. Store corn to keep. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 3(3): 10. Sept. 1948. 275.28 Io94
- 6130 VERTKIN, B. Harvest of great crop reported under way in Russia's Kuban region. *Northwest. Miller* 235(13): 48-49. Sept. 28, 1948. 298.8 N81  
Grain.
- 6131 WALKER, W. R., and others. Grain; ways to save it. *Conn. Agr. Col. Ext. Folder* 18, 8 p. Dec. 1947. 275.29 C76Ex  
R. E. Jones, D. C. Gaylord, and J. L. Buckley, joint authors.
- 6132 WET-MILL process. VI. Drying and revivifying boneblack. *Amer. Miller & Processor* 76(9): 36, 39. Sept. 1948. 298.8 Am32  
Corn.
- 6133 WHISTLER, R. L., BACHRACH, J., and BOWMAN, D. R. Preparation and properties of corn cob holocellulose. *Arch. Biochem.* 19(1): 25-33. Ref. Oct. 1948. 381 Ar2
- 6134 WILLIAMS, B. From beer back to barley. *Farmers Weekly [London]* 29(13): 43. Sept. 24, 1948. 10 F2226  
The brewing process and the value of the by-products.
- 6135 WINTERS, S. R. Old grist mills live on. *Amer. Miller & Processor* 76(10): 24-25. Oct. 1948. 298.8 Am32
- 6136 WOLF, L. Vom wirkungsgrad. *Mühlen-Ztg.* 2: 109-110. Aug. 28, 1948. 298.8 M893  
Mill machinery.
- 6137 YAGER, C. M. Creation of the Millers National Federation. *Mod. Miller & Bakers News* 75(25): 16-17, 19. Sept. 25, 1948. 298.8 M72
- 6138 ZELENY, L. Chemical and nutritive changes in stored grain. *Amer. Assoc. Cereal Chem. Trans.* 6: 112-125. Ref. Aug. 1948. 59.9 Am3T
- 6139 ZITO, F. Grain quotas. (In Italian.) *Humus* 4(2): 25-26. Feb. 1948. 16 H88

## HONEY AND BEESWAX

- 6140 DAS, S., and BOSE, N. M. Physical and chemical properties of Indian honey. *Indian J. Agr. Sci.* 16: 405-410. Ref. Aug. 1946, pub. 1947. 22 Ag831
- 6141 LEHMANN, U. Zum honigpreis. *Schweiz. Bienen Ztg.* 71: 279-281. July 1948. 424.8 Sch9
- 6142 MILUM, V. G. Some factors affecting the color of honey. *J. Econ. Ent.* 41: 495-505. Ref. June 1948. 421 J822  
Effects of storage, light, and temperature.
- 6143 RASMUSSEN, P. The American Honey Institute. *Gleanings Bee Cult.* 76: 609-613. Oct. 1948. 424.8 G47

## LIVESTOCK AND LIVESTOCK PRODUCTS

- 6144 AABERG, H. C. Meeting the meat problem. *Nation's Agr.* 23(9): 7, 19-20. Oct. 1948. 280.82 B89
- 6145 ABADIA MORALES, J. Se aconseja sacrificar el ganado a los dos años. *Rev. Agr. y Ganad.* 10(106): 19-20. June/July 1948. 9.4 R327  
Beef cattle in Colombia.
- 6146 ÁLVAREZ CALDERÓN, R. Mejoramiento y desarrollo de la producción ovina. *Lanares y Lanas* 3 (10/11): 21-24. Jan./June 1948. 45.8 L22  
Peru.
- 6147 AMAT, A. E. DE. Nuestra realidad pecuaria en el Departamento de Puno y la escasez de carne de consumo en la capital. *Lanares y Lanas* 3(10/11): 45. Jan./June 1948. 45.8 L22  
Peru.
- 6148 AMERICAN MEAT INSTITUTE. Proceedings, 43rd annual meeting. *Meat* 29: 407-469. Oct. 1948. 286.85 M464  
Also published in *Natl. Provisioner* 119(14): 102-267. Oct. 2, 1948. 286.85 N21
- 6149 AMSCHLER, W. Wege zur verbesserung der tierproduktion in Österreich. *Landw. Genossenschaftsbl. f. Niederösterreich* 45(8): 12-13. Aug. 1, 1948. 280.28 L23
- 6150 BABCOCK, H. E. We need to expand animal agriculture that made America free. *Natl. Live Stock Prod.* 27(2): 6. Nov. 1948. 280.38 N21
- 6151 BLIN, H. Une industrie alsacienne prospère: les foies gras. *Monit. Agr.* 1(33): 20. Aug. 29, 1948. 14 M744
- 6152 BOUCHER, J. Le problème de la viande est-il un faux problème? *Mouton* 2: 111-112. Dec. 10, 1947. 45.8 M86
- 6153 BRAUSE, L. A., and MARTIRENA, O. Exponiendo grandes valores zootécnicos. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 230: 4-8. Aug. 5, 1948. 9.9 G15B
- 6154 BREIREM, K. We ought to increase our sheep industry. (In Norwegian.) *Norsk Landbr.* 14: 125-126. Mar. 19, 1948. 11 N8122
- 6155 BURMEISTER, C. A. Just how much meat can we produce? *West. Live Stock* 34(2): 190. Sept. 1948. 49 W523



- 6156 CALIFORNIA and western livestock guide. Annual handbook and directory of the western livestock industry. Calif. Wool Grower 24(37, sect. 2), 104 p. Sept. 14, 1948. 45.8 C12
- 6157 CARPENTER, D. Calf salvage. Worcester-shire Agr. Chron. 16: 301, 303, 305, 307. Aug. 1948. 10 W892
- 6158 CONQUEST, V. A. The future for animal fats. Butchers' Advocate 124(13): 11, 20-21. Sept. 29, 1948. 286.85 B97
- Also in Meat 29: 410-412. Oct. 1948. 286.85 M464
- 6159 CONWAY, H. M. Fall supplies of meat are largely at expense of the winter season. Natl. Live Stock Prod. 27(2): 8. Nov. 1948. 280.38 N21
- 6160 CONWAY, H. M. What's ahead for cattle. Mont. Stockgrower 20(9): 40. Sept. 15, 1948. 49 M76
- 6161 COUCH, V. M. Domestic rabbit meat demand. Calif. Rabbit News 9(6): 9. Sept. 1948. 40.28 C12
- 6162 COUCH, V. M. Importance of the rabbit industry. Amer. Rabbit J. 18: 85. July 1948. 40.28 Am3
- 6163 COURTILS, A. DES. L'élevage, rouage essentiel de l'économie française. Mouton 3: 37-38. Apr. 10, 1948. 45.8 M86
- 6164 DICKHUT, A. C. Rabbits unlimited. Rabbit Raiser 3(10): 11, 33. Aug. 1948. 40.28 R11
- Growth of the rabbit raising industry.
- 6165 DORAN, L. S. Stocker and feeder developments. Cent. Co-op. Shipper 28(9): 6-7, 15. Sept. 1948. 280.38 C78
- 6166 FUR TRADE JOURNAL OF CANADA. Who's who in furs. 1948-49 ed. Toronto, 1948. 116 p. 225 W629
- 6167 GAY, S. B. The hide situation. Butchers' Advocate 124(17): 10-11, 17. Oct. 27, 1948. 286.85 B97
- 6168 GENUNG, A. B. The money's in meat. Successful Farming 46(10): 23, 85-87. Oct. 1948. 6 Su12
- Livestock and meat situation.
- 6169 GIRARDON, C. A. The livestock situation in East Africa. (In Italian.) Affrica 3: 202. Aug. 15, 1948. 280.8 Af2
- 6170 GLASS, I. R. The hide situation. Meat 29: 427-430. Oct. 1948. 286.85 M464
- 6171 GOMES JUNIOR, F. S. The production of "baby beef." (In Portuguese.) Colheitas e Mercados 4(3/6): 30-32. Mar./June 1948. 255.3 Sa652
- Brazil.
- 6172 HAND, J. A. Manitoulin [Island, Ontario] leads the way. Farmer's Mag. 45(10): 9, 62, 63. Oct. 1948. 7 C165
- Chiefly the sheep industry.
- 6173 HENDERSON, G. Bright future; horse picture looks good for those who want top animals. West. Live-stock J. 26(54): 145-147. Sept. 15, 1948. 6 F2278
- 6174 HERRLEIN, H. G. The guinea pig situation. Small Stock Mag. 32(9): 24-25. Sept. 1948. 48.8 P442
- 6175 HOLZER, K. Das einwecken. III. Das fleisch. Salzburg. Bauer 3(34): 5. Aug. 19, 1948. 19 Sa3
- 6176 HOULDSON, E. Brer rabbit's promising future. Calif. Rabbit News 9(6): 11. Sept. 1948. 40.28 C12
- 6177 JARL, F. Future of beef cattle in Sweden. (In Swedish.) Ladugården 1948: 57-58. Apr. 1948. 44.8 L12
- 6178 JOBIM, A. The fields of Puciarf. (In Portuguese.) Assoc. Com. do Amazonas. B. 7(84): 29-31. July 1948. 286.9 As7B
- Cattle industry.
- 6179 JOHNSON, C. F. Many find it difficult to be human. Amer. Rabbit J. 18: 99-100. Aug. 1948. 40.28 Am3
- Cooperation.
- 6180 JONES, J. M. The "prime" facts on the domestic sheep industry. Meat 29: 439-441. Oct. 1948. 286.85 M464
- 6181 KOBOLD, MRS. E. H. Let's assure the supply [of rabbit meat]. Small Stock Mag. 32(10): 12. Oct. 1948. 48.8 P442
- 6182 KUBELKA, V. The story of leather in the history of European peoples. II. Ancient Greece and Rome. (In Czech.) Tech. Hlidka Koželužká 23: 219-223. (Cont.) July 15, 1948. 303.8 T22
- 6183 MCCOLLOCH, C. L. Feeder livestock. Dakota Farmer 68(17): 28-29. Sept. 4, 1948. 6 D14
- Sheep and cattle situation.

- 6184 MAGUIRE, E. H. Sheep-raising an important phase of Chilean agricultural economy. Foreign Trade 4: 768-769. Oct. 16, 1948. 286.8 C162
- 6185 MASNER, L. The German leather industry (BIOS and FIAT reports). (In Czech.) Tech. Hlidka Koželužká 23: 183-207. (Cont.) July 15, 1948. 303.8 T22
- 6186 MAURY, L. Les difficultés de la nationalisation de l'élevage en Yougoslavie. Monit. Agr. 1(24): 17. June 27, 1948. 14 M744
- 6187 MEZGER, H. Fur for profit. Natl. Fur News 20(8): 15, 24-26; Sept. 1948. 412.628 R59
- Quality in mink furs.
- Also in Canad. Silver Fox & Fur 14(9): 8-9. Sept. 1948. 412.62 C163
- 6188 MILLER, R. C. For the beginner—caution, for the experienced—keep going. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 63(10): 15, 135. Oct. 1948. 6 P945K
- Sheep industry in Kentucky.
- 6189 NEUNTEUFL, J. Fleischversorgung im 17. Jahrhundert. Österr. Fleischbauer- u. Fleischschelcher-Ztg. 1948(36): 5. Sept. 4, 1948. 50.8 Os7
- 6190 NEW ZEALAND MEAT PRODUCERS BD. Annual report and statement of accounts, 26th, 1947/1948, 60 p. Wellington, 1948. 50.9 N48
- 6191 OLSEN, L. Livestock outlook and benefits. U & I Cult. 8(2): 16. Sept. 1948. 66.8 V12
- 6192 PASCOE, J. E. Cattle feeders have confidence. Family Herald & Weekly Star 79(42): 4. Oct. 20, 1948. 7 F21
- 6193 PHILLIPS, G. P. Australian pig industry. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 1(3): 13-16. July 1948. 281.9 Au73
- 6194 PIZZI DE PORRAS, E. Ganadería, provída fuente futura de riqueza. Cuba. Min. de Agr. Rev. (ser. 5) 31(1): 9-16. Jan./June 1948. 8 Ag88Re
- 6195 PRENTICE, A. C. The future of fur farming in North America. Canad. Silver Fox & Fur 14(9): 22-26. Sept. 1948. 412.62 C163
- 6196 REEVES, F. Cattle feeders prepare to produce cheaper beef. Abundant feed supplies will cut cost of production—Cornbelt buyers exercising caution—likely to lay in good numbers. Amer. Hereford J. 39(12): 18. Oct. 15, 1948. 43.8 Am32
- 6197 ROGERS, A. The consumer's stake in the West. Meat 29: 436-437. Oct. 1948. 286.85 M464
- The cattle industry.
- Also in Butchers' Advocate 121(18): 9-11. Nov. 3, 1948. 286.85 B97
- 6198 ROSE, A. L. Problems confronting animal industry in northern Australia. Austral. Vet. J. 24: 204-212. Aug. 1948. 41.8 Au72
- Discussion, p. 212-220.
- 6199 SHELDON, W. B. Basic facts of fox and mink industry shown by authoritative charts. Black Fox Mag. 32(5): 40-42. Sept. 1948. 410 B56
- 6200 SMITH, A. A. The cattle situation and outlook. Meat 29: 430-432. Oct. 1948. 286.85 M464
- 6201 SPIKER, R. L. Eventually the frying pan. Small Stock Mag. 32(10): 56-57. Oct. 1948. 48.8 P442
- Rabbit meat.
- 6202 THOMSON, L. B. Australia's sheep-wheat economy. Country Guide 67(9): 10, 26-27. Sept. 1948. 7 G76
- 6203 U. S. EASTERN REGIONAL RESEARCH LABORATORY. Publications on hides, skins, tanning materials, tanning processes, and leather. U. S. Bur. Agr. and Indus. Chem. AIC-203, 13 p. Sept. 1948. 1.932 A2Ag82
- 6204 VILLARES, J. B. Possibility of baby-beef production in São Paulo. (In Portuguese.) Rev. Rur. Bras. 28(332): 12-18. Ref. May 1948. 9.2 B733
- 6205 WHAT meat shortage? Supplies will improve in 1949, but not enough to match the U.S. appetite. Fortune 38(4): 83-85. Oct. 1948. 110 F772
- 6206 WILSON, J. L. Meat from dairy herds provides third of beef. Natl. Live Stock Prod. 27(2): 19. Nov. 1948. 280.38 N21

#### Analysis and Composition

- 6207 BENNETT, O. L. Report on soybean flour in sausage and similar products. Assoc. Off. Agr. Chem. J. 31: 513-517. Aug. 15, 1948. 381 As7



- 6208 BOWES, J. H., and KENTEN, R. H. A note on the calculation of hide substance from nitrogen determinations. Soc. Leather Trades' Chem. J. 32: 308-310. Sept. 1948. 303.9 So12
- 6209 LINDBERG, J., PHILIP, B., and GRALEN, N. Occurrence of thin membranes in the structure of wool. Nature [London] 162: 458-459. Sept. 18, 1948. 472 N21
- 6210 MEHURIN, R. M. Report on meat and meat products. Assoc. Off. Agr. Chem. J. 31: 512-513. Aug. 15, 1948. 381 As7
- 6211 MITTON, R. G. Tensile properties and their variability in chrome-tanned calfskins. Soc. Leather Trades' Chem. J. 32: 310-323. Sept. 1948. 303.9 So12
- 6212 NEWBURGER, S. H. The analysis of lanolin-hydrocarbon mixtures. Assoc. Off. Agr. Chem. J. 31: 670-673. Aug. 15, 1948. 381 As7
- 6213 POE, C. F., and LANE, F. A. Combination of catalysts in the determination of nitrogen. III. Meat products. Assoc. Off. Agr. Chem. J. 31: 646-652. Ref. Aug. 15, 1948. 381 As7
- 6214 RAO, A. J. Water absorption & anisotropic swelling of horn keratin. J. Sci. & Indus. Res. 7B: 124-128. Aug. 1948. 475 J82  
Especially of buffaloes.
- 6215 WILDER, O. H. M., HANKE, M. M., and DARROW, M. M. The chemical composition of meat scraps and tankage. (Abs.) Poultry Sci. 27: 686. Sept. 1948. 47.8 Am33P
- Consumption and Utilization
- 6216 MARTEL, H. Les sous-produits de l'abat-tage des moutons. Mouton 3: 11. Jan. 10, 1948. 45.8 M86
- Distribution, Marketing, and Transportation
- 6217 BAKER, F. H. Meat and self-service. Co-op. Rev. 22: 160-161. Aug. 1948. 280.28 C7823
- 6218 BODIN-JOYEUX, R. Comment valoriser les dépouilles de nos moutons. Mouton 3: 39-40. Apr. 10, 1948. 45.8 M86
- 6219 CHARTON, A. Vices rédhibitoires. Garantie en cas de mort de l'animal. Rec. de Méd. Vét. 124: 416-419. Sept. 1948. 41.8 R24
- 6220 CHRISTOPHERSON, R. Actuales perspectivas del mercado de carnes en Suecia. Uruguay. Min. de Ganad. y Agr. B. Inform. 230: 3, 12. Aug. 5, 1948. 9.9 G15B
- 6221 COOK, O. M. Time to act on marketing Karakul products. Fur Farming J. 2(2): 6, 11. Sept./Oct. 1948. 45.8 K142  
Pelts and hair.
- 6222 DICKIE, J. W. Self-service meats today and tomorrow. Kans. City Grocer 35(9): 15. Sept. 1948. 286.28 K13
- 6223 ELLIS, F. E. Co-op. marketing on Manitoulin. Family Herald & Weekly Star 79(36): 3, 13. Sept. 8, 1948. 7 F21  
Turkeys, lambs and cattle.
- 6224 FRENCH, H. W. Buyer in control with high receipts. Amer. Cattle Prod. 30(5): 12, 14, 16. Oct. 1948. 49 P94
- 6225 FRENCH, H. W. Plenty of puzzles in market situation. Amer. Cattle Prod. 30(4): 13. Sept. 1948. 49 P94
- 6226 GRANDPRE, P. Le marché du porc. II-III. Unite Paysanne 3(147): 2; (148): 2. Aug. 28-Sept. 4, 1948. 14 Un3  
France.
- 6227 GROS, M. Le marché des cuirs et peaux en Algérie après trois mois de liberté. Mouton 2: 102. Oct. 10, 1947. 45.8 M86
- 6228 HANSON, B. A. Purebred salesmanship. Shorthorn World 33(10): 133, 175-178. Aug. 10, 1948. 43.8 Sh8  
Selling Polled Shorthorns.
- 6229 HARDENBERGH, W., HAUSE, D. B., and MILTON, J. The public and meat. Meat 29: 450-454. Oct. 1948. 286.85 M464
- 6230 KAMM, A. J. The problems of selling. Shorthorn World 33(10): 87, 196. Aug. 10, 1948. 43.8 Sh8
- 6231 MCDERMOTT, J. E. Put this in your hat: fairness. Recognize the customer as a royal guest. Small Stock Mag. 32(10): 24. Oct. 1948. 48.8 P442

- 6232 MAYER, O. G., JR. What management in the meat packing industry expects of its purchasing department. Meat 29: 461-464. Oct. 1948. 286.85 M464
- 6233 MITCHELL, P. Adopt merit system in marketing hogs at some terminals. Natl. Live Stock Prod. 27(1): 12. Oct. 1948. 280.38 N21
- 6234 MITCHELL, P. Merit basis adopted for selling hogs. Amer. Soc. Farm Mgrs. & Rur. Appraisers. J. 12: 192-195. Oct. 1948. 281.8 Am32
- 6235 MOSER, L. Stockmen out West now have own central markets at six points. Natl. Live Stock Prod. 27(2): 10. Nov. 1948. 280.38 N21
- 6236 NISBET, J. C. Selling to get into high gear. II. New England Homestead 121(18): 8. Sept. 25, 1948. 6 N442  
Selling bull calves.
- 6237 OLSON, A. Marketing of cattle free from brucellosis. (In Swedish.) Ladugården 1947: 92-93. Sept. 1947. 44.8 L12  
Regulations.
- 6238 OTTE, E. A. All publicity is not good publicity. Amer. Fur Breeder 21(3): 36, 40, 42, 44. Sept. 1948. 410 Am33
- 6239 PEMBERTON, R. L. Hog buying system challenged. Idaho Farmer 66: 761. Oct. 21, 1948. 6 G282
- 6240 PEMBERTON, R. L. Swine type and market practices. Chester White J. 38(10): 6, 33-35. Oct. 1948. 46.8 W582
- 6241 PICKELL, M. W. Well bought is half sold. Breeder's Gaz. 113(10): 16, 31. Oct. 1948. 49 B74
- 6242 SAINT-OLLIER. Organisation de la vente des peaux de lapins. Rustica 21: 661-663. Sept. 19, 1948. 14 R92
- 6243 SAMPIER, J. How Jewish holidays affect live markets. Natl. Live Stock Prod. 27(2): 20. Nov. 1948. 280.38 N21
- 6244 SHAFER, W. S. A meat packer surveys self-service meat developments. Meat 29: 421-425. Oct. 1948. 286.85 M464
- 6245 SIMMONS, W. M., BRUNK, M. E., and DARRAH, L. B. Changes in purchases of meat in Syracuse. N. Y. Agr. Col. Farm Econ. 163: 4219-4220. Sept. 1948. 280.8 C812
- 6246 U. S. PRODUCTION AND MARKETING ADMIN. Livestock market news statistics and related data, 1947. U. S. Prod. and Mktg. Admin. CS-29, 95 p. July 1948. 1.9422 A8C732
- Grading, Inspection, Standardization, and Quality
- 6247 ANDERSON, A. W. Grading of fat cattle. Westralian Farmers' Co-op. Gaz. 12: 215, 217-218. Oct. 1947. 280.28 W522
- 6248 ARMOUR AND COMPANY. LIVESTOCK BUR. Common causes of condemnation. Handbook for livestock buyers prepared by Jerry Sotola. Chicago, 1948. 19 p. 41 Ar53
- 6249 BAKER, E. T. Adventures in meat inspection. Vet. Med. 43: 321. Aug. 1948. 41.8 M69  
Difficulties in obtaining horsemeat to feed dog.
- 6250 MCCLINTOCK, L. D. Shedding-out spots on mink pelts. Amer. Fur Breeder 21(3): 68-69. Sept. 1948. 410 Am33
- 6251 POSTMA, C. Inspection of meat, milk and poultry in Denmark. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 622-637. Aug. 1/15, 1948. 41.8 T431
- 6252 SANZ EGANA, C. El bacon y sus clases. Ganaderia [Madrid] 6: 227-229. May 1948. 49 G15
- 6253 SHIER, F. L. Grading standards for export lambs. West. Austral. Dept. Agr. J. (ser. 2) 25: 103-110. June 1948. 23 W521
- 6254 TETERNIK, D. M., and KHOLEBENKOV, D. S. Additions and changes in the present regulations on veterinary sanitary inspection of slaughter animals and veterinary sanitary examination of meat and meat products. (In Russian.) Veterinariia 25(5): 25-28. May 1948. 41.8 V6426
- 6255 TWEED, W. The modern abattoir and meat inspection. Roy. Sanit. Inst. J. 68: 494-498. Sept. 1948. 449.9 R812  
Discussion, p. 498-502.
- 6256 WELCH, H. Health inspections at shipping. Mont. Stockgrower 20(9): 48-49. Sept. 15, 1948. 49 M76  
Livestock.



Packing and Packaging

- 6257 BONINI, J. Improving profits through meat packaging. Meat 29: 426-427. Oct. 1948. 286.85 M464  
Also in Butchers' Advocate 124(14): 8-9, 22. Oct. 6, 1948. 286.85 B97
- 6258 BRADY, D. E. Good packaging prolongs fresh life of frozen meats. Res. and Farming. [N. C. Sta.] Prog. Rpt. 7(1): 8-9. July 1948. 100 N81R
- 6259 DATE, A. Sausages or dollars? Rur. Bank N. S. Wales. Farm Front 6: 106-109. July 1948. 281.9 R883  
Sausage casings.

Prices, Price Control, and Rationing

- 6260 BARONA, G. La voz de los ganaderos: Ya bajó y quedó libre la carne! Ganadería [Madrid] 6: 312-313. June 1948. 49 G15
- 6261 BECKMAN, H. J. Pork prices; a backward glance may help interpret future swine values. West. Livestock J. 26(54): 117, 118. Sept. 15, 1948. 6 F2278
- 6262 BERKSHIRE, H. Why high meat prices. Amer. Hereford J. 39(10): 74 H, 111. Sept. 15, 1948. 43.8 Am32
- 6263 CLARK, M. The trend of meat prices. Utah Farmer 68(4): 14. Sept. 25, 1948. 6 D45
- 6264 CONWAY, H. M. 2-way competition supporting fall prices of all live stock. Natl. Live Stock Prod. 27(1): 8. Oct. 1948. 280.28 N21
- 6265 GUSLER, G. Feeders [cattle] face price hazards. Nebr. Farmer 90(17): 10, 35. Sept. 4, 1948. 6 N27  
Also in Farmer [St. Paul], Gen. Ed. 66(17): 9, 41. Sept. 4, 1948. 6 F2211
- 6266 SUMMERS, T. S., and BICE, S. A. What about meat prices? Colo. Rancher & Farmer 2(16): 5. Aug. 28, 1948. 6 C714

Processing and Storage

- 6267 BAILEY, A. E. Kahn employs new apparatus and method to turn out animal fat of bland type. Natl. Provisioner 119(18): 10-11, 23. Oct. 30, 1948. 286.85 N21
- 6268 COLMAN, J. H. Properly worked—an interesting fur—coat in marmot. Brit. Fur Trade 30: 350. Sept. 1948. 412.628 B77
- 6269 CORNING, V. Slaughtering, custom work and market bring profits to Oregon plant. West. Locker 9(11): 4-5, 12. Sept. 1948. 389.8 P112
- 6270 COX, W. R. A study of leather pasting. I. Amer. Leather Chem. Assoc. J. 43: 561-567. Ref. Sept. 1948. 303.9 Am32
- 6271 FRANK stripping and packaging; a study by Meat Magazine. Meat 29: 298-300, 302, 369. Oct. 1948. 286.85 M464
- 6272 GASTELLU, C., and JULLIEN, I. Séchage aux rayons infra-rouges. Assoc. Franç. des Chim. des Indus. du Cuir B. 10: 128-138. Aug. 1948. 303.8 B89
- 6273 HENSCHEN, H. P. Packinghouse construction: what are the trends? Meat 29: 416-417. Oct. 1948. 286.85 M464
- 6274 IZQUIERDO, M. E. Los curtidos de pieles. Cooperación 7(77): 16-17. (To be cont.) July 1948. 280.28 C7875
- 6275 KENNEY, C. H. The principles of casing handling. Canad. Food Indus. 19(10): 18-19, 21-22. Oct. 1948. 286.83 C166
- 6276 KREMEN, S. S., and LOLLAR, R. M. Studies of vegetable tannage. VI. Amer. Leather Chem. Assoc. J. 43: 542-558. Ref. Sept. 1948. 303.9 Am32  
Discussion, p. 558-561.
- 6277 KRITZINGER, C. C., and THEIS, E. R. Studies in chrome tannage. XVI. Amer. Leather Chem. Assoc. J. 43: 515-542. Ref. Sept. 1948. 303.9 Am32
- 6278 MCCLINTOCK, L. D. Plaques dénudées sur les pelleteries de visons. Pelleteries du Québec 19(10): 9. Aug. 1948. 412.628 P36  
Also in English, p. 12.
- 6279 NATTRASS, E. F. Leather. Soc. Chem. Indus. Rpts. Prog. Appl. Chem. 32: 324-334. Ref. 1947. 382 M31R  
Chiefly on tanning.
- 6280 NIVEN, C. F., JR. Spoilage avoidance and quality control. Meat 29: 414-415. Oct. 1948. 286.85 M464

- 6281 NORRIS, R. A. What's ahead in meat packing? Meat 29: 457-458. Oct. 1948. 286.85 M464  
Also in Butchers' Advocate 124(17): 8-9, 17. Oct. 27, 1948. 286.85 B97
- 6282 PLATT, H. Proper aging of meat. West. Locker 9(11): 13. Sept. 1948. 389.8 P112
- 6283 ROBERTS, B. G. Caring for pelts. Dakota Farmer 68(18): 16. Sept. 18, 1948. 6 D14
- 6284 ROHRMULLER, R. Einiges über veredlung der pelze [Coypus]. Deut. Pelztierzucht. 22: 158-159. Sept. 15, 1948. 412.629 D48
- 6285 SAGOSCHEN, J. A. Problèmes d'actualité pour la technique de la tannerie. Rev. Tech. des Indus. du Cuir 40: 137-140. (Cont.) July 1948. 303.8 C89
- 6286 SPARAPANI, G. C. Panorama of the Emilian pork butchering industry. (In Italian.) Alimenti 4: 135-138. July/Aug. 1948. 389.8 AL44
- 6287 STEFFEN, A. J. Handling the packinghouse effluent problem. Meat 29: 412-414. Oct. 1948. 286.85 M464
- 6288 WALLACE, L. H. Canned meats are good. Pract. Home Econ. 26: 616, 630, 632. Oct. 1948. 321.8 H752

Statistics

- 6289 BRUETT, T. A. Accounting and taxes and the fur farmer. Amer. Fur Breeder 21(3): 6, 8, 10, 14. Sept. 1948. 410 Am33
- 6290 MONTY, T. J. Dairy animal population in Greece decreased during the past year. Foreign Trade 4: 666-668. Oct. 2, 1948. 286.8 C162
- 6291 NORWAY. STATISTISK SENTRALBYRÅ. Élevage d'animaux à fourrure au 1<sup>er</sup> Septembre 1946. Oslo, 1948. 66 p. (Norges Offisielle Statistikk X. 151) 412.629 N83  
English and French summaries.

OILS AND OILSEEDS

- 6292 ARTHUR, J. C., JR., MASON, T. W., JR., and ADAMS, M. E. Peanut protein paper coatings. Amer. Oil Chem. Soc. J. 25: 338-340. Ref. Sept. 1948. 307.8 J82
- 6293 AYERS, A. L., and DOOLEY, J. J. Laboratory extraction of cottonseed with various petroleum hydrocarbons. Amer. Oil Chem. Soc. J. 25: 372-379. Oct. 1948. 307.8 J82
- 6294 BALIGA, M. N., and HILDITCH, T. P. The component acids of rape seed oil. Soc. Chem. Indus. J. 67: 258-261. Ref. June 1948. 382 M31  
Discussion, p. 261-262.
- 6295 BANZON, J. A photochemical reaction of some vegetable oils with chlorine gas. Philippine Agr. 31: 279-288. Apr./June 1948. 25 P542
- 6296 BANZON, J., and MARAMBA, F. K., JR. Studies on a photochemical reaction of coconut oil with chlorine gas. Philippine Agr. 31: 289-297. Apr./June 1948. 25 P542
- 6297 BECKEL, A. C. Alcoholic extraction of oil from soybeans. U. S. Bur. Agr. and Indus. Chem. AIC-196, 4 p. July 21, 1948. 1.932 A2Ag82
- 6298 BEDOUKIAN, P. Z. Progress in essential oils and perfumery products. Amer. Perfumer & Essential Oil Rev. 52: 213-217. Ref. Sept. 1948. 308.8 Am3
- 6299 BEGIN, P. E. La margarine n'est pas nécessaire. Québec Lait. 7(9): 22, 24. Sept. 1948. 44.8 Q3
- 6300 BENING. Warnung vor übertriebener sojapropaganda. Neue Mitt. f. die Landw. 3: 180. June 21, 1948. 18 N39
- 6301 BLACK, D. L. New farm program may raise parity price of cottonseed 20 percent. Cotton Gin & Oil Mill Press 49(21): 28-29. Oct. 16, 1948. 304.8 C822
- 6302 BREKKE, O.-L. Fractionation of soybean oil by liquid-liquid extraction. U. S. Bur. Agr. and Indus. Chem. AIC-194, 5 p. July 21, 1948. 1.932 A2Ag82
- 6303 BUFFIÈRE, and LACOURLIE. Une belle réalisation coopérative. L'huilerie agricole de Nesle (Somme). Génie Rural 41: 260-264. Sept. 1948. 58.8 Au8
- 6304 BURMANN, W. Linseed in Britain. Oil & Colour Trades J. 114: 670-672. Sept. 17, 1948. 306.8 O152
- 6305 BUZI, C. C. The use of palm discs. (In Italian.) Olivicoltura 3(7): 11-13. July 1948. 80 OL42  
In olive oil extraction.



- 6306 CERIGHELLI, R. Le problème des corps gras & l'agriculture coloniale. Marseille. Inst. Colon. Cahiers Colon., n. s., 1947(2): 9-17. Ref. Nov. 1947. 286.8 M35
- 6307 CHATFIELD, H. W. Recent developments in drying oils. *Paint* 18: 155-158. May 1948. 306.8 P162
- 6308 COWAN, J. C. Developments in soybean research at the Northern Regional Research Laboratory. U. S. Bur. Agr. and Indus. Chem. AIC-200, 5 p. July 21, 1948. 1.932 A2Ag82
- 6309 CYSSAU, R. Le beurre d'arachides. *Oléagineux* 3: 464-467. Oct. 1948. 77.8 OL2  
English summary, p. 499.
- 6310 DANIELS, T. L. The flaxseed situation and how the drop in meal prices brought on a market crisis. *Paint, Oil & Chem. Rev.* 3(18): 9. Sept. 2, 1948. 306.8 P16
- 6311 DELL'ANGELO, G. Olive oil industry in 1947. (In Italian.) *Olivicoltura* 3(7): 8-10. July 1948. 80 OL42 Italy.
- 6312 DESMARAIS, S. Rapport de l'huilerie française. *Oléagineux* 3: 451-452. Oct. 1948. 77.8 OL2
- 6313 DOUGHTIE, R. T., JR. Sampling for mill control. *Oil Mill Gaz.* 53(4): 36-38. Oct. 1948. 307.8 Oi53
- 6314 DUTTON, H. J. Edible soybean oil. U. S. Bur. Agr. and Indus. Chem. AIC-198, 4 p. July 21, 1948. 1.932 A2Ag82
- 6315 FARR, H. Fractionation of vegetable oils. *Oil & Colour Trades J.* 114: 729-730, 732. Sept. 24, 1948. 306.8 Oi52  
Discussion, p. 732, 734, 736.
- 6316 FAURE, J. C. A. L'avenir des matières grasses dans le monde. *Oléagineux* 3: 453-457. Oct. 1948. 77.8 OL2  
English summary, p. 499.
- 6317 FIFER, R. Fifer reviews oleomargarine situation explaining flagrant claims and frauds. *Creamery J.* 59(11): 16. Nov. 1948. 44.8 C86
- 6318 FINCH, H. Behavior of cocoa butter heated to various temperatures. (In Italian.) *Gior. dei Pasticieri e Confettieri* 56: 213, 215. July 1948. 389.8 G432
- 6319 FINZI, E. Continuing on the theme: soybeans. (In Italian.) *Alimenti* 4: 147. July/Aug. 1948. 389.8 AL44
- 6320 FRIEND, W. Z. Corrosion tests in organic sulfations and sulfonations. *Amer. Oil Chem. Soc. J.* 25: 353-358. Oct. 1948. 307.8 J82  
Includes sulfated oils.
- 6321 GASTROCK, E. A., and D'AQUIN, E. L. Continuous solvent extraction of cottonseed and peanuts at the Southern Regional Research Laboratory. *Oil Mill Gaz.* 53(4): 13-21. Ref. Oct. 1948. 307.8 Oi53
- 6322 GILLAM, N. W. The later stages of oxidation of fatty oils. *Austral. Chem. Inst. J. & Proc.* 15: 231-235. July 1948. 385 Au72
- 6323 GOSS, W. H. Soybean oil in food products. *Amer. Miller & Processor* 76(10): 20. Oct. 1948. 298.8 Am32
- 6324 GRAFFLIN, A. L., and GREEN, D. E. Studies on the cyclophorase system. II. The complete oxidation of fatty acids. *J. Biol. Chem.* 176(1): 95-115. Ref. Oct. 1948. 381 J824
- 6325 GRINDLEY, D. N. Investigations of some new Sudan seed oils. *Soc. Chem. Indus. J.* 67: 230-231. June 1948. 382 M31
- 6326 GUENTHER, E. Citrus oils and their methods of extraction. II. *Food Packer* 29(11): 31-33. Oct. 1948. 286.83 C165
- 6327 GUERRA FILHO, D. Unexplored riches—the sunflower. (In Portuguese.) *Lavoura* 52: 56. May/June 1948. 9.2 L39
- 6328 GUPTA, A. C., and CHATTERJI, N. G. The inhibition of the oxidation of linseed oil. *Paint* 18: 171-174. May 1948. 306.8 P162
- 6329 GUSTAFSSON, R. H. A pilot plant for solvent extraction studies. U. S. Bur. Agr. and Indus. Chem. AIC-195, 5 p. July 21, 1948. 1.932 A2Ag82  
Solvent extraction of soybeans.
- 6330 HARDY, E. Home-produced drying oils. 1. Vegetable oils. *Paint* 18: 166-168. May 1948. 306.8 P162
- 6331 HIDALGO, L. La red de almacenes reguladores de aceite. *Surco [Madrid]* 7(76): 8-12. June 1948. 15 Su7
- 6332 HIGGS, C. Jungle venture in co-op farming. *Co-op Grain Q.* 6(3): 14-21. Aug. 1948. 59.8 G763  
East African Groundnut Scheme.
- 6333 HILDITCH, T. P. Potential sources of drying oils. *Oil & Colour Trades J.* 114: 790-791. Oct. 1, 1948. 306.8 Oi52  
Plant sources.
- 6334 HUISKING, J. A. Essential oil outlook. *Soap & Sanit. Chem.* 24(9): 47. Sept. 1948. 307.8 So12
- 6335 IGOLEN, G. A study of the oil of Narcissus. *Amer. Perfumer & Essential Oil Rev.* 52: 327. Oct. 1948. 308.8 Am3
- 6336 KEHREN, L. Utilisation d'un test spectrophotométrique de la vitamine A pour la détection de l'activité antioxygène des tourteaux. *Oléagineux* 3: 387-389. Ref. Aug./Sept. 1948. 77.8 OL2  
English summary, p. 425.
- 6337 KLUGAR, J. The manufacture and the properties of leather oils and greases. (In Czech.) *Tech. Hlídka Koželužká* 23: 181-183. July 15, 1948. 303.8 T22  
English summary.
- 6338 LEWIS, A. J. Paints from soybean oil. U. S. Bur. Agr. and Indus. Chem. AIC-199, 3 p. July 21, 1948. 1.932 A2Ag82
- 6339 LIPS, H. J., GRACE, N. H., and HAMILTON, E. M. Canadian erucic acid oils. II. Edible use of rape and mustard seed oils. *Canad. J. Res. Sect. F, Technol.* 26: 360-365. Ref. Sept. 1948. 470 C16F
- 6340 LIU, H. The tung oil industry. *China. Min. Agr. and Forestry. Misc. P.* 1: 52-55. Apr. 1948. 22.5 C4412M
- 6341 LONG, W. E. Insulating value of cottonseed hulls. *Refriger. Engin.* 56: 327-329. Oct. 1948. 295.9 Am32J
- 6342 LUND, C. E. U.S. position in the fats and oils trade. *Northwest. Miller* 235(11): 45, 49. Sept. 14, 1948. 298.8 N81
- 6343 MCFARLANE, W. D. The Canadian oil seeds processing industry. *Agr. Inst. Rev.* 3: 345-354. Sept. 1948. 7 Ag8
- 6344 MCINERNEY, C. W. The peanut industry in the United States. *Peanut J. and Nut World* 27(12): 31, 33. Oct. 1948. 77.8 P313
- 6345 MENSIER, P. H. La production mondiale de corps gras. *Oléagineux* 3: 468-469. Oct. 1948. 77.8 OL2
- 6346 MILNER, R. T. Composition and its effects on the price of soybeans and soybean oil. U. S. Bur. Agr. and Indus. Chem. AIC-201, 6 p. July 21, 1948. 1.932 A2Ag82
- 6347 MILNER, R. T. Soybean research at the Northern Regional Research Laboratory. *Grain & Feed Rev.* 38(2): 12. Oct. 1948. 280.28 G78
- 6348 MUELLER, H. H., and HOLT, E. K. Changes in composition of the fatty phase during the Twitchell splitting of coconut oil. *Amer. Oil Chem. Soc. J.* 25: 305-307. Sept. 1948. 307.8 J82
- 6349 NAVES, Y. R. Nerolidol from Myroxylon pereirae. *Perfumery & Essential Oil Rec.* 39: 280-281, 297. Sept. 1948. 308.8 P41
- 6350 NEME, N. A. Increase of soybean production and consumption [Brazil]. (In Portuguese.) *Colheitas e Mercados* 4(3/6): 23-24. Mar./June 1948. 255.3 Sa652
- 6351 NEWBY, W. The chemistry of fatty oils. *Brit. Chem. Digest* 2: 391-392. Sept. 1948. 382 B774
- 6352 PENFOLD, A. R. Australian tung oil. *Oil & Colour Chem. Assoc. J.* 31: 299-303. Aug. 1948. 306.9 Oi5
- 6353 PICKETT, T. A. Storage effects on the proteins of peanuts. *Amer. Chem. Soc. J.* 70: 3516-3517. Oct. 1948. 381 Am33J
- 6354 PONS, W. A., JR., and others. Storage of cottonseed and peanuts under conditions which minimize spectrophotometric changes in the extracted oil. *Amer. Oil Chem. Soc. J.* 25: 308-313. Sept. 1948. 307.8 J82  
M. D. Murray, R. T. O'Connor, and J. D. Guthrie, joint authors.
- 6355 REMUSSI, C. La industrialización del lino oleaginoso en la Argentina. I. *Campo y Suelo Argentino* 32(382): 22, 27. Aug. 1948. 9 C15



6356 RHODES, L. H., and GUERINONI, R. Valor de la torta de semilla de algodón; análisis económico de su uso como fertilizante, alimento del ganado, y producto de exportación. Vida Agr. 25: 675, 677, 679, 681-682. Aug. 1948. 9.8 V66

6357 RICE, E. E., PRIMM, E., and COOMBES, A. I. The present status of the antimony trichloride (blue-color) procedure for the estimation of vitamin A in margarine. Assoc. Off. Agr. Chem. J. 31: 621-633. Aug. 15, 1948. 381 As7

6358 ROSS, G. R. Prince Peanut. Carolina Farmer 3(8): 8-9. Aug. 1948. 6 C223  
Industry in the Virginia-Carolina area.

6359 RUIZ SANTAELLA, J. La fabricación de margarina en Holanda. Surco [Madrid] 7(76): 18. June 1948. 15 Su7

6360 SCHÄR, A. Aus der tätigkeit der ehemaligen fachexperten der Sektion für Speisefette und Speiseöle. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hygiene 39(1/3): 115-123. 1948. 389.9 Sw6

6361 SCHAUDER, R. The chemical industry in South Africa. Indus. Chem. 24: 586-588, 590-591. Sept. 1948. 382 In22

Touches upon the vegetable oil industry.

6362 SCHEIBE, A. Die Notwendigkeit des oelfruchtbaues in Europa. Neue Mitt. f. die Landw. 3: 193-195. July 5, 1948. 18 N39

6363 SCHOFFELMAYER, V. Okra seed. Chemurg. Digest 7(9): 17. Sept. 1948. 381 N213Na

6364 SCHOLFIELD, C. R., and others. Components of "soybean lecithin." Amer. Oil Chem. Soc. J. 25: 368-372. Oct. 1948. 307.8 J82

H. J. Dutton, F. W. Tanner, Jr., and J. C. Cowan, joint authors.

6365 SHORT, G. R. A. Essential oils, isolates and derivatives. Soc. Chem. Indus. Rpts. Prog. Appl. Chem. 32: 414-422. Ref. 1947. 382 M31R

6366 SMITH, A. K. Food uses for soybean protein. U. S. Bur. Agr. and Indus. Chem. AIC-197, 4 p. July 21, 1948. 1.932 A2Ag82

6367 SMITH, F. G., JR. Partial hydrogenation of linseed oil by a continuous process. Amer. Oil Chem. Soc. J. 25: 328-334. Ref. Sept. 1948. 307.8 J82

6368 SPADARO, J. J., and others. Pilot-plant fractionation of cottonseed. I. Disintegration of cottonseed meats. Amer. Oil Chem. Soc. J. 25: 345-353. Oct. 1948. 307.8 J82

R. M. Persell, C. H. Murphey, Jr., H. L. E. Vix, E. J. McCourtney, J. L. Hecker, E. F. Pollard, and E. A. Gastrock, joint authors.

6369 STAINSBY, W. J. The determination of linoleic acid in edible fats. Analyst 73: 429-434. Aug. 1948. 382 An1

6370 STIRTON, A. J., and others. Arylsteoric acids from oleic acid. Variables affecting the yield and properties. Amer. Oil Chem. Soc. J. 25: 365-368. Oct. 1948. 307.8 J82

B. B. Schaeffer, A. A. Stawitzke, J. K. Weil, and W. C. Ault, joint authors.

6371 TENENT, E. H. Importance of proper sampling. Oil Mill Gaz. 53(4): 33-36. Oct. 1948. 307.8 O153  
In oil milling.

6372 TYLER, L. D. Higher yields of better oils by continuous alkali refining. Food Indus. 20: 1456-1459, 1561-1562. Oct. 1948. 389.8 F737

6373 U. S. BUR. OF THE CENSUS. INDUSTRY DIVISION. Animal and vegetable fats and oils, 1943-1947. U. S. Bur. Census. Facts Indus. Ser. M17-7-07, 49 p. Sept. 8, 1948. 157.41 An52

6374 U. S. PRODUCTION AND MARKETING ADMIN. Preserving the quality of cottonseed in storage, by M. E. Whitten. Washington? 1948. 8 p. 1.956 C82P92  
Also in Oil Mill Gaz. 53(3): 13-21. Sept. 1948. 307.8 O153

6375 VARON, H. Regards sur la production des corps gras en U.R.S.S. Oléagineux 3: 446-450. Ref. Oct. 1948. 77.8 OL2

English summary, p. 498.

6376 VERHAAR, G., and DEYS, W. B. Tea seed oil. I. (In Dutch.) Arch. v. de Theecult. 16: 17-24. Ref. Apr. 1948. 68.18 Ea72  
English summary.

6377 WAMBLE, A. C. The extraction of oil from cottonseed by pressing and solvent extraction methods. Oil Mill Gaz. 53(3): 31-34. Sept. 1948. 307.8 O153

6378 WEIS, L. Aufgaben der öl- und margarine-industrie in der sowjetischen besatzungszone Deutschlands. Versorgung 3(1): 10-11. Aug. 1948. 280.8 V61

6379 WILLIAMS, K. A. Fats, fatty oils and detergents. Soc. Chem. Indus. Rpts. Prog. Appl. Chem. 32: 170-184. Ref. 1947. 382 M31R

Processing and analysis.

6380 WOODS, B. The East African groundnuts scheme. Rur. Bank N. S. Waeis. Farm Front 6: 109-111. July 1948. 281.9 R883

## POULTRY AND POULTRY PRODUCTS

6381 ADOLPH, R. H., and BURDICK, R. T. An analysis of costs of marketing eggs. (Abs.) Poultry Sci. 27: 651. Sept. 1948. 47.8 Am33P

6382 ALEXANDER, L. M., SCHOPMEYER, G. E., and MARSDEN, S. J. Yield of cooked edible portion of young roasted turkey. Poultry Sci. 27: 579-587. Sept. 1948. 47.8 Am33P

6383 ANDREWS, G. W. California and the turkey industry. Calif. Turkey News 1948: 19, 39, 52. Sept. 1948. 47.38 C12

6384 BACCELLI, A. Let us eat more eggs! (In Portuguese.) Chacaras e Quintais 78: 182-184. Aug. 15, 1948. 9.2 C34  
Brazil.

6385 BARBICH, M. T. Importancia de la avicultura en el País [Argentina] Chacra 18(215): 158. Sept. 1948. 9 C34

6386 BEANBLOSSOM, F. Z. Merchandising turkeys. Tex. Agr. Col. Ext. B. 163, 19 p. 1948. 275.29 T312  
Abstract in Poultry Sci. 27: 652. Sept. 1948. 47.8 Am33P

6387 BLACKWELL, L. Realistic poultry approach needed. Mod. Poultry Keeping 59: 257. Sept. 15, 1948. 47.8 Eg3  
Great Britain.

6388 BOWLES, C. E. Success smiles on the Smiley co-op; broilers are big business in Smiley and cooperation is making it bigger. Prog. Farmer, Tex. Ed. 63(10): 15, 138. Oct. 1948. 6 T311

6389 BROWN, J. I. Suggests need for and ideas on commercial kosher poultry. Amer. Egg & Poultry Rev. 9(10): 138, 140. Sept. 1948. 47.8 Am38

6390 BRUCE, W. H. With the Rural Bank's N.S.W. progressive farmer team. Poultry Farmer [Sydney] 16(5): 16-21. (Cont.) July 31, 1948. 280.28 Or32  
Turkey farms in Utah.

6391 BUSTER, M. W. Losses of poultry products in the channels of trade. (Abs.) Poultry Sci. 27: 655-656. Sept. 1948. 47.8 Am33P

6392 CARPENTER, C. D. Quality in volume looks like the answer. U. S. Egg & Poultry Mag. 54(10): 9-11, 28. Oct. 1948. 286.85 Eg3  
Poultry.

6393 CHAPLICKI, N. L. Frozen poultry only. Frozen Food Indus. 4(9): 4-5, 18-19. Sept. 1948. 389.8 F93

6394 CREIGHTON, H. Four factors that determine profits in poultry work. Ind. Farmers Guide 104(20): 26. Oct. 15, 1948. 6 In2

6395 CROSBY, J. Quality eggs or nothing. Calif. Farmer, South. Ed. 189: 320-321. Oct. 9, 1948. 6 C126A

6396 DANKERS, W. H. Lack of uniformity in egg grades at the producer level. (Abs.) Poultry Sci. 27: 657. Sept. 1948. 47.8 Am33P

6397 DAVIS, E. C. Chicken in the freezer. U. S. D. A. AIS-74, 8 p.-folder. Sept. 1948. 1 Ag84Ai

6398 DAWSON, L. E., and WOOD, G. B. A study of alternative methods of merchandising turkey meat. (Abs.) Poultry Sci. 27: 658-659. Sept. 1948. 47.8 Am33P

6399 DRYDEN, H. Tennis players make best poultrymen. Calif. Farmer, North. Ed. 189: 210-211. Sept. 11, 1948. 6 C126

Mass catching and handling of chickens.

6400 EMS, C. Poultry aids farm income. Ill. Dept. Agr. Ann. Rpt. 30: 235-253. 1947. 2 IL6R

6401 EVANS, R. J., DAVIDSON, J. A., and BUTTS, H. A. Changes in content of nutrients in shell eggs during storage. I-II. (Abs.) Poultry Sci. 27: 661-662. Sept. 1948. 47.8 Am33P

I. Proteins. II. Amino acids.



- 6402 FERGUSON, C. M., and STEVENS, H. F. Market survey as an extension device. (Abs.) Poultry Sci. 27: 662. Sept. 1948. 47.8 Am33P
- 6403 FERNEYHOUGH, F. Sending birds by rail. Poultry World 83: 191. Sept. 17, 1948. 47.8 P8682
- 6404 FLEURY, F. Le climat avicole du district de Bellechasse. Avic. Québécois 3(8): 12-14. Aug. 1948. 47.8 Av55
- Couvoir Coopérative de la Durantaye.
- 6405 FLEURY, F. Une visite à la "Dindonnière Enregistrée" de Yamachiche. Avic. Québécois 3(9): 24-25. Sept. 1948. 47.8 Av55
- 6406 FRASER, D. E. International uniformity sought; World's Poultry Congress calls for standardization of laying trials, grades of eggs and poultry and of containers. Farmer & Stock-Breeder 62: 2015. Aug. 31, 1948. 10 F228
- 6407 HANSEN, W. J., ODERKIRK, A. D., and MILLER, H. I. Problems and trends in country assembling of eggs in the Midwest area. (Abs.) Poultry Sci. 27: 666. Sept. 1948. 47.8 Am33P
- 6408 HEADLEY, F. B. Relation of size of turkeys to economy of production, edible meat in carcass, weights of parts of carcass. Nev. Agr. Expt. Sta. B. 180, 14 p. July 1948. 100 N41S
- 6409 HOLLANDER, W. F. Dressing percentage of squabs. Amer. Pigeon J. 37: 232. Sept. 1948. 47.8 Am35
- 6410 JAMES, R. S. Month-old chicks for long journeys; boxes for transportation to distant destinations if birds hardened off and well protected. Farmer's Weekly [Bloemfontein] 75: 107. Aug. 18, 1948. 24 F225
- 6411 JOHNSON, H. A., and SICER, J. W. Egg quality and the farm producer. (Abs.) Poultry Sci. 27: 670. Sept. 1948. 47.8 Am33P
- 6412 KAUFMAN, L. "Aging" of eggs. II. Decrease of hatchability and catalase content in stored eggs. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E 2, i. e. 3: 19-27. Ref. Jan. 10, 1948. 512 L96Ae
- English summary.
- 6413 KEMP, J. Co-operative marketing of eggs in England and Wales. Mod. Poultry Keeping 59: 233. Sept. 8, 1948. 47.8 Eg3
- Summary of paper given at World's Poultry Congress, Copenhagen.
- 6414 KEPPEL, G. E. Report on added glycerol in eggs. Assoc. Off. Agr. Chem. J. 31: 498. Aug. 15, 1948. 381 As7
- 6415 KIRBY, A. Egg supply shortage is likely to keep egg prices up until spring. Pa. Meat Dealer 22(10): 15. Oct. 1948. 286.85 P38
- 6416 KLEIN, G. T. Successful growers tell how to hedge broiler profits. A six-point program which helps to overcome the bogies of high feed costs or low selling prices. Poultry Tribune 54(8): 10, 22-23. Sept. 1948. 47.8 P8642
- 6417 KRANEVELD, F. C., and MANSJOER, M. Making salmonella infected duck eggs safe for consumption. (In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 54: 181-196, 226-236. Oct., Dec. 1947. 41.8 V51
- 6418 KUMMEROW, F. A., and others. Fat rancidity in eviscerated poultry. I. The effect of variation in diet on the cold storage life of immature turkeys. Poultry Sci. 27: 635-640. Ref. Sept. 1948. 47.8 Am33P
- C. E. Vail, R. M. Conrad, and T. B. Avery, joint authors. Abstract in Poultry Sci. 27: 671-672. Sept. 1948. 47.8 Am33P
- 6419 LEE, A. R. Use and care of feathers. U. S. Bur. Anim. Indus. A. H. D. 120, 3 p. Aug. 1948. 1.9 An52Ah
- 6420 LOWE, C. H., and KING, R. How Michigan farmers use poultry marketing information. Mich. Agr. Expt. Sta. Q. B. 31: 109-114. Aug. 1948. 100 M58S
- 6421 MCARDLE, A. A. Clean eggs for export. Poultry Farmer [Sydney] 16(6): 11-12. Aug. 7, 1948. 280.28 Or32
- 6422 MCNALL, F. J. Report on acidity of fat in eggs. Assoc. Off. Agr. Chem. J. 31: 498-500. Aug. 15, 1948. 381 As7
- 6423 MEHRHOF, N. R. Florida's poultry industry 1932-1948. Fla. Poultry & Dairy J. 14(8): 13. Sept./Oct. 1948. 47.8 F66
- 6424 MILLER, H. I. Marketing research methodology. (Abs.) Poultry Sci. 27: 676. Sept. 1948. 47.8 Am33P
- 6425 MILLER, H. I. Parity and support prices for poultry products. (Abs.) Poultry Sci. 27: 676. Sept. 1948. 47.8 Am33P
- 6426 MILLER, M. W., BOGGS, L. C., and BEARSE, G. E. The effect of hexachlorocyclohexane roost paints on flavor and odor of chicken meat and eggs. (Abs.) Poultry Sci. 27: 676-677. Sept. 1948. 47.8 Am33P
- 6427 MONCRIEF, T. E. Eastern breeders the industry's pioneers. Everybody's Poultry Mag. 55 i. e. 53(8): 12, 44-45. Sept. 1948. 47.8 F213P
- 6428 MOORE, A. C. My impression of Denmark's poultry industry. Poultry [London] 103: 230. Sept. 21, 1948. 47.8 P869
- 6429 MOORE, A. C. We must advertise the [poultry] industry to the public. Poultry [London] 103: 208. Sept. 14, 1948. 47.8 P869
- 6430 MOORE, E. V. Agriculture's vast job. Poultry and egg industry an important link in the food production chain filling the nation's needs. Amer. Egg & Poultry Rev. 9(10): 124, 126. Sept. 1948. 47.8 Am38
- 6431 MUIR, J. Prime produce anytime: save by buying and freezing your winter's supply of poultry now, while prices are at their lowest. Your Gard. & Home 2 (10): 10, 17. Oct. 1948. 80 Y8
- 6432 NATIONAL EGG PRODUCTS ASSOCIATION. RESEARCH LABORATORY. Chemical and bacteriological methods for the examination of eggs and egg products. Chicago, 1948. 7 p. 387.1 N214
- 6433 NEUMEISTER, H. Das ei und wir. Wirtsch. Ztg. 3(33): 12. Aug. 13, 1948. 280.8 W742
- 6434 NEWTON, MRS. C. M., JR. One egg customer leads to another. It takes time to deliver eggs three times a week, but special outlets pay extra for top quality eggs. Pacific Poultryman 52(9): 8, 24-25. Oct. 1948. 47.8 P112
- 6435 NORTH, M. O. When to market for maximum profit; feeding tests show that late gains are costly. Turkey World 23(9): 11, 39-40. Sept. 1948. 47.38 T84
- 6436 NUGENT, G. R. H. How [British poultry] industry is organized. Poultry [London] 103: 210. Sept. 14, 1948. 47.8 P869
- Summary of paper given at World's Poultry Congress, Copenhagen.
- 6437 PARKS, S. New way to clean eggs; detergents help make a tedious job easier. Amer. Poultry J. 11, 22. Oct. 1948. 47.8 Am32
- 6438 PAYNE, L. F. Poultry owners are lucky; feed down, eggs and meat up, profit ahead. Kans. Farmer 85 (19): 28-29. Oct. 2, 1948. 6 K13
- 6439 PEINE, A. It is time to change. U. S. Egg & Poultry Mag. 54(10): 15, 34-36. Oct. 1948. 286.85 Eg3
- Poultry industry outlook.
- 6440 PHILLIPS, R. W., JOHNSON, R. G., and MOYER, R. T. China's chicken industry. Poultry Farmer [Sydney] 16(7): 24-28. Aug. 14, 1948. 280.28 Or32
- 6441 POLLARD, W. S. Arkansas broiler industry. (Abs.) Poultry Sci. 27: 680. Sept. 1948. 47.8 Am33P
- 6442 PROULX, J. R. Situation avicole et perspectives d'avenir. Avic. Québécois 3(9): 14-16. Sept. 1948. 47.8 Av55
- 6443 RETSON, G. C. Poultry production in Nova Scotia. Econ. Annal. 18: 52-55. Aug. 1948. 281.8 Ec72
- 6444 RUDD, C. P. Marketing poultry products through institutions and purveyors of meals. Amer. Egg & Poultry Rev. 9(10): 82, 84, 86, 88. Sept. 1948. 47.8 Am38
- 6445 SCHALLER, H. L. Chicken for every taste. Processors tempt consumers with poultry packaged in more than 50 ways. Poultry Tribune 54(9): 10-11, 33-36. Oct. 1948. 47.8 P8642
- 6446 SCOTT, H. M. Specialize—but do the job right. U. S. Egg & Poultry Mag. 54(10): 8-9, 38. Oct. 1948. 286.85 Eg3
- Poultry industry.
- 6447 SMALL, M. C. A preview of 1948-49; outlook appears favorable for all branches of the industry. Turkey World 23(10): 20. Oct. 1948. 47.38 T84
- 6448 SMITH, E. Y. Eastern trends in turkey production and marketing. (Abs.) Poultry Sci. 27: 683-684. Sept. 1948. 47.8 Am33P
- 6449 TAYLOR, M. W. Shall I be a poultry farmer? Poultry Farmer [London] 119(3087): 8-9. Sept. 3, 1948. 47.8 F312



6450 TERMOHLEN, W. D. International standardization and grading of eggs and poultry and uniformity of packages. *Amer. Egg & Poultry Rev.* 9(10): 30, 32, 34, 36, 96. Sept. 1948. 47.8 Am38

6451 THOMPSON, A. How the Danes do it. Has Denmark a poultry lesson for us? *Poultry Farmer* [London] 119(3089): 4. Sept. 17, 1948. 47.8 F312

6452 TOBIN, B. F. Overall aspects of marketing poultry products. *Amer. Egg & Poultry Rev.* 9(10): 65-66, 68-70, 72, 74. Sept. 1948. 47.8 Am38

6453 TRELEASE, R. D., KOONZ, C. H., and ROBINSON, H. E. Prompt evisceration is best guard against the development of visceral taints. *U. S. Egg & Poultry Mag.* 54(10): 12, 22-23. Oct. 1948. 286.85 Eg3

6454 U. S. BUR. OF AGRICULTURAL ECONOMICS. Chickens raised on farms in 1948; preliminary estimates. Washington, 1948. 2 p. 1.941 H8C434

6455 U. S. BUR. OF AGRICULTURAL ECONOMICS. Missouri turkey crop report, 1948. Columbia, Mo., 1948. 2 p. 1.941 H8T84

6456 U. S. BUR. OF AGRICULTURAL ECONOMICS. Smallest turkey crop in 10 years. Washington, 1948. 3 p. 1.941 S2T844

6457 VAN WAGENEN, A. Let's take a look at the world's largest live poultry market. As high as a million pounds of poultry a day go through the hands of weighmasters and inspectors in New York City's six-year old giant terminal along the East River. *Everybody's Poultry Mag.* 55 i. e. 53(10): 6, 22-23. Nov. 1948. 47.8 F213P

6458 VONDELL, J. H. Packaging poultry. *Everybody's Poultry Mag.* 55 i. e. 53(8): 32. Sept. 1948. 47.8 F213P

6459 WALLACE, L. H. Poultry pointers. *Pract. Home Econ.* 26: 684, 696. Nov. 1948. 321.8 H752 Purchase and cooking.

6460 WARREN, C. C. Factors affecting demand for baby chicks. *Natl. Poultry Digest* 7: 526-531. Sept. 1948. 47.8 N219

6461 WHEELER, F., HICKINBOTHAM, D. P., and SCOTT, MRS. M. The future for table poultry production. *Poultry Indus.* 13: 367-368, 369. Sept. 3, 1948. 47.8 P8644

Great Britain.

6462 WHITEHALL, W. L. Eggs in shell. *Queensland Co-op.* 3(14): 15, 17. (Cont.) July 22, 1948. 280.28 Q3

Soiled eggs, packing and grading.

6463 WORCESTER, P. F. Poultry raising in the Northeast. *Everybody's Poultry Mag.* 55 i. e. 53(8): 10-11. Sept. 1948. 47.8 F213P

#### RUBBER AND RUBBER SUBSTITUTES

6464 BARRON, H. Modern rubber chemistry. New York, Van Nostrand, 1948. 502 p. 305 B27

6465 BRAZIER, S. A. Rubber. *Soc. Chem. Indus. Rpts. Prog. Appl. Chem.* 32: 304-323. Ref. 1947. 362 M31R

6466 GILS, G. E. VAN. Recent developments in latex technology. (In Dutch.) *Chron. Nat.* 104: 219-220. July 1948. 514 B31

6467 LE BEAU, D. S. Basic reactions occurring during rubber reclaiming. II. *India Rubber World* 119(1): 69-74. Oct. 1948. 305.8 In2

6468 MCKENNON, F. L., and others. Rubber from goldenrod. II. *India Rubber World* 118: 802-803, 809. Sept. 1948. 305.8 In2

E. L. D'Aquin, W. F. Guilbeau, H. J. Molaison, J. Pominski, and H. L. E. Vix, joint authors.

6469 MORRIS, H. B., and HINDERER, R. F. Coagulant deposition of latices. I. Natural latex. *Rubber Age* 63: 745-747. Sept. 1948. 305.8 R82

6470 OBERTO, S., and PALANDRI, G. Hysteresis and heating in vulcanized rubber. *Rubber Age* 63: 725-734. Sept. 1948. 305.8 R82

6471 WOLF, G. M. The rubber industry in the Detroit area. *India Rubber World* 119(1): 63-65. Oct. 1948. 305.8 In2

6472 WOLF, R. F. Eighty-eight years of synthetic rubber. *Rubber Age* 29: 252, 254. (Cont.) Sept. 1948. 305.8 R824

#### SEEDS

6473 ARENTOFT, M. The 1948 seed crop prospects. (In Danish.) *Tidsskr. for Frøavl* 37: 23-28. Sept. 1948. 61.8 T43

Denmark.

6474 BURR. Zur versorgung mit herbstsaatgut. *Württemb. Wchnbl. f. Landw.* 115: 231. Aug. 28, 1948. 18 W96

6475 COMPTON, L. L. Handling certified seed. *Grain & Feed J. Consolidated* 101(5): 28. Sept. 8, 1948. 298.8 G762

6476 DENMARK. STATSFRØKONTROLLEN. Report from the Danish State Seed Testing Station for the 76th working year from the 1st July 1946-30th June 1947. (In Danish.) *Tidsskr. for Planteavl* 52(1): 1-68. 1948. 11 T439

English summary.

6477 FINNELL, H. E. Oregon's program in seed certification. *Oreg. Dept. Agr. B.* 159: 12-13. Sept. 1948. 2 Or3

6478 HACKLEMAN, J. C. Crop improvement by seed certification. *Philfarmer* 1948: 1. Third Quarter 1948. 6 P53

6479 HARRINGTON, J. F. Hard seeds in beans; proper temperature and humidity during storage important for germination. *Calif. Agr. [Calif. Sta.]* 2(10): 4, 12. Oct. 1948. 100 C12Cag

6480 JONES, D. Blue blooded Canadian vegetables. *Family Herald & Weekly Star* 79(41): 17, 19. Oct. 13, 1948. 7 F21

Registered vegetable seeds, British Columbia.

6481 KNOLLE, W. Ertragssteigerung durch einkeimigen rübensamen. *Neue Mitt. f. die Landw.* 3: 82. Mar. 21, 1948. 18 N39

6482 KROSBY, P. Seed quality in South-Norway. (In Norwegian.) *Norsk Landbr.* 14: 88-90. Mar. 5, 1948. 11 N8122

6483 LIER, O. Self-sufficiency in seeds in Scandinavia. (In Norwegian.) *Nord. Jordbrugsforsk.* 1948: 442-452. 11 N752

6484 LUND, J. H. Self-sufficiency in root crop and vegetable seeds in Scandinavia. (In Norwegian.) *Nord. Jordbrugsforsk.* 1948: 453-458. 11 N 752 Discussion, p. 458-460.

6485 MCCULLOUGH (J. CHAS.) SEED COMPANY. Farm and grass seed manual. Cincinnati, 1948. 128 p. Ref. 60 M132

6486 MAXWELL, R. W. Carleton County [New Brunswick] seed growers' co-operative do big business. *Marit. Farmer & Co-op. Dairyman* 54(2): 5, 50. Oct. 19, 1948. 7 C77

6487 SAMVIRKENDE DANSKE FRØAVLERFORENINGER. Prices of the fall 1947 field crop seeds. (In Danish.) *Dansk Frøavl* 31: 109-117. Sept. 15, 1948. 61.8 D23

6488 STAHL, C., and others. Report on seed control in Scandinavia. (In Danish, Norwegian and Swedish.) *Nord. Jordbrugsforsk.* 1948: 408-429. 11 N752

Seed control in Denmark, by C. Stahl, p. 408-415; Seed control in Finland, by E. Kitunen, p. 415-418; Seed control in Norway, by P. Krosby, p. 419-425; Seed control in Sweden, by G. Nilsson-Leissner, p. 425-429.

6489 TAANING, T., ed. Aktieselskabet dansk Frøavls Kompagni og Markfrøkontoret. *Trifolium*. 1872-16. December-1947. København, 1948? 40 p. 61.9 T11 Also an English edition. History of a Danish seed company.

#### SUGAR AND SIRUPS

6490 ALKINS, H. F. B.W.I. Sugar Association aims to promote industry. *Caribbean Comm. Monthly B.* 2: 40, 42. Sept. 1948. 280.9 C19

6491 ALMEIDA, J. R. DE. Bagasse from sugarcane (In Portuguese.) *Brasil Açucareiro* 31: 633-639. June 1948. 65.8 B73

6492 BAENS-ARCEGA, L., and YENKO, F. M. Some factors affecting the production of dextran from cane sugar by *Leuconostoc dextranicum*. *Philippine J. Sci.* 77: 39-53. May 1947. 475 P53

6493 BINKLEY, W. W., and WOLFROM, M. L. Chromatography of sugars and related substances. *Sugar Res. Found. Sci. Rpt. Ser.* 10, 33 p. Ref. Aug. 1948. 65.9 Su34



- 6494 BOTELHO, J. Electrometric pH. (In Portuguese.) Brasil Açucareiro 31: 628-630. June 1948. 65.8 B73  
In sugar manufacture.
- 6495 BRUSSONE, J. J. Historia del azúcar antes del descubrimiento de América. Rev. Bimestre Cubana 59(1/3): 195-211. Jan./June 1947. 110 R32
- 6496 BULLEN, J. Operation of the Bach subsider. Reduction of sucrose losses during shut-down periods. Internatl. Sugar J. 50: 261-262. Oct. 1948. 65.8 In8
- 6497 CASANOVA, J. M. Minuto crucial: las restricciones de la zafra. Rev. Nac. de Cien. Polit.-Econ.-Sociales 7(80): 11-12. July 1948. 280.8 R3295 Cuba.
- 6498 CAWSEY, E. W. The Australian sugar industry. Rur. Bank N. S. Wales. Farm Front 6: 101-106. (Cont.) July 1948. 281.9 R883
- 6499 CUBA. MINISTERIO DE AGRICULTURA. NEGOCIADO DE ASUNTOS AZUCAREROS. Zafra de 1947, principales datos estadísticos. Habana, 1947. 7 p. 65.9 C896
- 6500 DAVIDSON, F. A. Contributions of liquid sugar. Confectionery-Ice Cream World 40(17): 41. Oct. 22, 1948. 389.8 C767
- 6501 DYER, B. W., & Co. Sugar review. Natl. Bottlers' Gaz. 67(800): 86. Oct. 1948. 390.8 N21
- 6502 EDRINGTON, M. P., and WEINSTEIN, S. New filter improves syrup production. Sugar 42 i. e. 43 (10): 35-39. Oct. 1948. 65.8 F11
- 6503 FERRANTE, A. The present and future situation of the confectionery industry. (In Italian.) Alimenti 4: 128-131. July/Aug. 1948. 389.8 AL44  
Includes discussion of beet sugar production.
- 6504 FREED, B., and HIBBERT, D. Some aspects of the decolorization of sugar juices. Internatl. Sugar J. 50: 263-265. Oct. 1948. 65.8 In8
- 6505 GARINO, M. Ion exchange in the purification of sugar sirup. (In Italian.) Indus. Sac. Ital. 41: 103-106. May/June 1948. 65.8 In23
- 6506 GEUDEKER, T. C. The world sugar position. (IV). (In Dutch.) Econ. Statis. Ber. 33: 651-654. Aug. 18, 1948. 280.8 Ec722
- 6507 GILLESPIE, T. G. The significance of bacteriological standards for canners' sugar. Bristol. U. Fruit and Veg. Preserv. Res. Sta. Ann. Rpt. 1947: 55-59. 389.9 B77A
- 6508 GODOY, J. M. DE. A clarificação da garapa nas usinas e nos pequenos engenhos de açúcar [Clarification of sugarcane juice in factories and in small sugar mills]. São Paulo, 1947. 31 p. Ref. 31.9 Sa63
- 6509 GOMES, P. Some production factors. (In Portuguese.) Brasil Açucareiro 31: 624-627. June 1948. 65.8 B73
- 6510 KELLER, A. G. The Hawaiian sugar industry. Sugar J. 11(5): 5-6, 8, 10-13. (To be cont.) Oct. 1948. 65.8 Su391
- 6511 LAMEGO, A. French invasions and our sugar. V. (In Portuguese.) Brasil Açucareiro 31: 651-652. June 1948. 65.8 B73
- 6512 LIMA ROMERO, J. J. What do excessive losses and the molasses for the cane grower amount to for the sugar mill owner. Asoc. de Téc. Azucareros de Cuba. Proc. 21: 185-187. 1947. 65.9 As5
- 6513 LYONS, G. What's ahead for sugar beet growers. Spreckels Sugar Beet B. 12: 37, 40. Sept./Oct. 1948. 66.8 Sp7
- 6514 MCDONALD, E. J., and TURCOTTE, A. L. Density and refractive indices of lactose solutions. Assoc. Off. Agr. Chem. J. 31: 687-699. Aug. 15, 1948. 381 As7
- 6515 MARIANI, E. Possibility of using resins to effect ion exchange in sugar refining. (In Italian.) Indus. Sac. Ital. 41: 107-113. Ref. May/June 1948. 65.8 In23
- 6516 MEISNER, F. Mehr zuckerrübenanbau in Klein- und mittelbäuerlichen betriebe. Neue Mitt. f. die Landw. 3: 81. Mar. 21, 1948. 18 N39
- 6517 MORSE, I. H. How to prevent sugar losses in the Louisiana cane fields. Sugar 42 i. e. 43(10): 28-30. Oct. 1948. 65.8 F11
- 6518 RAE, W. F. Utilization of waste bagasse from sugar-cane. Pacific Plastics 6(10): 20, 22. Oct. 1948. 309.8 P12
- 6519 RAMIREZ SILVA, F. J. Colloidal bentonite as a clarifying agent. Sugar J. 11(5): 3-4, 14-18. Oct. 1948. 65.8 Su391
- 6520 ROSELLO, A. A. La ley de coordinación azucarera. Tierra Libre 12(10): 14-15. Sept. 1948. 8 T443
- 6521 RYDELL, G. Massequite-valves. (In Swedish.) Socker 4: 91-96. Apr. 1948. 65.8 Sol  
English summary.
- 6522 SALANI, R., and MONTI, M. Analytical chemical research on "Disidratolo," the dehydrating mixture in the Mariller absolute alcohol process. (In Italian.) Indus. Sac. Ital. 41: 114-116. May/June 1948. 65.8 In23
- 6523 SANTIESTEBAN, T. El colonato azucarero: sus últimos postulados. Rev. Nac. de Cien. Polit.-Econ.-Sociales 7(80): 17. July 1948. 280.8 R3295 Cuba.
- 6524 SINGH, SIR D. Sugar industry in India. Indian Farming 9: 57-62. Feb. 1948. 22 In283
- 6525 SOUTH AFRICA. BOARD OF TRADE AND INDUSTRIES. The South African sugar industry—review. Pretoria, 1947. 158 p. (Rpt. 298) 281.365 So82
- 6526 STACEY, M. Sugars. Soc. Chem. Indus. Rpts. Prog. Appl. Chem. 32: 371-376. Ref. 1947. 382 M31R  
Manufacture.
- 6527 VAZQUEZ, E. A. Utilización industrial del cogollo y del follaje de la caña de azúcar. Asoc. de Téc. Azucareros de Cuba. B. Ofic. 7: 167-175. Aug. 1948. 65.9 As5B
- 6528 VIVEIROS, J. DE. Sugar seen through the periodical "O Auxiliador da Indústria Nacional." XLVI. (In Portuguese.) Brasil Açucareiro 31: 654-656. June 1948. 65.8 B73
- 6529 ZUCCHINI, M. Beet notes. (In Italian.) Humus 3(9): 11-12. Sept. 1947. 16 H88

## TOBACCO

- 6530 BROWN, O. A., and WELDON, N. W. Cut-rate curing. Res. and Farming. [N. C. Sta.] Prog. Rpt. 7(1): 3. July 1948. 100 N81R
- 6531 CHANG, S. C. Tobacco production program and regulatory service. China. Min. Agr. and Forestry. Misc. P. 1: 11-13. Apr. 1948. 22.5 C4412M
- 6532 EDWARDS, C. H. Rules given for cutting, housing and curing burley. West. Tobacco J. 75(38): 11, 26. Sept. 21, 1948. 286.89 W52
- 6533 GIOVANNONZZI, M. Fermentation of our eastern tobaccos. (In Italian.) Tabacco 52: 227-230. Aug. 1948. 69.8 T115
- 6534 HULLER, K. Tabakerfassung der ernte 1948. Versorgung 2: 190. July 1948. 280.8 V61  
Russian Zone of Germany.
- 6535 LEE, G. W. Smithfield [tobacco] market continues expansion. Carolina Farmer 3(8): 14. Aug. 1948. 6 C223
- 6536 MCCULLERS, J. M. New tobacco market at Dunn wins wide approval. Carolina Farmer 3(9): 20-21. Sept. 1948. 6 C223
- 6537 MAXTON, J. L. The future of Virginia fire-cured [tobacco]. Va. Farmer 17(10): 5, 8. Oct. 1948. 6 V813
- 6538 NAUDÉ, C. P. The production of nicotine sulphate from South African waste tobacco. Union So. Africa. Dept. Agr. Sci. B. 278, 128 p. Ref. 1947. 24 So84S
- 6539 PADILLA SUAREZ, N. Productos derivados del tabaco. Cuba. Min. de Agr. Rev. (ser. 6) 31(1): 72-76. Jan./June 1948. 8 Ag88Re
- 6540 PHILLIPS, S. D. G. Where leaf is grown; how tobacco is cured and sold. Tobacco [London] 814: 82-83, 115. Oct. 1948. 286.89 T553
- 6541 ROJAS, A. Consideraciones alrededor de la industria tabacalera de Puerto Rico. Almanaque Agr. de Puerto Rico 1947: 33-73. 8 AL62
- 6542 RUIZ M., B. El tabaco en Santander. Santander. Contraloría Dept. B. 13(46): 30-32. Feb./Mar. 1948. 255.5 C7152
- 6543 U. S. BUR. OF AGRICULTURAL ECONOMICS. Tobaccos of the United States; acreage, yield per acre, production, price, and value, by States, 1866-1945 and by types and classes, 1919-1945. U. S. Bur. Agr. Econ. CS-30, 82 p. July 1948. 1.9422 A8C732
- 6544 VEN, R. VAN DER. Some experiments with Thermobacter mobile (Pseudomonas mobile). (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 452-463. July 1948. 86 N384  
In tobacco fermentation.



6545 YU, H. H. Geographical distribution of tobacco productions in China. (In Chinese.) Monthly Farmers' Bank China 9(2): 20-23. Feb. 1948. 281.9 F225M English summary.

#### MISCELLANEOUS PRODUCTS

6546 AUWERA, G. V. Economic aspects of the cut flower industry. (In Flemish.) Tuinbouwberichten 12: 118-120. Aug. 15, 1948. 80 T817

6547 BENDIEN, H. P. Future of florists. II. (In Dutch.) Bloemisterij 22(37): 1. Sept. 10, 1948. 80 B624

6548 BUTTERFIELD, H. M. Cut flowers; 1947 value estimated to have exceeded total of twenty-five million dollars. Calif. Agr. [Calif. Sta.] 2(10): 15. Oct. 1948. 100 C12Cag

6549 DUGGAN, R. E. Report on decomposition in shellfish; indole in shrimp, oysters, and crabmeat. Assoc. Off. Agr. Chem. J. 31: 507-510. Aug. 15, 1948. 381 As7

6550 FLEMING, A. J. Three years of hop inspection. Oreg. Dept. Agr. B. 159: 8-10. Sept. 1948. 2 Or3

6551 GOEDKOOP, W. Investigations on hop storage. Brewers Digest 23(9): 50. Sept. 1948. 390.8 B75

6552 GRANIER CHIRVECHES, J. La coca boliviana. Campo [La Paz] 2(12): 17-20. Apr. 1948. 9.1 C15

6553 HAMMOND, A. E. Quick freezing at Grimsby. 1. Fruit, Flower & Veg. Trades' J. 94: 280-281. Aug. 28, 1948. 80 F946  
Freezing fish.

6554 HARVEY, E. W., and MANN, F. C. Canning Dungeness crabmeat. Canner 107(12): 13-15, 24. Sept. 18, 1948. 286.83 C16

6555 JACOBS, M. B. Hops for flavoring. Amer. Perfumer & Essential Oil Rev. 52: 226-228. Sept. 1948. 308.8 Am3

6556 KUBAL, J. V., and GRALEN, N. Physico-chemical properties of karaya gum and locust bean mucilage. J. Colloid Sci. 3: 457-471. Ref. Oct. 1948. 381 J828

6557 PEIXOTO, S. The problem of utilizing guarana. (In Portuguese.) Assoc. Com. do Amazonas. B. 7(84): 26-28. July 1948. 286.9 As7B

6558 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Qué és una co-operativa de pescadores. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 28, 3 p. Jan. 1948. 275.29 P962

6559 ROBOZ, E., and HAAGEN-SMIT, A. J. A mucilage from Aloe vera. Amer. Chem. Soc. J. 70: 3248-3249. Oct. 1948. 381 Am33J

6560 SHERR, H. Fish consumption rising. Agr. Situation 32(9): 7. Sept. 1948. 1 Ec7Ag

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

##### GENERAL

6561 BLANKENHEIMER, B. Development of economic resources in the British colonies. Foreign Com. 33(1): 3-7, 44-47. Oct. 2, 1948. 157.54 F763

6562 BRIZI, A. Notes on some economic problems of the Italian Mezzogiorno. (In Italian.) Riv. di Econ. Agr. 3: 132-158. 1948. 281.8 R52  
English summary.  
Agricultural.

6563 CATTOIR, L. Dirigisme et déséquilibre économique. Colon Franç. de Tunisie (ser. 7) 58(2058): 1. July 31, 1948. 24 C712

6564 CLAIBORNE PARISH, LOUISIANA. PLANNING BOARD. Claiborne Parish resources and facilities. Baton Rouge, 1948. 114 p. 280.7 C52  
Includes land use, agriculture, and forestry.

6565 COSTA, C. DE A. Protect the Amazonian economy while there is time. (In Portuguese.) Assoc. Com. do Amazonas. B. 7(84): 23-25. July 1948. 286.9 As7B

6566 DELTA COUNCIL. Annual report, 1947/1948. Stoneville, Miss., 1948. 42 p. 280.9 P38R

6567 DORFMAN, A. La Comisión Económica para la América Latina y los urgentes problemas de la economía continental. Agrario 13(400): 4, 15. Apr. 1948. 9.3 Ag85

6568 "FARM ECONOMICS," by T. Brinkmann. (In Italian.) Riv. di Econ. Agr. 3: 186-211. 1948. 281.8 R52

English summary.

6569 GROGAN, F. O. Commercial policy in relation to agriculture. Austral. Inst. Agr. Sci. J. 14: 85-88. June 1948. 23 Au74

6570 LI, C. L. A brief sketch of the newly established Agricultural Economics Research Bureau. China. Min. Agr. and Forestry. Misc. P. 1: 38-40. Apr. 1948. 22.5 C4412M

6571 PERINI, D. Facts on Alpine agrarian economy. (In Italian.) Riv. di Econ. Agr. 3: 265-280. 1948. 281.8 R52

English summary.

6572 RODRIGUEZ, C. A. Desarrollo y retraso económico de Santander. Santander. Contraloría Dept. B. 13(46): 22-26. Feb./Mar. 1948. 255.5 C7152

6573 SCHLUDERBERG, W. F. Maryland's agricultural prosperity aids Baltimore business. Md. Farmer 32(8): 16. Aug. 1948. 6 M362

6574 SHIH, H. Economic situations in rural China since the V-J day. (In Chinese.) Monthly Farmers' Bank China 9(4): 31-41. Apr. 1948. 281.9 F225M  
English summary.

6575 STEAD, W. H. The long-time economic outlook. Amer. Soc. Farm Mgrs. & Rur. Appraisers. J. 12: 170-183. Oct. 1948. 281.8 Am32

6576 TORRES FILHO, A. Economic planning. (In Portuguese.) Lavoura 52: 3-4. Mar./Apr. 1948. 9.2 L39  
Brazil.

6577 U. S. BUR. OF AGRICULTURAL ECONOMICS. Agricultural economics and statistical publications. Washington, 1948. 54 p. 1.941 E8Ag8

#### AGRICULTURAL FINANCE

6578 DRESEN, W. H. Public expenditures in Oregon. Oreg. Agr. Expt. Sta. B. 447, 99 p. July 1947. 100 Or3

6579 LÄHNEMANN, R. Währungsreform und reparaturbetrieb. 2. Landtechnik 3: 224-226. July 31, 1948. 58.8 L235  
Germany.

6580 MOSS, B. Who owns savings bonds. Natl. Indus. Conf. Bd. Business Rec. 5: 350-354. Sept. 1948. 280.9 N216Cb  
Brings out rural investment.

6581 RENNEFELD, J. Das gefühl der unsicherheit. Landtechnik 3: 220-221. July 31, 1948. 58.8 L235  
Currency reform in Germany.

6582 SAFRONOV, A. M. O gosudarstvennom bfidzhete RSFSR na 1948 god [On the State budget of the Russian Republic for 1948]. Moskva, Gos. Izd-vo Polit. Lit-ry, 1948. 37 p. 284 Sa12  
Agricultural finance.

6583 SCHLANGE-SCHONINGEN. Die krise der landwirtschaft. Württemb. Wchnbl. f. Landw. 115: 221. Aug. 21, 1948. 18 W96

6584 VANVIG, A. Financial progress of farmers during 1947. Minn. U. Agr. Farm Business Notes 307: 3. Aug. 30, 1948. 275.29 M663  
In Minnesota.

6585 WHITBY, H., and JONES, R. B. Farm incomes, rents and wages, 1939-40 to 1945-46. Scot. Agr. 28: 59-66. Autumn 1948. 10 Sco82So

#### Credit

6586 AQUINO, F. (HIJO). El sistema de crédito a la producción de los Estados Unidos. Café de El Salvador 18: 545-554. July 1948. 68.28 C112

6587 BANCO AGRICOLA DE BOLIVIA. Sexta memoria correspondiente al año 1947. La Paz, 1948. 73 p. 284.29 B2213

6588 BANCO AGRICOLA Y PECUARIO. Informe anual, 1947. Caracas, 1948. 73 p. 284.29 B224I

6589 BUCHINGER, R. Die aufgaben der genossenschaftlichen kreditorganisation. Landw. Genossenschaftsbl. f. Niederösterreich 45(8): 8-12. (Concl.) Aug. 1, 1948. 280.28 L23

6590 CAMBIER, L. L. How banks fit into the farm picture; banks are more than just financing agencies and depositories for money. Fed. Reserve Bank of Boston. New England Farm Finance News 3(9): 3-4. Sept. 1948. 284.28 N44



- 6591 CHAO, P. C. Present status of loan operations of the Farmers' Bank of China. China. Min. Agr. and Forestry. Misc. P. 1: 21-25. Apr. 1948. 22.5 C4412M
- 6592 CHEGUT. L'évolution du crédit agricole en France. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 39-83. 1948. 280.29 C761929
- 6593 CRUZ, R. E. La organización del crédito agrícola en Honduras. Cám. de Com. e Indus. de Tegucigalpa B. 2(20): 17-18. July 1948. 287 T23
- 6594 DULIN, C. Le crédit agricole en Charente-Maritime et dans les départements limitrophes. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 159-176. 1948. 280.29 C761929
- 6595 GARRIGUES DIAZ CAÑABATE, J. L. El crédito agrícola: intervención de las hermandades. Congreso Sindical de la Tierra. Estudios y Conclusiones 1948: 109-114. 281.9 C7664
- Spain.
- 6596 GAST GALVIS, E. Fondo Ganadero de Santander, S. A. Santander. Contraloría Dept. B. 13(46): 27-29. Feb./Mar. 1948. 255.5 C7152
- 6597 JONES, T. C. Co-ops faced with economic decision; factors of credit trading dangerous to cooperatives. Prod.-Consum. 15(2): 2. Sept. 1948. 280.28 P942
- 6598 LEBEAU. L'évolution du crédit agricole mutuel en Algérie; ses besoins actuels. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 107-127. 1948. 280.29 C761929
- 6599 LI, S. M. The Farmers' Bank of China in 1947. (In Chinese.) Monthly Farmers' Bank China 9(4): 1-5. Apr. 1948. 281.9 F225M
- English summary.
- 6600 MORA DÁVILA, N. El fondo de fomento ganadero. Rev. Agr. y Ganad. 10(107): 22-23. Aug./Sept. 1948. 9.4 R327
- Colombia.
- 6601 NAIK, K. N. Reorientation of land mortgage banks in Bombay. Bombay Co-op. Q. 30: 240-245. Apr. 1947. 280.28 B63
- 6602 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Ahorro. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 20, ed. 2, 11 p. Jan. 1948. 275.29 P962F
- In credit cooperatives.
- 6603 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. El comité de supervisión. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 34, 4 p. Mar. 1948. 275.29 P962
- Credit cooperatives.
- 6604 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Cómo solicitar un préstamo. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 36, 3 p. Apr. 1948. 275.29 P962
- 6605 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Cooperativas de crédito: la reunión anual. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 16, 2 p. Feb. 1947. 275.29 P962F
- 6606 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Cooperativas de crédito: qué es una cooperativa de crédito? Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 19, 8 p. Aug. 1947. 275.29 P962F
- 6607 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Crédito. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 24, 5 p. Dec. 1947. 275.29 P962F
- Cooperative credit.
- 6608 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Crédito. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 24, ed. 2, 9 p. Apr. 1948. 275.29 P962
- 6609 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Educación. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 22, 5 p. Oct. 1947. 275.29 P962F
- Cooperative credit.
- 6610 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. La junta de directores. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 29, 5 p. Feb. 1948. 275.29 P962
- 6611 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Por qué no debe faltar su cooperativa. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 17, 2 p. June 1947. 275.29 P962F
- 6612 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Por qué son tan baratos los préstamos de una cooperativa de crédito? Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 15, 2 p. Feb. 1947. 275.29 P962F
- 6613 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. A sus órdenes! Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 18, ed. 2, 6 p. Jan. 1948. 275.29 P962
- 6614 RUEDA VARGAS, T. El crédito campesino. Rev. Agr. y Ganad. 10(107): 23. Aug./Sept. 1948. 9.4 R327
- Colombia.
- 6615 RUHLMAN, G. J., COOK, L. L., and HASSENMILLER, C. N. Customers of country banks served through city correspondents. Bankers Monthly 65 (10): 5-6. Oct. 1948. 284.8 B223
- 6616 SEEDORF, W. Die leihe in der landwirtschaft. Beitr. z. Agrarwiss. 2: 3-11. 1948. 18 B392
- 6617 SEVERSON, H. Kentucky bankers are farm minded. Banking 41(4): 61, 114-115. Oct. 1948. 284.8 Am3
- 6618 TRIVEDI, R. N. Long-term rural credit. Bombay Co-op. Q. 30: 224-239. Apr. 1947. 280.28 B63
- 6619 UHLIRS, J. Die Landwirtschaftskrankenkasse für Niederösterreich. Landarbeiter Arch. 3: 185-195. June 1948. 283.8 L23
- 6620 U. S. FARM CREDIT ADMIN. Chart and description of accounts for Federal land banks. Rev. Washington, 1948. 184 p. 1.955 A2C38
- 6621 U. S. FARM CREDIT ADMIN. Manual for credit examinations of production credit associations. Washington, 1948. 16 p. 1.955 P2M31
- 6622 VANNINI, A. Agrarian credit. (In Italian.) Terra [Firenze] 59(28): 2. July 11, 1948. 16 T274
- Income
- 6623 COLLISON, C. F. Wealth Belt cash farm income soars to smashing record. Com. West 96(14): 11. Oct. 2, 1948. 286.8 C733
- 6624 LATTIMER, J. E. A new phase in eastern farming. Macdonald Col. J. 8(12): 6-7. Aug. 1948. 101 M144
- Cash income and price in Canada.
- 6625 WALL, N. J. Agricultural assets up; farmers' real income down. Agr. Situation 32(9): 10-11. Sept. 1948. 1 Ec7Ag
- Inflation
- 6626 STREICHER, E. Haltet den dieb! Württemb. Wchnbl. f. Landw. 115: 230. Aug. 28, 1948. 18 W96
- Inflation.
- Also in Bad. Landw. Wchnbl. 3: 124-125. Aug. 28, 1948. 18 B142
- 6627 TEMPLE, A. H. After inflation, what? Meat 29: 454-456. Oct. 1948. 286.85 M464
- Insurance
- 6628 ANDERSON, A. E. Coverages. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 281-283. 1947. 284.69 N19
- Farm fire insurance.
- 6629 ANDERSON, A. E. Operation of mutual companies farm mutual plan. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 583-586. 1947. 284.69 N19
- 6630 BAGUÉ, J. Informe alrededor de los logros de la Administración de Seguridad Agrícola en la Región XIII. Almanaque Agr. de Puerto Rico 1947: 157-193. 8 AL62
- 6631 BANKS, H. A. Extended coverage underwriting. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 413-415. 1947. 284.69 N19
- 6632 BIDDLE, C. J. Coverages. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 283-287. 1947. 284.69 N19
- Farm fire insurance.
- 6633 BOTTS, R. R. Objectives of farm mutuals. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 448-456. 1947. 284.69 N19
- 6634 BOUFFARD, and BRETTE. La mutualité agricole en Gironde. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 427-435. 1948. 280.29 C761929



- 6635 BURGOS BOEZO, L. Seguros sociales en el campo. Congreso Sindical de la Tierra. Estudios y Conclusiones 1948: 139-144. 281.9 C7664 Spain.
- 6636 CAMPBELL, C. V. Reinsurance problems. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 480-483. 1947. 284.69 N19
- 6637 COOPER, H. P., JR. Mutual service. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 415-419. 1947. 284.69 N19
- 6638 DAVIS, J. I. The agent and loss reporting and adjusting. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 361-365. 1947. 284.69 N19  
Windstorm insurance.
- 6639 DODD, H. Underwriting matters. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 380-382. 1947. 284.69 N19  
Windstorm insurance.
- 6640 DORMAN, M. A. Amounts of insurance. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 266-269. 1947. 284.69 N19  
Farm fire insurance.
- 6641 DORMANN, La sécurité sociale en agriculture. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 351-366. 1948. 280.29 C761929
- 6642 DULIN, A. Une grave problème a résoudre: le financement de la sécurité sociale en agriculture. Monit. Agr. 1(24): 3. June 27, 1948. 14 M744 France.
- 6643 FISK, H. K. Amounts of insurance. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 264-266. 1947. 284.69 N19  
Farm fire insurance.
- 6644 FISK, H. K. Loss prevention matters. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 439-442. 1947. 284.69 N19
- 6645 FUNDERBURK, C. B. Insurance forms. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 272-274. 1947. 284.69 N19  
Farm fire insurance.
- 6646 GHARRETT, G. Selling mutual insurance. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 405-410. 1947. 284.69 N19
- 6647 GIESE, H. Research work in mutual windstorm insurance. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 351-361. 1947. 284.69 N19
- 6648 GOODWIN, R. O. Amounts of insurance. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 262-264. 1947. 284.69 N19  
Farm fire insurance.
- 6649 GROSS, H. L. Present-day problems. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 391-402. 1947. 284.69 N19  
Windstorm insurance.
- 6650 HAASE, G. Some aspects of the life insurance experience of Saskatchewan farmers. Econ. Annal. 18: 68-71. Aug. 1948. 281.8 Ec72
- 6651 HOSTETTER, H. P. Fire underwriting. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 410-413. 1947. 284.69 N19
- 6652 HOSTETTER, H. P. Opportunities for underwriting in the farm mutuals. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 542-545. 1947. 284.69 N19
- 6653 HURST, O. E. Loss adjustments. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 290-298. 1947. 284.69 N19  
Farm fire insurance.
- 6654 JAMES, W. T., JR. Policy Forms. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 274-278. 1947. 284.69 N19  
Farm fire insurance.
- 6655 KRAUTER, P. Looking ahead. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 403-405. 1947. 284.69 N19
- 6656 KUTISH, F. A., and SIMMONS, D. Life insurance for the farm family. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 3(3): 8-10. Sept. 1948. 275.28 Io94
- 6657 LAMOUR, P. L'action en faveur des victimes de calamités agricoles. Libération Paysanne 181: 4. Sept. 16, 1948. 14 L61 France.
- 6658 LOPEZ-ARANDA, A. E. Los beneficios del subsidio de vejez a los trabajadores agropecuarios. Agricultura [Madrid] 17: 311. July 1948. 15 Ag84
- 6659 LUND, O. Hail insurance. (In Norwegian.) Norsk Hagetidend 64: 165-166. Sept. 1/15, 1948. 80 N81
- 6660 MCDONALD, J. F. Pensions for poultrymen; poultrymen can now offer employees a pension plan tailor-made for farm help. Everybody's Poultry Mag. 55 i. e. 53(10): 18-19. Nov. 1948. 47.8 F213P
- 6661 MCELWAIN, C. S. Today's problems. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 371-374. 1947. 284.69 N19  
Windstorm insurance.
- 6662 MILLER, G. E. Underwriting matters. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 376-378. 1947. 284.69 N19  
Windstorm insurance.
- 6663 MITCHELL, S. D. Maintaining low and equitable cost for all policyholders. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 374-375. 1947. 284.69 N19  
Windstorm insurance.
- 6664 MOREAU, P. Les calamités agricoles. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 319-329. 1948. 280.29 C761929 Insurance.
- 6665 MORGAN, M. Hail underwriting. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 422-427. 1947. 284.69 N19
- 6666 MORROW, E. M. Loss prevention matters. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 442-444. 1947. 284.69 N19
- 6667 MYER, E. H. Underwriting windstorm. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 419-422. 1947. 284.69 N19
- 6668 PERRY, T. K. Loss adjustments. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 288-290. 1947. 284.69 N19  
Farm fire insurance.
- 6669 PIGEAUD, La mutualité agricole en Charentes et en Poitou. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 411-425. 1948. 280.29 C761929
- 6670 PILATI, G. The grave situation of unified contributions. (In Italian.) Gior. di Agr. 58: 236. Sept. 5, 1948. 16 It1G
- 6671 POWERS, H. Loss matters. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 427-430. 1947. 284.69 N19
- 6672 RIBES, La mutualité agricole en Afrique du Nord. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 339-348. 1948. 280.29 C761929
- 6673 ROLSTON, J. H. Our problems and experiences. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 460-462. 1947. 284.69 N19
- 6674 RUTLEDGE, C. P. Hail loss matters. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 433-439. 1947. 284.69 N19
- 6675 RUTLEDGE, M. The blanket policy. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 312-322. 1947. 284.69 N19
- 6676 RUTLEDGE, P. I. Opportunities for service and cooperation. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 337-350. 1947. 284.69 N19  
In hail insurance.
- 6677 STAPEL, J. C. Underwriting matters. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 378-380. 1947. 284.69 N19  
Windstorm insurance.
- 6678 TRAMMELL, L. M. Coverages. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 278-281. 1947. 284.69 N19  
Farm fire insurance.
- 6679 TREMIER, W. Loss adjustments. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 287-288. 1947. 284.69 N19  
Farm fire insurance.
- 6680 TSANEV, A. Old-age insurance of the Bulgarian farmers. (In Russian.) Interagra 2: 207-211. 1948. 28 In825
- 6681 U. S. FEDERAL CROP INSURANCE CORPORATION. Federal crop insurance on summerfallow wheat in Kit Carson County, Colorado. Washington? 1948? 4 p. 1.952 F3143
- 6682 U. S. FEDERAL CROP INSURANCE CORPORATION. Federal crop insurance on summerfallow wheat in Sherman County, Kansas. Washington? 1948? 4 p. 1.952 F3142
- 6683 U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 loss adjustment manual for tobacco. Washington? 1948. 12 p. 1.952 L893  
Tentative.



- 6684 VIMEUX, J. Lutte contre les maladies contagieuses du bétail et la mutualité agricole. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 384-394. 1948. 280.29 C761929
- 6685 WARNER, C. E. Field problems. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 476-480. 1947. 284.69 N19
- 6686 WATKINS, G. Fire loss and miscellaneous matters. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 430-433. 1947. 284.69 N19
- 6687 WATKINS, G. Reinsurance problems and experience. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(2): 483-489. 1947. 284.69 N19
- 6688 WHITE, M. A. Policy forms. Natl. Assoc. Mutual Ins. Co. Proc. & Papers 51(1): 269-272. 1947. 284.69 N19
- Farm fire insurance.
- Taxation
- 6689 BECKERICH, A. L'impôt sur les salaires des ouvriers agricoles. Comment opérer les retenues à la source avec les nouveaux barèmes de l'administration. Agr. Prat. 112: 280-281. Aug. 1948. 14 J82
- France.
- 6690 CROCKETT, S. L. Farm property taxes up again; take 96 cents per \$100. Agr. Situation 32(9): 5-6. Sept. 1948. 1 Ec7Ag
- 6691 HAFSTROM, G. Inheritance tax and soçager. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(13): 1, 12. Mar. 29, 1947. 11 J762
- 6692 HALL, I. F. Farmers' 1948 income tax. Hoard's Dairyman 93: 766. Oct. 25, 1948. 44.8 H65
- 6693 HART, S. H., and EMBREE, W. D., JR. Livestock taxes under forced sale. Amer. Cattle Prod. 30(4): 12-13, 38-39. Sept. 1948. 49 P94
- Also in Mont. Stockgrower 20 (9): 31-34. Sept. 15, 1948. 49 M76
- 6694 HASKELL, C. H. The oleomargarine question. Canad. Dairy & Ice Cream J. 27(9): 126-127. Sept. 1948. 44.8 C162
- Taxation.
- 6695 LASSER, J. K. The farmer and his income tax. Natl. Co. Agent 4(10): 14-15, 34-35. Oct. 1948. 275.28 N213
- 6696 NATIONAL ASSOCIATION OF COOPERATIVES. Ohio farmers hear radio debate on co-op taxes. Chicago, 1947. 10 p. 280.29 N214
- 6697 PASSMANN, Die neue einkommensteuer [Germany]. Landw. Wchnbl. 138: 154. July 17, 1948. 18 L2338
- 6698 POSTLETHWAITE, J. L. Rating of land values. Valuer 10: 141-144. July 1, 1948. 282.8 V24
- Great Britain.
- 6699 ROGGE. Zuckersteuer hemmt erzeugungssteigerung. Neue Mitt. f. die Landw. 3: 303. Oct. 5, 1948. 18 N39
- Germany.
- 6700 SCHIETHART, L. J. Enterprise taxation. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 59: 335-344. Aug. 1948. 12 N282
- In agriculture.
- 6701 STANLEY, C. W. N. Farmers and income tax. Estate Mag. 48: 338-339. Oct. 1948. 10 Es8
- Great Britain.
- 6702 WILSON, D. N. Income taxes will be less; how the new law affects farmers and ranchers. Mont. Farmer-Stockman 36(3): 9, 16. Oct. 1, 1948. 6 M764
- AGRICULTURAL LABOR AND WAGES
- 6703 ARAN, S. El vaquero montañés. Cult. Mod. 31: 283-284. Aug. 1948. 15 C89
- In Santander, Spain.
- 6704 BARRAUD, E. M. The labour problem on British dairy farms. Interagra 2: 228-231. 1948. 28 In825
- 6705 BUOSI, E. The milkers' strike. (In Italian.) Agricoltore [Milano] (n. s.) 29(32/33): 1-2. Aug. 7/14, 1948. 16 Ag862
- 6706 CANNON, W. Y. More and better labor houses attract and hold better labor. U & I Cult. 8(2): 9. Sept. 1948. 66.8 V12
- 6707 CONKLIN, H. E. Changes in the employment of rural people in Chemung county, 1942-46. N. Y. Agr. Col. Farm Econ. 163: 4221-4222. Sept. 1948. 280.8 C812
- 6708 EHNROT, B. Studies on labour for sugar beet cultivation. (In Swedish.) Socker 4: 23-90. Mar. 1948. 65.8 Sol
- English summary.
- 6709 ENGEL, S. A. Use good work methods. Minn. U. Agr. Farm Business Notes 307: 1-2. Aug. 30, 1948. 275.29 M663
- 6710 GINGLES, R. Doing chores the easy way. Hoard's Dairyman 93: 772-773. Oct. 25, 1948. 44.8 H65
- 6711 GREBÄCK, E. Agriculture and woman labor. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige 18(34): 3. Aug. 21, 1948. 11 J762
- 6712 HENRIKSSON, A. How to improve working conditions for dairy workers. (In Swedish.) Ladugården 1948: 76-78. May 1948. 44.8 L12
- 6713 HENRIKSSON, A. How to improve working conditions in dairy industry. (In Swedish.) Ladugården 1947: 142-144. Dec. 1947. 44.8 L12
- 6714 HENRIKSSON, A. Some observations on education of foremen in the livestock industry. (In Swedish.) Ladugården 1948: 13-14. Jan. 1948. 44.8 L12
- 6715 HOPKINS, D. P. Best way to use farm labour. Dairy Farmer [Ipswich] 21(10): 18. Oct. 1948. 44.8 D1414
- 6716 HURD, T. N. Factors affecting the getting and keeping of regular hired workers. N. Y. Agr. Col. Farm Econ. 163: 4223-4224. Sept. 1948. 280.8 C812
- 6717 HURD, T. N. Getting along with the hired man. Hoard's Dairyman 93: 607, 611. Aug. 25, 1948. 44.8 H65
- 6718 LACHENMAIER, F. Am grabe des landarbeiters. Neue Mitt. f. die Landw. 3: 148-149. May 21, 1948. 18 N39
- Germany.
- 6719 LAURENT, A. Quelle est la juridiction compétente en matière de salaires agricoles? B. Agr. de la Seine 4(67): 1. July 5, 1948. 14 B876
- 6720 OTTO, W. C. Arbeitsmarktlage in der landwirtschaft. Landw. Wchnbl. 138: 213. Aug. 21, 1948. 18 L2338
- Germany.
- 6721 PADBERG, K. Die unterbewertung der landarbeit. Neue Mitt. f. die Landw. 3: 175-177. June 21, 1948. 18 N39
- Germany.
- 6722 REDONDO GÓMEZ, J. Paro obrero en la agricultura. Congreso Sindical de la Tierra. Estudios y Conclusiones 1948: 161-177. 281.9 C7664
- 6723 RONCHI, V. The new strike. (In Italian.) Gior. di Agr. 58: 227. Aug. 29, 1948. 16 It1G
- Italian agricultural workers.
- 6724 SABADOR ROLDAN, A. Encuadramiento del obrero agrícola en las hermandades. Congreso Sindical de la Tierra. Estudios y Conclusiones 1948: 131-137. 281.9 C7664
- Spain.
- 6725 SCHUBERT, A. Gedanken zur landarbeiterfrage. Neue Mitt. f. die Landw. 3: 198-199. July 5, 1948. 18 N39
- Germany.
- 6726 SCHWEIZERISCHE BAUERNSEKRETARIAT. Die barlöhne in der landwirtschaft im sommer 1948. Grüne 76: 861-863. Aug. 1948. 17 Sch9
- 6727 SMITH, H. D., HAMILTON, A. B., and DEVAULT, S. H. Labor utilization in dairy buildings. Md. Agr. Expt. Sta. B. A46, p. 71-104. Aug. 1947. 100 M365
- 6728 STREET, A. G. The higher the fewer. Farmers Weekly [London] 29(16): 37. Oct. 15, 1948. 10 F2226
- Farm labor wages.
- 6729 TABLANTE, N. B. Labor requirements for potatoes. N. Y. Agr. Col. Farm Econ. 163: 4220. Sept. 1948. 280.8 C812
- 6730 TOLMAN, B. Labor must be treated right to hold it. U & I Cult. 8(2): 5. Sept. 1948. 66.8 V12
- Sugar beets.
- 6731 U. S. SELECTIVE SERV. SYSTEM. Selective service and victory; the fourth report. Washington, 1948. 709 p. 173 Se2Re
- Includes agricultural deferments.
- 6732 WILKINS, C. S. Labor requirements for peanut production. Peanut J. and Nut World. 27(12): 33-34. Oct. 1948. 77.8 P313



6733 WOODSON, H. P. Combine crew. Dakota Farmer 68(17): 18-19. Sept. 4, 1948. 6 D14

AGRICULTURE - SITUATION, POLICIES,  
AND PROGRAMS

6734 ALVARE, M. DE. La política agraria: hechos y proyecciones. Rev. Nac. de Cien. Polit.-Econ.-Sociales 7(82): 7-9. Sept. 1948. 280.8 R3295 Cuba.

6735 AMBROSI, M. Agricultural heritage left by the Italians in Istria. (In Italian.) Riv. di Econ. Agr. 3: 281-284. 1948. 281.8 R52 English summary.

6736 THE ANGLO-PALESTINE year book, 1947-1948. London, 1948. 368 p. 280.8 An4 Includes agriculture.

6737 BABCOCK, H. E. Today's farming sets tomorrow's table. Meat 29: 442-444. Oct. 1948. 286.85 M464

6738 BALLARD, F. L. Log checks the charts. Ext. Serv. Rev. 19: 88-89. Oct./Nov. 1948. 1 Ex892Ex Agricultural situation in Oregon compared with Extension recommendations of 25 years ago.

6739 BEAURAIN, E. Rehabilitation of French agriculture. (In Swedish.) Lantmannen 32: 627-628. Sept. 18, 1948. 1f L234

6740 BELL, A. F. The development of agricultural resources. Austral. Inst. Agr. Sci. J. 14: 51-52. June 1948. 23 Au74

6741 BOUDOL, A. Une région transformée par le progrès agricole, La Dombes. Potasse 22: 145-147. Sept. 1948. 57.8 P84

6742 BRANNAN, C. F. Agriculture's new day. Food Indus. 20: 1424-1425. Oct. 1948. 389.8 F737

6743 BRUCE, W. H. With the Rural Bank's N.S.W. progressive farmer team. Poultry Farmer [Sydney] 16 (6): 18-20, 22-24. (To be cont.) Aug. 7, 1948. 280.28 Or32

Observations on the United States.

6744 BRUSH, J. E. Divided India. J. Geog. 47: 209-219. Sept. 1948. 278.8 J82 Includes agriculture.

6745 CARROLL, L. P. Farmers anxious about future. Family Herald & Weekly Star 79(42): 15, 17. Oct. 20, 1948. 7 F21

6746 CASA PACHECO, MARQUES DE. Hacia el aumento de la producción agrícola. Cult. Mod. 31: 203-204. June 1948. 15 C89 Spain.

6747 CHAMBLIN, W., Jr. What's ahead in legislation? Meat 29: 444-448. Oct. 1948. 286.85 M464

6748 CHIAO, Y. S. Twenty years of agricultural administration in China. (In Chinese.) Monthly Farmers' Bank China 9(4): 42-53. Apr. 1948. 281.9 F225M English summary.

6749 CHINA. MINISTRY OF AGRICULTURE AND FORESTRY. Progress report on agricultural work in China, 1947. China. Min. Agr. and Forestry. Misc. P. 1, 86 p. Apr. 1948. 22.5 C4412M

6750 COISIER, B. Comment se transforme l'agriculture d'une région. Agr. Prat. 112: 270-272. Aug. 1948. 14 J82 Sologne, France.

6751 CONFEDERAZIONE GENERALE DELL'INDUSTRIA ITALIANA. Annuario 1948. Roma, 1948. 1187 p. 280.9 C7613

Includes agriculture.

6752 CONSERVATIVE AND UNIONIST PARTY ORGANISATION. The Conservative Party's agricultural charter. London, 1947. 8 p. 281.171 C76C

6753 COOK, F. T. Record harvest is anticipated by Union of South Africa this year. Foreign Trade 4: 450-452. Sept. 4, 1948. 286.8 C162

6754 DAULATRAM, S. J. Problems of Indian agriculture. Indian Farming 9: 93-95. Mar. 1948. 22 In283

6755 DAWSON, O. L. Progress report on agricultural improvement measures in China. China. Min. Agr. and Forestry. Misc. P. 1: iii-vi. Apr. 1948. 22.5 C4412M

6756 DERTEANO URRUTIA, C. El inventario del potencial económico de la Nación [Peru]. Vida Agr. 25: 707-713. Aug. 1948. 9.8 V66 Agricultural.

6757 ECUADOR. MINISTERIO DE ECONOMÍA. Plan de fomento de la producción. Quito, Tall. Graf. Nacionales, 1948. 143 p. 280.165 Ec9

6758 ESCALANTE M., J. M. Problemas agrícolas cruceños. Campo [La Paz] 2(14): 39-40. June 1948. 9.1 C15

6759 EUROPEAN recovery. III. The role of agriculture. Economist [London] 155: 634-636. Oct. 16, 1948. 286.8 Ec7

6760 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Report of the FAO mission for Poland. Washington, 1948. 159 p. 281.177 F73R

6761 FRANCE. DIRECTION DE LA DOCUMENTATION. L'intervention de l'état dans l'économie de la Turquie. France. Dir. de la Doc. Notes Doc. et Etudes 988, 23 p. Sept. 8, 1948. 280.9 F843

Includes State intervention in agriculture.

6762 FRANCE. DIRECTION DE LA DOCUMENTATION. L'union sud-africaine. 2. Évolution économique France. Dir. de la Doc. Notes Doc. et Etudes 990, 19 p. Sept. 13, 1948. 280.9 F843

Includes a chapter on agriculture.

6763 FREI, H. Als praktikant in Dänemark. Grüne 76: 945-946. Sept. 3, 1948. 17 Sch9

6764 FUENTES IRUZOQUI, M. El campo español y la economía nacional. Madrid, 1947. 196 p. 281.176 F95

6765 FUSSELL, G. E. The old English farming books from Fitzherbert to Tull, 1523 to 1730. London, Lockwood, 1947. 141 p. 241 F98

6766 GARON, L. P. Le voyage de liaison rurale: le Manitoba français. Terre de Chez Nous 21(1): 10, 23. Sept. 29, 1948. 7 T27

Describes agriculture.

6767 HÅKANSSON, R. Swedish agricultural conditions. IV. (In Danish.) Dansk Landbr. 67: 340. Sept. 9, 1948. 280.28 V91

6768 HANNAH, H. W. Law on the farm. Ill. Dept. Agr. Ann. Rpt. 30: 44-50. 1947. 2 IL6R

6769 HANNAH, H. W. Law on the farm, a discussion of legal problems which arise in the business of farming. New York, Macmillan, 1948. 399 p. 30.5 H19

6770 HELLINGA, F. De cultuurtechniek als samenhangend geheel [Culture technique as a continuous whole]. Wageningen, Veenman, 1947? 16 p. 33.15 H362

6771 HERMANDADES SINDICALES DE LABORES Y GANADEROS. ASAMBLEA NACIONAL, 2, MADRID, 1947. II Asamblea Nacional de Hermandades Sindicales de Labradores y Ganaderos. Ponencia I: incremento de la producción agrícola. Madrid, 1947. 54 p. 281.176 H42

Agricultural policy.

6772 HERNÁNDEZ FIGUEROA, J. R. Más agricultores y menos políticos. Tierra Libre 12(10): 15-16. Sept. 1948. 8 T443

Cuba.

6773 HILL, W. E. China's hungry millions; the contrast between Chinese and Canadian agriculture. Canad. Countryman 37(18): 5, 32-33. Sept. 4, 1948. 7 C833

6774 HORRING, J. Future agricultural policy in relation to Benelux. (In Friesian.) Friesch Landbouwblad 45(37): 7-8. Sept. 10, 1948. 12 F91

6775 HSIEH, C. P. Program of China's agricultural services. China. Min. Agr. and Forestry. Misc. P. 1: 26-28. Apr. 1948. 22.5 C4412M

6776 HURST, F. J. A fast-changing agriculture in East Carroll Parish, [Louisiana]. Prog. Farmer, Miss.-Ark.-La. Ed. 63(10): 16, 132-133, 135. Oct. 1948. 6 So81

6777 JEANSON, P. L'actuelle situation paysanne. Monit. Agr. 1(25): 13. (Cont.) July 4, 1948. 14 M744 France.

6778 JOHANSEN, C. Denmark's national budget for the year 1948. (In Danish.) Tidsskr. for Landøkonomi 1948: 387-394. Aug. 1948. 11 T43

6779 KELLER, E. R., and RINDERKNECHT, R. K. Aus der landwirtschaft anderer staaten: bei den Schweizern in New Glarus. Grüne 76: 933-937. Sept. 3, 1948. 17 Sch9

6780 KELLEY, R. R. Labor, agriculture and industry. Natl. Co. Agent 4(10): 13, 32. Oct. 1948. 275.28 N213



- 6781 THE KENTUCKY story. Mfrs. Rec. 117 (11): 69-116. Nov. 1948. 297.8 M31  
Agriculture, p. 85-89; Forest products, p. 90-92.
- 6782 KILDEE, H. H. The Corn Belt's major contributions to the economic and nutritional welfare of our nation. Meat 29: 437-439. Oct. 1948. 286.85 M464
- 6783 KIRKPATRICK, W. G. English agriculture. Mich. Farmer 210: 152-155. Sept. 4, 1948. 6 M58  
Second of a series.
- 6784 KIRKPATRICK, W. G. From Belgium into Germany. Mich. Farmer 210: 224-226. (Cont.) Oct. 2, 1948. 6 M58  
Includes agriculture in Belgium and Luxembourg.
- 6785 KUO, M. H. China's agricultural resources. (In Chinese.) Monthly Farmers' Bank China 9(2): 1-9. Feb. 1948. 281.9 F225M  
English summary.
- 6786 LAFOREST, G. Sur la nouvelle politique agricole [France]. Unité Paysanne 3(147): 2. Aug. 28, 1948. 14 Jn3
- 6787 LIN, S. N. China's agricultural calamities and their remedies. (In Chinese.) Monthly Farmers' Bank China 9(2): 10-19. Feb. 1948. 281.9 F225M  
English summary.
- 6788 LJUNGMAN, D. Scottish travel. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(25/26): 5. June 21, 1947. 11 J762  
Chiefly on agriculture in Scotland.
- 6789 LOWRIE, A. W. A digest of the Agricultural Act of 1948. Nulaid News 26(6): 15-16. Oct. 1948. 47.8 N917
- 6790 MA, P. C. Agricultural rehabilitation in China. (Excerpt.) China. Min. Agr. and Forestry. Misc. P. 1: 16-19. Apr. 1948. 22.5 C4412M
- 6791 MAERZ. Der "Gruschwitz-plan" und die bayerische Landwirtschaft. Fortschr. in der Landw. 1: 35-36. (To be cont.) Aug. 14, 1948. 18 F773
- 6792 MAIER-BODE, F. W. Grundlagen dänischer Landwirtschaft. Neue Mitt. f. die Landw. 3: 315. Oct. 5, 1948. 18 N39
- 6793 MARESCALCHI, A. Europe is not self-sufficient in agricultural products. (In Italian.) Ital. Vinic. ed Agr. 38: 97-99. May 15, 1948. 95.8 It1
- 6794 MARJANI, S. Bref aperçu de l'agriculture albanaise avant et après la libération nationale. Interagra 2: 137-141. 1948. 28 In825
- 6795 MAYRHOFER, W. Landwirtschaftliches Wiederaufbaugesetz. Kärntner Bauer 98: 285-286. Sept. 1, 1948. 19 K14
- 6796 MERCER, R. What's ahead? Mont. Farmer-Stockman 36(4): 1, 4. Oct. 15, 1948. 6 M764
- 6797 MIDDLE AMERICA INFORMATION BUREAU. Middle America: a digest almanac of its eleven republics. New York, 1948? 28 p. 280.16 M58Mid  
Brief data on agriculture included.
- 6798 MILLER-STIRLING, J. D. B. Danish agriculture. Field 192: 299. Sept. 11, 1948. 10 F45
- 6799 MONTY, T. J. Farming constitutes the basis of national economy in Greece. Foreign Trade 4: 601-604. Sept. 25, 1948. 286.8 C162
- 6800 MORIARTY, J. H. Needed reference services for American agriculture. n. p., 1948. 10 p. 241 M79
- 6801 MOULIN, G. L'agriculture belge devant les problèmes d'après guerre. Interagra 2: 145-157. 1948. 28 In825
- 6802 MUKHERJEE, J. N. Some scientific and practical aspects of Indian agriculture. Indian Farming 9: 80-82. Feb. 1948. 22 In283
- 6803 MULLETT, H. A. The progressive development of Victorian agriculture. Victoria. Dept. Agr. J. 46: 337-344. Aug. 1948. 23 V66J
- 6804 NORTH CAROLINA UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. A farm program for North Carolina. Raleigh? 1948. 43 p. 275.2 N81Far
- 6805 NORWAY. LANDBRUKSDIREKTØREN. Report on Government efforts to aid agriculture in the year 1942. Oslo, 1947. 103 p. 11 C46
- 6806 PALAZZO, G. A. Istituzioni di diritto agrario e legislazione rurale [Institutions of agrarian law and rural legislation]. Ed. 3, rev. and enl. to Dec. 31, 1947. Milano, Ambrosiana, 1948. 383 p. 30.5 P17
- 6807 PALMER, F. H. Unfavourable climatic conditions reduced Swedish farm crops. Foreign Trade 4: 568-569. Sept. 18, 1948. 286.8 C162
- 6808 PARDO ARMAS, N. La excelentísima diputación provincial de La Coruña realiza una intensa labor agropecuaria y de repoblación forestal. Siembra 1948(7): 48-49. July 1948. 15 Si1
- 6809 PFLIMLIN, L. L'appel aux agriculteurs de France. J. de la France Agr. 4(165): 1-2. Aug. 27/Sept. 2, 1948. 14 J829
- 6810 PILLIET, G., and PILLIET, Y. Inventaire économique de la France (French year book), 1948. Paris, 1948. 417 p. 260 P64  
Contains chapters on agriculture and trade.
- 6811 PIPER, J. Impressions from visits to farmers in Western Europe. (In Danish.) Tolvmandsbladet 20: 191-193. Sept. 1948. 11 T58
- 6812 POL, L. Situation of agriculture and prospects for its development in Poland. (In Russian.) Interagra 2: 115-133. 1948. 28 In825
- 6813 PONTAILLER, S. Le Congrès des Industries Agricoles. Potasse 22: 153-155. Sept. 1948. 57.8 P84
- 6814 PUEBLA, A. DE LA. Agricultura y ganadería. Agr. Costarricense 6: 112-113. May/June 1948. 8 Ag895  
Great Britain.
- 6815 RESOLUTION de la II-ème Conférence des travailleurs d'agriculture et de sylviculture des pays Slaves et des autres pays de la démocratie populaire qui eut lieu à Prague du 3 au 9 mai 1948. (In Russian.) Interagra 2: 89-96. 1948. 28 In825  
French summary.
- 6816 RHODESIA, NORTHERN. Ten-year development plan for Northern Rhodesia, as approved by Legislative Council on 11th February, 1947. Lusaka, 1948. 88 p. 280.19 N81
- 6817 RIBÉREAU, F. L'agriculture, première industrie nationale. Colon. Franç. de Tunisie 58(2064): 1. Sept. 11, 1948. 24 C712
- 6818 ROBERTS, W. Rural affairs in Parliament. Village 3(3): 20-21. Autumn, 1948. 281.28 V71
- 6819 ROUVEROUX, P. Pour une évolution plus rapide de l'agriculture musulmane. Rev. Agr. de l'Afrique du Nord 46: 383-384. July 30, 1948. 80 R326
- 6820 RUTHERFORD, R. S. G. The impact of the recent war upon British agriculture. Austral. Q. 19(3): 21-38. Sept. 1947. 280.8 Au7
- 6821 SALAS VILLAGOMEZ, M. La necesidad de planificar. Rev. de Econ. 11(9): 42-44. Sept. 15, 1948. 280.8 R3293  
Includes agricultural planning.
- 6822 SĂVULESCU, T. La collaboration des pays slaves et des pays de la démocratie populaire. Interagra 2: 78-80. 1948. 28 In825  
Includes agricultural policies in Rumania.
- 6823 SCHIETHART, L. J. The proposed new agricultural law. I. (In Dutch.) Econ.-Statist. Ber. 33: 766-768. Sept. 29, 1948. 280.8 Ec722  
English summary, p. 763.  
Netherlands.
- 6824 SCHUSTER, E. Umstrittene deutsche agrarpolitik. Württemb. Wchnbl. f. Landw. 115: 205-206, 213-214, 222. (To be cont.) Aug. 7, 14, 21, 1948. 18 W96
- 6825 SERANDOUR, P. Situation de la paysannerie: apparences et réalités. Monit. Agr. 1(22): 3. June 13, 1948. 14 M744  
France.
- 6826 STETSON, A. E. Vast agricultural wealth. Ill. Dept. Agr. Ann. Rpt. 30: 31-38. 1947. 2 IL6R
- 6827 STONE, R. L. Public utilities take a hand at rural development. Pub. Util. Fortnightly 42: 647-653. Nov. 4, 1948. 280.8 P966  
Agricultural-industrial development.
- 6828 STOOS, H. Neue wege der agrar- und ernährungs politik. Württemb. Wchnbl. f. Landw. 115: 229-230, 237. (To be cont.) Aug. 28, Sept. 4, 1948. 18 W96  
Also in Bad. Landw. Wchnbl. 3: 121-123. Aug. 28, 1948. 18 B142
- 6829 STROHM, J. Too many Italians, too little land. Country Gent. 118(10): 20, 80, 82-86. Oct. 1948. 6 C833  
Agricultural situation in Italy.



6830 SVÄRDSTRÖM, K. F. Soviet and Eastern Europe's agriculture. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 18(40): 5. Oct. 2, 1948. 11 J762

6831 TAUBER, J. The successful conference of agricultural and forestry specialists from the Slavic and popular-democratic countries. (In Russian.) Interagra 2: 83-86. 1948. 28 In825

6832 TOLOV, V. V. The present state and development of the agricultural production in USSR. (In Russian.) Interagra 2: 104-114. 1948. 28 In825

6833 TORRES FILHO, A. E. M. Rural policy. (In Portuguese.) Agronomia [Rio de Janeiro] 7(1): 1-2. Jan./Mar. 1948. 9.2 Ag892

6834 TRUESDELL, H. W. Food and the German farmer. Milit. Govt. J. 1(4): 7-8, 15. Feb. 1948. 33.27 T76

6835 TSO, S. S. One year of agricultural and forestry re-construction. (In Chinese.) Monthly Farmers' Bank China 9(4): 6-10. Apr. 1948. 281.8 F225M English summary.

6836 TURNER, J. English agriculture has key position. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(13): 1, 6. Mar. 29, 1947. 11 J762

6837 UNION DE BANQUES SUISSES. L'Australie. Union de Banques Suisse [B.] 1948(2), 28 p. July 1948. 284.9 Sch92

Includes agriculture.

6838 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Agriculture in Montana. Washington? 1948. 10 p. 1.914 A2Ag83

6839 UNITED STATES-LEBANON AGRICULTURAL MISSION. Report of the United States-Lebanon Agricultural Mission. U. S. Off. Foreign Agr. Relat. I. A. C. Ser. 7, 76 p. Sept. 1948. 1.943 R293

6840 U. S. TARIFF COMMISSION. Agricultural, pastoral, and forest industries in Mexico. Washington, 1948. 84 p. 173 T17Agri

6841 WECTER, D. The age of the great depression, 1929-1941. New York, Macmillan, 1948. 362 p. 277.12 W41

Contains passages on agriculture and farm tenancy.

6842 WICHARZ, M. Probleme der landwirtschaft nach der geldreform. Neue Mitt. f. die Landw. 3: 147-148. May 21, 1948. 18 N39 Germany.

6843 WIEGAND, E. H. Agriculture and food processing in Oregon. Reclam. Era 34: 194-196. Oct. 1948. 156.84 R24

Situation and outlook.

6844 WILCOX, F. R. Farm industries normally exporting large part of output are entitled to aid during period of adjustment. Sunsweet Standard 32(4): 8-10. Sept. 1948. 286.83 Su7

6845 XARUBA BULDÓ, E. Al servicio de la agricultura. Cult. Mod. 31: 286-287. Aug. 1948. 15 C89 Spain.

6846 ZANNONI, I. Italian agriculture and the Marshall Plan. (In Italian.) Cotivatore e Gior. Vinic. Ital. 94: 123-124. July 15, 1948. 16 C72

6847 ZAVALA BUSTOS, J. La agricultura en la zona de Tingo María. Vida Agr. 25: 667, 669-671, 673. (Cont.) Aug. 1948. 9.8 V66

6848 ZITO, F. How the services of agriculture can be reorganized. (In Italian.) Terra [Firenze] 59 (33/34): 1. Aug. 22, 1948. 16 T274

#### Subsidies

6849 BERTHAULT, P. Le problème de la prime à l'hectare de blé. Rev. Agr. de l'Afrique du Nord 46: 439-441. Sept. 3, 1948. 80 R326

6850 LALLOUR, M. A propos de la taxe d'encouragement à la production textile. Mouton 3: 25-26. Mar. 10, 1948. 45.8 M86

6851 MELENDEZ ORTIZ, M. Subsidios agrícolas en Puerto Rico de fondos insulares y federales (1922-1946). Almanaque Agr. de Puerto Rico 1947: 83-141. Ref. 8 AL62

#### COST AND STANDARD OF LIVING

6852 GARCIA SERRANO, E. Elevación del nivel de vida del productor agrícola. Congreso Sindical de la Tierra. Estudios y Conclusiones 1948: 189-195. 281.9 C7664 Spain.

6853 HAMILTON, C. H. Farm living level improves. Res. and Farming. [N. C. Sta.] Prog. Rpt. 7(1): 12-13. July 1948. 100 N81R

6854 TU, S. C. An economic survey of 106 rural households in Chenkung, Yunnan. (In Chinese.) Monthly Farmers' Bank China 9(4): 54-63. Apr. 1948. 281.9 F225M

#### FARM MANAGEMENT AND LAND ECONOMICS

6855 ALABAMA. LEGISLATIVE REFERENCE SERV. Alabama's homestead exemption: should it be enlarged? Montgomery, 1948. 5 p. 282.006 AL1

6856 ALLO, A. V. A Tauranga dairy farm. New Zeal. Dept. Agr. B. 268: 69-76. 1948. 23 N48Bu

6857 ARNOLD, E. H. A Northland hill-country farm. New Zeal. Dept. Agr. B. 268: 5-16. 1948. 23 N48Bu

6858 BAILEY, R. R. The appraisal of a farm operated under the Missouri balanced farming program. Amer. Soc. Farm Mgrs. & Rur. Appraisers. J. 12: 141-146. Oct. 1948. 281.8 Am32

6859 BANFIELD, G. L. A Waikato peat farm. New Zeal. Dept. Agr. B. 268: 39-47. 1948. 23 N48Bu

6860 BAQUE, Z. A l'américaine. Terre d'Oc 30: 263-266. July 1948. 14 Ar5 Farming in Armagnac.

6861 BARRIO, M. DEL. Los "monocultivos" no son convenientes para ningún país. Siembra 1948(6): 14-16. June 1948. 15 Si1

6862 BARTH. Planung und beratung. Neue Mitt. f. die Landw. 3: 274. Sept. 5, 1948. 18 M39

6863 BERNARD, P. Le capital à engager dans une ferme. Monit. Agr. 1(35): 2. Sept. 12, 1948. 14 M744

6864 BERTHAULT, P. Comment allons-nous équilibrer les budgets de nos fermes? Rev. Agr. de l'Afrique du Nord 46: 379-380. July 30, 1948. 80 R326

6865 BLIZZARD, W. L. Qualities of a farm manager. Shorthorn World 33(10): 261-262. Aug. 10, 1948. 43.8 Sh8

6866 BLOHM. Betriebswirtschaftliche fragen der bäuerlichen wirtsch. Deut. Bauerntech. 2(5/6): 3-7. May/June 1948. 58.8 D48

6867 BOOT, V. P. A Poverty Bay hill-country farm. New Zeal. Dept. Agr. B. 268: 84-91. 1948. 23 N48Bu

6868 BRAMES-HALL, C. Starting afresh in the country 3. Countryman [Burford] 38(1): 86-89. Autumn, 1948. 281.28 C832

6869 BREITKREUTZ, H. Die ausbildung des bäuerlichen nachwuchses. Landw. Wchnbl. 138: 201. Aug. 14, 1948. 18 L2338

6870 BUNDY, J. L. State farms prove worth. Ill. Dept. Agr. Ann. Rpt. 30: 153-160. 1947. 2 IL6R

6871 BURCH, J. W. The philosophy of balanced farming. Amer. Soc. Farm Mgrs. & Rur. Appraisers J. 12: 123-126. Oct. 1948. 281.8 Am32

6872 BURCH, J. W. The relation of Missouri's balanced farming program to dairy production. Popkess' Dairyman's J. 35(6): 6, 11. Sept. 1948. 44.8 P142

6873 CABOT, T. D. Visita a varias haciendas centroamericanas. Hacienda 43(10): 46-47. Oct. 1948. 6 H11

6874 CHAMBERLAIN, H. de O. A Halcombe mixed farm. New Zeal. Dept. Agr. B. 268: 107-112. 1948. 23 N48Bu

6875 CHAPMAN, P., and others. Efficient farm management. Atlanta, Smith, 1948. 465 p. Ref. 281.002 C36

W. G. Leith, F. P. King, and L. S. Hardin, joint authors.  
6876 CHUNG, C. M. Comments on the national land administration conference. (In Chinese.) Monthly Farmers' Bank China 9(2): 43-50. Feb. 1948. 281.9 F225M



- 6877 DANIEL, H. A. Flexible patterns for prairie farms. Co-op Grain Q. 6(3): 24-30. Aug. 1948. 280.28 C7898
- 6878 DEERING, F. Re-run challenges enemies of soil. Farmer-Stockman 61(10): 3, 54. Oct. 1948. 6 Ok4
- Oklahoma's new agricultural center which includes a model demonstration farm.
- 6879 DICK, W. F. A Southland dairy farm. New Zeal. Dept. Agr. B. 268: 143-150. 1948. 23 N48Bu
- 6880 DINGWALL, A. R. A Taihape sheep farm. New Zeal. Dept. Agr. B. 268: 92-96. 1948. 23 N48Bu
- 6881 DRIVER, P. N. The co-operative basis of collectivisation in Russia. Bombay Co-op. Q. 30: 213-224. Apr. 1947. 280.28 B63
- 6882 FAITHFUL, W. A Southland Chewings fescue farm. New Zeal. Dept. Agr. B. 268: 151-159. 1948. 23 N48Bu
- 6883 FENDEL, J. Bauerngerichte überwachen die landwirtschaftlichen betriebe. Kurzbriefe f. Ernähr. u. Landw. 8, E VI 1, 2 p. Aug. 1948. 281.8 K96 Germany.
- 6884 FILENI, E. The alliance of agricultural technique and the problems of the day [Italy]. (In Italian.) Mezzogiorno Agr. 4(27): 1. July 4, 1948. 16 M57
- 6885 FRANCIS, D. R. Evaluation of a balanced farm program. Amer. Soc. Farm Mgrs. & Rur. Appraisers. J. 12: 127-140. Oct. 1948. 281.8 Am32
- 6886 GAINES, J. P. A study of major and minor factors affecting management and returns on family farms in the sugar cane area of Louisiana, 1946. La. Agr. Expt Sta. Mimeog. C. 86, 34 p. Sept. 1948. 100 L935
- 6887 GANAHL, M. Der termin, eine warnung an alle bauern. Salzburg. Bauer 3(34): 4. Aug. 19, 1948. 19 Sa3
- 6888 GARDINER, C. Thrasher farm "face lifting" model of conservation methods. East. Breeder 10(5): 19-20. Oct. 1948. 49 V81
- 6889 GILLING, T. The rebirth of 10,000 derelict American farms. Farmers Weekly [London] 29(11): 38-39. Sept. 10, 1948. 10 F2226
- 6890 GILLING, T. What can America teach us? Farmers Weekly [London] 29(8): 34-35, 37. Aug. 20, 1948. 10 F2226
- Farming practices.
- 6891 GLEMBOTSKIY, I. A. L. Spravochnik zavedushchego ovtshevodcheskoj i kozovodcheskoj fermoj [Handbook for the manager of a sheep and goat farm]. Moskva, Sel'khozgiz, 1947. 535 p. 45 G48S
- 6892 GREEN, J. Australian tour. Gt. Brit. Min. Agr. Agriculture 55: 255-259. Sept. 1948. 10 G79J
- Farming in Australia.
- 6893 GREIFF, F. Betriebswirtschaftliche forderungen an das neubauerngehöft! Deut. Bauerntech. 2 (5/6): 7-9. May/June 1948. 58.8 D48
- 6894 HADFIELD, W. V. A Pukekohe small holding. New Zeal. Dept. Agr. B. 268: 29-38. 1948. 23 N48Bu
- 6895 HALL, H. W. They call it "balanced farming." Nation's Agr. 23(9): 9, 19. Oct. 1948. 280.82 B89
- 6896 HAUSHOFER, H. Der bauernhof - organismus oder mechanismus? Landtechnik 3: 49-50. Feb. 29, 1948. 58.8 L235
- 6897 HENDERSON, R. Ten cows may pay better than twenty; advice on starting a small dairy farm with limited capital. Dairy Farmer [Ipswich] 21(10): 10. Oct. 1948. 44.8 D1414
- 6898 HIGGS, C. Jungle venture in co-op farming. Co-op Grain Q. 6(3): 14-21. Aug. 1948. 280.28 C7898
- 6899 HILL, R. P. A Hawke's Bay coastal sheep station. New Zeal. Dept. Agr. B. 268: 101-106. 1948. 23 N48Bu
- 6900 HILL, R. P. A Heretaunga plains farm. New Zeal. Dept. Agr. B. 268: 97-100. 1948. 23 N48Bu
- 6901 HILTON, J. H. A balanced farm program. Carolina Farmer 3(8): 6-7. Aug. 1948. 6 C223
- 6902 HORTON, D. C. Adaptation of the farm capital structure to uncertainty. Washington? U. S. Bur. Agr. Econ., 1948. 13 p. 1.941 F2Ad1
- 6903 HOUCK, L. H. An industrial innovation--the villageless mill: American Enka employees are factory workers who can live on the farm, thanks to a special work schedule. Mfr. Rec. 117(10): 46-47. Oct. 1948. 297.8 M31
- 6904 HOWELL, H. B. What makes a farm business successful. Iowa State Col. Agr. Ext. Iowa Farm Sci. 3(4): 11-12. Oct. 1948. 275.28 Io84
- 6905 JOHNSON, O. R. Evaluation of the meaning to the investor of the modernization of the American farm. Amer. Soc. Farm Mgrs. & Rur. Appraisers. J. 12: 147-155. Oct. 1948. 281.8 Am32
- 6906 KLOTH, W. Das handwerk in der fortschreitenden entwicklung der technik. Landtechnik 2(5): 2-3. Feb. 28, 1947. 58.8 L235
- 6907 KOCH, H. Wirtschaftsberatung kritisch betrachtet. Württemb. Wchnbl. f. Landw. 115: 174-175. July 10, 1948. 18 W96
- 6908 KOLPAKOV, D. On the advantages of diversified farming. (In Russian.) Kolkhoz. Proizvod. 8(5): 3-7. May 1948. 281.8 K83
- On collective farms in U. S. S. R.
- 6909 LARSEN, H. Farming without livestock. (In Swedish.) Ladugården 1947: 89-90. Sept. 1947. 44.8 L12
- 6910 LATTIMER, J. E. What happened in Quebec. Macdonald Col. J. 9: 4, 6. Sept. 1948. 101 M144
- Changes in farming.
- 6911 MCMILLAN, R. B., and CAMPBELL, K. O. Farm management and elementary agricultural economics Melbourne, 1947. 313 p. (Rur. Training Notes) 281.1992 M22
- 6912 MAIS, H. Faisons des instituteurs compétents en agriculture. J. de la France Agr. 4(165): 1-2. Aug. 27/Sept. 2, 1948. 14 J829
- Advisory services.
- 6913 MAKAROV, M. We are creating a diversified highly-profitable economy. (In Russian.) Kolkhoz. Proizvod. 8(5): 7-8. May 1948. 281.8 K83
- Management of Kul'tivator Collective Farm in Kirov Region.
- 6914 MANTEL, K. National occupation on estates. (In Dutch.) Econ. Weekbl. v. Indonesië 14: 619-620. Aug. 15, 1948. 280.8 E776
- 6915 MATTHEUS, B. Beratung oder geistige förderung der bauern? Neue Mitt. f. die Landw. 3: 181-182. June 21, 1948. 18 N39
- 6916 MATTHEUS, B. Grundsätze für die beratungsarbeit. Neue Mitt. f. die Landw. 3: 308-309. Oct. 5, 1948. 18 N39
- Germany.
- 6917 MAUNY, R. Power company sparks better farming competitions. Elect. World 130(19): 95-96. Nov. 6, 1948. 335.8 EL2
- 6918 MERCER, A. D. A Manukau mixed farm. New Zeal. Dept. Agr. B. 268: 23-28. 1948. 23 N48Bu
- 6919 MERZARI, A. H. El bajo rendimiento de leche torna antieconómico al tambo. Chacra 18(213): 50. July 1948. 9 C34
- Management factors for dairy farms.
- 6920 MILLER, R. L. A serviceman looks at the land. Farmer & Stock-Breeder 62: 2304. Oct. 5, 1948. 10 F228
- Farming as a career.
- 6921 MONTGOMERY, K. M. An Otorohanga dairy farm. New Zeal. Dept. Agr. B. 268: 77-83. 1948. 23 N48Bu
- 6922 NEW ZEALAND. DEPT. OF AGRICULTURE. Studies in farm management (second series). New Zeal. Dept. Agr. B. 268, 159 p. 1948. 23 N48Bu
- 6923 NOTTAGE, I. L., and ALLO, A. V. Farming a small holding. New Zeal. Dept. Agr. B. 268: 65-68. 1948. 23 N48Bu
- 6924 OCAMPO, L. A. Farmers in the making. Agr.-Com.-Indus. Life 10(8): 2-3, 34-35. Aug. 1948. 25 Ag8
- Farming as an occupation in the Philippines.
- 6925 OLALQUIAGA, R. De las granjas "piloto" y algo más. Agricultura [Madrid] 17: 354-356. Aug. 1948. 15 Ag84
- 6926 PAREJA E., L. Diversificación agrícola, condición principal del éxito en la agricultura. Campo [La Paz] 2(14): 77-80. June 1948. 9.1 C15
- 6927 POPE, L. F. Farming--a challenge to all. FCX Patron 11(11): 2, 7. Sept. 20, 1948. 280.28 F11
- 6928 PRESTIANNI, N. New relations between property, management, and labor in Sicilian agriculture. (In Italian.) Riv. di Econ. Agr. 3: 159-167. 1948. 281.8 R52
- English summary.



6929 PRICE, C. W., JR. Less work, more rice, more beef. Rice after rice after rice gives less rice. Rice after clover and cattle after rice gives more rice. Prog. Farmer, Miss.-Ark.-La. Ed. 63(9): 17, 101. Sept. 1948. 6 So81

6930 RASKOPF, B. D. Improving incomes of small farms in area 6, west Tennessee. Tenn. Agr. Expt. Sta. Rural Res. Ser. Monog. 237, 56 p. Ref. Aug. 30, 1948. 173.2 W89Co

6931 RATCHFORD, C. B. Suggested plan for the large Southern Piedmont cotton farms. N. C. Agr. Col. Ext. C. 321, 12 p. July 1948. 275.29 N811

6932 RATCHFORD, C. B. Suggested plan for the medium Southern Piedmont cotton farms. N. C. Agr. Col. Ext. C. 320, 10 p. July 1948. 275.29 N811

6933 REBORA, B. Dry farming in the United States. (In Italian.) Humus 4: 7-9. Jan. 1948. 16 H88

6934 RICHARDS, J. G. A South Otago mixed farm. New Zeal. Dept. Agr. B. 268: 136-142. 1948. 23 N48Bu

6935 ROGERS, J. V., JR. Bray's Island--an example of good farm management. Cotton Gin & Oil Mill Press 49(19): A-4, A-6. Sept. 18, 1948. 304.8 C822

6936 SANZ, F. Una granja de cunicultura modelo. Siembra 1948(7): 9-11. July 1948. 15 S11

6937 SELLWOOD, T. A. A Hakataramea arable farm. New Zeal. Dept. Agr. B. 268: 123-128. 1948. 23 N48Bu

6938 SERPIERI, A. On the concepts of marginal enterprise, ordinary enterprise, and typical farm. (In Italian.) Riv. di Econ. Agr. 3: 178-185. 1948. 281.8 R52

English summary.

6939 SHANNON, A. T. A Waipa dairy farm. New Zeal. Dept. Agr. B. 268: 49-54. 1948. 23 N48Bu

6940 SHANNON, A. T. A Waipa fat lamb farm. New Zeal. Dept. Agr. B. 268: 55-64. 1948. 23 N48Bu

6941 SHULTIS, A. Commercialized farming requires better management. Amer. Soc. Farm Mgrs. & Rur. Appraisers. J. 12: 198-201. Oct. 1948. 281.8 Am32

6942 SILVEIRA, G. G. DA. Farm demonstration weeks. (In Portuguese.) Lavoura 52: 24-25. May/June 1948. 9.2 L39

Brazil.

6943 SITTERLEY, J. H. Planning my farm business; characteristics of a good farm organization. Ohio. Agr. Col. Ext. B. 211, rev., 43 p. 1947. 275.29 Oh32

6944 SMITH, C. S. A pattern for marginal land. Farmers Weekly [London] 29(10): 38-39, (11): 43. Sept. 3, 10, 1948. 10 F2226

In England.

6945 SMITH, E. G. A Waipara pastoral farm. New Zeal. Dept. Agr. B. 268: 118-121. 1948. 23 N48Bu

6946 SMITH, O. Modern farming operations. U & I Cult. 8(2): 15. Sept. 1948. 66.8 V12

6947 STOKES, D. Six months' impression of farming in Canada and the U. S. A. Gt. Brit. Min. Agr. Agriculture 55: 259-263. Sept. 1948. 10 G79J

6948 TAN, H. S. One year of land administration. (In Chinese.) Monthly Farmers' Bank China 9(4): 23-25. Apr. 1948. 281.9 F225M

English summary.

6949 TANG, W. S. A brief report on China's land policy in recent years. China. Min. Agr. and Forestry. Misc. P. 1: 58-69. Apr. 1948. 22.5 C4412M

6950 TOZZI-CONDIVI, N. To Caesar that which is Caesar's. (In Italian.) Gior. di Agr. 58: 254. Sept. 19, 1948. 16 It1G

On travelling advisory services for farmers in Italy.

6951 URRUTIA, A. Increasing independent farmers [Philippine Republic]. Agr.-Com.-Indus. Life. 10(8): 3, 33. Aug. 1948. 25 Ag8

6952 VONDELING, A. De bedrijfsvergelijking in de landbouw; een economisch-statistische studie [Management comparisons in agriculture; an economic and statistical study]. Wageningen, Veenman, 1948. 179 p. 281.172 V892

6953 WANNOP, A. R. Agricultural advisory work. Scot. Agr. 28: 88-92. Autumn 1948. 10 Sco82So

6954 WERNIMONT, K. La tecnica en la agricultura. Agr. Trop. 4(6): 41-42. June 1948. 26 Ag8

6955 WHYTE, R. O., CROCKER, R. L., and JONES, M. Farming systems and post-war problems in the northern countries. Gt. Brit. Min. Agr. Agriculture 55: 242-247. Sept. 1948. 10 G79J

In Sweden and Finland.

6956 WILKIE, D. R. A Marlborough mixed farm. New Zeal. Dept. Agr. B. 268: 113-117. 1948. 23 N48Bu

6957 WILKINSON, J. F. Farming to live. Hoard's Dairyman 93: 788. Oct. 25, 1948. 44.8 H65

6958 WILLIAMS, D. B. Farm economics. 3. Solvency in farming. So. Austral. Dept. Agr. J. 51: 583-587. July 1948. 23 So84

### Bookkeeping and Records

6959 ALMEIDA, C. F. DE. Farm accounting for all. (In Portuguese.) Rev. Rur. Bras. 28(332): 25. May 1948. 9.2 B733

6960 CLIZER, N. R. Does it really pay to keep records? Mo. Ruralist 89(17): 4. Sept. 11, 1948. 6 R8891

6961 JACOBS. Betriebskarten als hilfsmittel der betriebsführung. Neue Mitt. f. die Landw. 3: 270. Sept. 5, 1948. 18 M39

6962 KUTISH, F. A. Farm records are valuable. Hoard's Dairyman 93: 771, 789. Oct. 25, 1948. 44.8 H65

6963 MCWHINNEY, J. L. A talk on farm accountancy. Farmers' J. 28: 317-318. July 1948. 10 F2234

6964 SCHENKELBERG, A. Bauer-führ' buch! Allgauer Bauernbl. 16: 172. (Concl.) July 22, 1948. 18 AL53

6965 SWART, G. S. Farm costing need not be a nightmare. Farmer's Weekly [Bloemfontein] 75: 52-53. Aug. 11, 1948. 24 F225

System for keeping records.

6966 WEISS, J. N. Training farm veterans in the use and value of farm account records. Agr. Ed. Mag. 21: 82. Oct. 1948. 275.8 Ag8

### Costs and Returns

6967 BAKER, R. H. Milk production costs up. Farm & Home Res. [Ohio Sta.] 33: 124-126. July/Aug. 1948. 100 Oh3S

6968 BEINKE, E. G. Wiederaufbau der viehbestände - eine rentabilitätsfrage. Neue Mitt. f. die Landw. 3: 307-308. Oct. 5, 1948. 18 N39

Germany.

6969 BÖHME, C. Natural- und geldleistungen eines betriebes auf leichtem boden. Neue Mitt. f. die Landw. 3: 184. June 21, 1948. 18 N39

6970 BROWN, P. A. How much is your pasture worth? Valuable information on herd averages and monthly returns per cow. New England Homestead 121(18): 15, 20. Sept. 25, 1948. 6 N442

6971 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Second annual almond efficiency study, Sutter County, 1947, by B. B. Burlingame and R. H. Klamt. Berkeley? 1948? 275.29 C12En

Costs and returns.

6972 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Thirteenth annual report of the Lassen County beef management study, 1947; study average price, income, costs, and profit over 13 years, by T. S. Brown and A. Shultis. Berkeley? 1948? 275.29 C12En

6973 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Ventura County citrus orchard management study, Valencia oranges and lemons, 1947; an analysis of costs, yield, and income. Berkeley? 1948? 25 p. 275.29 C12En

6974 COOK, H. L. Higher yields on fewer acres. Ohio Farm Bur. News 28(2): 11, 33. Sept. 1948. 6 Oh34

Reducing cost of production.

6975 DAHL, H. K. Cost of mechanization. (In Norwegian.) Norsk Landbr. 14: 340-343. (To be cont.) Sept. 17, 1948. 11 N8122

6976 DAVIS, C. The Farmers Federation program to increase the income from dairy cattle. Farmers Fed. News 29(1): 18. Sept. 1948. 280.28 F225



- 6977 EMBLETON, H. The cost of production of eggs and pullets in southern Arizona. *Ariz. Agr. Expt. Sta. B.* 208, rev., 45 p. Sept. 1947. 100 Ar4
- 6978 ERICSON, F. L. Milk production of medium sized farms during 1947. (In Swedish.) *Ladugården* 1948: 113-116, 134-135. July 1948. 44.8 L12  
Costs and returns.
- 6979 FINANCIAL results of Northern Ireland farming, 1946-47. II. Types and sizes of farms. *North. Ireland Min. Agr. Rpt.* 23: 132-134. Sept. 1948. 256.13 Ag82M
- 6980 FRUIN, E. G. Yardstick for farm earning comparisons. *Amer. Soc. Farm Mgrs. & Rur. Appraisers. J.* 12: 196-197. Oct. 1948. 281.8 Am32
- 6981 GRABÖ, P. Determination of milk production cost in Great Britain. (In Swedish.) *Lantmannen* 32: 591-592. Sept. 4, 1948. 11 L234
- 6982 GUPTA, Y. C. Cost of making silage. *Indian Farming* 9: 70-72. Feb. 1948. 22 In283
- 6983 HASSELBERG, L., and ÖSTLIND, V. Report on bookkeeping results from farms in Jönköping County, account year 1946-1947, harvest year 1946. (In Swedish.) *Jönköpings Läns Hushållningssällsk. Handl. och Tidskr.* 1947: 112-128. 1948. 11 J732
- 6984 HAYES, J. B. What's for poultry. *Hoard's Dairyman* 93: 787. Oct. 25, 1948. 44.8 H65  
Egg costs and returns.
- 6985 HUSBY, M., and BREIREM, K. Production prices for small pigs. (In Norwegian.) *Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Føringsslaere. Særtrykk* 55, 14 p. Oslo, 1947. 389.79 N76
- 6986 KERSTING, H. Unkostengestaltung. *Landtechnik* 3: 226-227. July 31, 1948. 58.8 L235  
Germany.
- 6987 KONDRA, P. A. What do eggs cost you? *Manitoba Co-op.* 6(8): 5. Sept. 23, 1948. 280.28 M31
- 6988 KUHLMAN, G. W., and MUMFORD, D. C. Cost of producing sweet cherries for processing in the Willamette Valley and the Dalles area. *Oreg. Agr. Expt. Sta. B.* 454, 48 p. July 1948. 100 Or3
- 6989 MATHER, W. H. Greater efficiency, lower costs being sought in wool industry. *Farmer & Settler* 43(27): 6. Aug. 6, 1948. 23 F226
- 6990 MILLER, M. W., and BOGGS, L. C. More dollars from fryers. *Washcoegg* 26(4): 7, 28-29, 33. Sept. 1948. 47.8 W27
- 6991 MURPHY, R. G. Costs in harvesting hay crop silage. *N. Y. Agr. Col. A. E.* 670, 19 p. May 1948. 281.9 C81
- 6992 NEETHLING, J. C. Maize production costs. *Farming So. Africa* 23: 371-379. June 1948. 24 So842
- 6993 NEUMANN, H. J. Zur frage der erzeugungskosten von zuchtieren. *Tierzucht* 2: 68-69. Apr./May 1948. 49 T443
- 6994 OLIVAS SOTO, M. Tasa de la cebada. *Ager* 4: 63. Mar./Apr. 1948. 33.23 Ag3  
Costs in Spain.
- 6995 PEYRONNET, R. La hausse des dépenses agricoles. *Rev. Agr. de l'Afrique du Nord* 46: 381-382. July 30, 1948. 80 R326
- 6996 REID, P. A. Relative returns from wool-growing and fat lamb production. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 1(3): 17-19. July 1948. 281.9 Au73
- 6997 ROOS, G. Profitableness of small-scale poultry keeping. (In Swedish.) *Lantbrukstidskr. för Dalarna* 1948: 116-124. Aug. 1948. 11 L29
- 6998 ROSSI, R. P. Income from sheep and goats in northern Italy. (In Italian.) *Humus* 3(9): 29-30. Sept. 1947. 16 H88
- 6999 SENGHER, M. E. Good cows return more for labor. *Md. Farmer* 32(8): 11, 26. Aug. 1948. 6 M362
- 7000 SHEEHY, E. J. The animal on the farm. Food in the cost of production of eggs and table chickens. *Agr. Ireland* 5: 196-197, 199. Sept. 1948. 10.5 Ag8  
No. 59 of the series.
- 7001 STALL, C. W. 7 counties act to lower county farm operation costs. *Hoosier Farmer* 33(10): 11, 30. Oct. 1948. 280.82 H76
- 7002 UGGLAS, C. AF. Profitability of farming. (In Swedish.) *Lantmannen* 32: 607-608, 610, 643-644, 658-659, 661. Sept. 11-Oct. 2, 1948. 11 L234
- Land Settlement and Colonization
- 7003 BOCELA DURÁN, V. Colonización y ganadería: una obra selectiva en ganado vacuno holandés. *Agricultura [Madrid] Sup. de Colon.* 1948(8): 9-12. July 1948. 15 Ag84B
- 7004 BRIGGS, I. A. Gila [Arizona] homesteaders take over. *Reclam. Era* 34: 173-174. Sept. 1948. 156.84 R24
- 7005 BRIZI, A. Colonization societies and their work. (In Italian.) *Riv. di Econ. Agr.* 3: 230-238. 1948. 281.8 R52  
English summary.
- 7006 CHAPMAN, B. B. Freedmen and the Oklahoma Lands. *Southwest. Social Sci. Q.* 29: 150-159. Ref. Sept. 1948. 280.8 So82
- 7007 DOMÍNGUEZ GARCÍA, M. Colonizaciones en marcha: la gran zona de Montijo. *Agricultura [Madrid] Sup. de Colon.* 1948(8): 2-8. July 1948. 15 Ag84B
- 7008 DORADO, J. T. A. For men without land. *Agr.-Com.-Indus. Life* 10(7): 2-3, 17, 29, 32. July 1948. 25 Ag8  
Homesteads in the Philippines.
- 7009 GOMEZ AYAU, E. Historia de una colonización "Las Torres." *Spain. Inst. Nac. de Colon. I.N.C.P.* (ser. 2) 12, ed. 1, 154 p. Madrid, 1948. 280.9 Sp11
- 7010 GONZÁLEZ MIRAVALLES, A. Colonización de interes local. *Congreso Sindical de la Tierra. Estudios y Conclusiones* 1948: 87-98. 281.9 C7664  
Spain.
- 7011 MORALES, S., and RUEDA MARIN, M. La sección femenina y el I.N.C. [Instituto Nacional de Colonización]: la cátedra "Francisco Franco." *Agricultura [Madrid] Sup. de Colon.* 1948(8): 13-19. July 1948. 15 Ag84B
- 7012 ROMERO DE TEJADA Y CUESTA, A. Traslado de pueblos y su nuevo emplazamiento. *Congreso Sindical de la Tierra. Estudios y Conclusiones* 1948: 99-107. 281.9 C7664
- 7013 STEINPORSSON, S. New farms and colonization. (In Icelandic.) *Freyr* 43: 210-216. July 1948. 11 F89
- 7014 WILSON, K. Poultry aids Land Settlement [Association]. *Poultry [London]* 103: 210. Sept. 14, 1948. 47.8 P869  
Summary of paper given at World's Poultry Congress, Copenhagen.
- Land Tenure
- 7015 ADAMS, P. DE O. Suggestions for the study of agrarian reform. (In Portuguese.) *Rev. Rur. Bras.* 28(332): 36-40. May 1948. 9.2 B733  
Brazil.
- 7016 ADAMS, R. L. Farm tenancy; practices changing in relationship between farm owner and tenant. *Calif. Agr. [Calif. Sta.]* 2(9): 2. Sept. 1948. 100 C12Cag
- 7017 ALBERTINI, F. Present problems of landed estates. (In Italian.) *Humus* 3(8): 26-27. Aug. 1947. 16 H88
- 7018 ARBELAEZ MANRIQUE, A. En torno a una política de parcelaciones. *Agr. Trop.* 4(7): 35-38. July 1948. 26 Ag8  
Colombia.
- 7019 ARRUE ASTIAZARAN, A. Parcelaciones y concentración parcelaria. *Congreso Sindical de la Tierra. Estudios y Conclusiones* 1948: 37-61. 281.9 C7664  
Spain.
- 7020 BAERT, J. Formation of small farms. (In Dutch.) *Netherlands. Landbouwvoorlichtingsdienst. Maandbl.* 5: 366. Aug. 1948. 12 N383M
- 7021 BARGER, J. W. Why you should make a will. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(10): 41. Oct. 1948. 6 So81
- 7022 BELLVER, E. A. Un auténtico incremento de rentas. *Agr. Levantino* 14(163): 25-26. June 1948. 15 Ag85  
Spain.
- 7023 BELLVER, E. A. La notificación de la renta exigible en los arrendamientos rústicos. *Agr. Levantino* 14(164): 18-20. July 1948. 15 Ag85
- 7024 BELLVER, E. A. Un supuesto aumento de renta. *Agr. Levantino* 14(160): 63-64. Mar. 1948. 15 Ag85



7025 BERNASCONI, G. Share farming. (In Italian.) Terra [Firenze] 59(28): 1. July 11, 1948. 16 T274

7026 BONOMI. The question of rents of leases in kind. (In Italian.) Mezzogiorno Agr. 4(27): 1, 4. July 4, 1948. 16 M57  
Italy.

7027 BRASK, A. The land legislation proposal of the Minister of Agriculture is uncalled for, harmful, and destructive. (In Danish.) Tolvmandsbladet 20: 59-63. Mar. 1948. 11 T58  
Denmark.

7028 BUTTAZZONI, G. Political requisites of agrarian reform. (In Italian.) Agr. Brescliana 1(35): 1. Sept. 1, 1948. 16 Ag89

7029 CARDOSO, F. M. Agrarian reforms. (In Portuguese.) Soc. Rur. Bras. Rev. 28(334): 36-40. July 1948. 9.2 B733

7030 CHATENOIS, M. Equiper, c'est d'abord remembrer. Monit. Agr. 1(30): 5; (31): 13. (Cont.) Aug. 8-15, 1948. 14 M744  
France.

7031 COATES, G. Agricultural profit-sharing in Puerto Rico. Land Econ. 24: 309-311. Aug. 1948. 282.8 J82

Describes a system of land tenure.

7032 DELOBEL, R., MARIE-CARDINE, R., and FORTIN, B. Le nouveau régime des baux ruraux et des aliénations de biens ruraux. Paris, Éditions T.F.J., 1948? 253 p. 282.174 D38

7033 DIVATIA, V. V. A note on the size of agricultural holdings and extent of fragmentation in Bombay Province. Bombay. Bur. Econ. & Statis. B. 1(4): 1-9. (Cont.) 1948. 269.54 Ec7

7034 FELICE, P. DE. Un jugement intéressant sur l'indemnité au preneur sortant. Monit. Agr. 1(25): 5. July 4, 1948. July 4, 1948. 14 M744  
France.

7035 FELICE, P. DE. Qu'est-ce qu'un bail d'exploitation agricole? Monit. Agr. 1(24): 5. June 27, 1948. 14 M744

7036 GARCIA ISIDRO, M. Arrendamientos rústicos; rentas en mil novecientos cuarenta y ocho. Agricultura [Madrid] 17: 308-310. July 1948. 15 Ag84

7037 GIMENO, J. M. Acceso a la propiedad. Congreso Sindical de la Tierra. Estudios y Conclusiones 1948: 115-127. 281.9 C7664  
Spain.

7038 GIMENO, J. M., and MELÉNDEZ RICO, S. Arrendamientos rústicos. Congreso Sindical de la Tierra. Estudios y Conclusiones 1948: 19-35. 281.9 C7664  
Spain.

7039 GOES, J. DE A. The project of agrarian reform proposed by Sr. Nestor Duarte. (In Portuguese.) Lavoura 52: 49-54. Mar./Apr. 1948. 9.2 L39  
Brazil.

7040 GOMEZ, A. M. Mexican agrarian policy—postwar developments. Foreign Agr. 12: 221-224. Oct. 1948. 1.9 Ec7For

7041 GRENDahl, T. Preparation of a land register in Norway. (In Norwegian.) Norsk Myrselskap. Meddel. 46: 49-62. May 1948. 11 N813  
Discussion, p. 62-66.

7042 HEADINGTON, R. C. Keep the farm in the family. Farm & Home Res. [Ohio Sta.] 33: 126-129. July/Aug. 1948. 100 Oh3S

7043 HILL, E. B., and BERRY, R. L. Don't wait for the will; it's better to buy than inherit a farm, so buy the farm—if you want to keep it in the family. Farm J. 72(10): 26-27. Oct. 1948. 6 F2212

7044 HOME, SIR J. M. Agriculture (Scotland) Act, 1948; the landowner's position. Scot. Agr. 28: 75-79. Autumn 1948. 10 Sco82So

7045 HULSHOF, H. J. The Ruurlose Broek. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 5: 358-362. Aug. 1948. 12 N383M  
Land tenure and prices chiefly.

7046 KENYA COLONY AND PROTECTORATE. The liguru and the land; sociological aspects of some agricultural problems of North Kavirondo. Nairobi, 1947. 82 p. 282.19 K42L  
Includes soil conservation, land utilization and land tenure.

7047 KÖNEMANN, E. Zur bodenreform in der britischen zone. In Könemann, E. Zeitprobleme der inneren kolonisation, p. 1-6. Kinau, 1947. 282.175 K83

7048 KREHAN. Das nachbarrecht. Salzburg. Bauer 3(33): 4-5. (Cont.) Aug. 12, 1948. 19 Sa3

7049 LEMONNIER-LEBLANC, J. Les fermiers "occupants sans titre." Monde Paysan 3(118): 2. Sept. 1948. 14 M742

7050 LUTRI, I. Throw open the latifundium to the formidable forces of labor, calling for collaboration between property and all the healthy energies of the country [Italy]. (In Italian.) Gior. di Agr. 58: 228. Aug. 29, 1948. 16 It1G

7051 LUZZATTO, F. Latifundium and fragmentation. (In Italian.) Gior. di Agr. 58: 228. Aug. 29, 1948. 16 It1G

7052 MCNULTY, J. B. Testing the equitability of farm rental agreements. Minn. U. Agr. Farm Business Notes 307: 2-3. Aug. 30, 1948. 275.29 M663

7053 MALTA CARDOZO, F. Democracia ou servidão rural? Reformas agrárias, Georgismo [Democracy or rural servitude? Agrarian reform, Georgism]. São Paulo, Saraiva, 1948. 292 p. 281.2 M293

7054 MARCANTONIO, C. Negative aspects of emphyteusis. (In Italian.) Risveglio Agr. 7: 239-240. July 15/31, 1948. 16 R49

7055 MEDICI, G. The first reform. (In Italian.) Gior. di Agr. 58: 235. Sept. 5, 1948. 16 It1G  
The Italian agrarian reform.

7056 MITCHELL, C. South Korean tenants become landowners. Foreign Agr. 12: 217-220. Oct. 1948. 1.9 Ec7For

7057 MORPURGO, E. Notes on the agrarian reform. (In Italian.) Not. Agr. [Padova] 53: 1. Aug. 1948. 16 N844

7058 MURPHY, R. E. Landownership on a Micronesian atoll. Geog. Rev. 38: 598-614. Oct. 1948. 500 Am35G

7059 PAGANI, F. Agrarian reform and national production. (In Italian.) Agricoltore [Milano] (n. s.) 29 (32/33): 1-2. Aug. 7/14, 1948. 16 Ag862  
Also in Bologna Agr. 1(30/31): 1. Aug. 21, 1948. 16 B634

7060 PAGANI, F. Agricultural leases. (In Italian.) Agr. Brescliana 1(51/32): 3. Aug. 4/11, 1948. 16 Ag89

7061 PAGANI, F. Other consequences of the agrarian reform. (In Italian.) Agricoltore [Milano] (n. s.) 29(34/35): 1-2. 16 Ag862

7062 PARSONS, K. H. Research in the succession of farms: a comment on methodology. Land Econ. 24: 293-302. Aug. 1948. 282.8 J82

7063 PASSERINI, O. Land ownership in the Alps. (In Italian.) Riv. di Econ. Agr. 3: 168-177. 1948. 281.8 R52  
English summary.

7064 PELLIZZARI, C. The limitation on landholding. (In Italian.) Agr. Brescliana 1(34): 1. Aug. 25, 1948. 16 Ag89

7065 PNOWER, G. Bodenreform und gartenbau. Berlin, Siebeneicher Verlag, 1948. 187 p. 282.175 P74

7066 RICCHIONI, V. Inquiry on the results of property quotas in the [Italian] Mezzogiorno. (In Italian.) Risveglio Agr. 7: 227-233. July 15/31, 1948. 16 R49

7067 ROSINGER, L. K. The Philippines—problems of independence. Foreign Policy Rpts. 24: 82-95. Ref. Sept. 1, 1948. 280.9 F76R  
Includes land tenure and foreign trade.

7068 SICRE CANUT, L. El absentismo rural. Agricultura [Madrid] 17: 357-360. Aug. 1948. 15 Ag84

7069 SIRE, P. Violations du droit de chasse. Colon. Franç. de Tunisie 58(2064): 3. Sept. 11, 1948. 24 C712

7070 SIVASWAMY, K. G. Compensation for Zamin-dars. Madras, So. Indian Fed. of Agr. Workers' Unions, 1947. 29 p. 282.182 Si9C

7071 THARP, M. M. Tenant, landlord, and farm benefit from a good lease. Agr. Situation 32(10): 4-5. Oct. 1948. 1 Ec7Ag

7072 TRIFONE, R. Legal aspects of the limits on land ownership. (In Italian.) Gior. di Agr. 58: 251-252. Sept. 19, 1948. 16 It1G

7073 U. S. BUR. OF AGRICULTURAL ECONOMICS. Trends in the tenure status of farm workers in the United States since 1880, by C. C. Taylor, L. J. Ducoff, and M. J. Hagood. Washington, 1948. 36 p. 1.941 R3T722

7074 VIERI, F. Hunger or thirst? (In Italian.) Terra [Firenze] 59(33/34): 1. Aug. 22, 1948. 16 T274  
On the land reform program.



7075 WERNEBURG, H. Die beendigung und verlängerung von pachtverträgen landwirtschaftlicher grundstücke. *Allgauer Bauernbl.* 16: 175-176. July 22, 1948. 18 AL53

7076 WINTHER, B. E. Is the Government land reform proposal well-grounded? (In Danish.) *Tolvmandsbladet* 20: 79-83. Apr. 1948. 11 T58

#### Land Utilization

7077 BENNETT, H. Sandhills of Nebraska, example of good land use. *Soil Conserv.* 14: 80-81. Nov. 1948. 1.6 So3S

7078 BLACK, D. L. Our unused resources; the Delta is widely known as a rich agricultural section--yet 50 percent of its land is not being put to wise economic use, the author says. *Cotton Gin & Oil Mill Press* 49(19): 14. Sept. 18, 1948. 304.8 C822

7079 CLARK, G. Planning problems of the countryside. *Roy. Inst. Chartered Surveyors. J.* 28: 148-161. Sept. 1948. 282.9 C38J

7080 GREAT BRITAIN. PARLIAMENT. HOUSE OF COMMONS. STANDING COMMITTEE ON BILLS D. Minutes of proceedings on the Town and Country Planning Bill. London, H. M. Stationery Off., 1947. 98.5 G798

7081 JANINI JANINI, R. Ni un palmo de tierra sin aprovechar. *Agr. Levantino* 14(164): 25-26. July 1948. 15 Ag85 Spain.

7082 LEEDY, D. L. Some wildlife and land use relationships in Ohio. *Ohio J. Sci.* 48: 151-160. Ref. July 1948. 410 Oh3

7083 ROBERTS, B. The brush frontier. *West. Dairy J.* 4(12): 27, 48-49. Oct. 1, 1948. 44.8 W524

#### Land utilization.

7084 SCOTT, L. J. Principles and practice of land use in Britain. (Excerpts.) *Landscape Architecture* 39: 7-13. Oct. 1948. 80 L23

7085 STAMP, L. D. The land of Britain: its use and misuse. London, Longmans, Green, 1948. 507 p. 282.171 St2L

7086 WYNNE-EDWARDS, J. C. Farming, forestry and sport; problems of the marginal and hill lands of Britain. *Field* 192: 290-291. Sept. 11, 1948. 10 F45

#### Land Values and Valuation

7087 BOHANAN, L. B., and DEVAULT, S. H. Farm real estate trends in Maryland. *Md. Agr. Expt. Sta. B.* A45, p. 50-69. Aug. 1947. 100 M36S

7088 CLAUSAGER, A. Sales frequency of farms of various sizes. (In Danish.) *Tolvmandsbladet* 20: 83-85. Apr. 1948. 11 T58

7089 CUVILLIER, J. Expertises rurales; foncières, agricoles, forestières. Paris, Maison Rustique, 1948. 678 p. 284 C98

7090 FONTANILLE, H. Les évaluations foncières de la propriété non bâtie. *Voix des Colons* 30(1468): 3. Sept. 6, 1948. 24 V85

7091 LEON, C. F. El potrero: valor de tierras y bienhechurfas. *Rev. Nac. de Cien. Polit.-Econ.-Sociales* 7(80): 18. July 1948. 280.8 R3295 Cuba.

7092 MCLEAN, E. E. Farm real estate and loan outlook. *Amer. Soc. Farm Mgrs. & Rur. Appraisers. J.* 12: 184-191. Oct. 1948. 281.8 Am32

7093 SHATTUCK, C. B. Economic aspect of farm land valuation. *Appraisal J.* 16: 451-454. Oct. 1948. 282.8 Am3

7094 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm real estate activity in twelve western counties, October - March, 1947-48, by K. S. Landstrom and O. C. Fuqua. Washington, 1948. 16 p. 1.941 L8F224

7095 VALENTINI, M. Law of supply and demand: real estate market. (In Italian.) *Terra [Firenze]* 59(28): 1. July 11, 1948. 16 T274

#### POPULATION

7096 AGRELL, G. Farmer or porter? (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Ostra Mellansverige och Gästrikland* 17(11): 5. Mar. 15, 1947. 11 J762

#### Rural-urban migration in Sweden.

7097 JARRETT, H. R. Population and settlement in the Gambia. *Geog. Rev.* 38: 633-636. Oct. 1948. 500 Am35G

7098 PERU. MINISTERIO DE HACIENDA Y COMERCIO. DIRECCIÓN NACIONAL DE ESTADÍSTICA. Censo nacional de población de 1940; volumen V: Departamento de Lima, Ciudad de Lima, Prov. constitucional del Callao. Lima, 1947? various paging. 255.8 Es80

7099 LA POPULATION agricole en France. B. de la Statist. Gén. de la France 36: 210-249. July/Sept. 1948. 260 An7

7100 THADEN, J. F. Effect of the increased birth rate on school enrollments and school-building needs. *Mich. Agr. Expt. Sta. Q. B.* 31: 1-11. Aug. 1948. 100 M58S

Includes rural and urban population increases in specified counties.

#### RURAL SOCIAL ORGANIZATION

7101 APARISI MOCHOLI, A. Acción asistencial en los medios rurales. *Congreso Sindical de la Tierra. Estudios y Conclusiones* 1948: 145-160. 281.9 C7664 Spain.

7102 LYNN, B. Pool room and plowshare are closer together today—but there are still some big differences in levels of living in rural and urban areas. *Polled Hereford Mag.* 6(2): 13-14. Sept. 15, 1948. 49 P69

7103 MAGANO, V. DOS S. Organization of the rural class. (In Portuguese.) *Lavoura* 52: 47-48. Mar./Apr. 1948. 9.2 L39

#### Brazil.

7104 MARQUET, L. Contribution à l'étude d'un programme d'action du Fonds du Bien-être indigène en région du Lomami. *Com. Coton. Congol. B.* 8: 34-35. July 1948. 72.9 C732

7105 MOTTER, M. Time marches on in the hinterlands. *Mountain Life & Work* 24(3): 12-15. Fall, 1948. 281.28 M86

#### Rural life.

7106 NEUREUTER. Der kommandoton in der landwirtschaft. *Landtechnik* 2(5): 1-2. Feb. 28, 1947. 58.8 L235

Social duties in Germany and the need for simple machinery to lighten work.

7107 RICASOLI, B. Social aspects of agriculture. (In Italian.) *Riv. di Econ. Agr.* 3: 285-287. 1948. 281.8 R52

#### English summary.

#### Italy.

7108 ROMERO MONTERO, R. El Instituto de Estudios Agrosociales, qué es y a qué obedece su creación. *Aliment. Nac.* 7(121): 2, 12. June 10, 1948. 389.8 AL42

7109 SCHMID, J. Almgemeinschaften und nachbarschaftshilfe. *Kärntner Bauer* 98: 284-285. Sept. 1, 1948. 19 K14

7110 SCHRÖNGHAMER-HEIMDAL, F. Das einfache leben; gedanken zur deutschen notwende. In *Könemann, E. Zeitprobleme der inneren kolonisation*, p. 24-26. Kinau, 1947. 282.175 K83

7111 SCOTT, A. F., ed. Country life; a prose and verse anthology of country life in Great Britain. London, Macmillan, 1947. 238 p. (Scholar's Libr.) 281.171 Sco84

7112 VASCONCELOS, A. F. DE. Social service for sugarcane growers and the sugar industry. (In Portuguese.) *Brasil Açucareiro* 31: 620-622. June 1948. 65.8 B73

7113 WETHERELL, G. Outlook for improved rural living. *Amer. Soc. Farm Mgrs. & Rur. Appraisers. J.* 12: 167-169. Oct. 1948. 281.8 Am32

#### Human Ecology

7114 ACKERMAN, C. B. Teaming up to solve problems pays dividends. *Ext. Serv. Rev.* 19: 81, 85. Oct./Nov. 1948. 1 Ex892Ex

#### Berlin Community, West Virginia.

7115 BRAYNE, F. L. Better homes--better villages. *Countryside [Burford]* 38(1): 121-124. Autumn, 1948. 281.28 C832

7116 FISK, A. A. The Institute [American Institute of Park Executives] and the small rural communities. *Parks & Recreation* 31: 578-580. Oct. 1948. 98.8 P23

7117 FOURIE, F. C. VAN N. Regional planning and development in South Africa. Cape Town, So. African Interests Group, 1947. 60 p. 280.193 F82



7118 FRANCE. DIRECTION DE LA DOCUMENTATION. La réalisation du plan de modernisation dans un département; Moselle, 1947. Paris, 1948? 53 p. (Documentation Française Illustrée) 280.174 F844 Regional planning.

7119 FRANZ, W. Die gemischte welt des dorfes. In Kōnemann, E. Zeitprobleme der inneren kolonisation, p. 19-24. Kinau, 1947. 282.175 K83

7120 GARRETT, E. To tap latent tropical riches. Mex.-Amer. Rev. 16(8): 10-14. Aug. 1948. 287 M572 The Papaloapan Valley Project, Mexico.

7121 JAMES, P. E. The São Francisco Basin: a Brazilian sertão. Geog. Rev. 38: 658-661. Oct. 1948. 500 Am35G

7122 MAJOR, E. Questions and answers for parish councillors. Village 3(3): 22-23. Autumn, 1948. 281.28 V71 Great Britain.

7123 MEDEIROS, N. DE, CUNHA, J. F. DA, and AZZI, R. Regional aspects of the Ribeira de Iguaçu valley. (In Portuguese.) Colheitas e Mercados 4(3/6): 33-35. (Cont.) Mar./June 1948. 255.3 Sa652

7124 NATIONAL CONFERENCE ON THE COMMUNITY. Community building in America. Nassau? N. Y., 1947? 34 p. 280.12 N192

7125 NEWELL, A. Village life in other lands. 5. The New England States of America. Village 3(3): 24. Autumn, 1948. 281.28 V71

7126 TALLENTS, SIR S. The community helps to plan the village. Home & Country [London] 30: 175. Oct. 1948. 281.28 H752

#### Institutions

7127 BALLY, A. C. Agricultural school plots and practical agriculture. Agr. Soc. Trinidad and Tobago, Proc. 47: 79, 81, 83-85. Mar. 1947. 8 T73

7128 BECKER, C. F., and WARD, W. V. Reveals farm progress. Ill. Dept. Agr. Ann. Rpt. 30: 275-285. 1947. 2 IL6R Illinois State Fair.

7129 BERCAW, L. O. Library service to technical agriculturists. Col. & Res. Libr. 9: 323-326, 331. Oct. 1948. 243.8 C68

7130 BLEDSOE, O. F., III. Negro farmers. Staple Cotton Rev. 26(9): 1-2. Sept. 1948. 72.8 St22

7131 BOCETA DURAN, V. Los servicios agrícolas y las diputaciones provinciales. Siembra 1948(6): 4-7. June 1948. 15 Si1 Spain.

7132 BROWN, L. A. The principles of agricultural extension. Japan Fert. Weekly 59: 3. Apr. 21, 1948. 57.8 F417

7133 BUTH, H. Erfahrungen aus der beratungsarbeit beim aufbau eines beispieldorfes. Deutsche Bauerntech. 2(4): 1-12. Apr. 1948. 58.8 D48

7134 CAMPBELL, M. H. Co-operation. Flour & Feed 49(6): 24. Nov. 1948. 298.8 F66 Cooperation between agricultural colleges and industry.

7135 CARLSON, A. B. My conception of lesson planning. Agr. Ed. Mag. 21: 79, 82. Oct. 1948. 275.8 Ag8

7136 CASSERES, E. H. La biblioteca como recurso básico de la investigación. Agr. Trop. 4(6): 51-53. June 1948. 26 Ag8

7137 CHAPARRO GONZÁLEZ, A. Ideas con plata e ideas sin plata. Agr. Trop. 4(9): 36-39. Sept. 15, 1948. 26 Ag8

Extension work.

7138 CHIAO, C. M. Agricultural extension work in China for the year 1946-7. China. Min. Agr. and Forestry. Misc. P. 1: 2-5. Apr. 1948. 22.5 C4412M

7139 CLARK, C. Craftsmanship in the countryside. Roy. Soc. Arts. J. 96: 628-639. Sept. 10, 1948. 501 L847J

Discussion, p. 639-640.

7140 COLLIER, M., and COLLIER, J., JR. Navajo farmer. Farm Q. 3(3): 17-24, 103, 104, 106-107. Autumn 1948. 6 F22995

7141 COMMINS, F. The Local Government Act, 1948; its effect on parish councils. Village 3(3): 18-20. Autumn, 1948. 281.28 V71

Great Britain.

7142 CONGRÈS NATIONAL DES CERCLES DE JEUNES, 1, PARIS, 1947. Le Congrès, ses travaux, ses conclusions. Paris, C. G. A., 1947. 48 p. 14 C764

7143 COOK, G. C. Suggestions on the time and frequency of farm visits to all-day students of vocational agriculture. Agr. Ed. Mag. 21: 86-87. Oct. 1948. 275.8 Ag8

7144 COOKE, D. E. Equipping the village hall. Village 3(3): 9-11. Autumn, 1948. 281.28 V71

7145 CROOKSHANK, A. C. Church and countryside in a Sussex parish. Town & Country Church 46: 5-7. Oct. 1948. 281.28 T66

7146 CRUZ RAMIREZ, C. Necesario es ir a la reforma integral de la enseñanza. Agrario 13(400): 5. Apr. 1948. 9.3 Ag85 Chile.

7147 DAWBER, M. A. Christian education and community. Town & Country Church 46: 3-4. Oct. 1948. 281.28 T66

7148 DAWSON, H. A. Some observation on the work of the private secondary schools in the southern mountains. Mountain Life & Work 24(3): 8-10. Fall, 1948. 281.28 M86

7149 DEVEAU, B. W. School (non-agricultural) and community activities; teachers of vocational agriculture in New York State. Agr. Ed. Mag. 21: 89, 93. Oct. 1948. 275.8 Ag8

7150 DUBOIS, D. J. Rural recreation. Recreation 42: 320-321. Oct. 1948. 280.68 P69

7151 EMERSON, G. H. Grants for village hall schemes in England and Wales; the new procedure explained. Village 3(3): 7-8. Autumn, 1948. 281.28 V71

7152 ESPINOSA, C. Como vive el campesino cubano. Almanaque Campesino del ABC 8(8): 22-24. Jan. 1948. 8 AL63

7153 FAGAN, H. L. Shop instruction for veterans at DeLand, Florida. Agr. Ed. Mag. 21: 85. Oct. 1948. 275.8 Ag8

7154 FARM FOUNDATION. Better health for rural people. Chicago, 1948. 16 p. 448 F22B

7155 FENTON, H. J. Farming and a college education. New England Homestead 121(17): 22-23. Sept. 11, 1948. 6 N442

7156 GERMANY (TERRITORY UNDER ALLIED OCCUPATION, U. S. ZONE) MILITARY GOVERNOR. ECONOMICS DIV. FOOD AND AGRICULTURE BR. Agricultural education, research, and extension institutions and activities in Germany, by G. W. Ware. n. p., 1948. 9 p. 173.3 M59Ae

7157 GERMANY (TERRITORY UNDER ALLIED OCCUPATION, U. S. ZONE) MILITARY GOVERNOR. ECONOMICS DIV. FOOD AND AGRICULTURE BR. Organization and operation of the United States cooperative extension service (for women), by C. Holtzclaw. n. p., 1948. 6 p. 173.3 M590

7158 GILL, H. The place of crafts in recreation. Mountain Life & Work 24(3): 19. Fall, 1948. 281.28 M86

7159 GONZÁLEZ DE REGUERAL, F. Capacitación agrícola. Siembra 1948(6): 8-9. June 1948. 15 Si1 Spain.

7160 GRAHAM, A. B. Teaching through tours. Natl. Co. Agent 4(9): 23, 31. Sept. 1948. 275.28 N213

7161 GRIFFITHS, R. L. Rural training for ex-servicemen by demonstration. So. Austral. Dept. Agr. J. 51: 571-580. July 1948. 23 So84 In Australia.

7162 GUNLOGSON, G. B. What do farmers think of educational bulletins? Natl. Co. Agent 4(10): 10-12. Oct. 1948. 275.28 N213

7163 HALLVIK, B. Centralization of rural libraries. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(3): 5. Jan. 18, 1947. 11 J762

7164 HAMILTON, C. H. How can farm folks get better hospital and better medical care. Prog. Farmer, Miss.-Ark.-La. Ed. 63(10): 12, 60. Oct. 1948. 6 So81

7165 HANNA, S. Portrait of a country craftsman. 2. Tom Nixon, dry-waller. Village 3(3): 28. Autumn, 1948. 281.28 V71

7166 HANNAH, J. A. We build on a good foundation. Ext. Serv. Rev. 19: 82-83. Oct./Nov. 1948. 1 Ex892Ex Land-grant colleges.

7167 HEDLIN, R. Future farmers at work and play; Saskatchewan's School of Agriculture gives training in practical farming and rural leadership. Country Guide 67(9): 11, 34, 35. Sept. 1948. 7 G76



- 7168 HERNDON, C. A. Wider horizons for television. *Agr. Situation* 32(10): 12-13. Oct. 1948. 1 Ec7Ag
- 7169 HERTEL, J. P., and DIVESTA, F. J. An evaluation of five factors for predicting the success of students entering the New York State College of Agriculture. *Ed. & Psychol. Measurement* 8: 389-395. Autumn, 1948. 280.68 Ed8
- 7170 HOEFER, A. Mission to Germany. *Natl. Co. Agent* 4(9): 10-12, 29. Sept. 1948. 275.28 N213 Extension work.
- 7171 HOFFER, C. R. Health and health services in three Michigan communities. *Mich. Agr. Expt. Sta. Q. B.* 31: 91-108. Aug. 1948. 100 M58S
- 7172 HOWARD, D. J. Vocational agriculture faces the future. *Agr. Ed. Mag.* 21: 80-81. Oct. 1948. 275.8 Ag8
- 7173 HOWEY, R. Launching freshman boys into vocational agriculture. *Agr. Leaders' Digest* 29(9): 30, 32, 34. Sept. 1948. 275.28 Am3
- 7174 IVANOVICH, K. A., ed. *Vospitanie studenta v vysshei sel'skokhozjaistvennoi shkole* [Student training in the highest agricultural school]. Moskva, 1947. 114 p 275.1 Iv1
- 7175 JOHNSON, A. W. Competitive events in Montana. *Agr. Ed. Mag.* 21: 94. Oct. 1948. 275.8 Ag8
- 7176 JOHNSON, E. J. Adjustments in national contests. *Agr. Ed. Mag.* 21: 76. Oct. 1948. 275.8 Ag8
- 7177 JOOSTEN, J. H. L. Reconstruction of agricultural education in Indonesia. (In Dutch.) *Landbouw* 19: 429-445. Aug./Sept. 1947. 22.5 L23 English summary.
- 7178 KIRKLAND, J. B. In-service training of teachers of institutional on-farm classes. *Agr. Ed. Mag.* 21: 83, 87. Oct. 1948. 275.8 Ag8
- 7179 KNECHT, J. Die berufliche ausbildung der landwirtschaftlichen jugend. *Württemb. Wchnbl. f. Landw.* 115: 208. Aug. 7, 1948. 18 W96
- 7180 KOCH, H. Was ist demokratie? III. *Landarbeiter Arch.* 3: 164-167. June 1948. 283.8 L23
- 7181 KOEHL, H. C., JR. Growth of Wharton County [Texas] fair. *Amer. Brahman J.* 3(6 i.e.7): 15-16. Oct. 1948. 43.8 Am33
- 7182 LECHNER, F. G. Five reasons why lesson plans will help. *Agr. Ed. Mag.* 21: 78-79. Oct. 1948. 275.8 Ag8
- 7183 LENO VALENCIA, J., HARO, C. DE, and LÓPEZ MERLO, R. Enseñanza agrícola. *Congreso Sindical de la Tierra. Estudios y Conclusiones* 1948: 71-85. 281.9 C7664 Spain.
- 7184 LEONARD, H. W. Lesson planning as observed in the field. *Agr. Ed. Mag.* 21: 77, 93. Oct. 1948. 275.8 Ag8
- 7185 MA, P. C. A brief account of the MOAF [Ministry of Agriculture and Forestry] Library. *China. Min. Agr. and Forestry. Misc. P.* 1: 45-47. Apr. 1948. 22.5 C4412M
- 7186 MCCARTHY, S. A. Administrative organization and financial support of land-grant college and university libraries. *Col. & Res. Libr.* 9: 327-331. Oct. 1948. 243.8 C68
- 7187 MCDONALD, A. How the U.S.D.A. helps you. *N. Dak. Union Farmer* 15(5): 3. July 5, 1948. 280.28 N812
- 7188 MACFADYEN, SIR E. Work of Imperial College of Tropical Agriculture. *Crown Colonist* 18: 555-558. Oct. 1948. 280.8 C88
- 7189 MCMASTER, A. "Are we to lose our nurse?" Implications of the National Health Service Act, 1948. *Village* 3(3): 15-17. Autumn, 1948. 281.8 V71 Great Britain.
- 7190 MANN, D. What can you believe about rural schools? *Kans. Farmer* 85(19): 5, 36, 37, (20): 7-9. Oct. 2, 16, 1948. 6 K13
- 7191 MARESCALCHI, A. Illiteracy and rural schools. (In Italian.) *Ital. Vinic. ed Agr.* 38: 169-171. Aug. 15, 1948. 95.8 It1
- 7192 MARSTON, B. W., and BAIRD, M. Now we demonstrate. *Wyo. Agr. Col. Ext. C.* 62, rev., 21 p. Apr. 1947. 275.29 W99C
- 7193 MAYER-SCHALBURG, R. Rückblick auf die Frankfurter Ausstellung 1948. *Neue Mitt. f. die Landw.* 3: 310-311. Oct. 5, 1948. 18 N39
- 7194 MILLER, E. Carry yourself with pride. *Utah. State Agr. Col. Ext. B.* 171, 27 p. Aug. 1948. 275.29 Ut1
- Health practices for 4-H club groups.
- 7195 MORIARTY, J. H. Needed reference services for American agriculture. *Col. & Res. Libr.* 9: 318-322. Oct. 1948. 243.8 C68
- 7196 NEAL, R. V. The preparation and distribution of teaching materials for use in the institutional on-farm training program in Georgia. *Agr. Ed. Mag.* 21: 84, 93. Oct. 1948. 275.8 Ag8
- 7197 PESCE, G. For the health of the farm laborer. (In Italian.) *B. dell'Agr.* 82(16): 2. July 30, 1948. 16 B87 Italy.
- 7198 PRATOLONGO, U. Advanced agricultural instruction and its task. (In Italian.) *Humus* 4(2): 13-14. Feb. 1948. 16 H88
- 7199 RICHARDSON, B. T. Workers in subjects pertaining to agriculture in land-grant colleges and experiment stations, 1947-48. *U. S. D. A. Misc. P.* 649, 168 p. June 1948. 1 Ag84M
- 7200 ROBERTS, H. W. The rural negro minister: his educational status. *J. Negro Ed.* 17: 478-487. Fall, 1948. 275.8 J827
- 7201 ROBINSON, D. H. Farm training in the B.A.O.R.; the work of the Rhine Army School of Agriculture. *Field* 192: 183-184. Aug. 14, 1948. 10 F45
- 7202 RODALE, J. I. The church and the farmer—a plan! *Organic Gard.* 13(4): 12-14. Oct. 1948. 56.8 Or3
- 7203 RUSSELL, M. In Colorado more than 2,5000 ex-GIs OK veterans' farm training. *Colo. Rancher & Farmer* 2(18): 1, 5, 25. Sept. 25, 1948. 6 C714
- 7204 SACAY, F. M., MEESUKH, C., and SHRIBHIBHADHNA, P. A comparative study of certain characteristics of first-year students in agricultural, rural, and academic high schools. *Philippine Agr.* 31: 305-310. Apr./June 1948. 25 P542
- 7205 SATTERFIELD, M. H. Trends in rural local government in the South. *J. Politics* 10: 510-535. Aug. 1948. 280.8 J827
- 7206 SERA SERRANO, J. M. Higiene rural. *Almanaque Campesino del ABC* 8(8): 25-31. Jan. 1948. 8 AL63
- 7207 SHEPPARD, R. The village school of tomorrow. *Village* 3(3): 12-14. Autumn, 1948. 281.28 V71 Great Britain.
- 7208 SINGSAAS, K. The center for world agriculture in four days; impressions from the big agricultural exhibition in York. (In Norwegian.) *Norsk Landbr.* 14: 293-295. Aug. 6, 1948. 11 N8122
- 7209 SLOAN, F. S. Reflections in the mirror. *Ext. Serv. Rev.* 19: 84, 95. Oct./Nov. 1948. 1 Ex892Ex Reports and report forms in extension work.
- 7210 SMITH, F. H. Progress of recreation in mountain communities. *Mountain Life & Work* 24(3): 15-18. Fall, 1948. 281.28 M86
- 7211 SMITH, M. B. Comparison of the educational attainments of rural and urban populations of the Southwest. *Southwest. Social Sci. Q.* 29: 125-136. Sept. 1948. 280.8 So82
- 7212 SNYDER, C. The church sets the pattern for community living. *Mountain Life & Work* 24(3): 18-19. Fall, 1948. 281.28 M86
- 7213 SOUTH CAROLINA. CLEMSON AGRICULTURAL COLLEGE. EXTENSION SERV. Agricultural progress in South Carolina; annual report of director, cooperative extension work, 1947. *Clemson, 1948?* 63 p. 275.29 So8A
- 7214 SPENCER, S. M. We need more country doctors. *Sat. Evening Post* 221(15): 36-37, 54, 59, 61-62, 64. Oct. 9, 1948. 110 Sa8
- 7215 TARLETON, C. F. Extension paves the way. *Carolina Co-op.* 26(10): 16-17, 30. Oct. 1948. 72.8 N81
- 7216 TAYLOR, C. Socio-pedagogic survey and its role in the work of reforming rural education. (In Portuguese.) *Agronomia [Rio de Janeiro]* 6: 215-220. July/Sept. 1947. 9.2 Ag892
- 7217 TELANG, M. A. A note on the health conditions in the districts of Bombay Province. *Bombay. Bur. Econ. & Statis. B.* 1(4): 10-49. 1948. 269.54 Ec7
- 7218 TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. The seventh year of record production; annual report of the Texas A. & M. College Extension Service, 1947. *College Station, 1948.* 20 p. 275.29 T312A



7219 TOOTELL, R. B. "See your county agent"; extension's 30 years of service in Montana. *Mont. Farmer-Stockman* 36(4): 8. Oct. 15, 1948. 6 M764

7220 TOPPAN, L. C. The Pelham Rural Fellowship. *Town & Country Church* 46: 1-2. Oct. 1948. 281.28 T66

7221 TORRES, A. DI P. Observations on the Luiz de Queiroz School of Higher Agriculture. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 258-263. July/Aug. 1948. 9.2 R324

7222 TORRES FILHO, A. The Universidade Rural [Rio de Janeiro]. (In Portuguese.) *Lavoura* 52: 44-46. Mar./Apr. 1948. 9.2 L39

7223 TUNG, T. H. Coordination of agricultural education, research and extension work. *China. Min. Agr. and Forestry. Misc. P.* 1: 41-44. Apr. 1948. 22.5 C4412M

7224 U. S. DEPT. OF AGRICULTURE. Graduate School bulletin; catalog issue, 1948-49. Washington, 1948. 139 p. 1 Ag854E

7225 U. S. EXTENSION SERV. The Extension Family Life Work Conference, May 10-15, 1948. Washington, 1948. 64 p. 1.913 C3F212

7226 U. S. EXTENSION SERV. A partial list of craftsmen and handicraft groups in the United States. Supplement No. 1. Washington, 1948. 2 p. 1.913 A2P255

7227 U. S. EXTENSION SERV. The South observes National Home Demonstration Week, by M. Hogan. Washington, 1948. 12 p. 1.913 H2S08

7228 UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. 4-H for health. *Utah. State Agr. Ext. B.* 169, 10 p. June 1948. 275.29 Utl

7229 UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. Utah extension service work in 1947. *Utah. State Agr. Col. Ext. B.* 160, 39 p. June 1948. 275.29 Utl

7230 VARGAS, L. Las epidemias y las estaciones del año. *Cult. Mod.* 31: 302. Aug. 1948. 15 C89

7231 VILLEGAS QUIJANO, C. Importancia de las industrias económicas en el mejoramiento de la vida campesina. *Cuba. Min. de Agr. Rev. (ser. 6)* 31(1): 33-35. Jan./June 1948. 8 Ag88Re

7232 WEEKS, W. F. Your agricultural extension service. *Spreckels Sugar Beet B.* 12: 38-39. Sept./Oct. 1948. 66.8 Sp7

7233 WELLMANN, F. K. Bausteine für die land-schule. *Neue Mitt. f. die Landw.* 3: 106. Apr. 5, 1948. 18 N39  
Germany.

7234 WOOD, H. E. A GI's on farm training. *Natl. Co. Agent* 4(9): 22. Sept. 1948. 275.28 N213

#### Leadership

7235 HOLLANSWORTH, J. Rural youth in training. *Hoosier Farmer* 33(9): 9, 14-15. Sept. 1948. 280.82 H76

Leadership training.

7236 LEAGANS, J. P. Do you know farm facts—do you know farm people? *Better Farming Methods* 20(10): 15, 44, 48. Oct. 1948. 58.8 B46

Leadership.

7237 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Handbook for 4-H Club leaders. *Md. Agr. Col. Ext. B.* 117, 54 p. Mar. 1947. 275.29 M36B

7238 NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 4-H junior leadership project. *N. J. Agr. Col. Ext. Leaflet* 15, 6 p. Apr. 1948. 275.29 N46L

7239 U. S. EXTENSION SERV. The local leader's relationship to the 4-H Clubs. Washington, 1948. 2 p. 1.913 F3L782

#### Rural Organizations and Movements

7240 AAGAARD, F. The creation of the farm movement 100 years ago. (In Danish.) *Andelsbladet* 49: 1151-1154. Sept. 23, 1948. 280.28 An2

7241 ANDERSEN, L. Co-operation in Denmark. *Brisbane, Co-op. Union of Queensland*, 1947. 7 p. 280.2 An23

7242 BERICHTe von der frühjahrstagung der DLG. [Deutscher Landwirtschafts-Gesellschaft] in Wiesbaden. *Neue Mitt. f. die Landw.* 3: 145-146, 161-162. (Cont.) May 21-June 5, 1948. 18 N39

7243 BERTHAULT, P. Les chambres d'agriculture. *Rev. Agr. de l'Afrique du Nord* 46: 327. July 2, 1948. 80 R328

7244 BITTENCOURT, O. V. DE C. Consumer co-operatives and colonization of labor. (In Portuguese.) *Cooperativismo [São Paulo]* 6(78): 8. Mar. 1947. 280.28 C7872

7245 BLUCK, W. L. Members need you—but do they want you? *News Farmer Coops.* 15(7): 11, 22. Oct. 1948. 166.2 N47

Cooperative membership relations.

7246 BRING, S. E. List of publications of the agricultural societies as well as information on the organization of the societies. (In Swedish.) *K. Lantbruksakad. Tidskr.* 87: 216-219. 1948. 104 Sw3

7247 BRISCOE, S. Negro 4-H Camp. *Ext. Serv. Rev.* 19: 93. Oct./Nov. 1948. 1 Ex892Ex

7248 BRODY, C. L. Farm co-ops in a critical period of their existence. *Mich. Farm News* 26(10): 5-6. Oct. 2, 1948. 6 M586

7249 CASTAÑEDA, V. E. Sociedades cooperativas. *Cám. de Com. e Indus. de Tegucigalpa* 2(20): 19-29. (To be cont.) July 1948. 287 T23

7250 CATALINA, L. Cooperativas agrícolas de producción. *Cult. Mod.* 31: 254-255. July 1948. 15 C89

7251 CUVILLIER-LANCHE. La révision et le contrôle des comptabilités des coopératives agricoles. *Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr.* (1947)29: 137-151. 1948. 280.29 C761929

7252 DELAWARE STATE GRANGE. PATRONS OF HUSBANDRY. Proceedings of the seventy-third annual session, Newark, Delaware, December 9th-10th, 1947. n. p., 1948. 82 p. 4 D372P

7253 DIGBY, M. Co-operation, what it means and how it works. London, Longmans, Green, 1947. 96 p. Ref. 280.2 D562C  
Agricultural.

7254 DUGGAN, I. W. Caution advised in co-op building expansion while costs are soaring. *Sunsweet Standard* 32(5): 7. Oct. 1948. 286.83 Su7

7255 DUGGAN, I. W. Don't just ride along! *Egg-saminer* 25(9): 5. Sept. 1948. 286.85 Eg32  
Cooperative membership.

7256 DUGGAN, I. W. Too large advance payment endangers co-op financially. *Sunsweet Standard* 32(4): 12. Sept. 1948. 286.83 Su7

7257 EDMONDS, C. C. True cooperative vs. pseudo cooperative. *Washcoegg* 26(4): 4. Sept. 1948. 47.8 W27

7258 ESKELAND, A. Norwegian Institute of Agricultural Economy. (In Norwegian.) *Norsk Landbr.* 14: 68-69. Feb. 20, 1948. 11 N8122

7259 FARACO, D. Commerce and cooperation. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 3(25): 8, 10, 23, 27. July 1948. 280.28 C7856

Rural.

7260 FARRINGTON, R. L. To keep on the beam use credit soundly. *News Farmer Coops.* 15(7): 10, 20-21. Oct. 1948. 166.2 N47

Cooperative financing.

7261 FILION, L. L'administration des coopératives. *Ensemble!* 9(7/8): 14-15. Aug./Sept. 1948. 280 En7

7262 FORTIER, R. Co-operative associations among French-speaking groups in Ontario. *Econ. Annal.* 18: 56-60. Aug. 1948. 281.8 Ec72

7263 FRENCH, J. N. 4-H work going strong in Morgan County [Colorado]. *Through Leaves* 26, 1. e. 36 (4): 36-37. July/Aug. 1948. 66.8 T41

7264 HARDY, M. L'usager de la coopérative doit en être sociétaire. *Pelletteries du Québec* 19(10): 8. Aug. 1948. 412.628 P36

7265 HARTH TERRE, L. Clubs agrícolas juveniles. *Vida Agr.* 25: 691-694. Aug. 1948. 9.8 V66  
4-H clubs.

7266 HEINKEL, F. V. Farmers need better public relations; cooperatives must tell their story for better understanding. *Prod.-Consum.* 15(2): 3. Sept. 1948. 280.28 P942

7267 HERMANDEDES SINDICALES DE LABRADORES Y GANADEROS, ASAMBLEA NACIONAL, 2, MADRID, 1947. Conclusiones. Madrid? 1947? 73 p. 280.29 H422

7268 HILL, J. E. Many new FFA chapters. *Ill. Dept. Agr. Ann. Rpt.* 30: 82-87. 1947. 2 IL6R



- 7269 HODGEN, R. L. They seek new horizons. Ill. Dept. Agr. Ann. Rpt. 30: 88-92. 1947. 2 IL6R  
Future Homemakers of America.
- 7270 HOTCHKISS, J. C. Success with rural youth clubs. Macdonald Col. J. 8(12): 2-4. Aug. 1948. 101 M144
- 7271 HULBERT, L. S. Capper-Volstead Act—co-op magna charta, but no special privilege. News Farmer Coops. 15(7): 6, 17-18. Oct. 1948. 166.2 N47
- 7272 INTERNATIONAL LABOUR OFFICE. An abridged international directory of cooperative organizations. Geneva? 1948. 13 p. 225 In8Ab
- 7273 INTERNATIONAL LANDWORKERS' FEDERATION. Review of the position and activities of affiliated unions. n. p., 1948. 21 p. 283 In87
- 7274 JANSSON, F. Youth and the cooperative movement. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(16): 1, 13. Apr. 19, 1947. 11 J762
- 7275 KENYON, B. W., JR. What do you know about your FCX [Farmers Cooperative Exchange] stock? Carolina Co-op. 26(10): 16-17, 30. Oct. 1948. 72.8 N81
- 7276 KNAPP, J. G. Co-op leaders see good things ahead. News Farmer Coops. 15(7): 3-4, 22. Oct. 1948. 166.2 N47
- 7277 KOBLET, R. Bericht über die Tätigkeit der Eidg. Landwirtschaftlichen Versuchsanstalt Zürich-Oerlikon pro 1946/47. Landw. Jahrb. der Schweiz 62: 405-470. Ref. 1948. 17 L23
- 7278 KOPPARBERGS LÄNS HUSHÅLLNINGSSÄLLSKAP. Report of Kopparberg County Agricultural Society's activities etc. during the year 1947. (In Swedish.) Kopparbergs Läns Hushållningssällsk. Handl. 96: 54-106. Falun, 1947. 11 K83
- 7279 KVAPIL, M. "Kolo"—the club for Slavic university students graduating in the sciences of agriculture and forestry. (In Russian.) Interagra 2: 223-225. 1948. 28 In825  
English summary.
- 7280 LAMBERT, R. These women get the job done. West. Live Stock 34(2): 35, 136-138. Sept. 1948. 49 W523  
Sweetwater Home Demonstration Club, Gypsum, Colo.
- 7281 LECLERC, Les relations entre coopératives agricoles et coopératives de consommation. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 231-235. 1948. 280.29 C761929
- 7282 LJUNGMAN, D. Impressions from France. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(4): 3. Jan. 25, 1947. 11 J762  
Chiefly on cooperative organizations in France.
- 7283 LOUIS, R. La coopération agricole et le problème de la viande. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 197-206. 1948. 280.29 C761929  
France.
- 7284 LUZ FILHO, F. The cooperative movement and nutrition. (In Portuguese.) Lavoura 52: 12-13. Mar./Apr. 1948. 9.2 L39
- 7285 LYONNET. Note sur les principes de structure de la C. G. A. [Confédération Générale de l'Agriculture]. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 242-250. 1948. 280.29 C761929  
France.
- 7286 MACLEOD, W. A. Farm cooperation in western Canada. Town & Country Church 46: 14-15. Oct. 1948. 281.28 T66
- 7287 MARTIN, P. L'évolution de la coopération agricole en France. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 181-187. 1948. 280.29 C761929
- 7288 MITCHELL, S. D. Arkansas FFA passes in review. Prog. Farmer, Miss.-Ark.-La. Ed. 63(10): 30. Oct. 1948. 6 So81
- 7289 NATIONAL ASSOCIATION OF COOPERATIVES. They "fiddled" with co-ops: while the farmers burned! Chicago, 1947. 39 p. 280.29 N214
- 7290 NEW JERSEY STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 4-H parent. N. J. Agr. Col. Ext. Leaflet 12, 4 p. Dec. 1947. 275.29 N46L
- 7291 NOBLE, G. L. They are your tomorrow! Amer. Feed & Grain Dealer 32(8): 10-11. Sept. 1948. 298.8 C83  
4-H Clubs.
- 7292 OLIVER, C. F. A brief study of collegiate F.F.A. chapters. Agr. Ed. Mag. 21: 88-89. Oct. 1948. 275.8 Ag8
- 7293 OLLIER, and CHAMPIGNY. Les sociétés d'intérêt collectif agricole. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 251-281. 1948. 280.29 C761929
- 7294 PÁLSSON, P. A. International Federation of Agricultural Producers. (In Icelandic.) Freyr 43: 217-219. July 1948. 11 F89
- 7295 PICARD. La coopération dans la région des Charentes et du Poitou. Cong. Natl. de la Mutualité, de la Coop. et du Crédit Agr. (1947) 29: 305-316. 1948. 280.29 C761929
- 7296 PILCHARD, E. I. Boys' 4-H clubs increase. Ill. Dept. Agr. Ann. Rpt. 30: 69-77. 1947. 2 IL6R
- 7297 PINCHES, R. You can help tomorrow's customers today! Amer. Feed & Grain Dealer 32(8): 12-13, 21. Sept. 1948. 298.8 C83  
Feed dealer cooperation with 4-H Clubs.
- 7298 PLESSIS, C. V. H. DU. Organized agriculture against organized business; unfortunate phenomenon in our economic life. (In Afrikaans.) Landbouweekblad 30 (1517): 41, 43, 55. Aug. 4, 1948. 24 L232
- 7299 PRIESTLEY, N. F. Time for more rapid expansion is here. West. Farm Leader 13: 263, 267-268. Sept. 3, 1948. 280.28 W52  
Financing cooperatives.
- 7300 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. El comité de organización. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 27, 6 p. Jan. 1948. 275.29 P962
- 7301 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Los empleados de la cooperativa. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 30, 2 p. Feb. 1948. 275.29 P962
- 7302 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. El movimiento cooperativo. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 37, 20 p. Apr. 1948. 275.29 P962
- 7303 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Organizando cooperativas de consumo. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 25, 9 p. Jan. 1948. 275.29 P962
- 7304 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Resumen de la ley de cooperativas. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 11, rev., 3 p. Mar. 1947. 275.29 P962F
- 7305 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Los socios son los dueños de una cooperativa. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 14, 3 p. Feb. 1947. 275.29 P962F
- 7306 RATHBUN, H. H. Cooperatives have a job to do. Guide Post 25(9): 37. Sept. 1948. 75.8 G94
- 7307 RENOM, J. A. Asociaciones, federaciones y confederaciones. Res 16: 22647-22648. Sept. 5, 1948. 286.85 R31
- 7308 SAMVIRKENDE SJAELLANDSKE LANDBOFORENINGER. Report on the activities of the Cooperative Agricultural Organizations at Sjaelland in the years 1946 and 1947. (In Danish.) 1948. 246 p. 11 Z1Be
- 7309 SEARL, A. 4-H clubs are organized. Ill. Dept. Agr. Ann. Rpt. 30: 78-81. 1947. 2 IL6R
- 7310 SIGURÐSSON, J. Farmer cooperation and farmer festivals. (In Icelandic.) Freyr 43: 207-210. July 1948. 11 F89
- 7311 SIMS, J. W. You, your co-op, and \$2,000,000. Ohio Farm. Bur. News 28(2): 5. Sept. 1948. 6 Oh34
- 7312 SPRENGEL, A. Die aufgaben des landfrauen-ausschusses der DLG. Neue Mitt. f. die Landw. 3: 200. July 5, 1948. 18 N39
- 7313 ULREY, O. Graduate students study co-ops in seminar. News Farmer Coops. 15(7): 15, 21. Oct. 1948. 166.2 N47
- 7314 U. S. EXTENSION SERV. Aids for 4-H achievement observance, by G. L. Warren. Washington? 1948. 15 p. 1.913 F3Ac4
- 7315 VANNOY, J. 4-H Club manual in foods and cookery; demonstration No. 3. Ark. Agr. Col. Ext. C. 369, rev., 8 p. May 1947. 275.29 Ar4
- 7316 WINDISCH, J. Gewerkschaftliche propaganda. II. Landarbeiter Arch. 3: 161-164. June 1948. 283.8 L23



## RURAL SOCIAL PSYCHOLOGY

- 7317 RENSHAW, B. Indiana farmers ask Assembly to outlaw fast time. *Prairie Farmer*, Ind. Ed. 120(22): 1, 7, 21. Oct. 23, 1948. 6 P883C

## TRADE, FOREIGN AND INTERNATIONAL

- 7318 AUSMAN, L. H. Belgian Congo offers small market for seed potatoes in present shortage. *Foreign Trade* 4: 816-817. Oct. 23, 1948. 286.8 C162
- 7319 BIRKETT, C. B. Coffee continues to constitute main export from Guatemala. *Foreign Trade* 4: 682-683. Oct. 2, 1948. 286.8 C162
- 7320 BOOTH, F. H. The U.S.A. tariff on wool. *Austral. Q.* 19(4): 68-77. Dec. 1947. 280.8 Au7
- 7321 BORTON, J. C. Private trade in foreign aid; a businessman's manual on E. C. A. Charlottesville, Va., Michie, 1948. 320 p. 280 B646
- 7322 BRYAN, A. E. Great Britain seeking more agricultural produce from Eire under agreement. *Foreign Trade* 4: 761. Oct. 16, 1948. 286.8 C162
- 7323 BULGARIA. DIRECTION GÉNÉRALE DE LA STATISTIQUE. Statistique du commerce extérieur. Sofia, 1948. 169 p. 267.3 St2C  
Text in Bulgarian and French.
- 7324 COLOMBIA. CONTRALORIA GENERAL. Anuario de comercio exterior, 1946. Bogotá, 1948. 954 p. 255.5 C712
- 7325 DIEGUES JUNIOR, M. Sugar trade of Brazil in the XVI and XVIII centuries. (In Portuguese.) *Brasil Açucareiro* 31: 647-650. June 1948. 65.8 B73
- 7326 GIBERTI, H. The International Wheat Agreement. *Rev. River Plate* 104(2963): 14-16. Sept. 24, 1948. 286.8 R32
- 7327 GORNALL, W. B. Canada still principal supplier of foodstuffs to United Kingdom. *Foreign Trade* 4: 614-615. Sept. 25, 1948. 286.8 C162
- 7328 GRAY, L. What exactly is Benelux? *Farmer & Stock-Breeder* 62: 1873. Aug. 10, 1948. 10 F228
- 7329 HARRIS, J. New world wants our sheep, but only the best. *Farmer & Stock-Breeder* 62: 2297. Oct. 5, 1948. 10 F228  
Exports possibilities from England.
- 7330 HENNESSEY, J. F., JR. National economy of Brazil. I. Foreign trade and public finance. *Com. Pan Amer.* 181, 73 p. July 1948. 280.8 C736
- 7331 HOOKER, A. A. The need for a world [grain] market. *Broomhall's (George) Corn Trade News* 188: 65. Oct. 21, 1948. 286.81 B79B
- 7332 HOUT, F. VAN. A ministerial resolution with regard to export, import and storage of eggs. (In Flemish.) *Cult. en Handel* 14: 446-447. July 1948. 80 C892 Belgium.
- 7333 ICELAND. HAGSTOFA. Statistique du commerce en 1946. (In Icelandic.) *Hagskýrslur Íslands. Verzlunarskýrslur* 126, 135 p. Reykjavík, 1948. 257.12 H12V  
Table of contents and tables also in French.
- 7334 INTERNATIONAL COTTON ADVISORY COMMITTEE. Regulations of governments affecting international trade in raw cotton. Washington, 1948. 3 p. 286.372 In8Re
- 7335 KELLER, J. C. Peanut export allocations high. *Peanut J. and Nut World* 27(12): 29, 44. Oct. 1948. 77.8 P313
- 7336 KROESE, W. T. Recent developement in the export of our [Dutch] cotton manufactures. I. (In Dutch.) *Econ.-Statist. Ber.* 33: 710-713, 747-749. Sept. 8, 1948. 280.8 Ec722  
Summary in English, p. 703, 743.
- 7337 LONG, M. E. Bilateral trade arrangements of the United Kingdom. *Foreign Agr.* 12(9): 199-205. Sept. 1948. 1.9 Ec7For
- 7338 LOVISETTI, G. The customs union between Italy and France. (In Italian.) *Agricoltura [Milano]* 29 (37): 1. Sept. 11, 1948. 16 Ag862
- 7339 MACDONALD, S. G. Danish exports of butter and eggs higher, but bacon and cheese shipments down. *Foreign Trade* 4: 760-761. Oct. 16, 1948. 286.8 C162
- 7340 MACFARLANE, D. L. Can we continue to sell? What will happen when E.R.P. comes to an end? *Canad. Countryman* 37(21): 5, 42-43. Oct. 16, 1948. 7 C833
- 7341 MALTA. MINISTER FOR TRADE AND CUSTOMS. Trade statistics, customs, 1947, seventy-second year. Malta, 1948. 104 p. 256.02 M29C

- 7342 MARESCALCHI, A. The Italian-French customs union and wine and agricultural interests. (In Italian.) *Ital. Vinic. ed Agr.* 38: 73-74. Apr. 15, 1948. 95.8 It1

- 7343 MEISSNER, F. A historical review of Danish agricultural trade policy. *Interagra* 2: 211-216. 1948. 28 In825

- 7344 MONZO COLL, A. De vitivinicultura. Comentarios al convenio comercial con Francia. *Agr. Levantino* 14(164): 17. July 1948. 15 Ag85

- 7345 ORIZET, L. Le contrôle à l'exportation. *Bourguignon Vitic.* 43: 1-2. June 1948. 95.8 B66

- 7346 POWEL, H. R. Fruit and vegetable shipments to Singapore. *West. Austral. Dept. Agr. J.* (ser. 2) 25: 157-185. June 1948. 23 W52J

- 7347 PURSER, R. Canadian potatoes go abroad. *Family Herald & Weekly Star* 79(39): 3. Sept. 29, 1948. 7 F21

Certified seed potatoes.

- 7348 RICHARDS, A. E. The charter for an international trade organization and the general agreement on tariffs and trade. *Econ. Annal.* 18: 61-65. Aug. 1948. 281.8 Ec72

- 7349 SAUERLANDER, O. H. Wool and the tariff. *Iowa State Col. Agr. Ext. Iowa Farm Sci.* 3(4): 8-10. Oct. 1948. 275.28 Io94

- 7350 SMITH, R. S. Plain facts of a season's wool trade; record high return. *Farmer & Settler* 43(27): 3. Aug. 6, 1948. 23 F226  
In Australia.

- 7351 SWEDEN. KONTROLLSTYRELSEN. Industries sujettes à l'accise (la fabrication d'eau-de-vie, de bière et de limonades ainsi que le débit de marchandises, sur lesquelles il y a une taxe de luxe, etc.) en 1946/47. (In Swedish.) Stockholm, 1948. 20 p. 390.1 Sw3A  
French summary.

- 7352 SWITZERLAND. EIDGENÖSSISCHE OBER-ZOLLDIREKTION. Jahresstatistik des aussenhandels der Schweiz; Statistique annuelle du commerce extérieur de la Suisse, 1947. Berne, 1947. V. 2, 349 p. 262 Z7S

- 7353 SYKES, P. Russia principal purchaser of rubber produced in Malaya. *Foreign Trade* 4: 494-497. Sept. 11, 1948. 286.8 C162

- 7354 TORRES FILHO, A. The Brazil-Argentine treaty of 1941. (In Portuguese.) *Lavoura* 52: 3-6. May/June 1948. 9.2 L39

Includes trade of agricultural products.

- 7355 TYSSER, H. F. Citrus trade affected by Palestine situation. *Farmer's Weekly [Bloemfontein]* 75: 113. Aug. 25, 1948. 24 F225

- 7356 UNITED STATES. TARIFF COMMISSION. Summaries of tariff information; v. 9. Cotton manufactures. Washington, 1948. 224 p. 173 T17Su

- 7357 VAN TIGHEM, C. J. Exports of products from Ecuador at all-time high last year. *Foreign Trade* 4: 616-619. Sept. 25, 1948. 286.8 C162

- 7358 VAN TIGHEM, C. J. Peru suffers exchange shortage due partly to food imports. *Foreign Trade* 4: 808-811. Oct. 23, 1948. 286.8 C162

- 7359 WILCOX, F. R. Food export situation. *Calif. Fruit News* 118(3142): 4-5. Sept. 25, 1948. 80 C12

- 7360 YANG, E. C. China's trade and trade policy in the last two years. (In Chinese.) *Cent. Bank Monthly* 3(6): 12-16. June 1948. 280.9 C335

- 7361 YAO, H. H. The foreign trade of north China: a statistical study. (In Chinese.) *Cent. Bank Monthly* 3(6): 17-70. June 1948. 280.9 C335

## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 7362 ARNICHES, F. El problema de la alimentación. *Aliment. Nac.* 7(121): 4-5. June 10, 1948. 389.8 AL42



- 7363 BREIREM, K. Is a nutritional recovery possible in western Europe? (In Norwegian.) Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Føring-slære. Særtrykk 63, 11 p. Oslo, 1948. 389.79 N76
- 7364 CLAYTON, C. Keeping up to date on nutrition. *Pract. Home Econ.* 26: 682, 708-709. Nov. 1948. 321.8 H752
- 7365 COSTA, D. Les différents facteurs de l'utilisation du calcium alimentaire. *Soc. de Chim. Biol. B.* 30: 319-322. May/June 1948. 383 So1
- 7366 CZAJKOWSKI, J. M. Preparing frozen foods for your table. *Conn. Agr. Col. Ext. Folder* 23, 8 p. Apr. 1948. 275.29 C76Ex
- 7367 DURAND, G. Pueden los niños morir de hambre? *Agrario* 13(400): 15. Apr. 1948. 9.3 Ag85
- 7368 FLANAGAN, T. G. Growing in wisdom and stature through school lunch experiences. *Nutr. News* 12 (1): 3-4. Oct. 1948. 389.8 N957
- 7369 FLOORE, F. B. School lunches in Palestine. *Amer. Dietet. Assoc. J.* 24: 872, 874. Oct. 1948. 389.8 Am34
- 7370 GOBLE, C. Let mothers help in your lunchroom. *Pract. Home Econ.* 26: 685, 707. Nov. 1948. 321.8 H752
- 7371 GOODHART, R. S. Nutrition programs for industrial workers. *Nutr. Revs.* 6: 289-291. Oct. 1948. 389.9 N953
- 7372 HARRIS, R. S. The role of staple foods in nutrition. *Macaroni J.* 30(6): 6-7, 36, 38, 40. Oct. 1948. 298.8 N46
- 7373 HIPSLEY, E. H. The New Guinea nutrition survey expedition, 1947. *Austral. Inst. Anat. Food & Nutr. Notes & Rev.* 5: 61-66. May/June 1948. 389.9 Au73
- 7374 HISCOCK, E. A. A nutrition clinic for medical students. *Amer. Dietet. Assoc. J.* 24: 782, 784. Sept. 1948. 389.8 Am34
- 7375 HODGSON, J. G. The use of periodicals in a special field: nutrition. *Colo. State Col. Libr. Libr. B.* 19, 6 p. 1948. 241.64 H662
- 7376 HOULE, C. O. The dietitian as a teacher of adults. *Amer. Dietet. Assoc. J.* 24: 837-840. Oct. 1948. 389.8 Am34
- 7377 HURLEY, C. Eat right, live longer. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 3(3): 11-12. Sept. 1948. 275.28 Io94
- 7378 ILLINGWORTH, F. Eskimo foods for the polar soldier. *New Health* 23(9): 2-3. Sept. 1948. 449.8 N45
- 7379 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 1947 National 4-H food preparation program. Urbana? 1947. 6 p.-folder. 275.2 IL62On
- 7380 KALLOCK, C. W. Valuable school lunch foods from USDA. *Pract. Home Econ.* 26: 617, 632, 649. Oct. 1948. 321.8 H752
- 7381 KELLER, M. M. Balanced lunches for better learning. *Ill. Agr.* 53: 7, 8. Oct. 1948. 6 IL6
- 7382 KELLOGG, J. H. Diet of young children (one to five years of age). *Veg. Messenger & Health Rev.* 45: 187-190. Sept. 1948. 389.8 V522
- 7383 KOHR, L. Milk and child development. *Amer. Milk Rev.* 10(10): 28, 30. Oct. 1948. 44.8 Am38
- 7384 MCCAY, C. M., and TODHUNTER, E. N. A century of progress in nutrition. *Amer. Dietet. Assoc. J.* 24: 737-743. Ref. Sept. 1948. 389.8 Am34
- 7385 MCCOLLUM, E. V., and BECKER, J. E. Food, nutrition and health. Ed. 6, mostly rewritten. Baltimore, 1947. 146 p. 389.1 M13F
- 7386 MARTIN, E. A. Nutrition research in the dairy industry. *Canad. Dairy & Ice Cream J.* 27(8): 33-37, 72. Aug. 1948. 44.8 C162
- 7387 MÅSEK, J. Dietetic kitchens in Czech communal catering. *Nutr. Dietet. Catering* 2: 89-92. Autumn 1948. 389.8 N959
- 7388 MILLER, E., and SHIPLEY, F. "Learn about luncheons," 4-H Foods Project—Phase II. *Utah. State Agr. Col. Ext. B.* 170, 30 p. June 1948. 275.29 Ut1
- 7389 MOORE, T. What is malnutrition? Some informal reflections on one of the dietitian's most puzzling problems. *Nutr. Dietet. Catering* 2: 83-88. Autumn 1948. 389.8 N959
- 7390 NUTRITION FOUNDATION, INC. Report of scientific director, June 30, 1948. N. Y., 1948. 101 p. 389.9 N95
- 7391 OHLSON, M. A., and others. Studies of the protein requirements of women. *Amer. Dietet. Assoc. J.* 24: 744-749. Ref. Sept. 1948. 389.8 Am34
- W. D. Brewer, D. C. Cederquist, L. Jackson, E. G. Brown, and P. H. Roberts, joint authors.
- 7392 PENDERGAST, W. S. What the school lunch means to the community. *What's New Home Econ.* 13(2): 120-122, 124. Oct. 1948. 321.8 W55
- 7393 SACHSSE, H. Die deutsche volksernährung. Künstliche oder natürliche nahrung? *Natur u. Nahr.* 2(11/12): 15-16. June 1948. 80 N218
- 7394 SHILLING, C. W., and DUFF, I. F. Analysis of submarine food problems in World War II. *U. S. Nav. Med. B.* 48: 683-697. Sept./Oct. 1948. 153.45 Un3
- 7395 SIMPSON, J. I. The frozen food cook book. New York, Simon and Schuster, 1948. 493 p. 389.25 S15
- 7396 SLATER, E. C. Foods and foodstuffs in the Australian dietary. II. (Extract.) *Austral. Inst. Anat. Food & Nutr. Notes & Rev.* 5: 67-72. May/June 1948. 389.9 Au73
- 7397 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Small equipment for the school lunch. U. S. D. A. PA-59, 8 p. Sept. 1948. 1 Ag84Pro
- U. S. Production and Marketing Administration cooperating.
- 7398 VANNOY, J. 4-H Club manual in foods and cookery; demonstration No. 2. *Ark. Agr. Col. Ext. C.* 368, rev., 12 p. May 1947. 275.29 Ar4
- 7399 WILLIAMS, H. H. Nutrition research points way to better food production. *Farm Res. [N. Y. State Sta.]* 14(4): 3. Oct. 1948. 100 N48A
- 7400 WILSON, J. R. The teaching of nutrition in schools of medicine. *Amer. Dietet. Assoc. J.* 24: 779, 780, 782. Sept. 1948. 389.8 Am34

## FOOD HABITS

- 7401 BURGER, S. Food ways: foreign or American. Forecast for Home Econ. 64(11): 54. Nov. 1948. 321.8 F76
- 7402 BYWATER, H. E. Meat other than those kinds normally sold by butchers. *Vet. Rec.* 60: 420. Aug. 28, 1948. 41.8 V641
- Food habits in meat consumption.
- 7403 HELLER, C. A. Nutrition survey among Alaskan Eskimos shows diet habits are deteriorating. *Nutr. News* 12(1): 3. Oct. 1948. 389.8 N957
- 7404 KITTRELL, F. P. Liberians do not eat enough of right foods. *Service* 13(2): 15-16. Sept. 1948. 280.8 Se62
- 7405 LOWENBERG, M. E. Foods children like. *Hygeia* 26: 792-793, 830-831. Nov. 1948. 449.8 H993
- 7406 MORRIS, J. G. This is how the world eats. *Ladies' Home J.* 65(11): 72-73. Nov. 1948. 321 L12
- 7407 RADKE, M. Methods of changing food habits. *Certified Milk* 23(10): 13-14. Oct. 1948. 44.8 C33

## NUTRITIVE AND VITAMIN CONTENT

- 7408 BRANT, D. O. Dairy products in the prevention of polio. *Calif. Dairyman* 28(18): 16-18. Oct. 9, 1948. 44.8 C12
- Nutritive value.
- 7409 CASSITTO, R. V. Las hortalizas en la alimentación y en la terapéutica. *Vinos, Viñas y Frutas* 44(514): 73-75. July 1948. 9 Ag89
- 7410 CHARKEY, L. W. The nutrient content of high and low quality fresh eggs. III. Mucin in relation to tryptophan. (Abs.) *Poultry Sci.* 27: 656. Sept. 1948. 47.8 Am33P
- 7411 CHEN, S. D., ELI IOTT, K. J., and SCHUCK, C. Total, dehydro, and reduced ascorbic acid in cantaloupes. *Amer. Dietet. Assoc. J.* 24: 863-865. Oct. 1948. 389.8 Am34
- 7412 CRANG, A., JAMES, D. P., and STURDY, M. The retention of ascorbic acid in preserved fruits. *Chem & Indus.* 1948: 583-585. Sept. 11, 1948. 382 M31C
- 7413 CREPIN, P. Le lait de chèvre contre l'albumerie. *Mouton* 3: 7. Jan. 10, 1948. 45.8 M86
- 7414 DEVADATTA, S. C., and VARADAN, K. S. A study of the nutritive value of proteins and mineral contents of some varieties of fish found in Bombay. *Bombay. U. J., Sect. A, Phys. Sci. (n. s.)* 16(5): 56-62. Ref. Mar. 1948. 513 B633



7415 DRUMMOND, SIR J. Fats in the life of a nation. *New Health* 23(9): 6-7, 10. Sept. 1948. 449.8 N45

7416 EHEART, J. F. Factors affecting the vitamin content of certain food crops. (Abs.) *Va. Acad. Sci. Proc.* 1947/48: 68-69. 1948. 500 V81 Vegetables.

7417 EHEART, M. S., and SHOLES, M. I. Nutritive value of cooked, immature and mature cowpeas. *Amer. Dietet. Assoc. J.* 24: 769-772. Ref. Sept. 1948. 389.8 Am34

7418 FISCHER, J. E., and SUTTON, T. S. Some physiological effects of dietary lactose. (Abs.) *J. Dairy Sci.* 31: 716-717. Aug. 1948. 44.8 J822

7419 HENDERSON, H. B. Ice cream is a food. *Ice Cream Field* 52(4): 114-115. Oct. 1948. 389.8 Ic23

7420 HUSSERL, H. The value of honey as a food and medicine. *So. African Bee J.* 23(3): 3-4. (Cont.) Aug. 1948. 424.8 So82

7421 HVIDSTEN, H., HANSTEEN, L. G., and BROCH, G. Further investigations on the content of vitamin A and carotene in Norwegian milk and butter. (In Norwegian.) *Norges Landbrukshøgsk. Inst. f. Husdyrernæring og Fôringslære. Særtrykk* 64, 16 p. Oslo, 1948. 389.79 N76

English summary.

7422 KITUNEN, E. Über die gegenseitige wechselwirkung der vitamine und ihre abhängigkeit von verschiedenen nahrungsmitteln. (In Finnish.) *Suomen Kemistilehti. B.* 21: 146-152. 1948. 385 Su7

7423 KUIKEN, K. A., and LYMAN, C. M. Availability of amino acids in some foods. *J. Nutr.* 36: 359-368. Ref. Sept. 10, 1948. 389.8 J82

7424 LACTRONE, G. N. B. H. Vitamine, eine wichtige gruppe der heilstoffe in der milch. *Nürnberg, 1947?* 12 p. 389.1 L11

7425 MISRA, U. C., and PATWARDHAN, V. N. The nutritive value of hydrogenated vegetable oils. The digestibility of ground-nut (*Arachis hypogea*) oil hydrogenated to different degrees of hardness. *Indian J. Med. Res.* 36(1): 27-31. Ref. Jan. 1948. 448.8 In22

7426 NATH, N., and others. Further studies of the nutritive value of butterfat fractions. *J. Dairy Sci.* 31: 793-796. Sept. 1948. 44.8 J822

V. H. Barki, C. A. Elvehjem, and E. B. Hart, joint authors.

7427 ROJENT, I. Valor alimenticio y energético de la zanahoria. *Cult. Mod.* 31: 291. Aug. 1948. 15 C89

7428 SHEETS, O. Vitamins found in plants which survived winter. *Miss. Farm Res. [Miss. Sta.]* 11(9): 1, 8. Sept. 1948. 100 M69M1 Vegetables.

7429 VALLEDOR, D. T., and FLORES, E. F. Determinación de la vitamina C en las frutas de Cuba. *Soc. Cubana de Bot. Rev.* 4: 73-89. July/Sept. 1947. 451 So123

From *Revista de la Sociedad Cubana de Pediatría*.

7430 VEENBAAS, A. Investigation of the nutritive value and chemical composition of dried leguminous plants, 1942 crop. (In Dutch.) *Netherlands. Landbouwvoorlichtingsdienst. Meded.* 58, 50 p. Wageningen, 1948. 12 N383

7431 WÖHLBIER, W. Der energiegehalt von nahrungs- und futtermitteln. II. Kurbriefe f. Ernähr. u. Landw. 8, B I 1, 4 p. Aug. 1948. 281.8 K96

7432 WOKES, F., and others. Vitamin C in English tomatoes. *Soc. Chem. Indus. J.* 67: 262-264. June 1948. 382 M31

J. R. Barr, L. Brunskill, and A. C. Shaw, joint authors.

#### MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

#### GENERAL

7433 ANTIGUA. DEPT. OF AGRICULTURE. Annual report for the year 1947. Barbados, 1948. 27 p. 282.29 An8

7434 ARKANSAS. RESOURCES AND DEVELOPMENT COMMISSION. The annual report for 1947. Little Rock, 1948. 75 p. 280.9 Ar45

Includes agriculture and forestry.

7435 BARAGER, C. P. Rats; it is easier to keep them off the farm than to combat them once they have established a foothold. *Country Guide* 67(9): 13, 50, 51. Sept. 1948. 7 G76

7436 BARER, R. Recent advances in microscopy. II. Phase-contrast microscopy. *Brit. Sci. News* 1(9): 10-13. 1948. 472 B77

7437 BEADLE, G. W. Physiological aspects of genetics. *Ann. Rev. Biochem.* 17: 727-752. Ref. 1948. 381 An7

7438 BENSON, A. P. Activities reveal progress. III. *Dept. Agr. Ann. Rpt.* 30: 13-26. 1947. 2 IL6R

7439 BLACKWELDER, R. E. The principle of priority in biological nomenclature. *Wash. Acad. Sci. J.* 38: 306-309. Sept. 15, 1948. 500 W276J

7440 BLANCHET, J. Le rat, un ennemi et une nuisance sur la ferme. *Terre de Chez Nous* 20(51): 19, 25. Sept. 15, 1948. 7 T27

7441 BOELL, E. J., and others. Recent studies in the mechanisms of embryonic development. *N. Y. Acad. Sci. Ann.* 49: 661-666. Sept. 24, 1948. 500 N484

D. F. Costello, S. R. Detwiler, G. Fankhauser, J. Holtfreter, J. S. Nicholas, S. M. Rose, D. Rudnick, and L. S. Stone, joint authors.

7442 BOMBAY. DEPT. OF AGRICULTURE. Annual report, 1944-45. Bombay, 1947. 45 p. 22 B63A

7443 COMPTON, W. A conservation curriculum for agricultural colleges and universities. *Fert. Rev.* 23(5): 9. Sept./Oct. 1948. 57.8 F414

7444 CYPRUS. DEPT. OF AGRICULTURE. Annual report for the year 1947. Nicosia, 1948. 11 p. 21 C99

7445 DOMINICA. DEPT. OF AGRICULTURE. Annual report for the year, 1946. Barbados, 1947. 30 p. 102 W523

7446 DOUGLASS, D. W. Game supply is every farmer's interest. *Successful Farming* 46(10): 64-67. Oct. 1948. 6 Su12

Michigan farmers and the Michigan Conservation Department improve the land for game.

7447 EIRE. MINISTER FOR AGRICULTURE. Sixteenth annual report, 1946-47. Dublin, 1947. 87 p. 10.5 Ir43A

7448 GOLD COAST. DEPT. OF AGRICULTURE. Report, 1946-47. Accra, 1948. 16 p. 24 G56

7449 HARRIS, J. E. Structure and function in the living cell. *New Biol.* 5: 26-46. 1948. 442.8 J63

7450 HEILMAN, G., and HEILMAN, M. A program to end the farmer-hunter feud. *Country Gent.* 118(10): 16, 129-132. Oct. 1948. 6 C833

Pennsylvania's Co-operative Farm-Game Program.

7451 HUTCHINSON, G. E. Circular causal systems in ecology. *N. Y. Acad. Sci. Ann.* 50: 221-246. Ref. Oct. 13, 1948. 500 N484

7452 IZQUIERDO, L. A. Treinta años: síntesis histórica del Departamento de Agricultura y Comercio. *Almanaque Agr. de Puerto Rico* 1947: 17-31. 8 AL62

7453 JOHNSON, F. A. Upland game management. Washington, Wildlife Management Inst., 1948. 80 p. Ref. 412.9 J63

Wildlife in relation to agriculture and land use.

7454 JONES, J. C. Mole control in the eastern United States. *Pests* 16(10): 23-24, 26, 28. Oct. 1948. 449.8 Ex8

7455 MAKEPEACE, L. I., and ASHTON, L. M. The Experiment Station Record, 1933-46. *Col. & Res. Libr.* 9: 316-317. Oct. 1948. 243.8 C68

7456 MITCHELL, R. L. Applications of spectrographic analysis to agricultural problems. *Brit. Sci. News* 1(11): 13-16. 1948. 472 B77

7457 MOORMAN, R. B. There's wildlife on your farm. *Iowa State Col. Agr. Ext. Iowa Farm Sci.* 3(4): 3-4. Oct. 1948. 275.28 Io94

7458 MURRAY, J. H. What Colorado's Ag Department now does. *West. Farm Life* 50(15): 7, 23. Aug. 1, 1948. 6 R153

7459 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Information for newly-appointed members of the staff. Sydney, 1948. 29 p. 36 N47I

7460 NEW ZEALAND. DEPT. OF AGRICULTURE. Annual report for year 1947-48. Wellington, 1948. 86 p. 23 N48



- 7461 NOUVELLES leçons d'agriculture, by H. Gondé, G. Carré, and P. Jussiaux. Paris, Maison Rustique, 1948. 501 p. 30.2 N85  
Deals with botany, soils, fertilizers, weed control, crop culture, silviculture, and research.
- 7462 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Abstract of new publications and list of publications available. Okla. Agr. Expt. Sta. What's New Okla. Agr. 16, 16 p. Aug. 1948. 100 Ok4
- 7463 ÖREBRO LÄNS HUSHÄLLNINGSSÄLLSKAP. Annual report of the Örebro County Agricultural Society, 1947. (In Swedish.) 1947. 158 p. 11 Or3
- 7464 PATTERSON, J. D. The development and regulation of agricultural chemicals. Oreg. Dept. Agr. B. 159: 20-21, 42. Sept. 1948. 2 Or3
- 7465 PENNSYLVANIA ACADEMY OF SCIENCE. Proceedings. v. 22, 1948. Myerstown, Pennsylvania, 1948. 199 p. 500 P383
- 7466 RENNEFELD, J. Kontrollmassnahmen zur sicherstellung landwirtschaftlicher bedarfgüter. Landtechnik 2(19): 5-6. Oct. 15, 1947. 58.8 L235  
Germany.
- 7467 SCHLEMPER, P. Compendium der microbiologie. Ed. 3. Utrecht? 1947. v. 1, 211 p. 448.2 Sch32
- 7468 SENSINI, G. Considerazioni sulla origine delle specie vegetali ed animali [Considerations on the origin of vegetable and animal species]. Pisa, Vallerini, 1947. 220 p. 443 Se5
- 7469 STORER, T. I. Control of rats and mice; effectiveness requires continuous application of proven methods. Calif. Agr. [Calif. Sta.] 2(9): 10, 16. Sept. 1948. 100 C12Cag
- 7470 TEALE, E. W. Days without time; adventures of a naturalist. New York, Dodd, Mead, 1948. 283 p. 409 T22D
- 7471 THERMAN-SUOMALAINEN, E. Heterochromatin and nucleic acid. Suomen Maataloustiet. Seura, Maataloustiet. Aikakausk. 20: 37-47. Ref. 1948. 20 Su7M
- 7472 TINCKER, M. A. H. Agriculture and horticulture. Soc. Chem. Indus. Rpts. Prog. Appl. Chem. 32: 347-361. Ref. 1947. 382 M31R  
Soils, fertilizers, feed and weed killers.
- 7473 VIRGINIA ACADEMY OF SCIENCE. Proceedings for the year 1947-1948; minutes of the twenty-sixth annual meeting, May 6, 7, 8, 1948, Roanoke, Virginia. Richmond? 1948. 155 p. 500 V81
- 7474 VLADIMIROV, A. V., ed. Rukovodstvo dla agrokhimicheskikh laboratorii MTS [Handbook for the agrochemical laboratories of machine tractor stations]. Moskva, Sel'khozgiz, 1948. 350 p. 395 V842
- 7475 VOGT, W. El hombre y la tierra [Venezuela]. Caracas, Ministerio de Agricultura y Cria, Dirección Forestal, 1948. 142 p. 279.169 V86
- 7476 WANDELL, W. N. Improving fencerows and ditchbanks on Illinois farms. Ill. Conserv. 13(2): 4-5, 17. Summer, 1948. 279.9 IL6IL  
As wildlife cover.
- 7477 WOOD, R. C. A note-book of tropical agriculture. Ed. 4. Trinidad, B. W. I., Imp. Col. of Trop. Agr., 1947. 147 p. 38 W85
- 7478 ZVJAGIN, M. Collecting hormones. (In Czech.) Časopis Českoslov. Vet. 3: 503-504. Sept. 10, 1948. 41.8 C27
- HISTORY AND BIOGRAPHY
- 7479 BAINBRIDGE, J. Farmer Bromfield; famous novelist preaches the new agriculture on his Malabar Farm. Life 25(15): 111-114, 116, 119-120, 122. Oct. 11, 1948. 280.8 L62
- 7480 BOWMAN, A. E. Tribute to Director B. H. Crocheron. Washington, U. S. Ext. Serv., 1948. 3 p. 1.913 A2T732
- 7481 BURLINGHAM, G. S. Henry Curtis Beardslee. Mycologia 40: 505-506. Sept./Oct. 1948. 450 M99
- 7482 CAMERON, M. H. V. Seventeenth century science: John Hunter 1728-1792. Canad. J. Compar. Med. 12: 235-236. (Cont.) Sept. 1948. 41.8 C162
- 7483 DICKEY, J. B. R. An agricultural revolution. Pa. Farmer 139: 126, 156-157. Sept. 11, 1948. 6 P383  
Farming changes in Pennsylvania from the time of the American Revolution.
- 7484 EVANG, K. Sir John Boyd Orr. (In Norwegian.) Norsk Landbr. 14: 352-354. Sept. 17, 1948. 11 N8122
- 7485 FUSSELL, G. E. John Abercrombie, 1726-1806. Gard. Chron. 124: 108-109. Oct. 2, 1948. 80 G162
- 7486 GETTY, R. E., HARTMAN, G. B., and LARSEN, J. A. Professor G. B. MacDonald. Iowa State Col. J. Sci. 22: 319-321. July 1948. 470 Io9  
Includes list of his publications.
- 7487 GOLUBEV, B. The founder of the Soviet agro-chemistry. On the death of the academician D. N. Prfánishnikov. (In Russian.) Interagra 2: 142-144. 1948. 28 In825  
English summary.
- 7488 GRAY, C. D. S. We reaped before we sowed. Young Farmer 16: 135-138. Sept./Oct. 1948. 10 Y8  
Includes the origin of cropping and cultivation.
- 7489 HAGEN, V. W. VON. The immortal botanist; the strange and stirring story of José Celestino Mutis. N. Y. Bot. Gard. J. 49: 210-218. Ref. Sept. 1948. 451 N48J
- 7490 HARDING, T. S. Somé landmarks in the history of the Department of Agriculture. U. S. D. A. Hist. Ser. 2, rev., 111 p. July 1948. 1.90 A2Ag8
- 7491 HOWARD, N. F. Loyd W. Brannon, 1900-1948. J. Econ. Ent. 41: 527. June 1948. 421 J822
- 7492 JAMES, J. A. E. M. Tiffany, the man behind the FFA creed. Better Farming Methods 20(10): 24, 34. Oct. 1948. 58.8 B46
- 7493 JENKINS, C. F. Samuel Baxter—rare and notable horticulturist. Parks & Recreation 31: 508-510. Sept. 1948. 98.8 P23
- 7494 JOFFE, J. S. Dimitrii Nikolaevich Pryanishnikov, 1865-1948. Soil Sci. 66: 165-169. Sept. 1948. 56.8 So3
- 7495 KEILHOLZ, F. J. He put his faith in hens. Country Gent. 118(10): 28, 111-113, 115. Oct. 1948. 6 C833  
Biographical sketch of James E. Rice.
- 7496 LALLOUR, M. Un ami des bergers landais: Robert Bezos. Mouton 3: 85-86. Sept. 10, 1948. 45.8 M86
- 7497 LALLOUR, M. La vie ardente d'Henry Reille-Soult. Mouton 2: 49-50. May 10, 1947. 45.8 M86
- 7498 MCKEE, I. Jean Louis Vignes: California's pioneer wine-grower. 2. Wine Rev. 16(9): 12-13. Ref. Sept. 1948. 390.8 W722
- 7499 MASON, D. D. Guy Wollard Conrey, 1887-1948. Soil Sci. 66: 171-172. Sept. 1948. 56.8 So3
- 7500 MICHENER, C. D. T. D. A. Cockerell. N. Y. Ent. Soc. J. 56: 171-174. Sept. 1948. 420 N48J
- 7501 MR. SANDERS dies at 88. Breeder's Gaz. 113(10): 3, 29. Oct. 1948. 49 B74
- 7502 NOBLE, W. B., and GAMMON, E. T. Cecil Cline Wilson, 1896-1948. J. Econ. Ent. 41: 525-526. June 1948. 421 J822
- 7503 PHILLIPS, E. F. Lorenzo Lorraine Langstroth. Gleanings Bee Cult. 76: 619-622. (Concl.) Oct. 1948. 424.8 G47
- 7504 RUSSELL, G. E. John Naismith of Hamilton; a Scottish writer of the 1790's. Scot. Farmer 56: 1115. Sept. 4, 1948. 10 Sco8  
Farming in the 18th century in Scotland.
- 7505 RUSSELL, H. L. I knew Babcock. Wis. Agr. & Farmer 75(19): 10-11. Oct. 2, 1948. 6 W751  
Stephen Moulton Babcock.
- 7506 SYMON, J. A. The agricultural revolution: 1750-1850. Scot. Agr. 28: 80-85. Autumn 1948. 10 Sco82So
- 7507 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Biographies of persons in charge of Federal agricultural work, 1836 to date. Rev. Washington? 1948. 16 p. ([Rpt.] No. 3) 1.914 A2B52
- 7508 WALD, C. Selig Hecht (1892-1947). J. Gen. Physiol. 32(1): 1-16. Ref. Sept. 20, 1948. 447 R 1829
- 7509 WATSON, J. A. S. A great countryman; Sir William Somerville, 1860-1932. Young Farmer 16: 131-132. Sept./Oct. 1948. 10 Y8  
Fourth in a series on great men in agriculture.
- 7510 WIT, H. C. D. DE. Johan Baptist Spanoghe. (In Dutch.) Chron. Nat. 104: 206-209. July 1948. 514 B31



## HOME MANAGEMENT

- 7511 AIKIN, A. Family laundry practices and costs. N. Y. (Cornell) Agr. Expt. Sta. B. 847, 43 p. Aug. 1948. 100 N48C
- 7512 BEARD, R. When you buy your power ironer. Ohio. Agr. Col. Ext. B. 277, 4 p. Mar. 1947. 275.29 Oh32
- 7513 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. A professional organization for homemakers. Urbana, 1947. 8 p.-folder. 275.29 IL62Phep
- 7514 MINDEN, M. B. Selecting an automatic washing machine. Oreg. State Col. Ext. C. 519, 6 p.-folder. July 1948. 275.29 Or32C
- 7515 ROKAHR, M. Adapting information for home planning use. Washington, U. S. Ext. Serv., 1948. 5 p. 1.913 H3R63
- 7516 SMITH, L. P., and SHIPLEY, F. Costumes to meet your needs; advanced 4-H clothing projects. Utah. State Agr. Col. Ext. B. 168, 16 p. June 1948. 275.29 Utl
- 7517 WIGGINS, M. C. Your wardrobe needs—tailoring coats. Kans. State Col. Agr. Ext. C. 89, 20 p. 1947. 275.29 K13Ex

## INTERNATIONAL RELATIONS

- 7518 AUSTRALIA. DELEGATION TO FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, COPENHAGEN, 1946. Report of the Australian delegation. Canberra, 1947. 34 p. 389.9 Au75
- 7519 SOUTH AFRICA. GOVERNMENT INFORMATION OFFICE. South African-American survey, 1948. New York, 1948. 154 p. 280.9 So822
- 7520 U. S. DEPT. OF STATE. International Institute of Agriculture; transfer of functions and assets to the Food and Agriculture Organization of the United Nations; protocol between the United States of America and other governments; dated at Rome March 30, 1946. U. S. Dept. State. Treaties and other Internatl. Acts Ser. 1719, 14 p. 1948. (P. 3106) 150 T71T
- 7521 VOGT, W. An Inter-American conference confronts a critical problem. Foreign Agr. 12(9): 195-196. Sept. 1948. 1.9 Ec7For
- Conservation of natural resources of the Western Hemisphere.

## METEOROLOGY

- 7522 AUJESZKY, L. International resolutions on agrometeorology. (In Hungarian.) Időjárás 52: 62-64. Apr./June 1948. 340.8 Id5
- English summary, p. 95.
- 7523 BERGEIRO, J. M. Nuevos instrumentos meteorológicos aplicables a la investigación agrícola. Asoc. Rur. del Uruguay. Rev. Mens. 75(9): 13-15. Sept. 1948. 9.9 As5
- 7524 KRAUS, O. Das trockenjahr 1947. Schweiz. Naturschutz 14: 90-92. Aug. 1948. 279.8 Sch9
- Effect on agriculture.
- 7525 SHEEL, D. Artificial rainfall. India. Cent. Bd. Irrig. J. 5: 136-139. Apr. 1948. 55.9 In222C
- 7526 SIGALA, A. La pluie artificielle. Prog. Agr. et Vitic. 1948: 19-25. (Concl.) July 4/11, 1948. 14 P94
- 7527 SLOANE, E. The weather; using the Weather Bureau, a barometer, clouds and homely weather proverbs, the farmer can do a first rate forecasting job. Farm Q. 3(3): 26-27, 31, 91, 92, 94, 95, 138. Autumn 1948. 6 F22995
- 7528 SULZLÉE, C. Les méthodes scientifiques d'investigation des couches de neige en haute montagne et leurs applications. Rev. des Eaux et Forêts 87: 223-237. July 1948. 99.8 R322
- 7529 SWARTENBROEKX, J. Artificial rain. (In Flemish.) Cult. en Handel 14: 558-559. Sept. 1948. 80 C892

## RESEARCH

- 7530 AGRICULTURAL RESEARCH INSTITUTE OF NORTHERN IRELAND. Twenty-first annual report, 1947-48. Hillsborough, 1948: 39 p. 103 N813

7531 ARGENTINE REPUBLIC. DIRECCIÓN GENERAL DE INVESTIGACIONES. Investigaciones agrícolas. Buenos Aires, 1948. 36 p. 31.9 Ar32

7532 CALZADA B., J. Técnica experimental agrícola. Agronomía [Lima] 13(53): 9-44. 1948. 9.8 Ag83

Summary of three talks.

7533 CONFERENCE ON THE USE OF RADIOACTIVE ISOTOPES IN AGRICULTURAL RESEARCH. Proceedings, 1st conference, Alabama Polytechnic Institute, 1947. Auburn, Ala. Polytech. Inst., 1948. 146 p. 386 C76

7534 DELTA COUNCIL, STONEVILLE, MISS. Science for better farming at [Stoneville, Mississippi, U.S.A.] Greenville, 1948? 40 p. 31.3 D38

Research.

7535 FOSTER, R. L. On the spot farm research; in Iowa farmers and their State Experiment Station tackle problems on their home ground. Capper's Farmer 59 (10): 28, 41. Oct. 1948. 6 M693

7536 HEVESY, G. Radioactive indicators; their application in biochemistry, animal physiology, and pathology. New York, Interscience, 1948. 556 p. 386.2 H48

7537 JOKIOINEN, R. M. Finland's research organization 25 years. (In Swedish.) Lantmannen 32: 625. Sept. 18, 1948. 11 L234

7538 KAS, V. Agricultural research in Czechoslovakia. (In Russian.) Interagra 2: 163-183. 1948. 28 In825

English summary.

Includes list of institutions.

7539 KING, G. H. Agricultural research valuable to Ga. farmers. Ga. Farmer's Mkt. B. 32(4): 1, 8. Sept. 28, 1948. 280.39 G292

7540 KRISTIANSTAD LÄNS HUSHÄLLNINGSSÄLLSKAP. Agricultural experiments. (In Swedish.) Kristianstad Läns Hushållningssällsk. Tidskr. 1947, 115 p. 1947. 11 K89

7541 LEEFMANS, S. Observations on a visit to a number of important experimentation stations in the United States. (In Dutch.) Tuinbouw 3: 244-247. Sept. 1948. 80 T815

7542 MAINE. AGRICULTURAL EXPERIMENT STATION. Science serves Maine agriculture; sixty-fourth annual report of progress, year ending June 30, 1948. Maine. Agr. Expt. Sta. B. 460, 75 p. June 1948. 100 M285

7543 NEW YORK (CORNELL). AGRICULTURAL EXPERIMENT STATION. Sixtieth annual report of the College of Agriculture at Cornell University and of the Cornell University Agricultural Experiment Station, 1947. Ithaca? 1948. 197 p. 100 N48C

7544 OBREGÓN BOTERO, R. Un año mas al servicio de la agricultura. Palmira. Estac. Agr. Expt. B. de Inform. Agropecuaria 1573: 1-2. Jan. 13, 1948. 102.5 P18B

7545 ROYAL SOCIETY EMPIRE SCIENTIFIC CONFERENCE. Report. London, 1948. 2 v. 330.9 R812

7546 SHEN, T. H. Progress of work of the National Agricultural Research Bureau in 1947. China. Min. Agr. and Forestry. Misc. P. 1: 29-31. Apr. 1948. 22.5 C4412M

7547 SIMONSEN, J. L. Colonial Products Research Council. Suomen Kemistilehti. B. 21: 133-138. 1948. 385 Su7

7548 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Important recent achievements of Department of Agriculture scientists. Rev. Washington? 1948. 28 p. ([Rpt.] No. 6) 1.914 A2M85

7549 VAN ARSDEL, W. B., and others. Regional research laboratories, U. S. Department of Agriculture. Indus. & Engin. Chem. 40: 2014-2020. Ref. Nov. 1948. 381 J825

R. K. Eskew, E. A. Gastrock, and C. T. Langford, joint authors.

## STATISTICS

7550 CAVINA, R. Statistics in problems of rural economy. (In Portuguese.) Agronomia [Rio de Janeiro] 6: 307-310. Oct./Dec. 1947. 9.2 Ag892

7551 DEMING, W. E. The sampling method used in census work and collection of other statistical data. (In Italian.) Riv. di Econ. Agr. 3: 212-225. 1948. 281.8 R52

English summary.



7552 DICK, I. D. A note on the correlation of products. New Zeal. J. Sci. & Technol. A, Agr. Res. Sect. 29: 75. Aug. 1947. 514 N48A

7553 HARTE, C. Die aufstellung von koppelungsgruppen unter verwendung der korrelationsrechnung. Z. f. Naturf. 3b: 99-105. Mar./Apr. 1948. 474 Z3

7554 MANTOVANI, J. R. A estatística agrícola nos Estados Unidos da América [Agricultural statistics in the United States of America]. Rio Grande do Sul. Dept. Estad. de Estatís. P. 4, 41 p. Dec. 1947. 255.3 R475P

7555 UNITED NATIONS. STATISTICAL COMMISSION. SUB-COMMISSION ON STATISTICAL SAMPLING. Report of the Sub-commission on Statistical Sampling to the Statistical Commission first session 22-27 September 1947. Sankhya 8: 393-402. June 1948. 251.8 In2  
Ch. IV, Sampling in the 1950 World Census of Agriculture.

7556 U. S. BUR. OF AGRICULTURAL ECONOMICS. Agricultural statisticians in charge of field offices of agricultural estimates work. Washington? 1948. 1 p. 1.941 A2Ag83



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Agricultural History Series

HARDING, T. S. Some landmarks in the history of the Department of Agriculture. U. S. D. A. Hist. Ser. 2, rev., 111 p. July 1948. 1.90 A2Ag8

Agricultural Information Series

DAVIS, E. C. Chicken in the freezer. U. S. D. A. AIS-74, 8 p.-folder. Sept. 1948. 1 Ag84Ai

Miscellaneous Publications

RICHARDSON, B. T. Workers in subjects pertaining to agriculture in land-grant colleges and experiment stations, 1947-48. U. S. D. A. Misc. P. 649, 168 p. June 1948. 1 Ag84M

U. S. FOREST SERV. Tree breeding at the Institute of Forest Genetics. U. S. D. A. Misc. P. 659, 14 p. 1948. 1 Ag84M

Program Aid

U. S. BUR. OF ANIMAL INDUSTRY. Help protect the United States from foot-and-mouth disease. U. S. D. A. PA-46, rev., 6 p.-folder. Aug. 1948. 1 Ag84Pro

U. S. BUR. OF DAIRY INDUSTRY. How to get more milk from your pastures. U. S. D. A. PA-47, 4 p. Aug. 1948. 1 Ag84Pro

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Small equipment for the school lunch. U. S. D. A. PA-59, 8 p. Sept. 1948. 1 Ag84Pro

U. S. Production and Marketing Administration cooperating.

Technical Bulletins

JOHNSTON, C. O., CALDWELL, R. M., and COMPTON, L. E. Leaf rust of wheat in the uniform rust nurseries in the United States, 1938-43. U. S. D. A. Tech. B. 960, 13 p. Ref. Sept. 1948. 1 Ag84Te

Contribution No. 478, serial No. 389, of the Department of Botany and Plant Pathology, Kansas Agricultural Experiment Station; and No. 262 of the Department of Botany and Plant Pathology, Purdue University (Indiana) Agricultural Experiment Station.

Unnumbered Publications

U. S. DEPT. OF AGRICULTURE. SAFETY COUNCIL. Fire prevention week, October 3-9, 1948. Washington? 1948. 4 p. 1.90 A2F51

AGRICULTURAL AND INDUSTRIAL CHEMISTRY,  
BUREAU OF

BECKEL, A. C. Alcoholic extraction of oil from soybeans. U. S. Bur. Agr. and Indus. Chem. AIC-196, 4 p. July 21, 1948. 1.932 A2Ag82

BREKKE, O. L. Fractionation of soybean oil by liquid-liquid extraction. U. S. Bur. Agr. and Indus. Chem. AIC-194, 5 p. July 21, 1948. 1.932 A2Ag82

COWAN, J. C. Developments in soybean research at the Northern Regional Research Laboratory. U. S. Bur. Agr. and Indus. Chem. AIC-200, 5 p. July 21, 1948. 1.932 A2Ag82

DUTTON, H. J. Edible soybean oil. U. S. Bur. Agr. and Indus. Chem. AIC-198, 4 p. July 21, 1948. 1.932 A2Ag82

ESKEW, R. K., EDWARDS, P. W., and REDFIELD, C. S. Recovery and utilization of pulp from white potato starch factories. U. S. Bur. Agr. and Indus. Chem. AIC-204, 7 p. Sept. 1948. 1.932 A2Ag82

GUSTAFSSON, R. H. A pilot plant for solvent extraction studies. U. S. Bur. Agr. and Indus. Chem. AIC-195, 5 p. July 21, 1948. 1.932 A2Ag82

LEWIS, A. J. Paints from soybean oil. U. S. Bur. Agr. and Indus. Chem. AIC-199, 3 p. July 21, 1948. 1.932 A2Ag82

MILNER, R. T. Composition and its effects on the price of soybeans and soybean oil. U. S. Bur. Agr. and Indus. Chem. AIC-201, 6 p. July 21, 1948. 1.932 A2Ag82

SMITH, A. K. Food uses for soybean protein. U. S. Bur. Agr. and Indus. Chem. AIC-197, 4 p. July 21, 1948. 1.932 A2Ag82

U. S. EASTERN REGIONAL RESEARCH LABORATORY. Publications on hides, skins, tanning materials, tanning processes, and leather. U. S. Bur. Agr. and Indus. Chem. AIC-203, 13 p. Sept. 1948. 1.932 A2Ag82

AGRICULTURAL ECONOMICS, BUREAU OF

HORTON, D. C. Adaptation of the farm capital structure to uncertainty. Washington? U. S. Bur. Agr. Econ., 1948. 13 p. 1.941 F2Ad1

Paper for informal discussion in a seminar on uncertainty and uncertainty research at the University of Chicago, June 3 and 4, 1948.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Agricultural economics and statistical publications. Washington, 1948. 54 p. 1.941 E8Ag8

U. S. BUR. OF AGRICULTURAL ECONOMICS. Chickens raised on farms in 1948; preliminary estimates. Washington, 1948. 2 p. 1.941 H8C434

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm real estate activity in twelve Western counties, October - March, 1947-48, by K. S. Landstrom and O. C. Fuqua. Washington, 1948. 16 p. 1.941 L8F224

U. S. BUR. OF AGRICULTURAL ECONOMICS. Missouri turkey crop report, 1948. Columbia, Mo., 1948. 2 p. 1.941 H8T84

U. S. BUR. OF AGRICULTURAL ECONOMICS. Smallest turkey crop in 10 years. Washington, 1948. 3 p. 1.941 S2T844

U. S. BUR. OF AGRICULTURAL ECONOMICS. Tobaccos of the United States; acreage, yield per acre, production, price, and value, by States, 1866-1945 and by types and classes, 1919-1945. U. S. Bur. Agr. Econ. CS-30, 82 p. July 1948. 1.9422 A8C732

U. S. BUR. OF AGRICULTURAL ECONOMICS. Trends in the tenure status of farm workers in the United States since 1880, by C. C. Taylor, L. J. Ducoff, and M. J. Hagood. Washington, 1948. 36 p. 1.941 R3T722

AGRICULTURAL RESEARCH ADMINISTRATION

MARTIN, J. F. Chemical methods for eradicating ribes and white pine blister rust control. U. S. Agr. Res. Admin. Res. Achvt. Sheet 98, 2 p. Aug. 1948. 1.98 R31

ANIMAL INDUSTRY, BUREAU OF

LEE, A. R. Use and care of feathers. U. S. Bur. Anim. Indus. A. H. D. 120, 3 p. Aug. 1948. 1.9 An52Ah

MARSDEN, S. J. An outline for selecting breeding turkeys. U. S. Bur. Anim. Indus. A. H. D. 113, rev., 4 p. Sept. 1948. 1.9 An52Ah

ROBERTS, I. H. Sheep scab and its treatment with benzene hexachloride. Washington, U. S. Ext. Serv., 1948. 4 p. 1.972 A5R54

Summary of address at Livestock Production and Marketing Conference, Jackson's Mill, W. Va., June 23, 1948.



U. S. BUR. OF ANIMAL INDUSTRY. Enforcement of foot-and-mouth disease quarantine on the United States-Mexican border. Washington? 1948. 4 p. 1.972 A2En2

U. S. BUR. OF ANIMAL INDUSTRY. Statement of indemnity claims and averages in cooperative Bang's disease eradication work, fiscal year 1948. Washington? 1948. 1 p. 1.972 A2St23

U. S. BUR. OF ANIMAL INDUSTRY. Statistical tables showing progress of the eradication of tuberculosis in livestock and brucellosis in cattle in the United States. Washington, 1948. 10 p. 1.9 An533Stm

U. S. BUR. OF ANIMAL INDUSTRY. Summary of avian tuberculosis eradication work in cooperation with States, July 1947 - June 1948. Washington? 1948. 1 p. 1.9 An533Sua

U. S. BUR. OF ANIMAL INDUSTRY. Trend of average egg production in United States as related to development of poultry industry. Washington? 1948? Chart. 1.972 A3T72

#### COMMODITY EXCHANGE AUTHORITY

U. S. COMMODITY EXCHANGE AUTHORITY. Commodity Exchange Act as amended. Rules and regulations of the Secretary of Agriculture promulgated thereunder. Rev. Washington, 1948. 90 p. 1 C73C

U. S. COMMODITY EXCHANGE AUTHORITY. Cotton futures: classification of open contracts, all contract markets combined end of each month, August 1945-July 1948. Washington, 1948. Chart. 1.945 C82

#### EXTENSION SERVICE

BOWMAN, A. E. Tribute to Director B. H. Crocheron. Washington, U. S. Ext. Serv., 1948. 3 p. 1.913 A2T732

Presented at the Conference of Directors of 11 Western States, Bozeman, Mont., Aug. 9-11, 1948.

GERLAUGH, P. The place of livestock in Eastern agriculture and some related problems. Washington, U. S. Ext. Serv., 1948. 6 p. 1.913 A4P69

ROKAHR, M. Adapting information for home planning use. Washington, U. S. Ext. Serv., 1948. 5 p. 1.913 H3R63

Talk at the Farm and Home Planning Workshop of the North Central States, University of Illinois, June 14-18, 1948.

U. S. EXTENSION SERV. Aids for 4-H achievement observance, by G. L. Warren. Washington? 1948. 15 p. 1.913 F3Ac4

U. S. EXTENSION SERV. The Extension Family Life Work Conference, May 10-15, 1948. Washington, 1948. 64 p. 1.913 C3F212

U. S. EXTENSION SERV. The local leader's relationship to the 4-H Clubs. Washington, 1948. 2 p. 1.913 F3L782

U. S. EXTENSION SERV. A partial list of craftsmen and handicraft groups in the United States. Supplement No. 1. Washington, 1948. 2 p. 1.913 A2P255

U. S. EXTENSION SERV. Report of the Extension Soil Conservationists Conference, Northern Great Plains States, March 16-18, 1948, Lincoln, Nebraska. Washington? 1948. 7 p. 1.913 C3So3

U. S. EXTENSION SERV. The South observes National Home Demonstration Week, by M. Hogan. Washington, 1948. 12 p. 1.913 H2So8

#### FARM CREDIT ADMINISTRATION

U. S. FARM CREDIT ADMIN. Chart and description of accounts for Federal land banks. Rev. Washington, 1948. 184 p. 1.955 A2C38

U. S. FARM CREDIT ADMIN. Manual for credit examinations of production credit associations. Washington, 1948. 16 p. 1.955 P2M31

WANSTALL, G. Statistics of farmers' marketing and purchasing cooperatives, 1945-46. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 119, 54 p. June 1948. 166.3 M68

#### FEDERAL CROP INSURANCE CORPORATION

U. S. FEDERAL CROP INSURANCE CORPORATION. Federal crop insurance on summerfallow wheat in Kit Carson County, Colorado. Washington? 1948? 4 p. 1.952 F3143

U. S. FEDERAL CROP INSURANCE CORPORATION. Federal crop insurance on summerfallow wheat in Sherman County, Kansas. Washington? 1948? 4 p. 1.952 F3142

U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 loss adjustment manual for tobacco. Washington? 1948. 12 p. 1.952 L893 Tentative.

#### FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

MERCKER, A. E. The market outlook for United States seed potatoes in western Europe. U. S. Off. Foreign Agr. Relat. FFV-4, 16 p. Sept. 27, 1948. 1.943 F7635

UNITED STATES-LEBANON AGRICULTURAL MISSION. Report of the United States-Lebanon Agricultural Mission. U. S. Off. Foreign Agr. Relat. I. A. C. Ser. 7, 76 p. Sept. 1948. 1.943 R293

#### FOREST SERVICE

SWIFT, L. W. Management of national forest lands for wildlife. Washington? U. S. Forest Serv., 1948. 5 p. 1.962 W2Sw5

Paper before the International Association of Game, Fish and Conservation Commissioners, Atlantic City, Sept. 17, 1948.

U. S. FOREST SERV. Black Hills National Forest, 50th anniversary. Washington, 1948. 43 p. 1 F769BL

U. S. FOREST SERV. Farms cutting forest products. Percent of all farms, U. S. Census of 1930. Washington? 1948? Map. 1.962 A2F226

U. S. FOREST SERV. Forestry and the schools, by C. W. Mattison. Washington, 1948. 33 p. 1.962 A2F7632

U. S. FOREST SERV. Ranger 'rithmetic for sixth grade teachers, by C. W. Mattison and G. Vitas. Washington, 1948. 10 p. 1.962 A2R16

U. S. FOREST SERV. NORTHEASTERN FOREST EXPERIMENT STATION. The annual report, 1947. Upper Darby, Pa., 1948. 58 p. 1.9 F76222

#### GRADUATE SCHOOL

U. S. DEPT. OF AGRICULTURE. Graduate School bulletin; catalog issue, 1948-49. Washington, 1948. 139 p. 1 Ag854E

#### INFORMATION, OFFICE OF

TERMOHLEN, W. D., and REYNOLDS, D. D. Report of World Poultry Congress. Washington? U. S. D. A., Off. Inform., 1948. 3 p. 1.944 D2T27

A transcribed interview, Sept. 17, 1948.

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Agriculture in Montana. Washington? 1948. 10 p. 1.914 A2Ag83

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Biographies of persons in charge of Federal agricultural work, 1836 to date. Rev. Washington? 1948. 16 p. ([Rpt.] No. 3) 1.914 A2B52

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Important recent achievements of Department of Agriculture scientists. Rev. Washington? 1948. 28 p. ([Rpt.] No. 6) 1.914 A2M85

#### PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Drying combined rice, by H. A. Kramer. Washington? 1948. 17 p. 1.965 F6D84



U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. List of plant material introduced; Project No. 111, Research and Marketing Act of 1946. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Spec. Inventory 4, 42 p. Aug. 2, 1948. 1.965 P2L693

U. S. REGIONAL SOYBEAN LABORATORY, SOUTHERN SECT. Results of the cooperative uniform soybean tests, 1947. II. Southern States. U. S. Bur. Plant Indus., Soils, and Agr. Engin. RSLM 147, 134 p. May 1948. 1.9 C49292Rs

#### PRODUCTION AND MARKETING ADMINISTRATION

U. S. PRODUCTION AND MARKETING ADMIN. The Benton Harbor fruit market at Benton Harbor, Mich., by R. F. Burdette and A. B. Lowstuter. Washington, 1948. 52 p. 1.956 M34B44

U. S. PRODUCTION AND MARKETING ADMIN. Cuban demand active for rice supplies. Dallas, 1948. 1 p. 1.956 A2C89

U. S. PRODUCTION AND MARKETING ADMIN. Livestock market news statistics and related data, 1947. U. S. Prod. and Mktg. Admin. CS-29, 95 p. July 1948. 1.9422 A8C732

U. S. PRODUCTION AND MARKETING ADMIN. Preserving the quality of cottonseed in storage, by M. E. Whitten. Washington? 1948. 8 p. 1.956 C82P92

Presented at convention of the National Oil Mill Superintendents Association in Dallas, June 9-11, 1948.

WALSH, R. M. Statistics and research in the field of price analysis. Washington? U. S. Prod. and Mktg. Admin., 1948. 11 p. 1.941 A2W16

Paper at meeting of the American Farm Economic Association, Green Lake, Wis., Sept. 13-16, 1948.

#### RURAL ELECTRIFICATION ADMINISTRATION

U. S. RURAL ELECTRIFICATION ADMIN. Care and use of your small electric appliances. Washington, 1948. 4 p. 1.933 C18

U. S. RURAL ELECTRIFICATION ADMIN. Main points to consider when electrifying the rural home. Washington? 1948. 2 p. 1.933 M282

U. S. RURAL ELECTRIFICATION ADMIN. More power to your poultry raising. Washington, 1947? 4 p. 1 R88Mop

WICKARD, C. R. A tribute to local enterprise. Washington? U. S. Rural Electrification Admin., 1948. 4 p. 1.91 A2W63

Address before the Spoon River Electric Cooperative, Inc., Canton, Ill., Sept. 8, 1948.

#### SECRETARY, OFFICE OF

LOVELAND, A. J. Cribs for the corn. Washington? U. S. D. A., 1948. 9 p. 1.91 A2L94

Address at corn storage demonstration meeting, Vinton, Iowa, Sept. 23, 1948.

LOVELAND, A. J. Licking the grain storage problems. Washington, U. S. D. A., 1948. 2 p. 1.91 A2L94

A broadcast during the Aug. 28, 1948, National Farm and Home Hour.

WHITE, E. D. Problems facing American cotton. Washington, U. S. D. A., 1948. 13 p. 1.957 W58

Address before the American Farm Economic Association at Green Lake, Wis., Sept. 14, 1948.

#### SOIL CONSERVATION SERVICE

NELSON, R. E. Slick spots and alkali soils in humid regions. U. S. Soil Conserv. Serv. Pacific Region. Tech. Notes 1: 1-6. Ref. June 1, 1948. 1.9609 T222

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Cheyenne County, Kansas. Washington? 1948. 25 p. 1.96 L22Phch  
Kansas Agricultural Experiment Station cooperating.

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Phillips County, Kansas. Manhattan, Kan., 1948. 20 p. 1.96 L22Phpc

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Rawlins County, Kansas. Washington? 1948. 18 p. 1.96 L22Phra

U. S. SOIL CONSERVATION SERV. Teachers' guide to be used with the school films [on] topsoil, water, erosion, and soil and water conservation. Washington, 1948. 32 p. 1.96 R27T3

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Guide for farm planning soil conservation surveys in Nevada, May 1948. n. p., 1948. 16 p. 1.9609 G94



STATE AGRICULTURAL EXPERIMENT STATION  
PUBLICATIONS

January 1949

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona Agricultural Experiment Station, Tucson

EMBLETON, H. The cost of production of eggs and pullets in southern Arizona. Ariz. Agr. Expt. Sta. B. 208, rev., 45 p. Sept. 1947. 100 Ar4

California Agricultural Experiment Station, Berkeley

CALIFORNIA agriculture 2(9), 16 p; 2(10), 16 p. Sept.-Oct. 1948. 100 C12Cag

Connecticut (State) Agricultural Experiment Station, New Haven

SINGLETON, W. R. Hybrid sweet corn. Conn. (State) Agr. Expt. Sta. B. 518, 60 p. Ref. June 1948. 100 C76St

Georgia Agricultural Experiment Station, Experiment

BUICE, G. D., and BROOKS, O. L. Winter grazing for mountain counties of Georgia. Ga. Agr. Expt. Sta. Press B. 600; 2 p. Aug. 5, 1948. 100 G29P

SELL, O. E., and CROWDER, L. V. Tall fescue grass production in Georgia. Ga. Agr. Expt. Sta. Press B. 601, 2 p. Sept. 30, 1948. 100 G29P

Georgia Coastal Plain Experiment Station, Tifton

GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Oat production in south Georgia. Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 57, 2 p. Sept. 10, 1948. 100 G292M

Illinois Agricultural Experiment Station, Urbana

ILLINOIS. AGRICULTURAL EXPERIMENT STATION. Summary of contour farming study, by C. A. Van Doren, E. H. Kidder, and R. S. Stauffer. Urbana? 1948. 2 p. 56.7 IL63

Indiana Agricultural Experiment Station, Lafayette

MULVEY, R. R. Spring oat varieties. Ind. Agr. Expt. Sta. Agron. Mimeog. AY 110, 4 p. June 1947. 100 In2Agr

INDIANA. AGRICULTURAL EXPERIMENT STATION. Pasture renovation. Ind. Agr. Expt. Sta. Agron. Mimeog. AY 112, rev., 3 p. 1948. 100 In2Agr

INDIANA. AGRICULTURAL EXPERIMENT STATION. Fertilizer recommendations for field crops in Indiana. Ind. Agr. Expt. Sta. Agron. Mimeog. AY 115, 4 p. Oct. 1947. 100 In2Agr

INDIANA. AGRICULTURAL EXPERIMENT STATION. Summary 1947 corn demonstrations. Ind. Agr. Expt. Sta. Agron. Mimeog. AY 118, 8 p. 1948? 100 In2Agr

MILES, S. R. Certified corn hybrids for Indiana. Ind. Agr. Expt. Sta. Agron. Mimeog. AY 119, 2 p. Feb. 1948. 100 In2Agr

INDIANA. AGRICULTURAL EXPERIMENT STATION. First annual summer agricultural conference. Recent results of experimental work. Lafayette, 1948. 9 p. 276 P97P

Louisiana Agricultural Experiment Station, University Station, Baton Rouge

GAINES, J. P. A study of major and minor factors affecting management and returns on family farms in the sugar cane area of Louisiana, 1946. La. Agr. Expt. Sta. Mimeog. C. 86, 34 p. Sept. 1948. 100 L935

Maine Agricultural Experiment Station, Orono

MAINE. AGRICULTURAL EXPERIMENT STATION. Science serves Maine agriculture; sixty-fourth annual report of progress, year ending June 30, 1948. Maine. Agr. Expt. Sta. B. 460, 75 p. June 1948. 100 M28S

Maryland Agricultural Experiment Station, College Park

BOHANAN, L. B., and DEVAULT, S. H. Farm real estate trends in Maryland. Md. Agr. Expt. Sta. B. A45, p. 50-69. Aug. 1947. 100 M36S

SMITH, H. D., HAMILTON, A. B., and DEVAULT, S. H. Labor utilization in dairy buildings. Md. Agr. Expt. Sta. B. A46, p. 71-104. Aug. 1947. 100 M36S

KRAMER, A., and SMITH, H. R. Effect of variety, maturity and canning procedures on quality and nutritive value of lima beans. Md. Agr. Expt. Sta. B. A47, p. 105-156. Aug. 1947. 100 M36S

Massachusetts Agricultural Experiment Station, Amherst

FRANKLIN, H. J. Cranberry growing in Massachusetts. Mass. Agr. Expt. Sta. B. 447, 44 p. Apr. 1948. 100 M38H

Michigan Agricultural Experiment Station, East Lansing

QUARTERLY bulletin 31(1), 138 p. Aug. 1948. 100 M58S

Mississippi Agricultural Experiment Station, State College

GRISSOM, P. H. Corn fertilization in the Yazoo-Mississippi Delta. Miss. Agr. Expt. Sta. B. 454, 13 p. May 1948. 100 M69

MISSISSIPPI farm research 11(9), 8 p. Sept. 1948. 100 M69Mi

Nevada Agricultural Experiment Station, Reno

HEADLEY, F. B. Relation of size of turkeys to economy of production, edible meat in carcass, weights of parts of carcass. Nev. Agr. Expt. Sta. B. 180, 14 p. July 1948. 100 N41S

New Mexico Agricultural Experiment Station, State College

NEALE, P. E. Body weights of range sheep. N. Mex. Agr. Expt. Sta. Press B. 1024, 2 p. Sept. 1948. 100 N46S

New York (Cornell) Agricultural Experiment Station, Ithaca

AIKIN, A. Family laundry practices and costs. N. Y. (Cornell) Agr. Expt. Sta. B. 847, 43 p. Aug. 1948. 100 N48C

NEW YORK (CORNELL). AGRICULTURAL EXPERIMENT STATION. Sixtieth annual report of the College of Agriculture at Cornell University and of the Cornell University Agricultural Experiment Station, 1947. Ithaca? 1948. 197 p. 100 N48C

New York (State) Agricultural Experiment Station, Geneva

FARM research 14(4), 16 p. Oct. 1948. 100 N48A

North Carolina Agricultural Experiment Station, State College Station, Raleigh

RESEARCH and farming. Progress report 7 (1), 16 p. July 1948. 100 N81R



Ohio Agricultural Experiment Station, Wooster

FARM and home research 33: 114-143.  
July/Aug. 1948. 100 Oh3S

Oklahoma Agricultural Experiment Station, Stillwater

SCHLEHUBER, A. M., OSBORN, W. M., and  
JOHNSTON, T. H. Better oats for Oklahoma. Okla.  
Agr. Expt. Sta. B. 322, 24 p. Sept. 1948. 100 Ok4

OSWALT, R. M., and SCHLEHUBER, A. M.  
Protein content in varieties of hard red winter wheat,  
1946-47. Okla. Agr. Expt. Sta. Mimeog. C. M-173, 3 p.  
Jan. 1948. 100 Ok4M

OKLAHOMA. AGRICULTURAL EXPERIMENT  
STATION. Abstract of new publications and list of publi-  
cations available. Okla. Agr. Expt. Sta. What's New  
Okla. Agr. 16, 16 p. Aug. 1948. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

DREESSEN, W. H. Public expenditures in  
Oregon. Oregon Agr. Expt. Sta. B. 447, 99 p. July 1947.  
100 Or3

THOMAS, H. L., and MUMFORD, D. C. The  
place of crested wheatgrass on wheat farms. Oregon Agr.  
Expt. Sta. B. 448, 26 p. Nov. 1947. 100 Or3

KUHLMAN, G. W., and MUMFORD, D. C.  
Cost of producing sweet cherries for processing in the  
Willamette Valley and the Dalles area. Oregon Agr. Expt.  
Sta. B. 454, 48 p. July 1948. 100 Or3

Tennessee Agricultural Experiment Station, Knoxville

RASKOPF, B. D. Improving incomes of small  
farms in area 6, west Tennessee. Tenn. Agr. Expt. Sta.  
Rural Res. Ser. Monog. 237, 56 p. Ref. Aug. 30, 1948.  
173.2 W89Co

Utah Agricultural Experiment Station, Logan

FARM & home science 9(3), 20 p. Sept. 1948.  
100 Ut1F

Wyoming Agricultural Experiment Station, Laramie

KLINGMAN, D. Plant the right wheat varieties  
for Wyoming. Wyo. Agr. Expt. Sta. C. 31, 4 p.-folder.  
Feb. 1948. 100 W99

KLINGMAN, D. Plant these oat and barley  
varieties in Wyoming. Wyo. Agr. Expt. Sta. C. 32, 4 p.-  
folder. Mar. 1948. 100 W99

DENNING, D. G. The crested wheat bug  
[Labops hesperius]. Wyo. Agr. Expt. Sta. C. 33, 2 p.  
May 1948. 100 W99

WYOMING. AGRICULTURAL EXPERIMENT  
STATION. The use of oxygen in the hatching of chicken  
and turkey eggs at high altitudes, by M. W. Meshew.  
Laramie, 1948. 9 p. (Prog. Rpt.) 47 W99



STATE AGRICULTURAL EXTENSION SERVICE  
PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arkansas University, College of Agriculture, Agricultural Extension Service, Little Rock

VANNOY, J. 4-H Club manual in foods and cookery; demonstration No. 2. Ark. Agr. Col. Ext. C. 368, rev., 12 p. May 1947. 275.29 Ar4

VANNOY, J. 4-H Club manual in foods and cookery; demonstration No. 3. Ark. Agr. Col. Ext. C. 369, rev., 8 p. May 1947. 275.29 Ar4

California University, College of Agriculture, Agricultural Extension Service, Berkeley

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Seasons for California crops and livestock, by G. B. Alcorn. Berkeley, 1948. 16 p. 275.2 C12Sec

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Second annual almond efficiency study, Sutter County, 1947, by B. B. Burlingame and R. H. Klamt. Berkeley? 1948? 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Thirteenth annual report of the Lassen County beef management study, 1947; study average price, income, costs, and profit over 13 years, by T. S. Brown and A. Shultis. Berkeley? 1948? 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Ventura County citrus orchard management study, Valencia oranges and lemons, 1947; an analysis of costs, yield, and income. Berkeley? 1948? 25 p. 275.29 C12En

Colorado State College of Agriculture, Extension Service, Fort Collins

MICKLE, G. T. Insect pests of stored grain. Colo. Agr. Col. Ext. C. 151-A, 2 p. May 1948. 275.29 C71C

HENDERSON, W. J., and MICKLE, G. T. The Dutch elm disease and its carrier, the smaller European elm bark beetle [*Scolytus multistriatus*]. Colo. Agr. Col. Ext. C. 155-A, 11 p. July 1948. 275.29 C71Ci

COLORADO. AGRICULTURAL AND MECHANICAL COLLEGE. Artificial breeding of dairy cattle. Colo. Agr. Col. Ext. C. 160-A, 4 p.-folder. July 1948. 275.29 C71Ci

DRAGE, C. M. 4-H home beautification manual and record book. Colo. Agr. Col. Ext. C. 2096, 21 p. Mar. 1947. 275.29 C71C

Connecticut University, College of Agriculture, Agricultural Extension Service, Storrs

WALKER, W. R., and others. Grain; ways to save it. Conn. Agr. Col. Ext. Folder 18, 8 p. Dec. 1947. 275.29 C76Ex

R. E. Jones, D. C. Gaylord, and J. L. Buckley, joint authors.

CHAPPELL, W. E. Your Freedom Garden. Conn. Agr. Col. Ext. Folder 21, 4 p. Mar. 1948. 275.29 C76Ex

BROWN, B. A. Grasses for lawns, parks and athletic fields. Conn. Agr. Col. Ext. Folder 22, 8 p. Mar. 1948. 275.29 C76Ex

CZAJKOWSKI, J. M. Preparing frozen foods for your table. Conn. Agr. Col. Ext. Folder 23, 8 p. Apr. 1948. 275.29 C76Ex

Delaware University, School of Agriculture, Extension Service, Newark

DELAWARE. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Delaware's fruit spray schedules for 1948. Del. U. Agr. Ext. C. 57, 7 p. Mar. 1948. 275.29 D37C

HEUBERGER, J. W., STEARNS, L. A., and STEVENS, R. F. Home orchard insect and disease control. Del. U. Agr. Ext. C. 58, 10 p. Mar. 1948. 275.29 D37C

PHILLIPS, C. E. Lawns. Del. U. Agr. Ext. Mimeog. C. 50, 3 p. Apr. 1948. 275.29 D37M

STEVENS, R. F. Ten points for increasing tomato yields. Del. U. Agr. Ext. Mimeog. C. 51, 8 p. Apr. 1948. 275.29 D37M

Hawaii University, Agricultural Extension Service, Honolulu

FOSTER, Z. C. The farmer and the 1948 agricultural conservation program. Hawaii. U. Agr. Ext. C. 252, 3 p. Aug. 1948. 275.29 H412Ac

Illinois University, College of Agriculture, Extension Service, Urbana

JUGENHEIMER, R. W., LENG, E. R., and WOODWORTH, C. M. Illinois experimental hybrid corn tests, 1946. Ill. Agr. Col. Ext. AG1331, 13 p. Apr. 1947. 275.29 IL62Pag

JUGENHEIMER, R. W., LENG, E. R., and WOODWORTH, C. M. Performance of inbred lines and single crosses of corn, 1946. Ill. Agr. Col. Ext. AG1334, 24 p. Apr. 1947. 275.29 IL62Pag

FUELLEMAN, R. F., BURLISON, W. L., and KAMMLADE, W. G. Investigations on agronomy pasture plots. Ill. Agr. Col. Ext. AG1335, 7 p. June 1947. 275.29 IL62Pag

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Guide to agronomy experiments. Ill. Agr. Col. Ext. AG1336, 9 p. 1947. 275.29 IL62Pag

SNIDER, H. J. Protein in open-pollinated and hybrid corn. Ill. Agr. Col. Ext. AG1340, 5 p. Aug. 1947. 275.29 IL62Pag

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Three years of sunflower seed production in Piatt County, Illinois. Ill. Agr. Col. Ext. AG1341, 10 p. Sept. 1947. 275.29 IL62Pag

FUELLEMAN, R. F., MCKIBBEN, G. E., and SLIFE, F. The use of 2,4-D for killing weeds. Ill. Agr. Col. Ext. AG1351, 9 p. Jan. 1948. 275.29 IL62Pag

JUGENHEIMER, R. W., and others. Performance of inbred lines and single crosses of corn, 1947. Ill. Agr. Col. Ext. AG1352, 22 p. Jan. 1948. 275.29 IL62Pag

L. F. Bauman, E. R. Leng, and C. M. Woodworth, joint authors.

JUGENHEIMER, R. W., and others. Illinois experimental hybrid corn tests, 1947. Ill. Agr. Col. Ext. AG1354, 18 p. Jan. 1948. 275.29 IL62Pag

L. F. Bauman, E. R. Leng, and C. M. Woodworth, joint authors.

RUNDQUIST, J. F., DUNGAN, G. H., and BONNETT, O. T. Spring oats; results of variety tests at Mt. Morris and Urbana, Illinois. Ill. Agr. Col. Ext. AG1355, 4 p. Feb. 1948. 275.29 IL62Pag

FUELLEMAN, R. F. Ladino clover. Ill. Agr. Col. Ext. AG1358, 11 p. Mar. 1948. 275.29 IL62Pag

FUELLEMAN, R. F., BURLISON, W. L., and KAMMLADE, W. G. Investigations on agronomy pasture plots. Ill. Agr. Col. Ext. AG1365, 8 p. May 1948. 275.29 IL62Pag

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Newcastle disease in poultry. Urbana? 1947. 4 p.-folder. 275.2 IL62N

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 1947 National 4-H food preparation program. Urbana? 1947. 6 p.-folder. 275.2 IL62On

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. A professional organization for homemakers. Urbana, 1947. 8 p.-folder. 275.29 IL62Phep



Iowa State College of Agriculture, Agricultural Extension Service, Ames

MCDONALD, C. W. Approximate feed requirements for livestock. Iowa. State Col. Agr. Ext. Pam. 121, 4 p. June 1947. 275.29 Io9Pa

IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The farm milk house. Iowa. State Col. Agr. Ext. Pam 126, 7 p. Oct. 1947. 275.29 Io9Pa

Kansas State College of Agriculture and Applied Science, Extension Service, Manhattan

WIGGINS, M. C. Your wardrobe needs—tailoring coats. Kans. State Col. Agr. Ext. C. 89, 20 p. 1947. 275.29 K13Ex

LIND, R. C., and HARPER, H. B. Save your soil. Kans. State Col. Agr. Ext. C. 204, 8 p. June 1948. 275.29 K13Ex

KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. Dairy program, and balanced farming. Manhattan, 1947. 6 p. 275.2 K133Da

Maryland University, Colleges of Agriculture and Home Economics, Extension Service, College Park

MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Handbook for 4-H Club leaders. Md. Agr. Col. Ext. B. 117, 54 p. Mar. 1947. 275.29 M36B

GRAHAM, C., and others. 1948 Maryland spray calendar for apples and peaches. Md. Agr. Col. Ext. B. 118, 13 p. Jan. 1948. 275.29 M36B

T. L. Bissell, A. F. Vierheller, and W. F. Jeffers, joint authors.

JEHLE, R. A. Requirements for seed potato production and certification. Md. Agr. Col. Ext. B. 119, 34 p. Ref. May 1948. 275.29 M36B

COX, C. E., and STARK, F. C., JR. Tomato late blight and its control. Md. Agr. Col. Ext. C. 151, 6 p.-folder. Feb. 1947. 275.29 M36L

BISSELL, T. L. Protecting corn from corn borer [Pyrausta nubilalis] and Japanese beetle [Popillia japonica]. Md. Agr. Col. Ext. C. 153, 6 p.-folder. May 1948. 275.29 M36L

CORY, E. N., and LANGFORD, G. S. Japanese beetle [Popillia japonica] and its control. Md. Agr. Col. Ext. C. 154, 8 p.-folder. June 1948. 275.29 M36L

Michigan State College of Agriculture and Applied Science, Extension Division, East Lansing

GATSON, H. P., LOVE, A. B., and BOYD, J. S. Homes for seasonal farm help. Mich. State Col. Agr. Ext. Farm Bldg. Serv. C. 711, 28 p. June 1947. 275.29 M58Fa

Missouri University, College of Agriculture, Agricultural Extension Service, Columbia

MISSOURI. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Test your soil. Columbia? 1948? 6 p. 275.2 M69Tes

Montana State College, Extension Service, Bozeman

WILSON, E. B. Walk-in freezer construction. Mont. State Col. Ext. C. 182, 7 p. May 1947. 275.29 M76Ci

New Jersey State College of Agriculture and Mechanic Arts, Extension Service, Rutgers University, New Brunswick

MACLINN, W. A., and DOERMANN, M. C. Frozen foods. N. J. Agr. Col. Ext. B. 249, 20 p. May 1948. 275.29 M46

NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 4-H parent. N. J. Agr. Col. Ext. Leaflet 12, 4 p. Dec. 1947. 275.29 N46L

FARNHAM, R. B., and others. Storm injured trees. N. J. Agr. Col. Ext. Leaflet 13, 4 p. Jan. 1948. 275.29 N46L

R. P. Korbobo, C H Connors, and A. N. Lentz, joint authors.

GARRISON, C. S., and BAYLOR, J. E. Tips on growing spring oats. N. J. Agr. Col. Ext. Leaflet 14, 8 p. Mar. 1948. 275.29 N46L

NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 4-H junior leadership project. N. J. Agr. Col. Ext. Leaflet 15, 6 p. Apr. 1948. 275.29 N46L

LENTZ, A. N. Pruning pine plantations. N. J. Agr. Col. Ext. Leaflet 16, 4 p. Apr. 1948. 275.29 N46L

BLACK, L. M., and KRUEGER, W. C. Community "clean-egg" nest. N. J. Agr. Col. Ext. Leaflet 17, 4 p. June 1948. 275.29 N46L

TAYLOR, J. C. Raising your 4-H chicks. N. J. Agr. Col. Ext. Leaflet 18, 4 p. June 1948. 275.29 N46L

LENTZ, A. N. A guide to forest tree planting in New Jersey. N. J. Agr. Col. Ext. Leaflet 19, 4 p. May 1948. 275.29 N46L

HANSENS, E. J. Fly control in farm buildings. N. J. Agr. Col. Ext. Leaflet 20, 4 p. June 1948. 275.29 N46L

NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. Newcastle vaccine. N. J. Agr. Col. Ext. Leaflet 21, 4 p. July 1948. 275.29 N46L

New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

GOODMAN, A. M. Homes for laying hens. N. Y. Agr. Col. Cornell Ext. B. 451, rev., 46 p. Aug. 1948. 275.29 N48E

GOODMAN, A. M. Remodeling barns for better dairy stables. N. Y. Agr. Col. Cornell Ext. B. 742, 68 p. Sept. 1948. 275.29 N48E

SOUTHWICK, F. W., and HURD, M. Harvesting, handling, and packing apples. N. Y. Agr. Col. Cornell Ext. B. 750, 37 p. Sept. 1948. 275.29 N48E

North Carolina University, State College of Agriculture and Engineering, Extension Service, State College Station, Raleigh

RATCHFORD, C. B. Suggested plan for the medium Southern Piedmont cotton farms. N. C. Agr. Col. Ext. C. 320, 10 p. July 1948. 275.29 N811

RATCHFORD, C. B. Suggested plan for the large Southern Piedmont cotton farms. N. C. Agr. Col. Ext. C. 321, 12 p. July 1948. 275.29 N811

HERRICK, L. W., JR. Growing turkeys. N. C. Agr. Col. Ext. C. 322, 14 p. July 1948. 275.29 N811

WOODHOUSE, W. W., JR., LOVVORN, R. L., and DOBSON, S. H. Producing pastures and hay in North Carolina. N. C. Agr. Col. Ext. C. 323, 4 p. Aug. 1948. 275.29 N811

JONES, T. K., and JAMES, H. B. Converting to grade A milk production. N. C. Agr. Col. Ext. C. 324, 4 p. Sept. 1948. 275.29 N811

NORTH CAROLINA. UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. A farm program for North Carolina. Raleigh? 1948. 43 p. 275.2 N81Far

Ohio State University, College of Agriculture, Agricultural Extension Service, Columbus

SITTERLEY, J. H. Planning my farm business; characteristics of a good farm organization. Ohio. Agr. Col. Ext. B. 211, rev., 43 p. 1947. 275.29 Oh32

SLIPHER, J. A. Manure: its management in barn and field. Ohio. Agr. Col. Ext. B. 262, 32 p. Jan. 1947. 275.29 Oh32

BEARD, R. When you buy your automatic refrigerator. Ohio. Agr. Col. Ext. B. 276, 4 p. Mar. 1947. 275.29 Oh32

BEARD, R. When you buy your power ironer. Ohio. Agr. Col. Ext. B. 277, 4 p. Mar. 1947. 275.29 Oh32

Oklahoma Agricultural and Mechanical College, Extension Division, Stillwater

WHITEHEAD, E. L. Fall gardening. Okla. Agr. Col. Ext. C. 486, 3 p. 1948? 275.29 Ok41C



PHAGAN, C. V. Plans for temporary corn cribs. Okla. Agr. Col. Ext. C. 490, 6 p. 1948? 275.29 Ok41C

Oregon State College, Federal Cooperative Extension Service, Corvallis

OLIVER, H. Factors in range cattle management. Oreg. State Col. Ext. B. 690, 15 p. July 1948. 275.29 Or32B

MINDEN, M. B. Selecting an automatic washing machine. Oreg. State Col. Ext. C. 519, 6 p.-folder. July 1948. 275.29 Or32C

HUBER, M. G. A portable stack-yard fence. Oreg. State Col. Ext. C. 520, 4 p. Aug. 1948. 275.29 Or32C

HUBER, M. G. Corrals for spraying cattle. Oreg. State Col. Ext. C. 521, 3 p. Aug. 1948. 275.29 Or32C

BOUQUET, A. G. B. Sweet potatoes. Oreg. State Col. Ext. C. 522, 4 p. Sept. 1948. 275.29 Or32C

MOTE, D. C., and EVERY, R. W. Sheep tick [Melophagus ovinus] control. Oreg. State Col. Ext. C. 523, 3 p. Sept. 1948. 275.29 Or32C

Puerto Rico University, College of Agriculture, Extension Service, Río Piedras

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Resumen de la ley de cooperativas. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 11, rev., 3 p. Mar. 1947. 275.29 P962F

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Los socios son los dueños de una cooperativa. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 14, 3 p. Feb. 1947. 275.29 P962F

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Por qué son tan baratos los préstamos de una cooperativa de crédito? Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 15, 2 p. Feb. 1947. 275.29 P962F

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Cooperativas de crédito: la reunión anual. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 16, 2 p. Feb. 1947. 275.29 P962F

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Por qué no debe fiar su cooperativa. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 17, 2 p. June 1947. 275.29 P962F

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Cooperativas de crédito: qué es una cooperativa de crédito? Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 19, 8 p. Aug. 1947. 275.29 P962F

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Ahorro. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 20, ed. 2, 11 p. Jan. 1948. 275.29 P962F

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Educación. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 22, 5 p. Oct. 1947. 275.29 P962F

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Crédito. Puerto Rico. Agr. Col. Ext. Dept. Coop. Folleto 24, 5 p. Dec. 1947. 275.29 P962F

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. A sus órdenes! Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 18, ed. 2, 6 p. Jan. 1948. 275.29 P962

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Crédito. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 24, ed. 2, 9 p. Apr. 1948. 275.29 P962

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Organizando cooperativas de consumo. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 25, 9 p. Jan. 1948. 275.29 P962

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Obtenga mejor precio por sus tomates. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 26, 3 p. Jan. 1948. 275.29 P962

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. El comité de organización. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 27, 6 p. Jan. 1948. 275.29 P962

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Qué es una cooperativa de pescadores. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 28, 3 p. Jan. 1948. 275.29 P962

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. La junta de directores. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 29, 5 p. Feb. 1948. 275.29 P962

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Los empleados de la cooperativa. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 30, 2 p. Feb. 1948. 275.29 P962

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. El comité de supervisión. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 34, 4 p. Mar. 1948. 275.29 P962  
Credit cooperatives.

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Cómo solicitar un préstamo. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 36, 3 p. Apr. 1948. 275.29 P962

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. El movimiento cooperativo. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 37, 20 p. Apr. 1948. 275.29 P962

South Carolina, Clemson Agricultural College, Extension Service, Clemson

SOUTH CAROLINA. CLEMSON AGRICULTURAL COLLEGE. EXTENSION SERV. Agricultural progress in South Carolina; annual report of director, cooperative extension work, 1947. Clemson, 1948? 63 p. 275.29 So8A

Texas Agricultural and Mechanical College, Agricultural Extension Service, College Station

BENTLEY, M. R., ROSBOROUGH, J. F., and HEATON, C. R. Subirrigation for gardens. Tex. Agr. Col. Ext. B. 92, rev., 11 p. June 1947. 275.29 T312

BEANBLOSSOM, F. Z. Merchandising turkeys. Tex. Agr. Col. Ext. B. 163, 19 p. 1948. 275.29 T312

THORNTON, M. K. Fertilizer recommendations for Texas, 1948-1949. Tex. Agr. Col. Ext. B. 165, 15 p. 1948. 275.29 T312

MARTIN, T., and PARNELL, E. D. Feeding hens for egg production. Tex. Agr. Col. Ext. C. 33, rev., 8 p. May 1947. 275.29 T312C

BARNES, G. W., and SMITH, A. L. Guide for feeding beef calves. Tex. Agr. Col. Ext. C. 226, rev., 11 p. June 1947. 275.29 T312C

TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. The seventh year of record production. College Station, 1948. 20 p. 275.29 T312A

Utah State Agricultural College, Extension Service, Logan

UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. Utah extension service work in 1947. Utah. State Agr. Col. Ext. B. 160, 39 p. June 1948. 275.29 Ut1

BARKER, J. R. Measurement of irrigation water; a handbook of discharge tables for ditch riders and irrigators. Utah. State Agr. Col. Ext. B. 166, 28 p. n. d. 275.29 Ut1

SMITH, L. P., and SHIPLEY, F. Costumes to meet your needs; advanced 4-H clothing projects. Utah. State Agr. Col. Ext. B. 168, 16 p. June 1948. 275.29 Ut1

UTAH. STATE AGRICULTURAL COLLEGE. EXTENSION SERV. 4-H for health. Utah. State Agr. Col. Ext. B. 169, 10 p. June 1948. 275.29 Ut1

MILLER, E., and SHIPLEY, F. "Learn about luncheons" 4-H Foods Project—Phase II. Utah. State Agr. Col. Ext. B. 170, 30 p. June 1948. 275.29 Ut1

MILLER, E. Carry yourself with pride. Utah. State Agr. Col. Ext. B. 171, 27 p. Aug. 1948. 275.29 Ut1



KNOWLTON, G. F. Bees and alfalfa seed production. Utah. State Agr. Col. M. S. 770, 1 p. Sept. 24, 1948. 275.29 UtlMs

Virginia Agricultural and Mechanical College and Polytechnic Institute, Agricultural Extension Division, Blacksburg

VIRGINIA. AGRICULTURAL AND MECHANICAL COLLEGE AND POLYTECHNIC INSTITUTE. HORTICULTURE DEPT. Information for Virginia fruit growers, 1947. Va. Agr. Col. Ext. B. 131, rev., 47 p. Feb. 1947. 275.29 V81B

Departments of Plant Pathology and Entomology cooperating.

VIRGINIA. AGRICULTURAL AND MECHANICAL COLLEGE AND POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION DIV. 4-H project manual; raising the dairy calf. Va. Agr. Col. Ext. C. 378, rev., 6 p.-folder. June 1947. 275.29 V81C

VIRGINIA. AGRICULTURAL AND MECHANICAL COLLEGE AND POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION DIV. Larger yields and better quality tobacco. Va. Agr. Col. Ext. C. E-386, rev., 6 p.-folder. Jan. 1947. 275.29 V81C

Washington State College, Extension Service, Pullman

WICHERS, H. E. Farmhouse planning is easy. Wash. State Col. Ext. B. 377, 9 p. July 1948. 275.29 W27P

WASHINGTON. STATE COLLEGE. EXTENSION SERV. Washington's 1947 Dairy Herd Improvement Report. Pullman? 1948? 100 p. 275.29 W27Wd

West Virginia University, College of Agriculture, Agricultural Extension Service, Morgantown

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Managed milking, by I. D. Porterfield and R. A. Ackerman. Morgantown? 1948. 6 p.-folder. 275.2 W52Mm

Wisconsin University, College of Agriculture, Agricultural Extension Service, Madison

AHLGREN, H. L., and GRABER, L. F. Safe-guarding new seedings. Wis. Agr. Col. Ext. C. 300, rev., 8 p. Mar. 1948. 275.29 W75C

WITZEL, S. A., and ANNIN, G. E. A colony house on pasture for healthier chicks, cheaper feeding. Wis. Agr. Col. Ext. C. 336, rev., 8 p. May 1948. 275.29 W75C

VAUGHAN, R. E., and FISHER, E. H. For better potatoes, control diseases & insects. Wis. Agr. Col. Ext. C. 379, 16 p. May 1948. 275.29 W75C

Wyoming University, College of Agriculture, Agricultural Extension Service, Laramie

MARSTON, B. W., and BAIRD, M. Now we demonstrate. Wyo. Agr. Col. Ext. C. 62, rev., 21 p. Apr. 1947. 275.29 W99C







	Item		Item		Item		Item		Item
Aaberg H C	6144	Alexopoulos C J	298	Andrade Sobrinho J de	834	Arnold E H	6857	Azuma H	2234
Aagaard F	7240	Algemeene Neder-landsche Zuivelbond	5493	André A	1235	Arnold E L	5178	Azzi G	467
Aamodt O S	939	Alger J	1312	André M E	764	Arnold R E	1304-5	Azzi R	7123
Aartsen J P van	1070	Alibert H	4546	Andrés F	299	Arnold R M	3510	Baak J A	1840
Abadia Morales J	6145	Alkins H F	6490	Andrews G W	6383	Arnould C	4959	Babcock C J	5620
Abbott H T	1	Allaman R P	1287	Andrews M	5967	Arnoule C	3997	Babcock H E	6150
Abel G W	2470	Allan W S	4091	Andrews W B	1923	Arnst A	2638	Babcock H E	6150
Abonnenc E	4564	Allegaert E	1606	Andrus C F	411	Aronovsky S I	6060	Babson R W	5320
Abramov S A	3503	Allen D	2813	Anduze P J	4201	Arruda A F de	1071	Baccelli A	6384
Abrams E H	2285	Allen D L	1301	Angely J	3	Arruda L F de	515	Baccigaluppi H	5416-17
Abreu J de	3019	Allen F D	6056-7	Aniansson G	5034	Arrue Astiazaran A	7019	Bach L G	4621
Acedarach M	1299	Allen H W	4740	Annereaux R F	3735	Arthur D R	4406	Bacher T	1083
Achterberg A	2085	Allen J J	3975	Annin G E	5102	Arthur J C Jr	6292	Bachrach J	6133
Ackerman C B	7114	Allen L C	2175	Anslo W P Jr	3414	Arvidson R B Jr	3634	Bacon J A	4645
Ackerson C W	3665	Allen R W	4061	Anson M L	5415	Arvy L	581	Bacon O G	4729
Acosta H	5273	Allerton F W	217	Antes W	2087	As L W van	2557	Bade O M	2691
Acosta Solis M	2308-9	Allington W B	194	Anthony D J	4547	Aschenbrenner F	5276	Badhwar R L	1750
Adair W	2983	Alliot H	2604	Anthony J L	1924	Asdell S A	2795	Badia V	6063
Adam W B	5914	Allison F E	580	Antigua Dept of Agr	7433	Asgeirsson R	4548	Baens-Arcega L	6492
5965-6 5998-9	6022	Allo A V	6856	Antipin D N	2885	Ashbrook F G	3459	Baer B H	6013
Adams M E	6292	Allstatt G E	424	Antoine S	2310-11	Ashdown D	4834	Baert J	7020
Adams P de O	7015	Allue A	5881	Antonov V A	3549	Ashley T E	840	Baeyens J	2260
Adams R J	3578	Almeida C F de	6959	Aparisi Mocholi A	7101	Ashton G C	2815	Bagge H	1751
Adams R L	7016	Almeida C L de	4638	Appalachian Apple Serv	5934	Ashton J R	1072	Bagué J	2886
Adams-Acton M	1300	Almeida J R de	6491	Appelroth E	2312	Ashton L M	7455	Bahadur S R	2472
Adarraga J	1919	Almqvist C J	2356	Apple J W	4671	Ashworth D	1306	Baigent L E H	2376
Addicott N	579	Alp H H	3855	Aquino F (Hijo)	6586	Ashworth R de B	5234	Bailey A E	6267
Adlem E L	2741	Alpeter E	3580	Aramayo H	1711	Askew H O	582	Bailey J S	1236
5492		Althaus W G	2605	Arán S	2984	Aslander A	1702	Bailey J W	3196-7
Adler B	3655	Alvarado C A	4607	Arant F S	4225	Asmis W	5277	Bailey R R	6858
Adler S	4405	Alvaré M de	6734	Araujo A A de	941	Asmundson V S	3583-4	Bailey R Y	1902
Adolph R H	6381	Álvarez Calderón R	6146	Araujo J E G	1839	Asociacion de Criadores y Propietarios de Caballos Peruanos de Paso	3553	Bailey V D	3150
Adriance G W	1920	Amaral L	4889	Arbeitsgemeinschaft zur Förderung des Futterbaues	942	Assenowa K	5585	Baily A L Jr	100
Adriani J	3394	Amat A E de	6147	Arbelaez Manrique A	7018	Atkins F C	301	Bain D C	412
Aersøe H	3009	Ambrosi M	6735	Arbour M B	4995	Atkins I M	917	Bain J M	5663
Afridi M K	4606	Ameel E C	1302	Arceneaux G	1045-8	Atkins J G	218	Bainbridge J	7479
Afzal M	915	Amelinckx F	2	Archer L T	5275	Atkinson C P	5778	Baines G G	2664
Agarwala R P	2086	American Kennel Club	3419	Archer R K	3242	Atkinson F M	6061	Baird M	7192
Agcaolli F	1748	American Meat Inst	6148	Arches M D	3582	Atkinson I	6051	Baird T J	1308
Agerberg L S	1604	American Rice Growers Assoc	6058	Archibald E E A	466	Atkinson N	5297	Bakalor S	5546
Agertoft K	5054	American Wool Council	5777	Arentoft M	6473	Attolini J	6062	Baker B	1309
Agrell G	7096	Amerine M A	5414	Arenz B	1925	Aubert P	6000	Baker E T	6249
Agrell I	4465	Amiet E R	3774	Arey J A	3011	Aubert de La Rue E	4	Baker F H	6217
Agricultural Res Inst of North Ireland	7530	Amizet A	1288	Argentina Dirección General de Inve-tigaciones	7531	Auclair J L	4328	Baker F S	2473
Aguirre Júnior J M	931	Amizet L	1288	Argentina Instituto de Sanidad Vegetal	49	Audley R S	5779	Baker G	2632
Ahlberg O	4174	1700		216		August W A	2399	Baker G L	5968
Ahlgren H L	802	Amos J M	4327	Argentina Ministerio de Agricultura		Aujeszky L	7522	Baker H G	484
Aikin A	7511	Amschler W	6149	Dirección de Cultivos Especiales	1029	Ault W C	6370	Baker J A	3198
Ainsworth G C	2884	Amsden J	3581	Arias J B	1749	Ausemus E R	835	Baker K F	219
Airy Shaw H K	164	Anás W	5601	Aries R S	2674	Ausman L H	5197	Baker M P	5547
Akerblom E	3552	Anashin A G	1607	Aristizabal Estrada J	2814	7318		Baker O E	5198
Akers J	99	Anchel M	763	Arkadaksii V P	4833	Austin C F	3477	Baker R C	5064-5
Akesson N B	4778	Ander K	4175	Ark Resources and Devlpt Comn	7434	Australia Council for Scientific and Indus Res Div of Forest Products	2614-16	Baker R H	6967
Akesson T	5062	Anders R L	3373	Armiger W H	1926	2639 2722-23		Baker W H	178
Akker van den	1202	Anders W	5274	Armitage E R	5234	Australia Deleg to Food and Agr Organ of the United Nations	7518	Baker W J	2640
Ala Leg Ref Serv	6855	Andersen E K	4000	Armour and Co Livestock Bur	6248	Auten E Jr	1307	Bakker S	3505
Alarcon P J	5413	Andersen L	7241	Armstrong G M	300	Autsch H	1073	Balakrishnan M S	195
Alarcón C P J	1747	Andersen T	1701	Armstrong J K	300	Awera G V	6546	Balasubrahmanyam R	538 918
Alarcón Ch P J	5141	Anderson A	3377	Armstrong J M	4996	Avens A W	4202	Balch C C	3199
Alba R T	5488	Anderson A E	6628-9	Armstrong L M	3012	Avery T B	6418	Baldacci E	303
Albertario P	1921	Anderson A W	1303	Armstrong W H	3736	Avis J H	2088	Baldoni R	583
Albertini F	6055	6247		Arnason A P	4466	Axelsson J	2816-9	Baldwin E M Jr	4062
7017		Anderson C C	1289	4813		3148-9		Baldwin H I	2542
Alberts H W	832	Anderson D A	2357	Arnett R H Jr	4608	Axworthy R	3737	Baldwin S G	5
2738		Anderson E E	3856-7	Arniches F	7362	Aybar Z A	3585	Balfour-Browne J	4467
Albrecht W A	733	Anderson E G	536	Arnim G W von	2266	Ayers A L	6293	Baliga M N	6294
940 1883 1922		Anderson E O	5646	Arnold C Y	4671	Ayyangar G S	483	Ball C E	5035
Alcover M	833	Anderson H G	6059			Azad R N	290	Ball W	4407
Alde M R	1748	Anderson H W	422			Azevedo J F de	3374	Ballard F L	6738
Aldous A M	4326	Anderson J O	3659					Ballatore G P	584
Alekseenko F M	3504	Anderson R L	916					Ballu T	5036
Alexander A K S	3579	Anderson R W	3664					Bally A C	7127
3656-8 3854	5063	3862							
Alexander C P	4545	Anderson W N	3010						
Alexander L M	6382	Andersson Y	2812						
Alexandrov	4644	4977							



	Item		Item		Item		Item		Item
Balog D Z	2176	Bauman L F	868	Benoist R	4835	Bilston K W	2822	Bloxom J M	5935
Balsley J R Jr	1897	870		Bensa S	588	Binet L	3376	Bluck W L	7245
Balthis F K	1310	Baur	804	Benson A P	7438	Bingham F	1854	Blue W G	733
Baltzer A C	3151	6066		Benson C W	1317	Bingley L T	1320	Blum A E	5243
Baltzer C E	2739	Bavendamm W	2453	Bentley M R	2091	Binkley W W	6493	Blum J P	6068
Bamforth G	5166	Baylor J E	855	Bentsova V N	4648	Binns W	4072	Blume J C	3292
Banco Agricola de		Bazin S	642	Berg L R	3662-3	Biraghi A	1610	Boan J	2178
Bolivia	6587	Beach R	1312	3891		Birch C H	1321	Boas I H	2692
Banco Agricola y		Beadle G W	539	Bercaw L O	7129	Birch H F	2244	Boceta Durán V	7003
Pecuario	6588	7437		Berg W V D	5548	Bird H R	3741	7131	
Banfield G L	6859	Beagle A G	4418	Bergamino Gluria A		Birkett B	4611	Boddy H	2092
Bankowski R A	3738	Beall A	5666	5268		Birkett C B	7319	Bodé L	2269
3757		Beals H A	1313	Berge S	3290	Bischoff W H	1174	Bodeux G	2402
Banks F R	3285	Beamer L C	6001	Bergeiro J M	7523	Bishop A	3742	Bodin-Joyeux R	6218
Banks H A	6631	Beamer R H	4647	Berger G	4468	Bishop D W	3203	Bodsworth C F	1874
Banzon J	6295-6	Beamish H V	2683	Berger W	5744	Bishop J C	805	Boell E J	7441
Baqué Z	6860	Beanblossom F Z		Bergeson V A	2985	Bishop L K	3791	Boer E de	2888-9
Barager C P	7435	6386		Berghuis J	1124	Bishopp F C	4203	Boerger A	1885
Barber C W	3739	Bear E M	5969	Bergold G	448	Bissell T L	4235	Bogaert L van den	
3851		Beard J W	4155	4731-2	4826	4733		1324	
Barber G W	4568	Beard R	4997	Bergstrom H	2675	Biswas H G	767	Bogardus T L	6004
Barber H A	5278	7512		Berkeley G H	454	5591		Boggs L C	6426
Barber H G	4646	Beard R L	4730	Berkley E E	2617	Bittencourt O V de C		6990	
Barbich M T	6385	Bearse G E	3662-3	Berkner	1609	7244		Bogoroditskiy A V	
Barcelo J L	4890	3891 6426		Berkshire H	6262	Bivins J A	3743	3204	
Baren F A van	1817	Beatus R	485	Bermejo Zuazúa A		Bjaanes M	839	Bohanan L B	7087
Barer R	7436	Beau	5496-7	4891		Bjanes O T	4863	Bohm F	1614
Barger J W	7021	Beaufils	4022	Bern Botanische		Bjerner S	5187	Böhm H	4470
Barker B T P	5882	Beaumont A B	1884	Institut	10	Björning K	425	Böhme	1705
Barker J R	2089	Beaurain E	6739	Bernadskaja Z M		Björn A S	6003	Böhme C	6969
2177		Bechuanaland Forest		3204		Björnstad A	426	Bohorquez C J J	3554
Barki V H	7426	Officer	2400	Bernaerts M J	5549	Black D L	6301	Bohórquez J J	3205
Barkley M S	3286	Beck C	1314	Bernard P	2243	7078		Bohren B B	3603
Barkley P	5142	Beck G	3201	2267 2821	6067	Black L A	5394	Boisfarshinov P K	2890
Barkley S G	2242	Beckel A C	6297	6863		5570		Boiko P	305
Barlow J S	3660	Becker C F	7128	Bernard S	4329	Black L M	4960	Boischot P	1841
Barnes D F	4255	Becker J A	5399	Bernasconi G	7025	Blackburn B	1322	Boisvert O	2986
4759		Becker J E	7385	Bernett A W	4382	Blackburn R	5067	Boivin R	5247
Barnes G W	3152	Becker M	2820	Bernuth J von	286	Blackburn S	5781	Böker H	5199
Barnes V (Hijo)	6	Becker R B	3289	Berry A E	5179	Blackie J E H	4734	Bolton J	3206
Barnes W C	1608	Beckerich A	6689	Berry G H	1318	Blackiston E	3421	Bolton J W	3589
Barnicoat C R	5664	Beckett O	1928	Berry L N	3861	Blackmon G H	1930	Bolton W	3752
Barona G	6260	Beckman C H	3375	Berry R C	5745	Blackwelder R E	7439	Bombay Dept of	
Baroni O	4408	Beckman H J	2090	Berry R L	7043	Blackwell H L	3587	Agr	7442
Barott H G	3858	6261		Bertelsen J	1125	Blackwell L	6387	Bompard A	5421
Barr C G	765	Bedard J A E	3740	Berthault P	6849	Blackwood B B	457	Bonadonna A	3015
Barr J R	7432	3859		6864 7243		Blain M	4008	Bond R W	2606
Barrachina V	1122	Bedford C L	6002	Berthelton M	3202	Blair K G	4694	Bonfield J P	5020
Barrau J	1752	Bedoukian P Z	6298	Berthet R	5883	Blake S F	102	Bongiovanni G C	4697
Barraud E M	6704	Beck A O de	1316	Bertram D S	4836	Blakely R M	3664	4471	
Barre H J	6064	Beeler M N	5066	Bertramson B R	1824	3862		Boni A	1127
Barrentine B F	3153	Bégin P E	6299	Bertrand F	221	Blanch G T	2159	4472	
Barrer P R	5537	Behrens M E	3976	Bertrand H	4177	Blanchard L E	1074	Bonnet P	1755-6
Barrett M A	5665	Beilmann A P	587	Bertsch M	3014	Blanchet J	7440	4205	
Barrio M del	6861	Beilmann A T	1753	Bertuzzi A	5419	Blanco Casas A	1611	Bonnett O T	906
Barron E S G	4808	Beinke E G	6968	Berville P	4469	Blanken W C	5420	Bonnicel R	427
Barron H	6464	Belai A	1123	Betts J	5025	Blankenheimer B		Bonomi	7026
Barry J P	585	Beil A F	6740	Beusechem D van	1929	6561		Bonsma J C	3016
663		Bell E J	3249	Bevan R	1319	Blankenship C F	5180	Bontekoe F	2093
Barry L	3287	Bell F R	3573	Bevenue A	5235	Blauch B M	4695-6	Bonz G	1203
Barshad I	1703	Bell H M	944	Bevershuis J R	2313	2441		Boock O J	1615-6
Barth	6862	Bell J C	3676	2441		Blauser I P	5143	1624	
Bartholomew M	5418	Bell T C	1063	Bevin R H	945	Blickle J D	5125	Booth V P	6867
Bartlett F A	586	Bell U M	1911	Bhar C	766	Blin H	946	Booth E	2068
Bartlett J W	3288	Bellver E A	7022-4	Bhargava P M	4297	1126 1612-13	2286	Booth E H	5783
Bartlett M S	468	Beltrán J M	3506	Bhat J V	5970	2823 3478	4023	Booth F H	7320
Bartling F W	6065	Bemis R W	3363	Bhide B V	784	4051 4063	4094-5	Booth F L	2724
Barton G	1311	Benassi L	2353	4622		5971 6151		Booth H A	2314
Barton O A	3586	Benbrook E A	2887	Bhojakara P	837	Bliss D E	4255	Boothman S	1325
3661		Bender W P	3460	Biagini E	1173	Blizzard W L	6865	Bor N L	103-5
Barton-Wright E C		Bendien H P	6547	Biale J B	796	Bloedel J H	2576	Borchers R	3665-6
5357		Benedix E H	8	Bibbey R O	589	Bloem J W	2377	Borden A D	4735-7
Basaca M	799	Benesch W	3461	Bibby F F	4178	Biohm	6866	Borgioli E	947
Bass A	1879	Benigni R	9	Bice S A	6266	Blond L	2629	Borisov I F	2923
Bassett C F	3442-4	Bening	6300	Bickerstaff A	2401	Blossfeld R	1323	Bork J H	2403
3450		Benito Cebrian N de		Bickoff E M	5235	Blouch A	5884	Borkenhagen E H	
Bates C G	2431	101		Bida W	2971	Blount W P	3588	2679	
Bates G H	943	Benlloch M	220	Biddle C J	6632	3863		Bornebusch C H	2378
Bates M	7	304		Biddulph C	4072				
Bathe D R	3200	Bennett C A	5780	Bielmann A P	1754				
Batson R H	5358	Bennett H	7077	Biggar C M	1704				
Batte E G	4176	Bennett L J	3420	Biggar W J	5115				
Battles O V	3013	Bennett O L	6207	Bilquez A F	838				
Baum E L	5495	Bennion N L	3860						
5602									



Item	Item	Item	Item	Item	Item	Item
Borovkova A M 3507	Braun O 841	Brown C H 919	Bunker H J 5424	Caldecott R S 595		
Borton J C 7321	Braun-Blanquet J 470-1	Brown E G 7391	Bünning E 593	Calder G G 2097		
Bortree A L 5550	Brause L A 6153	Brown J F 3011	Buntzel O 2776	Caldwell J S 4651		
Bosch J V D 5735	Brayne F L 7115	Brown J I 6389	Buosi E 6705	Caldwell R A 5126		
Bose A K 774	Brazier S A 6465	Brown L A 7132	Burch J W 6871-2	Caldwell R M 346		
Bose N M 6140	Brecht P 1326	Brown O A 6530	Burdette R F 5960	Cale G H 4385		
Bose S R 11	Breddy N C 1327	Brown P A 6970	Burdick R T 6381	Calero C 4552		
Boselli F B 222	Breimyer H F 5748	Brown P H 5116	Burger K 3463	Calif Dept of Agr		
Boss S 5746-7	Breirem K 2987	Brown R T 1864	Burger S 7401	Bur of Milk Control		
Bostian C H 3597	3018 3293 4052	Brown S O 3668	Burgess R W 4613	5603 5656		
Boston E J 3207	4998 5621 5749	Brown T S 6972	Burgmer J 3591	Calif Legislature		
Botelho J 6494	6154 6985 7363	Brown T T 3865	Burgos Boezo L 6635	Joint Com on Water		
Botsford H 4330	Breithaupt L 1328	Brown W L Jr 4700	Burgwedel E 4895	Problems 2098		
Bottorff C A 3749	Breitkreutz H 6869	Brown W W 2693	Burkart A 108	Calil J 1621		
3810	Brekke O L 6302	Brownell S J 3023	Burke A J 5886	Callahan J D 2359		
Botts R R 6633	Brekke T 4123	Browning A K 1863	Burkhardt G E 1078	Callan E M 4477		
Boucher B A 5667	Breland O P 4612	Browning G M 1828	Burlingame B B 6971	Callbeck L C 309		
Boucher J 6152	Bremer A H 1083	Broyles R C 4864	Burlingham G S 7481	Callenbach E W 3692		
Boucher R V 3692	Brenan J P M 106	Brozzetti P 2824	Burlison W L 958-9	Caller F 2626		
3837	127	Bruce M 3024	Burmans W 6304	Callin G 2475		
Boudol A 6741	Brenier H 5200	Bruce W H 3866	Burmeister C A 6155	Calma V C 843		
Boudru M 2474	Brenner W G 4980	6390 6743	Burmester B R 3746-7	Calzada B J 7532		
Bouffard 6634	Brettes 6634	Bruett T A 6289	Burne W R 1336	Camand 2892		
Bouffil P 768	Bretzler 4893	Bruner D W 3509	Burnett C 5498	Camara Algodonera		
Bouquet A G B 1617-18	Breviglieri N 227	3515	Burnett L C 842	del Peru 5788		
Bourbeau G A 1835	591	Bruner W E 482	Burns J A 5425	Camargo A P de 1622		
Bourdelle M J 4892	Brevis J G 1931	Bruner W H 5786	Burns R V 2179	Camargo R de 1757		
Bourdon 4383	Brewer W D 7391	Brunk M E 6245	Burr 6474	Cambier L L 6590		
Bourgin P 4179	Brezina R 228	Brunnemann F C 1619	Burr M 4701	Cambournac F J C		
Bourgin G 4649	Brian A D 4698	Brunner J R 5647	Burras W V 4865	4609-10		
Bourne A I 4303	Brian M V 4698	Bruno B 1239	Burrell A B 308	Cameron A E 1175		
Bouyoucos G J 1825-6	Briejer J C 4473	Bruns E G 5648	Burrell L 6005	4213		
234	Brierley P 451	Brunskill L 7432	Burstein M 3376	Cameron J W 772		
Bovien P 234	Brierley W G 1077	Brunson M H 4740	Burström H 594	Cameron M H V 7482		
Bowden C M 5784	Briggs F A 1827	Brush J E 6744	Burt D S 5359	Cameron S H 1176		
Bowen C F 5866	Briggs I A 7004	Brussone J J 6495	Burt B L 109-13	Camin J H 4413		
Bower C A 1842	Briggs G M 3659	Bryan A E 2559	1337	Caminopetros J P		
Bowers J L 840	3667 3673 3707	7322	Bush R 1130	5622		
Bowles C E 6388	3713	Bryan E H Jr 4207	4210	Camp W H 63		
Bowling G A 3017	Brill R R 4009	Bryan J D 5922	Bushland R C 4843	Campbell C V 6636		
Bowman A E 7480	Brinar M 2315	Bryant C B A 5552	Bushnell H H 5655	Campbell D 2680		
Bowman D R 6133	Bring S E 7246	Bryant G E 4474	Bushnell J 1620	Campbell G I 2379		
Bowman G 5422	Briolini M 2069	Bryden J D 1204	Bushnell R J 4549	Campbell H L 3592-3		
Bowman G A 5972	Briquet Junior R 3019	Bryk F 4741-2	Bustamante M E 4412	Campbell I J 4896		
Bowness E R 3462	Briscoe S 7247	4072	4550	Campbell J A 229		
Boxall W P 4331	Brissaud 2618	Bryson M J 4072	6391	840		
Boyce J S 223	Bristowe W S 4410	Buch P O 1334	Busvine J R 4211	Campbell K O 6911		
Boyd B L 3784	Britton J W 3508	Buch W 2742	4838	Campbell M H 7134		
Boyd E M 4409	Brizi A 6562	Buchanan B F 5458	Butani D K 4333	Campbell M H 7134		
Boyd J C 5551	7005	Buchanan M T 1932	Buth H 7133	Campbell R H 4064		
Boyd J S 5103	Broad E G 3422	Buchanan W D 393	Butler E 4212	Campbell W I P 1339		
5106	Broadbent H R 1875	4753	Butler H 5144	Campbell I J 4896		
Boyd O C 224-6	Broch G 7421	Bucher G R 3377	Buttazzoni G 2096	Campbell J A 229		
306 590	Brochart M 3020	Buchholz H 2040	7028	840		
Boyd R S 5785	Brock A A 5201	2461	Butterfield H M 6548	Campovasco J 14		
Boyd W M 1075	Brock R D 307	Buchinger R 6589	Buttner E E 3748	Campredon J 2743		
Boyer W P 2094	Brock S L 4837	Buchwald N F 13	Butts H A 6401	Camus G 596-7		
Boyko H 469	Brockie W B 1329	Buck C W 2071	Buxton P A 4551	Canada Bur of Statis		
Boyle F P 769	Brockman C F 86	Buck J B 4475	4839	Census of Indus		
Boynton W H 4149	Brodell A P 4894	Buckingham R D 3590	Buzacott J H 4476	2560-1		
Bradt C G 3208	Brodie H J 486	Buckley J L 6131	Buzi C C 6305	Forest Prod Statis		
Brady D E 6258	Brodley M J 1331	Buckley M S 4208	771	2560-1		
Brady D S 5278	Bromley S W 4206	Buckner G D 3745	Buzulin G S 771	Gen Manufac-		
Brahs C 3864	Bronsart H von 2070	Budaker G 1129	Byerly T C 3867	turing Statis 5789		
Brain S G 921	Bronson T E 4659	Buddle M B 3209	Byers C A 2287	Canada Dept Agr 1064		
Brames-Hall C 6868	Brook T 5308	Budennyi S M 3479	Byers S O 3385	1076		
Bramstedt F 4650	Brooklyn Bot Gard 12	Bueno P 2891	Byrne J J 2543	Canada Dept of Agr		
Brand R W 5258	Brooks M 1332	Buescher R R 2095	Bysshe G 1131	Reclam Sta 2099		
Brandt H 4738	Brooks H J 3021	Buffett E M 1335	Bywater H E 7402	Canada Sci Serv Div		
Braanan C F 6742	Brooks O L 2825	Buffière 6303	Cabanas Traserra J 5426	of Bot and Plant		
Branson H 3744	Brooks W W 5188	Buice G D 2825	6873	Path 230		
Brant D O 7408	Brossard D 6069	Bulard C 592	5427	Canadian Pulp and		
Brasca M F 616	Brossier J 2358	Bulgaria Direction	Caddow H A 5427	Paper Assoc 2694		
Brask A 7027	Brown A W A 4739	Générale de la	Cadillat R 5936	Canadian Sheep Breeders'		
Bratten A W 2558	Brown B 3022	Statistique 7323	Cadney R G 1338	Assoc 4024		
Bratton R W 3118	Brown B A 1333	Bulger J W 4209	Cady W H 5787	Canadian Shorthorn Assoc		
Brauer F 2454	3432	Bullen J 6496	Cahill J C 5145	3026		
Braun E 1076	4384	Bullock A A 107	Cairaschi E A 4743	Canadian Soc of		
4384	770	Bunce E W 3025	5428	Forest Engin 2744		
Braun H 770		Bundesanst f	242	Cancellara E 5189		
		Pflanzenschutz		Canfield R E 2695		
		420		Canizares Zayas J 15		
		Bundy J L 6870		Cañizo Gómez J del		
				4478		
				Cannari G 4214		



	Item		Item		Item		Item		Item
Cannor A B	4414	Castillo J del	3380	Chang H Y	2696	Christopherson R		Collin J E	4181
Cannon R M	1049	Castineiras Garcia		Chang M C	3999	6220		Collings G H	1819
Cannon W Y	6706	J M	2380	Chang N F	2270	Chu S M	1891	Collins D L	4428
Cano A E	2827	Castle C V	3295	Chang S C	6531	Chun C K	542	Collins H L	5750
3154 4131		Castle M E	5624	Chao L F	5202	Chun F	119	Collins J E	5000
Cantarow A	3378	5669		Chao L Y	5792	Chung C M	6876	Collins J H	2897
Cantlie Sir K	4784	Castle O M	3139	Chao P C	6591	Chwatt L J	4555	5938	
Capinpin R I	1706	3279		Chaparro González A		4615		Collins J L	1178
Capucci C	1132	Castle R B	1934	7137				Collins W F	5671
Caputo J R	4132	Castor J G B	5429	Chaplaev S K	1291	Cier J F	3402	Collisson C F	6623
Caraway A H	3294	Castorina S	599	Chaplicki N L	6393	Cioffi R M	2831	Colman E A	1892
Carballo Pou M	4415	Castro A F de	1818	Chaplin M M	233	Cirauza C	604	Colman J H	6268
Cardoso F M	7029	Castro J B de	1624	Chapman A G	2477	Cirino V O	5831	Colombia Contra-	
Carizza R A	5668	Castro Biedma P		Chapman B B	7006	Claiborne Parish La		loria General	7324
Carles R	4897	3670		Chapman C J	2271	Planning Bd	6564	Colo Agr and Mech	
Carliner L A	5500	Catala R	4479-80	Chapman K H	4810	Clancy C F	3749	Col	3032
5623		4809		Chapman P	6875	Clancy D W	4216	Colorado Iris R	4619
Carlson A B	7135	Catalina L	18	Chapman P J	4202	Clarenburg A	3213	Columbus A	2856
Carlson F W	4692	7250		Chapman P W	6006	Clarens L	4097	Comar C L	606
Carlson M C	16	Catani R A	2245	Chapman R A	311	Clark C	7139	2898	
Carlson R B	4259	Catcheside D G	600	Chappell W E	1080	Clark E L	4303	Combredet G	6070
Carmen Núñez M del		Catchpole N	1133	Charitat	3212	Clark G	7079	Combs L R	2181
3379		Cation D	298	Charkey L W	7410	Clark K G	674	Commercial Solvents	
Carmichael J	4553	Catron D	4134	Charles G	1235	Clark M	2180	Corp	2246
Carne H R	2893	4144		Charnot	4066	6263		Commings F	7141
Carnegie Inst Wash		Cattoir L	6563	Charon A J	4554	Clark P G	3465	Common R H	3752
120		Cattorini P E	1759-60	Charton A	6219	Clark P J	1762	Compton L E	346
Carnevale J A	1290	Caughey R	1342	Chase C D	2442	Clark R R	1240	Compton L L	6475
Carolan R	1843	Cavalcanti O de H		Chatenois M	7030	Clark T B	3671	Compton W	7443
Carolin V M	4753	2101		Chater D W	6007	Clark W	3269	Comrie A	5767
Carolis V de	3555	Cavina R	2072	Chatfield H W	6307	Clarke R T	3030	Comstock J A	4749
Caroselli N E	231	2830 7550		Chatterjee D	87	Claude	1764-5	Condit I J	1179
Carpenter C D	6392	Cawkwell M S	2381	114		Claus E P	19	Confederazione	
Carpenter D	6157	Cawsey E W	6498	Chatterji N G	6328	Clausager A	7088	General dell'In-	
Carpenter S J	4614	Cayeux L	1343	Chaupe P	2318	Clausen J	120-1	dustria Italiana	6751
Carpentier A	17	Cayssials A A	4096	Chavance R	2684	Claverie P A	4747	Conference on the Use	
Carr C B	5887	Cecil I A	6052	Chavez V A	844	Clayson D H F	5360	of Radioactive Iso-	
Carrante V	1177	Cecil S R	6051	1021		6007		topes in Agr Res	7533
Carré G	1205	Cederquist D C	7391	Chawner L C	3869	Clayton C	7364	Congrès National des	
4744 7461		Cederström A	2405	Cheers H W	5501			Cercles de Jeunes	7142
Carrell Mrs E	1340	Cedro V C F	4065	Cheesman E E	115	Clemares Miralles		E	
Carreras G J	1933	Cerighelli R	846	Chegut	6592	Clément P	2832	Congresso Nazionale	
Carrick C W	3682-4	6306		Chen C C	4463	Clément P	4180	per l'Economia	
3714		Cermak F	2316	Chen C J	3574	Clements L B	1992	Serica	4827
Carrier L	2100	Cerutti V	310	Chen S D	7411	Clements R C	5502	Conklin H E	6707
Carrion y Carrion P		Ceylon Coconut Res		Chenavier P	4079	Clements R W	2685	Conn Milk Admin	
		Scheme 1761		Chenery E M	775	Clemmesen J	4000	5739	
Carroll L P	6745	Chabrot C	3211	Cheng K L	1829	Cler G O	2894	Connors I L	230
Carruth L A	4745	Chaddock T T	3451	Cheng P Y	2117	Cline L E	3750	Connors C H	2471
Carson C M	1341	Chakravarti D	773	Cheng S C	2988	Clinton F M	2102	Conover R A	313
Carter G R	3510	Chakravarti K K	774	Cheo T Y	116	Clizer N R	3870	428	
Carter J	3027	Chakravarti R	2476	Chernenko S F	1206	6960		Conquest V A	6158
Carter J F M	3464	Chakravarty H L	487	Cherniak V Z	3511	Clodfelter G I	3031	Conrad R M	6418
Carter R M	2632	Chamberlain D W		Cherrington J O	4982	Close T	2833	Conradi R	1347
Carter W	2226	194		4999		3445-6		Conservative and	
Cartwright G E	4133	Chamberlain E E	1762	Cherry C	2562	Cloudsley-Thompson		Unionist Party	
Carvajaniño J L J		Chamberlain G C		Chester K S	312	J L	4417	Organ	6752
2288		454		Chevalier A	117-18	Clyde D E	1937	Considine D M	5298
Carvalho A	1758	Chamberlain H de O		472 601 1763		Coates G	7031	Contenson de	3033
Carver J S	3669	6874		Chevalier C	1344-5	Cobbett N G	4418	Contesse Bachelet M	
3695 3808 3894		Chamberlayne E C		Chevigny Jean de	3480	3034		Conti G	847
Casanova J M	6497	5236		Chiao C M	7138	Cochel W A	3296	Contrain P	4025
Casa Pacheco		Chamberlin T R	4652	Chiao Y S	6748	Cochico R J	1748	Conway H M	6159
Marqués de	232	Chamberlin V D	3908	Chickering A M	4416	Cockayne E A	4748	6264	
2828 3556 6746		Chambers E E	3029	Chidamian C	1346	Cockburn W F	790	Cocil B J	776-7
Casares V R	3028	Chambers H M	948	Chidester G H	2707	Cockings K L	4419	Cook C	3297
Case H C M	5321	Chambers V H	4702	Child R	5926	Coffee W M	2895	Cook C W	4056
Case J D	3210	Chamblin W Jr	6747	Childers L E	1935	Coffey J S	4124	Cook E J	3466
Case L I	2829	Chaminade R	5888	4898-900		Coffin D L	2896	Cook Mrs F	3977
Casey R S	5791	Champigny	7293	Chile Ministerio de		Cohen C	605	Cook F T	6753
Cashmore W H	4981	Champion H G	2317	Agricultura	541	Coisier B	6750	Cook G A	5279
Casida L E	4070	Champion L R	3788	Chilean Nitrate Educ		Colto A de M	3374	Cook G C	7143
Caspari E	540	Champion R H	4840	Bur	1936	3381		Cook H L	1939
4746		Chan A P	62	China Ministry of		Colberg W J	270	6974	
Casseres E H	1623	Chan S Y	879	Agr and Forestry		Colby B E	3155	Cook L	1348-9
7136		1625 1648		6749		Cole C A	1081	Cook L L	6615
Cassitto R V	7409	Chandler J	5889	Chinoy J J	602	Cole D S	2563	Cook M L	1350
Cassou R	3084	Chandler R F Jr	1079	Chopra I C	1750	Coleman R	1938	Cook O M	6221
Castafieda V E	7249	Chandler W A	339	Chouard P	603	Coles J D W A	3751	Cooke D E	7144
Castanie H	4215	Chandley Mrs J F		Christensen J	845	3871		Cooley J S	607
5592		3364		Christensen R P	5203	Colin F	4217	Coombes A I	6357
Castelló Carreras S		Chaney C M	5890			Coll H A	4607	Coombs E	2261
3868		5937				Collier H O J	20	Coon N	1351
						Collier J Jr	7140	Cooper A W	6071
						Collier M	7140		



Item	Item	Item	Item	Item	Item
Cooper D J 4996	Crawford A B 4068	Daalen C K van 849	Dawson E Y 123	Desalbres J 1941	
Cooper E 1352-4	Creighton H 6394	Dahl H K 6975	Dawson H A 7148	Desch H E 2630	
Cooper H P 1844	Creighton J W 2587	Dahlberg A 3321	Dawson L E 6398		
Cooper H P Jr 6637	Crepin P 4068	Dahlberg A C 5625	Dawson O L 6755	Desflassieux A 1244	
Cooper K W 4556	4098 5553 7413	5670 5689	Dawson R B 1374	Deshusses J 5433	
Cooper R J 3035	Cressman A W 4676	Dahle C D 5671-2	Dawson R F 779	Desmarais S 6312	
Cooper R S 4841	Crestin 2544	Dahms R G 4653	Dawson S R 3312	Desoutter 3513	
Cooper T H 3298	Crewe W 4623	Dail H M 2180	Dax R 4621	Desrue 4222	
Cope J A 2478	Criddle W D 2138	Daily F K 184	Day D I 5751	Detwiler S R 7441	
Cope T 5068	Critopoulos P D 319	Dakers J S 1367-8	Day G E 3040-1	Devadatta S C 7414	
Copenhagen Univ 21	Crivellari D 2479	1628	Day M W 2482-3	Devantoy J 4484	
Copley G H 1355-7	Croasdale H 186	Dallimore W 22	Dean G W 2361	Devault S H 6727	
2289	Croce F M 1180	124	Dean H A 4849	7087	
Corbett W 1626	1207 6008	Dalmasso G 1242	Dean M 725	Deveau B W 7149	
Corbett W C 1358	Crocker E C 5431	5927	Dean R W 4483	De Worms C G M 4752	
Cordeau P 1627	Crocker R L 6955	Dalton F H 2227	Dean W A 5593	De Young Mrs W 4027-8	
Corliss J M 4750	Crockett S L 6690	Damkas C 4621	Dearstyne R S 3597		
Corner H H 4067	Croizat L 488	Dangeard P 185		Deys W B 613	
Corning V 6269	Croll R D 1063	Daniel H A 807	Deay H O 4654	6376	
Cornish K S 2462	Crookshank A C 7145	Daniell F 4866	Deblois P 1375	Dhawan C L 1966	
Cornu C 4218	Crosby J 848	Daniels T L 6310	Debuissou J 1376	Dhennequin 4223	
Corran J W 5361	920 4983 5973	Danielson C B 1709	De Burca B 4617-18	Diakonoff A 4182	
Correia F A 682	6395	Dankers W H 6396	De Caires P F 4635	Dias J A T S 4421	
931	Cros Sarriá M 4557	Dann A C 5322	Decencièrre-Ferrandi-ère H 2320	Diaz E 126	
Corrigan K E 702	Crow J F 543	Dannecker 2480	Deering F 6878	Diaz Nájera A 4559	
Cortin B 196	Crowcroft P W 4842	Dansereau P 23	Defrance J A 1710	Diaz Viel C 1893	
Cory E N 4481	Crowder L V 999	D'Aquin E L 6321	DeFrance P 3366	Dick G W A 4624	
Cosline H L 4901	Crowe G B 1709	6468	De Graaff J 1377	Dick I D 7552	
Cosmo I 1241	Crowell H H 4265	Darbshire O B 5915	Degrully P 1243	Dick J B 921	
Costa A S 314	Croxtion-Smith A 3365	D'Arcy T M W 4616	De Jong A W K 780	Dick W F 6879	
4219	Cruess W V 5432	Darlington C D 1030	De Kock J M 4560	Dickey J B R 7483	
Costa C de A 6565	Cruikshank J W 2407	Darlow A E 3039	Delacour F 4099	Dickey R D 614	
Costa D 7365	Crumb S E Jr 4265	Darrah L B 6245	Delamare Deboutteville C 4420	Dickhut A C 6164	
Costa W F da 122	4558	Darrow M I 3595	De La Mothe G A 2290	Dickie J W 6222	
Costa Rica Dirección General de Estadística 5400	Cruz R E 6593	Darrow M M 6215	Oelaplane J P 3785	Dickinson D 5914	
Costaz M 6072	Cruz Ramirez C 7146	Das N K 5793	Del State Grange Patrons of Husbandry 7252	Dickinson E M 3758	
Coste A C delle 429	Cruz Riascos L C 2247	Das S 6140	Delay P D 3756-7	Dickinson Mrs J S 1378	
Costello D P 7441	Cuadrado Lopez B 1893	Dassat P 4926	Dell A 5503	Dickman P 5282	
Cotta A 1940	Cuba Ministerio de Agricultura Negociado de Asuntos Azucareros 6499	Dastur R H 610	Dell'angelo G 6311	Dieben C P A 2797	
Cotton R T 6073	Cuenca C L de 3036	Date A 6259	Delobel R 7032	Dieckman C H 3598	
Cotton W P 5604	Cuenca L 6074	Daubney R 3754	Delong D M 4651	Diego A I de 2900	
Couch J R 3753	Cuevas Garcia E 3557	Daughenbaugh C M 1369	4655	Diegues Junior M 7325	
Couch R de S 5309	Cuillé J 4482	Daul G C 5850	Deloye M 6075	Dieguev C J 318	
Couch V M 6161-2	Cullity M 950 3037	Daulatram S J 6754	Delta Council 6566	Diehl R 1942	
3594 3978	Cullom W F 5310	Dauphin J 4984	7534	Diehnelt W 4387	
4010-11	Culpepper D 1360	Davatchi A 4811	Delupis S D 544	Dieterich V 2322	
Coulon J P 2319	Culpin C 4973	Davey K L 1370	Delval G A 4386	Dietrich I W 3572	
Couranjou A 2073	Cumming R 1361	Davidson F A 6500	Dembinski J 5752	Digby M 7253	
Couraut J 4468	Cummings M B 1362	Davidson J A 6401	Je Mers C D 2697	Dijk J W van 2104	
Courtils A des 6163	Cummings N 5204	Davidson R S 413	Deming W E 7551	Dijkstra D 85	
Courtney B 949	Cummings R I 3432	Davies A W 778	Demmon E L 2321	Dill H H 1769	
Coutinho A R 1766	Cummings R W 2274	Davies B 1371	Denamur P 850	Dilworth J R 24	
Coutts J 1359	Cunha J F da 7123	Davies W 473	Denbridge C R 5795	Dimitri M J 1379	
Cowan J C 6308	3157	89	Dennington E M 3747	Dimock A W 323	
6364	Cunha L A da 951	Davies W C 4902	Denmark Statens Forsøgsvirksomhed i Plantekultur 320	Dingwall A R 6880	
Cowan W A 3299	Cunningham D 4751	Davies W W 125	Denmark Statens Planteopatologiske Forsøg 234	Dinner R 5055	
Cowley H 806	Cunningham G 2182-3	Davis A 952-3	Denmark Statsfrøkon-trollen 6476	Dionne L A 4657	
Cox B F 3783	3156	Davis A G 6976	Denning D G 4656	Dionne R 1629	
Cox C E 315-16	Cunningham I J 2899	Davis C 2481	Dennis R W G 197	Disque N 2901	
Cox G W 5181	Cunningham W A 2796	Davis D 6397	321	Divatia V V 7033	
Cox H A 2406	Cuozzo R F 3979	Davis E C 2103	Denniston J V 5123	Divesta F J 7169	
Cox H E 5362	Currie C W 1363	Davis E H 2545	Denny F E 611	Dixon F J 3759	
Cox H R 3749	Currie J R 3038	Davis E M 3673	De N N 3755	Djaenoedin R 3530-2	
3810	Curtis A E 1364	Davis F E 5794	Deome K B 3757		
Cox W R 6270	Curtis C H 1365	Davis G T 3596	Deonier M T 840	Dmitriev A M 954	
Craddock C G Jr 4001	Curtis J D 1767	Davis J E 4220	Depanian M 4621	Dobignies J 2798	
Crafts A S 1707-8	Curtis W M 88	Davis J G 5673	Deputy O D 4221	Dobrazanski B 1845	
Craig R Jr 2594	Custer S A 2360	Davis J I 6638	Dermen H 490	Dobrunov L G 615	
Craig R T 123	Cutak L 1366	Davis L G 4237	De Ropp R S 612	Dobson S H 1027	
Craig J E 3382	Cuthbert W J 3872	Davis L M 5281	Derry R L 5796	Docker T M 3215	
Cramer M 608	Cuvillier J 7089	Davis R 1372-3	Derterano Urrutia C 6756	Dodd H 6639	
694	Cuvillier-Lanche 7251	Davis R B Jr 5001	Derx H G 322	Dodge D A 1846	
Crampton E W 493	Cypert E 1768	Davis R W 3512		Dodge H R 4436	
Crandall B S 317-18	Cyprus Dept of Agr 7444	Davis T Jr 3214		Dodi R 5797	
Crane H L 609	Cyssau R 6309	Davis T A 489		Doermann M C 5380	
Crang A 7412	Czajkowski J M 7366	Dawber M A 7147		Doetsch J F 2272	
Cravens W W 3672		Dawson E R 5357		Doetsch R N 5557	
3753					



Item	Item	Item	Item	Item	Item
Dolezal K 2408	Drew B W 1134	Eaton E M 1387	Embleton H 6977	Every R W 4578	
Doll E R 3514-15	Drew F W 5891	Eaton R 4861	Embree W D Jr 6693	Evison J R B 1396	
Domanski E 3216	Drieux H 2902	Eaton R C 3604	Embry L B 4060	Evrard 2464	
Domansky F 3516	Driftmier R H 5190	Ebbell 3675	Emerson A W 2185	Ewan J 180	
Domar L M 3873	Driscoll R 6009	Ebbell H 3955	Emerson G H 7151	Ewing J A 4894	
Domato J 1711	Drishna S 783	Ebbs J C 5283	Emerson K C 4846-7	Ewing K P 4783	
Domingues O 3042	Driver P N 6881	Eccles W 3046	Emerson R 3677	Exline H 4422	
3217 3300 4029	Drosdoff M 1864	Echegaray M de 6077	Emigholz Mrs J F 1392	Eyme J 782	
4125	Drost P J 2463	Echeverria I 2383	Emilsson B 326	Eysinga N P H J R van 1082 2486	
Dominguez P 2362	Drummond C E Jr 1384	Eckell O A 3519	Emmel M W 3875	Eyster W H 26	
Dominguez Garcia M 7007	Drummond Sir J 7415	Eckerbom N 2746	Emmens C W 4002	1397 5117	
Dominica Dept of Agr 7445	Drummond W C 236	Eckert J E 4334-5	Emmerich H 2534	Ezcurra R 2949	
Dominicis A de 1894	Drummond-Goncalves R 414	Eckmüller O 956	Emmerson D W 2364		
Dom L V 3760	Dryden H 6399	Ecuador Ministerio de Economia 6757	Emrick W E 3307	Fabiani L 1246	
Domsch M 2291	Dschunkowsky E 431	Eddins A H 238	Ems C 3636	Fabris A 2835	
Doná Dalle Rose A 808	Duarte F E 4183	Eddy G W 4567	6400	Fachini G 2991	
Donald D E 3517	Duarte R R 2101	Edel'shtein V I 1630	Ene de Piro M 1393	Fagan H L 7153	
Doncaster J P 430	Dubois D J 7150	Edelstein S M 5800	Enev I 2324	Fahringer F 4906	
Donigiewicz K 3518	Dubois G 25	Eden W G 4225	Enge G 852	Fair E W 5607	
Donisthorpe H 4703	Du Breuil A 1385	Edgar S A 3765	Engel L 2186	Fairbanks D W 5626	
Donk M A 198	Duck R W 3158	Edgington E 1733	Engelhard F 5435	Fairchild G B 4561	
Donker-Voet J 4150	Ducoff L J 7073	Edlin H L 2409	Engelhard J 3481	Faithful W 6882	
Dons H 2484	Dudgeon J A 3573	Edminister F C 4867	5037 5172	Falk P E 2642	
Dooley J J 6293	Dudley F J 3599	Edmonson T W 2074	Engene S A 6709	Fanal 5554	
Dopf K 2989	Dudley J E Jr 4659	Edmonds C C 7257	Enikeev Kh K 1209-10	Fang W P 130	
Dorado J T A 7008	Duer R 3044	Edmondson T 3601	Enkart V 1394	Fankhauser G 7441	
Doran L S 6165	Duerr W A 2323	Edmunds G F Jr 4845	Enkvist T 2686-7	Fankhauser R 3384	
Dorfman A 6567	Duff I F 7394	Edrington M P 6502	Epstein S 3512	Fantacci L 2305	
Dorfman R I 3761	Duffaut A 6010	Edwards C H 6532	Erb J H 5675	Fantechi V 2107	
Dorman M A 6640	Dufrénoy J 618	Edwards C L 3558	Erb R E 3048	Faraco D 7259	
Dormann 6641	Dugelay A 2382	Edwards E E 4388	Erber M 3803-4	Farish L R 840	
Dormer K J 491	Duggan I W 7254-6	Edwards J T 4553	Erhart H 1896	Farley M E 5892	
Doroshchenkov G 3301	Duggan R E 6549	Edwards P R 3509	Erickson A E 2904	Farm Found 7154	
Doroshko I N 3762	Dulin A 6642	Edwards P W 5928	Ericson F L 6978	Farmer G R 5137	
Dorosko J N 3763	Dulin C 6594	Edwardson J 3559	Eriksen S 3308	Farneck J 3876	
Dorph-Petersen K 809	Dullum N 1208	Edwardsson G 3306	Eriksson K 2990	Farnham R B 2471	
2293	Dumont J 4224	Efferson J N 851	Eriksson S 2817	Farr H 6315	
Dorset Horn Sheep Breeders' Assoc 4030	Duncan D J 5290	Egli R 4408	Ernst A J 6060	Farrington R L 7260	
Dort H W V 1380	Duncan J E 5069	Egorov I A 4226	Erroll F J 6012	Fassett N C 27	
Dossin C O 4961	Duncan M 3304	Egypt Min of Agr 5801	Erskine D 129	Fath A 4908	
Dotti F 616	Duncan W H 179	Eheart J F 7416	Ervin R F 3709	Fat'kin N F 3219	
Doty M S 186	Dungan G H 906	Eheart M S 5364	Erwin R L 5365	Faure J C A 6316	
Doughtie R T Jr 6313	Dunkley H L 127	7417	Esau K 495	Favard P 2228	
Douglas J R 3302	Dunlap G L 3383	Ehnrot B 6708	Escalante M J M 6758	4812	
Douglass D W 7446	Dunlap W H 5974	Ehrensberger R 619	Escauriza R de 5072	Fawcett H S 240-2	
Doulat E 492	Dunn H A 128	Eide C J 352	Esch J A H 1631	432	
Doumont L 235	Dunn P M 2641	Eifert V S 1388	Esche E 5605	Fay A de 4031	
Dove W F 5434	Dupré Cenicerros E 2363	Eire Minister for Agr 7447	Esfandiari E 239	Federacion Venezolana de Camaras y Asociaciones de Comercio y Producción 5038	
Dovecea J M 5798	Duquenne G 5799	Ekstrand H 324	Esgate E E 2547	Fed Reserve Bank of Kansas City 5324	
Dowden P B 4753	Duraiswami S 781	Elam F L 5070	Eskeland A 7258	Fehér D 620	
Dowdeswell W H 4757	Durand G 7367	Elder C R 5071	Eskew R K 5928	Feldman G J 5803	
Dowler A J 3043	Durme M van 4904	Elder R 5802	7549	Feldman-Muehsam B 4405 4423	
Downes J A 4754-5	Dusche H 3305	Eley C P 3676	Esmond C W 5657	Felföldy L 474	
Downs P A 5656	Dusenberry H L 2105	El-Helaly A F 325	Espino R B 700	Felice P de 7034-5	
Downs W G 4619	Du Toit R 2184	Elisiewicz R 3520	Espinosa C 7152	Fellers C A 5436	
Dowson W M 5998-9	4560	Ellenbee 2747	Espinosa Poveda A 4868	Feltwell R 3678	
Doyle W L 3764	Dutt N L 494	Elliot C 1389	Essary E O 3677	Fendel J 6883	
Drage C M 1381	Dutt R H 4070	Elliot D 1390	Essick H C 4848	Feng H T 4227	
Draghetti A 955	Dutton H J 6314	Elliot F I 3047	Essipoff M A 5366	Fennah R G 4228	
1876 1903	6364	Elliot F J 3517	Estrees A M D 4485	Fennell D I 209	
Drake C J 4658	Duvall T C 2646	Elliot J T 1050-1	Etter F 545	Fennell J L 4486	
Drake H 1895	Dyer B W & Co 6501	Elliot K J 7411	Evang K 7484	Fenollera Velon J 2108	
Drake J M Jr 1712	Dykstra W W 237	Elliot N R 1943	Evans H E 4705	Fenska R R 2075	
Drapala W J 493	Eagan H E 5504	Ellis C F 6011	Evans H J 3767	Fenton H J 7155	
Draper C I 3674	Eagle M R 3045	Ellis F E 2485	Evans J T R 3218	Fenton S W 791	
Draves C Z 5800	Eames A J 534	Ellis J 1391	Evans L B 5620	Ferguson C M 6402	
Drawert H 617	Earle K V 4660	Ellison W 3602	Evans O R 1061	Ferguson D V 1136	
Drayson G F 1382-3	Earle T T 704	957	Evans R A 778	Ferguson E J 5506	
Drees H 4903	Earp U F 5363	2903	Evans R J 6401	5676	
5026	Eastburn E Jr 3447	Elvehjem C A 7426	Evans W C 778	Ferguson J 2837	
Dreesen W H 6578	Easterbrook L F 2834		Evaporated Milk Assoc Chicago 5606	Ferguson R R 2698	
Dreisbach R R 4704			Everett R 5505	Ferguson W S 5234	
			Everett T H 1395	Fernald M L 28	
				131-3	



Item		Item		Item		Item	
Fernandes O E Z	3570	Fogg G E	187	French H W	6224-5	Gane L C	2727
Fernández M A	2992	Foley W T	4126	French J N	7263	Ganter-Gilmans H P	5206
Fernandez O	566	4162		Freund J	2908	Garayar H N	1772
5237		Folkers K	4286	Frezal	4760	Garber K	1773
Fernandez Roseñada M	327	Folks J	4163	Frick H	3448	Garbutt R J	3387
327		Foley W T	3768	Friedell H L	3396	Garcia P R	3882
Ferneyhough F	6403	Fondard L	853	Friedlaender H	3483	García de Paredes A B	3881
Ferrall P	1944	Fonseca F de	4424	Friedman M	3385	2249	
Ferrand R H Jr	3603	Fontanaud	1247	Friedman P	3386	Garcia Guizarro L	2249
Ferrando R	4079	Fontanille H	7090	Friedrich W	32	Garcia Isidro M	7036
Ferrante A	6503	Food and Agr Organ		Friedrich-Frekxa H	4826	Garcfa Rada G	329
Ferrar M L	4756	of the United Nations		4826		Garcia Serrano E	6852
Ferreira F S da C	4562	6760		Friedriger	1402	Gardiner C	6888
Ferreira Filho J C	922	Forbes A P S	1062	Friend W Z	6320	Gardner B	1949
Ferrin E F	4142	Ford E B	4757	Frierson R E	4869	Gardner C A	1714-15
Fersing B	2487	Ford J	2432	Fries N	626	Gardner F W	4762
Ferwerda F P	1770	Ford Mrs W K	1084	Friese-Fickenscher L	5369	Gardner J L	1834
Fessler J H	5437	Foreman E M	3719	5369		Gardner L C	4337
Few F G	5004	Foreman M	3560	Frings H	4230	Gardner M	2110
5191 5677		Forshaw H W	4618	Frisselle P	5985	Gardner P A	4032
Fey H	3521	Forster R R	4425	Fritz J C	3679	Gardner P H B	30
Ffrench-Mullen M D		Förster T	624	3708		Gardner R C B	30
1945		Forté P N	4854	Frommann H	4231	Gardner V R	1211
Fickert	2748	Fortier R	7262	Fronza F M	3878-9	Gardner W H	2191
Fidler C E	2905	Fortin B	7032	Front S J	2535	Garland F W Jr	3774
Fielitz Landivar F O		Foster G M	5284	Frost S W	4661	Garland H	2728
2906		Foster H	5507	Fruhstorfer A	1947	Garner F T	3468
Fife R R	5311	Foster R	5105	Fruin E G	6980	Garner H V	1950
Fifer R	6317	Foster R L	7535	Fuchs H	1403-4	Garnett K J	3388
Fileni E	2326	Foster W R	328	Fuelleman R F	958-60	Garofalo F	303
6884		Foster Z C	2187	1713		Garola J	1951
Filion L	7261	Fostier	2488	Fuentes Irurozqui M		Garon L P	6766
Filippov D I	1793	Fouassier M	5627	6764		Garrad G H	3309
Filmer R S	4565	Fouregeaud J	810	Fuentes Novella A		Garrard E H	3775
Filuk B	4713	Fourie F C van N	7117	243		Garrett E	7120
Finch F H	3049	Fournier P	1771	Fugoso V	5205	Garrigues Diaz	
Finch H	6318	Foust W L	5508	Fujiwara A	2248	Canabate J L	6595
Findahl N T	3050	Fox C J	4488	Fuller H J	638	Garrison C S	330
Fine S D	5238	Fox C P	3877	Fuller J L	3423	855 4565	
Fink H	621	Fox F W	2188	Fulton D P	3880	Gärtnerische Versuchs-	
Finland M	3815	Fox I	4426	Funderburk C B	6645	anstalt zu Friesdorf	
Finnegan W J	5367	Fox R M	4758	Funk E M	3770	1085	
Finnell H E	6477	Fox W B	4466	Fuqua O C	7094	Garzón B	2993
Finzi E	5368	4489		Fur Trade Jour of		Gascon Pelegri V	856
6319		Foy H	4621	Canada	6166	Gaska A	3523
Fisch R	4909	Fraile A	29	Furman D P	4575	Gassmann Z	5299
Fischer E E	1398	France Direction de		Furon R	2189	Gassner F X	3732
Fischer J E	7418	la Documentation		Fussell G E	6765	3776	
Fischer K H	4910	6761-2 7118		Fusslein E R	2190	Gast Galvis E	6596
Fish S	4911	France Direction de la		Fyg W	4336	Gastellu C	6272
Fisher E H	4317	Production Agricole		Fyrileiv E	2838	Gastrock E A	6321
4563		1292		2875		6368 7549	
Fisher F	5804	France Ministère de		Gabby J L	1031	Gatson H P	5106
Fisher K J	4184	l'Agriculture	3482	Gäbler H	4761	Gattesfosse R M	1774
Fisher R A	546	France-Bois	2749	Gadd G O	2699	Gauch H G	751
Fisher R K	5438	Francis D R	6885	Gadd I	854	Gaud J	4427
Fisher WS	4487	Francis F	3051	Gaddy V L	580	Gaudin O	642
Fisk A A	7116	Francis J G	6044	Gadgil D R	2109	3392	
Fisk H K	6643-4	Francis J H	3467	Gaertner R A	3771-2	Gaudino M	3389
Fitzroy V M	1399	Franco A	1820	Gahan J B	4619	Gaudrón J	244
Fjäderhane A M	1083	Franco L B	4635	Gaines F P	1904	Gauhe A	4506
Flaccomio E	923	Frandsen K J	547	Gaines J C	4232	Gault	2328
Flanagan T G	7368	Frankena J H	1946	4849		Gaumnitz E W	5509
Flatla J L	4963	Frankenberg G V		Gaines J P	6886	Gausson	31
Flawn L N	1400	4185		Gaines R C	4490	Gaustad M	3053
Fleischer H O	2725	Franklin A L	3769	Galesloot T E	5556	Gautheret R J	596-7
Fleming A J	6550	Franklin H J	1248	Galibert A	1250	627-9	
Flemion F	622-3	Fransen J J	4229	1847		Gay C W	3054-5
Fletcher J L	4135	Frantz P D	5939	Galindo A	4100	Gay H	4573
Fletcher S W	5104	Frantz W	7119	Gallarate G	5192	Gay S B	6167
Fleury F	6404-5	Fraser A	4912	Gallay R	1251	Gaylord D C	6131
Floch H	4564	Fraser D E	6406	Gallet T	1405	Gaylord R	6078
Floore F B	7369	Frazier N W	4759	Galletti A C	1948	Gear A F	5678
Florenzano G	215	Frear D E H	5555	Gallizio F O	5439	Geddes H J	3159
531		Frederickson F T		Gallwitz K	5027	Gee J C de	1848
Flores E F	7429	2718		Galpin N	5805	Geete E	2548
Flournoy Mrs R	1401	Frederiksen A M	3052	Galton L	3773	Geiger J E	4389
Flower E P	3522	Freed B	6504	Galvin S L	5440	Geiser M G	1406
Flückiger G	2907	Freeland R O	625	Gammon E T	7502	Gemmell J T	2111
Flynn L M	5239	Freeman J F	2050	Ganahl M	6887	Gen Elect Co	
		Frei H	6763			Farm Indus Div	5005
		Frémin M	2726				
		French A P	1249				
		French C S	749				



	Item		Item		Item		Item		Item
Glembot'ski' IA L	6891	Gori C	2112	Green J A	3629	Gupta A C	6328	Hamel K E	5649
Glen R	4466	Gori D	1413	Green J M	858-9	Gupta P S	860-1	Hamence J H	1850
Glucksmann E J	5624	Gornall W B	7327	Green J W	4493-4	Gupta U N S	1849	Hamilton A B	6727
5669		Gorny C J	6082	Green M	638	Gupta Y C	6982	Hamilton C C	4706
Glushchenko I E	633	Gorrie R H	4436	Green River Project		Gurcay R	3692	Hamilton C H	6853
Goble C	7370	Gorrie R M	2433	Work Com	4764	Gurgel J T A	515	7164	
Goddard J H	1408-11	Gorshkov I S	1138	Greenberg J	3784	Gurney A B	4852	Hamilton C L	4871
Goddard M J	4763	Gorshkova T A	1213	Greene L	247	Gusev A A	3511	Hamilton C M	3786
Godfrey A G	3639	Gorter G J M A	335	Greenshields E L	2113	Gusler G	4055	3796	
Godfrey G F	3779	Goss O	388	Greenway P J	1182	Gustafsson N	326	Hamilton D W	4662
Godinho J F	4127	Goss W H	6323	Greenwell G A	1769	Gustafsson R H	6329	Hamilton E M	6339
Godoy J M de	6508	Gostynska-Steffen J	4152	Greenwood D A	4072	Guthrie J D	5831	Hamilton G H	1419
Godwin M R	5956	Gothier F C	3433	Gregory P H	430	Gutiérrez de Miguel J	3313	Hamilton H G	5940
Goedewaagen M A J	634	Gottbehut A H	3469	Greiff F	6893	2193		Hamilton J M	499
Goedkoop W	6551	Gottshall R	336	Greiner F J	5629	Gutierrez Diaz A	2193	Hamilton R	1830
Goemans J A	1412	Gottshall W	336	Gret L J	201	Guy R	639	Hamman E C	3315
Goes J de A	7039	Gouin T	2564	Gremmen J	337	Guyatt R H	1636	Hamman R E	4815
Goetze G	1776	Gould F W	134	Grendahl T	7041	Guyon C	3525	Hammer J M	702
Goettart H	458	Gould I A	5557	Grew R	2273	Gygli K	4340	Hammond A E	5370-2
Goidanich G	334	Gouvernet R	850	Griebel H	1253			6553	
497 635		Gowen A	4913	Grierson-Jackson	6015			Hammond G H	4497
Gokhale V G	784	Goy De L'eperon L		Griffee F	1954			Hampton H E	1920
4622		Grab E G Jr	6013	Griffioen K	2607	Haag-Pfaffenhöfer L	593	Hana K	4766
Gokhale Inst of Polit		Graber L F	736	Griffiths D G	5644	Haagen-Smit A J	6559	Hancox N M	3787
& Econ	2109	802		5682		Haan J H de	2194	Hand C H	2842
Gold Coast Dept of		Grabner C	2413	Griffiths J T Jr	4814	Haas A R C	640	Hand J A	6172
Agr	7448	Grabö P	6981	Griffiths M	2839	Haas P G de	1215	Haney J W	572
Goldsmith E D	4566	Grace N H	6339	Griffiths R L	7161	Haase G	6650	Hanger F	1420
Goldsmith E P	498	Gracia C E	4136	Grimaldi L	1778	Hacker V	2076	Hanglin P J	4012
Goldsworthy M C		Gradov A	811	5442		Hackerott H L	963	Hanke M M	6215
636		Grafflin A L	6324	Grimmond D	4339	Hackleman J C	6478	Hanke W	4914
Golebiowska J	1877	Graham A B	7160	Grimpret	3225	Hackman W	4431	Hanna S	7165
Golubev B	7487	Graham C	4235	Grindley D N	6325	Haddon C B	1958	Hannafor-Shafer N T	3606
Gomes Junior F S		Graham E H	4164	Grissom P H	1955-7	Haddow A J	4624	Hannah H W	6768-9
6171		Graham O H	4567	Griswold T	3061	Haddow W R	2384	Hannah J A	7166
Gomes P	1032	Graham W D	3701	Grocery Manufacturers		2751		Hannan M L	2597
1633 1777 6509		3807		of Amer	5207	Hadfield W V	6894	Hannas R R	3607
Gomez A M	7040	Gralén N	6209	Groenewegen J H	1635	Hadjimarkos D	3163	3889-90	
Gomez P J	5441	6556		Grogan F O	6569	Hadley C H	4496	Hänni H	33
Gomez Ayau E	7009	Grandfield C O	963	Groot H de	2840	Hadley P	924	5244	
Gonçalves R D	245	Grandpré P	6226	6016		1033		Hanower P	5917
4186		Grange C	5075	Grooten R	5325	Hadzi-Antic A	5558	Hansborough L A	3744
Gondé H	7461	Granier Chirveches J		Gros M	6227	Haenseler C M	338	Hansell D E	1421
Gonzalez A de J	962	6552		Groschke A C	3667	Haffert W A Jr	5167	Hansen C E	4962
González Cubillo J		Grant A D	146	3741		Hafstrom G	6691	Hansen F	1959
3524		Grant C	1414	Gross H L	6649	Hagedoorn A L	3887	Hansen H C	5551
Gonzalez de Reguerat		4187		Grosser A	32	Hagen V W von	7489	Hansen H F	1254
F	7159	Grant J	1414	Grosserer-Societetets		Hägglund E	2752	Hansen H P	434
Gonzalez Lima D	1181	2701		Komite	5401	Hagmann L E	4568	Hansen H R	234
González Marín F		Grau C R	3688	Grossman M I	3390	Hagood M J	7073	Hansen J	862
4829		3702		Grove C S Jr	5791	Hahn F	5246	Hansen K	5006
González Miravalles A		Gravel R E	2719-20	Grover P K	3062	Haight P M	3226	Hansen L	1637
7010		Graves A H	2491	Groves D E	4165	Haines A L	2443	Hansen R	5679
Gooch J	3310	Graves G	1415	Gruhzit O M	3401	Haines K A	4237	Hansen R J	1422
Gooch W L	2700	Graves H A	1139	Grumbles L C	3785	Håkansson R	6767	Hansen R S	3891
Good C M	1906	Graves R R	3312	Gruner A	1779	Halbrook E R	3693	Hansen T	1851
Goodell C J	3059	Graw F P	6083	Grüning E	1086	Hale E B	3888	Hansen W J	6407
Goodhart R S	7371	Gray C D S	7488	Gualba C	3886	Hale J D	2703	Hansens E J	4569
Goodman A M	5073-4	Gray H E	6014	Gualdi G	4236	Hale M G	5488	Hansing E D	963
Goodman J B	3687	6084		Guard S R	3161	Hale W J	5269	Hansson A	6228
Goodnight C J	4429	Gray J R	3689	Guay G	2750	Hall A J	964	Hansson A	3323
Goodnight M L	4429	Gray L	7328	Guenther E	6326	5806		Hansteen L G	7421
Goodwin R O	6648	Gray R B	4899	Guérande C	2841	Hall H	1417	Hanten H	248
Googins P H	2543	Grayson E C	1416	3690-1		Hall H W	6895	Harbour H E	4091
Goor A Y	2412	Greaney F J	259	Guerin B C de	5510	Hall I F	6692	Hardenbergh W	6229
Goosen P G	4560	Gt Brit Agr Res		Guerinoni R	6356	Hall L A	5443	Hardesty J O	2265
Gopalakrishnan V R		Council	430	Guernsey F W	2702	Hall T D	641	Hardin L J	1992
Göpfert H	199	Gt Brit Forestry Comm		Guerra Filho D	6327	Halleman A	4765	Hardin L S	3164
Gordon D M	3367	2414 2492		Guhl A M	3604	Hallgren H	3314	6875	
3424		Gt Brit Min of Agr		Guida V O	3391	Halliday O E	2114	Harding A	1423
Gordon G E	3060	and Fisheries	1140	Guilbeau W F	6468	2120		Harding F W	3064
3311		1214 1634 4071		Guilhon J	4430	Halloway H R	1418	Harding T S	7490
Gordon H A	3709	Gt Brit Min of Health		Guimarães L L	4851	Hallvik B	7163	Hardjoesastro R R	1856
Gordon R F	3780-2	5300		Guindal J M	1780	Halnan E T	3694	Hardy D E	4570
Gordon R M	4555	Gt Brit Parliament		Guinet J	4495	Halpern B N	642	Hardy E	34
4623		House of Commons		Guinier P	2455	3392		6330	
Gordon W S	4092	Standing Com on Bills		Guinot H	2595	Halpin J G	3753	Hardy M	7264
Gorenz A M	200	D	7080	Guirard B M	577	Halsey G D Jr	5822	Hargrave H J	3165
Goresline H E	5916	Greaves R E	3783	Gundlach G P	5657	Halsey J E	3063	Hargreaves G	5650
Goret P	2910	Grebäck E	6711	Gunlogson G B	7162	Hamborg G	5807	Harle P	2843
Gorfinkel L	548	Green D E	246	Gunston J	3162				
Gorham J R	3452	637 6324		Gunther H	3605				
		Green J	6892						



Item	Item	Item	Item	Item	Item
Harmer P M 1960	Hebblethwaite C H 2645 2665	Hernández E 4392	Hinderer R F 4669	Holt W 2996	
Harmon W H 2434	Hebden A 4391	Hernández Figueroa J R 6772	Hine H J 5039-40	Holtan H N 1833	
Harms A H 3745	Hebert J 1841	Hernández Roa A 3484	Hinshaw W R 3789	Holtfreter J 7441	
Harnach R 3227	Hebert L P 1046	Herndon C A 7168	Hipsley E H 7373	Holtzclaw C 7157	
Harnly M H 4566	Hecker J L 6368	Herre H 138	Hirsch A 5630	Holzer K 6175	
Haro C de 7183	Heckl R 5056	Herrero de Egaña M 1962 6021	Hirsch D E 3067	Homann H 4435	
Harper H B 2201	Hederström T 2549	Herrick C A 3829	Hirst F 6022	Homb T 2847	
Harr J F 3893	Hedlin R 7167	Herrick L W Jr 3895	Hiscock E A 7374	Home Sir J M 7044	
Harrington J B 818	Heeteren H V A van 1781	Herrlein H G 6174	Hisserich H 5174	Honey R 188	
Harrington J F 6479	Heger 1782	Hershberger R V 4188	Hitchcock A E 647	Hooghoudt S B 1852	
Harrington L 5894	Hégray H 1142	Hershey J W 1294	Hitchcock O B 4240	Hoogland Instituut voor Moderne Veevoeding 5561	
Harris A 643-4	Heiberg G M 5559	Hertel J P 7169	Hitchner S B 3790	Hooker A A 7331	
Harris E E 2596-8	Heick F 966	Hertig M 4561	Hixson E 4500	Hoon R C 1966	
2644	Heid J L 5895	Hervey A 382	Hixson F M 3610	Hooper M M 4394	
Harris J 7329	Heidenreich V T 2077	Herweijer C H 1963	Ho T H 2620	Hoover M D 2788	
Harris J E 7449	Heilman G 7450	3066 3319	Hoak C M 1435	Hopewell W W 4739	
Harris J H 1255	Heilman M 7450	Herzer F H 5656	Hoard B 5896	Hopf L 6087	
Harris J R 4072	Heinemann H B 5008	Heslop-Harrison G 4663	Hoare C A 4553	Hopkins D P 1088	
Harris L E 4056	Heinkel F V 7266	Hess R W 2619	Hobart G M 2704	1886 1965 2235	
4072	Heinkel H E 5608	Hester E 3765	Hobbis E W 1256	6715	
Harris R S 7372	Heinrichs P 6019	Heston R E 5147	Hock A 621	Hopkins J 4242	
Harris T H 5975	Heiple D K 4993	Hetherington E 1432	Hockey K C 1144	Hopkins R H 5445	
Harris W V 4853	Heiser C B Jr 135	Hetrick J H 5560	Hodge W H 1783	Horine M C 2536	
Harrison C M 965	Heiss W V 3893	Hetterich G 2589	Hodgen R L 7269	Horn M J 5243	
4341	Heliodoro Valle R 925	Heuberger J W 4238	Hodges H C 3228	Horn N L 435	
Harriss R W 1141	Heller C A 7403	Heuer H 926	Hodgson J G 7375	Horn P 3071	
5993	Heller V G 3727	Heumann J M F 4013	Hodgson R E 3321	Hornby H E 4572	
Harry J B 339	Helllinga F 6770	Heus J G de 5561	Hodgson R H 1176	Horne B C 4915	
Harshfield G S 3732	Hellstrom S 2367	Heuser G F 3686	Hodgson R W 1184	Horne L W 5373	
Hart E B 7426	Hellyer A G L 1428-9	3723	Hoechstetter H 5107	Horowitz B 1063	
Hart Mrs P 1424	Helmenius A 2845	Heusser J 1143	Hoefer A 7170	Horring J 6774	
Hart S H 6693	Hem M 3168	Hevesy G 7536	Hoehne F C 69	Horsfall J G 650	
Hart W H 4729	Hemker W D 5146	Hewitt C R 3896	Hoekstra P 648	Horton A 1964	
Harte C 7553	5173	Hewitt E J 1866	Hoekzema J P 1638	Horton D C 6902	
Harth Terre L 7265	Henderson A E 5809	Heyndrickx G 5732	3611 3897	Hostetler R 3230	
Hartman G B 7486	Henderson C F 4250	Heyndrickx G V M 5588	Hoff P R 4985	Hostetter H P 6651-2	
Hartman R C 3608	Henderson E R 3316	Hibbert C W 5609	Hoffer C R 7171	Hostettler H 5244	
Hartmann H T 1183	Henderson E S 1430	Hibbert D 6504	Hofferbert W 4664	Hotchkiss J C 7270	
Harvey E W 6554	Henderson E W 3788	Hick A E 1433	Hoffman A 4665	Houck L H 6903	
Harvey H L 388	Henderson F 3317	Hickinbotham D P 6461	Hoffman A W 2681	Houdelot C 3072	
737	Henderson G 6173	Hickman V V 4432	Hoffman E 3898	Houk H 4498	
Harvey J R 3892	Henderson H B 7419	Hicks R S 2435	Hoffman J R 4434	Houlahan M B 556	
Haseman L 4571	Henderson J H M 646	Hicks S D 4707	Hoffman M T 5810	Houldson E 3981-2	
Hashim A S M 1293	Henderson H 6897	Hidalgo L 6331	Hoffmann A 37	6176	
Haskell C H 6694	Henderson R G 249	Hiele T van 5977	Hoffmann C H 4241	Houle C O 7376	
Haskell W H 5680	Henderson W 3669	Hiemeleers J 1216	Hoffmann E 3627	Houssay B A 3393	
Hassan W E Jr 801	3695 3894	Hiesey W M 120	3697 3731 3851	Hout F van 7332	
Hasselberg L 5658	Henderson W J 4499	Hietter G M 2115	2913-14	Houtzagers G 2493	
6983	Henderson W M 2911	Higgins Mrs M 3980	Hofmann C S 4393	2754-5	
Hassenmiller C N 6615	Hendrickson B H 2078	Higgins T 3636	Hofstee J 5919	Hovd A 2116	
Hastings W R 1087	Hendrickx H 5732	Higgins T C 3785	Hofsten C G von 1720	Hoveland N 3171	
Hatch M H 4498	Henin S 1831	Higgs C 6332	Hogan A G 3169	Howard D J 7172	
Hauge S M 3682-4	Henius H R 5444	Hildebrand E M 342-3	Hoge O S 2995	Howard H W 501	
3714	Henke F 684	Hilditch T P 6333	Holbert B 863	Howard J P 3394	
Hause D B 6229	Henley J H 5976	Hilinski F A 6086	Holdaway C W 3170	Howard N F 7491	
Haushofer H 6896	Hennessey J F Jr 7330	Hill A W 112	Holden A E 4872	Howe J 5374	
Hawk V B 340	Hennig B 36	Hill E B 7043	5168	Howe R W 4243	
Hawkes A D 35	Henriksson A 3318	Hill E G 3719	Holden W D 3396	Howe W L 4745	
1425-6	Henry A M 5918	Hill F W 3696	Holder J van 204	Howell H B 6904	
Hawkinson L F 1427	Henry L K 202	Hill H 5148	Holec E 4830-1	Howell O B 251	
Hawks S N Jr 2229	Henry R 203	Hill H O 1974	Holland H J 500	Hoves F N 1034	
Hawley R C 2456	Henschien H P 6273	Hill H R 4433	Holland R F 5683	Hoves H 3612-13	
Hay R C 2195	Henson W R 4806	Hill J E 7268	Hollander W F 6409	3700 3899 3900	
Hay T 341	Hepburn J M 3609	Hill O J 3320	Hollansworth J 7235	Howey R 7173	
Hay W D 1961	Herbert J T 6020	Hill R E 4500	Hollard M G 3069	Howitt B F 3791	
Hayden H 5808	Herbignat A 2753	Hill R P 6899	Hollerich R 3229	4436	
Hayden H S 702	Herborn A W 2196	Hildebrand E M 342-3	Hollis J P 649	Howland J E 1089-90	
Hayes J B 6984	Herbst M 1431	Hilgeman R H 1832	Holm B 4817	Hoys D 4101	
Hayes R 6017	Heringer E P 136	Hilinski F A 6086	Holman H H 2968	Hoyt H M 3231	
Hayes R W 2777	Heritage C C 2646	Hill A W 112	Holman L 5009	Hsi C F 2117	
Haynes J L 645	Herman E P 4343	Hill E B 7043	Holmes G 3699	Hsia E 1436	
Hays W R 6018	Herman H A 3065	Hill E G 3719	Holmgren A H 1721	Hsiang Y T 5301	
Hayward C L 475	Hermandades Sindi-cales de Labradores y Ganaderos Asambleas Nacional 6771 7267	Hill F W 3696	Holmqvist N 5127	Hsieh C P 6775	
Hayward D E H 2844	Hermann F J 137	Hill H 5148	Holmström S 2846	Hsu K T 5812	
Hazard F O 4816		Hill H O 1974	5285-6	Hsu P T 3701	
Hazen M S 1718		Hill H R 4433	Holstein-Friesian Assoc of Amer 3069-70	3807	
Headington R C 7042		Hill J E 7268	Holt E K 6348	Hu C K 4463	
Headley F B 6406		Hill O J 3320		Hu H H 1385	
Healy A J 90		Hill R E 4500		Hubbell D S 1834	
Heaton C R 2091		Hill R P 6899		Huber L G 3232	
Heaton D 4342		Hill WE 6773			
Heaton E B 5007		Hillery W O 1434			
Heaton T B 6085		Hilli A 1719			
		Hilton J H 6901			
		Hilton R J 250			
		Hinchliffe E 927			
		Hincks W D 4239			
		4708			



Item	Item	Item	Item	Item	Item
Huber M G 5139	5076	Illman W I 5813	James H B 5081	Johnson E L 653	Item
Huber P 524		Iltis J 1784	James J A 7492	Johnson E P 2850	Jullien I 6272
Hubert E E 2647		Imlau B 3076	James M F 4137	Johnson F A 7453	Jussiaux P 7461
Hubert G A 5446		Inchauspe J A 3077	James P E 7121	Johnson H A 6411	
Hucker G J 5681		India Cent Bd of Irrig 2118	James R S 6410	Johnson L P V 549	Kaiser W G 5182
Hudson C J Jr 1437		Indian Cent Cotton Com 288	James W T Jr 6654	Johnson M C 2596	Kallela O 3907
Hudson E P 2264		Technol Lab 5814	Jameson E W Jr 4437	2598	Kallock C W 7380
Huey E E 5762		Ind Agr Expt Sta 813	Jamieson C A 4328	Johnson O R 6905	Kalman J 2851
Huge T L 4244		864 1971	Jamieson S 2968	Johnson R A 4711	Kaloyereas S A 5516
Hughes C E 3614		Indore Inst of Plant Indus 38	Jamison H 5326	Johnson R E 5079	Kaltenbach R G 347
3902			Jane F W 2624	Johnson R G 6440	Kaltenegger M 5012
Hughes C G 1052-3			Janetzki C 1036	Johnson T J 62	Kamm A J 6230
Hughes D L 2968			Janini Janini R 7081	Johnson V W 3199	Kammerer E L 1450
Hughes E H 4128			Janiszewski J 3527	Johnsson P 2756-8	Kammerlohr K 815
Hughes F 2676			Jannone G 4769	Johnston A 5817	Kammlade W G 958-9
Hughes H M 1145			Janowski H 4151	Johnston C N 2119	Kanervo V 4249
Hughes J F 2677			Jansen J 3795	Johnston C O 345-6	Kans State Bd of Agr 5404
Hughes L E 4450			Jansson A 2415	Johnston F B 6014	Kans State Col of Agr and Applied Sci 5517
Huigues L 5041			Jansson F 7274	Johnston J R 1974	
Huisking J A 6334			Jansson S L 1973	Johnston O 4917	
Huitema H 3322			Janvry J C de 4247	Johnston T H 908	
Hulbert J C 4166			Jao C C 189-90	Jokioinen R M 7537	Kansky G W 971
Hulbert L S 7271			Jaquemin L 5447	Joneborg S 2416	Kaplan M M 3487
Hull F E 3509			Jarl F 3848-9	Jones A H 6014	Kaplan R 550-1
			3174-6 6177	Jones C L 5818	Kapur A F 4503
Huller K 6534			Jarrett H R 7097	Jones C M 4555	Karban L 5518
Hulshof H J 7045			Jaskowski L 3216	Jones D 6480	Karimoen C 2997
Hultz F S 3073			4438	Jones D B 5243	Karlsson K 4345
Humphriss E 5562			Jasper D E 3236	Jones E E 2919	Karper R E 5755
Humphry E V 967			Jaumes L 6023	3797	Kaš V 7538
Hunger E A 3172			Jax P 3177	Jones H E 1846	Kästli O 3237
4916			Jeanson P 5375	Jones J H 3185	Kästli P 5631
Hunkeler M 4344			6777	Jones J M 6180	Kaswell E R 5821
Hunsecker T Jr 3074			Jeffers W F 4235	Jones LA 2198	Kasza D 1260
Hunt R 252			Jeffrey F P 3617	Jones L H 654-5	Kaszewska W 1661
Hunt W J 1968			Jehle R A 5979	Jones L O 3703	Katz L 5312
Hunter W L 5753			Jenkins A E 344	Jones M 6955	Katz S M 5822
Huppert V 1969			Jenkins C F 1442	Jones P A 380	Kauffman R E 3368
Hurd M 5908			7493	713 1789	Kaufman L 6412
Hurd R M 968			Jenkins C F H 4854	Jones R B 6585	Kaufmann B P 4573
Hurd T N 6716-17			Jenkins J S 5816	Jones R C 3179	Kaufmann J 1878
Hurley C 7377			Jenni E 3486	Jones R E 5080	Kaufmann S 1786
Hurst F J 5754			Jennings D C 2918	6131	Kauma E 2494
6776			Jennings D S 2159	Jones T C 6597	Kausche G A 5246
Hurst O E 6653			Jennrich W 1644	Jones T K 5081	Kaussari M 4666
Hurwitz C 1853			Jenny H 1854	Jones U S 1855	Kavanagh F 382
2227			Jensen C O 1914	Jones-Evans E 5644	Kawashima M 5823
Husby M 6985			Jensen H L 5403	5682	Kawecki Z 2939
Huss R B 1842			Jensen H M 5513	Jongeling C H 4061	Kay H D 5687
Hussain M F 5077			5740	Jonsson J N 2778	Kay R 1451
Husserl H 7420			Jensen I 866	Joosten J H L 7177	Kayan C F 6044
Hutcheson T B 1970			Jensen N F 882	Jordan W 5683	Kayser E 4918
Hutchings E 5978			Jensen T 6024	Jordbrukstek Inst Meddel 5034	Keagy H F 3453
Hutchinson G E 7451			Jeppesen J H 3702	Jorge W de 1836	Keck D D 40
Hutchinson J 3075			Jepson W F 4248	Jornlin F M 656	Keh K 5824
3485			Jerna G 1645	1821 1887	Kehren L 6336
Hutson E 1438			Jerstad A C 3796	Josefsson A 814	Keidel B 2648
Huttar J 5010			Jessness O B 5514	Josephson D V 5563	Keidel F A 5943
Hutton E M 1639			Jewell B M 5515	5684-5	Keilholz F J 7495
Hvidsten H 785			Jiménez Arrechea S 3562	Josephson E S 3784	Keiser I 4250
2915 7421			Jobim A 6178	Joshi B C 3704	Kell J 5327
Hyler J E 2565-6			Jochem G 4088	Joslyn M A 5923	Keller A G 6510
2621-2 2729			Joffe J S 7494	Josse J 5564	Keller E R 6779
Hylton W G 2292			Johannesson J K 1863	Joubert L 2910	Keller J C 7335
Hyman J & Co 4245-6			Johansen C 6778	Jougan E 1146-7	Keller M M 7381
4502 4709 4767			Johanson R 786	1219-20 1447-9	Kelley R R 6780
4818			Johansson I 3323-4	5929	Kellogg C E 1822
Hyslop J 1640			Johansson W I 4770	Jourdain C 5819	4003
			John C M 652	Jourdain T 5898	Kellogg J H 7382
IAkovlev P N 1217-18			Johnson A A 1443	Joyce A 3618	Kelly C D 60
Iceland Hagstofa 7333			Johnson A T 1258	Judkins W P 1259	Kelly P L 5082
Iderhoff 3434			1444-6	1907	Kelsey F E 3842
Igolen G 6335			Johnson A W 7175	Jugenheimer R W 867-70	Kelsheimer E G 420
Igot Y 5897			Johnson B B 3178	Juhn M 3798	4856
Illartein M 3526			Johnson B C 4137	Juillard N 1185	Kelso W T 4074
Illingworth F 7378			5245	Jukes T H 3769	Keltner C H 1722
Ill Geol Survey 2282			Johnson B N 2355	Julén G 970	Kelway C 1091
Ill U Col of Agr Ext Serv 812			Johnson C F 6179	Julien J P 5686	Kemeny V 5376
			Johnson E J 4952	Jull M A 3704	Kemp E E 1452
			7176	3905-6	Kemp H K 2120



Item	Item	Item	Item	Item	Item
Kemp J 6413	Kirenskii G 3079	Kogane-Charles M 764	Kroese W T 5828	Lahnemann R 6579	
Kempson M 3435	Kiriukhin G 4667	Kohlmeyer W 3801	7336	Lahousse J 5250	
Kennington K W L 5825	Kirk H 2921	Kohr L 7383	Krombein K V 4712	Laird M 4627	
Kendall M W 41	Kirkland J B 7178	Kolb 5659	Kromdijk G 1458	LaJudie 2231	
Kendrew J C 4075	Kirkpatrick H C 437	Kölbel H 659	Krosby P 6482	Laking L 1461	
Kendrick J B Jr 417	Kirkpatrick M G 3799	Koller E F 5520	6488	Lal G 1900 6027	
Kennard D C 3908	Kirkpatrick W G 6783-4	Koller P J 660	Krotov A I 4154	Lal K N 1981	
Kennedy A H 3454-5	Kirksey G 2922	Kolomiet's I A 661	Kruedener A Freiherr von 2457	Lal M 1186	
Kenney C H 6275	Kirste A 1977	Kolpakov D 6908	Krueger W C 4960	Lal Jain N 6027	
Kenning W 972	Kissling R E 3791	Kondi A 4621	Krueger W F 3720	Lalanne 4925	
Kent G C 882	3809	Kondra P A 6987	Kruel W 2458	5044	
Kent or Romney Marsh Sheep Breeders' Assoc 4033	Kistler J S 1454	Kondrup M 6025	Krug H P 1459	Lallemand 2368	
Kenten R H 6208	Kitchen C W 5208	Könemann E 7047	Krukovsky V N 5568-9	Lallour M 4104 5829	
Kenya Colony and Protect 7046	5944	Koniuszy F R 4286	5690	6850 7496-7	
Kenyon B W Jr 7275	Kitchen S F 4624	Kono H 4505	Krupko S 498	Lamb F B 2331	
Keppel G E 6414	Kitroser S 3238	Koonz C H 3595	Krupski A 3534	Lamb G N 2625	
Kern F 2706	Kittrell F P 7404	6453	Kruyk P A 5986	Lamb L W 3082	
Kern P 3563	Kitunen E 6488	Kopaczewski W 1837	Kruiy W 1460	Lambert N 1462	
Kersting H 4919-20	7422	5567	Kubal J V 6556	Lambert P S 2924	
6986	Klages K H 871	Kopel'kievskii G 874	Kubelka V 6182	Lambert R 7280	
Kertesz Z I 5920	Klamt R H 6971	Kopelson A R 5149	Kublan A 876	Lamego A 6511	
5924	Klarenberg K A 974	Kopparbergs Läns Hushållningssällskap 7278	Küchle F A 6088	Lamiaux R 2567	
Kesper J 5013	Klautky B 3564	Koprowski H 3802	Kuckuck H 553	Lamour P 6657	
5083	Klayman M I 2257	Korányi H K 1093	Kudrjashov M V 4076	Lancaster M 45	
Kesselring H 5930	Kleermaeker K J B Van 2284	Korbobo R P 2471	Kudriavtseva N 877	Lance B G 3698 3706	
Kessler H 657	Klein G T 6416	Korkman N 3080	Kuelling H J 2679	Landgraeber W 2649	
Kester W O 2920	Klein K 4668	3327	Kuemerling K 4873	Landi S J 1038	
Ketelaar J A A 4251	Kleinzeller A 1879	Korneev I P 3328	Kuhlman A H 3180	Landin B O 4508	
Keyser B 3078	Klesov M D 3529	Korneeva M S 1262	Kuhlman G W 6988	Landsorganisationen i Sverige 2418	
Keyser F 3078	Klett 4504	Kornienko-Koneva Z P 2923	Kuhn R 4506	Landstrom K S 7094	
Keyzer R de 1453	Kliesch J 3325	Kor'sbaek N 1457	Kuhnoltz-Lordat G 663	Lane F A 6213	
Kezer A 816	Kline O L 5249	Korzhavina E 875	Kuiken K A 7423	Lane J A 1647	
Khachatryan S S 552	Klingberg H 2417	Kosar W F 572	Kulash W M 4771	Lane J B 6028	
Khan A A 4038	2496	Koschmieder H 2590	Kulcke 2852	Laneville R 2925	
Khan I U 254	Klingman D 872-3	Kosikowsky F V 5632	Kulkarni Y S 419	Lang A 665-6 683	
Kharchenko M D 3528	Klosterman E W 4060	Kosikowsky K V 5689	Kult K 4507	Lang J A 3083	
Kharitonova E N 1221	Kloth 4922-3	Kosin I L 3909-12	Kumetat K 5691	Langdon A G 1463	
Kholebenkov D S 6254	5043	Kosinsky V 1260	Kummer G 91	Lange W 1094	
Khoshoo T N 511	Kloth W 6906	Kostrukova K I U 502	Kummerow F A 6418	Langevin E 4252	
Khot S S 4102	Klotz L J 240-1	Kott S 1724	Kundu N 773	Langford C T 7549	
Kidder E H 2197	254 . 658	Kotze P L 3329	Kunicki-Goldfinger W 3240	Langford G S 4481	
Kiel H 1856	Klougart N 1092	Kovachich W G 351	Küntzel A 2721	Langshaw A H 3425	
Kiellander C L 2495	Klug H L 2943	Kovalev A A 44	Kuo M H 6785	Langton M 4621	
Kiely T 348	Klugar J 6337	Kozlowski T T 503	Kupcik V 3330	Lannek N 3397	
Kieser M E 5922	Kluge H 5827	Koz'mina N P 504	Küppers G A 1646	Lanng O 1797	
Kiessling L 1975	Knapp J G 7276	Krafft de Boerio C 4103	Kuppuswamy P B 4077	Lanni F 4155	
Kiger J 5247	Knecht J 7179	Krahl-Urban 2330	Kurtz E B Jr 505	Lapadu-Hargues 5987	
Kihlman B 626	Knickmann E 2295	Kramer A 4014	Kuswa W 5692	LaPage G 2926	
Kildee H H 6782	Knight E D 4034	5980	Kutish F A 6656	La Panouse 2332-3	
Killanin Lord 3488	Knight F P 1455	Kramer H A 6127	6962	2459	
Killian C 349	Knock F 1456	Kramer M 662	Kutnewsky F 1979	Laplaid M 3084	
Killion C E 4346	Knolle W 6481	Kraneveld F C 3530-2	Kuy P van der 4626	Larinkari J 2650	
Kimeldorf D J 4004	Knorr L C 417	3803-5 4153 6417	Kuzmeski J W 1980	La Rivers I 4509	
Kind P A 5248	Knowlton G F 975	Krantz F A 352	Kuz'min A I A 1262	La Rock M J 5108	
Kind W 4921	4347	Krastin N I 3239	Kvapil M 7279	Larsen B J 4409	
King A S 2250	Knox R G 1978	Kratzer F H 3705	Kyger F A 3081	Larsen E 3085	
King A W 3436	3326	Kraus O 7524		Larsen H 6909	
King D F 4844	Koblet R 7277	Krauss W E 3147	Labat C 1263	Larsen J A 2465 7486	
King E M 2282	Kobold Mrs E H 6181	Krauter P 6655	Laborey F 668	Larsen L J 5900	
King F P 6875	Kobusiewicz T 4152	Krehan 7048	Lacey J J 4138	Larsén C 4669	
King G H 1976	Kobuski C E 140	Kreitlow K W 353	Lachenmaier F 6718	Larsen P B 5557	
7539	Koch 976	Kremen S S 6276	Lackman D 4439	Larsen S A 5313	
King J 2121	Koch B 3800	Kremer J C 1148	Lackman D B 3249	Larson E V H 2537	
King J H 2294	Koch D E V 2199	Kreuz A 2122	Lacourlie 6303	Larson M 3426	
King J R 4814	Koch H 6907	Krieger H 3396	Lactrone G N B H 7424	Larson R B 1464	
King M 5565	7180	Krimbas B 1261		Larson R H 200	
King N 5566	Koch P 928	4924	Lacy B 3331	LaRue P 667 977	
King N J 350	Koczera F 5519	Krishna S 1787	Ladefoged K 664	Lasser J K 6695	
King R 6420	Koehl H C Jr 7181	Kristianstad Läns Hushållningssällskap 7540	LaForest G 6786	Lasser T 141	
King W A 973	Koehler J W 1723	Kritzinger C C 6277	Lagarde J 6026	Lassetter W C 1725	
Kinget R 5328	Koehler R E 5610	Krivoshva E E 3533	Lagerlöf N 5084	Lataillade L J 5981	
Kingma F J 3395	Koel B S 4819		Lagos U J A 1037	Lathrop E C 6060	
Kirby A 6415	Koernich 5329		Lahiri K L 2386		
Kirby R H 5826	Koerver C 5688				
Kirchheimer F 42-3	Koester F W 3489				
	Koffman M 2913				



	Item		Item		Item		Item		Item
Lattimer J E	6624	Lemmon L	1982	Linden L van der	1470	Lorkh A	1652	Ma R H	818
6910		Lemonnier-Leblanc J		1651		Los Angeles Co Calif		Maan W J	5561
Lattner E J	5028	7049		Linder H	5695	Dept of Forester and		Maaz P	52
Laudani H	4510	Leng E R	867-70	Lindgren D L	4255	Fire Warden	2466	McAllister L	2124
Laude H H	46	Leno Valencia J	7183	4260		Losinski T	4156	Macan T T	4629
Lauderdale R W	4265	Lenormand H	507	Lindgren R M	2500	Lotte	2569	McArdle A A	6421
4558		Lentz A N	2471	Lindley H	5781	Lotti T	2444	McAree J V	3621
Laughnan J R	554	2497-8		Lindquist A W	4585	Louch R E	3629	MacArthur M	6014
Laumont P	6089	Lentz J H	4927	Lindroth C H	4513	Louis R	7283	McAuliffe H D	5571
Laurent A	6719	Leon C F	7091	Lindsay W R	2387	Lourdes R de	356	McCall E R	5831
Lauridsen C	5693	Leon L V	3490	Lindstrom M	4139	Lourie E M	4553	McCallum W H	2730
Lautenschlager W	2335	Leonard H	3565	Lindwall L J	4140	Louth J D	5451	McCargo S	4964
Lavollay J	668	Leonard H W	7184	Linehan P A	979	Louth J D	5451	McCarthy D D	4630
695		Leonard O A	709	Link P	4037	Louvrier R	4348	McCarthy S A	7186
Lawhon G J jr	3241	Leont'ev F M	4226	Linn M B	4671	Love A B	5106	McCarthy W J	5252
Lawrence C J R	3242	LePage G A	2943	Linon G	2998	Love H H	882	McCartney M G	3806
Lawrence C S	5449	Le Roi D	3086	Linssen J	4442	Love K S	580	McCay C M	7384
Lawrence J S	4001	LeRoux P L	4553	Linton H L	5696	Loveland A J	6090-1	Macchiavello A	4855
Lawrence M A	1465	Lery G	2853	Lippincott T	3983	Lovell C L	6086	McClain R L	424
Lawrence R F	4440	Lesbouyries G	3087	Lips H J	6339	Løvenskiold H Jr		McClanahan S A	1474
Laws C L	1466	Lescuyer	2740	Lipton M M	2908	4929		McClay W D	5314
Laws S G	4441	Lesser M A	2599	List G M	393	Loviseti G	7338	McClellan W D	674
Lawson E	978	Lester J	2123	Lister J H	5085	Lovvorn R L	980	McClintock D	1475
Lawton H F	255	Leukel R W	354	Little R B	3198	1027		McClintock L D	6250
Laxminarayana H	5641	Levan A	817	Littleton R W	3619	Low A J	5169	McClintock T F	2420
Lazenby K G	1467	Leveck H H	3153	Littorin S	4986	Lowe C H	6420	4777	
Leagans J P	7236	4078		Liu C L	4514	Lowe L T	5521	McClymont G L	3181
Leatherman S	1468	Levett R J R	4774	Liu C L	4514	Lowenberg M E	7405	McColl B J	2538
Lebeau	6598	Levien B J	5251	Liu H	6340	Lowery J C	883	McColloch C L	6183
Le Beau D S	6467	Levine B S	5570	Liu T C	672	Lownsberry B F Jr	459	McColloch L P	229
Le Beau O R	4926	Levine D	3470	Livera E J	2202	Lowrie A W	6789	McColloch R J	5920
Lebedev V	2436	Levitt J	670	Ljungman D	6788	Lowry B	3491	McCollum E V	7385
Lebel L D	4035	Levitt M F	3389	7282		Lowstuter A B	5960	McCombs L	1476
Le Charles L	4772	Levy L II	3394	Llosa Belaunde C	2297	Loy G M	4349	McConaghy S	979
Lechner F G	7182	Levy M L	3575	Lloyd E B	1471	Lubke A	4167	McConnachie E W	3742
LeClair W J	2568	Levy Mrs M R	142	Lloyd M D	3708	Lucas E H	731	McCormick M	1477
Leclerc	7281	Lewicki S	880	Lloyd-Thomas W		Lucas P S	5594	McCourtney E J	6368
Leclerc H	1149	Lewis A J	6338			Luciani L	5452	McCullers J M	6536
Le Clercq J	4511	Lewis D	3769	Locquin J	3915	Luck J M	5333	McCullough (J Chas)	
Lecourt B	878	Lewis G J	142	Locquin M 47-8	510	Lucky T D	3709	Seed Co	6485
Ledingham G A	5813	Lewis H C	4254	Lodge C	3916-7	Ludolf A de M	884	McCullough W B	6031
Lee A R	3639	Lewis J C	2200	Lodi G	5377	Luecke R W	4141	6092	
Lee C L	508-9	Lewis L	4628	Loe B	4963	Luer Mrs H	4350	McCully A	1478
Lee F A	6029	Lewis T J	5682	Loest F C	258	Lühdorf A	2336	McCunn J	2929
Lee G W	6535	Leyendecker P J	355	Loewel E L	4970	Luk'lanenko P P	673	McDaniels L H	1479
Lee H T Y	4773	438		Lofgreen G	5757	Lumsden W H R	4624	McDermott J E	6231
Lee I M	5330	Leyva F	671	Löfgren A	2419	Lund C E	6342	McDonald A	5832
Lee K C	5331	Leyvraz H	1264	Logee E	1472	Lund H J	4351	7187	
Lee S Y	879	Lhoste J	581	Logginov V P	3549	Lund J H	6484	McDonald C W	2855
Leedy D L	7082	Li C L	6570	Loh C S	508	Lund O	2501	McDonald E J	6514
Leefmans S	7541	Li H W	508-9	Lois R J	49	Lundstedt E	5697	McDonald F J	5572
Lefcopoulou T	4621	Li S M	6599	Lollar R M	6276	Lunt H A	2298	McDonald G	2125
LeFranco P	4105	Libowitzky J A	1983	Loma J L de la	1987	Luque F G	2928	4631-2	
Le Gal M	506	Libutti D	5450	Lominski I R W	50	Luquet M	3427	McDonald H	4739
Le Gallais P	4036	Lichtenwald C G	3914	Lomnitz-Waldhof	2854	Luthardt W	1653	McDonald J A	358
Leghis H M	256	Liden C H	881	Londorfo B M	928	Luthman G	2779	McDonald J F	6660
Leghis L M 555	669	Lieberman J A	2788	Londono G L	1908	Lutri I	7050	McDonald S G	7339
2296 6030		Liedell H J	5694	Long J D	4928	Luttrell E S	357	McDonald W P	5029
Legrand G	787	Lier O	6483	Long L G	3398	Lutz J M	229	McDougall T	1480
Lehmann C A	2591	Liese J	1649-50	Long M D C	5263	Luz Filho F	7284	McDougall W A	1054
Lehmann H	2437	Lietar R	4395	Long M E	7337	Luzzatto F	4574	MacDowall F D H	
Lehmann U	6141	Liguori F	1984	Long W E	6341	7051		749	
Lehner F	257	Lihnell D	439	Long W H	205	Lyall H G	2237	McElhanney T A	2651
Leibundgut H	2369	Lilburn W	2499	Longobardi C	5830	Lyman C M	7423	McElwain C S	6661
Leidl E	5175	Lillard J H	2074	Loomis A P	3620	Lyman J	5946	McEvoy E T	1064
Leighton F M	142	Lillie R J	3667	Looser G	181	Lynch V E	3428	Macewan J W G	3566
Leighton R S	1469	3741		Loosli J K	5757	Lynd J Q	1857	MacFadyen Sr E	
Leiler T E	4512	Lima P de O	1985	Lopez-Aranda A E		Lyne M A	4776	7188	
Lein J	556	Lima Romero J J		6658		Lynn B	7102	McFarland Mrs J	53
Leite A S	4574	6512		López Merlo R	7183	Lyon A M	3369	McFarland J H	1481
Leith W G	5332	Limasset P	441	López y López C	2927	Lyon C J	51	MacFarlane D L	7340
Lejeune G	2251	Lime	1986	Lorch	1988	Lyonnet	7285	MacFarlane I	5698
Lejeune R R	4713	Lin C C	2236	Lord F A	4775	Lyons G	5613	McFarlane W D	5270
LeMaire R	3376	Lin S N	6787	Lorenz E	1473	Lysenko T D	885	6343	
Lemarie Y	2759	Lind R C	2201	Lorenz O A	1989			McGaughey C A	4073
Lemmon A B	4253	Lindberg J	6209					McGee H A	1990
		Lindemann C	4670						



Item	Item	Item	Item	Item
MacGillivray J H 2126	Maerz 6791	Marec E 5140 5151	Marushchak M 1654	Medici G 7055
McGinn E P 2539	Magano V dos S 7103	Maréchal G 4352	Marvin L W 5947	Medina J C 682 931
McGinnis J 3701	Magie R O 261 360-1	Marescalchi A 981	Marvin V 2130	Medina M de 5194
McGovern J N 2707	4856	5461 5700 6793	Masek J 7387	Medley J J 5949
MacGregor H I 3808	Magladry R D 6032	7191 7342	Masner L 6185	Medon G 5195
McGregor M A 6002	Magruder J W 4987	Marfori R T 1996	Maslov T M 3535	Mees A 204
McGuire B B 5183	Maguire B 92	Margaillan L 5901	Mason C L 366	Meesukh C 7204
Machacek J E 259	Maguire E H 6184	Margalef R 476	Mason C M 1488	Meeuse A D J 4258
Machata F 5150	Mahaffy A F 4633	Margolf P H 3710	Mason D D 7499	Mehlich A 1859
Macilraith J J 3622	Mahajan L D 675	Margolis J A 5462	Mason H L 146	Mehlquist G L 1490
McIlroy R J 2930	Mahajan M R 4038	Mariani E 6515	Mason T W Jr 6292	Mehnert H 55
McInerny C W 6344	Maher R E 888	Mariat F 677	Máspoli A O 4672	Mehra P N 511
MacIntire W H 1992	Mahle G C 5515	Marie-Cardine R 7032	Masquelier J 798	Mehrhof N R 6423
McIntyre A C 2079	Mahner A 2252	Marie-Victorin Frere 143	Mass Forest and Park Assoc 367	Mehring A L 1909
McIntyre D L 6093	Mai W F 459	Marimpietri L 2129	Mass Fruit Growers' Assoc Inc 1150	Mehta M L 1788
McKay K G 4575	Maier-Bode F W 6792	Marin L 1223	Massey G F 5030-1	Mehta V K 4354
McKee I 5453 7498	Maine State Pomol Soc 1222	Marion L 789-91	Massey J H 3627	Mehurin R M 6210
McKeever I 1482	Mais H 6912	Marjani S 6794	Matagrín A 6033	Meidell A 2761
McKelvey V E 1897	Major E 7122	Mark F A 982-3	Matallana S 5702-3	Meier R 723
McKennon F 1095	Majumdar S C 2127	Markgraf F 144	5109 5523	Meira M T V de 4574
McKennon F L 6468	Makarov M 6913	Markham F S 3810	Matallana Ventura S	Meiser J A Jr 5671
Mackenzie J 5378	Makepeace L I 7455	Markus R 678	Mather K 557	Meisner F 892 6516
McKey G 1483	Malcolmson J D 2682	Marle G S van 4443	Mather W H 6989	Meissner F 7343
McKibben G E 1713	Malkiel S 440	Marlow H W 3811	Mathers L E 3333	Melchers G 665-6
Mackin G E 2707	Malta Minister for Trade and Customs 7341	Marquardt R R 2597	Matheson R 4641	Meldrum L E 4056
McKinney F 1484	Malta Cardozo F 7053	Marques J Q A 2203	Mathiesen E 2709	Meléndez Ortiz M 6851
Mackinney G 5454	Malterre L 5455	Marquet L 7104	Mathieu H 2570	Meléndez Rico S 7038
McKinney J 886	Mameli L 5456	Marra A A 2731	Mathis M 4353 4396	Melgar H (hijo) 893
Macklin H P 3623-4	Mancel R 5457	Marrack J R 5210	Mathis W 4677	Mélin E 5014
McLean E E 7092	Mandt P H 5699	Marriott F L 3711	Mathis W T 5254	Meline P A 6097
MacLean N A 359	Manell E 889	Marritt I C 2421	Matkin T D 5995	Meliss A 4517
McLemore P 930	Mangenot G 788	Marsais 4931	Matlin S 3352	Mello E M de 2000
MacLeod C 3088	Mangold E 2856	Marsden-Jones E M 145	Matrone G 679	Mello-Leitão C de 4444
McLeod D H 5589	Manion J P 6095	Marsden S J 3626	Matsuo T 891	Mellor T 2664
McLeod J 4576	Manis H C 4714	3741 6382	Matterson L D 3812	Melville A R 1789
McLeod J W 2370	Manker E 2999	Marsh A F 3577	Mattheus B 6915-16	Melzer E 2721
McLeod N W 2787	Manley T R 1486	Marsh D F 3576	Matthews B 1489	Mendes A J T 512-13
MacLeod W A 7286	Mann D 2128 7190	Marsh R W 362 5999	Matthews L 1998	Mendes E J 183
MacLinn W A 5379-80	Mann F C 6554	Marshall A E 5463	Matthews V D 1999	Mendes-France P 2277
McLoughlin R J W 1863	Mann M G 5834	Marshall H B 2652	Mattison C W 2780	Mendes L O T 4673
McMaster A 7189	Mann R H 2608	Marshall M 5059	Matuszkiewicz W 147-8	Méndez M I 5465
McMichael C W 1993	Mann T 2802	Marshall R P 262	Matzen W 3334	Menaghini M 4674
McMillan R B 6911	Mann W F 2688	363 1487	Mauch A 4970 5334	Menon H B 1266
McMillen W N 4141	Manning D 1096	Marston B W 7192	Maule J P 3000 3090	Mensier P H 6345
4168-9	Manning H L 916	Marston R 890	Maurer K J 1151	Mercer A D 6918
McMunn E W 5086	Manning P D V 5458	Martel H 6216	Maury L 2276 6186	Mercer R 6796
McMurtrey J E Jr 1065	Mansell R 2631	Martelli G M 4516	Mavromoustakis G A 4716-18	Mercer E 3093
McMurtrie D H 2715	Mansjoer M 3803-4	Marth P C 2265	Maw A J G 3628	Mercer W B 3629
McNall F J 6422	6417	Martin A Jr 4715	Maxim E 5988	Merchant I A 3243
McNeal X 887	Manson P W 2132	Martin E A 7386	Maximov N A 680	Merck and Co 2931
McNeil E 3809	Mansson E 5193	Martin F 5464	Maxwell R W 6486	Mercker A E 5950
McNeil R 3464	Mansy W 3754	Martin G 2275	Mayer A G 2131	Meredith D 641
McNulty J B 7052	Mantel K 6914	Martin J F 364	Mayer O G Jr 6232	Merkel E P 4241
McNutt S H 3281	Mantle L 3918	Martin J P 1997	Mayer-Schalburg R 7193	Merkushev A V 3567
MacPhee C R 1485	Mantovani J R 7554	Martin J T 4257	Mayet P 5023	Mertens Mrs N J 56
McRae M E 4414	Mantovani M 4515	Martin P 7287	Mayeux L C 1046	Merzari A H 3094
McRoberts L H 5253	Maoli L 5057	Martin T 3712 3920	Mayeux M 2253	Meschter E E 5981
McVey D H 5833	Ma P C 6790 7185	Martin V C 546	Mayor J 5032	Meshew M H 3921
MacVicar R 3677	Maramba F J Jr 6296	Martin W H 5701	Mayrhofer W 6795	Messer P J 5524
McVickar M H 1994	6296	Martin W J 365	Mazek-Fialla K 2653	Mestre L 4106
McWhinney J L 6963	Maran B 2760	Martin-Heidelberg K 1224	Mazzotti L 3379	Mestre Artigas C 5466
McWhorter F P 260	Marani R 5459-60	Martin Peñasco Camacho T 1962	Meacham W S 3091	Metcalf R L 4259-61
McWhorter H 3089	Marble D R 3625	Martínez C 3393	Meachem W 681	Metcalf W 2467
Macherel P 5573	3919	Martínez P 6096	Mead S W 3092	Metivier S 1860
Madan M L 1966	Marcantonio C 7054	Martínez Zaporta M 1265	Medeiros J A B de 5836	Metz A 3984
Madras Peoples' Food Council 6094	March R E 2708	Martini-Bettolo G B 792	Medeiros N de 7123	Meulen E V 684
Madras Provincial People's Food Conf 5209	Marchesi Sociats J M 1995	Martirena O 6153		Meunier P 4079
Madsen C B 570	Marchionatto J B 4821	Marty H 5152-3		Meurman D 1083
Madsen H F 4735	Marchner G 4256	Marty J 3399		Meyer E de 4355
4737	Marcout P 1261	Marulanda Caicedo L 3332 5522		Meyer E A 5903-4
Madsen L L 4056	Marcucci G B 676			Meyer G 3418
4072	Mare E de 2666			Meyer H 2603
				Meyer P R 2101 4988



	Item	Item	Item	Item	Item	Item	Item		
Meyers L D	3922	Mirov N T	793	Morere A	4519	Muir J	6431	Nangpal H D	4267
Meyers T	5931	Misener H A	4359	Moretti G 4264	4577	Muir W R	3717	Narayanan N G	918
Mezger H	6187	Mishler D H	3714	Morettini A	516	Mukherjee J N	6802	Narayanawami V	152
Mezzetti A	334	Misra R K	2133	Morgan B B	3281	Mulder H	5576	Narayanayya D V	2020
Miallet A	894	Misra U C	7425	Morgan H R	3815	Mullay M L	2438	Nardin E J	1268
Michaelis P	558	Miss Univ Col of Agr		Morgan J J	2689	Müller O	2626	Nasoetion A	3805
Michaelis W L	3471	Agr Ext Serv	1862	Morgan K J	5682	Mullett H A	6803	Nath B V	1849
Michaelson M E	393	Mistry S P	6112	Morgan L	2253	Mullick N P	4362	1868	
Michelbacher A E	4729	Mitchell C	7056	Morgan M	6665	Mulligan B O	1500	Nath N	7426
4778		Mitchell E W	5951	Morgando A	2004	Mullins C E	2468	Nathanael W R N	5926
Michener C D	7500	Mitchell H K	556	Morgenthaler O	4361	Muma M H	4500	National Assoc of	
Michelly G	926	Mitchell J W	2265	Mori H	1152	Mumford D C	6988	Coop	6696 728
Mick A H	1825-6	Mitchell P	6233-4	Moriarty J H	6800	Mundinger F G	4520	National Conf on the	
Mickle G T 4262	4499	Mitchell R L	4058	7195		4780		Community	7124
Micks D W	4635	7456		Morison G	4398	Munger F	4675-6	National Cotton	
Middelhaue L	5525	Mitchell S D	6663	Moriyama S	2238	Munger T T	58	Council	4932
Middle America Infor-		7288		Mork I	5633	Mungomery R W	4521	National Dairymen's	
mation Bur	6797	Mitra A K	860-1	Morocco Service de		Munns E N	2135	Assoc	5706
Middlekauff W W	4778	Mitton R G	6211	L'horticulture Mis-		Muñoz A A	4040	National Egg Prod	
Midlands Elect Bd		Moberg G	2503	sion Horticole	6035	Munro J	1501-3	Assoc Res Lab	6432
5154		Moewus F	514	Morpeth J C	5921	Munro S S	3633	National Inst of	
Miegeville	984	Moffitt Mrs J K	1491	Morpurgo E	7057	Munté V	4005	Agr Bot	821
Migo O B	4157	Mohanty U N	369	Morrill C C	3244	Muntz H H	2388	National Res	
Miklos A	5651	Mohr W	5574	Morris F C	4874	Muijzenberg E W B		Council Food and	
Miles C B	4397	Molaison H J	6468	Morris H B	6469	van den	690	Nutr Bd	5212
Miles I E	1861	Moldenke H N	93	Morris J C H	4446-7	Mukhina M F	680	Nattrass E F	6279
Miles S R	895	Molfino J F	1790	Morris J G	7406	Mulder E G	691	Naudé C P	6538
Millan R	6034	Molina Urrutia G		Morris R C	3631	Muller-Stoll W R		Naude P J	932
Millar P G	3095	5467		Morris R H	3716	692		Navarrete Pardo	
Miller D D	5704	Møller C M	2504-5	Morrison F B	2857	Mullins T	897	C	6100
Miller D G	2132	Mommers J	4360	4060		Mulvey R R	898	Naves Y R	6349
Miller E	7388	Moncrief T E	6427	Morrison F R	155	Mumford D C	1013	Naville R	5936
Miller E B	2920	Moncrieff R W	4263	4558		Munn M T	693	Nawaz S M	915
Miller F A	5381	5837		Morros Sarda J	5211	Munns E N	2789	Nayar S L	1750
Miller G E	6662	Monigatti J D W	1863	Morrow E M	6666	Muncz Ginarle B	559	Neal R V	7196
Miller H I	6407	Monoyer A	1492	Morse I H	6517	Munro J A	270	Neale P E	4041
6424-5		Monro H A U	4779	Morse R B	5287	Müntzing A	560	4108	
Miller H N	261	Monroe C F	1012	Morstatt H A	264	Murayama S J	1188	Nearpass D C	1864
Miller J P	3923	3194		Mortensen E	1187	Murphey C H Jr	6368	Neckarsulmer H	3246
Miller J S	4190	Monteaux A	5015	Morton A G	687	Murphy C T	3245	Neethling J C	6992
Miller L L	3378	Montenegro G G	1798	Morton J N	2506	Murphy R E	7058	Neher B H	3818
Miller M	3096	Montgomery F H	150	Morton P	2337	Murphy R G	6991	Neide K H	2762
Miller M V 6426	6990	Montgomery K M	6921	Morton R K	5575	Murphy U E	4259	Neish A C	5813
Miller P R	2001	Montgremier H A de		5705		Murray A O	3098	Neiswander R B	4522
Miller R C	6188	441		Moschler W W	688	Murray D	5577	Nelmes E	153-4
Miller R F	3723	Monti M	6522	Moscow Vsesoiuznyi		Murray J H	7458	Nelson E	1504
Miller R L	6920	Montpellier J M	3400	Nauchno-Issle-		Murray M D	6354	Nelson G H	6060
Miller P W	368	Montreal Bot Gard		dovatel'skii Institut		Murray S M	641	Nelson J M	752
Miller-Stirling J D B		1493-7 1655		Udobrenii I		Murray W M	2571	Nelson L B	2007
6798		Montreal U Inst		Agropochvovedeniia		Musgrave A L	3335	Nelson R C	1153
2002		Bot	143	Imenii K K Gedroitsa		2005		4268	
Millice R B		Monty T J	6290	2005		Musiiko A	820	Nelson R J	2543
Milligan J L	3713	Monzo Coll A	7344	Moser H C	2732	3927		Nelson R E	1865
Milliman L H	1295	Moody J D	3926	Moser L	6235	Mussehl F E	3665	Nelson R T	1910
Mills B	3924	Moers C A	2003	Moses H E	3816			Nelson T C	2483
Millson H E	5838	Mooney G K	1498	Moss B	6580	Muyzenberg E W B		Nelson W L	2008
Milner M	6098	Mooradian S	5838	Moss B L	517	van den	5045	5757	
Milner R T	6346-7	Moore A C	3715	Mossel A A	5382	Myer E H	6667	Neme N A	6350
Milsome J St G	3925	6428-9		Mostafa M A	689	694		Nerli N	4934
Milton J	6229	Moore E V	6430	Mote D C 4266	4578	Myers J	608	Netherlands Directie	
Milton W E J	685	Moore F	3630	Motter M	7105	Myers W I	5338	van den Landbouw	
Miniscalco V	896	Moore H I	819	Motyka J	477	Myrbäck K	5255	Veeartsenijkundige	
Milum V G	4356-7	Moore G R	3097	Moudgill K L	5835	Myre M	478	Dienst	2933
6142		Moore J C	5952	Mougin M	2667	Myrick N	5288	Neto J A	2204
Minden M B	7514	Moore M B	4142	Moule G R	4039			Netto F A	5634
Minderhoud A	4358	Moore R R	5128	Moulin G	6801	Nadaud F	5612	Neubauer E	3985
Miner F D	4191	Moore R R	5128	Moura L R de	2204	5953 6099		Neuhaas U	3325
Miner M L	4072	Moore T	7389	Mowry H	2006	Nadvornik F	2932	Neumann H J	6993
Minett F C	4080	Moore W D	370	Moxon A L	3801	Naef A	4170	Neumann J	695
Minn Dept of Agr		Moorehead C A	4445	Moyer R T	6440	Naerland G	4107	Neumeister H	6433
Dairy and Food	5756	Moorman R B	7457	Mrak V G	5315	Naether C	3928	Neunteufl J	6189
Minsky L	3813	Mora Dávila N	6600	Mueller C D	3632	Nageotte G J	5672	Neureuter	4935
Minster C H	5611	Morales P T	985	Mueller C H	1499	7106			
Mintz B	3760	Morales S	7011	Mueller H H	6348			New So Wales Dept	
Minut J	5526	Morales Antequera C		Muello C A	5839	Naik K N	6601	of Agr	7459
Minzlaff K	2609	1656		Muenscher W C	151	Naif M S	689	Entomol Br	4523
Mir R M	263	Moreau P	6664			Nair J H	5468	Newburger S H	6212
Miranda F	57	Moreira S	515	Muijzenberg E W B		Nambiar V P N	2627	Newby W	6351
Miro Esplugas M	1267	Morel C	2134	van den	5118	Nanda K K	602		
		Morel G	441			Nándor P	2445		
		Moreng R E	3814						







[illegible]



Item	Item	Item	Item	Item	Item	Item
Rich C I 1867	Robinson W O 1733	Rosene L 4770	Ryan R W 276	Satyanarayana K V S 1868		
Richard W 1157	2262	Rosenheim H H 3947	Rydell G 6521	Sauchelli V 1823		
Richards A E 7348	Robison W L 4145	5093		2032		
Richards F 3112	Roboz E 6559	Rosenwald A S 3830		Sauer H F G 4289		
3341	Rocasolano C 2027	Rosinger L K 7067	Sabador Roldan A 6724	Sauerlander O H 7349		
Richards J G 6934	2256 5716	Ross D G 3429	Sacay F M 7204	Saunders J W Jr 3832		
Richards W R 1528	Roch E 4412	Ross F K 3822	Sachsse H 7393	Saunders L Z 3405		
Richards W S 4453	Roche H A 5717	Ross G R 6358	Sackston W E 277	Saunie 3569		
Richardson A 4786	Roche M A 1532	Rossger W 722	Sadler G 278	Saurat P 3526		
Richardson A P 1529	Rockefeller E S 3114	Rossi G A 2300	Sadler G E 2257	Savage D A 1736		
Richardson B T 7199	Rodale J I 7202	Rossi R P 3263	Saenz Peña G L 3496	Savidge C 1228		
Richardson E C 3113	Rodón J M 3827	6998	Saettone G C 716	Savile D B O 230		
Richardson T C 5112	3944	Rostrup F 3948	Safronov A M 6582	Săvulescu T 6822		
Richer V 3402	Rodriguez C A 6572	Roten E 2867	Sagoschen J A 6285	Sawada K 1543		
Richou R 2945	Roe J 2028	Roth A R 4585	Saha J C 4288	Sawin P D 3989		
Richter H 3987	4285 4939	Roth F 4876	Sahai R 2447	4017		
Richter J 2712	Roehrich O 5852	Rothansl W 5533	Said H 724	Sawyer F G 2033		
Rickett H W 63	Roekens F 64 1533	Rothpletz M W 5158	Sain R B K 2150	Sayers W B 2658		
Ridder H 5046	Roelofs E T 2806	Rothstein A 723	Saint-Ollier 6242	Sayre C B 726		
Riehl L A 285	Roepke M H 4142	Rottgardt A A 2949	Ste-Marie C E 1280	Sazonov P V 4290		
Riemschneider R 4283	Roessel B 2211	Rottin B 2342	Sala A 2950	Scales A L 4490		
Riggs J K 3185	Rof Codina J 2866	Roudier A 788	Sala Roca E 563	4535		
Riley G E 2232	3261	Rouleau E 161	Salamov A B 564	Scales D 5160		
Riley H P 523	Roff W J 5796	Rousseau M 4371	Salani R 6522	Scallet B L 6116		
Riley T E 2736	Rogavitz H 5480	Roussel L 447 4287	Salas T 3117	Scamoni A 2514		
Riley W P 6113	Rogent I 7427	Rousselot R 4456	Salas Villagómez M 6821	Scanlan C M 3571		
Rinderknecht R K 6779	Rogers A 6197	Roussy L 4372	Saldias M O 997	Scanlon E H 1544		
Ringdahl O 4584	Rogers E F 4286	Rouveroux P 6819	Sale G N 2213	Scaramuzzi G 385		
Ringler 2805	Roger J G 1734	Rowaan P A 2284	Sales P S 2951	Scarff H N 1104		
Rios B B 716	Rogers D P 65 210	Rowe R 2212	Salisbury Sir E 67	Scarseth G D 727		
Risler H 4787	Rogers H W 2540	Rowe S C 5260	Salisbury G W 3118	Schaaffhausen R V 6117		
Ritcher P O 4531	2714	Rowell J B 383	Salomon E 4975	Schaal L A 728		
Ritchie J L 2371	Rogers J V Jr 6935	Rowland F E 5159	Salter W J 5316	Schacht H R 4989		
Ritchie J N 3259-60	Rogers T H 905	Rowland H B 2469	Samat M 5094	Schaefer H C 2868		
Ritchie J W 3473	Rogers W P 2948	Royal Soc Empire Sci Conf 7545	Samoilov I I 826	Schaeffer B B 6370		
Riter W E 3004	Rogge 6699	Royce R D 1714-15	Sampaio J 68	Schaeffer L 2448		
Ritman E L 6114	Roggen M A van 1799	Røyset S 2029	Sampaio O 3641	Schafer B 5223		
Ritter E J 2601	Roghani M M S 6041	Rozhkov F V 3551	Sampier J 6243	Schaffhausen J F 5113		
Ritter K 5220	Rohde E S 1800	Rubarth S 3404	Samvirkende Danske Frøavlerforeninger 6487	Schaik F S M van 5727		
Ritterbusch G 717	Rohmeder E 2764	Rubber Res Bd 1801	Samvirkende Sjaellandske Landboforeninger 7308	Schaller H L 6445		
Rivas Goday S 95	Rohrmuller R 6284	Rucker J C 3822	San Martín M 4120	Schanderl H 5482		
Rivera V 718	Rojas A 6541	Rudd C P 6444	Sanchez S J J 2082	Schaphorst W F 5661		
Riveros J E 5479	Rokahr M 7515	Rüdiger W 275	Sanday W J W 1541-2	Schär A 6360		
Rives 4938	Rol R 2574	Rudnick A W 5639	Sandelin A E 5718	Schard A 2372		
Rives E A 6115	Roland G 446	Rudnick D 7441	Sanders G P 5581	Scharrer B 4824		
Roaf J R 445	Roland L A 5185	Rudolf P O 2513	Sanders J T 1913	Schatz S J 1889		
Roane C W 381	Rollins S H 1438	Rudolph W 2541	Sanders R 5481	Schauder R 5196		
Roark C 1671	Rolsted M 2426	Rudolf W 1041	Sanderson C J 2807	6361		
Robb O J 1672	Rolston J H 6673	Rueda Marin M 7011	3542-3 3831	Scheibe A 6362		
Robbins P W 2656	Romanné-James C 1534	Rueda Vargas T 6614	Sanderson L 5715	Scheidenhelm E C 2953		
Robbins W J 382	Romanné-James Mrs C 4788	Ruehle G D 1190	Sandifer T N 5343-4	Schelhorn M V 386		
Robbins W R 645	Romanoff A L 3828	Ruhlman G J 6615	Sandmo J K 2592	Schellenberg A 5907		
Roberts B 7083	3945	Ruiz Castro A 4722	Sands W H 2671	Schellenberg H 5483		
Roberts B G 6283	Rombouts J E 160	Ruiz M B 6542	Sands W M 2575	Schenck C A 2576		
Roberts C S 3765	Romer R R 3640	Ruiz Santaella J 3724	2657	Schenck H E 5345		
Roberts E A 719-20	Romero M G 4455	Rumball P 3949	Sandwith N Y 321	Schenk P J 4723		
Roberts E W 4836	Romero de Tejada y Cuesta A 7012	Rumler R H 3950	Sangers W J 1272	Schenkelberg A 6964		
Roberts H W 7200	Romero Montero R 7108	Rummell L L 2030	Sansome F W 2031	Scherr J 4941		
Roberts I H 4454	Romijn C 3262	Rundquist J F 906	Sanson R D de 2151	Schery R W 1545		
Roberts J E 3185	Romon H 5342	Rupel I W 3115	Santiago Zabala 429	Scheunert 2869		
Roberts J T 3437	Rompert 3988	Rupp E 907	Santiagoblanco 69	Schiemann E 565		
Roberts O C 1271	Rónchi V 6723	Ruppen K 3951	Santiesteban T 6523	Schiethart L J 6700		
Roberts P H 7391	Roodenburg J W M 721	Rural Bank of N S Wales 1673	Santolalla N R 4114	Schilder F A 4683		
Roberts R S 2968	Roos G 6997	Rush P 4940	Santos Ruiz A 725	Schilt P 5244		
Roberts W 6818	Ros de Ramis J de 1535-7	Ruska H 443	Sanz F 6936	Schlamb K F 3969		
Robertson C R 3390	Rosacker D 1538	Russell A 2602	Sanz Egaña C 6252	Schlange-Schoningen 6583		
Robertson E I 3722-3	Rosand J 1158	Russell A G B 4789	Sao Paulo Instituto de Botânica 69	Schlehuber A M 908		
5761	Rosayro R A de 2790	Russell E W 5271	384	6106		
Roberson F K 1530	Rosborough J F 2091	Russell G E 7504	Sarmiento B U 2952	Schlemper P 7467		
Robertson G S 5221	Roscoe C 3946	Russell H L 7505	Sarrabay J 1103			
Robertson W M 2511	Rose A L 6198	Russell M 3116	Sarson A 3264	Schluderberg W F 6573		
Robin V 3403	Rose F J 1159	5958 7203	Sarten P 2603	Schmalfuss H 5640		
Robinson C 2233	Rosella E 274 1735	Rutherford D M 1191	Satchell G H 4586	Schmid G 3642		
Robinson D H 7201	Rosello A A 6520	Rutherford R S G 6820	Satterfield M H 7205	Schmid J 7109		
Robinson G M 6085	Rosén S 66 2512	Rutishauser A 193	5720	Schmid-Lamberg H 2954		
Robinson G W 1531	Rosenberg M M 3829	Rutledge C P 6674		Schmidt F 1042		
Robinson H E 6453		Rutledge M 6675		Schmidt T 420		
Robinson J L 2210		Rutledge P I 6676		Schmidt W 4291		
Robinson M 4532-4		Rutledge W A 3752				
Robinson P 4057		Ruys B 1102				
Robinson R H 4284		Ryan R S 1540				



Item		Item		Item		Item		Item	
Schmidthuber K	3990-1	Scotton M	4877	Shannon R E	5615	Silker T H	2516	Sloane E	7527
Schmidtman F	2258	Scoville G P	3952	Sharaf A	2959	Silva A B da	4457	Slocum G G	5261
Schmitz G	4790	Scruggs C G	4115	Shari M	4858	Silva A R P da	478	Sloss M W	2887
Schmitz H	4587	Scullin G	4588	Sharma G L	2957	Silva H S	5408	Slovsov A M	2530
Schmoker E A	3119	Scurti J	163	Sharp A	2392	Silveira G G da	1106	Small J	797
Schmucker T	2628	Seagraves C H	3266	Sharp L A	4056			Small M C	6447
Schnack B	566	Sealy R O Jr	3406	Shashkin I N	1274	6942		Smallfield P W	1003
Schneider B H	3120-1	Searl A	7309	Shattuck C B	7093	Silvela y de Tordesillas		Smelov S P	1004
Schneider E	3265	Searl B	4018	Shaulman V A	2162	F 735		Smetnev S	3645
Schneider H	33	Searle D	5095	Shavel J Jr	4286	Silversides C R	2551	Smirnov N D	2041
Schnell R	96	Searls E M	4293-5	Shaw A C	7432	Silvestre F	4590	Smith A A	6200
Schnetzler E E	3643	Seaton H E	1546	Shaw A O	3048	Silvestri F	4859	Smith A H	211
Schoch-Bodmer H	524	Séchet J	526	Shaw F R	4589	Silvicultural Conf		1556	
Schoffelmayer V	6363	Secor E C	5305	Shaw H K A See		2517		Smith A K	6366
Schofield W	129	Secor G E	5263	Airy Shaw H K		Simmonds F J	4537	Smith A L	3155
Schofield C R	6364	Secrett F A	2152	Shaw J C	3124	Simmons C F	2038	Smith A M	5767
Scholtes W H	503	Seeborg E F	1	Shaw J K	1161	Simmons D	6656	Smith A W A	1557
Scholz H F	2515	Seedorf W	2034	Shaw R B	5096	Simmons F C	2552-3	Smith C H	2963
Schönbrunner J	279	Seekles L	2956	Shaw R K	5645	Simmons J R	2672	Smith C S	1737
Schonfeld G	70	Seelig R A	6043	Shaw R W	2792	Simmons W M	6245		
Schonopp G	2301	Seeley J G	2035	Shcherbinin I V	3540	Simms B T	2960	4117 6944	
Schoonens J G	6042	Seely H E	2449	Shealy A L	3005-6	Simões J M P	4159	Smith D	736
Schoonmaker F	5484	Seeman G S	5863	3186		Simões T S	4189	Smith D J	4171
Schopmeyer G E	6382	Seetharaman C	2957	Shear G M	732	4634		Smith E G	6945
Schork H	6118	Seibert J E	2153	Shederov S	2037	Simon A	4538	Smith E Y	6448
Schramm G	448-9	Seidel K	5764	Sheehy E J	3344	Simon A L	1682	Smith F	5262
Schreck H	2955	Seifert H F	280	4116 7000		Simon C	5047	Smith F F	451
Schreiber R	2870	Segard C P	5534	Sheel D	7525	Simon J	934	Smith F G Jr	6367
Schröder W	2577-8	Segni A	5291	Sheets O	840	Simon K	4945	Smith F H	7210
Schröghamer-Heimdal		Seiffers S M	3407-8	Sheldon V L	733	Simonpietri R H	2961	Smith F L	570
F	7110	Seixas C	4536	Sheldon W B	6199	6051-2		Smith G	5857
Schropp W	1925	Selby H W	2036	Shelor E	6051-2	3268 3953		Smith G L	4535
Schrötter von	2427	Sell H M	731	Shen H Y	5224	Simons A J	1107	Smith H	4861
Schubert A	6725	Sell O E	403	Shen T H	7546	5120		Smith H D	6727
Schubert B G	28	Sellers A F	3224	Shen W F	5855	Simonsen J L	7547	Smith H H	2808
Schubert G	3342	Selling O H	71	Shepherd S	4796	Simplic F	1683	Smith H N	1005
Schuck C	7411	Sellwood T A	6937	Sheppard F M	6120	Simpson J I	5387	Smith H P	4947
Schuepp W	729	Seltzer R E	1192	Sheppard R	7207	7395		Smith H R	5980
Schuffelen A C	730	Semeniuk G	5813	Sherman S	5766	7311		Smith H W	5583



Item	Item	Item	Item	Item	Item	Item
Solerio P 827	Stapel J C 6677	Stokes D 6947	Sweden Statistiska Centralbyrån 5410	Teale E W 4197		
Somerville J 88	Stapledon Sir R G 3188	Stokes J 5535	Sweetman H L 4303	Teas H J 772		
Sommer H H 5595	Staples M W 1560	Stokstad E L R 3769	Swen E L 5862	Teichman W W 1165		
Sondheimer E 5924	Stapp C 421	Stoll G 5584	Swerpstone H E 5133	Teixeira A W G 3374		
Soper F L 4640	Starcher G C 2043	Stone L S 7441	Swierdlow M 5863	4594		
Sorel R 528	Stark F C Jr 316	Stone P V 4659	Swierstra D 2967	Teixeira E F 1689		
Sørensen H 1685	Stark P Jr 1231	Stone R L 6827	Swift L W 2793	Telang M A 7217		
Sorenson C J 975	Stark S M Jr 5831	Stooss H 6828	Switzerland Eidgenossische Oberzoll-direktion 7352	Teleki A 5910-11		
Sorteberg A 738	Starr R V 4044	Storaasli J P 3396	Swyer G I M 4002	Telford C J 2593		
Souillou A 2659	Stauffer H L 3189	Storer T I 7469	Swynnerton R J M 1688	Telford H S 4307		
South Africa Bd of Trade and Indus 6525	Stauffer R S 2197	Storey T A 2345	Sykes P 7353	Temme J 1870		
South Africa Govt Inform Off 7519	Stauss W 4881	Storgårds T 5642-3	Sylvester E S 4689	Temple A H 6627		
Southerland J 2554	Stawitzke A A 6370	Stormer K 286	Syme P S 5537	Temple V 4800		
South Rhodesia Chief Vet Surgeon 2964	Stead F M 4302	Story C 1060	Symes C B 4304-5	Templer J T 2394		
Southwick F W 5908	Stead H A J 2044	Stofskii V 935	Symon J A 7506	Templeton G S 3998		
Southwick M D 719-20	Stead W H 6575	Stouffer D J 205	Sys K 204	4006		
Southwick R 1194	Stearns L A 4238	Stout A B 1563	Sysa J 3416	Tenant E H 6371		
Souza A O de 1869	Stebbing E P 2343	Stout G L 424	Szaflarski J 3547	Teng C T 4463		
Spadaro J J 6368	Steele T L 2156	Stout W W 2157	Szisiów F 3416	Teng S C 74 174		
Sparapani G C 6286	Steenis C G G J van 166-71	Stoutemans E 1564	Szteyn K 1067	Terekhov P F 3548		
Sparrow F K 739	Steensberg V 2871	Stover D E 3838		Terman G L 2050		
Spaven J 1008	Stefanski W 4592	Stoves J L 5861	Taaning T ed 6489	Termohlen W D 3959		
Speakman J B 5847	Steffek S F 1561	Straps G 1565	Taber E 3841	6450		
Spencer L 5596	Steffen A J 6287	Stratton C L 4118	Tablante N B 6729	Tesch E 6046		
Spencer R D 5550	Steffen K 740	Straub J 742	Tabor G E 3129	Testa E 1807		
Spencer S M 7214	Stehlik V 1058	Strauss J L 2047	Tagle E C 3348	Testoni R 4045		
Spencer W T 4459	Steien O 1011	Strawińska J 4687	Tahir A N 1806	Teternik D M 6254		
Speroni H A 1195	Steiginga C C 3346	Street A G 936	Tahmisian T N 4808	Teunissen G H B 3411		
Spielmann O 4373	Steijn J A van 2769	Streeter O E 1914	Takahashi W N 4149	Teuscher H 75-6		
Spiers R J 5725	Steindl D R L 1054	Streicher E 6626	Talbot R J de C 3270	1101 1808		
Spies P 1009	1738	Strele G 2791	Taliaferro W H 3842	Thaden J F 7100		
Spieth H T 4591	Steinemann F G 2519	Stremme 2523	Tallarico G 744	Tharp M M 7071		
4724	Steiner W 5997	Stroh J 6829	Tallents Sir S 7126	Thatcher L E 1012		
Spiker R L 6201	Steinmetz A H 1108	Strong W J 1281	Tame W J 2217	Thatcher M W 6125		
Spiller D 4196	Steinporsson S 7013	Strucker S 530	Tan H S 6948	Thaxton E L Jr 937		
Spillman R 571	Stephens R M 4797	Strunz H 5349	Tang W S 6949	Thayer R H 3677		
Spitzbarth H 3835	Stephens S T 3347	Stryszak A 3839	Tanganyika Forest Dept 2429	3727		
Spokane Chamber of Com 2660	Stephenson A E 5024	Stuart N W 1109		Thebis R 4882		
Timber Prod Bur 2660	Stephenson E L 3695	Sturkey H P 2048	Tanner F W Jr 6364	4976 5048		
Sprague G W 5597	Stephenson R E 2045-6	Sturdy M 7412	Tapernoux A 4088	Theden G 2610		
Sprague R 283 389	Stepkowski S 2965	Sturkie P D 3840	Taquet J 2450	Theimer W 4883		
Spratt N T Jr 3836	2216	Stutinsky F 3546	2582	Theis E R 6277		
Sprengel A 7312	Sterges A J 1992	Styles A J 2049	Tarantola C 5486	Therman-Suomalainen E 7471		
Sproull R C 2611	Sterling C 529	Subramaniam M K 781	Tardy L 5292	Theurer P 2347		
Spurling M B 2114	Sterling J R 5860	Subramanyam V K 4688	Tarjan A C 462	Thevenot R 5390		
2120	Sterling L de T 580	Suleimenov I S 912	Tarleton C F 7215	Thibault C 4007		
Squadroni G 1279	Stetson A E 6826	Sullivan T E 5306	Tassion 2524	Thieman H W 3132		
Squires G A 3726	Steven H M 2520	Sulzlee C 7528	Tate P 4593	Thiery G 2902		
Sreenivasaya M 6112	Stevens H F 6402	Summers T H 5226	Tatting B 4133	Thiery J 2969		
Sroka K H 4301	Stevens H H 5373	Summers T S 6266	Tauber J 6831	Thies W H 1232		
Staalduine D van 1686	Stevens H M 3993	Sun Y P 4798	Täufel F 5389	1282		
Stabile J N 5620	Stevens J 2344	Surratt A J 5409	Tayeau F 798	Thieulloy E de 4046-7		
Stacey M 6526	2581	Sussman O 2966	Taylor A 6045	Thiry 2633		
Stacey W A 2612	Stevens N E 284	Sutcliffe H M 6060	Taylor B M 731	Thode 2771		
Stadel E L 745	Stevens R B 73	Sutton T S 7418	Taylor B R 3349	Thode F W 1567		
Stadelman W J 3837	Stevens R F 1687	Svanberg O 5771	Taylor C 7216	Tholle J 1568		
Stadler H 1010	Stevenson E C 390	Svärdström K F 6830	Taylor C C 7073	Thomas A 2970		
Staehly J 6124	Stevenson F J 5909	Svenska Färelvsforenningen 4119	Taylor D M 5387	Thomas A R 2158		
Staffe A 3955	Stevenson G S 1059	Svenska Mejeriernas Riksförening 5536	Taylor E L 2968	Thomas B F 5644		
Stafford E M 4458	Stevenson J H F 3439	Sventenius E R S 172-3	Taylor F J 3130	Thomas D G 1569-70		
Stafleu F A 165	3458	Swaffar C D 3128	Taylor G M 1566	Thomas F H 2634		
Stahel G 1805	Stevenson W G 3269	Swain P B 3994	Taylor H 1739	Thomas G M 745		
Stahl B M 5132	Stewart E 4949	Swaminathan K 1868	Taylor J C 3956	Thomas H L 1013		
Stahl C 6488	Stewart J G 391	Swan L C 3190	Taylor J H 73	Thomas P M 938		
Stainsby W J 6369	Stewart R H 979	Swanson C L W 2240	Taylor L W 3646	Thomas S B 5644		
Stall C W 7001	Stewart WS 285	Swarbrick T 743	3688 3957-8	Thomas W D Jr 393-4		
Stamp J T 4087	658 741	Swart G S 6965	Taylor M N 2346	Thomas W P 2159		
Stamp L D 7085	Stice W N 5770	Swartenbroekx J 7529	Taylor M W 6449	Thomasson H L 5726		
Staniland L N 5032	Stickel P W 2456	Sweden Kontrollstyrelsen 7351	Taylor R E 392	Thomé K E 5538		
Stanley C W N 6701	Stieltjes A 2872-3	Sweden Lantbruks-högskolan Husdjursförsök-anstalten 3007	Taylor W L 2770	Thompson A 6451		
Stansby M E 5769	Stiles G 3127		Tchan Y T 1878	Thompson C K 2160		
Stanton R M 4880	Stillger G 214		Tchou YT 479	Thompson D 356		
	Stirling W 1562		Teakle L J H 5227	Thompson E M 5539		
	Stirton A J 6370			Thompson J 3191		
	Stoa T E 911					
	Stodard J A 4990					
	Stoddard D L 313					
	Stoddard L A 4056					
	Stoeckeler J H 2521					
	Stoker M G P 4860					



	Item		Item		Item		Item		Item
Thompson J B	5373	Torres A di P	3961	Turk K L	3192	3354	Valdes de la Paz A		Venezuela Direccion
Thompson N G	4374	7221		Turk L M		1857	4727		de Ganaderea
Thompson R C	572	Torres Filho A E M		Turner A W	4885		Valdes Loma A	2054	Venezuela Ministerio de
746		6833		4952			Valdivia A	1809	Agricultura y Cria
Thompson W R	1014	Torrone A	29	Turner C W	3271		Valdivia A A	2395	Sección de Divulgación
Thomsen L C	5652	Tosic J	4058	3728-9	3845		Valemborg M	235	Agropecuaria
Thomson J W Jr	212	Townsend J C Jr	5228	Turner H J	4802		Valentin J	2165	1811
Thomson L B	6202	Townsend T L	3137	Turner J	6836		Valentin R	4314	Venino P
Thomssen E G	4308	Toxopeus H J	573	Turner R	5869		Valentine G E	2166	2167
Thone F	4595	1112		Turner R R	1016		Valentini M	7095	Venkataratnam L
Thoria L	5864	Tozzi-Condivi N	6950	Turnill L	5099-5100		Vales E	5487	2396
Thormann	3350	Tracy P H	5560	Turrill W B	97	145	Vallance L G	2055	Venkitasubban C S
Thornberry H H	422	5653 5728-30		Turton L C	5540		Valle Garibi E del		1198
Thorne C B	77	Trägarðh I	4460	Tuttle D H	5552		2978		Verdoorn F
Thorne D W	747	Traill D	5868	Tuyeras P	2809		Valledor D T	7429	82
Thorne J B	1111	Trammell L M	6678	Tuzi C	4402		Vallego J	214	Verge J
Thornton H R	5645	Trankner E	5061	Tweed W	6255		Valous J C de	3431	3526
Thornton M K	2051	Trapido H	4311	Tyler L D	6372		4048		Vergnaud H
Thorp F Jr	4141	Trawinski A	2971	Tyler S A	1835		Van Arsdell W B	7549	2058
Thorsrud A	78	Treadway R H	5933	Tyrrell W P	4172		Van Derlinden L	2056	Verhaar G
1571		Treggi G	398	Tysdal H M	5772		Van der Noot G	4146	6376
Thraikill B G	5098	Trelease R D	6453	Tyson R P	3193		Van der Plank J E	289	Vernon J V
Throckmorton R I	2052	Tremier W	6679	Tysser H F	7355		Vandervort V	5010	5393
Thuillier E	2451	Trenary O J	5171				Vanderwaeren R	1691	4089
Thun N	5350	Trenk F B	2220	Ugglas C af	7002		4315		Verona O
Thurston H W Jr	339	2525		Uhlirs J	6619		Van Doren A	6049	215
Tiedjens V A	2053	Trent S C	3412	Ukil A C	1849		Van Doren C A	2197	531 2305-6
Tiemann H D	2690	Tressens F	4198	Ulman P T	4654		Van Eseltine W	5681	5925
Tiffany A	3351	4825		Ulvesli O	2875-6		Van Hout F	3995	1693
Tikhomirov K	3352	Trifone R	7072	Underwood T R	3498		Vanlandingham A H		6130
Tilemans E	395	Tressler D K	6047-8	Ungelenk	5586		3671		4147
Tiller W E	2661	Trincão C	4159	Unglaub H	1017		Van Leeuwen E R		1068
Timberlake P H	4725	Trinkaus J P	3844	Union de Banques			4803		3648
Tims E C	213	Triola P de la	2874	Suisses	6837		Vannini A	6622	3996
Tincker M A H	748	Trivedi R N	6618	Union of So Africa Dept			Vannoy J	7315	4915
7472		Troitskii I	1654	of Agr	6538		7398		2794
Tindall C 2218	3647	Troll H J	574	Union of So Africa			Van Norman R W		1284
4950 5912		Tromp P H M	2348	Natl Bot Gard	80		749		2349
Tinelli R	1871	Tron E	3413	U S S R Glavnoe			Van Ooststroom S J		913
Tingleff N	5049	Trout G M	5646-7	Upravlenie Konserv-			175		4235
6126		Trow-Smith R	828	noi Promyshlennosti			1019-20		7074
Tio M A	655	2161		5391			Van Rensburg H J		5134
Tipton B	5865	Truesdell H W	6834	U S S R Glavnoe			Van Slyke E J	3138	Vietinghoff-Riesch
Tirelli M	4309	Truffaut G	1881	Upravlenie Kholo-			Van Son G	4804	Freiherr von
Tirrell G E	5033	Trujillo Peluffo A		dil'noi Promysh-			Van Tighem C J	7357-8	2774
Tischler W	4310	4312		lennosti 5392			Vanvig A	6584	1114
Tissot I	2219	Tsanev A	6680	United Nations Statis			Van Vlack C H	6129	5731
Tissot P	480	Tsao T W	2717	Comn Sub-Comn on			Van Waes D A	5962	3275
Tkatchenko B	1196	TSarevskii A M	2162	Statis Sampling	7555		Van Wagenen A	6457	5050
Tlusty C	3440	Tscherniak A	2304	U S Bur of Reclam			Van Wezer A	1692	1901
Tobias E B	4566	Tschiritsch	5959	2163			Varadan K S	7414	3213
Tobin B F	6452	Tseng C S	2117	U S Bur of the			Varela G	4412	7473
Tobisch W	287	Tseng T H	2583	Census	5870		Vargas L	4316	Va Agr and Mech Col
Tobler H	5991	TSentral'nafa		U S Bur of the			4559 4597 4641-2		and Polytech Inst Hort
Todaro F	396	Geneticheskaja Plodovo-		Census Indus Div			4665 7230		Dept
1740 1872		lagodnafa Laboratorifa		6373			Varier N S	5835	4643
Todd A C	3843	Imeni I V Michurina		U S Dept of State	7520		Varon H	6375	2785
Todhunter E N	7384	1167		U S Engin School Libr			Vasconcelos A F de		6528
Todoroff A	5585	Tsien Y N	5351	2164			7112		6368
Toenjes W	1211	TSitsin N V	575	United States-Lebanon			Vasquez Humasque A		7474
Tokin B P	79	Tso S S	6835	Agricultural Mission			829 2057		5588 5732
Toledo A A de	4801	Tsrasena Y S	837	6839			Vassogne G	5294	4598
Toledo Lazo A	4120	Tsvetoukine V	1942	U S Selective Serv			Vasudeva R S	290	Vliet M van der
Tollenaar F D	5727	Tu S C	6854	System	6731		452		1573
Tolmachev I A	1283	Tubangui M A	799	U S Tariff Comn	6840		Vaudou G	4375	2529
Tolman B	6730	Tubbs L G	3353	7356			Vaughan R E	4317	4201
Tolov V V	6832	Tucker G J	4121	U S Trotting Assoc			Vaughn J R	417	4599-60
Tomalin T E	1233-4	Tuckey W H	4884	3499			Vauvel J	5541	7475
Tombesi L	2129	Tucumán Estac Expt		Unsworth K	4596		Vazquez E A	2241	Voigt O
Tomey A F	3960	Agr	444	Uppal B N	288		6527		4953
Tomkinson J	4539	Tull C	4141	Upshaw W E	1113		Vázquez I	3500	2530
Tomlinson J W	5121	Tullgren A	4199	Urrutia A	6951		Vazquez Altamirano J		5135
Tomson C K	3133-5	4461		Usuelli F	2877-8		2879		2059
Tondou P	1197	Tulstrup N P	2526	2976			Vazquez Bello L	1810	4090
4832		Tunblad B	4313	Uterharck F W	2635		Veal M P	646	2810
Toner R K	5866	Tung T H	7223				Vecht J van der	4318	4376-7
Toole E R	397	Turcotte A L	6514	Vaarama A	576		Vedrenne J	2584	6952
Tootell R B	7219	Turcotte F	789	Vacin E F	1572		Veen A G van	5229	3730
Topolanski E M	5060	Turégano F F	3962	Vagneur J D	2977		Veenbaas A	7430	Vonsattel M
Toppan L C	7220	Turek P J	3636	Vail B	5961		Veenstra R H	3274	Vondeling A
Tormey J L	3136	Turezkaya R Kh	680	5992			Velichkin P A	3549	4376-7
Torres Filho A	4951	Turina B	1015	Vail G E	6418		Velu H	4049	6952
5867 6576 7222		Turk F A	4462	Vaitsman J	3272-3		Ven R van der	1067	4837
7354							6544		2282



	Item		Item		Item		Item		Item	
Votte A D	2531	4805	Ward G W	2980	Wellington W G	4806	Wiedijk K	2557	Wilson S G	4160
Vrain G	2673		3849		Wellm J	5574	Wiegand E H	6843	4464	
Vriend S	291		Ward J D U	2397	Wellman R H	339	Wieman J S	1119	Wilson W K	4021
Vries D M DE	481		Ward K Jr	5873	Wellmann F K	7233	Wiener S	5445	Wilson W O	3967
Vyshelesskij S N	2979		Ward W C	2586	Wells C	1022	Wierzuchowski M	3416	Wilster G H	5737-8
			Ward W G	2555	Wells J	1579	Wieser L	5544	Windham E	5620
Wachs E F	3745		Ward W V	7128	Wells J B	1580	Wiggins M C	7517	Windham S L	1696
Wade G C	292		Wardle N J	4888	Wells J S	1116	Wigglesworth V B	4604	Windisch J	7316
399			Ware G W	7156	Wells K M	5354	Wightman R	4957	Wingard S B	3733
Wadleigh C H	751		Ware H G	3965	Welsh M F	453	Wijk A van	1582	Winkler H	3195
Wadlow T J	2083		Warner C E	6685	Wenck F	1168	Wilckens A	2350	Winkler W O	5267
Wagenius A	5230		Warner C N	4770	Wendelin J	177	Wilcox F R	6844	Winner E B	3968
Wager V A	400		Warren C C	6460	Wene G P	4543	3759			
1199			Warren D C	4861	Weng C Y	5231	Wilcox R H	4958		
Wagg J W B	532		Warren W H	1578	Wenner B J	4739	Wilcox R S	5052		
Wagner M	3709		Warsi S A	1803	Wensleydale Longwool		Wild A S	297	Winnigstedt	3008
Wagner R P	577		Warwick E J	4129	Sheep Breeders' Assoc	4050	Wild H	1745	Winqvist G	2881
Wagnon A	5872		Washburn D	5489	Wentworth E N	3140	Wilde E I	1583	Winter A R	3774
Wagnon K A	3277		Washburn R G	3194	Wentworth W A	5598	Wilde M H	534	Winterberg S H	1992
Waibel L	83		Wash State Col Ext Serv		Wentz	1695	Wilderman E de	1815	Winters L M	3145
Wain R L	401		3358		Werneburg H	7075	Wilder O H M	6215	4130	
Waite R A	2283		Washko J B	2003	Wernimont K	6954	Wilflinger H	758	Winters S R	3970
Wakefield H S	5617		Wassink E C	753-5	Werth A J	2063	Wilgus H S	3732	4325 6135	
Wakeley P C	2532		Watel M	3850	Wesson L G Jr	3414	Wilhelm F	405-8	Winther B E	7076
Wakely W	3909		Waters H	1741	West G P	3415	Wilke F	3442	Wintrobe M M	4133
Waksman S A	39		Watkins G	6686-7	West K	1117	3450		Wipprecht R	4232
Walbaum P	1694		Watkins J M	1021	West P	1744	Wilkening M C	3668	4849	
Walbridge H F	2060		Watkins T C	4834	West W J	5018	Wilkie D R	6956	Wirth E D	4404
Walch G J	5122		Watkins T D Jr	5874	Westcott C	294-5	Wilkins C S	6732	Wiseman J	760
Wald G	7508		Watson D J	687	Westcott W C Jr		Wilkinson E	5876	Wisniewski T F	5600
Walkden A	1574		Watson I	1742-3	5963		Wilkinson J F	6957	Wister J C	1588-91
Walker C B	5017		Watson J A S	7509	Westling L L	5396	Wilkinson P R	4321	Wit H C D de	7510
5136			Watson J F	5983	Weston W A R D	392	Wille J E	4322	Withner C L	1592
Walker C F	1575		Watt J A	4087	Wetherell G	7113	Williams A E	4323	Witt P N	4605
Walker C R	2585		Watt J M	4379	Wexelsen H	1023	Williams B	6134	Witte A	4690
4378			Watterson R L	3764	Weybrew J A	679	Williams D B	6958	Wittern K	3362
Walker F S	2775		Watts P S	5589	Weyer r	4862	Williams D E	3705	Witteveen H J	5773
Walker H B	4954-5		Watzdorf F von	3280	Wezer A van	2064	Williams D L	914	Wittmann R	2065
Walker H R	2307		Watzl O	4540	Whaley F R	339	Williams D W	4324	Wittock M	1593
Walker J C	200		4541-2		Wheeler B	4602	Williams E O	1584	Witzel S A	5102
416			Wauchek W	3966	Wheeler F	6461	Williams G A	3144	Wodera H	2452
Walker T W	2061		Weaver J E	482	Wheeler R	3898	Williams H H	7399	Wohlbiel W	7431
Walker W R	6131		Webb Mrs E R	4403	Wheeler R s	3697	Williams J J	5232	Wokes F	7432
Walker W W	4149		Webb L J	800	3731 3851		Williams K	5490	Wolf	2811
Walfok C	1076		Webb W T	5913	Whistler R L	6133	Williams K A	6379	Wolf B	2066
Wall N J	6625		Webber W T	5913	Whitby H	6585	Williams K T	5235	Wolf G M	6471
Wallace B	4601		Weber A	234	Whitcomb G	3141	Williams O M	4620	Wolf L	6136
Wallace G B	293		Weber A F	3281	Whitcomb W D	225	Williams P H	409	Wolf R F	6472
423 1200			Weber G R	5394	296 4320		Willis A L	1835	Wolff O	5397
Wallace G F	2225		Weber N A	4728	White A H	5654	Willison R S	454	6050	
Wallace L H	6288		Webster B	5296	White D J B	533	Willits B	5736	Wolf from M L	6493
6459			Webster B S	1768	White E D	5875	Willits C O	5258	Wolstenholme D A	2430
Wallace L R	4059		Webster C C	1813-14	White E L	5543	5264		Wood E B A	1594
Wallace M E	3514		Webster R	4972	White J C	5734	Willman J P	4060	Wood F W	5645
Wallace M M	293		Weckel K G	5733	White J W	84	Willis J M	1201	Wood G B	6398
402			Wecter D	6841	White L M	5235	Willson F S	3360	Wood H E	7234
Wallace R H	4549		Weeks W F	7232	5263		Wilmot R J	1585	Wood I D	2169
Wallace W D	5411		Weerd E de	4380	White L W	98	Wilsie C P	1025	Wood J H	2170
Wallenfeldt E	5648		Wegener J B	6013	White M A	6688	Wilson B	3501	Wood R C	7477
Wallerstein J S	5488		Wegner H	5395	White M J D	4603	Wilson C M	3650	Wood R R	2067
Walmsley M H	1576		Weibel R O	1044	White W T	2880	Wilson D B	4630	Wood W G	1595
Walsh J C	2062		Weigl R	3476	Whitehall W L	6462	Wilson D N	6702	Woodhouse C A	2981
Walsh R M	5353		Weigold G W	5618	Whitehead E L	1118	Wilson DR	4092	Woodhouse W W Jr	
Walter E M	752		Weil J K	6370	Whitehead J A	3143	Wilson E	5101	980 1026-7	
Walter H H	3449		Weimer J L	403	Whitehead S B	463	Wilson E B	5019	Woodman H E	4148
Walter J M	313		Weinmann H	756-7	1169		Wilson F C	1120-1	Woodmansee C W	5968
Walton A	3278		Weinstein S	6502	Whiting F	5568	1586		Woodroffe F B	1596-7
Wamble A C	6377		Weinstock I	3203	Whitlow S	831	Wilson G F	464	Woodroof J G	6051-2
Wampler R H	2636		Weiss L	6378	Whitney D J	1024	Wilson H V	1587	Woods B	6380
Wandell W N	7476		Weiss D	5051	Whitten H	404	Wilson J	1285	Woods C N	2883
Wandokanty F	3545		Weiss J N	6966	Whitten L K	4091	Wilson J B	5265-6	Woods G M	4149
Wang H	3848		Welch A W	340	Whittle T E	3649	Wilson J E	3852	Woods J B	2786
Wang K C	4463		Welch C L	4956	Whitwell J C	5866	Wilson J H	455-6	Woodson H P	6733
Wann F B	747		Welch H	4122	Whyte R O	6955	Wilson J K	759	Woodward H R	1746
Wannop A R	6953		Welch J B	2637	Wibiral E	1581	2882		Woodward W B W	
Wanstall G	5295		Welch W F	5615	Wicharz M	6842	Wilson J L	3361	3734	
Ward A H	3139		5619		Wichers H E	5114	6206		Woodworth C M	867-70
3279			Weldon N W	6530	Wickard C R	5165	Wilson J O	2351	Woodyard O C	2617
Ward D J	1812		Welle A	5542	Wickenden L	1882	Wilson J R	7400	Wool Indus Res	
Ward F K	176		Wellensiek S J	1115	Widmann H	5662	Wilson K	7014	Assoc Leeds	5877
1577			Wellington J	2168	Wieckers S G	5599	Wilson R A	636		
					5735					



	Item		Item		Item		Item		Item
Woolman J	465	Wyss H R	5053	Yang E C	7360	Zanoni G	3972	Zimmerman P W	647
Worcester P F	6463			Yanzón R N A	5545	Zappe H A	3502	762	
Worcester W W	3853			Yao H H	7361	Zart A	5879	Zimmermann G	5776
Worthen E L	1918	Xaruba Buldó E	6845	Yeaman A F	2172	Zasada Z A	2718	Zimmermann G F	
Worthing D	5774	Ximenez de Embun J		5964		Zavala Bustos J	6847	5177	
Wotling H	2843	2398		Yenko F M	6492	Zebracki A	4161	Zito F	6139
Wressell H B	4807			Yohe R S	2173	Zeeuw H de	5735	6848	
Wright E	5307	Young P A	5743	3651		Zeldner J	3418	Zoerb E	3147
Wright J E	216	Young R E	796	Yothers M A	4692	Zeleny L	6138	Zolotarev N A	3551
Wright P H 1028	1170	Young W C	3417	Young J B	2003	Zetterberg O	5412	Zucchini M	6529
1598 1816 2084		Youngken H W	535	Young M H	1602	Zhikharev A A	2982	Zucher H	3973
4381		801		Young M T	4544	Zhukov S V	1209	Zulueta M M de	5355
Wright R C	6053	Yorgia F J	6054			Zia S H	3574	Zumbro P B	3652-3
Wright W E	1599	Ysita E	5878	Zach L	1603	Ziebarth F	578	3974	
Wright W Q	2171	Yu F P	5233	Zafanchkovskii I F		Ziegelmayer W	1699	Zurth- Ravensburg E	
Wu C N	5491	Yu H	1873			Ziegenhein W	3146	3654	
Wurceldorf Warden J	566	Yu H H	6545	Zakharova E I	1286	Ziemba J V	5398	Zuydam D M	3505
Wygodzinsky P	4691	Yuill J L	761	Zande R V D	5986	Zienkiewicz H	5880	Zvjagin M	7478
Wyman D	1600-1	Yager C M	6137	Zandstra E	85	Zieske R	3441	Zwald A	2556
Wynn J	1697-8	Yager N	5757	Zannoni I	2174	Zimmer R P	3660	Zweigelt F	1171
Wynne-Edwards J C				6846		Zimmerman E C	4200	Zwerger	410
7086						Zimmerman H	5775	Zwieten M van	3283
								Zwilettsch F	4093

# CORRECTIONS

The citation to item 66655 in October 1948 issue, should read Biol. Soc. Wash. Proc. 61: 93-96. June 16, 1948.

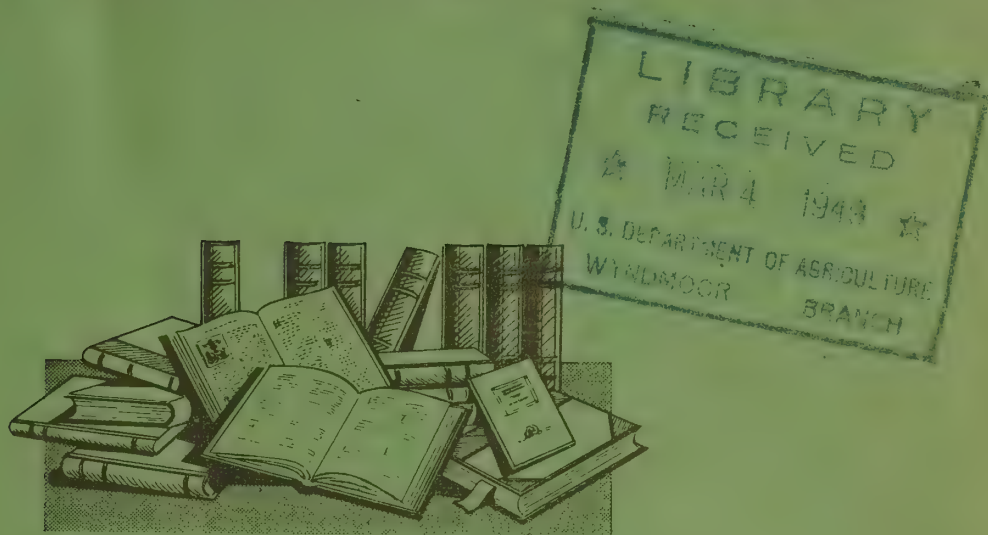
The following items were omitted through error from the cumulative subject index to volume 12, December 1948. These items should be inserted on p. 315 between Plants and Plastics.

	Item
Plantain, flaxseed	11820
a36716	
Plasmochin	39634
Plasmodiophora brassicae	
on Cruciferae	22847
Plasmodiophoraceae	63093
Plasmodium	10453
Plasmodium cathemerium	
in ducks	39634 52120
Plasmodium falciparum	33459
Plasmodium gallinaceum	
9516 9555 10470 25557	
32561 39580 39613 59856	
66045 66066 66873	
transmission	26402
Plasmodium juxtannucleare	
9516	
Plasmodium lophurae	
in ducks	17467 a39139
Plasmodium vivax	66867
66891	
Plasmopara viticola	70354
on grape	200 22831
29397 a36491 70121	
Plaster	
as fertilizer	51089



476  
6471  
C3

# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 13 of the Bibliography of Agriculture will appear as number 12 of volume 13, the issue of December 1949.

United States Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications, is followed in this publication with the exception of the following: B.—Bulletin; C.—Circular; J.—Journal; P.—Publication; Q.—Quarterly; U.—University; U. S. D. A.—United States Department of Agriculture; Ybk.—Yearbook; Z.—Zeitschrift.

Items marked with an asterisk (\*) are ordinarily available in microfilm or photoprint only. Items marked with two asterisks (\*\*) have not been verified.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library at the following prices:

#### **MICROFILMS:**

Periodical Articles.—A flat charge of 50 cents for any single article, from any single volume of a periodical.

Books and Serial Publications.—50 cents for each 50 pages or fraction thereof.

#### **PHOTOPRINTS:**

50 cents for each 5 pages of text or fraction thereof.



## UNITED STATES DEPARTMENT OF AGRICULTURE

## LIBRARY

## BIBLIOGRAPHY OF AGRICULTURE

Vol. 13

February 1949  
Items 7557-16295

No. 2

## CONTENTS

	Item		Item		Item
Plant Science	7557-9684	Materials for Soil Improvement		Veterinary Medicine	10945
Systematic and Geographic			10179	Miscellaneous	11078
Botany	7634	Primary Materials	10188	Cattle	11100
Spermatophytes	7642	Secondary and Minor Element		Breeds and Breeding	11100
Pteridophytes	7693	Materials	10207	Feeds and Feeding	11192
Algae	7694	Mixed Fertilizers and Fertilizer		Veterinary Medicine	11251
Fungi and Lichens	7702	Technology	10210	Miscellaneous	11373
Pathology	7734	Fertilizer Statistics	10216	Dogs and Cats	11430
Fungus Diseases	7840	Mineral Soil Amendments	10227	Breeds and Breeding	11430
Bacterial Diseases	7963	Manures and Composts	10232	Feeds and Feeding	11446
Virus Diseases	7977	Forestry	10257-10851	Veterinary Medicine	11447
Nematodes	8018	Economics and Policy	10257	Miscellaneous	11497
Ecology	8029	Legislation	10304	Fur Animals - Pen Raised	11504
Morphology, Anatomy, and		Description and Resources	10308	Breeds and Breeding	11504
Cytology	8057	Individual Genera	10345	Feeds and Feeding	11516
Genetics	8106	Forest Administration and		Veterinary Medicine	11522
Physiology	8160	Management	10373	Miscellaneous	11537
Biochemistry	8393	Farm Woodlands	10406	Horses and Mules	11555
Field Crops	8426	Mensuration	10427	Breeds and Breeding	11555
Cereals	8457	Forest Protection and Damage		Veterinary Medicine	11589
Fiber Crops	8548		10444	Miscellaneous	11641
Forage and Grasses	8580	Fire	10446	Laboratory Animals, Small	11657
Oil Crops	8664	Meteorological Injuries	10469	Breeds and Breeding	11657
Sugar Crops	8679	Silviculture	10472	Miscellaneous	11659
Tobacco	8696	Lumbering	10554	Poultry	11660
Horticultural Crops	8705	Equipment	10554	Breeds and Breeding	11660
Fruits	8767	Logging	10568	Feeds and Feeding	11733
Citrus and Subtropical	8839	Lumber Industry	10586	Veterinary Medicine	11798
Deciduous	8863	Sawmills	10619	Miscellaneous	11901
Small	8936	Wood Technology	10625	Rabbits	11992
Nuts	9009	Properties and Structures	10638	Breeds and Breeding	11992
Shade Trees and Ornamental		Preservative Treatment	10657	Feeds and Feeding	12019
Plants	9020	Seasoning, Conditioning, and		Veterinary Medicine	12022
Vegetables	9390	Finishing	10668	Miscellaneous	12033
Weeds and Poisonous Plants	9525	Forest Products	10685	Sheep and Goats	12035
Miscellaneous	9608	Building Construction	10715	Breeds and Breeding	12035
Soils and Fertilizers	9685-10256	Charcoal	10720	Feeds and Feeding	12062
Soil Science	9685	Containers	10723	Veterinary Medicine	12074
Soil Physics	9700	Cork	10726	Miscellaneous	12100
Soil Chemistry and Mineralogy		Furniture	10729	Swine	12121
	9716	Naval Stores	10732	Breeds and Breeding	12121
Soil Biology	9749	Pulp and Paper	10751	Feeds and Feeding	12140
Soil-Plant-Animal Relation-		Veneers, Plywood, and Adhesives		Veterinary Medicine	12172
ships	9763		10774	Miscellaneous	12220
Soil Genesis, Formation,		Wood as Fuel	10792	Entomology	12250-13075
Classification, and Mapping	9773	Miscellaneous	10793	General - Economic	12280
Soil Management	9815	Education	10826	Apiculture and Apis Mellifera	
Soil Fertility	9831	Forest Engineering	10845		12406
Tilth and Tillage	9979	Forest Influences	10846	Colony Management	12510
Drainage, Irrigation, Water		Wildlife	10851	Arachnida, etc.	12547
Supply, etc.	9993	Animal Industry	10852-12249	Coleoptera	12590
Erosion and Control	10092	Breeds and Breeding	10852	Diptera	12690
Sanitation	10168	Feeds and Feeding	10878	Culicidae	12765
				Hemiptera	12803

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Hymenoptera	12863	Prices, etc.	13609	Inflation	15193
Lepidoptera	12912	Processing and Storage	13639	Insurance	15195
Orthoptera	13008	Statistics	13712	Taxation	15204
Sericulture and the Silkworm	13031	Beverages and Condiments	13732	Agricultural Labor and Wages	15234
Smaller Orders	13039	Dairy Products	13837	Agriculture - Situation, Policies	15275
Agricultural Engineering	13076-	Analysis and Composition	13900	and Programs	15436
	13463	Consumption, etc.	13942	Subsidies	15439
General and Miscellaneous	13076	Distribution, etc.	13949	Cost and Standard of Living	15452
Machines and Equipment	13108	Grading, etc.	13977	Farm Management and Land	15554
Animal Husbandry	13192	Packing and Packaging	14008	Economics	15565
Cultivation and Tillage	13223	Prices, etc.	14011	Bookkeeping and Records	15613
Fertilizer and Seed Distributors	13236	Processing and Storage	14027	Costs and Returns	15620
	13236	Statistics	14089	Land Settlement and Colonization	15691
Harvesting	13240	Feed and Forage Crops	14091	Land Tenure	15702
Land Clearing	13262	Fibers and Textiles	14130	Land Utilization	15708
Processing Equipment Used on	13265	Fruits, Vegetables, and Nuts	14272	Land Values, etc.	15723
the Farm	13265	Analysis and Composition	14343	Population	15739
Repair, Maintenance, and Con-	13292	Consumption, etc.	14357	Institutions	15744
struction	13292	Distribution, etc.	14366	Leadership	15882
Spraying and Dusting	13301	Grading, etc.	14403	Rural Organizations and	15883
Vehicles	13312	Packing and Packaging	14419	Movements	15991
Structures and Rural Housing	13344	Prices, etc.	14430	Rural Social Psychology	15998
Animal Shelters and Service	13357	Processing and Storage	14437	Trade, Foreign and International	16057-
Buildings	13390	Statistics	14527	Food and Human Nutrition	16137
Farmhouses and Farmsteads	13396	Grain and Grain Products	14532	Food Habits	16104
	13412	Honey and Beeswax	14652	Nutritive and Vitamin Content	16106
Greenhouses and Plant Service	13417	Livestock and Livestock Products	14668	Miscellaneous	16138-16295
Buildings	13423	Analysis and Composition	14748	History and Biography	16197
Materials and Methods	13428	Distribution, etc.	14759	Home Management	16229
Storage Structures	13428	Grading, etc.	14784	International Relations	16243
Walls and Fences	13428	Packing and Packaging	14798	Meteorology	16252
Utilities	13428	Prices, etc.	14802	Research	16266
Electricity and Electrification	13444	Processing and Storage	14813	Statistics	16291
	13444	Statistics	14838	U. S. D. A. Publications	p. 182
Heating, Lighting, and Radiation	13447	Oils and Oilseeds	14843	State Agr. Expt. Sta. Publications	p. 187
Power Plants, Motors and	13453	Poultry and Poultry Products	14916	State Agr. Ext. Serv. Publications	p. 190
Engines	13453	Rubber and Rubber Substitutes	14988	AUTHOR INDEX	p. 193
Water Supply	13453	Seeds	14994		
Agricultural Products: Processing,	13464-	Sugar and Sirups	15032		
Distribution, and Statistics	15123	Tobacco	15086		
	15123	Miscellaneous Products	15106		
Analysis and Composition	13503	Agricultural Economics and Rural	15124-16056		
Consumption, etc.	13524	Sociology	15151		
Distribution, etc.	13534	Agricultural Finance	15163		
Grading, etc.	13587	Credit	15187		
Packing and Packaging	13605	Income	15187		

Published with the Approval of the Director of the Bureau of the Budget.



## PLANT SCIENCE

## GENERAL

- 7557 ANCHEL, M. Antibiotic substances from Basidiomycetes III. *Coprinus similis* and *Lentinus degener*. *Natl. Acad. Sci. Proc.* 34: 498-502. Nov. 1948. 500 N21P
- 7558 ANDREWS, D. M. Desert fiesta. *Green Thumb* 5(9): 5-9. Sept. 1948. 80 G82  
Vegetation.
- 7559 ANDREWS, H. N., JR. Some evolutionary trends in the pteridosperms. *Bot. Gaz.* 110: 13-31. Ref. Sept. 1948. 450 B652
- 7560 ARNOLD, C. A. Classification of gymnosperms from the viewpoint of paleobotany. *Bot. Gaz.* 110: 2-12. Sept. 1948. 450 B652
- 7561 AUDET, L. P. *Symphonie en vert et jaune*. *Paysana* 2(7): 4-5. Sept. 1948. 7 P29  
Vegetation in Quebec.
- 7562 BANKS, W. The elder [*Sambucus*]. *Nature Lover* 5: 404-406. Sept. 1948. 410 N218
- 7563 BASTOS, A. DE M. The world's major work is on botany. (In Portuguese.) *Brincar e Aprender* 7(28): 25. Jan./Mar. 1948. 275.249 B77  
On the Flora Brasiliensis.
- 7564 BASU, U. P. In search of antibiotics. *Sci. and Cult.* 14: 122-123. Sept. 1948. 475 Sci24
- 7565 BLINOVSKII, K. V. Turkmenian Botanical Garden. (In Russian.) *Priroda* 37(8): 88-90. Aug. 1948. 410 P933
- 7566 BOEHNE, C. Strahlantrieb in der natur. *Kosmos* 43: 339-340. Oct. 1947. 474 K842  
Includes *Momordica elaterium*.
- 7567 BROMLEY, S. W. Bow trees. *Trees* [Cleveland] 9: 25. Nov./Dec. 1948. 99.8 W52  
Evergreens with bowed trunk.
- 7568 CAIN, S. A., and SLATER, J. V. Palynological studies at Sodon Lake, Michigan, III. The sequence of pollen spectra, profile I. *Ecology* 29: 492-500. Ref. Oct. 1948. 410 Ec7
- 7569 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Seasons for California crops and livestock, by G. B. Alcorn. Berkeley, 1948. 16 p. 275.2 C12Sec
- 7570 CAPPELLI, E. Investigations on the action of Roentgen rays and radium on antibiotic substances produced by *Penicillium notatum*. (In Italian.) *Soc. Ital. di Biol. Sper. B.* 23: 1227-1228. Dec. 1947. 442.8 So12
- 7571 CAPPELLI, E. Investigations of the action of Roentgen rays and radium on cultures of *Penicillium notatum* with reference to the production of antibiotic substances. (In Italian.) *Soc. Ital. di Biol. Sper. B.* 23: 1225-1227. Dec. 1947. 442.8 So12
- 7572 CARTER, W. L. The Dupont Rose MSS. *My Gard.* 37: 379-386. Oct. 1948. 80 M995
- 7573 CHINOY, J. J. A new colorimetric method for the determination of starch in leaves and woody tissues of plants. *Indian J. Agr. Sci.* 17: 261-268. Ref. Oct. 1947. 22 Ag831
- 7574 CLARK, R. B. Holly Arboretum. *Parks & Recreation* 31: 648-650. Nov. 1948. 98.8 P23  
Rutgers University.
- 7575 COINER, M. S. Planting and harvesting dates in Latin America. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 32, 36 p. Oct. 1948. 1.943 F763
- 7576 CONNELL, E. A. Connecticut courts and trees. *Trees* [Cleveland] 9: 8, 22. Nov./Dec. 1948. 99.8 W52
- 7577 COQUILLAT. Un mode de présentation des comptes rendus d'excursions (herborisation au Pilat). *Soc. Linn. de Lyon. B. Mens.* 16: 124-126. June 1947. 505 L992B
- 7578 COTTAM, G., and CURTIS, J. T. The use of the punched card method in phytosociological research. *Ecology* 29: 516-519. Ref. Oct. 1948. 410 Ec7
- 7579 DUVERNOY, M. Note sur le "Clitocybe dealbata." *Soc. Linn. de Lyon. B. Mens.* 16: 13. Jan. 1947. 505 L992B
- 7580 DUVERNOY, M. A propos de la toxicité pour le chat de "Clitocybe dealbata." *Soc. Linn. de Lyon. B. Mens.* 16: 30-31. Feb. 1947. 505 L992B
- 7581 ENGLISH, E. H. Quest for *Larix lyallii*. *Roy. Hort. Soc. J.* 73: 384-388. Nov. 1948. 84 L84J
- 7582 EVOLUTION and classification of gymnosperms. A symposium. *Bot. Gaz.* 110: 1-2. Sept. 1948. 450 B652  
Preface by T. Just.
- 7583 EYSTER, W. H. Botany for the gardener (13). *Organic Gard.* 13(6): 26-29. Dec. 1948. 56.8 Or3
- 7584 FIRBAS, F. Über das verhalten von *Artemisia* in einigen pollendiagrammen. *Biol. Zentbl.* 67: 17-22. 1948. 442.8 B523  
English, French and Russian summaries.
- 7585 FIRBAS, F., and SAGROMSKY, H. Untersuchungen über die grösse des jährlichen pollenniederschlags vom gesichtspunkt der stoffproduktion. *Biol. Zentbl.* 66: 129-140. Ref. 1947. 442.8 B523
- 7586 FONTAINE, T. D., and others. Isolation and partial characterization of crystalline tomatine, an antibiotic agent from the tomato plant. *Arch. Biochem.* 18: 467-475. Sept. 1948. 381 Ar2  
G. W. Irving, Jr., R. Ma, J. B. Poole, and S. P. Doolittle, joint authors.
- 7587 GARESE, P. El "Boyce Thompson Institute for Plant Research." IDIA; Inform. de Invest. Agr. 1(9): 4-6. Sept. 1948. 9 Id3
- 7588 GATLEY, P. Swiss flower-hunt. *My Gard.* 37: 516-518. Nov. 1948. 80 M995
- 7589 HARRIS, T. M. Notes on the Jurassic flora of Yorkshire, 37-39. *Ann. & Mag. Nat. Hist.*, ser. 12, 1: 181-213. Ref. Mar. 1948. 410 An77  
37. *Todites princeps* (Presl), Gothan. 38. *Ginkgo huttoni* (Sternbert), Herr. 39. *Ginkgo digitata* (Brongniart), Heer.
- 7590 HEISE, H. A., and HEISE, E. R. The distribution of ragweed pollen and *Alternaria* spores in the upper atmosphere. *J. Allergy* 19: 403-407. Nov. 1948. 448.8 J8236
- 7591 HUME, E. P. Puerto Rico's Christmas tree. *N. Y. Bot. Gard. J.* 49: 284-287. Dec. 1948. 451 N48J  
*Randia aculeata*.
- 7592 JAEGER, P., and SCHNELL, R. Quelques herborisations dans la presqu'île du Cap Vert. *Notes Africaines* 35: 19-23. July 1947. 475 N84
- 7593 JESSEN, K. *Rhododendron ponticum* L. in the Irish inter-glacial flora. *Irish Nat. J.* 9: 174-175. July 1948. 410 Ir42
- 7594 JOSSERAND, M. Encore un mot sur la sensibilité du chat à "Clitocybe dealbata." *Soc. Linn. de Lyon. B. Mens.* 16: 79. Apr. 1947. 505 L992B
- 7595 JUST, T. Gymnosperms and the origin of angiosperms. *Bot. Gaz.* 110: 91-103. Ref. Sept. 1948. 450 B652
- 7596 KUCHLER, A. W. A new vegetation map of Manchuria. *Ecology* 29: 513-516. Ref. Oct. 1948. 410 Ec7
- 7597 LAM, H. J. A new system of the Cormophyta. *Blumea* 6: 282-289. Ref. 1947/48. 450 B62  
Includes paleobotany.
- 7598 LEBEDEV, D. V. Marine microflora as a source of antibiotics. (In Russian.) *Priroda* 37(7): 54-55. July 1948. 410 P933
- 7599 LEBEDEV, D. V. New data on the antibiotic action of lichenic acids [usnic and vulpic]. (In Russian.) *Priroda* 37(8): 53. Aug. 1948. 410 P933
- 7600 LEBEDEV, D. V. Search for antibiotics in higher plants. (In Russian.) *Priroda* 37(6): 62-63. Ref. June 1948. 410 P933
- 7601 LEONT'EV, I. F. Plant hormones as antibiotics. (In Russian.) *Priroda* 37(8): 53-54. Aug. 1948. 410 P933
- 7602 LINDSEY, A. A. Terron vegetation in New Mexico. *Ecology* 29: 470-478. Oct. 1948. 410 Ec7
- 7603 LISHANSKII, I. S. Antibiotics from burdock and thistle. (In Russian.) *Priroda* 37(6): 61-62. June 1948. 410 P933
- 7604 MÉRIT, J. Echos de notre sortie botanique en Queyras (Hautes-Alpes) 19, 20, 21 et 22 juillet 1947. *Soc. Linn. de Lyon. B. Mens.* 16: 197. Dec. 1947. 505 L992B
- 7605 MITCHELL, G. F. Late-glacial deposits in Berwickshire. *New Phytol.* 47: 262-264. Oct. 1948. 450 N42
- 7606 MONTREAL. BOTANICAL GARDEN. Visit the Montreal Botanical Garden. Montreal, Dept. of Public Works, 1948. 6 p.-folder. 451.1 M76Ve
- 7607 NETIEN, G. Etude sur la flore du massif des Aiguilles d'Arves. *Soc. Linn. de Lyon. B. Mens.* 16: 153-157, 167-169. Ref. Sept.-Oct. 1947. 505 L992B



- 7608 NEW HAMPSHIRE. STATE DEPT. OF HEALTH. DIV. OF INDUSTRIAL HYGIENE. Hayfever studies in New Hampshire, 1947. Concord, 1948. 59 p. 448.9 N452
- 7609 NILSSON, T. On the application of the Scanlan post-glacial zone system to Danish pollen-diagrams. Danske Vidensk. Selsk. Biol. Skr. 5(5), 53 p. Ref. 1948. 442.9 D23B
- 7610 NOLAN, J. F. A July hike to Ostrander Lake. Yosemite Nature Notes 27: 117-120. Oct. 1948. 409.6 Y8  
Vegetation.
- 7611 OPPENHEIMER, H. R. Natural reproduction of exotic plants in Palestine. Palestine J. Bot., Rehovot Ser. 6: 14-19. Dec. 1947. 450 P172
- 7612 POTZGER, J. E. Phantom forests. School Sci. & Math. 48: 509-516. Oct. 1948. 470 Sch64  
Paleobotany, pollen analysis.
- 7613 RAGHUNANDANA RAO, R. Utilization of wheat bran for streptomycin production by *S. griseus*. Nature [London] 162: 820. Nov. 20, 1948. 472 N21
- 7614 ROCHE, P. Présence d'une *Fittonia* dans le Bathonien de Saint-Claude (Jura). Soc. Linn. de Lyon. B. Mens. 16: 146-147. Sept. 1947. 505 L992B
- 7615 ROUSSEAU, J., and others. Protégeons nos arbres. Montreal. Jard. Bot. B. 4, 16 p. 1947. 451 M765  
J. P. Gariépy, R. Gascon, J. R. Dufresne, and R. Goudreault, joint authors.
- 7616 SAHNI, B. The Pentoxyleae: a new group of Jurassic gymnosperms from the Rajmahal Hills of India. Indian silicified plants no. 5. Bot. Gaz. 110: 47-80. Ref. Sept. 1948. 450 B652
- 7617 SMITH, N. F. Michigan trees worth knowing: Balm-of-Gilead, *Populus balsamifera*, L. Mich. Conserv. 17(12): 10. Dec. 1948. 279.9 M582
- 7618 SPORNE, K. R. A note on a rapid clearing technique of wide application. New Phytol. 47: 290-291. Oct. 1948. 450 N42
- 7619 STRANGE, H. G. L. We must grow bigger and better seed crops. Seed World 63(9): 12, 14. Nov. 7, 1948. 61.8 Se52
- 7620 STROMAN, G. N. A rolling table holder for use in the determination of certain characters in the cotton breeding program. Amer. Soc. Agron. J. 40: 1044-1045. Nov. 1948. 4 Am34P
- 7621 STYER, J. F. Plant registration. Parks & Recreation 31: 650-653. Nov. 1948. 98.8 P23
- 7622 TEDESCHI, G. G. On the antiprotozoal activity of a pigment extracted from *Aspergillus niger*. II. (In Italian.) Soc. Ital. di Biol. Sper. B. 23: 1212-1213. Dec. 1947. 442.8 So12
- 7623 TEDESCHI, G. G. On the pigments of *Aspergillus niger* endowed with antiprotozoal activity. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 241-242. Mar. 1948. 442.8 So12
- 7624 TERLIKOWSKI, F., and FILUTOWICZ, A. On possibility of simplifying the Neubauer's method. (In Polish.) Roczn. Nauk Rolnicz. i Leśnych 50: 12-30. 1948. 20.5 R59  
English summary.  
Technique for plant physiology.
- 7625 TILDESLEY, W. Some botanical notes, 1948. Victoria Nat. 5: 44-46. Oct. 1948. 410 V662  
Vegetation.
- 7626 TROUVELOT, B. Les ingénieurs agronomes et la recherche scientifique (génétique, pathologie végétale, phytopharmacie, ethnobotanique). (Sum.) Cahiers des Ingén. Agron. 2(20): 15-16. Feb. 1947. 14 C112  
Text in French and English.
- 7627 VILLAMIZAR A., F. El Instituto Fitotecnico de "La Estanzuela." Agr. Trop. 4(10): 41-42. Oct. 15, 1948. 26 Ag8
- 7628 WALKER, L. W. Penetrating the petal; X-ray shadographs show that with flowers, beauty is more than skin deep. Nat. Hist. 57: 462-464. Dec. 1948. 500 N483J
- 7629 WALTER, N. Einführung in die phytologie. Stuttgart, Ulmer, 1948. v. 2. 463 W17
- 7630 WARD, F. K. One crowded hour. Gard. Chron. 124: 166-167. Nov. 20, 1948. 80 G162  
Vegetation in India.
- 7631 WILLIAMS, A. C. J. Leaves from a New Britain note-book. Nature Lover 5: 399-403. Sept. 1948. 410 N218  
Vegetation.

- 7632 WILSON, T. E. Plants of ill-renown. New Zeal. Homes & Gard. 18: 13-14. Apr. 1948. 80 N4823
- 7633 WISWELL, J. G., and others. Contact dermatitis of celery farmers. J. Allergy 19: 396-402. Nov. 1948. 448.8 J8236  
J. W. Irwin, E. F. Guba, F. M. Rackemann, and L. N. Neri, joint authors.

## SYSTEMATIC AND GEOGRAPHIC BOTANY

## General

- 7634 CCPELAND, E. B. The origin of the native flora of Polynesia. Pacific Sci. 2: 293-296. Oct. 1948. 475 P11
- 7635 COVAS, G. Biosistemática. IDIA; Inform. de Invest. Agr. 1(10): 13. Oct. 1948. 9 Id3  
In botany.
- 7636 KOSTER, J. T. Plants collected by Th. Herzog on his second Bolivian journey, 1910-1911. VIII. Blumea 6: 266-273. 1947/48. 450 B62
- 7637 MASAMUNE, G. Miscellaneous notes on the flora of eastern Asia. XXIX. Taiwan 1: 69-70. May 1948. 450 T13
- 7638 MERIT, J. Autour du Mont Monnet (785 m.) Rhone et Loire; aperçu de la flore. Soc. Linn. de Lyon. B. Mens. 16: 173-175, 191-192. Oct.-Nov. 1947. 505 L992B
- 7639 ST. JOHN, H. Plant records from the Caroline Islands, Micronesia: Pacific Plant Studies 8. Pacific Sci. 2: 272-273. Oct. 1948. 475 P11
- 7640 STEENIS, C. G. G. J. VAN. Miscellaneous botanical notes. II. Blumea 6: 243-263. 1947/48. 450 B62  
Malay plants.
- 7641 THORNS, F. W. Indigenous plants. Bot. Soc. So. Africa. J. 33: 6-8. 1947. 451 B657

## Spermatophytes

- 7642 ADELBERT, A. G. L. Notes on the flora of Java. IV. Blumea 6: 310-336. 1947/48. 450 B62
- 7643 BACKER, C. A. Notes on the flora of Java. III. Some remarks on the Moraceae of Java. Blumea 6: 302-309. 1947/48. 450 B62
- 7644 BAVENDAMM, W. Lebende vorfahren der Sequoien. Holz-Zentbl. 74: 429. Oct. 12, 1948. 99.81 H742  
Metasequoia.
- 7645 BEILMANN, A. P. Missouri's oaks. Mo. Bot. Gard. B. 36: 143-148. Nov. 1948. 451 M69B
- 7646 BENSON, L. A treatise on the North American Ranuncul. Amer. Midland Nat. 40: 1-261. July 1948. 410 M58
- 7647 BERGHEN, C. V. Genera des Lejeuneaceae. Lejeunia. Mém. 6, 59 p. Nov. 1945, pub. 1948. 450 L53M
- 7648 BERNER, L. Sur l'expansion de *Lepidium virginicum* L. Soc. Linn. de Lyon. B. Mens. 16: 219-221. Dec. 1947. 505 L992B
- 7649 BONNOT, E. Sur *Anchusa sempervirens* L. et sa présence dans La Loire. Soc. Linn. de Lyon. B. Mens. 16: 145-146. Sept. 1947. 505 L992B
- 7650 BRIADAROLLI, A. J. Acanthaceas nuevas de los alrededores de Buenos Aires. La Plata. Mus. Notas. Bot. 13: 79-95. 1948. 451 L31
- 7651 BROWN, B. I. The vegetation of Bergen Swamp. II. The epiphytic plants. Rochester Acad. Sci. Proc. 9: 119-129. June 1948. 500 R58
- 7652 BRUSH, W. D. Knowing your trees. Amer. Forests 54: 558-559. Dec. 1948. 99.8 F762
- 7653 BUCHHOLZ, J. T. Generic and subgeneric distribution of the Coniferales. Bot. Gaz. 110: 80-91. Ref. Sept. 1948. 450 B652
- 7654 CABRERA, A. L. Las especies argentinas del género *Werneria*. La Plata. Mus. Notas. Bot. 13: 49-61. Ref. 1948. 451 L31
- 7655 CAMUS, A. Sur deux x *Festulolium* récoltés dans le Sud-Ouest. Soc. Linn. de Lyon. B. Mens. 16: 50-51. Mar. 1947. 505 L992B
- 7656 CARDENAS, M. Los bosques de Cactaceas del centro de Bolivia. Folia Univ. 1(1): 119-126. Dec. 1947. 516 F71  
English summary.
- 7657 CHANEY, R. W. The bearing of the living *Metasequoia* on problems of Tertiary paleobotany. Natl. Acad. Sci. Proc. 34: 503-515. Ref. Nov. 1948. 500 N21P
- 7658 CHANEY, R. W. Redwoods in China. Nat. Hist. 57: 440-444. Dec. 1948. 500 N483J  
Metasequoia.



7659 CHATEAU, E. A propos de *Sisymbrium columnae* L. Soc. Linn. de Lyon. B. Mens. 16: 25. Feb. 1947. 505 L992B

7660 CHENG, K. S. The tree-cotton [*Gossypium barbadense*] in Yunnan. Empire Cotton Growing Rev. 25: 279-280. Oct. 1948. 72.8 Em7

7661 COPELAND, H. F. *Hymenantes macrophylla* (G. Don) Copeland f., comb. nov. Leaflets West. Bot. 5: 140. Nov. 19, 1948. 450 L47

7662 DAVIS, R. Three major Philippine Vandas. Amer. Orchid Soc. B. 17: 659-661. Nov. 1948. 80 Am329

7663 EASTWOOD, A. Studies of Pacific Coast lilies. III. Leaflets West. Bot. 5: 133-138. Nov. 19, 1948. 450 L47

7664 FLORIN, R. On the morphology and relationships of the Taxaceae. Bot. Gaz. 110: 31-39. Ref. Sept. 1948. 450 B652

7665 HAWKES, A. D. Notes on *Vanilla barbellata*. Amer. Orchid Soc. B. 17: 652-654. Nov. 1948. 80 Am329

7666 HOOVER, R. F. *Agrostis semiverticillata* transferred to *Polypogon*. Leaflets West. Bot. 5: 138-139. Nov. 19, 1948. 450 L47

7667 HOWELL, J. T. New stations for *Hackelia sharsmithii*. Leaflets West. Bot. 5: 140. Nov. 19, 1948. 450 L47

7668 HOWELL, J. T. *Poa lettermanii* in California. Leaflets West. Bot. 5: 139. Nov. 19, 1948. 450 L47

7669 ISELY, D. Seed characters of common clovers (*Trifolium*). Iowa State Col. J. Sci. 23: 125-136. Oct. 1948. 470 Io9

7670 KOSTER, J. T. Notes on Malay Compositae. II. *Blumea* 6: 264-265. 1947/48. 450 B62

7671 KRISHNA, S., and BADHWAR, R. L. Aromatic plants of India. VIII. J. Sci. and Indus. Res. 7(sup.): 129-144. 1948. 475 J82

7672 LEE, S. H. A taxonomic survey of the oriental pears. Amer. Soc. Hort. Sci. Proc. 51: 152-156. Ref. June 1948. 81 So12

7673 LI, H. L. An enumeration of Yunnan Cornaceae. *Taiwania* 1: 93-102. May 1948. 450 T13

7674 LI, H. L. A revision of the genus *Rehmannia*. *Taiwania* 1: 71-81. May 1948. 450 T13

7675 LI, H. L. Some new *Pedicularis* from India and Burma. *Taiwania* 1: 83-92. May 1948. 450 T13

7676 LITTLE, E. L., JR. Older names for two western species of *Juniperus*. Leaflets West. Bot. 5: 125-132. Nov. 19, 1948. 450 L47

7677 LÖNNQVIST, O. On the occurrence of *Chamaedaphne calyculata* (L.) Moench in Sweden. (In Swedish.) Bot. Notiser 1948: 355-358. 450 B656

7678 MACHADO, O. X. DE B. Nouvelle espèce de *Rutacée* du Brésil, *Pilocarpus lealii* O. Machado, n. sp. Soc. Linn. de Lyon. B. Mens. 16: 144-145. Sept. 1947. 505 L992B

7679 PEATTIE, D. C. Spruce, balsam and birch. Sci. Amer. 179(5): 20-23. Nov. 1948. 470 Sci25

7680 PENDLETON, R. L. Cogon grass, *Imperata cylindrica*, in the Western Hemisphere. Amer. Soc. Agron. J. 40: 1047-1049. Nov. 1948. 4 Am34P

7681 PRESTON, R. J. North American trees (exclusive of Mexico and Tropical United States). Ames, Iowa State Col. Press, 1948. 371 p. 454 P92

7682 RICOURT Y REGUS, R. A. Contribución al estudio de las *Zamia*s en la República Dominicana. U. de Santo Domingo. An. 12: 171-180. Jan./Dec. 1947. 516 C49

7683 ROBYNS, W. Flore des spermatophytes du Parc National Albert. B. Agr. du Congo Belge 39: 745-746. Sept. 1948. 24 K83

7684 RUPP, H. M. R. The section *Genoplesium* in the genus *Prasophyllum* (Orchidaceae). Victorian Nat. 65: 141-154. Oct. 1948. 410 V66

7685 SALTER, T. M. The species of *Oxalis* occurring in the Cape Peninsula and how to distinguish them. Bot. Soc. So. Africa. J. 33: 9-12. 1947. 451 B657

7686 SANCHEZ COZAR, S. El *Abies* del Tazaot. Montes 4: 207-219. May/June 1948. 99.8 M763

7687 SCHLITTNER, J. Unsere gegenwärtige Kenntnis ueber die Liliaceengattung *Dianella* in Malesien. *Blumea* 6: 200-228. 1947/48. 450 B62

7688 SCHWEINFURTH, C. Notes on orchids of the American Tropics. Harvard U. Bot. Mus. Leaflet 13: 133-152. Nov. 24, 1948. 451 H262

Includes n. spp. in *Oakes*-*Amesia*, n. gen., and *Brassia*.

7689 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Diagnostic characters of seed of the commercial species of *Agrostis* and certain species occurring incidentally with them, by A. F. Musil. Rev. Beltsville, Md., 1948. 5 p. 1.965 F2D54

7690 WATSON, A. E. The *Casuarina*. Austral. Nat. 11: 188-189. May 1948. 410 Au72

7691 WEST, E. The oaks of Florida. N. Y. Bot. Gard. J. 49: 273-283. Dec. 1948. 451 N48J

7692 YAMAMOTO, Y. On the menispermaceous plants of China. *Taiwania* 1: 19-67. May 1948. 450 T13

#### Pteridophytes

7693 SHAVER, J. M. A study of Tennessee ferns belonging to the genera *Phegopteris*, *Polystichum*, and *Cystopteris*. Tenn. Acad. Sci. J. 23: 258-274. Oct. 1948. Ref. 500 T25A

#### Algae

7694 ANDERSSON, A., and LUNDH, A. Algological studies in the river Vegeå. (In Swedish.) Bot. Notiser 1948: 285-304. Ref. 450 B656

English summary.

7695 BALLARD, A. C. Observations on pond life. II. Movement of *Cosmarium*. Microscope 7: 77-81. Sept./Oct. 1948. 440.8 M584

7696 BØRGESSEN, F. Some marine algae from Mauritius. Additional lists to the Chlorophyceae and Phaeophyceae. Danske Vidensk. Selsk. Biol. Meddel. 20(12), 55 p. Ref. 1948. 442.9 D23

7697 BOURRELLY, P. Algues rares et nouvelles des mares de la Forêt de Fontainebleau. Rev. Gén. de Bot. 54: 306-325. Ref. July 1947. 450 R326

7698 FOGED, N. Diatoms in water courses in Funen. IV-VI. Dansk Bot. Arkiv 12(9), 53 p.; (12), 110 p. Ref. 1948. 450 D23

7699 JØRGENSEN, E. G. Diatom communities in some Danish lakes and ponds. Danske Vidensk. Selsk. Biol. Skr. 5(2), 140 p. 1948. 442.9 D23B

7700 SLOOTWEG, A. F. G. The Netherlands' marine *Cladophora* species. *Blumea* 6: 274-281. Ref. 1947/48. 450 B62

7701 WIEDLING, S. Beiträge zur kenntnis der vegetativen vermehrung der diatomeen. Bot. Notiser 1948: 322-354. Ref. 450 B656

#### Fungi (Including Lichens)

7702 ALEXANDER, W. P. Bird-nest fungus [*Cyathus olla*] found on our Zoar Valley Preserve. Sanctuary News 8(2): 20-21. Sept. 1948. 410 Sa5

7703 BAKER, K. F. Addendum concerning the binomial *Marssonina rosae*. Plant Dis. Rptr. 32: 448. Oct. 15, 1948. 1.9 P69P

7704 BOYER, J. Des champignons qui laissent échapper des gouttes d'encre. Rustica 20: 22. Jan. 12, 1947. 14 R92

7705 DOTY, M. S. Proposals and notes on some genera of clavarioid fungi and their types. Lloydia 11: 123-138. Ref. June 1948. 442.8 L77

7706 FALCK, R., and FALCK, O. A new class of Ascomycetales. Palestine J. Bot., Rehovot Ser. 6: 89-106. Ref. Dec. 1947. 450 P172

7707 GEESTERANUS, R. A. M. Revision of the lichens of the Netherlands. I. Parmeliaceae. *Blumea* 6: 1-199. Ref. 1947/48. 450 B62

7708 HARDY, G. A. A measure of the fungi. Victoria Nat. 5: 40-43. Oct. 1948. 410 V662

7709 HEIM, R. Leçons sur les hétérobasidiés saprophytes. Rev. de Mycol. 12(sup. colon.): 1-12. (To be cont.) June 1, 1948. 450 An74

7710 HENNIG, B. Der steinpilz [*Boletus*] und seine verwandten. Natur u. Nahr. 2(17/18): 14. Sept. 1948. 80 N218

7711 HUYSMAN, H. S. C. *Lepiota pseudo-lilacea* nov. spec. Soc. Linn. de Lyon. B. Mens. 16: 180-183. Nov. 1947. 505 L992B

7712 JACQUIOT, C. Notes anatomiques sur la maladie de l'okoumé [*Aucoumea klaineana*]. Rev. de Mycol. 12(sup. colon.): 25-28. June 1, 1948. 450 An74

7713 JENKINS, A. E. Diagnosis of the *Elsinoë* on flowering dogwood. Wash. Acad. Sci. J. 38: 362-365. Nov. 15, 1948. 500 W276J



- 7714 KARLING, J. S. An *Olpidium* parasite of Allomyces. *Amer. J. Bot.* 35: 503-510. Ref. Oct. 1948. 450 Am36
- 7715 KÜHNER, R. Un bolet nouveau pour la France: *Ixocomus sibiricus* Singer. *Soc. Linn. de Lyon. B. Mens.* 16: 137-138. Sept. 1947. 505 L992B
- 7716 KÜHNER, R., and ROMAGNESI, H. Caractères et affinités du *Tricholoma guttatum* au sens de Lange. *Soc. Linn. de Lyon. B. Mens.* 16: 134-137. Sept. 1947. 505 L992B
- 7717 KÜHNER, R. Un *Clitocybe* bisporique: *Omphalia litua* (Fr.) sensu Metrod. Description, caryologie, culture, affinité avec *Cl. osmophora* Gilbert. *Soc. Linn. de Lyon. B. Mens.* 16: 150-153. Sept. 1947. 505 L992B
- 7718 LANGE, M. The agarics of Maglemose: a study in the ecology of the agarics. *Dansk Bot. Arkiv* 13, 141 p. Ref. 1948. 450 D23
- 7719 LINDQUIST, J. C. Una interesante especie de *Colletotrichum*: *Colletotrichum consociatum* (nov. sp.). *La Plata. Mus. Notas. Bot.* 13: 39-42. 1948. 451 L31
- 7720 LINDQUIST, J. C. Las *Puccinias* parásitas de *Geranium*, en la República Argentina. *La Plata. Mus. Notas. Bot.* 13: 63-70. 1948. 451 L31
- 7721 LUTMAN, B. F., and WHEELER, H. E. *Bacillus megaterium* de Bary from the interior of healthy potato tubers. *Wash. Acad. Sci. J.* 38: 336-340. Ref. Oct. 15, 1948. 500 W276J
- 7722 MARTIN, G. W. New or noteworthy tropical fungi. IV. *Lloydia* 11: 111-122. June 1948. 442.8 L77
- Ceratobasidiaceae*, n. fam., *Dacryopinax* n. g. and *Platyglea decipiens* n. sp.
- 7723 MOREAU, C., and MOREAU, M. Etude mycologique du chancre de l'okoumé (*Aucoumea klaineana* Pierre). *Rev. de Mycol.* 12(sup. colon.): 14-24. June 1, 1948. 450 An74
- With an introduction by R. Heim, p. 13.
- Pestalozzia aucoumeae* n. sp. and *Hypomyces ipomoeae* described.
- 7724 MUENSCHER, W. C. The vegetation of Bergen Swamp. III. The Myxomycetes. *Rochester Acad. Sci. Proc.* 9: 131-137. June 1948. 500 R58
- 7725 MÜLLER, K. F. L. Morphologische untersuchungen zur aufklärung einiger europäischer lebermoose. *Bern, Büchler*, 1947. 55 p. (Beitr. zur Kryptogamenflora der Schweiz. Bd. 10. Heft 2) 461.32 M91
- 7726 MUNK, A. Pyrenomycetes collected in the peninsula Mols, Jutland. *Dansk Bot. Arkiv* 12(11), 19 p. 1948. 450 D23
- 7727 MURRILL, W. A. Florida Amanitas. *Lloydia* 11: 99-110. June 1948. 442.8 L77
- 7728 MURRILL, W. A. Species of Florida *Lactarius* Fr. *Lloydia* 11: 86-98. June 1948. 442.8 L77
- 7729 NADEL-SCHIFFMANN, M. *Phytophthora hibernalis*. *Palestine J. Bot., Rehovot Ser.* 6: 148-157. Ref. Dec. 1947. 450 P172
- 7730 PRASADA, R. Discovery of the uredo-stage connected with the aecidia so commonly found on species of *Berberis* in the Simla Hills. *Indian J. Agr. Sci.* 17: 137-151. Ref. June 1947. 22 Ag831
- Puccinia graminis*.
- 7731 REICHERT, I., and HELLINGER, E. On the occurrence, morphology and parasitism of *Sclerotium bataticola*. *Palestine J. Bot., Rehovot Ser.* 6: 107-147. Ref. Dec. 1947. 450 P172
- 7732 SLETTEN, O., and SKINNER, C. E. Fungi capable of growing in strongly acid media and in concentrated copper sulfate solutions. *J. Bact.* 56: 679-681. Nov. 1948. 448.8 J82
- 7733 YEN, H. C. Recherches sur les haplontes et sur la sexualité de *Panaeolus retirugis* SS. *Bresadola et de P. acuminatus* SS. *Ricken. Soc. Linn. de Lyon. B. Mens.* 16: 75-78. Apr. 1947. 505 L992B
- 7737 BALDACCI, E., and PICCO, D. Observations on rice diseases in 1946 and 1947. (In Italian.) *Risicoltura* 36: 73-76. Mar. 1948. 59.8 G43
- 7738 BALLU, T. Récents essais de poudrage et de pulvérisation sur pommes de terre. *Acad. d'Agr. de France. Compt. Rend.* 34: 726-727. June 16/23, 1948. 14 P215Bc
- 7739 BELLONTE. Etude sur le dépérissement du pommier. *Cong. Pomol. de France. Sess.* 78: 156-157. 1947. 93.09 C7643
- 7740 BERG, G. Hail- and rain injuries to flax. (In Swedish.) *Lin. Dansk-Svensk Hørtidsskr.* 2: 151-153. Sept. 1948. 73.18 L63
- 7741 BERRY, R. N. Orchards versus deer. *Amer. Fruit Grower* 68(11): 13, 18, 26. Nov. 1948. 80 G85
- 7742 BOSELLI, F. B. Plant diseases and parasites observed in Sardinia in 1947. (In Italian.) *Agr. Sarda* 25: 209-211, 213, 339, 341, 343, 345, 347, 349. (Cont.) July-Aug. 1948. 16 Ag825
- 7743 BRANAS, J. Recherches sur la dégénérescence infectieuse de la vigne. *Prog. Agr. et Vitic.* 1948: 180-188. Oct. 3/10, 1948. 14 P94
- 7744 BROADFOOT, H., and WHITTAKER, E. C. Superficial scald of Granny Smith apples. *Agr. Gaz. N. S. Wales* 59: 407-409, 413. Aug. 1948. 23 N472
- 7745 BUTLER, F. C. Ear, cob and grain rots of maize. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 113, 8 p. 1948. 464.9 N47
- 7746 BUTLER, F. C. Frost injury of wheat. *Agr. Gaz. N. S. Wales* 59: 415-418, 426. (Cont.) Aug. 1948. 23 N472
- 7747 CAMPBELL, W. A. Search for root killer as the cause of littleleaf disease of pine. *Forest Farmer* 8 (3): 4. Dec. 1948. 99.8 F7692
- 7748 CANIZO, J. DEL. Animales dañinos: el topo. *Spain. Min. de Agr. Secc. de Pub., Prensa y Propag. Hojas Divulg.* 11-48 H, 12 p. June 1948. 15 H68
- 7749 CANTER, H. M., and LUND, J. W. G. Studies on plankton parasites. I. *New Phytol.* 47: 238-261. Ref. Oct. 1948. 450 N42
- 7750 CASTANIE, H. Le baioudh, maladie du dattier, danger des palmeraies. *Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc.* 18: 344. Nov. 1948. 80 F9482
- 7751 CERCELET, M. Les pourritures des bois de chênes sur pied. *Acclimatation* 75: 187. Sept. 4, 1948. 14 Ac2
- 7752 CHRISTMANN, G. M. Landschaftsbild und abgase. *Orion* 3: 357-359. Sept. 15, 1948. 474 Or4
- 7753 CLAPP, A. L., and HEYNE, E. G. Oats with resistance. *Kans. State Bd. Agr. Bien. Rpt.* (1945/46) 35: 26-37. 1948. 2 K13R
- 7754 CONTROL of insect pests and fungous diseases. *Fruit World Ann.* 1947: 1, 3, 5, 7-9, 11, 13, 15-16. Jan. 1947. 80 F948
- 7755 DAMBACH, C. A., and LEEDY, D. L. Ohio studies with repellent materials with notes on damage to corn by pheasants and other wildlife. *J. Wildlife Mangt.* 12: 392-398. Oct. 1948. 410 J827
- 7756 DENMARK. STATENS PLANTEPATOLOGISKE FORSØG. Maanedsoversigt over plantesygdomme. *Denmark. Statens Plantepatologiske Forsøg. Maanedsovers. over Plantesygdom.* 298: 59-78. July 1948. 464.9 Sa4M
- Survey of fungus diseases and insect pests of plants by H. R. Hansen, A. Weber, and P. Bøvien.
- 7757 DIMOCK, A. W. Controlling the diseases of carnations and Chrysanthemums. *Florists' Rev.* 103 (2659): 31-33. Nov. 11, 1948. 80 W41
- Also in *Florists Exch.* 111(23): 18, 59. Dec. 4, 1948. 80 F666
- 7758 DUVAL, P. La désinfection des semences. *Paysan d'Ille-et-Vilaine* 3(37): 3. Oct. 1948. 14 F293
- 7759 EKBOTE, R. B., and DHANNALAL. The effect of frost on different wheat varieties sown at intervals. *Indian J. Agr. Sci.* 17: 299-300. Oct. 1947. 22 Ag831
- 7760 ENGELHARD, J. La technique des poudrages. *Rev. Agr. de l'Afrique du Nord* 46: 474-475. Sept. 17, 1948. 80 R326
- Chiefly application of fungicides for grain.
- 7761 FAUCILLON, X. Les maladies de l'ail. *Rustica* 20: 20. Jan. 12, 1947. 14 R92
- 7762 FENNE, S. B., and others. Report of alfalfa-clover disease survey in Virginia. *Plant Dis. Rptr.* 32: 444. Oct. 15, 1948. 1.9 P69P
- R. G. Henderson, T. J. Smith, C. L. Lefebvre, H. M. Tysdal, O. F. Smith, and C. O. Grandfield. joint authors.
- 7763 FOURGEAUD, J. La désinfection des semences. *Blé et le Vin* 25(1110): 3. Sept. 5/12, 1948. 14 B61

## PATHOLOGY

## General

- 7734 ALLINGTON, W. B. Soybean disease problems. *Ill. Agr. Col. Ext. AG1348*, p. 15-16. Dec. 30, 1947. 275.29 IL62Pag
- 7735 ARMSTRONG, J. B. Timely research saved Skagit area vegetable seed industry. *Wash. Farmer* 73: 801. Nov. 4, 1948. 6 R151
- Chiefly control of cabbage diseases.
- 7736 ATKINS, R. E. An evaluation of certain agronomic and disease characters in advanced generations of bulk hybrid oat populations. *Iowa State Col. J. Sci.* 23: 3. Oct. 1948. 470 Io9
- Abstract of thesis (Ph. D.)—Iowa State College.



- 7764 FRANDSEN, H. N. Freezing experiments with flax varieties. (In Danish.) *Lin, Dansk-Svensk Hørtidsskr.* 1: 7-9. Jan./Feb. 1947. 73.18 L63  
To determine cold resistance.
- 7765 GARCÍA RADA, G. Fitopatología agrícola del Peru. Lima, Estación Experimental Agrícola de La Molina, 1947. 423 p. 464 G162
- 7766 GENYEIS, P. Le traitement d'hiver des arbres fruitiers. *Paysan du Sud-Ouest* 3(113): 1. (To be cont.) Feb. 15, 1947. 14 P292
- 7767 GIUSSANI, G. The fruit tree; seasonal notes; winter treatments. (In Italian.) *Not. Agr. [Mantova]* 3(2): 2. Jan. 10, 1947. 16 N485
- 7768 GOIDANICH, G. Diseases of fruit trees. (In Italian.) *Gior. di Agr.* 57: 3, 15, 27, 69. Jan. 5, 19, Feb. 2, Mar. 23, 1947. 16 It1G
- 7769 GÖTZ, B. Winterspritzung der obstbäume. *Landpost* 4(2): 3-4. Jan. 25, 1948. 18 L2329
- 7770 GOULD, E. C. Concentrated sprays for apples. *Md. State Hort. Soc. Proc.* 50: 30-33. 1948. 81 M36
- 7771 HANSEN, W. F. The storm and the trees. (In Danish.) *Gart. Tid.* 64: 526-530. Nov. 3, 1948. 80 G192  
Injuries to trees.
- 7772 HENGL, F. Pflanzenschutz in Oesterreich. *Wiener Bauernbündler* 1(11): 2-3, (12): 6-7. Sept. 18, Oct. 2, 1948. 19 W632
- 7773 HEPTING, G. H. Littleleaf disease of pine as a problem in soils and physiology. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 40-41. 1948. 4 C82
- 7774 HEY, A. Pflanzenschutzaufgaben im künftigen kartoffelbau. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 36-38. Mar./Apr. 1948. 464.9 N11
- 7775 HOCKEY, K. C. Spraying of fruit trees. *New Zeal. Gard.* 5: 101-103. Oct. 1, 1948. 80 N4822
- 7776 HUTTON, K. E. Diseases of cherries. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 116, 6 p. 1948. 464.9 N47
- 7777 ILJIN, W. S. Der biochemische typus der pflanzen und die diagnose der krankheit. *Planta* 35: 701-749. Ref. 1948. 450 P963
- 7778 JOHNSTON, S. Winter injury to cultivated blueberry varieties. *Fruit Varieties & Hort. Digest* 3: 101-102. Winter 1948. '80 F9469
- 7779 JOUGAN, E. Pour le traitement d'hiver des arbres fruitiers. *Monit. Agr.* 1(43): 16. Nov. 7, 1948. 14 M744
- 7780 KAISER, W. Kampf den maisschädlingen! *Kärntner Bauer* 98: 335. Oct. 15, 1948. 19 K14
- 7781 KLEMM, M. Schwarzwild und schwarzwildschäden in Deutschland im jahre 1946. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 74-77. May/June 1948. 464.9 N11
- 7782 KOOT, I. VAN. Various causes for the dying of peaches and plums in greenhouses. (In Dutch.) *Groenten en Fruit* 3: 424-425, 440-441. Feb. 12-19, 1948. 80 G89
- 7783 LACY, B. R. III. What about orchard mice control? *Va. Fruit* 36(10): 9-12, 14-18. Nov. 18, 1948. 81 V81B
- 7784 LAMBERTI, E. Frost and plants. (In Italian.) *Gior. di Agr.* 57: 39. Feb. 16, 1947. 16 It1G
- 7785 LARGE, J. R. Parasitic diseases of tung. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 123. 1948. 4 C82
- 7786 LINDEN, L. VAN DER. Disease symptoms in the 1948 growing season. (In Flemish.) *Tuinbouwberichten* 12: 153-154, 150. Oct. 15, 1948. 80 T817
- 7787 LYNCH, J. Tree doctors study Ontario's Maples; foresters take to the woods to find out what diseases affect our timber lands. *Family Herald & Weekly Star* 79(44): 7. Nov. 3, 1948. 7 F21
- 7788 MAGEE, C. J. Corm rot of bananas. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 71, 2 p. 1948. 464.9 N47
- 7789 MARSHALL, G. E. Control of the major insect pests and diseases of peaches. *Ind. Hort. Soc. Trans.* (1947) 87: 26-27. 1948. 81 In2
- 7790 MARTIN, J. P. A history of the Pathology Department, Experiment Station, H.S.P.A., 1905-1945. *Hawaiian Planters' Rec.* 52: 247-284. Third/Fourth Quart. 1948. 25 H311
- 7791 MARTINEZ MORENO, J. I. Ventajas que se obtienen usando el S-W Basi-Cop y S-W DDTOL conjuntamente en las siembras de papas. *Control de Plagas* 10: 124. Oct. 1948. 464.8 C76
- 7792 MARTYN, E. B. West end bud rot or the unknown disease of coconuts. *Farmer [Kingston]* 52: 88-91. Apr./June 1948. 8 J223  
Also in Caribbean Comm. Monthly B. 2: 65-66. Oct. 1948. 280.9 C19
- 7793 MAYER, K. Die bedeutung des klimas bei der entstehung von epidemien unserer kulturpflanzen. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 51-54. Ref. Mar./Apr. 1948. 464.9 N11
- 7794 MEURMAN, O. Observations on injuries to fruit trees caused by frost during the spring 1947. (In Swedish.) *Sveriges Pomol. För. Årsskr.* 1947: 63-80. 86 Sv2
- 7795 MONCEAU, G. Quelques remarques sur les maladies des arbres fruitiers. *Réveil Agr.* 57: 260-261. Sept. 1, 1948. 14 R322
- 7796 MOORE, W. C. Gladiolus disease. *North. Gard.* 2: 560. Nov. 1948. 80 N816
- 7797 MORSTATT, H. Konstitution und disposition bei pflanzenkrankheiten. *Biol. Zentbl.* 66: 396-401. Ref. 1947. 442.8 B523
- 7798 NELSON, R. Diseases of Gladiolus. *Mich. Agr. Expt. Sta. Spec. B.* 350, 63 p. June 1948. 100 M58S
- 7799 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of cabbages, cauliflowers and turnips. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 87, 6 p. 1948. 464.9 N47
- 7800 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of Chrysanthemums. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 118, 4 p. 1948. 464.9 N47
- 7801 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of daffodils. *N. S. Wales. Dept. Agr. Leaflet* 120, 4 p. 1948. 464.9 N47
- 7802 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of Dahlias. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 61, 3 p. 1948. 464.9 N47
- 7803 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of lettuce. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 105, 4 p. 1948. 464.9 N47
- 7804 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of peas. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 89, 4 p. 1948. 464.9 N47
- 7805 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of potatoes. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 88, 8 p. 1948. 464.9 N47
- 7806 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of stocks. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 119, 4 p. 1948. 464.9 N47
- 7807 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Diseases of strawberries. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 95, 4 p. 1948. 464.9 N47
- 7808 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Fusarium wilts and root rots. *N. S. Wales. Dept. Agr. Plant Dis. Leaflet* 47, 6 p. 1948. 464.9 N47
- 7809 ODERKIRK, G. C. Pointers on field mice control. *Wis. Hort.* 39: 39-40. Oct. 1948. 80 W752
- 7810 OUDEMANS, C. Notes on night frost. (In Dutch.) *Nederland. Boschbouw Tijdschr.* 20: 286-287. Nov. 1948. 99.8 N28  
Injury to forest tree plants.
- 7811 PERRET, J. E. Recherches sur les moyens à employer contre les escargots. *Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc.* 18: 297-302. Oct. 1948. 80 F9482
- 7812 PINEAU, J. Les campagnols et les mulots en Poitou. *Rev. Tech. de la Protect. des Vég.* 1: 99-167. 1947. 464.9 F84R
- 7813 RAUCOURT, M. L'homologation des produits antiparasitaires à usage agricole. *Rev. Tech. de la Protect. des Vég.* 1: 169-208. 1947. 464.9 F84R
- 7814 REICHERT, I., PALTI, J., and MOELLER, S. Spraying and dusting trials for tomato disease control. *Palestine J. Bot., Rehovot Ser.* 6: 188-200. Ref. Dec. 1947. 450 P172
- 7815 REISINGER, E. Vorschau auf die winterspritzung. *Kärntner Bauer* 98: 333-335. Oct. 15, 1948. 19 K14  
Fruit.
- 7816 ROHM AND HAAS COMPANY. Better quality, higher yields from superior disease control with Dithane Z78. Philadelphia, 1948? folder. 464.4 R63
- 7817 SADLER, G. Vine troubles. *Pop. Gard.* 50: 271-272. Sept. 18, 1948. 80 G1622



- 7818 SCHMIDT, H. W. Der star im lichte der gartenwirtschaft. Gartenjahr 8: 109-110. July 1948. 80 G1932
- 7819 SCHWERDTFEGGER, F. Dürretrocknis. Forst u. Holz 3: 164. Sept. 1, 1948. 99.8 F7724
- 7820 SHEWELL-COOPER, W. E. Effects of frost. Some recent experiments on damage to fruit blossom. Field 192: 495. Oct. 30, 1948. 10 F45
- 7821 SHUTAK, V., and SCHRADER, A. L. Factors associated with skin-cracking of York Imperial apples. Amer. Soc. Hort. Sci. Proc. 51: 245-257. Ref. June 1948. 81 S012
- 7822 SINGH, U. B. Phytopathological examination of seeds by Ulster method. Cur. Sci. 17: 266-267. Sept. 1948. 475 S023
- 7823 SOULE, G. H. Chemicals protect crops. Du Pont Mag. 42(6): 18-19. Nov./Dec. 1948. 309.8 D92
- Seed disinfectants.
- 7824 STÖRMER, K., and BERNUTH, J. VON. Neue Gesichtspunkte zum Thema pflanzkartoffelgesundheit. Neue Mitt. f. die Landw. 3: 248-250. (Concl.) Aug. 21, 1948. 18 N39
- 7825 SWARTWOUT, H. G. Results of grape spraying experiments with spraying suggestions. Kans. State Hort. Soc. Bien. Rpt. 49: 101-105. 1948. 81 K13
- 7826 SWARTWOUT, H. G. Spray results with certain apple diseases, cherry leaf spot and grape black rot. Kans. State Hort. Soc. Bien. Rpt. 49: 95-100. 1948. 81 K13
- 7827 THUNG, T. H. Dissemination of plant diseases. (In Dutch.) Landbouwk. Tijdschr. 59: 346-350. Ref. Aug./Sept. 1947. 105.2 Or3
- 7828 THURSTON, H. W., LEACH, J. G., and WILSON, J. D. Chromates as potato fungicides. Amer. Potato J. 25: 406-409. Nov. 1948. 75.8 P842
- 7829 UPPAL, B. N. Diseases of cotton in India. Bangalore City, 1948. 32 p. 464.042 Up6
- 7830 VALSET, T. Hail injury estimate in apple orchard. (In Norwegian.) Norsk Høgetidend 64: 166-167. Sept. 1/15, 1948. 80 N81
- 7831 WAHLIN, B., and HOFSTEN, C. G. VON. Plant disease studies from the air. (In Swedish.) Lantmannen 32: 773, 784. Nov. 20, 1948. 11 L234
- 7832 WEDDELL, D. J. Littleleaf, a serious disturbance of shortleaf pine. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 42. 1948. 4 C82
- 7833 WENZL, H. Das neue österreichische pflanzenschutzgesetz. Pflanzenschutzberichte 2: 145-156. Sept. 1948. 464.9 P48
- 7834 WENZL, H. Zur erfassung des schadensausmasses in pflanzenschutzversuchen. Pflanzenschutzberichte 2: 81-84. May 1948. 464.9 P48
- English summary.
- 7835 WEST, E. Ornamental disease control. Fla. Grower 56(11): 30-31. Nov. 1948. 80 F6622
- 7836 WITTE, A. Diseases and pests of the Douglas-fir. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 10-18. Ref. 1948. 99.8 Sk5
- 7837 WOLFE, H. S. How wind damages fruit trees. Fla. Grower 56(11): 18-19. Nov. 1948. 80 F6622
- 7838 WOODRUFF, J. B., and WARNER, O. F. Limb die-back of maple in the Northeast. Arborist's News 13 (11): 101-102. Nov. 1948. 99.8 Ar14
- 7839 WOUDEMBERG, J. P. M. Night frost and its control. (In Dutch.) Nederland. Boschbouw Tijdschr. 20: 288-295. Ref. Nov. 1948. 99.8 N28
- Effects on forest tree plants.
- Diseases Caused by Fungi
- 7840 ABMEYER, E. Apple scab control experiments of 1946. Kans. State Hort. Soc. Bien. Rpt. 49: 58-62. 1948. 81 K13
- 7841 ALEMÁN, J. O. Plagas del algodónero. Germinal 1(8): 2. Sept. 15, 1948. 8 G312
- Root rot and wilt of cotton.
- 7842 ASTHANA, R. P. The role of 'cuttings' in the dissemination of foot-rot of Piper betel. Indian J. Agr. Sci. 17: 223-225. Aug. 1947. 22 Ag831
- 7843 ASTREGO, J. J. Asparagus rust [Puccinia asparagi]. (In Dutch.) Groenten en Fruit 4: 235. Oct. 21, 1948. 80 G83
- 7844 ATKINS, F. C., and LA TOUCHE, C. J. Competition from Pseudobalsamia microspora Diehl and Lambert (truffle, false truffle, "calves' brains"). Mushroom Dis. Leaflet 2, 4 p. Jan. 1948. 464.3 M97
- 7845 ATKINS, F. C. Disease caused by Dactylium spp. Mushroom Dis. Leaflet 4, 3 p. July 1948. 464.3 M97
- 7846 ATKINS, F. C., and LA TOUCHE, C. J. Disease caused by Mycogone perniciosa Magnus (bubble). Mushroom Dis. Leaflet 3, 4 p. Apr. 1948. 464.3 M97
- 7847 ATKINS, F. C., and LA TOUCHE, C. J. Disease caused by Verticillium malthousei Ware (brown spot, fungus spot, dry bubble). Mushroom Dis. Leaflet 1, 3 p. July 1947. 464.3 M97
- 7848 AVIZOHAR-HERSHENSON, Z., and PLAUT, M. The inoculation of rye with Claviceps purpurea as related to environmental conditions. Palestine J. Bot., Rehovot Ser. 6: 181-187. Ref. Dec. 1947. 450 P172
- 7849 BAKER, K. F. Nursery seedlings; improved methods of production with control of damping-off disease. Pacific Coast Nurseryman 7(11): 9, 28-29. Nov. 1948. 80 P116
- 7850 BALDACCI, E. Observations on fungus diseases of the olive in Sicily. (In Italian.) Olearia 2: 557-562. Aug./Sept. 1948. 307.8 OL2
- 7851 BARDET, A. Le mildiou de la pomme de terre. Pomme de Terre Franç. 11(11): 17-20. Nov. 1948. 75.8 P77
- 7852 BAZAN DE SEGURA, C. Algunos fungicidas, su preparación y aplicaciones. Lima, Peru. Estac. Expt. Agr. de La Molina. Divulg. Agr. 7, 15 p. Feb. 1947. 102.5 L622D
- 7853 BELLOD Y BELLOD, M. La "yesca", enfermedad de la viña. Balearic Isl. Diputació Prov. B. de Agr. 45: 2-4. June 1948. 15 B19
- 7854 BOOSALIS, M. G., and KERNKAMP, M. F. Fungi that poison soybeans. Minn. Farm & Home Sci. [Minn. Sta.] 6: 5. Nov. 1948. 100 M668
- 7855 BORZINI, G., and MALQUORI, A. Chemical reactions and fungistatic action of sulfur. (In Italian.) Ricerca Sci. 18: 781-784. July 1948. 475 It1
- 7856 BOURIQUET, G. Présence à Madagascar d'un nouveau parasite du riz: le Sclerotium oryzae Catt. Rev. de Mycol. 12(sup. colon.): 29-32. June 1, 1948. 450 An74
- 7857 BURTON, M. O. Mould contamination on strawberry hallocks. Canad. Food Indus. 19(12): 27. Dec. 1948. 286.83 C166
- 7858 BUTLER, F. C. Downy mildew (blue mould) of tobacco. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 27, 4 p. 1948. 464.9 N47
- 7859 BUTLER, F. C. Take-all of wheat. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 33, 3 p. 1948. 464.9 N47
- 7860 CAMARGO, R. DE. Control root rot of coffee trees. (In Portuguese.) Chacaras e Quintais 78: 352. Sept. 15, 1948. 9.2 C34
- 7861 CASTELLANI, E. Anthracnose of the carob. (In Italian.) Riv. di Agr. Subtrop. e Trop. 42: 81-91. Ref. Apr./June 1948. 26 Ag82
- English summary.
- A strain of Colletotrichum gloeosporioides.
- 7862 CASTELLANI, E. Orange scab [Elsinoe australis] in Eritrea. (In Italian.) Riv. di Agr. Subtrop. e Trop. 42: 145-150. Ref. July/Sept. 1948. 26 Ag82
- English summary.
- 7863 CHIAPPELLI, R. Rice blast. (In Italian.) Riscicoltura 36: 1-3. Jan. 1948. 59.8 G43
- 7864 CICCARONE, A. An interesting defoliation of cotton. (In Italian.) Riv. di Agr. Subtrop. e Trop. 42: 154-156. July/Sept. 1948. 26 Ag82
- English summary.
- Caused by Alternaria macrospora.
- 7865 CLARK, L. H. Botrytis polyblastis found in California. Plant Dis. Rptr. 32: 445-446. Oct. 15, 1948. 1.9 P69P
- On Narcissus.
- 7866 CONOVER, R. A., WALTER, J. M., and STODARD, D. L. Control of late blight of tomatoes in Florida. Fla. Agr. Expt. Sta. Press B. 652, 4 p. Aug. 1948. 100 F66S
- Caused by the fungus Phytophthora infestans.
- 7867 DAMON, S. C., and SNELL, W. H. Two unusual hosts. Plant Dis. Rptr. 32: 447. Oct. 15, 1948. 1.9 P69P
- Fusarium on Metasequoia and Botrytis cinerea on Exochorda.
- 7868 EDDINS, A. H. Downy mildew can be controlled. Prog. Farmer, Ga.-Ala.-Fla. Ed. 63(12): 27. Dec. 1948. 6 P945G



- 7869 EKBOTE, R. B., and KALAMKAR, R. J. Damage to the wheat crop by rust in relation to variety and time of sowing. *Indian J. Agr. Sci.* 17: 297-298. Oct. 1947. 22 Ag831
- 7870 ELLIS, D. E., and GARRISS, H. R. Actinomyces on Dahlia. *Plant Dis. Rptr.* 32: 449. Oct. 15, 1948. 1.9 P69P
- 7871 EMILSSON, B. Beware of potato scab. (In Swedish.) *Lantmannen* 32: 202-204. Mar. 20, 1948. 11 L234
- 7872 FENNELL, J. L. New cowpeas resistant to mildew. *J. Hered.* 39: 275-279. Oct. 1948. 442.8 Am3 Erysiphe.
- 7873 FERNOW, K. H. Wilt of potatoes. *Plant Dis. Rptr.* 32: 450. Oct. 15, 1948. 1.9 P69P
- 7874 FISCHER, H. Der gitterrost der birnbäume und seine bekämpfung. *Schweiz. Z. f. Obst- u. Weinbau* 57: 359-362. Oct. 9, 1948. 80 Sch9 Flugschrift 8.
- 7875 FRASER, L. Phytophthora root rot of citrus. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 97, 5 p. 1948. 464.9 N47
- 7876 FRAZIER, W. A., HENDRIX, J. W., and KIKUTA, K. Breeding rust resistant pole green beans for Hawaii. *Amer. Soc. Hort. Sci. Proc.* 51: 468-470. June 1948. 81 Sol2
- 7877 FREDERIKSEN, P. S. Distribution of flax rust in Denmark. (In Danish.) *Lin. Dansk-Svensk Hørtidsskr.* 1: 233-237. Dec. 1947. 73.18 L63
- 7878 FREDERIKSEN, P. S. Flax rust. (Melampsora lini (Pers.) Lev.). (In Swedish.) *Lin. Dansk-Svensk Hørtidsskr.* 1: 165-180. Ref. Oct. 1947. 73.18 L63 English summary.
- 7879 FREDERIKSEN, P. S. Observations on the resistance of linen flax varieties to flax rust. (In Danish.) *Lin. Dansk-Svensk Hørtidsskr.* 2: 11-15. Jan./Feb. 1948. 73.18 L63 English abstract, p. 29.
- 7880 GARG, D. N. Pellicularia filamentosa (Pat.) Rogers, comb. nov. causing a root-rot of berseem (*Trifolium alexandrinum* Linn.) in the United Provinces. *Cur Sci.* 17: 270. Sept. 1948. 475 Sci23
- 7881 GÄUMANN, E. Über den mechanismus des infektiösen welkens. *Biol. Zentbl.* 67: 22-26. 1948. 442.8 B523 English, French and Russian summaries. Fusarium lycopersici on tomato.
- 7882 GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Blue-mold control by spraying tobacco beds. *Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper* 7, rev., 2 p. Oct. 1948. 100 G292M
- 7883 GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Dusting tobacco plantbeds for blue-mold control. *Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper* 42, rev., 1 p. Oct. 1948. 100 G292M
- 7884 GILL, D. L. Camellia root rot. *Amer. Camellia Ybk.* 1948: 116-120. 97.31 Am32 Phytophthora cinnamomi.
- 7885 GILL, D. L. Information on Azalea petal blight and its control. *Florists' Rev.* 103: 38-39, 102-103. Nov. 18, 1948. 80 W41 Also in *Florists Exch.* 111(21): 14-15. Nov. 20, 1948. 80 F666
- 7886 GODFREY, G. H. Breeding cantaloupes for downy mildew resistance in the lower Rio Grande Valley. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 121-122. 1948. 4 C82
- 7887 GOIDANICH, G. Identification of a disease new to Italy: rot of legumes caused by *Macrophomina phaseolina*. (In Italian.) *Humus* 4(3): 16-17. Mar. 1948. 16 H88
- 7888 GOLDSWORTHY, M. C., and DUNEGAN, J. C. Recent studies on the control of peach brown rot. *Md. State Hort. Soc. Proc.* 50: 3-6. 1948. 81 M36
- 7889 GUZZINI, D. Sicilian lemon culture. (In Italian.) *Gior. di Agr.* 57: 69. Mar. 23, 1947. 16 H1G Deuterophoma tracheiphila on lemon.
- 7890 HALLEMANS, A. Fungus diseases of grapes and gooseberries. (In Flemish.) *Cult. en Handel* 14: 165-166. Mar. 1948. 80 C892
- 7891 HARLAND, S. C. Inheritance of immunity to mildew in Peruvian forms of *Pisum sativum*. *Heredity* 2: 263-269. Sept. 1948. 443.8 H42 Erysiphe polygoni.
- 7892 HERAS MONTER, A. Toledo y sus zonas próximas pierden el sesenta y cinco por ciento de la cosecha a causa del mildeu. *Aliment. Nac.* 7(128): 3, 14. Sept. 25, 1948. 389.8 AL42 Grapes.
- 7893 HOFFMAN, R. M. Control of brown rot in Drake almonds. *Calif. Fruit & Grape Grower* 2(11): 8-9. Nov. 1948. 95.8 G762
- 7894 HUTTON, K. E. Brown rot of stone fruits. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 4, 5 p. 1948. 464.9 N47
- 7895 INFANTE, G. Prepárese el próximo azuframiento de la vid. *Campesino [Santiago]* 80(8): 31. Aug. 1948. 9.3 Sol2
- 7896 JEFFERS, W. F., WEAVER, L. O., and COX, C. E. The occurrence of stem anthracnose of lima bean in Maryland during the 1948 season. *Plant Dis. Rptr.* 32: 450. Oct. 15, 1948. 1.9 P69P
- 7897 JENKINS, W. A. Vesta tobacco lines resist blackshank and root rot. *Prog. Farmer, Car.-Va. Ed.* 63(12): 16. Dec. 1948. 6 P945
- 7898 JOHNSON, H. W. Treating of soybean seed results in better stands. *Miss. Agr. Expt. Sta. Serv. Sheet* 411, 2 p. June 1948. 100 M69
- 7899 KATZ, S. J. Dieback. *Amer. Camellia Ybk.* 1948: 120-123. 97.31 Am32
- 7900 KAUFERT, F. H. The future of the American elm. *Minn. Farm & Home Sci. [Minn. Sta.]* 6: 10-11. Nov. 1948. 100 M668
- 7901 KERK, G. J. M. VAN DER. Organic fungicides. (In Dutch.) *T.N.O.-Nieuws* 3: 277-282. Oct. 1948. 475 T11
- 7902 KLOTZ, L. J., and STEWART, W. S. Citrus fruit-stem die-back. *Fruit & Veg. Rev.* 9(8): 23. Nov. 1948. 80 C1224
- 7903 LAURENS, R. P. Mildiou 1948. *Prog. Agr. et Vitic.* 1948: 228-230. Oct. 31, 1948. 14 P94
- 7904 LEHMANN, E. Der schwarzzrost. *Orion* 3: 298-303. Aug. 15, 1948. 474 Or4 Of wheat.
- 7905 LEUKEL, R. W. Periconia circinata and its relation to milo disease. *J. Agr. Res.* 77: 201-222. Ref. Oct. 1/15, 1948. 1 Ag84J
- 7906 LITTAUER, F. Control of stem-end rot and moulds in Shamouti oranges with nitrogen trichloride (Decco process). *Palestine J. Bot., Rehovot Ser.* 6: 205-218. Dec. 1947. 450 P172
- 7907 LITTAUER, F., NADEL-SCHIFFMANN, M., and MINZ, G. The mode of infection of Shamouti oranges by Diplodia. *Palestine J. Bot., Rehovot Ser.* 6: 158-164. Dec. 1947. 450 P172
- 7908 LONG, E. R. Genetic studies on differential host reaction to *Penicillium* seedling disease of corn. *Urbana, 1948.* 6 p. 464.02 L54 Abstract of thesis - Univ. of Illinois.
- 7909 LYLE, E. W., and others. Control of cotton root rot by sweetclover in rotation. *Tex. Agr. Expt. Sta. B.* 699, 21 p. Ref. July 1948. 100 T315 A. A. Dunlap, H. O. Hill, and B. D. Hargrove, joint authors.
- 7910 MCKEEN, W. E. Blackroot of sugar beets and recent methods of control. *Up & Down Rows* 82: 4. Oct. 1948. 66.8 Up1
- 7911 MARTÍNEZ MORENO, J. I. Que son los fungicidas? *Control de Plagas* 10: 146-147. Nov. 1948. 464.8 C76
- 7912 MARUDARAJAN, D., and KALYANASUBRAMANYAM, S. The use of plain Bordeaux mixture for the successful control of fruit rot (mahali) of arecanuts caused by *Phytophthora arecae* (P. palmivora). *Madras Agr. J.* 35: 169-178. Aug. 1948. 22 M262
- 7913 MEHTA, P. R., and BOSE, S. K. A leaf-spot disease of fig (*Ficus carica* L.) caused by *Cylindrocadium scoparium* Morg. *Indian J. Agr. Sci.* 17: 219-221. Ref. Aug. 1947. 22 Ag831
- 7914 MILLER, P. R., WOOD, J. I., and O'BRIEN, M. J. Plant disease forecasting makes possible more effective methods of fungicidal control. *Agr. Chem.* 3 (11): 28-31, 63, 65-66 B. Nov. 1948. 381 Ag8
- 7915 MINZ, G., NADEL-SCHIFFMANN, M., and LITTAUER, F. The incubation period and rate of development of Diplodia in Shamouti oranges. *Palestine J. Bot., Rehovot Ser.* 6: 165-169. Dec. 1947. 450 P172
- 7916 MOREAU, C. Une pourriture des ananas de Guinée. *Rev. de Mycol.* 12(sup. colon.): 32-34. June 1, 1948. 450 An74
- 7917 NADEL-SCHIFFMANN, M., MINZ, G., and LITTAUER, F. Anatomical study of the button and rind of Shamouti oranges in relation to the mode of infection by Diplodia. *Palestine J. Bot., Rehovot Ser.* 6: 170-173. Dec. 1947. 450 P172



- 7918 NAJJAR, H. The brown rot of apricots. (In Arabic.) Syria. Ext. Serv. C. 3, 12 p. May 1947. 22.5 Sy8  
English summary.
- 7919 NAJJAR, H. Controlling powdery mildews. (In Arabic.) Syria. Ext. Serv. C. 4, 10 p. May 1947. 22.5 Sy8  
English summary.
- 7920 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Black spot of citrus. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 11, 4 p. 1948. 464.9 N47
- 7921 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Collar rot of citrus trees. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 34, 4 p. 1948. 464.9 N47
- 7922 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Damping-off of seedlings. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 83, 1 p. 1948. 464.9 N47
- 7923 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Ergot of Paspalum. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 104, 3 p. 1948. 464.9 N47
- 7924 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Late blight of potatoes and tomatoes. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 39, 5 p. 1948. 464.9 N47
- 7925 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Leaf spot of wheat. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 48, 2 p. 1948. 464.9 N47
- 7926 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Melanose of citrus. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 22, 3 p. 1948. 464.9 N47
- 7927 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Oat smuts. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 50, 3 p. 1948. 464.9 N47
- 7928 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Shot-hole scab and gumming of stone fruits. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 25, 2 p. 464.9 N47
- 7929 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Smut diseases of sorghum and broom millet. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 78, 2 p. 1948. 464.9 N47
- 7930 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Vegetable seed treatments. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 81, 4 p. 1948. 464.9 N47
- 7931 ORR, C. Seed treatment. Rice News 15(10): 7, 12. Oct. 1948. 59.8 R362
- 7932 PALTI, J. Further work on the application of fungicidal sprays by overhead irrigation equipment. Palestine J. Bot., Rehovot Ser. 6: 201-204. Dec. 1947. 450 P172
- 7933 PICADO, C. El Fusarium del café en Costa Rica. Inst. de Defensa del Café de Costa Rica. Rev. 19: 77-86. June 1948. 68.28 C82
- 7934 PLAKIDAS, A. G. Camellia scab. Amer. Camellia Ybk. 1948: 110-115. 97.31 Am32
- 7935 PLAKIDAS, A. G. Curvularia spot of Gladiolus from Mississippi. Plant Dis. Rptr. 32: 449. Oct. 15, 1948. 1.9 P69P
- 7936 PORSE, Ö. Current plant protection problems. (In Swedish.) Lantbrukstidskr. för Dalarna 1948(1): 16-17. Feb. 1948. 11 L29  
Rust on spring wheat.
- 7937 REICHERT, I., and PALTI, J. The control of lichens in citrus groves. Palestine J. Bot., Rehovot Ser. 6: 222-224. Dec. 1947. 450 P172  
Xanthoria parietina.
- 7938 RENOUF, L. R. Verticillium wilt of apricots. New Zeal. J. Agr. 77: 284. Sept. 1948. 23 N48J
- 7939 RIDDLE, O. C., and SUNESON, C. A. Sources and use of scald resistance in barley. Amer. Soc. Agron. J. 40: 926-928. Oct. 1948. 4 Am34P  
Rhynchosporium secalis.
- 7940 RILEY, H. K., and DAIGLE, C. J. Spray tests for Azalea petal blight. Amer. Soc. Hort. Sci. Proc. 51: 651-653. June 1948. 81 So12
- 7941 ROSELLA, E. La carie du blé et les inconvénients des traitements par voie humide. Prog. Agr. et Vitic. 1948: 234-236. Oct. 31, 1948. 14 P94
- 7942 ROSS, J. G., and others. Factors affecting the degree of infection of barley by loose smut (Ustilago nuda (Jens) Rostr.). Sci. Agr. 28: 481-492. Ref. Nov. 1948. 7 Sci2  
W. Semeniuk, D. K. Taylor, and B. C. Jenkins, joint authors.
- 7943 SHAY, J. R., and SHARVELLE, E. G. The effectiveness of certain of the newer fungicides in the control of apple scab in Indiana in 1947. Ind. Hort. Soc. Trans. (1947) 87: 14-16. 1948. 81 In2
- 7944 SIGGERS, P. V. Weather and the southern rust-form rust. Forest Farmer 7(2): 8, 10. Nov. 1948. 99.8 F7692
- 7945 SMITH, W. P. C. Late or Irish blight of potatoes. West. Austral. Dept. Agr. Leaflet 915, 7 p. 1947. 23 W52B  
Caused by Phytophthora infestans.
- 7946 STAMPER, E. R., ATKINS, J. G., JR., and GRAY, J. P. Helminthosporium blight of oats in Louisiana. La. Agr. Expt. Sta. B. 431, 14 p. Sept. 1948. 100 L93
- 7947 STANTON, T. R. New varieties of oats from bond crosses resistant to Victoria blight. U. S. D. A. C. 795, 7 p. Ref. Oct. 1948. 1 Ag84C  
Caused by the fungus Helminthosporium victoriae.
- 7948 SUTTON, W. S. Early blight or target spot of tomatoes. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 122, 4 p. 1948. 464.9 N47
- 7949 TILEMANS, E. Les composés organo-cupriques. Parasitica 4: 21-26. 1948. 464.8 P21
- 7950 TUKEY, H. B. A note on the fungicidal property of actidione. Science 108: 664. Dec. 10, 1948. 470 Sci2
- 7951 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications relating to fungus defects in forest products and to decay in trees. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R508, 25 p. June 1948. 1.9 F761R
- 7952 VESTAL, E. F. Observations on weather and fungi at Allahabad in 1947-48. Allahabad Farmer 22: 305-307. Mar. 1948. 22 AL5
- 7953 VIENNOT-BOURGIN, G. La tavelure du pêcher [Megacladosporium carpophilum]. Cong. Pomol. de France. Sess. 78: 99-104. 1947. 93.09 C7643
- 7954 WALKER, J. C. Vegetable seed treatment. Bot. Rev. 14: 588-601. Ref. Nov. 1948. 450 B6527
- 7955 WENZL, H. Zur methodik der spritzmittelprüfung gegen die Cercospora-blattfleckenkrankheit der zuckerrübe im feldversuch. Pflanzenschutzberichte 2: 65-73. May 1948. 464.9 P48  
English summary.
- 7956 WENZL, H. Zweigschäden durch Sclerotinia laxa an marille. Pflanzenschutzberichte 2: 140-144. Sept. 1948. 464.9 P48  
English summary.
- 7957 WEST, E. More about Camellia dieback. Amer. Camellia Ybk. 1948: 124-126. 97.31 Am32
- 7958 WETTINGER. Mehr brot und futter durch beizung. Bad. Landw. Wchbl. 3: 44-45. Mar. 25, 1948. 18 B142
- 7959 WILHELM, A. Peronospora und oidium der rebe. Landpost 4(11): 2-3. June 10, 1948. 18 L2329
- 7960 WILHELM, A. Der rote brenner. Landpost 4(9): 3. May 10, 1948. 18 L2329  
Grapes.
- 7961 WILSON, R. D. Late blight of celery. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 63, 2 p. 1948. 464.9 N47
- 7962 YOUNG, R. A. Host-parasite relationship of Chalara quercina and species of Quercus. Iowa State Col. J. Sci. 23: 97-99. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.

## Diseases Caused by Bacteria

- 7963 BRAUN, A. C. Studies on the origin and development of plant teratomas incited by the crown-gall bacterium. Amer. J. Bot. 35: 511-519. Ref. Oct. 1948. 450 Am36
- 7964 BROWN, J. G., EMMONS, M., and KEENER, P. D. I. A bacterial disease of melons in southern Arizona; II. Virus diseases of melons. Ariz. Agr. Expt. Sta. B. 217, 13 p. Aug. 1948. 100 Ar4
- 7965 GARRISS, H. R., and ELLIS, D. E. Notes on cabbage black rot in North Carolina. Plant Dis. Rptr. 32: 451-452. Oct. 15, 1948. 1.9 P69P
- 7966 LENANDER, S. E. Control dieback [Pseudomonas mors prunorum] on cherry trees with spraying. (In Swedish.) Försök och Forskning 4: 74-75. May 1947. 11 F77
- 7967 LITTAUER, F., VOLCANI, Z., and TEMKIN-GORODISKY, N. Brown rot of potatoes in Palestine. Palestine J. Bot., Rehovot Ser. 6: 219-220. Dec. 1947. 450 P172
- 7968 MAGROU, J., and PRÉVOT, A. R. Études de systématique bactérienne. IX. Essai de classification des bactéries phytopathogènes et espèces voisines. Inst. Pasteur. Ann. 75: 99-108. Aug. 1948. 448.3 An75



7969 MARIAT, F. Observations sur une nouvelle maladie bactérienne [*Aplanobacter magroui*] du géranium cultivé (Pelargonium zonale). Rev. de Path. Vég. et d'Ent. Agr. de France 27: 72-77. Apr. 1948. 464.9 Sol

7970 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Bacterial canker of tomatoes. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 59, 4 p. 1948. 464.9 N47

7971 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Brown spot of mandarin. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 10, 3 p. 1948. 464.9 N47

7972 PATEL, M. K., and MONIZ, L. Xanthomonas desmodii-gangeticii, sp. nov., Uppal, Patel and Moniz; a new bacterial leaf-spot of Desmodium gangeticum DC. Cur. Sci. 17: 268. Sept. 1948. 475 Sci23

7973 PERRAULT, C. Études sur la pourriture du cerne des pommes de terre causées par *Corynebacterium sepedonicum* (Spieck. & Kott) Skaptason et Burkholder. II. Sci. Agr. 28: 518-530. Ref. Nov. 1948. 7 Sci2 English summary.

7974 REID, W. D. Expert talks on fireblight [of apples and pears.] Orchardist New Zeal. 21(6): 3. Sept. 6, 1948. 80 Or19

7975 THOMAS, W., MACK, W. B., and FAGAN, F. N. Foliar diagnosis: comparison of diseased and healthy leaves from the same tree in a peach orchard infected with *Bacterium pruni*. Amer. Soc. Hort. Sci. Proc. 51: 179-182. June 1948. 81 Sol2

7976 THOMAS, W., MACK, W. B., and FAGAN, F. N. Foliar diagnosis: nutritional factors in relation to bacterial leaf spot of peach. Amer. Soc. Hort. Sci. Proc. 51: 183-190. Ref. June 1948. 81 Sol2

#### Viruses and Virus Diseases

7977 ANGELES, O. La "tristeza" de los cítricos. Agronomía [Lima] 12(52): 89-90. Oct./Dec. 1947. 9.8 Ag83

7978 BISCHOFF, W. H. Mobilizing to save the groves: science acts to prevent invasion of tree malady [Tristeza] from South America. Citrus [Tampa] 11(2): 12-14. Oct. 1948. 80 C498

7979 CAPOOR, S. P., and VARMA, P. M. A mosaic disease of *Carica papaya* L. in the Bombay Province. Cur. Sci. 17: 265-266. Sept. 1948. 475 Sci23

7980 CAPOOR, S. P., and VARMA, P. M. A mosaic disease of *Lagenaria vulgaris* Ser in the Bombay Province. Cur. Sci. 17: 274-275. Sept. 1948. 475 Sci23

7981 CARLISLE, C. H., and DORNBERGER, K. Some X-ray measurements on single crystals of tomato bushy-stunt virus. Acta Crystallograph. 1: 194-196. Sept. 1948. 382 Ac8

7982 CHAMBERLAIN, E. E. Virus diseases of tree tomato (*Cyphomandra betacea* Sendt.) New Zeal. J. Sci. and Technol. A. Agr. Res. Sect. 29: 256-260. Feb. 1948. 514 N48A

7983 COCHRAN, L. C. The virus problem: a mysterious and serious menace in the orchard. Amer. Fruit Grower 68(11): 9-11, 20-24. Nov. 1948. 80 G85

7984 DEMAREE, J. B. Yellows or xanthosis in strawberries in eastern United States. Plant Dis. Rptr. 32: 428-432. Oct. 15, 1948. 1.9 P69P

7985 DICKSON, R. C., FLOCK, R. A., and JOHNSON, M. M. Orange tree quick decline. Calif. Agr. [Calif. Sta.] 2(12): 3, 13. Dec. 1948. 100 C12Cag Insects as carriers.

Also in Calif. Citrog. 34: 88-89. Dec. 1948. 80 C125

7986 DU TOIT, J. J. Virus diseases of vegetables. (In Afrikaans.) Landbouweekblad 30(1515): 55. July 21, 1948. 24 L232

7987 GREEN, J. J. Virus diseases in plants. North. Gard. 2: 552-556. Nov. 1948. 80 N816

7988 HEBERT, T. T., and MIDDLETON, G. K. Mosaic of barley in North Carolina. Plant Dis. Rptr. 32: 435-436. Oct. 15, 1948. 1.9 P69P

7989 JOHNSON, F. H., BAYLOR, M. B., and FRASER, D. The thermal denaturation of tobacco mosaic virus in relation to hydrostatic pressure. Arch. Biochem. 19: 237-245. Ref. Nov. 1948. 381 Ar2

7990 KUNKEL, L. O. Studies on a new corn virus disease. Arch. f. die Gesam. Virus-Forsch. 4: 24-46. Ref. 1948. 448.3 Ar23

Stunt disease.

7991 LEACH, J. G. Severe local outbreak of aster yellows in West Virginia. Plant Dis. Rptr. 32: 451. Oct. 15, 1948. 1.9 P69P

On lettuce.

7992 LEONT'EV, I. F. Light and plant viruses. (In Russian.) Priroda 37(7): 50-51. July 1948. 410 P933

7993 LIMASSET, P., LEVIEIL, F., and SECHET, M. Influence d'une phytohormone de synthèse sur le développement des virus X et Y de la pomme de terre chez le tabac. Paris. Acad. des Sci. Compt. Rend. 227: 643-645. Sept. 27, 1948. 505 P21

7994 LOOMIS, N. H. Variegation "(Blakemore yellows)" in Klonmore strawberries. Plant Dis. Rptr. 32: 442. Oct. 15, 1948. 1.9 P69P

7995 MCKNIGHT, T. Crinkle virus disease of strawberry. Queensland Agr. J. 67: 102-104. Aug. 1948. 23 Q33

7996 MAGEE, C. J. Woodiness of mosaic disease of passion fruit. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 7, 5 p. 1948. 464.9 N47

7997 MOORE, J. D., BOYLE, J. S., and KEITT, G. W. Mechanical transmission of a virus disease to cucumber from sour cherry. Science 108: 623-624. Dec. 3, 1948. 470 Sci2

7998 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Big bud (rosette) of tomatoes and other plants. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 121, 5 p. 1948. 464.9 N47

Transmitted by *Erosius argentata*.

7999 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Spotted wilt and other virus diseases of tomatoes. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 37, 6 p. 1948.

8000 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Spotted wilt of Iceland poppies. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 67, 2 p. 1948. 464.9 N47

8001 NICHOLS, C. W. The little cherry situation in Idaho. Plant Dis. Rptr. 32: 433-434. Oct. 15, 1948. 1.9 P69P

8002 NICHOLS, C. W. Survey for little cherry disease in Idaho in 1948. Plant Dis. Rptr. 32: 434. Oct. 15, 1948. 1.9 P69P

8003 PLAKIDAS, A. G. Possibility of utilizing virus infection as a means of producing new varieties of Camellias. Amer. Camellia Ybk. 1948: 107-109. 97.31 Am32

8004 PLOPER, J. La peste negra del tomate y la peste blanca del pimiento. Rev. Mens. B. A. P. 31(369): 73, 75. Aug. 1948. 9 R326

8005 RIOLLANO, A., ADSUAR, J., and RODRÍGUEZ, A. Breeding peppers resistant to a Puerto Rican type of mosaic. Amer. Soc. Hort. Sci. Proc. 51: 415-416. June 1948. 81 Sol2

8006 RIOLLANO, A., ADSUAR, J., and RODRÍGUEZ CABRERA, A. La Estación Experimental Agrícola [Rio Piedras] desarrolla una nueva variedad de pimientos resistentes al mosaico típico de Puerto Rico. Rev. del Café 4(5): 10. Oct. 1948. 8 R3295

8007 ROBINSON, T. R. Insurance against a foreign invader [Tristeza]. Citrus Indus. 29(12): 14-15, 21. Dec. 1948.

8008 ROLAND, G. La transmission du virus de la jaunisse de la betterave par la semence. Parasitica 4: 30. 1948. 464.8 P21

8009 ROLAND, G. Les virus des taches bronzées de la tomate (*Lycopersicum* virus 3, Brittlebank) et de la mosaïque du concombre (*Cucumis* virus I, Doolittle) sur Dahlia. Parasitica 4: 98-102. 1948. 464.8 P21 Flemish summary.

8010 SCHENK, P. J. An outline on virus diseases. (In Dutch.) Floralia 67: 219-220. July 17, 1947. 80 F6613

8011 SEGRETAINE, G. Action de l'urée sur le virus de la mosaïque du tabac "in vivo." Rev. de Path. Vég. et d'Ent. Agr. de France 27: 98-101. Apr. 1948. 464.9 Sol

8012 SEVERIN, H. H. P., and TOMPKINS, C. M. Aphid transmission of cauliflower-mosaic virus. Hilgardia 18: 389-404. Ref. Sept. 1948. 100 C12H

8013 SEVERIN, H. H. P., and FREITAG, J. H. Outbreak of western cucumber mosaic on sugar beets. Hilgardia 18: 523-530. Nov. 1948. 100 C12H

8014 SEVERIN, H. H. P. Symptoms of additional cucumber-mosaic viruses on sugar beets. Hilgardia 18: 531-538. Nov. 1948. 100 C12H

8015 SILBERSCHMIDT, K. Accumulation and mobilization of starch in leaves of orange attacked by "tristeza." (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 295-322. Ref. Sept./Oct. 1948. 9.2 R324 English summary.



8016 SUKHOV, K. S. Virus of cancerous new growths in plants. (In Russian.) *Priroda* 37(8): 60-62. Aug. 1948. 410 P933

8017 VERHOEVEN, W. B. L. Potato culture problems. (In Dutch.) *Landbouwk. Tijdschr.* 59: 415-420. Oct./Nov. 1947. 105.2 Or3  
Includes control of virus diseases.

#### Diseases Caused by Nematodes

8018 ALLARD, R. W. Root-knot nematode; Westan variety of baby limas is highly resistant to the pest. *Calif. Agr. [Calif. Sta.]* 2(11): 9. Nov. 1948. 100 C12Cag

8019 BEEKENKAMP, G. Control of root nematodes by chemical means. (In Dutch.) *Groenten en Fruit* 4: 220. Oct. 14, 1948. 80 G89

8020 CASTELLANI, E. Ovarial galls of *Sporobolus brockmanni*. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 42: 150-153. Ref. July/Sept. 1948. 26 Ag82  
English summary.  
Nematodes.

8021 CHORIN, M., and MINZ, G. Nematodes on *Gladiolus* corms. *Palestine J. Bot., Rehovot Ser.* 6: 221-222. Dec. 1947. 450 P172

8022 ESTRADA R., N., and VILLAMIL G., F. Experimento de campo sobre el control de nematodos a base de D-D. *Agr. Trop.* 4(10): 37-40. Oct. 15, 1948. 26 Ag8

English summary.

8023 FOOTE, F. J., and GOWANS, K. D. The citrus nematode problem. *Down to Earth* 4(3): 14-15. Winter 1948. 381 D75

*Tylenchulus semipenetrans*.

8024 GARIBI, E. DEL V. Los nematelmintos en la agricultura y en la ganaderia. 3. *Chapingo* 23: 47-50. July 1948. 102 C36

8025 RASKI, D. J., and ALLEN, M. W. Sugar-beet nematode; identification and recommendations for control of the pest in California fields. *Calif. Agr. [Calif. Sta.]* 2(11): 8, 16. Nov. 1948. 100 C12Cag

8026 SIMON, M. La dissémination du nématode de la betterave dans les pays betteraviers. *Inst. Belge pour l'Amélior. de la Betterave*. P. 16: 223-240. Ref. July/Aug. 1948. 66.9 In7

English and Flemish summaries.

8027 VAN DER LINDE, W. J., SMITH, A. J., and NEETHLING, L. J. Control of eelworm, (with special reference to D-D). *Farming So. Africa* 23: 509-516, 546. Aug. 1948. 24 So842

8028 WILSON, C. Root-knot nematodes on peanuts in Alabama. *Plant Dis. Rptr.* 32: 443. Oct. 15, 1948. 1.9 P69P

#### ECOLOGY

8029 ADAMSON, R. S. Some geographical aspects of the Cape flora. *Roy. Soc. So. Africa. Trans.* 31: 437-464. Ref. Sept. 1948. 515 So8A

8030 ANDREWS, T. F. Temporary changes of certain limnological conditions in western Lake Erie produced by a windstorm. *Ecology* 29: 501-505. Oct. 1948. 410 Ec7

8031 BAUMGARTNER, L. L. Mixed chlorophenyl allyl carbonate, a new chemical herbicide for controlling plant succession. *North Amer. Wildlife Conf. Trans.* 13: 243-245. 1948. 412.9 N814

8032 BOYKO, H. The decisive role of direct sun-radiation in the distribution of *Quercus aegilops* L. in Palestine. *Palestine J. Bot., Rehovot Ser.* 6: 20-22. Dec. 1947. 450 P172

8033 BOYKO, H. A laurel forest in Palestine (*Lauretum quercetosum infectoriae*). *Palestine J. Bot., Rehovot Ser.* 6: 1-13. Ref. Dec. 1947. 450 P172

8034 CAMPOVASCO, J. Geografía de los grandes cultivos españoles. *Surco [Madrid]* 7(77): 18-19. July 1948. 15 Su7

8035 CHAMBERLAIN, E. B., JR. Ecological factors influencing the growth and management of certain waterfowl food plants on Back Bay [Virginia] National Wildlife Refuge. *North Amer. Wildlife Conf. Trans.* 13: 347-356. 1948. 412.9 N814

8036 CONWAY, V. M. Von Post's work on climatic rhythms. *New Phytol.* 47: 220-237. Ref. Oct. 1948. 450 N42

8037 DANSEREAU, P. Zonation et succession sur la restinga de Rio de Janeiro. 1. Halosère. *Montréal. U. Inst. de Biol. Gén. et de Zool. Contrib.* 20: 448-477. Ref. 1947. 410.9 M764

8038 EGGLE, W. A. Plant communities in the vicinity of the volcano El Parícutin, Mexico, after two and a half years of eruption. *Ecology* 29: 415-436. Ref. Oct. 1948. 410 Ec7

8039 FAUREL, L. Note sur la cédraie de l'Atlas de Blida (Algérie): ses sols et ses associations végétales. *Conf. Internat. de Pédol. Méditer. Compt. Rend.* 1947: 474-477. 1948. 56.09 C766

8040 HAUMAN, L., and others. La vegetación de la Argentina. Buenos Aires, "Coni," 1947. 349 p. 457.1 H29V

A. Burkart, L. R. Parodi, and A. L. Cabrera, joint authors.

8041 KALININA, A. V. Vegetation of the Chuiskaya Steppe in Altaï. (In Russian.) *Akad. Nauk SSSR. Bot. Inst. Trud. Ser. 3. Geobot.* 1948(5): 273-340. Ref. 1948. 451 Sa21G

An ecological study.

8042 KEIDEL, B. Rotbuchen vorkommen im Lungau. *Allg. Forst- u. Holzwirtschaft. Ztg.* 59: 156-157. Oct. 1948. 99.8 AL53

*Fagus sylvatica* and plant associations.

8043 KOSSARZ, W. Pflanzengeographische betrachtungen in Niederösterreich. *Allg. Forst- u. Holzwirtschaft. Ztg.* 59: 157-158. Oct. 1948. 99.8 AL53

8044 LI, H. L. Floristic significance and problems of eastern Asia. *Taiwania* 1: 1-5. May 1948. 450 T13

8045 MCCULLOUGH, H. A. Plant succession on fallen logs in a virgin spruce-fir forest. *Ecology* 29: 508-513. Oct. 1948. 410 Ec7

8046 MALYSHEV, A. A. Advancement of cultivated plants into the high mountainous zones of Northern Caucasus and into north-eastern Altaï. (In Russian.) *Vsesoiuzn. Geog. Obshch. Izv.* 80: 259-271. Ref. May/June 1948. 511 L546

8047 POPLAVSKAYA, G. I. Vegetation of mountainous Crimea. (In Russian.) *Akad. Nauk SSSR. Bot. Inst. Trud. Ser. 3. Geobot.* 1948(5): 7-88. Ref. 1948. 451 Sa21G

8048 RODIN, L. E. Data on the study of the vegetation of northern and Zaunguz Kara Kum Desert. (In Russian.) *Akad. Nauk SSSR. Bot. Inst. Trud. Ser. 3. Geobot.* 1948(5): 121-272. Ref. 1948. 451 Sa21G

An ecological study.

8049 SIGLER, W. F. Aquatic and shore vegetation of Spirit Lake, Dickinson County, Iowa. *Iowa State Col. J. Sci.* 23: 103-124. Ref. Oct. 1948. 470 Io9

8050 SØRENSEN, H. Studies on the ecology of Danish water- and bog mosses. *Dansk Bot. Arkiv* 12(10), 47 p. Ref. 1948. 450 D23

8051 SØRENSEN, T. A method of establishing groups of equal amplitude in plant sociology based on similarity of species content and its application to analyses of the vegetation on Danish commons. *Danske Vidensk. Selsk. Biol. Skr.* 5(4), 34 p. Ref. 1948. 442.9 D23B

8052 VOLOBUEV, V. R. Soil and phyto-climatic areas. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 98-108. 1948. 56.9 P44

8053 WEST, E. Why plants are tame or wild. *Fla. Grower* 56(11): 20-21. Nov. 1948. 80 F6622

8054 WICHT, C. L. A statistically designed experiment to test the effects of burning on a sclerophyll scrub community. 1. *Roy. Soc. So. Africa. Trans.* 31: 479-501. Ref. Sept. 1948. 515 So8A

8055 WRIGHT, J. C., and WRIGHT, E. A. Grassland types of south central Montana. *Ecology* 29: 449-460. Ref. Oct. 1948. 410 Ec7

8056 ZYKOV, I. V. Observations in regard to the origin of the "forest islands" in Kemerov Region. (In Russian.) *Priroda* 37(3): 62. Mar. 1948. 410 P933

#### MORPHOLOGY, ANATOMY, AND CYTOLOGY

8057 AMATO, F. D' Cytophological consequences of decapitation in onion roots. *Experientia* 4: 388. Oct. 15, 1948. 475 Ex7

8058 ASHBY, E. Studies in the morphogenesis of leaves. I-II. *New Phytol.* 47: 153-195. Ref. Oct. 1948. 450 N42

I. An essay on leaf shape; II. The area, cell size and cell number of leaves of *Ipomoea* in relation to their position on the shoot.

8059 BALL, E. Differentiation in the primary shoots of *Lupinus albus* L. and of *Tropaeolum majus* L. *Soc. Expt. Biol. Symposia* 2: 246-262. Ref. 1948. 442.9 Sol5



- 8060 BHIMESWAR, B., and KUMAR, S. Studies in the cytochemistry of yeasts. I. Estimation of total chromatin. *J. Sci. and Indus. Res.* 7B: 131-133. Sept. 1948. 475 J82
- 8061 BLASER, H. W., and EINSET, J. Leaf development in six periclinal chromosomal chimeras of apple varieties. *Amer. J. Bot.* 35: 473-482. Ref. Oct. 1948. 450 Am36
- 8062 BONNER, J., and BONNER, D. Note on induction of flowering in *Xanthium*. *Bot. Gaz.* 110: 154-156. Sept. 1948. 450 B652
- 8063 BUNNING, V. E., and SAGROMSKY, H. Die bildung des spaltöffnungsmusters in der blattepidermis. *7. f. Naturf.* 3b: 203-216. May/June 1948. 474 Z3
- 8064 CHEADLE, V. I., and UHL, N. W. Types of vascular bundles in the Monocotyledoneae and their relation to the late metaxylem conducting elements. *Amer. J. Bot.* 35: 486-496. Ref. Oct. 1948. 450 Am36
- 8065 COLEMAN, E. Interesting movement in scented *Alocasia*, *A. odora* (Roxb.) C. Koch, 1854. *Victorian Nat.* 65: 138-140. Oct. 1948. 410 V66
- 8066 COUCH, G. C., and RICE, E. L. Vegetative habit and reproduction of *Desmidium grevillei* (Kütz.) deBary. *Amer. J. Bot.* 35: 482-486. Ref. Oct. 1948. 450 Am36
- 8067 ESAU, K. Anatomic effects of the viruses of Pierce's disease and phony peach. *Hilgardia* 18: 423-482. Ref. Nov. 1948. 100 C12H
- 8068 FALKOWSKI, M. Morphological characters of red clovers of different provenience. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 328-358. Ref. 1948. 20.5 R59
- English summary.
- 8069 FILZER, P. Ein beitrag zur ökologischen anatomie von *Rhynia*. *Biol. Zentbl.* 67: 13-17. 1948. 442.8 B523
- English, French and Russian summaries.
- 8070 FLEISCHHAUER, E. Speicherorgane der pflanzen. *Kosmos* 43: 332-334. Oct. 1947. 474 K842
- 8071 GALLE, F. C., and NANK, E. E. Leaf patterns of *Cotoneasters*. *Amer. Nurseryman* 88(12): 10-11, 51-53. Dec. 15, 1948. 80 Am371
- 8072 GINDEL, I. Again on cambial activity of Aleppo pine (a reply to Dr. H. R. Oppenheimer's criticism). *Palestine J. Bot., Rehovot Ser.* 6: 23-26. Ref. Dec. 1947. 450 P172
- 8073 GROSS, F., and ZEUTHEN, E. The buoyancy of plankton diatoms: a problem of cell physiology. *Roy. Soc. London. Proc. Ser. B. Biol. Sci.* 135: 382-389. Ref. Oct. 26, 1948. 501 L84B
- 8074 HAMMEN, L. VAN DER. Traces of ancient dichotomies in angiosperms. *Blumea* 6: 290-301. Ref. 1947/48. 450 B62
- 8075 HAMNER, K. C. Factors governing the induction and development of reproductive structures in plants. *Soc. Expt. Biol. Symposia* 2: 104-116. Ref. 1948. 442.9 So15
- 8076 KÜHNER, R. *Thelephora pallida* Pers. est chiasobasidié. *Soc. Linn. de Lyon. B. Mens.* 16: 89-90. May 1947. 505 L992B
- 8077 KÜSTER, E. Über die eiweissspindeln von *Impatiens*. *Biol. Zentbl.* 67: 27-31. 1948. 442.8 B523
- English, French and Russian summaries.
- 8078 LAMI, R., SERPETTE, M., and PORTIER, J. Mouvement et sécrétion polaire chez deux algues des-midiées. *Rev. Gén. de Bot.* 54: 297-305. Ref. July 1947. 450 R326
- 8079 LAURIE, A., and DUFFY, J. Anatomical studies of the abscission of *Gardenia* buds. *Amer. Soc. Hort. Sci. Proc.* 51: 575-580. June 1948. 81 So12
- 8080 LEMESLE, R. Les divers types de tracheides et leurs principaux modes d'association chez les dicotylédones hétéroxylées. *Rev. Gén. de Bot.* 54: 326-335. Ref. July 1947. 450 R326
- 8081 LÖVE, A., and LÖVE, D. Chromosome numbers of northern plant species. *Reykjavík. Atvinnudeild Háskólans: Rit Landbúnaðardeildar, B-flokkur* 3, 131 p. Ref. 1948. 11 R33
- 8082 MAGROU, J., and MANIGAULT, P. Végétation des tumeurs expérimentales du *Pelargonium zonale* dans le champ magnétique. *Rev. de Path. Vég. et d'Ent. Agr. de France* 27: 65-71. Apr. 1948. 464.9 So1
- 8083 MICHAELIS, P. Über parallele modifikation, dauermodifikation und erbliche abänderung des plasmons. *Z. f. Naturf.* 3b: 196-202. May/June 1948. 474 Z3
- Experiments with *Epilobium*.
- 8084 MÜLLER-STOLL, W. R. Zytomorphologische studien am pollen von *Taxus baccata* L. und anderen koniferen. *Planta* 35: 601-641. Ref. 1948. 450 P963
- 8085 PROSKAUER, J. Studies on the morphology of *Anthoceros*. II. *Ann. Bot. [London] (n.s.)* 12: 427-439. Ref. Oct. 1948. 450 An7
- 8086 RADFORTH, N. W. Robert Boyd Thomson's morphological and phylogenetical studies bearing on gymnosperm taxonomy. *Bot. Gaz.* 110: 39-47. Ref. Sept. 1948. 450 B652
- 8087 RAINEY, R. C. Observations on the development of the cotton boll, with particular reference to changes in susceptibility to pests and diseases. *Empire Cotton Growing Corp. Res. Mem.* 5: 64-83. Ref. 1948. 72.9 Em7R
- 8088 RAO, J. T. Leaf mid-rib structure of sugarcane as correlated with resistance to the top-borer (*Scirpophaga nivella* F.). *Indian J. Agr. Sci.* 17: 203-210. Aug. 1947. 22 Ag831
- 8089 RICHARDS, F. J. The geometry of phyllotaxis and its origin. *Soc. Expt. Biol. Symposia* 2: 217-245. Ref. 1948. 442.9 So15
- 8090 RYAN, F. J. The germination of conidia from biochemical mutants of *Neurospora*. *Amer. J. Bot.* 35: 497-503. Oct. 1948. 450 Am36
- 8091 SANDERS, M. E. Embryo development in four *Datura* species following self and hybrid pollinations. *Amer. J. Bot.* 35: 525-532. Ref. Oct. 1948. 450 Am36
- 8092 SANTAMARIA PLAYA, R. Ontogenia y morfología del maza. *Chapingo* 23: 36-39, 58. July 1948. 102 C36
- 8093 SCHUMACHER, A. Beitrag zur kenntnis des stofftransportes in dem siebröhrensystem höherer pflanzen. *Planta* 35: 642-700. Ref. 1948. 450 P963
- 8094 SEMENOVA-TIAN-SHANSKAJA, A. M. Root systems of sub-alpine meadow plants in South Ossetia. (In Russian.) *Akad. Nauk SSSR. Bot. Inst. Trud. Ser. 3. Geobot.* 1948(5): 89-119. Ref. 1948. 451 Sa21G
- 8095 SNOW, M., and SNOW, R. On the determination of leaves. *Soc. Expt. Biol. Symposia* 2: 263-275. Ref. 1948. 442.9 So15
- 8096 SOUEGES, R. Embryogénie des Papilionacées. Développement de l'embryon chez le *Pisum sativum* L. *Paris. Acad. des Sci. Compt. Rend.* 227: 802-804. Oct. 27, 1948. 505 P21
- 8097 STEPHENS, S. G. A new interpretation of panicle morphology based on a study of a dwarf mutant in corn. (Abs.) *Genet. Soc. Amer. Rec.* 17: 59. 1948. 442.9 G28
- 8098 THODAY, J. M. A note on cell division in the desmid *Cosmarium meneghinii*. *New Phytol.* 47: 292-293. Oct. 1948. 450 N42
- 8099 VENKATARAYAN, S. V. The orientation of the seeds in species of *Coffea* Linn. in Mysore. *Indian J. Agr. Sci.* 17: 289-290. Ref. Oct. 1947. 22 Ag831
- 8100 WARDLAW, C. W. Experimental and analytical studies of pteridophytes. XIII. On the shoot apex in a tree fern, *Cyathea manniana* Hooker. *Ann. Bot. [London] (n.s.)* 12: 371-384. Ref. Oct. 1948. 450 An7
- 8101 WARDLAW, C. W. Experimental morphology with special reference to pteridophytes. *Soc. Expt. Biol. Symposia* 2: 276-285. Ref. 1948. 442.9 So15
- 8102 WILKINSON, A. M. Floral anatomy and morphology of some species of the genus *Viburnum* of the Caprifoliaceae. *Amer. J. Bot.* 35: 455-465. Oct. 1948. 450 Am36
- 8103 WILLIAMS, W. T. The continuity of intercellular spaces in the leaf of *Pelargonium zonale*, and its bearing on recent stomatal investigations. *Ann. Bot. [London] (n.s.)* 12: 411-420. Ref. Oct. 1948. 450 An7
- 8104 WITHNER, C. L., and VAN CAMP, J. Orchid leaf analyses. *Amer. Orchid Soc. B.* 17: 662-663. Nov. 1948. 80 Am329
- 8105 WYLIE, R. B. The dominant rôle of the epidermis in leaves of *Adiantum*. *Amer. J. Bot.* 35: 465-473. Ref. Oct. 1948. 450 Am36

## GENETICS

- 8106 AVERY, A. G., and BLAKESLEE, A. F. Effect of extra chromosomes on shape of stigma of *Datura stramonium*. (Abs.) *Genet. Soc. Amer. Rec.* 17: 30. 1948. 442.9 G28
- 8107 BAUCH, R. Irreversible chromosomenschädigungen durch trypanflavin. *Planta* 35: 536-554. Ref. 1948. 450 P963
- Experiments with onion roots.



- 8108 BECKER, G. Die wichtigsten aufgaben der deutschen pflanzenzucht. Deut. Landw. Gesell. Arb. (n. s.) 1: 79-96. 1947. 18 D48
- 8109 BLARINGHEM, L. Descendance singulière du cerisier à fleurs doubles *Cerasus avium* L. f. plena C. K. Schneider. Paris. Acad. des Sci. Compt. Rend. 227: 799-802. Oct. 27, 1948. 505 P21
- 8110 BOWDEN, W. M. Cyto-genetic studies on a trispecies *Lobelia* hybrid and its colchicine-induced tetraploid derivatives. (Abs.) Genet. Soc. Amer. Rec. 17: 31-32. 1948. 442.9 G28
- 8111 BURNHAM, C. R. Chromosome segregation in translocations involving chromosome 6 in maize. (Abs.) Genet. Soc. Amer. Rec. 17: 32-33. 1948. 442.9 G28
- 8112 CONGER, A. D. The cytogenetic effect of sonic energy applied simultaneously with X-rays. (Abs.) Genet. Soc. Amer. Rec. 17: 34-35. 1948. 442.9 G28  
*Tradescantia paludosa*.
- 8113 DARMER, G. Rassenbildung bei *Hippophae rhamnoides* (Sanddorn). Biol. Zentbl. 66: 166-170. Ref. 1947. 442.8 B523
- 8114 DAWSON, R. F. *Cinchona* polyploids. Lloydia 11: 81-85. Ref. June 1948. 442.8 L77
- 8115 DENMARK. STATENS PLANTEAVLSUDVALG. Report of the State Plant Breeding Committee for the financial year 1947-48. (In Danish.) København, 1948. 88 p. 11 D412A
- 8116 DUNCAN, R. E., and ROSS, J. G. Nuclei of maize endosperm. (Abs.) Genet. Soc. Amer. Rec. 17: 36. 1948. 442.9 G28
- 8117 EINSET, J. The occurrence of spontaneous triploids and tetraploids in apples. Amer. Soc. Hort. Sci. Proc. 51: 61-63. June 1948. 81 Sol2
- 8118 EVERETT, H. L. Normal and abnormal chloroplast production in *Zea mays*. (Abs.) Genet. Soc. Amer. Rec. 17: 36-37. 1948. 442.9 G28
- 8119 FABERGE, A. C. Chromosome aberrations in *Tradescantia* produced by X-ray treatment at liquid air temperature. (Abs.) Genet. Soc. Amer. Rec. 17: 37. 1948. 442.9 G28
- 8120 FREY, K. J. Inheritance of protein, zein, tryptophan, valine, leucine, and isoleucine in two maize hybrids. Iowa State Col. J. Sci. 23: 33-35. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 8121 GILES, N. H., JR., FLYNN, A. E., and GILES, D. L. Induced reversions of inositol-requiring mutants in *Neurospora crassa*. (Abs.) Genet. Soc. Amer. Rec. 17: 38-39. 1948. 442.9 G28
- 8122 HAUSSMANN, G. Graft-hybrids in recent Soviet experiments. (In Italian.) Humus 4(3): 9-12. Mar. 1948. 16 H88
- 8123 HENRY, P. Un mutant chez le palmier à huile: l'*Elaeis vivipare*. Oléagineux 3: 546. Nov. 1948. 77.8 CL2
- 8124 JEFFERY, E. C. Hormones in relation to parthenogenesis. (Abs.) Genet. Soc. Amer. Rec. 17: 43. 1948. 442.9 G28  
*Trillium* and *Tradescantia*.
- 8125 KELLER, K. R. A comparison involving the numbers of, and relationship between testers in evaluating inbred lines of maize. Iowa State Col. J. Sci. 23: 46-47. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 8126 KHAMBANONDA, I. Polygenic inheritance of fruit size in red pepper (*Capsicum frutescens* L.). Iowa State Col. J. Sci. 23: 48-49. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 8127 KING, E. L., and PADDOCK, E. F. Triploidy in *Rhoeo discolor* Hance. (Abs.) Genet. Soc. Amer. Rec. 17: 44-45. 1948. 442.9 G28
- 8128 LEBEDEV, D. V. Biochemical mutations in *Penicillium*. (In Russian.) Priroda 37(5): 50. May 1948. 410 P933
- 8129 LEBEDEV, D. V. Monohybrid heterosis in self-pollinated plants. (In Russian.) Priroda 37(5): 52. May 1948. 410 P933
- 8130 LEBEDEV, D. V. Nature of biochemical mutations in bacteria. (In Russian.) Priroda 37(5): 51-52. Ref. May 1948. 410 P933
- 8131 LEBEDEV, D. V. New data on the heterosis theory. (In Russian.) Priroda 37(3): 74-75. Ref. Mar. 1948. 410 P933  
Experiments with corn.
- 8132 LEBEDEV, D. V. Reproduction and genetic structure of bacteria. (In Russian.) Priroda 37(8): 71-72. Aug. 1948. 410 P933
- 8133 MARTIN, V. C. The inheritance of style length in the trimorphic species *Oxalis valdiviensis*. (Abs.) Heredity 2: 278. Sept. 1948. 443.8 H42
- 8134 MAURER, K. J. Was sind "diploide" und "triploide" sorten. Gartenjahr 8: 98-100. July 1948. 80 G1932
- 8135 MITCHELL, H. K., HOULAHAN, M. B., and LEIN, J. Some aspects of genetic control of tryptophane metabolism in *Neurospora*. (Abs.) Genet. Soc. Amer. Rec. 17: 49-50. 1948. 442.9 G28
- 8136 OEHLKERS, F. Genetisch-physiologische untersuchungen zum vitalitätsproblem II. Biol. Zentbl. 67: 45-52. 1948. 442.8 B523  
English, French and Russian summaries.  
Experiments with *Oenothera*.
- 8137 O'MARA, J. G. Fertility in allopolyploids. (Abs.) Genet. Soc. Amer. Rec. 17: 52. 1948. 442.9 G28  
New allopolyploid combination *Triticum durum*-*Secale cereale*.
- 8138 PAULEY, S. S. Sex and its relation to vigor in *Populus*. (Abs.) Genet. Soc. Amer. Rec. 17: 53. 1948. 442.9 G28
- 8139 PHINNEY, B. O. Cysteine mutants in *Neurospora*. (Abs.) Genet. Soc. Amer. Rec. 17: 53. 1948. 442.9 G28
- 8140 RENNER, O. Die cytologischen grundlagen des crossing-over bei *Oenothera*. Z. f. Naturf. 3b: 188-196. May/June 1948. 474 Z3
- 8141 RICHHARIA, R. H. Sex condition in inter-specific cross, *Luffa aegyptiaca* x *Luffa acutangula*. Cur. Sci. 17: 275-276. Sept. 1948. 475 Sci23
- 8142 RILEY, H. P. The "eyebrow" gene in *Nemisia strumosa*. J. Hered. 39: 170-172. June 1948. 442.8 Am3
- 8143 ROBINSON, H. F., COMSTOCK, R. E., and HARVEY, P. H. The characterization of genotypic variances in corn. (Abs.) Genet. Soc. Amer. Rec. 17: 54-55. 1948. 442.9 G28
- 8144 ROHMEDEER, E. Die vererbung der austreibzeit bei fichteneinzelstämmen. Forstwiss. Centbl. 67: 32-38. Oct. 1948. 99.8 F775
- 8145 SAMPATH, S., and KRISHNASWAMY, V. A chromosome deficient paddy type. Cur. Sci. 17: 271-272. Sept. 1948. 475 Sci23
- 8146 SANZ DE CORTAZAR, C. Observaciones cromosomales en seis especies chilenas. Chile. Dir. Gen. de Agr. Agr. Tec. 8: 28-35. Ref. June 1948. 464.9 C432B  
English summary.  
Plants.
- 8147 SHOWALTER, A. M. Inheritance of fruit shape in a variety of *Cucurbita moschata*. (Abs.) Genet. Soc. Amer. Rec. 17: 57. 1948. 442.9 G28
- 8148 SIMLOTE, K. M. An application of discriminant function for selection in durum wheats. Indian J. Agr. Sci. 17: 269-280. Ref. Oct. 1947. 22 Ag831
- 8149 SMITH, B. W. Hybridity and apomixis in the perennial grass, *Paspalum dilatatum*. (Abs.) Genet. Soc. Amer. Rec. 17: 57-58. 1948. 442.9 G28
- 8150 SMITH, L., and others. Linkage studies in einkorn. Amer. Soc. Agron. J. 40: 862-873. Ref. Oct. 1948. 4 Am34P  
A. H. Moseman, K. T. Payne, and D. E. Weibel, joint authors.
- 8151 STEINITZ, L. M. A comparative study of chromosomes of *Hemizonia virgata*, Gray, under greenhouse conditions and in sterile culture. (Abs.) Genet. Soc. Amer. Rec. 17: 59. 1948. 442.9 G28
- 8152 STEPHENS, S. G. Gene divergence in the control of flower pigmentation in cotton. (Abs.) Genet. Soc. Amer. Rec. 17: 59. 1948. 442.9 G28
- 8153 TAYLOR, J. H. Chromosome behavior and structure as revealed by meiosis in cultures of excised anthers [from a clone of *Tradescantia paludosa*]. (Abs.) Genet. Soc. Amer. Rec. 17: 60. 1948. 442.9 G28
- 8154 TEAS, H. J. The genetics of threonine requiring mutants of *Neurospora crassa*. (Abs.) Genet. Soc. Amer. Rec. 17: 61. 1948. 442.9 G28
- 8155 TOXOPEUS, H. J. Botanical research in aid of plant breeding. (In Dutch.) Landbouwk. Tijdschr. 59: 328-336. Ref. Aug./Sept. 1947. 105.2 Or3
- 8156 VAARAMA, A. Cryptic polyploidy and variation of chromosome number in *Ribes nigrum*. Nature [London] 162: 782. Nov. 13, 1948. 472 N21
- 8157 WEBER, C. R. Inheritance and interrelation of some agronomic and chemical characters in an inter-specific cross in soybeans, *Glycine max* x *G. ussuriensis*. Iowa State Col. J. Sci. 23: 89-90. Oct. 1948. 470 Io9



8158 WESTERGAARD, M. The aspects of polyploidy in the genus *Solanum*. III. Seed production in autopolyploid and allopolyploid *Solanums*. *Danske Vidensk. Selsk. Biol. Meddel.* 18(3), 18 p. 1948. 442.9 D23

8159 ZECHMEISTER, L., and WENT, F. W. Some stereochemical aspects in genetics. *Nature* [London] 162: 847-848. Nov. 27, 1948. 472 N21  
Illustrated by plants.

## PHYSIOLOGY

8160 ALBAN, E. K., and KEIRNS, V. E. The effect of rotenone, commercial, and aerosol grade DDT dusts on the total yield, grade, and maturity of seven cucurbit varieties. *Amer. Soc. Hort. Sci. Proc.* 51: 448-452. June 1948. 81 So12

8161 ALGEUS, S. Glycocoll as a source of nitrogen for *Scenedesmus obliquus*. *Physiol. Plant.* 1: 65-84. Ref. 1948. 450 P564

8162 ANTOINE. Pour comprendre les phénomènes généraux de reproduction chez les plantes à fleurs. *Soc. d'Hort. et d'Acclim. du Maroc. B.* 33: 59-64. Second Quart. 1948. 81 So2

8163 ARCENEUX, G. The effects of 2-4-D on the sugarcane plant. *Sugar B.* 27: 68. Dec. 1, 1948. 65.9 Am32

8164 ATKINSON, J. D. Cracked-stem of celery (*Apium graveolens* L.) New Zeal. *J. Sci. and Technol.* A. Agr. Res. Sect. 29: 261-264. Feb. 1948. 514 N48A

8165 AUBIN, L. Note sur un essai d'hormones dénommées "Kling-tite" pour éviter la chute des fruits. *Cong. Pomol. de France. Sess.* 78: 196-197. 1947. 93.09 C7643

8166 AUDUS, L. J. Nicotinic acid and the inhibition of growth by auxin. *Nature* [London] 162: 811-812. Nov. 20, 1948. 472 N21

8167 AUDUS, L. J. Studies on the phytostatic action of 2,4-dichlorophenoxyacetic acid and coumarin: the reversibility of root-growth inhibitions. *New Phytol.* 47: 196-219. Ref. Oct. 1948. 450 N42

8168 BACHOFER, C. S. Histological responses of bean plants to alpha-naphthyl methyl acetate. *Bot. Gaz.* 110: 119-138. Ref. Sept. 1948. 450 B652

8169 BANNAN, M. W. Tetraploid *Taraxacum kok-saghyz*. V. Cell size. *Amer. J. Bot.* 35: 532-539. Ref. Oct. 1948. 450 Am36

8170 BARBIER, G. Guérison, au moins partielle, d'une maladie des pommiers du Palatinat par application de zinc. *Acad. d'Agr. de France. Compt. Rend.* 34: 786-787. June 30/July 7, 1948. 14 P215Bc

8171 BARTHOLOMEW, E. T. Como se lucha en California contra la granulación de la naranja valencia. *Campesino* [Santiago] 80(8): 53. Aug. 1948. 9.3 So12

8172 BATJER, L. P., THOMPSON, A. H., and GERHARDT, F. A comparison of naphthaleneacetic acid and 2,4-dichlorophenoxyacetic acid sprays for controlling pre-harvest drop of Bartlett pears. *Amer. Soc. Hort. Sci. Proc.* 51: 71-74. June 1948. 81 So12

8173 BATJER, L. P., and THOMPSON, A. H. The transmission of effect of naphthaleneacetic acid on apple drop as determined by localized applications. *Amer. Soc. Hort. Sci. Proc.* 51: 77-80. June 1948. 81 So12

8174 BEATTIE, J. M. Carbohydrates in apple shoots and twigs and their relation to nitrogen fertilization, yield, growth, and fruit color. *Amer. Soc. Hort. Sci. Proc.* 51: 33-40. June 1948. 81 So12

8175 BERZAGHI, M. N. Calcium in plant physiology. (In Portuguese.) *Bolsa de Mercadorias de São Paulo. B. de Inform.* 285: 7917. Nov. 3, 1948. 287 B633B

8176 BERZAGHI, M. N. Plant radiobiology. (In Portuguese.) *Bolsa de Mercadorias de São Paulo. B. de Inform.* 284: 7883. Oct. 16, 1948. 287 B633B

8177 BONNICEL, R. Les hormones américaines - résultats de 1948. *Soc. d'Études de Vente et d'Achat des Prod. de Pommes de Terre du Nord-Est. B. de Doc. ... C* Int. 36: 3-7. Oct. 1948. 75.9 So1

8178 BORTHWICK, H. A., HENDRICKS, S. B., and PARKER, M. W. Action spectrum for photoperiodic control of floral initiation of a long-day plant, Wintex barley (*Hordeum vulgare*). *Bot. Gaz.* 110: 103-118. Ref. Sept. 1948. 450 B652

8179 BOURDON, D., COTTE, J., and TSVETOUK-HINE, V. Effets de la carence de potasse sur le développement des plantes cultivées et sur l'évolution du potassium échangeable du sol. *Acad. d'Agr. de France. Compt. Rend.* 34: 777-780. June 30/July 7, 1948. 14 P215Bc

8180 BOYSEN-JENSEN, P. A determination theory. *Physiol. Plant.* 1: 156-169. Ref. 1948. 450 P564

Cell development.

8181 BRANDES, E. W., and VAN OVERBEEK, J. Auxin relations in hot-water-treated sugarcane stems. *J. Agr. Res.* 77: 223-238. Ref. Oct. 1/15, 1948. 1 Ag84J

8182 BRIAN, P. W., JAMIESON, M., and MCGOWAN, J. C. Toxicity of sulphhydryl compounds to seeds. *Nature* [London] 162: 780. Nov. 13, 1948. 472 N21

8183 BRIERLEY, W. G. Preliminary report of an informal cooperative study of rest in the Latham raspberry. *Amer. Soc. Hort. Sci. Proc.* 51: 316-318. June 1948. 81 So12

8184 BRIGGS, G. E., and ROBERTSON, R. N. Diffusion and absorption in disks of plant tissue. *New Phytol.* 47: 265-283. Ref. Oct. 1948. 450 N42

8185 BULLOCK, R. M., and BENSON, N. R. Boron deficiency in apricots. *Amer. Soc. Hort. Sci. Proc.* 51: 199-204. June 1948. 81 So12

8186 BÜNNING, E. Über die beschleunigung des blühens in tropischen gebirgen. *Biol. Zentbl.* 67: 3-6. Ref. 1948. 442.8 B523

English, French and Russian summaries.

8187 BURSTRÖM, H. The rate of the nutrient transport to swelling buds of trees. *Physiol. Plant.* 1: 124-135. 1948. 450 P564

8188 BURSTRÖM, H. A theoretical interpretation of the turgor pressure. *Physiol. Plant.* 1: 57-64. Ref. 1948. 450 P564

8189 CAIN, J. C., and BOYNTON, D. Some effects of season, fruit crop and nitrogen fertilization on the McIntosh apple leaves. *Amer. Soc. Hort. Sci. Proc.* 51: 13-22. Ref. June 1948. 81 So12

8190 CAPLIN, S. M., and STEWARD, F. C. Effect of coconut milk on the growth of explants from carrot root. *Science* 108: 655-657. Ref. Dec. 10, 1948. 470 Sci2

8191 CAREW, J., and THOMPSON, H. C. A study of certain factors affecting "buttoning" of cauliflower. *Amer. Soc. Hort. Sci. Proc.* 51: 406-414. June 1948. 81 So12

8192 CHAPMAN, R. K., and ALLEN, T. C. Stimulation and suppression of some vegetable plants by DDT. *J. Econ. Ent.* 41: 616-623. Aug. 1948. 421 J822

8193 CHAPPELL, W. E. The effect of some weed control practices on the yield and keeping quality of onions. *Amer. Soc. Hort. Sci. Proc.* 51: 497-500. June 1948. 81 So12

8194 CHARGAFF, E., STEWART, R. N., and MAGASANIK, B. Inhibition of mitotic poisoning by meso-inositol. *Science* 108: 556-558. Nov. 19, 1948. 470 Sci2

In onions.

8195 CHILDS, J. F. L. A method of maintaining viability of citrus seed in storage. *Citrus Indus.* 29(12): 16-18, 20-21. Dec. 1948. 80 C49

8196 CLAYPOOL, L. L., and ALLEN, F. W. Carbon dioxide production of deciduous fruits held at different oxygen levels during transit periods. *Amer. Soc. Hort. Sci. Proc.* 51: 103-113. June 1948. 81 So12

8197 CLORE, W. J. The effect of alpha-naphthaleneacetic acid on certain varieties of lima beans. *Amer. Soc. Hort. Sci. Proc.* 51: 475-478. June 1948. 81 So12

8198 COOK, A. H., ELVIDGE, J. A., and HEILBRON, SIR I. Fertilization, including chemotactic phenomena in the Fucaceae. *Roy. Soc. London. Proc. Ser. B. Biol. Sci.* 135: 293-301. Oct. 26, 1948. 501 L84B

8199 COOPER, H. P. The selective accumulation and selective exclusion of some nutrients by certain tissues of crop plants. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 141-142. 1948. 4 C82

8200 COQUILLAT, De l'influence attribuée à la lune sur les végétaux. *Soc. Linn. de Lyon. B. Mens.* 16: 59-63. Ref. Mar. 1947. 505 L992B

8201 CORTVRIENDT, S. F., and ONSEM, J. G. VAN. Les hormones et leurs applications principales dans l'horticulture. *Rev. de l'Agr.* 1: 575-577. July/Aug. 1948. 13 R322

8202 CREECH, J. L. Propagation of *Metasequoia* by juvenile cuttings. *Science* 108: 664-665. Dec. 10, 1948. 470 Sci2

8203 CROCIONI, A. Seed germination tests by the staining method. (In Italian.) *Humus* 3(8): 15-16. Aug. 1947. 16 H88



- 8204 DAJI, J. A. Manganese toxicity as a probable cause of the band disease of Areca palm. *Cur. Sci.* 17: 259-260. Sept. 1948. 475 Sci23
- 8205 DANILOV, M. D. Winter transpiration of one-year old shoots in *Phellodendron amurense* of various ages. (In Russian.) *Priroda* 37(5): 44-45. Ref. May 1948. 410 P933
- 8206 DASTUR, R. H. Investigations on the red leaf disease in American cottons. I. *Indian J. Agr. Sci.* 17: 235-244. Ref. Oct. 1947. 22 Ag831
- 8207 DAVISON, J. R. Lime-induced chlorosis of fruit trees on the Murrumbidgee Irrigation area. *Agr. Gaz. N. S. Wales* 59: 410-413. Aug. 1948. 23 N472
- 8208 DEBRAUX, G. Transformation expérimentale de la nervure en tige chez la feuille de vigne isolée en survie. *Paris. Acad. des Sci. Compt. Rend.* 227: 860-862 Oct. 27, 1948. 505 P21
- 8209 DELBRÜCK, M., and DELBRÜCK, M. B. Bacterial viruses and sex. *Sci. Amer.* 179(5): 46-51. Nov. 1948. 470 Sci25
- 8210 DENFFER, D. V. Über einen wachstumshemmstoff in alternden diatomeenkulturen. *Biol. Zentbl.* 67: 7-13. Ref. 1948. 442.8 B523  
English, French and Russian summaries.
- 8211 DENISEN, E. L. Tomato color as influenced by variety and environment. *Amer. Soc. Hort. Sci. Proc.* 51: 349-356. Ref. June 1948. 81 Sol2
- 8212 DICKEY, R. D., DROSDOFF, M., and HAMILTON, J. Copper deficiency of tung in Florida. *Fla. Agr. Expt. Sta. B.* 447, 32 p. Ref. Sept. 1948. 100 F66S
- 8213 DOROKHOVA, N. A. Mycotrophic nutrition of wheat. (In Russian.) *Moskov. Ordena Lenina Sel'sko-khoz. Akad. im. K. A. Timiriāzeva. Dok.* 7: 24-27. 1948. 20 M857  
Effect of fungi on growth of wheat sprouts.
- 8214 DRAWERT, H. Beiträge zur stimulation des pflanzenwachstums. I. Der einfluss von extrakten aus *folia Digitalis* auf die keimung der fruchte von *Cichorium endivia* L. *Planta* 35: 555-578. Ref. 1948. 450 P963
- 8215 DRAWERT, H. Zur frage der stoffaufnahme durch die lebende pflanzliche zelle. IV. Der einfluss der wasserstoffionenkonzentration des zellsaftes und des aussenmediums auf die harnstoffaufnahme. *Planta* 35: 579-600. Ref. 1948. 450 P963
- 8216 EDGERTON, L. J., and HOFFMAN, M. B. Tests with 2,4-dichlorophenoxyacetic acid for delaying fruit drop of McIntosh. *Amer. Soc. Hort. Sci. Proc.* 51: 67-70. June 1948. 81 Sol2
- 8217 EHRENCRON, V. K. R. The unfavorable effect of sulfurous waste water [from factories] on soil in rice fields and fish ponds. (In Dutch.) *Landbouw* 20: 291-298. Ref. June/July 1948. 22.5 L23
- 8218 EKBOTE, R. B. Vernalization, an aid in crop breeding. *Indian J. Agr. Sci.* 17: 301. Oct. 1947. 22 Ag831
- 8219 ELLIS, N. K., and BULLARD, E. T. Varietal response of sweet corn to 2,4-D spray, and the effect of different formulations of 2,4-D on yield. *Amer. Soc. Hort. Sci. Proc.* 51: 505-508. June 1948. 81 Sol2
- 8220 ELLISON, J. H., and SMITH, O. Effects of spraying a sprout inhibitor on potato plants in the field. *Amer. Soc. Hort. Sci. Proc.* 51: 397-400. June 1948. 81 Sol2
- 8221 ELZE, D. L. A growth study of the Jaffa orange. *Palestine J. Bot., Rehovot Ser.* 6: 27-42. Ref. Dec. 1947. 450 P172
- 8222 EMSWELLER, S. L., and STUART, N. W. Use of growth regulating substances to overcome incompatibilities in *Lilium*. *Amer. Soc. Hort. Sci. Proc.* 51: 581-589. Ref. June 1948. 81 Sol2
- 8223 EVANS, H. J., and PURVIS, E. R. An instance of manganese deficiency of alfalfa and red clover in New Jersey. *Amer. Soc. Agron. J.* 40: 1046-1047. Nov. 1948. 4 Am34P
- 8224 EVREINOFF. Quelques observations sur la biologie du pêcher. *Cong. Pomol. de France. Sess.* 78: 87-98. 1947. 93.09 C7643
- 8225 FIDLER, J. C. The conserving influence of oxygen on respirable substrate. *Ann. Bot. [London] (n.s.)* 12: 421-426. Ref. Oct. 1948. 450 An7  
In fruit.
- 8226 FISCHER, H. Plasmolyseform und mineral-salzgehalt in alternden blättern. I. Untersuchungen an *Helodea* und *Fontinalis*. *Planta* 35: 513-527. Ref. 1948. 450 P963
- 8227 FRANKLIN, D. F. Using hormone sprays to facilitate bolting and seed production of hard-headed lettuce varieties. *Amer. Soc. Hort. Sci. Proc.* 51: 453-456. June 1948. 81 Sol2
- 8228 FRIES, L. Mutations induced in *Coprinus fimetarius* (L.) by nitrogen mustard. *Nature [London]* 162: 846-847. Nov. 27, 1948. 472 N21
- 8229 GABRIELSEN, E. K. Effects of different chlorophyll concentrations on photosynthesis in foliage leaves. *Physiol. Plant.* 1: 5-37. Ref. 1948. 450 P564
- 8230 GABRIELSEN, E. K. Influence of light of different wave-lengths on photosynthesis in foliage leaves. *Physiol. Plant.* 1: 113-123. Ref. 1948. 450 P564
- 8231 GALINSKY, I. The effect of certain phosphates on mitosis [of *Allium cepa* roots]. (Abs.) *Genet. Soc. Amer. Rec.* 17: 38. 1948. 442.9 G28
- 8232 GAL'PERN, G. D. Geotropism in the bodies of higher fungi. (In Russian.) *Priroda* 37(4): 52-53. Apr. 1948. 410 P933
- 8233 GEST, H., and KAMEN, M. D. Studies on the phosphorus metabolism of green algae and purple bacteria in relation to photosynthesis. *J. Biol. Chem.* 176(1): 299-318. Ref. Oct. 1948. 321 J824
- 8234 GIST, G. R., and SMITH, R. M. Root development of several common forage grasses to a depth of eighteen inches. *Amer. Soc. Agron. J.* 40: 1036-1042. Ref. Nov. 1948. 4 Am34P
- 8235 GOLDSWORTHY, M. C. Effect of technical DDT, incorporated in quartz sand and soils, on the growth of peach trees. *Plant Dis. Rptr.* 32: 437-441. Oct. 15, 1948. 1.9 P69P
- 8236 GREGORY, F. G. The control of flowering in plants. *Soc. Expt. Biol. Symposia* 2: 75-103. Ref. 1948. 442.9 Sol5
- 8237 GROSSBERG, J. The influence of small quantities of soluble humus substances on the crop of some plants and their mineral contents. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 31-50. Ref. 1948. 20.5 R59  
English summary.
- 8238 GRUSHVITSKIĬ, I. V. Negative geotropism of roots in *Osmunda cinnamomea* L. according to observations in Ussuri Region. (In Russian.) *Priroda* 37(6): 61. June 1948. 410 P933
- 8239 GULISASHVILI, V. Z. Disturbance of dormancy, periodicity of vegetation and rhythm of growth in some trees under artificial light conditions of culture. (In Russian.) *Priroda* 37(3): 63-66. Ref. Mar. 1948. 410 P933
- 8240 GUY, R. Rôle des hormones contre la chute des fruits. *Cong. Pomol. de France. Sess.* 78: 183-195. 1947. 93.09 C7643
- 8241 HAAS, A. R. C. Blossom opening and orange production. *Calif. Citrog.* 34: 57, 72-73. Dec. 1948. 80 C125
- 8242 HANSEN, C. J. Influence of the rootstock on injury from excess boron in French (Agen) prune and President plum. *Amer. Soc. Hort. Sci. Proc.* 51: 239-244. June 1948. 81 Sol2
- 8243 HARDENBURG, E. V., and ETO, W. H. The role of snakehead plants in beans. *Amer. Soc. Hort. Sci. Proc.* 51: 486-492. Ref. June 1948. 81 Sol2
- 8244 HARDER, R., and SPRINGORUM, B. Beobachtungen über metaplasin- und blüthormonwirkungen bei *Rudbeckia*. *Biol. Zentbl.* 66: 147-165. Ref. 1947. 442.8 B523
- 8245 HARDER, R. Vegetative and reproductive development of *Kalanchoe blossfeldiana* as influenced by photoperiodism. *Soc. Expt. Biol. Symposia* 2: 117-138. Ref. 1948. 442.9 Sol5
- 8246 HARTMANN, H. T. Growth of olive fruit follows three-period growth pattern of other stone fruits. *Calif. Agr. [Calif. Sta.]* 2(12): 7, 12. Dec. 1948. 100 C12Cag
- 8247 HASEK, R. F. Observation on *Gardenia* flower production at high air and soil temperatures. *Amer. Soc. Hort. Sci. Proc.* 51: 610-612. June 1948. 81 Sol2
- 8248 HASSID, W. Z. Radioactive sugars synthesized for studies in the metabolism of plants and animals. *Calif. Agr. [Calif. Sta.]* 2(12): 11, 14. Dec. 1948. 100 C12Cag
- 8249 HAUSEN, S. S. V. On the role of growth substances in higher plants. *Physiol. Plant.* 1: 85-94. Ref. 1948. 450 P564
- 8250 HEATH, O. V. S., and HOLDSWORTH, M. Morphogenic factors as exemplified by the onion plant. *Soc. Expt. Biol. Symposia* 2: 326-350. Ref. 442.9 Sol5
- 8251 HELLER, R. De l'influence de la concentration en ions potassium du milieu sur la croissance des cultures de tissus végétaux. *Soc. de Biol. Compt. Rend.* 142: 949-952. July 1948. 442.9 P21



- 8252 HELLER, R. Sur la carence en potassium des cultures de tissus végétaux. Soc. de Biol. Compt. Rend. 142: 947-949. July 1948. 442.9 P21
- 8253 HEMPHILL, D. D., and MURNEEK, A. E. A preliminary study of the effect of axillary foliage on yield of tomatoes. Amer. Soc. Hort. Sci. Proc. 51: 359-361. June 1948. 81 So12
- 8254 HENRICI, M. Transpiration studies. So. African Sci. 2: 36-38. Sept. 1948. 475 So8
- 8255 HIORTH, G. Über drei allotrisome typen sowie eine interspezifische translokation aus *Godetia whitneyi* x *G. deflexa*. Biol. Zentbl. 66: 106-125. Ref. 1947. 442.8 B523
- 8256 HOPKINS, H. T., and HENDRICKS, S. B. Growth dependence on oxygen supply to roots of tobacco and other plants. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 144. 1948. 4 C82
- 8257 HUTTON, K. E. Bitter pit of pome fruits. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 2, 4 p. 1948. 464.9 N47
- 8258 IVERSON, V. E., and JOHNSON, L. H. Effects of milk products on the growth and yields of vegetables. Amer. Soc. Hort. Sci. Proc. 51: 362-366. June 1948. 81 So12
- 8259 JARVIS, C. S. Some notes on germination. My Gard. 37: 369-375. Oct. 1948. 80 M995
- 8260 JOHNSON, M. A practical method for vitamin treatment of plants. (In Swedish.) Trädgårdstidningen 20: 36-37. Feb. 1, 1948. 80 T67
- 8261 JØRGENSEN, H. A. Chlorate poisoning of greenhouse plants. (In Danish.) Gart. Tid. 64: 556-558. Nov. 17, 1948. 80 G192
- 8262 KELLER, W. Interpretation of self-fertility in grasses by frequency distributions. Amer. Soc. Agron. J. 40: 894-900. Oct. 1948. 4 Am34P
- 8263 KENWORTHY, A. L., and GILLIGAN, G. M. Interrelationship between the nutrient content of soil, leaves, and trunk circumference of peach trees. Amer. Soc. Hort. Sci. Proc. 51: 209-215. Ref. June 1948. 81 So12
- 8264 KILLIAN, C. Conditions édaphiques chez les plantes des paturages steppiques algériens. Conf. Internat. de Pédol. Méditer. Compt. Rend. 1947: 451-454. 1948. 56.09 C766
- 8265 KLEIN, D. T. Influence of varying periods of light and dark on asexual reproduction of *Pilobolus kleinii*. Bot. Gaz. 110: 139-147. Ref. Sept. 1948. 450 B652
- 8266 KOMAROWSKI, B. The wood anatomy of certain apple stock and scion varieties and correlative structural changes in the trunk induced by budding. Palestine J. Bot., Rehovot Ser. 6: 78-88. Ref. Dec. 1947. 450 P172
- 8267 KOSTOFF, D. Atypical growth, abnormal mitosis, polyploidy and chromosome fragmentation induced by hexachlorocyclohexane. Nature [London] 162: 845-846. Nov. 27, 1948. 472 N21
- 8268 KRAMER, P. J. Plant physiology in forestry research. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 41-42. 1948. 4 C82
- 8269 KRÜMMEL, H. Über das glasigwerden der äpfel. Thür. Gartenbau 1948: 165-166. Oct. 1, 1948. 80 T42
- 8270 KÜHLWEIN, H. Über keimungsfördernde substanzen in pollen und narben. Planta 35: 528-535. Ref. 1948. 450 P963
- 8271 KUSHMAN, L. J., and BEATTIE, J. H. Production of "pops" in Spanish and Virginia type peanuts as affected by nutritional level and balance under greenhouse conditions. Amer. Soc. Hort. Sci. Proc. 51: 547-551. June 1948. 81 So12
- 8272 LACHMAN, W. H. Some effects of blossom removal on vegetative development and defoliation in determinate tomato plants. Amer. Soc. Hort. Sci. Proc. 51: 341-345. June 1948. 81 So12
- 8273 LAMB, R. C. Effect of temperatures above and below freezing on the breaking of rest in the Latham raspberry. Amer. Soc. Hort. Sci. Proc. 51: 313-315. June 1948. 81 So12
- 8274 LAMBOU, M. G., KING, G. S., and CONDON, M. Z. Effect of chemical treatment prior to storage on viability and growth of cottonseed. Science 108: 563-564. Ref. Nov. 19, 1948. 470 Sci2
- 8275 LANGER, C. A. Effect of wax sprays on the yield of cherries, pears, and apples. Amer. Soc. Hort. Sci. Proc. 51: 191-195. June 1948. 81 So12
- 8276 LAVOLLAY, J., and LABOREY, F. Recherches sur la nutrition végétale. Effet favorable ou dépressif d'un aliment suivant la concentration d'un autre aliment indispensable. Acad. d'Agr. de France. Compt. Rend. 34: 787-791. June 30/July 7, 1948. 14 P215Bc
- 8277 LECRENIER, A., and DERMINE, E. La stérilité des arbres fruitiers. B. Hort. (n. s.) 3: 228-230. (Concl.) Aug. 1, 1948. 80 B873
- 8278 LEFEVRE, J. Les hormones végétales et leurs applications possibles en agriculture. Cahiers des Ingén. Agron. 3(33): 5-15. Mar. 1948. 14 C112
- 8279 LEONE, I. A., and others. Some effects of fluorine on peach, tomato, and buckwheat when absorbed through the roots. Soil Sci. 66: 259-266. Oct. 1948. 56.8 So3
- E. G. Brennan, R. H. Daines, and W. R. Robbins, joint authors.
- 8280 LEOPOLD, A. C., and THIMANN, K. V. Auxin and flower initiation. Science 108: 664. Dec. 10, 1948. 470 Sci2
- 8281 LEVY, H., and SCHADE, A. L. Studies in the respiration of the white potato. II. Arch. Biochem. 19: 273-286. Ref. Nov. 1948. 381 Ar2
- 8282 LORCK, H. Production of hydrocyanic acid by bacteria. Physiol. Plant. 1: 142-146. 1948. 450 P564
- 8283 LUMSDEN, D. V., and SMITH, F. F. Growth responses by *Kalanchoes* to DDT and other synthetic compounds. Amer. Soc. Hort. Sci. Proc. 51: 618-622. June 1948. 81 So12
- 8284 MACHT, D. I. Influence of human saliva and blood serum on germination and root growth. Science 108: 565. Nov. 19, 1948. 470 Sci2
- 8285 MAHAJAN, L. D. Absorption power of plant materials. Indian J. Agr. Sci. 17: 58-62. Feb. 1947. 22 Ag831
- 8286 MARSHALL, R. E., HAMNER, C. L., and KREMER, J. C. Retardation of ripening of fruits with the methyl ester of naphthalene acetic acid. Amer. Soc. Hort. Sci. Proc. 51: 95-96. June 1948. 81 So12
- 8287 MARTH, P. C., TOOLE, E. H., and TOOLE, V. K. Effect of 2,4-dichlorophenoxyacetic acid on seed development and germination in certain cereal and grass crops. Amer. Soc. Agron. J. 40: 916-918. Oct. 1948. 4 Am34P
- 8288 MASCHERPA, P. Systematic research on the influence of mountain climate on the content of active principles and on the pharmacological action of plants and medicinal drugs. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 87-89. Jan./Feb. 1948. 442.8 So12
- 8289 MECCA, S. B. The cause and control of deficiency chlorosis. Trees [Cleveland] 9: 16-17, 20. Nov./Dec. 1948. 99.8 W52
- 8290 MEDINA, G. Wonderful factors in production. (In Portuguese.) Vida Rur. e Econ. 1948: 3-6. May 1948. 9.2 V662
- Minor elements, plant hormones, and vitamins.
- 8291 MELIN, E., and NORKRANS, B. Amino acids and the growth of *Lactarius deliciosus* (L.) Fr. Physiol. Plant. 1: 176-184. Ref. 1948. 450 P564
- 8292 MELIN, E., and MIKOLA, P. Effect of some amino acids on the growth of *Cenococcum graniforme*. Physiol. Plant. 1: 109-112. 1948. 450 P564
- 8293 MENEHINI, N., and SILBERSCHMIDT, K. Contribution to the knowledge of the N-metabolism in "tristeza"-diseased orange trees. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 139-176. Ref. May/June 1948. 9.2 R324
- English summary.
- 8294 MERRILL, T. A. A system aiding diagnosis of nutrient deficiencies in fruit trees (a preliminary report). Amer. Soc. Hort. Sci. Proc. 51: 48-50. June 1948. 81 So12
- 8295 MICHAELIS, P. Über die gleitende veränderung des plasmatypus. Biol. Zentbl. 67: 32-44. 1948. 442.8 B523
- English, French and Russian summaries.
- In plants.
- 8296 MICHAELIS, P., and MICHAELIS, G. Über die konstanz des zytoplasmons bei *Epilobium*. Planta 35: 467-512. Ref. 1948. 450 P963
- 8297 MONZONI, P., and AZEVEDO, L. H. P. On the action of some drugs on the germination of seeds. (In Portuguese.) São Paulo U. Facul. de Med. Vet. Rev. 3: 309-312. June 1948. 41.8 Sa6
- English summary.
- Tests with formaldehyde, mercuric chloride, calcium propionate, and nipagin.



- 8298 MOON, H. H. Are de-blossoming sprays practical? Md. State Hort. Soc. Proc. 50: 8. 1948. 81 M36
- 8299 MOON, H. H., REGEIMBAL, L. O., and HARLEY, C. P. Effectiveness of different concentrations of 2,4-D as a preharvest spray for Stayman Winesap apples. Amer. Soc. Hort. Sci. Proc. 51: 75-76. June 1948. 81 So12
- 8300 MOON, H. H., REGEIMBAL, L. O., and HARLEY, C. P. Some residual effects of sprays containing 2,4-D on apple trees. Amer. Soc. Hort. Sci. Proc. 51: 81-84. June 1948. 81 So12
- 8301 MOON, H. H. What is new in hormone and thinning sprays? Md. State Hort. Soc. Proc. 50: 6-7. 1948. 81 M36
- 8302 MOORE, R. C. Peach leaf color as an indicator of fruit flesh color. Amer. Soc. Hort. Sci. Proc. 51: 216-218. June 1948. 81 So12
- 8303 MORRIS, H. D. Soluble manganese as a factor affecting the growth of various legumes in culture solutions and in acid soils. Iowa State Col. J. Sci. 23: 55-56. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 8304 MURNEEK, A. E., and WITTWER, S. H. Some factors affecting ascorbic acid content of apples. Amer. Soc. Hort. Sci. Proc. 51: 97-102. Ref. June 1948. 81 So12
- 8305 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Brown fleck or internal brown spot of potatoes. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 40, 1 p. 1948. 464.9 N47
- 8306 OPPENHEIMER, H. R. Studies on the water balance of unirrigated woody plants. Palestine J. Bot., Rehovot Ser. 6: 63-77. Ref. Dec. 1947. 450 P172
- 8307 ORTIZ, A. A. Acción necesaria de la temperatura, en el desarrollo vegetativo del trigo. Bolsa de Com., Rosario. Rev. 36(883): 15-16. Oct. 31, 1948. 287 R71
- 8308 ÖSTERLIND, S. The retarding effect of high concentrations of carbon dioxide and carbonate ions on the growth of a green alga. Physiol. Plant. 1: 170-175. Ref. 1948. 450 P564  
Scenedesmus quadricauda.
- 8309 OVERLEY, F. L., and ALLMENDINGER, D. F. The effect of sulfur and sulfuric acid applications upon soil pH values and cork spot development of Buerre d'Anjou pears. Amer. Soc. Hort. Sci. Proc. 51: 119-122. Ref. June 1948. 81 So12
- 8310 PEHRSON, S. O. Studies of the growth physiology of Phacidium infestans Karst. Physiol. Plant. 1: 38-56. Ref. 1948. 450 P564
- 8311 PICHLER, F. Über den kohlenensäure- und sauerstoffgehalt der luft unter einer schneedecke. Pflanzenschutzberichte 2: 74-80. May 1948. 464.9 P48  
English summary.
- 8312 PICKETT, B. S. Respiration of peach leaves as influenced by some spray materials. Amer. Soc. Hort. Sci. Proc. 51: 196-198. June 1948. 81 So12
- 8313 PONTOPPIDAN, H. Spring yellowing of fibre flax in Denmark. (In Danish.) Lin, Dansk-Svensk Hørtidsskr. 2: 149-150. Sept. 1948. 73.18 L63  
English abstract, p. 161.
- 8314 PORTIANKO, V. F. Practical utilization of catalase. (In Russian.) Priroda 37(5): 43-44. May 1948. 410 P933  
Experiments in respiration of plants.
- 8315 POST, K. Day length and flower bud development in Chrysanthemums. Amer. Soc. Hort. Sci. Proc. 51: 590-592. June 1948. 81 So12
- 8316 PUDOVKINA, Z. M. Cotton [seed] productivity in relation to habitat and dates of boll opening. (In Russian.) In Tashkent. Tsentral'naia Selektionsnaia Stan-tsia. Selekt'siia Khlopatnika, p. 169-177. Ref. Tashkent, Gos. Izd-vo UzSSR, 1948. 72 T183Se
- 8317 PUREWAL, S. S., and RANDHAWA, G. S. Studies in Hibiscus esculentus (Ladys' finger). Indian J. Agr. Sci. 17: 129-136. Ref. June 1947. 22 Ag831
- 8318 RAHN, E. M., and HEUBERGER, J. W. The soluble solids content of cantaloupes as affected by the use of certain fungicides in 1947. Amer. Soc. Hort. Sci. Proc. 51: 442-444. June 1948. 81 So12
- 8319 RAL, J. N. Internal breakdown of guava fruit (Psidium guajava L.). Cur. Sci. 17: 273-274. Sept. 1948. 475 Sci23
- 8320 RAZUMOVSKII, V. V. Growth substances [for plants]. (In Russian.) Priroda 37(6): 46-48. June 1948. 410 P933
- 8321 RECKENDORFER, P. Über die wanderung des bleies im pflanzlichen gewebe. Landwirtschaft 1948: 234-236. Aug. 21, 1948. 19 L235  
Used as a spray in fruit culture.
- 8322 REIFENBERG, A. The influence of salt solutions on the intake of ions by barley seedlings. Conf. Internatl. de Pécol. Méditer. Compt. Rend. 1947: 434-442. Ref. 1948. 56.09 C766
- 8323 REILLY, H. W. Radio-magnetismo en las plantas. Chacra 18(216): 94, 102. Oct. 1948. 9 C34
- 8324 RENAUD, H. La merveilleuse histoire des recherches sur les hormones chimiques des plantes aux Etat-Unis et leurs applications en agriculture. Arbres et Fruits 32: 9-23. Oct. 1948. 80 Ar1
- 8325 RENNERT, O. Über die modifizierbarkeit der Oenotheren. Biol. Zentbl. 67: 52-60. 1948. 442.8 B523  
English, French and Russian summaries.
- 8326 ROBERTS, R. H. Growth and blossoming of some apples. Amer. Soc. Hort. Sci. Proc. 51: 51-53. June 1948. 81 So12
- 8327 ROBERTS, R. H., and STRUCKMEYER, B. E. Notes on pollination with special reference to Delicious and Winesap. Amer. Soc. Hort. Sci. Proc. 51: 54-60. June 1948. 81 So12
- 8328 ROSSMAN, E. C. Viability and vigor of inbred and hybrid maize seed subjected to freezing temperatures. Iowa State Col. J. Sci. 23: 75-77. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 8329 SAEZ, F. A. Influencia de los insecticidas gamexanne y DDT sobre el mecanismo de la división celular. Cien. e Invest. 4: 330-331. Ref. Aug. 1948. 475 C482
- 8330 SAID, H. The effect of stem-ringing on the daily march of stomatal rhythm in Kalanchoë leaves. New Phytol. 47: 288-289. Oct. 1948. 450 N42
- 8331 SAID, H., and TOLBA, M. K. The effect on stomatal behaviour of detaching leaves of Kalanchoë and Mesembryanthemum at different times of the day. New Phytol. 47: 284-287. Ref. Oct. 1948. 450 N42
- 8332 SANDERS, M. E., and BURKHOLDER, P. R. Influence of amino acids on growth of Datura embryos in culture. Natl. Acad. Sci. Proc. 34: 516-525. Ref. Nov. 1948. 500 N21P
- 8333 SCARDOVI, V. On the metabolism of the Thiorhodaceae. II. Catalase activity. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 318-325. Mar. 1948. 442.8 So12
- 8334 SCHMUCKER, T. Physiologische unterschiede zwischen grünen und bereiften sippen von abietaceen. Biol. Zentbl. 67: 65-71. 1948. 442.8 B523
- 8335 SCHOPFER, W. H., POSTERNAK, T., and BOSS, M. L. Recherches sur la spécificité d'action du mésoinositol, facteur de croissance essentiel pour un mutant de Neurospora crassa. Internatl. Z. f. Vitaminforsch. 20(1/3): 121-128. Ref. 1948. 389.8 Z33  
Summary in English and German.
- 8336 SCHRANK, A. R. Experimental control of phototropic bending in the Avena coleoptile by application of direct current. J. Cell. & Compar. Physiol. 32: 143-159. Ref. Oct. 1948. 444.8 J822
- 8337 SCHULTZ, J. H. Self-incompatibility in apricots. Amer. Soc. Hort. Sci. Proc. 51: 171-174. June 1948. 81 So12
- 8338 SCOTT, D. H., and INK, D. P. Germination of strawberry seed as affected by scarification treatment with sulfuric acid. Amer. Soc. Hort. Sci. Proc. 51: 299-300. June 1948. 81 So12
- 8339 SCOTT, F. M. Internal suberization of plant tissues. Science 108: 654-655. Dec. 10, 1948. 470 Sci2
- 8340 SCHULTZ, A. S., and POMPER, S. Amino acids as nitrogen source for the growth of yeasts. Arch. Biochem. 19: 184-192. Ref. Nov. 1948. 381 Ar2
- 8341 SEYBOLD, A. Zur klärung optischer probleme der blätter. Biol. Zentbl. 67: 71-77. 1948. 442.8 B523  
English, French and Russian summaries.
- 8342 SHCHEGLOVA, O. A., and ERMOLAEVA, E. IA. Achievements of Soviet science in the field of photoperiodism [in plants]. (In Russian.) Priroda 37(7): 30-34. July 1948. 410 P933
- 8343 SHEAR, C. B., CRANE, H. L., and MYERS, A. T. Nutrient-element balance: application of the concept to the interpretation of foliar analysis. Amer. Soc. Hort. Sci. Proc. 51: 319-326. June 1948. 81 So12
- 8344 SHEAR, G. M., and BATTEN, E. T. Manganese deficiency of peanuts in Virginia. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 147-148. 1948. 4 C82



- 8345 SHEAR, G. M., and MCVICKAR, H. M. A study of pulling resistance of U. S. 13 and Golden Queen corn plants. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 146-147. 1948. 4 C82
- 8346 SILVELA Y DE TORDESILLAS, F. Iniciación al estudio del rendimiento unitario y calidad de los trigos en relación con el régimen de humedad. Spain. Inst. Nac. de Invest. Agron. Cuaderno 99: 181-186. June 1948. 105.6 Sp14C  
English, French and German summaries.
- 8347 SIMMONDS, N. W. The effects of ploidy upon the leaf of *Musa*. Ann. Bot. [London] (n.s.) 12: 441-453. Ref. Oct. 1948. 450 An7
- 8348 SIMONIS, W. CO<sub>2</sub>-assimilation und xeromorphie von hochmoorpflanzen in abhängigkeit vom wasser- und stickstoffgehalt des bodens. Biol. Zentbl. 67: 77-83. 1948. 442.8 B523  
English, French and Russian summaries.
- 8349 SIVADJIAN, J. Sur le géotropisme des racines. Paris. Acad. des Sci. Compt. Rend. 227: 862-864. Oct. 27, 1948. 505 P21
- 8350 SKAUPY, F. Nutzpflanzenbau bei künstlichem licht. Natur u. Nahr. 2(15/16): 3-5. Aug. 1948. 80 N218
- 8351 SMITH, F. F., BRIERLEY, P., and FULTON, R. A. Responses of some plants to DDT, hexaethyl tetraphosphate, and parathion applied as aerosols. Amer. Soc. Hort. Sci. Proc. 51: 327-332. Ref. June 1948. 81 So12
- 8352 SMITH, L., and CALDECOTT, R. S. Modification of X-ray effects on barley seeds by pre- and post-treatment with heat. J. Hered. 39: 173-176. June 1948. 442.8 Am3
- 8353 SNYDER, W. E. Mechanism of the photo-periodic response of *Plantago lanceolata* L., a long-day plant. Amer. J. Bot. 35: 520-525. Oct. 1948. 450 Am36
- 8354 SOBELS, J. C. Contribution a l'étude physiologique de Myxomycètes. Inst. Pasteur. Ann. 75: 147-155. Ref. Aug. 1948. 448.3 An75
- 8355 SOKOLOV, V. S. Effect of temperature on the alkaloid content in plants. (In Russian.) Priroda 37(7): 56-58. Ref. July 1948. 410 P933
- 8356 STAKMAN, E. C., and others. Variation induced by uranium nitrate in corn smut and the cultivated mushroom. Science 108: 554-555. Nov. 19, 1948. 470 Sci2  
J. M. Daly, M. L. Gattani, and I. Wahl, joint authors.
- 8357 STARK, F. C., JR. Use of "hormone" materials to set fruit. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 173-177. 1948. 81 V52
- 8358 STENLID, G. The effect of sodium azide on the exudation and oxygen consumption of excised plant roots. Physiol. Plant. 1: 185-195. Ref. 1948. 450 P564
- 8359 STEWART, W. S. Chemical control of fruit and leaf drop. Calif. Fruit & Grape Grower 2(11): 16. Nov. 1948. 95.8 G762
- 8360 STEWART, W. S. Effect of plant growth regulators on stored citrus fruit. Calif. Citrog. 34: 58, 80-84. Ref. Dec. 1948. 80 C125
- 8361 STOCKER, O. Beiträge zu einer theorie der dürreresistenz. Planta 35: 445-466. Ref. 1948. 450 P963
- 8362 STUART, N. W. The effect of storage temperature on composition, growth and flowering of Easter Lily bulbs. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 148. 1948. 4 C82
- 8363 STUIVENBERG, J. H. M. VAN Enkele recente toepassing van plantengroeistoffen en verdere perspectieven [Recent developments in plant growth substances and further prospects]. Inst. v. Onderzoek op het Gebied van Verwerking van Fruit en Groenten. Overdruk 5: 513-532. 1947? 389.9 W12
- 8364 STUMPF, P. K. Carbohydrate metabolism in higher plants. I. Pea aldolase. J. Biol. Chem. 176(1): 233-241. Ref. Oct. 1948. 381 J824
- 8365 SUREAU, B., and others. Premières données sur la production d'une "streptomycine" par certaines souches microbiennes. Inst. Pasteur. Ann. 75: 169-171. Aug. 1948. 448.3 An75  
E. Arquie, F. Boyer, and M. Saviard, joint authors.
- 8366 TARASENKO, M. T. Cultivo de forestales y frutales mediante el tratamiento de estacas verdes con aplicación de sustancias de crecimiento. Campo y Suelo Argentino 32(383): 56-57, 59-60, 64, 66, 68, 70. Sept. 1948. 9 C15
- 8367 THOMAS, R. O. Photoperiodic responses of maize. Iowa State Col. J. Sci. 23: 86-88. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 8368 THOMPSON, A. H., and BATJER, L. P. Factors relating to the effectiveness of 2,4-dichlorophenoxy-acetic acid sprays for control of the preharvest drop of Winesap apples. Amer. Soc. Hort. Sci. Proc. 51: 90-94. June 1948. 81 So12
- 8369 TIRELLI, M. Reaction of tobacco to treatment with herbicides. (In Italian.) Tabacco 52: 259-262. Sept. 1948. 69.8 T115
- 8370 TORSTENSSON, G. Radioactive isotopes; an important link in plant physiology and fertilizer research. (In Swedish.) Växt-Närings-Nytt 4(1): 1-2. 1948. 57.8 V47
- 8371 TREMBLAY, F. T., and BAUR, K. E. A method of determining the potassium requirements of peas. Amer. Soc. Agron. J. 40: 945-959. Ref. Nov. 1948. 4 Am34P
- 8372 VAN CAMP, J. C., JR. The nutrient element content of the foliage of certain species of minor forest vegetation. J. Forestry 46: 823-826. Ref. Nov. 1948. 99.8 F768  
For soil fertility and animal nutrition.
- 8373 VENTURI, V. M. Toxicity of the seeds and corms of *Colchicum autumnale* L. collected at different altitudes. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 91-92. Jan./Feb. 1948. 442.8 So12
- 8374 VIRGIN, H. I. Changes in the viscosity of the cytoplasm of *Helodea densa* Casp. during continuous illumination. Physiol. Plant. 1: 147-155. Ref. 1948. 450 P564
- 8375 VISSER, R. H. Periodic plant-analysis in connection with food-absorption and weather-conditions. (In Dutch.) (Sum.) Landbouwk. Tijdschr. 59: 266-268. June/July 1947. 105.2 Or3  
English summary.
- 8376 VLOTEN, H. VAN. Mycorrhiza of our forest trees. II. (In Dutch.) Nederland. Bosbouw Tijdschr. 20: 296-303. Nov. 1948. 99.8 N28
- 8377 WALLACE, T. Nutrition problems of horticultural plants, with special reference to trace elements. I. Roy. Hort. Soc. J. 73: 366-380. Ref. Nov. 1948. 84 L84J
- 8378 WALTER, H. Der assimilathaushalt unserer kulturpflanzen unter feldmässigen bedingungen. Biol. Zentbl. 67: 89-94. 1948. 442.8 B523  
English, French and Russian summaries.
- 8379 WATSON, D. P. Structure of the testa and its relation to germination in the Papilionaceae tribes Trifoliae and Loteae. Ann. Bot. [London] (n.s.) 12: 385-409. Ref. Oct. 1948. 450 An7
- 8380 WEINBERGER, J. H. Influence of temperature following bloom on fruit development period of Elberta peach. Amer. Soc. Hort. Sci. Proc. 51: 175-178. June 1948. 81 So12
- 8381 WILSON, A. R., and MCKEE, R. K. Prevention of excessive sprouting in late-stored ware potatoes. Gt. Brit. Min. Agr. Agriculture 55: 296-299. Oct. 1948. 10 G79J
- 8382 WILSON, C. C. Fog and atmospheric carbon dioxide as related to apparent photosynthetic rate of some broadleaf evergreens. Ecology 29: 507-508. Oct. 1948. 410 Ec7
- 8383 WINKLER, A. J. Maturity tests for table grapes—the relation of heat summation to time of maturing and palatability. Amer. Soc. Hort. Sci. Proc. 51: 295-298. June 1948. 81 So12
- 8384 WITHROW, A. P. Artificial lighting for forcing greenhouse crops. Ind. Agr. Expt. Sta. B. 533, 27 p. Ref. Aug. 1948. 100 In2P
- 8385 WITSCH, H. V. Beobachtungen zur physiologie des wachstums von Chlorella in massenkulturen. Biol. Zentbl. 67: 95-100. Ref. 1948. 442.8 B523  
English, French and Russian summaries.
- 8386 WITTWER, S. H., STALLWORTH, H., and HOWELL, M. J. The value of a "hormone" spray for overcoming delayed fruit set and increasing yields of outdoor tomatoes. Amer. Soc. Hort. Sci. Proc. 51: 371-380. Ref. June 1948. 81 So12
- 8387 WOODCOCK, D. Plant growth substances. (Sum.) Chem. & Indus. 1948: 715. Nov. 6, 1948. 382 M31C
- 8388 WOODFORD, E. K., and GREGORY, F. G. Preliminary results obtained with an apparatus for the study of salt uptake and root respiration of whole plants. Ann. Bot. [London] (n.s.) 12: 335-370. Ref. Oct. 1948. 450 An7



8389 WYATT, F. M. Injecting fruit trees. Gard. Illus. 65: 233. Dec. 1948. 80 G169  
For deficiency diseases.

8390 YANKOVITCH, L. Etude sur la résistance de certaines cultures d'été aux chlorures. Conf. Internat. de Pédol. Méditer. Compt. Rend. 1947: 407-419. 1948. 56.09 C766

8391 ZIMMERMANN-GRIESS, S. Internal rust spot of potatoes. Palestine J. Bot., Rehovot Ser. 6: 174-180. Dec. 1947. 450 P172  
Internal brown spot.

8392 ZOLLIKOFER, C. Zur Wirkung des Oestrons auf pflanzliche Entwicklungsvorgänge. Biol. Zentbl. 67: 101-104. 1948. 442.8 B523  
English, French and Russian summaries.

#### BIOCHEMISTRY

8393 ARDITTI, R. La nicotine. Rev. des Tabacs 23(183): 17-19. Autumn 1948. 69.8 R325

8394 BATE-SMITH, E. C. Paper chromatography of anthocyanins and related substances in petal extracts. Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem. 561, 8 p. 1948. 389.9 G792M

8395 BERTRAND, G., and BERTRAND, D. Teneur en rubidium de diverses familles de phanérogames. Acad. d'Agr. de France. Compt. Rend. 34: 829-831. June 30/July 7, 1948. 14 P215Bc

8396 BETTOLO, G. B. M., and IBANEZ, J. Chemical research on Chilean algae. (In Italian.) Chim. e l'Indus. 30(8): 195-198. Aug. 1948. Ref. 385 C43

8397 BLACK, W. A. P. The seasonal variation in chemical composition of some of the littoral seaweeds common to Scotland. I. *Ascophyllum nodosum*. Soc. Chem. Indus. J. 67: 355-357. Ref. Sept. 1948. 382 M31

8398 BORCHERS, R., ACKERSON, C. W., and MUSSEHL, F. E. Trypsin inhibitor. VIII. Growth inhibiting properties of a soybean trypsin inhibitor. Arch. Biochem. 19: 317-322. Nov. 1948. 381 Ar2

8399 BRACCO, M., and EULER, H. V. Über ein Chromoplastin aus reifenden Tomaten. Experientia 4: 431-432. Nov. 15, 1948. 475 Ex7  
English summary.

8400 CANADA. BOARD OF GRAIN COMMISSIONERS. GRAIN RESEARCH LABORATORY. Protein content of hard red spring wheat. Winnipeg, 1948. map. 59.9 C161Pr

8401 DARMER, G. *Hippophae rhamnoides* L. (Sand-lorn) als neues Züchtungsobjekt. Züchter 17/18: 430-436. Ref. Oct./Dec. 1947. 442.8 Z8  
As a source of vitamin C.

8402 DUCET, G. Synthèse et dégradation des substances choliniques végétales. Paris. Acad. des Sci. Compt. Rend. 227: 871-873. Oct. 27, 1948. 505 P21

8403 EDWARDS, M. G. The pyrethrin contents of undried flowers, *Chrysanthemum cinerariaefolium*, determined by extraction with petrol ether. Soc. Chem. Indus. J. 67: 379-382. Oct. 1948. 382 M31

8404 GEILING, E. M. K., and others. Biosynthesis of radioactive drugs using carbon 14. Science 108: 558-559. Nov. 19, 1948. 470 Sci2  
F. E. Kelsey, B. J. McIntosh, and A. Ganz, joint authors. Experiments in obtaining radioactive digitoxin and nicotine from *Digitalis purpurea* and *Nicotiana rustica*.

8405 HOULAHAN, M. B., and MITCHELL, H. K. The accumulation of acid-labile, inorganic phosphate by mutants of *Neurospora*. Arch. Biochem. 19: 257-264. Ref. Nov. 1948. 381 Ar2

8406 INNES, R. F. Notes on the chemical composition of some grasses grown in Jamaica. Jamaica. Dept. Sci. and Agr. B. 35, 21 p. Ref. 1947. 8 J227B

8407 KIR'ALOV, N. P. Carotinoid oxides in plants. (In Russian.) Priroda 37(3): 57-60. Ref. Mar. 1948. 410 P933

8408 KULESCHA, Z. Remarque sur l'emploi de trypsines pour l'extraction des substances de croissance contenues dans les tissus végétaux. Soc. de Biol. Compt. Rend. 142: 931-933. July 1948. 442.9 P21

8409 KUNITZ, M. The kinetics and thermodynamics of reversible denaturation of crystalline soybean trypsin inhibitor. J. Gen. Physiol. 32: 241-263. Nov. 20, 1948. Ref. 447.8 J822

8410 MACVICAR, R., and BURRIS, R. H. Studies on nitrogen metabolism in tomato with use of isotopically labeled ammonium sulfate. J. Biol. Chem. 176: 511-516. Ref. Nov. 1948. 381 J824

8411 MARRE, E. Hormonal regulation of carbohydrate exchange in flowers. III-IV. (In Italian.) Soc. Ital. di Biol. Sper. B. 23: 1236-1241. Dec. 1947. 442.8 So12  
III. Progress of amilase activity during the development of stamiferous flowers. IV. Reaction of the amilase complex to staminectomy in unisexual flowers.

8412 MASQUELIER, J., and BLANQUET, P. Recherches sur les pigments de la graine d'arachide. Mise en évidence d'une flavanone. Paris. Acad. des Sci. Compt. Rend. 227: 641-642. Sept. 27, 1948. 505 P21

8413 MASSA, V. Recherche de l'acide ascorbique et des diastases oxydantes dans quelques algues. Soc. de Chim. Biol. B. 30: 278-280. Ref. May/June 1948. 383 So1

8414 MILNER, H. W. The fatty acids of *Chlorella*. J. Biol. Chem. 176: 813-817. Nov. 1948. 381 J824

8415 MITCHELL, W., TRESADERN, F. H., and WOOD, S. A. The analysis of pyrethrum flowers by the Seil and Wilcoxon-Holaday methods. Analyst 73: 484-494. Ref. Sept. 1948. 382 An1

8416 NICHOLAS, D. J. D. Chemical tissue tests for the determination of the mineral status of plants. Chem. & Indus. 1948: 707-712. Ref. Nov. 6, 1948. 382 M31C

8417 OLSEN, C. Adsorptively bound potassium in beech leaf cells. Physiol. Plant. 1: 136-141. 1948. 450 P564

8418 PLOUVIER, V., and SOSA, A. Recherches biochimiques sur les fleurs de quelques espèces de *Forsythia* (Oleaceae). Soc. de Chim. Biol. B. 30: 273-278. May/June 1948. 383 So1

8419 FUCHER, G. W., LEAVENWORTH, C. S., and VICKERY, H. B. Determination of starch in plant tissues. Analyst. Chem. 20: 850-853. Ref. Sept. 1948. 381 J825A

8420 RAO, A. L. S. Distribution of trace elements in biological material. Soc. Biol. Chem., India, Proc. 7: 7. June 1948. 385 So13P  
Plants.

8421 REUTHER, W. The mineral composition of date palm foliage. Amer. Soc. Hort. Sci. Proc. 51: 137-144. Ref. June 1948. 81 So12

8422 SAGROMSKY, H. Über einige Bestimmungen des Vitamin B<sub>1</sub>-gehaltes von Pollen mit Hilfe des Phycomyces-testes. Biol. Zentbl. 66: 140-146. 1947. 442.8 B523

8423 SOSA, A., and PLOUVIER, V. Sur la nature et les propriétés du pigment heterosidique de *Forsythia viridissima* Lindl. Soc. de Chim. Biol. B. 30: 266-273. Ref. May/June 1948. 383 So1

8424 STEINER, M. Die Bedeutung autolytischer Abbauvorgänge für die Mineralisierung des organischen Phosphors toter Pflanzensubstanz. Biol. Zentbl. 67: 84-88. 1948. 442.8 B523  
English, French and Russian summaries.

8425 STEPHENS, S. G. Spectrophotometric evidence for the presence of a leuco precursor of both anthoxanthin and anthocyan pigments in Asiatic cotton flowers. Arch. Biochem. 18: 449-459. Ref. Sept. 1948. 381 Ar2

#### FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

##### General

8426 AKERMAN, A. What should be seeded in harrowed wheat fields. (In Swedish.) Lantmannen 32: 177-178. Mar. 13, 1948. 11 L234

8427 BARI. STAZIONE AGRARIA SPERIMENTALE. Esperienze di rotazione e di concimazione nell'azienda sperimentale di Foggia [Experiments in rotation and fertilizer at the experimental farm of Foggia]. Bari, 1947. 32 p. 57.07 B23

8428 BOSCH, S., and DEIJS, W. B. Chemical investigation of plants at the Central Institute of Agricultural Research at Wageningen. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Meded. 53, 68 p. 1947. 12 N383  
Field crops.

8429 CANADA. DOMINION RECLAMATION STATION, MELITA. Progress report 1936-1947. Ottawa, 1948. 31 p. 101 Ex6R  
Reports on field crop experiments, crop rotation, soil fertility, weed control, and forage crops.



8430 CHILE. DEPARTAMENTO DE GENÉTICA Y FITOTECNIA. Semillas genéticas del Ministerio de Agricultura, temporada 1947. Santiago, 1947. 24 p. 64.9 C43S

Field crops.

8431 DEMOLON, A. Les ingénieurs agronomes et la science (pédologie, biochimie végétale et microbiologie). (Sum.) Cahiers des Ingén. Agron. 2(20): 13-14. Feb. 1947. 14 C112

Text in French and English.

8432 DUCAP, R. Les semailles. Blé et le Vin 25(111): 3. Sept. 19/26, 1948. 14 B61

8433 EDINBURGH AND EAST OF SCOTLAND. COLLEGE OF AGRICULTURE. Guide to field experiments and farm crops, Boggall experimental farm. Edinburgh, 1948. 55 p. 103 Ed4G

8434 FOL, R. Rapport de mission d'études en Suisse août 1946. Inst. Natl. Agron. Paris. Ann. 34: 203-221. 1947. 105.3 In8

8435 GADD, I. Quality of this years' spring seed. (In Swedish.) Lantmannen 32: 178-179. Mar. 13, 1948. 11 L234

Forage plants and grain.

8436 GRIMALDI, L. Soy best to follow wheat. (In Italian.) Ital. Vinic. ed Agr. 38: 124-125. June 15, 1948. 95.8 It1

8437 HARRINGTON, J. F. Germination problem of hard seeds can be lessened. West. Feed & Seed 3(8): 5, 9. Oct. 1948. 389.78 W52

8438 HELLO, E. Regulations for controlled culture of seed. (In Swedish.) Nord. Jordbrugsforsk. 1948: 430-439. 11 N752

Discussion, p. 439-441.

Field crops.

8439 IAKUSHKIN, I. V. Agronomical measures for combatting droughts. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 7: 5-10. 1948. 20 M857

8440 JEANSONNE, R. J. A suggested rotation of sugarcane with pasture. Sugar J. 11(6): 7-18, 17, 19-20. Nov. 1948. 65.8 Su391

8441 KANKARE, A. Results of experiments with mixed culture of peas and oats. (In Swedish.) Prakt. Försöksverks. 5: 6-7. Jan. 1948. 20 P88

8442 KOHLER, R. Der wintermischling-anbau lohnt sich. Oberösterr. Landwirtschaftsztg. 20(35): 1. Aug. 25, 1948. 19 Ob23

8443 LE GRAND, L. Le rôle particulier des agronomes dans la collectivité nationale des ingénieurs. Cahiers des Ingén. Agron. 3(31/32): 19. Jan./Feb. 1948. 14 C112

8444 LEJEUNE, J. B. H. La station agronomique du Ruanda. Soc. Belge d'Etudes & d'Expansion. B. Bimest. 47: 525-527. Aug./Oct. 1948. 280.8 So17

8445 LUSTIG, E. Aus der praxis der forstlichen zwischenskulturwirtschaft. Landwirtschaft 1948: 195-197. July 24, 1948. 19 L235

8446 MAZZILLI, F. Planting systems and the use of selected seed. (In Italian.) Risveglio Agr. 7: 276-277. Aug. 15/31, 1948. 16 R49

Field crops.

8447 NETHERLANDS. CENTRAAL INSTITUUT VOOR LANDBOUWKUNDIGE ONDERZOEK. List of field tests made by State agricultural advisers and other agencies in 1947. (In Dutch.) Netherlands. Landbouwoorlichtingsdienst. Meded. 51, 91 p. 1947. 12 N383

8448 REBOUR, M. Exposé fait au cours de la visite du Laboratoire d'Agrologie de l'Institut Agricole d'Algérie. Conf. Internatl. de Pédol. Méditer. Compt. Rend. 1947: 495-497. 1948. 56.09 C766

8449 REITERER, M. Der anbau von zwischenfrüchten. Kärntner Bauer 98: 212-213. July 1, 1948. 19 K14

8450 RUFIN, G. Semailles d'automne. Jura Agr. (n. s.) 11: 1. Oct. 1, 1948. 14 J97

8451 SAINT-QUENTIN, M. Le triage des semences améliore les rendements. Rustica 20: 32. Jan. 12, 1947. 14 R92

8452 SALMON, S. C. Crop improvement in Japan. Amer. Soc. Agron. J. 40: 1017-1035. Ref. Nov. 1948. 4 Am34P

8453 SALOHEIMO, L. Direction of slope of field and its effect on crop yield. (In Swedish.) Prakt. Försöksverks. 5: 12-13. Feb. 1948. 20 P88

8454 SCHÖBER, K. Saatgutbeize und herbstanbau. Wiener Bauernbündler 1(11): 4. Sept. 18, 1948. 19 W632

8455 SCHÖBER, K. Saatzeit am edelhof—eine landeskulturelle aufgabe. Landwirtschaft 1948: 220-221. Aug. 21, 1948. 19 L235

8456 VIGGIANI, G. The agricultural Mezzogiorno: revolutionary culture. III. (In Italian.) Gior.di Agr. 57: 27. Feb. 2, 1947. 16 It1G

Crop rotation.

### Cereals

8457 ÅBERG, E. Winter grain fields in Middle-Sweden. (In Swedish.) Lantmannen 32: 277. Apr. 17, 1948. 11 L234

8458 ANDRÉS, J. M. Híbridos comerciales de maíz Bolsa de Cereales, Buenos Aires. Rev. 35(1868): 3-4, 6, 809, 11. Oct. 14, 1948. 287 B866

Also in Bolsa de Com., Rosario. Rev. 36(883): 7-10. Oct. 31, 1948. 287 R71

8459 ANDRIBET, P. Le choix des variétés de céréales en 1948. Agr. Charentais 3(7): 1-2. Aug. 1948. 14 Ag825

8460 AUFHAMMER, G. 10-jährige anbauversuche mit wintergerste. Land. Wchnbl. 138: 236. Sept. 4, 1948. 18 L2338

Germany.

8461 BAIR, R. Big Joe, a muck corn for south Florida. Fla. Poultry & Dairy J. 14(9): 10-11. Nov. 1948. 47.8 F66

8462 BARTEL, A. T., CORDS, H. P., and AEPLI, D. C. Improved Arivat [barley]. Ariz. Farmer 27(24): 34. Nov. 27, 1948. 6 Ar44

8463 BENI, F. DE. Corn progress (hybrid seed). (In Italian.) Humus 4(3): 3-4. Mar. 1948. 16 H88

8464 BERNARD, P. Un problème difficile: le choix des meilleurs blés. Monit. Agr. 1(39): 2. Oct. 10, 1948. 14 M744

8465 BONFIGLIOLI, O. Directions for grain culture. (In Italian.) Campagnolo 1948(9): 2-3. Sept. 1, 1948. 16 C15

Italy.

8466 BRAUN, O. Cereales poco concoidos. Chacra 18(216): 80-81. Oct. 1948. 9 C34

8467 BURTON, G. W. The performance of various mixtures of hybrid and parent inbred pearl millet, Pennisetum glaucum (L.) R. BR. Amer. Soc. Agron. J. 40: 908-915. Oct. 1948. 4 Am34P

8468 CAPPELLETTI, C. M. Es necesario efectuar una buena siembra para obtener una buena cosecha de trigo. Campo y Suelo Argentino 32(383): 20-21. Sept. 1948. 9 C15

8469 CARRERA, C. Tratamiento o cura de las semillas de los cereales. Bolsa de Cereales, Buenos Aires. Rev. 35(1868): 19-21, 28, 37. Oct. 14, 1948. 287 B866

8470 CHIAPPELLI, R. The agricultural value of new varieties of rice created by Dr. Chiappelli. (In Italian.) Riscicoltura 36: 50-51. Feb. 1948. 59.8 G43

8471 CHIAPPELLI, R. Red rice in the deterioration of our rice varieties. (In Italian.) Riscicoltura 36: 128-133. June 1948. 59.8 G43

8472 CHIAPPELLI, R. The selection of rice. (In Italian.) Riscicoltura 36: 149-150. July 1948. 59.8 G43

8473 COFFMAN, F. A. Hardiness and grain and forage yields of fall-sown oat varieties. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 31-32. 1948. 4 C82

8474 CORTAZAR SAGARMINAGA, R. Ensayos de variedades en trigo. Agr. Tec. 8: 5-27. June 1948. 464.9 C432B

English summary.

8475 COUR, G. Riziculture: les semis submergés. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 1(2): 7-12. Aug. 1948. 25 M26

8476 CROWDER, L. V., and SELL, O. E. Effect of seeding dates, oat variety, and clipping termination date on winter pasture and grain production. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 32-33. 1948. 4 C82

8477 DEMAR, M. Des blés ont gelé, sauvons ceux qui restent. Paysan du Sud-Ouest 3(115): 2. Mar. 1, 1947. 14 P292

8478 DICKEY, J. B. R. Wheat and barley seed. Pa. Farmer 139: 97. Aug. 28, 1948. 6 P385

Includes varieties.

8479 DOLGOVA, K. I. 32 tsentnera fārovoī pshenitsy s geklara v Povolzh'e [32 centners of spring wheat per hectare in Povolzh'e]. Moskva, Sel'khozgiz, 1948. 36 p. (Proizvodstvennyy Opyt Geroev Sotsialisticheskogo Truda) 59.26 D682



- 8480 DUNNS FARM SEEDS, LTD. Dunns guide to seed wheats, autumn cereals and forage crops. Salisbury. 1948. 27 p. 59 D924  
Includes Winter oats by E. T. Jones.
- 8481 ELIASSON, S. Selection of spring grain. New research results place spring wheat and barley in the foreground. (In Swedish.) *Försök och Forskning* 4: 20-21. Feb. 1947. 11 F77
- 8482 FERREIRA FILHO, J. C. Some aspects of rice culture. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7: 89-96. Apr./June 1948. 9.2 Ag892
- 8483 FONDARD, L. Les céréales sélectionnées. *Réveil Agr.* 57: 305-306. Oct. 15, 1948. 14 R322
- 8484 GANGSTAD, E. O., and SNELL, R. S. A practical method for quantitative evaluation of texture in sweet corn inbreds and hybrids. *Amer. Soc. Agron. J.* 40: 885-893. Ref. Oct. 1948. 4 Am34P
- 8485 GOSI, L. Weight of wheat grains and quantities of seed per hectare. (In Italian.) *Gior. di Agr.* 58: 263. Sept. 26, 1948. 16 It1G
- 8486 GREEN, J. M. Oat varieties for the Yazoo-Mississippi Delta. *Miss. Agr. Expt. Sta. Serv. Sheet* 412, 2 p. Sept. 1948. 100 M69
- 8487 GREEN, J. M. Wheat varieties for the Yazoo-Mississippi Delta. *Miss. Agr. Expt. Sta. Serv. Sheet* 413, 2 p. Sept. 1948. 100 M69
- 8488 HEHN, E. R. The inheritance of agronomic characters in barley. *Iowa State Col. J. Sci.* 23: 39-40. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 8489 HUGUET, F. La culture rémunératrice du blé. *Vaucluse Agr.* 4(77): 1-2. Oct. 15, 1948. 14 V26
- 8490 HULL, F. H. Genetics and corn breeding. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 97. 1948. 4 C82
- 8491 HUNTER, H. The economic value of the oat crop. *Farming [Norwich]* 9: 294-297, 302. Oct. 1948. 10 F2236  
Varieties and yields.
- 8492 INNES, D. Flooded areas hit wheat jackpot; rich fields turn out three times provincial average. *Saskatchewan Farmer* 39(18): 6, 7. Sept. 16, 1948. 7 Sa74
- 8493 JENKINS, M. T. Corn of tomorrow. *What's New in Crops & Soils* 1(2): 18-20. Nov. 1948. 6 W55
- 8494 KELLENBARGER, S., and SWENSON, S. P. Pearl index and wheat meal fermentation time in two winter wheat crosses. *Amer. Soc. Agron. J.* 40: 929-939. Ref. Oct. 1948. 4 Am34P
- 8495 KRANTZ, B. A., and HARVEY, P. H. How to get that new hybrid sooner! *What's New in Crops & Soils* 1: 19, 22. Oct. 1948. 6 W55  
Corn hybrids.
- 8496 LAFOREST, G. Comment choisir les variétés de blé. *Unité Paysanne* 3(151): 1, 4. Sept. 25, 1948. 14 Un3
- 8497 LATHROPE, H. R. Wheat improvement in Indiana. *What's New in Crops & Soils* 1(2): 12-13. Nov. 1948. 6 W55  
Program of the Southwestern Indiana Wheat Improvement Association.
- 8498 LAUMONT, P. Comment accroître la production des céréales en Algérie. *Rev. Agr. de l'Afrique du Nord* 46: 427-429, 455-459. Aug. 27-Sept. 10, 1948. 80 R326
- 8499 LAUMONT, P. Orientations à donner à la production des céréales en Algérie. *Rev. Agr. de l'Afrique du Nord* 46: 441-443. Sept. 3, 1948. 80 R326
- 8500 LEAL MORENO, T. Sobre el surco. *Germinal* 1(8): 3. Sept. 15, 1948. 8 G312  
Corn culture and varieties.
- 8501 LEBEDEFF, G. A. Some data on corn hybrids for Georgia. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 85-86. 1948. 4 C82
- 8502 LIESE. Bemerkungen zum waldstaudenroggenanbau. *Forstw., Holzw.* 2: 247-248. Aug. 15, 1948. 99.8 F7793
- 8503 LITZENBERGER, S. C., CHAPMAN, W. H., and CARVER, W. A. Oat and rye recommendations for northern Florida for 1948-1949. *Fla. Agr. Expt. Sta. Press B.* 653, 6 p. Sept. 1948. 100 F66S
- 8504 LONNQUIST, J. H., HANWAY, J. J., and MCGILL, D. P. Nebraska corn performance tests, 1947. *Nebr. Agr. Expt. Sta. C.* 91, 13 p. Feb. 1948. 100 N27
- 8505 MCLEAN, D. M. Fall-sown cereals. *Seed-time & Harvest* 207: 1. Sept. 16, 1948. 7 Se3
- 8506 MANGELSDORF, P. C. The history of hybrid corn; critical comments on Richey's review of Crabb's book. *J. Hered.* 39: 177-180. June 1948. 442.8 Am3  
Reply by F. D. Richey, p. 180, 185.
- 8507 MARCHETTI, M. Does the best seed really come from the first screening? (In Italian.) *Agr. Tosc.* 3: 269-271. Sept. 1948. 16 Ag827  
Experiments on wheat seed of different sizes. From Cooperatore Agricola, April 1948.
- 8508 MEULEN, J. G. J. VAN DER, and OPHOF, A. J. De rijstvariëteit Oentoeng [The rice variety "Oentoeng"]. *East Indies (Dutch) Alg. Proefsta. v. Landb. Meded.* 62, 24 p. 1948. 109.5 Ea73  
English summary.
- 8509 MIRAMONTES M., H. La avena. *Agr. Mex.* 64(6/7): 6-7. (Concl.) June/July 1948. 8 Ag8
- 8510 MISSOURI UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Sow winter barley for fall pasture and early grain. *Columbia?* 1948. 6 p.-folder. 275.2 M69Sow
- 8511 NIKITENKO, I. Time and methods of harvesting grain crops [U. S. S. R.]. (In Russian.) *Sofsiatist. Sel'sk. Khoz.* 19(5): 48-51. May 1948. 281.8 So73
- 8512 NORVAL, R. The cultivation of hybrid corn. (In Afrikaans.) *Landbouweekblad* 30(1529): 34-36. Nov. 3, 1948. 24 L232
- 8513 OHIO SEED IMPROVEMENT ASSOCIATION. Seed sources. *Columbus*, 1948. 5 p.-folder. 225 Oh32Se  
Grain.
- 8514 OLSON, L. C. Corn fertility studies in Georgia. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 89-90. 1948. 4 C82  
Fertilizer and spacing tests.
- 8515 PANTANELLI, E. Southern grain technique. (In Italian.) *Gior. di Agr.* 58: 301. Oct. 31, 1948. 16 It1G  
Italy.
- 8516 PIACCO, R. Climate and rice culture. (In Italian.) *Risicoltura* 36: 140-144. June 1948. 5918 G43
- 8517 PIACCO, R. Comparative study of the principal varieties of rice cultivated in Italy. (In Italian.) *Risicoltura* 36: 27-33, 60-64, 135-139, 151-155. Feb.-July 1948. 59.8 G43
- 8518 PIACCO, R. The germinating power of rice and the new rice campaign. (In Italian.) *Risicoltura* 36: 58-59. Mar. 1948. 59.8 G43
- 8519 PIACCO, R. Muddy irrigation water and the germination of rice. (In Italian.) *Risicoltura* 36: 156-159. July 1948. 59.8 G43
- 8520 PIACCO, R. A new rice variety. (In Italian.) *Risicoltura* 36: 9-11. Jan. 1948. 59.8 G43
- 8521 PIACCO, R. Rice culture in Bocche del Rodano. (In Italian.) *Risicoltura* 36: 178-180. (To be cont.) Aug. 1948. 59.8 G43
- 8522 PIACCO, R. The variety American 1600. (In Italian.) *Risicoltura* 36: 19-22. Jan. 1948. 59.8 G43
- 8523 PINI, P. L. Cereal culture on Monte Amiata. (In Italian.) *Agr. Tosc.* 3: 278-280. Sept. 1948. 16 Ag827
- 8524 POZDENA, L. Gedanken zur herbstbestellung. *Burgenländische Bauernbündler* 1(18): 5. Sept. 25, 1948. 19 B91  
Grain production.
- 8525 RIERA, F. J. El alforfón, su cultivo y aprovechamiento. *Surco [Madrid]* 7(77): 11-15. July 1948. 15 Su7
- 8526 ROBL. Bodenbearbeitung, düngung und saat bei roggén. *Osterr. Bauernbündler* 4(37): 7. Sept. 18, 1948. 19 Os7
- 8527 ROGERS, T. H. Grain sorghum production in Alabama. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 90-92. 1948. 4 C82
- 8528 SAVITSKI, M. S. Biologicheskíe i agrotekhnicheskíe faktory vysokikh urozhayev zernovykh kul'tur [Biological and cultural factors of high yields of grain crops]. *Moskva, Sel'khozgiz*, 1948. 171 p. 59 Sa9
- 8529 SCHAAL, W. Vahart, a new Virginia wheat. *What's New in Crops & Soils* 1: 5. Oct. 1948. 6 W55
- 8530 SCHUCH, O. Rice fields and wheat. (In Portuguese.) *Lav. Arroz.* 2(18): 19. June 1948. 59.8 L39
- 8531 SIRRI, A. Advice on sorghums for selection of varieties for various climatic requirements. (In Italian.) *Ital. Agr.* 85: 573-577. Oct. 1948. 16 It1



8532 SOBRERO, L. R. Selección y mejoramiento de los cereales para semilla. Pampa Argentina 22(254): 9, 55. Oct. 1948. 9 P19

8533 SOKOLOV, A. A. Krupfanye kul'tury [Groats crops]. Moskva, Moskovskii Rabochii, 1948. 58 p. 59.27 So3

Buckwheat and proso.

8534 SOUZA, A. O. DE. Position of Brazilian rice culture as to yield per unit area. (In Portuguese.) Lav. Arroz. 2(19): 3-7. July 1948. 59.8 L39

8535 SOUZA, A. O. DE. The rice harvest in Rio Grande do Sul in 1946/1947. (In Portuguese.) Lav. Arroz. 2(18): 3-9. June 1948. 59.8 L39

8536 SOUZA, A. O. DE. The wheat fields of Rio Grande do Sul should be a continuation of its rice fields. (In Portuguese.) Lav. Arroz. 2(21): 11-12, 56. Sept. 1948. 59 L39

8537 STANTON, T. R. The present status of oat improvement in the South. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 92-93. 1948. 4 C82

8538 STARK, E. Contributions of Russian plant-introductions to the development of Canadian cereal crops. Sci. Agr. 28: 425-443. Ref. Oct. 1948. 7 Sci2

8539 TALLARICO, G. Dry years and seed. (In Italian.) Risveglio Agr. 7: 271-272. Aug. 15/31, 1948. 16 R49

Chiefly grain.

8540 THOMAS, I. W. A. Flour Millowners' Association 50 acre wheat crop competition. West. Austral. Dept. Agr. Leaflet 925, 22 p. 1947. 23 W52B

8541 VANNUCCINI, G. Fantasy on perennial grain. (In Italian.) Gior. di Agr. 57: 9. Jan. 12, 1947. 16 It1G

8542 VIK, K. Trials through 9 years with new varieties and lines of spring wheat in comparison with older varieties. (In Norwegian.) Norges Landbruks-høgsk. Meld. 28: 367-398. 1948. 104 N762M

English summary.

8543 VOLANTI, U. First data on production of American hybrids. (In Italian.) Agr. Bresciana 1(38): 1. Sept. 22, 1948. 16 Ag89

Corn.

8544 WELLHAUSEN, E. J. Comparación de variedades del maíz obtenidas en el Bajío, Jalisco y en la Mesa Central. Mex. Sec. de Agr. y Ganad. Fol. Téc. 1, 40 p. Dec. 1947. 8 M577F

English summary.

8545 WHITLOW, S. A new variety. Rice News 15 (11): 9. Nov. 1948. 59.8 R362

8546 YANOVSKY, J. Observations in the cereal fields. (In Hebrew.) Hassadeh 28: 501-502. Sept. 1948. 26 H27

8547 YOSHIEKA, K. Studies on direct planting of paddy rice. (In Japanese.) Tokyo, Ito Book Co., 1948. 324 p. 59.24 Y8

#### Fiber Crops

8548 ANDERSON, J. A., and LEVI, I. The quality of western Canadian flax, 1948 crop. Canada. Grain Res. Lab. Crop B. 32, 15 p. Nov. 1948. 73.9 C162

8549 AVTONOMOV, A. I. Cross pollination, self-pollination and intervarietal crossing of Egyptian cotton. (In Russian.) In Tashkent. TSentral'naia Seleksionnafa Stanfsiia Seleksifia Khlopchatnika, p. 137-168. Ref. Tashkent, Gos. Izd-vo UzSSR, 1948. 72 T183Se

8550 AVTONOMOV, A. I. Selection of Egyptian cotton. (In Russian.) In Tashkent. TSentral'naia Seleksionnafa Stanfsiia Seleksifia Khlopchatnika, p. 109-136. Tashkent, Gos. Izd-vo UzSSR, 1948. 72 T183Se

8551 AXELSON, C. A. Hemp culture in Lappmark in former days. (In Swedish.) Västerbotten 1947: 94-95. Oct. 1947. 11 V442

8552 BAGGE, H. Culture experiments with oil flax, 1940-1945. (In Danish.) Denmark. Statens Forsøgs-virks. i Plantekultur. Beret. 404, p. 310-330. København, 1947. 11 D412

8553 BAILEY, M. V. The future of defoliation. Southwest. Crop & Stock 2(11): 9, 35. Nov. 1948. 6 So8942

Chemical defoliation of cotton.

8554 BALLS, W. L. Twenty years in the Cotton Research Board at Giza. Empire Cotton Growing Rev. 25: 262-267. Oct. 1948. 72.8 Em7

8555 BLIN, H. Pour la renaissance de la culture du chanvre. Monit. Agr. 1(43): 16. Nov. 7, 1948. 14 M744

8556 CROSBY, J. Cotton gets new look from defoliants. Calif. Farmer, South. Ed. 189: 445. Nov. 20, 1948. 6 C126A

Cyanamid.

8557 DADABAEV, A. D. Selection of wool-like cotton varieties. (In Russian.) In Tashkent. TSentral'naia Seleksionnafa Stanfsiia Seleksifia Khlopchatnika, p. 100-108. Ref. Tashkent, Gos. Izd-vo UzSSR, 1948. 72 T183Se

8558

DILLMAN, A. C. Flax, a winter crop for south Texas. Tex. Flax Impr. Assoc. B. 4, 7 p. 1948. 73.19 T31

Culture.

8559 EASLEY, T. Defoliation of cotton—a review of the research. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 79-81. 1948. 4 C82

8560 EIDEL'NANT, M. I. Methods of testing new lines and varieties of cotton. (In Russian.) In Tashkent. TSentral'naia Seleksionnafa Stanfsiia Seleksifia Khlopchatnika, p. 178-200. Tashkent, Gos. Izd-vo UzSSR, 1948. 72 T183Se

8561 FIELDING, W. L. Experimental methods with cotton. III-VI. Empire Cotton Growing Corp. Res. Mem. 6: 291-300, 154-162. 1948. 72.9 Em7R

III, Sulphuric acid treatment of cotton seed, and its effects on germination, development and yield, by D. Macdonald, W. L. Fielding, and D. F. Ruston; IV, A study of the effects of gap-filling on the development and yield of cotton plants in poor stands of hand planted cotton, by D. Macdonald, W. L. Fielding, and D. F. Ruston; V, A study of ginning percentage and its determination in variety trials, by W. L. Fielding; VI, The determination of staple-length in single plant selections and variety trials, by W. L. Fielding.

8562 FREDERIKSEN, P. S. Effect of soil temperature on germination of flax. (In Danish.) Lin. Dansk-Svensk Hørtidsskr. 1: 105-108. June 1947. 73.18 L63

8563 FREDERIKSEN, P. S. Observations on a number of flax varieties. (In Danish.) Lin. Dansk-Svensk Hørtidsskr. 1: 89-90. May 1947. 73.18 L63

8564 FREDERIKSEN, P. S. Plan for flax field experiments. (In Danish.) Lin. Dansk-Svensk Hørtidsskr. 1: 181-187. Oct. 1947. 73.18 L63

8565 GORODNIĬ, N. G., and others. Agrotekhnika konopli [Hemp culture]. Moskva, Sel'khozgiz, 1948. 134 p. 73.2 G68

I. I. Lukash, A. I. Arinshtein, and A. Z. Bakhireva, joint authors.

8566 GRANHALL, I. Swedish spinning flax experiments 1938-1945. (In Swedish.) Lin. Dansk-Svensk Hørtidsskr. 1: 2-6. Jan./Feb. 1947. 73.18 L63

8567 HEIDENDAHL, N. M. Swedish hemp and flax can give good results. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(50): 1, 15. Dec. 13, 1947. 11 J762

Yield and quality.

8568 HIJLKEMA, P. J. Flax breeding in the Netherlands. (In Danish.) Lin. Dansk-Svensk Hørtidsskr. 1: 119-122. July/Aug. 1947. 73.18 L63

8569 KANASH, S. S., STRAUMAL, B. P., and NAGIBIN, I. A. D. Results of 25 years of work by the TSentral'naia Seleksionnafa Stanfsiia of the Vsesoiuznyi Nauchno-Issledovatel'skii Institut Khopkovodstva. (In Russian.) In Tashkent. TSentral'naia Seleksionnafa Stanfsiia Seleksifia Khlopchatnika, p. 5-47. Tashkent, Gos. Izd-vo UzSSR, 1948. 72 T183Se

On cotton.

8570 KIST, J. M., and FRIEDERICH, J. C. Culture of some bark and fiber plants. (In Dutch.) Landbouwk. Tijdschr. 59: 337-345. Aug./Sept. 1947. 105.2 Or3

Roselle, jute and sisal.

8571 KOKUEV, V. I. Selection of early ripening cotton varieties. (In Russian.) In Tashkent. TSentral'naia Seleksionnafa Stanfsiia Seleksifia Khlopchatnika, p. 68-90. Ref. Tashkent, Gos. Izd-vo UzSSR, 1948. 72 T183Se

8572 POHL, J. Ramee, ramie or rhea (kloi). Planter 24: 582-587. Sept. 1948. 78.8 P69

8573 REMUSSI, C. El cultivo del lino textil. Bolsa de Cereales, Buenos Aires. Rev. 35(1867): 1-5. Oct. 7, 1948. 287 B866

8574 SCHOFFELMAYER, V. California's cotton success stems from research. 4. Cotton Trade J. 29(46): 7-8. Nov. 12, 1948. 72.8 C8214

8575 SCHOFFELMAYER, V. Years of work bring 'miracle' type Acala. Cotton Trade J. 29(46): 7-8. Nov. 12, 1948. 72.8 C8214



- 8576 SIMPSON, D. M. Hybrid vigor from natural crossing for improving cotton production. *Amer. Soc. Agron. J.* 40: 970-979. Ref. Nov. 1948. 4 Am34P
- 8577 STRAUMAL, B. P. Results of testing new cotton varieties during the period of 1939-1944. (In Russian.) In Tashkent. Tsentral'naya Seleksionnaya Stanfisiya Seleksifia Khlopchatnika, p. 48-67. Tashkent, Gos. Izd-vo UzSSR, 1948. 72 T183Se
- 8578 STRAUMAL, B. P. Selection of cotton varieties with colored fiber. (In Russian.) In Tashkent. Tsentral'naya Seleksionnaya Stanfisiya Seleksifia Khlopchatnika, p. 91-99. Ref. Tashkent, Gos. Izd-vo, UzSSR, 1948. 72 T183Se
- 8579 TASHKENT. TSENTRAL'NAIA SELEKTSIONNAIA STANTSIIA. Seleksifia khlopchatnika [Selection of cotton]. Tashkent, Gos. Izd-vo UzSSR, 1948. 200 p. 72 T183Se
- Forage Crops and Grasses
- 8580 AAMODT, O. S. Our new grassland philosophy. *What's New in Crops & Soils* 1: 6-7, 24. Oct. 1948. 6 W55
- 8581 AAMODT, O. S. The place of forage and pasture crops in southern agriculture. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 25-26. 1948. 4 C82
- 8582 ABERG, E. Planting of grasslands. (In Swedish.) *Försök och Forskning* 4: 70-72. May 1947. 11 F77
- 8583 AICHER, L. C. Buffalo alfalfa. *Kans. State Bd. Agr. Bien. Rpt.* (1945/46) 35: 22-26. 1948. 2 K13R
- 8584 ÅKERBERG, E., and JULÉN, G. Our Swedish red clover material in light of variety experiments. (In Swedish.) *Försök och Forskning* 4: 72-74. May 1947. 11 F77
- 8585 ALABOUVETTE, L. Plantes fourragères nouvelles. *Prog. Agr. et Vitic.* 1948: 197-199. Oct. 17/24, 1948. 14 P94
- 8586 ALLRED, B. W. Grassland management for conservation and profit. 2. Sheep and Goat Raiser 28(12): 22-25, 28. Sept. 1948. 45.8 Sh3
- 8587 ALLRED, B. W. Southwestern range plants; tobosa, galleta, and curlymesquite. *Sheep & Goat Raiser* 1948: 22-23. Oct. 1948. 45.8 Sh3
- 8588 ARAUJO, A. A. Forage plants for dairy farms. New velvetbeans. (In Portuguese.) *Lav. Arroz.* 2(19): 34-35. July 1948. 59.8 L39
- 8589 BARTENEV, F. Wild growing forage plants and grasses in crop rotations. (In Russian.) *Sovkhoz. Gaz.* 2158: 3. Aug. 1948. 20 So86
- 8590 BAUMGART, S. Sown pasture in the smallholders' settlements. (In Hebrew.) *Hassadeh* 28: 457-460. Aug. 1948. 26 H27
- 8591 BEN-MEIR, N. Some troubles of a fodder grower. (In Hebrew.) *Hassadeh* 28: 506-507. (Concl.) Sept. 1948. 26 H27
- 8592 BIRD, J. N. Early and late types of red clover. *Sci. Agr.* 28: 444-453. Ref. Oct. 1948. 7 Sci2
- 8593 BIRDSALL, J. E. Grass and legume seed crops in Alberta. *Alberta. Dept. Agr. Ext. Serv. C.* 79, rev., 15 p. Jan. 1948. 275.29 AL122
- 8594 BIRDSALL, J. E. Hay and pasture crops for Alberta. *Alberta. Dept. Agr. Ext. Serv. C.* 63, 11 p. June 1948. 275.29 AL122
- 8595 BJARNARSON, B. Legumes. (In Icelandic.) *Freyr* 43: 256-259. Aug. 1948. 11 F89
- 8596 BREEDLOVE, C. L. Autauga: new reseeding clover. *South. Seedsman* (11 i.e. 12): 24, 45. Dec. 1948. 61.8 So8
- 8597 BRUHN, H. D. Problems of forage curing in Wisconsin. *Washington?* 1948. 3 p. 60.1 B83
- 8598 BURTON, G. W. Coastal Bermuda grass. *Ga. Coastal Plain Agr. Expt. Sta. C.* 10, rev., 21 p. July 1948. 100 G292
- 8599 BURTON, G. W. New grasses promise better pastures for the South. *What's New in Crops & Soils* 1: 16-18, 24. Oct. 1948. 6 W55
- 8600 BUYS, A. C. The rationalization of forage plant culture. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 401-406. Sept. 1948. 105.2 Or3
- 8601 CARLSON, C. E. Haxtun loves lovegrass; a native grass starts its comeback for feed and soil conservation. *Colo. Rancher & Farmer* 2(23): 8. Dec. 11, 1948. 6 C714
- 8602 COETZEE, P. J. S. Principles of grassveld utilization. *Farming So. Africa* 23: 486-494. July 1948. 24 So842
- 8603 COLVARD, D. W. Ladino clover and orchard grass move into the Cotton Belt. *Carolina Farmer* 3(10): 8-9. Oct. 1948. 6 C223
- 8604 DAVIES, W. Grassland and the farmer. 5. Re-seeding. *Agr. Ireland* 5: 258-259, 261-262. Nov. 1948. 10.5 Ag8
- 8605 DAVIES, W. Which—and how much? *Farmers Weekly [London]* 29(18): 47. Oct. 29, 1948. 10 F2226
- 8606 DODD, D. R. Birdsfoot trefoil; new legume for Ohio. *Farm and Home Res. [Ohio Sta.]* 33: 156-161. Sept./Oct. 1948. 100 Oh3S
- 8607 EBY, C. The path to profit in eastern farming is grass covered. *East. States Coop.* 24(11): 6-8. Nov. 1948. 280.28 Ea7
- 8608 ELEFTherIOU, V. Seasonal forage crops. *Countryman [Nicosia]* 2(4): 5-6. Apr. 1948. 22.5 C83
- 8609 ESTÉVEZ, I. Pastoreo. *Mensajero Forest.* 6(59): 10, 12. Sept./Oct. 1948. 99.8 M522
- 8610 FERGUS, E. N., and JOHNSTONE, W. C. Kentucky 31 fescue; what it is and how it may be used. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 29-31. 1948. 4 C82
- 8611 FRANKENA, H. J. Culture of permanent pastures. (In Dutch.) *Landbouwk. Tijdschr.* 59: 127-135. Mar./May 1947. 105.2 Or3
- 8612 FRANKENA, H. J. Grass production must be raised [Netherlands]. (In Dutch.) *Boer en Tuinder* 2 (89): 4. Sept. 18, 1948. 12 B632
- 8613 GENTER, C. F., and JONES, G. D. Yields of component parts of silage corn varieties. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 81-83. 1948. 4 C82
- 8614 GILARDI R., L. Ensayo experimental de pastos. *Agronomia [Lima]* 12(51): 11-21. June/July 1947. 9.8 Ag83
- 8615 HARRISON, C. M. Forage crop management for higher yields. I-II. *Hoard's Dairyman* 93: 859, 876, 893. Nov. 25-Dec. 10, 1948. 44.8 H65
- 8616 HARVEY, B. H. Grassland management. *Farming [Norwich]* 2: 326-330. Nov. 1948. 10 F2236
- 8617 HEUSINKVELD, D. Red clover for Illinois. *Ill. Agr. Col. Ext. C.* 627, 24 p. Sept. 1948. 275.29 IL62C
- 8618 HODGES, E. M., JONES, D. W., and KIRK, W. G. Winter clovers for south Florida flatwoods. *Fla. Agr. Expt. Sta. Press B.* 654, 8 p. Sept. 1948. 100 F66S
- 8619 HOPPER, W. C. Pasture Protection Board of New South Wales. *Overseas Rpt. Agr. Devlpmt.* 5, 2 p. May 1948. 281.9 C16420
- 8620 HULL, A. C., JR. Depth, season, and row spacing for planting grasses on southern Idaho range lands. *Amer. Soc. Agron. J.* 40: 960-969. Ref. Nov. 1948. 4 Am34P
- 8621 HUNT, C. G. What improved pastures mean to Ontario. *O. A. C. Rev.* 61: 78-79. Nov. 1948. 276.8 On8
- 8622 HURST, F. Pastures and grazing crops re-make Mississippi farming. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(9): 16, 105. Sept. 1948. 6 So81
- 8623 IVERSEN, C. E. Lucerne growing. *Canterbury Chamber Com. Agr. B.* 230, 4 p. Sept. 1948. 23 C162
- 8624 JAMES, E. Experiments with alfalfa. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 97-98. 1948. 4 C82
- 8625 JEGOROW, W. Les leys anglais. (In Polish.) *Przegl. Hodowlany* 16: 215-220. July 1948. 49 P952
- 8626 JÓSAFATSSON, G. Clover culture in Húnaþing. (In Icelandic.) *Freyr* 43: 72-74. Feb./Mar. 1948. 11 F89
- 8627 JUNCKER, F. Forage plants and pasture problems in U. S. A. (In Danish.) *Tidsskr. for Landøkonomi* 1948: 480-489. Oct. 1948. 11 T43
- 8628 KÖNIG, F. Die mähweide; leistungvergleich zwischen weide, wiese und feldfutterbau. *Bavaria. Landesanst. f. Tierzucht in Grub. Mitt.* 1948(3/4): 3-12. 1948. 49 B32
- 8629 PASTURE management.



- 8629 KUGLER, W. F. El mejoramiento de la alfalfa en los Estados Unidos y el Canadá. IDIA; Inform. de Invest. Agr. 1(10): 9-12. Oct. 1948. 9 Id3
- 8630 KURTZ, L. D. A legume with a future—broadleaf birdsfoot trefoil. G. L. F. Week. Serv. Sched. 13(23): 1-2. Dec. 6, 1948. 280.28 G113W
- 8631 LAMBERTS, H. Culture, breeding and seed supply of forage lupine. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 60: 413-421. Sept. 1948. 105.2 Or3
- 8632 LIUBCHENKO, N. E. Supply of seeds in the sod and in soils of different types of meadows. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 30-35. 1948. 20 M857  
Study in self-sowing of grasses.
- 8633 LLOYD, W. H. Lower feed costs, the dairy-man's opportunity. Kraftsman, Prod. Ed. 6(5): 3, 19. Sept./Oct. 1948. 44.8 K85  
Grassland farming.
- 8634 LOVVORN, R. L. Ladino clover—Italian gift to North Carolina pastures. Better Crops with Plant Food 32(9): 9-10, 48-49. Nov. 1948. 6 B46
- 8635 MCCARTHY-BARRY, L. J. Pastos apropiados para la selva peruana. Serv. Coop. Interamer. de Prod. de Alimentos. Ser. Inform. Téc. 37, 9 p. Apr. 1948. 9.8 Se6
- 8636 MCNEW, E. Pastures can be profitable. Purdue Agr. 40: 6-7, 15. Oct. 1948. 6 P97  
Management.
- 8637 MAULDIN, R. C. Hubam clover put this farmer back into the dairy business. Texas Livestock J. 7(10): 8. Oct. 15, 1948. 49 T29
- 8638 MOTTA, M. S. Pasture experiments. Farmer [Kingston] 52: 46-47. Jan./Mar. 1948. 8 J223
- 8639 NUILA LÓPEZ, L. El Salvador debe producir más leguminosas. Rev. Ganad. [San Salvador] 8(106/107): 27-28. Sept./Oct. 1948. 8 R3292
- 8640 OSBORN, B. Effect of drought on range grasses. Sheep & Goat Raiser 1948: 14-17. Oct. 1948. 45.8 Sh3
- 8641 PETROV, V. P. Productivity of a clover pasture. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 161-165. 1948. 20 M857
- 8642 POOL, R. J. Marching with the grasses. Lincoln, U. of Nebr. Press, 1948. 210 p. Ref. 60.1 P78
- 8643 PRICE, C. W. Something new has been added to the Delta country. La. Stockman Farmer 1: 9, 22-23. Oct. 1948. 6 L933  
Pasture improvement.
- 8644 PRONCZUK, J. Important factors leading to self-sufficiency in green forage in this country. (In Polish.) Przegl. Hodowlany 16: 152-158. June 1948. 49 P952  
English summary.  
Pasture management.
- 8645 PUCCINI, G. How to plant subterranean clover. 5. (In Italian.) Terra [Firenze] 59(36): 3. Sept. 5, 1948. 16 T274
- 8646 RATTRAY, J. M. Programme and progress report of the Marandellas Pasture Research Station. Rhodesia Agr. J. 45: 255-275. May/June 1948. 24 R34  
Veld grazing and management.
- 8647 SAINI, H. R., and MALIK, H. C. Studies in Punjab moth (Phaseolus aconitifolius). Indian J. Agr. Sci. 17: 281-288. Ref. Oct. 1947. 22 Ag831
- 8648 SANDKÜHLER, W. Neuzeitliche weidewirtschaft. Landpost 4(11): 1-2. June 10, 1948. 18 L2329
- 8649 SANDLER, G. Betriebswirtschaftliches aus der weidewirtschaft. Allgäuer Bauernbl. 16: 206-207. Sept. 3, 1948. 18 AL53
- 8650 SCHONWANDT, M. Die weidewirtschaft des Kleinbauern. Landpost 4(5): 3-4. Mar. 10, 1948. 18 L2329
- 8651 SCHWANBOM, N., and FRÖIER, K. Survey of experiments with various methods of growing seeds of hay and pasture plants. (In Swedish.) Lantbruksakad. Tidskr. 87: 269-309. Ref. 1948. 104 Sw3  
English summary.
- 8652 STURKIE, D. G. Alfalfa experiments in Alabama. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 93-94. 1948. 4 C82
- 8653 TAYLOR, D. Effective and continuous conservation. Texas Livestock J. 7(10): 7. Oct. 15, 1948. 49 T29  
By improving pastures.
- 8654 TENNENBAUM, Y. On the sowing of clover at Gvar-'Am. (In Hebrew.) Hassadeh 28: 460-461. Aug. 1948. 26 H27
- 8655 TRABAUER, F. Die Stellung der Weide im landwirtschaftlichen Betrieb. Landwirtschaft 1948: 224-225. Aug. 21, 1948. 19 L235
- 8656 TYSDAL, H. M. New alfalfa varieties. What's New in Crops & Soils 1(2): 6-7, 21. Nov. 1948. 6 W55
- 8657 UNDERWOOD, J. K. Development of the Tennessee grass program. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 28-29. 1948. 4 C82
- 8658 VILMORIN, R. DE. Plantes de prairies. Acad. d'Agr. de France. Compt. Rend. 34: 795-796. June 30/July 7, 1948. 14 P215Bc
- 8659 WATKINS, J. M., and CHAVES VIAUD, A. Forraje para la estación seca en El Salvador. Inst. de Defensa del Café de Costa Rica. Rev. 19: 118-128. June 1948. 68.28 C82
- 8660 WHITNEY, D. J. New plants for irrigated pastures. Calif. Farmer, North. Ed. 189: 390-391. Nov. 6, 1948. 6 C126
- 8661 WHITTET, J. N. Pasture management. I. With particular reference to the care of sown pastures. Wilcox Mofflin Q. 3(2): 65-67. July 1948. 23 W64
- 8662 WILLIAMS, O. G. Simple grass seeds mixtures. Farming [Norwich] 9: 303-307. Oct. 1948. 10 F2236
- 8663 WRAIGHT, J. D. Seed production in New Zealand; Montgomery red clover. New Zeal. J. Agr. 77: 117-124. Aug. 1948. 23 N48J

## Oil Crops

- 8664 BÄRNHEIM, C. Oil plant culture in Middle Sweden. (In Swedish.) Lantmannen 32: 713. Oct. 23, 1948. 11 L234
- 8665 BIGI, F. Culture of peanuts in Italian Somaliland. (In Italian.) Olearia 2: 582-586. Aug./Sept. 1948. 307.8 OL2
- 8666 GALLAND, J. W. How do [soybean] cultural practices and variety trends affect yields? Ill. Agr. Col. Ext. AG1348, p. 3-5. Dec. 30, 1947. 275.29 IL62Pag
- 8667 GARRAD, G. H. Some practical experiences with linseed. Kent Farmers' J. 64: 58. Oct. 1948. 10 K41  
Culture and harvesting.
- 8668 GOMES, P. Soybean culture. (In Portuguese.) Lav. Arroz. 2(18): 23. June 1948. 59.8 L39
- 8669 KLITSCH, C. Klarheit um den Winterraps! Deut. Landw. 2: 104-108. (To be cont.) July 1948. 18 D485
- 8670 KUGLER, W. F. El girasol en Canadá y los Estados Unidos. IDIA; Inform. de Invest. Agr. 1(9): 8-11. Sept. 1948. 9 Id3
- 8671 LIU, H. L. Genetic studies on soybeans. Urbana, 1948. 13 p. 463.69 L74  
Abstract of thesis - Univ. of Illinois.
- 8672 MOROZOV, V. K. Seleksiia podsolnechnika v SSSR [Sunflower selection in U.S.S.R.]. Moskva, Pishchepromizdat, 1947. 270 p. 77 M824S
- 8673 MUTH, W. Fingerzeige für den Winterrapsanbau. Neue Mitt. f. die Landw. 3: 253. Aug. 21, 1948. 18 N39
- 8674 PROBST, A. H., and CUTLER, G. H. Hawkeye soybeans for Indiana. Ind. Agr. Expt. Sta. C. 343, 9 p. 1948. 100 In2P
- 8675 RICHTHOFEN-BOGUSLAWITZ, P. FREIHERR VON. Rapsbau in Büschen. Neue Mitt. f. die Landw. 3: 395-396. Nov. 15, 1948. 18 N39
- 8676 RODRIGUEZ, J. P. La soya en Puerto Rico. Puerto Rico (Rio Piedras). Agr. Expt. Sta. B. 75, 24 p. Oct. 1947. 100 P83
- 8677 STREET, A. G. Harvesting linseed. Gt. Brit. Min. Agr. Agriculture 55: 329-331. Nov. 1948. 10 G79J
- 8678 WEBER, C. R., and WEISS, M. G. Adams, a new soybean. Iowa State Col. Ext. Iowa Farm Sci. 3(5): 3-5. Nov. 1948. 275.28 Io94



## Sugar Crops

- 8679 ACHARD, J. Une grande démonstration betteravière, Mormant, 1948. Conféd. Gén. des Planteurs de Betteraves. B. d'Inform. 38: 1. Sept. 1948. 66.9 C762
- 8680 ALMEIDA, D. Impressions of a sugarcane area in Bahia. (In Portuguese.) Brasil Açucareiro 32: 160. July/Aug. 1948. 65.8 B73
- 8681 BEAUCHAMP, C. E. La agricultura de la caña en Puerto Rico. Zafra 1(7): 6-11. July 1948. 65.8 Z12
- 8682 BRANDES, E. W. Cruces de variedades de caña. Zafra 1(8): 40-41. Aug. 1948. 65.8 Z12
- 8683 BRANDES, E. W. Neuvas teorías sobre cruzamientos de cañas de azúcar. Zafra 1(9): 14-21. Sept. 1948. 65.8 Z12
- 8684 BRITISH WEST INDIES SUGAR ASSOCIATION. Reports on research work, 1947. Barbados, 1948. 39 p. 65.9 B774
- Includes Researches on sugar-cane agriculture in the British West Indies and British Guiana, 1947, by P. E. Turner, p. 1-34.
- 8685 CLEMENTS, H. F. Crop logging sugar cane in Hawaii. Better Crops with Plant Food 32(9): 11-18, 45-48. Nov. 1948. 6 B46
- 8686 DUTT, N. L., RAO, J. T., and DAVIS, T. A. Uniform glazed pans for raising sugarcane seedlings. Cur. Sci. 17: 270-271. Sept. 1948. 475 Sci23
- 8687 FIELDING, W. L. Science aids progress in sugar production; introduction of new cane varieties has increased industry's average yield by fifty per cent. Farmer's Weekly [Bloemfontein] 76: 52-53, 55, 57. Oct. 27, 1948. 24 F225
- 8688 HAWAIIAN SUGAR PLANTERS' ASSOCIATION. Annual report of the president, 1948. n. p., 1948. 16 p. 65.9 H314A
- 8689 KNOWLES, W. H. C., and CAMERON, C. Field experiments with sugar cane. XVI. Brit. Guiana. Dept. Agr. Sugar Expt. Stas. Com. Sugar B. 16: 1-46. 1947. 65.9 B773
- 8690 KNOWLES, W. H. C. The variety and fertilizer position of the sugar industry. XIII. Brit. Guiana. Dept. Agr. Sugar Expt. Stas. Com. Sugar B. 16: 47-53. 1947. 65.9 B773
- 8691 LOPEZ Y FERRER, F. A. Cultivo intensivo para la caña. Zafra 1(4): 33-34. Apr. 1948. 65.8 Z12
- 8692 MORALES, M. O. Método para la propagación rápida de la caña. Ganado 2(9): 37-38. Aug. 1948. 49 G153
- 8693 MUÑOZ, B. Datos esenciales sobre la caña de azúcar. Retiro Azucarero 3(2): 28-30; (3): 27-29; (4): 27-28. Mar./Apr.-July/Aug. 1947. 65.8 R31
- 8694 PAREJA EGUEZ, O. La caña de azúcar. Campo [La Paz] 2(14): 14-16. (Cont.) June 1948. 9.1 C15
- 8695 SIMON, M. L'influence de quelques traitements de la graine de betterave sucrière sur la conservation de ses facultés germinatives. Inst. Belge pour l'Amélior. de la Betterave. P. 16: 219-222. July/Aug. 1948. 66.9 In7
- English and Flemish summaries.

## Tobacco

- 8696 BENNETT, R. R., and HAWKS, S. N., JR. What variety of tobacco should I grow? Prog. Farmer, Car.-Va. Ed. 63(12): 15. Dec. 1948. 6 P945
- 8697 BOYDEN, L. K. Marginal lands of Virginia and Carolina yield high grade Turkish tobacco. West. Tobacco J. 75(48): 51-53. Nov. 30, 1948. 286.89 W52
- 8698 KING, G. H. Preparing the tobacco bed. Prog. Farmer, Ga.-Ala.Fla. Ed. 63(12): 14. Dec. 1948. 6 P945G
- 8699 LECOMTE, H. Le tabac en A. O. F. Rev. des Tabacs 23(183): 19-21. Autumn 1948. 69.8 R325
- Afrique Occidentale Française.
- 8700 MCMURTREY, J. E., JR., and others. Effects of controlled soil moisture on growth, composition, yield, and quality of Maryland tobacco. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 88-89. 1948. 4 C82
- J. D. Bowling, D. E. Brown, and H. B. Engle, joint authors.
- 8701 PERUCCI, E. The "Resistant 142." (In Italian.) Tabacco 52: 263-278. (Cont.) Sept. 1948. 69.8 T115
- 8702 SCHAAL, W. New Vesta tobaccos. What's New in Crops & Soils 1(2): 10-11. Nov. 1948. 6 W55
- 8703 VASQUEZ L., N. El tabaco en Caldas. Agr. Trop. 4(10): 43-46. Oct. 15, 1948. 26 Ag8

- 8704 YU, T. T., and TSU, C. T. The studies of tobaccos cultivated in Yunnan. (In Chinese.) Agr. Assoc. China. J. 185: 33-54. Nov. 1947. 22.5 Ag862
- English summary.

## HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

## General

- 8705 ALBERTA HORTICULTURAL ADVISORY COMMITTEE. Recommended horticultural varieties and zonation map for Alberta. Edmonton, 1948. 18 p.-folder. 82 AL1
- 8706 ALMAN, R. K. Municipal nurseries. Arborist's News 13(11): 93-96. Nov. 1948. 99.8 Ar14
- 8707 AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE. Proceedings, v. 51. East Lansing, Mich., 1948. 720 p. 81 So12
- 8708 ARRUDA, A. F. DE. My garden: invitation to horticulture. (In Portuguese.) Chacaras e Quintais 78: 318-321, 459-461. Sept. 15-Oct. 15, 1948. 9.2 C34
- 8709 BELLMANN, K. Gartenbau und rundfunk. Thür. Gartenbau 1948: 152. Sept. 1948. 80 T42
- 8710 CAMERON, A. E. Coomealla research; 300 acres reserved for horticultural research station near Coomealla Settlement. Citrus News 24: 133. Sept. 1948. 80 C494
- 8711 CHADWICK, L. C., and HOUSTON, R. A preliminary report on the pre-storage defoliation of some trees and shrubs. Amer. Soc. Hort. Sci. Proc. 51: 659-667. June 1948. 81 So12
- 8712 DEARBORN, C. H. Preliminary notes on frost prevention under cold frame glass by sprinkling the glass with cold water. Amer. Soc. Hort. Sci. Proc. 51: 493-496. June 1948. 81 So12
- 8713 DEBRACH, J. Climats, microclimats & horticulture. Soc. d'Hort. et d'Acclim. du Maroc. B. 33: 90-93. Third Quart. 1948. 87 So1
- 8714 DURME, M. VAN. On the centennial of the Wetterse Tree-nursery. (In Flemish.) Cult. en Handel 14: 626-627. Oct. 1948. 80 C892
- 8715 ELLIOTT, J. H. New hope for weary gardeners. O. A. C. Rev. 61(1): 29-30. Oct. 1948. 276.8 On8
- Seed pellets.
- 8716 GREEN, S. Why doesn't my seed grow. (In Swedish.) Trädgårdstidningen 20(7/8): 21. Apr. 1948. 80 T67
- 8717 GYLLING, A. The consultant service in the Jutland Garden Society. (In Danish.) Haven 48: 120-121. Aug./Sept. 1948. 80 H29
- 8718 HEIL, A. "Die Gartenbauwirtschaft": die zeitung der fachverbände. Gartenbauwirtschaft [Hannover] 1(16): 1. July 17, 1948. 80 G1922
- 8719 HENKES, H. J. M. Horticulture and the custom union. (In Dutch.) Tuinbouw 3: 31-33. Feb. 1948. 80 T815
- 8720 HENKES, H. J. M. Some aspects of the horticultural center Boskoop. (In Dutch.) Tuinbouw 3: 59-63. Mar. 1948. 80 T815
- 8721 HURFF, E. K. To graft or not to graft. Gard. Gossip 23: 13, 18. Nov. 1948. 80 G1625
- 8722 INDIANA HORTICULTURAL SOCIETY. Transactions for the year 1947, being a report of the eighty-seventh annual meeting. Lafayette, 1948. 87 p. 81 In2
- 8723 KANSAS STATE HORTICULTURAL SOCIETY. The biennial report, recording the transactions of the annual meetings and the horticultural statistics for the years 1946-1947, v. 49. Topeka, Kans., 1948. 188 p. 81 K13
- 8724 KEYRES, G. E. Multiplication des arbres et arbustes. Arbres et Fruits 31: 13-20, 27. (Concl.) Sept. 1948. 80 Ar1
- 8725 LAMMERT, A. Der schleichende frühherbst. Bodenfrost. Gartenjahr 3: 140-142. Sept. 1948. 80 G1932
- 8726 LENANDER, S. E. Experiences from a study trip to horticultural experimentation stations in England and Denmark. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 199-213. 86 Sv2
- 8727 LOTHIAN, N. R. The use of sphagnum moss in plant propagation. Lincoln Col. Rur. Ed. B. 3(8): 14-16. Sept. 1948. 109 L63R



- 8728 MARYLAND STATE HORTICULTURAL SOCIETY. Proceedings of the fiftieth annual meeting, Hagerstown, Md., January 5 and 6, 1948. Hagerstown, 1948. 40 p. 81 M36
- 8729 MERZ, E. Training program vital to nursery industry. Pacific Coast Nurseryman 7(11): 10, 16. (To be cont.) Nov. 1948. 80 P116
- 8730 NAVLET, A. E. Vermiculite—horticulture's magic substance. Seed World 63(10): 12, 14, 44. Nov. 21, 1948. 61 Se52
- 8731 NONKES, J. Growth of Westland in fifty years. (In Dutch.) Groenten en Fruit 4: 132. Sept. 2, 1948. 80 G89
- 8732 NUBOURGH, Y. De la mission sociale qu'auront à remplir les horticulteurs dans le relèvement du pays. B. Hort. (n. s.) 3: 231-237. Aug. 1, 1948. 80 B873
- 8733 O'DONNELL, T. C. A garden for you. New York, McBride, 1948. 199 p. 97 Od5  
Includes Bigger and Better Roses, by G. F. Mappin.
- 8734 O'ROURKE, F. L., and MAXON, M. A. Effect of particle size of vermiculite media on the rooting of cuttings. Amer. Soc. Hort. Sci. Proc. 51: 654-656. June 1948. 81 So12
- 8735 PENINSULA HORTICULTURAL SOCIETY. Transactions, sixty-first annual meeting, Salisbury, Maryland, December 16 and 17, 1947. n. p., 1947. 78 p. 81 P37
- 8736 PERRY, F. Plant protection in winter. Amateur Gard. 65(3364): 20. Nov. 2, 1948. 80 Am13
- 8737 PHILLIPS, G. A. Planning the small garden. Gard. Work Amateurs 69: 108-109. Oct. 30, 1948. 80 G1627
- 8738 PLASSCHE, A. W. VAN DE. Horticulture in Switzerland. (In Dutch.) Tuinbouw 3: 36-40. Feb. 1948. 80 T815
- 8739 PRIDHAM, A. M. S. Comparison of quartz sand, cinders and vermiculite in rooting of evergreen cuttings. Amer. Soc. Hort. Sci. Proc. 51: 657-658. June 1948. 81 So12
- 8740 QUARRELL, C. P. Commercial cloche gardening. Nurseryman & Seedsman 107: 1028-1029. Oct. 7, 1948. 80 N933
- 8741 RADFORD, G. V. Soilless culture; developments in commercial scale growing. Elect. Times 114: 635-636. Nov. 25, 1948. 335.8 EL26
- 8742 RAUCH, A. Der wanderkasten und die schutzvorrichtungen. Gärt.-Kurier 2(17): 2-4. Sept. 1, 1948. 80 G1942
- 8743 RICHARDS, A. A. Glasshouse hygiene. Amateur Gard. 65(3364): 20. Nov. 2, 1948. 80 Am13
- 8744 RODENBURG, J. W. M. Artificial light for hot house plants. (In Dutch.) Tuinbouw 3: 258-260. Oct. 1948. 80 T815
- 8745 ROY, P. Culture sans sol. Courrier Hort. 10: 596-599. Oct. 1948. 80 C834
- 8746 SANZ, J. A. La huerta familiar. Chacra 19(217): 26. Nov. 1948. 9 C34
- 8747 SARRABAY, J. Au sujet de la greffe mayoquine. Rev. Agr. de l'Afrique du Nord 46: 470-474. Sept. 17, 1948. 80 R326
- 8748 SCHMIDT, P. Selbsthilfe durch sommerkveredlung. Gartenjahr 8: 110-111. July 1948. 80 G1932
- 8749 SCHÜTTAUF, H. Betrachtungen zur gartenbau-ausstellung in Leipzig-Markleeberg 1948. Thür. Gartenbau 1948: 165. Oct. 1, 1948. 80 T42
- 8750 SHEWELL-COOPER, W. E. Continuous cloche gardening. n. p., English U. Press, 1948. 139 p. 90.13 Sh5
- 8751 SIMONS, A. J. Protecting crops from the weather. Gard. Work Amateurs 68: 554-556. Sept. 11, 1948. 80 G1627
- 8752 SMEDT, A. DE. The tree nursery industry in Belgium from 1880 to 1946. (In Dutch.) Tuinbouw-berichten 12: 124-125. Aug. 15, 1948. 80 T817
- 8753 SOUTH AFRICA. DEPT. OF AGRICULTURE. Registered nurseries and dealers in plants and trees, 1947/48. Pretoria, 1947. 17 p. 225 So823
- 8754 SOUTHWELL, V. G. Plants for the school room. Gard. Chron. Amer. 52: 328. Dec. 1948. 80 G1632
- 8755 SPURLING, C. J. Tackling the frost problem. Essex Farmers' J. 27(6): 25, 27. Aug. 1948. 10 Es72  
Fighting frost in the fruit orchard.
- 8756 STEDMAN, E. B. Nursery cost accounting. Amer. Nurseryman 88(10): 7-11. Nov. 15, 1948. 80 Am371
- 8757 TORNIUS, V. Gärten in alter und neuer zeit. Natur u. Nahr. 2(17/18): 5-9. Sept. 1948. 80 N218
- 8758 TUKEY, H. B. Horticulture in science and society. Amer. Soc. Hort. Sci. Proc. 51: 685-694. Ref. June 1948. 81 So12
- 8759 ULLRICH, H. Vom pfropfen und veredeln. Kosmos 44: 63-68. Mar. 1948. 474 K842
- 8760 VANDENDAEL, P. Economic aspects of the tree nursery and flower industry. (In Flemish.) Tuinbouwberichten 12: 117-118. Aug. 15, 1948. 80 T817
- 8761 VEKHOV, N. K. Otvodkovoe razmnozhenie drevesnykh i kustarnikovykh porod [Layering of trees and shrubs]. Moskva, Ministerstvo Kommunal'nogo Khoziaistva RSFSR, 1948. 121 p. 90.11 V530
- 8762 WANSCHER, J. H. Report on the variety problem in horticulture. (In Danish.) Nord. Jordbrugsforsk. 1948: 358-363. 11 N752  
Discussion, p. 363-364.  
Terminology.
- 8763 WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Garden to save wheat, save meat, save the peace, and help win the battle against inflation. Morgantown, 1948? 8 p.-folder 275.2 W52Gs
- 8764 WILSON, F. C. How to use the garden catalogues. Gard. Chron. Amer. 52: 319, 332. Dec. 1948. 80 G1632
- 8765 WILSON, F. C. Winter protection of plants. Gard. Chron. Amer. 52: 294, 309. Nov. 1948. 80 G1632
- 8766 WITTROCK, G. L. The pruning book, fruit trees & ornamentals. Illus. by D. Clark. Emmaus, Pa., Rodale Press, 1948. 175 p. 90.12 W78

## Fruits--General

- 8767 ALBRECHT, W. B. E. Schneiden sie ihre blü-  
tengehölze richtig? Obst- u. Gartenbau 3: 52-53. Sept. 1, 1948. 80 Ob72
- 8768 ALDERMAN, W. H. Fruit breeding—past, present and future. Amer. Soc. Hort. Sci. Proc. 51: 670-684. June 1948. 81 So12
- 8769 BASSET, L. L'arboriculture fruitière dans le Département des Pyrénées-Orientales. Cong. Pomol. de France. Sess. 78: 20-35. 1947. 93.09 C7643  
Discussion, p. 35-37.
- 8770 BERLIN. UNIVERSITÄT. INSTITUT FÜR OBSTBAU. Betriebswirtschaftliche und physiologische betrachtungen über die mischkultur im deutschen obstbau. Berlin. U. Inst. f. Obstbau. Merkbl. 9, 20 p. July 1948. 93.6 B45
- 8771 BERLIN. UNIVERSITÄT. INSTITUT FÜR OBSTBAU. Strassenobstbau. Berlin. U. Inst. f. Obstbau Merkbl. 8, 16 p. June 1948. 93.6 B45
- 8772 BERTOLINI, V. DE. Observations on the technique of [fruit] pruning. (In Italian.) Agr. Trentina 3(6): 2-3. Mar. 15, 1948. 16 Ag8263
- 8773 BOCHET, C. Les effets du soleil dans une plantation fruitière en Provence. Réveil Agr. 57: 273. Sept. 15, 1948. 14 R322
- 8774 BORGSTRÖM, G. Fruit growing in Argentina and Chile with special reference to production of apples and pears. (In Swedish.) Sveriges Pomol. Förs. Årsskr. 1947: 159-184. 86 Sv2
- 8775 BREGGER, J. T. Fruit variety survey, pear, raspberry, and blueberry. Fruit Varieties & Hort. Digest 3: 90-93. Winter 1948. 80 F9469
- 8776 BROWN, I. L. Care of young fruit trees essential for a profitable orchard. New Zeal. J. Agr. 77: 167-169, 171. Aug. 1948. 23 N48J
- 8777 BUSCH, F. A. Der obstbaumpfahl schädling-frei. Thür. Gartenbau 1948: 167. Oct. 1, 1948. 80 T42
- 8778 BUSH, R. Timing sprays for best results. Grower 30: 615, 617. Oct. 16, 1948. 286.83 M34  
Fruit.
- 8779 CAROLIN, J. D. Thinning of fruit crops essential for best results. New Zeal. J. Agr. 77: 197-199. Aug. 1948. 23 N48J
- 8780 CARROL, M. Fruit in your garden. Veld Trust News 5: 44. Oct. 1948. 56.8 V54
- 8781 CROWTHER, D. S. Pillar training of fruit trees. Gard. Illus. 65: 213. Nov. 1948. 80 G169
- 8782 CROWTHER, D. S. Transplanting fruit trees. Amateur Gard. 65(3364): 16. Nov. 2, 1948. 80 Am13
- 8783 DERMINE, E. Cueillir un fruit est un art. Fruit Belge 16: 129-133. Sept. 1948. 80 F9493



- 8784 DEVILLARD, R. Le bilan d'une année de travail à l'École d'Arboriculture d'Avignon. Vaucluse Agr. 4(75): 7. Sept. 15, 1948. 14 V26
- 8785 DORSEY, M. J. What can the grower do to regulate the quality of fruit? Kans. State Hort. Soc. Bien. Rpt. 49: 119-121. 1948. 81 K13
- 8786 FAIVRE, M. La production fruitière en Aveyron. Potasse 22: 168-170. Oct. 1948. 57.8 P84
- 8787 GREEN, J. J. How to prune fruit trees. North. Gard. 2: 497-498. Sept. 1948. 80 N816
- 8788 GUBBELS, J. W. Fruit culture in Limburg. (In Dutch.) Groenten en Fruit 4: 250. Oct. 28, 1948. 80 G89
- 8789 GUBBELS, J. W. Survey of fruit culture in Limburg. (In Dutch.) Groenten en Fruit 3: 396. Jan. 29, 1948. 80 G89
- 8790 HEISEY, S. A., and others. Grower experiences in freeze control. Md. State Hort. Soc. Proc. 50: 24-27. 1948. 81 M36
- E. D. McCain, E. C. McFadden, and D. E. Rinehart, joint authors.
- 8791 HEUSSER, J. Obstbau und obstverwertung in den U.S.A. Schweiz. Z. f. Obst- u. Weinbau 57: 322-326. (To be cont.) Sept. 11, 1948. 80 Sch9
- 8792 HEYER, Blühen und fruchten der obstgehölze. Gartenjahr 3: 142-144. Sept. 1948. 80 G1932
- 8793 HÜBNER, F. W. Selbstanzucht von obstbäumen? Gartenjahr 3: 136-138. Sept. 1948. 80 G1932
- 8794 HUGHES, H. M. Fruit tree shapes explained. Amateur Gard. 65(3358): 14. Sept. 21, 1948. 80 Am13
- 8795 IGNATIUS, J. C. W. L'arboriculture fruitière commerciale dans les Pays-Bas. Arbres et Fruits 31: 3-11. Sept. 1948. 80 Ar1
- 8796 JAIVENOIS, A. Parmi les beaux vergers du Hainaut. L. Fruit Belge 16: 152-154. Oct. 1948. 80 F9493
- 8797 JOUGAN, E. Pour le traitement d'hiver des arbres fruitiers: produits de synthèse et colorants organiques. Monit. Agr. 1(41): 13. Oct. 24, 1948. 14 M744
- 8798 KESSLER, H. Ein unveröffentlichtes bildwerk über apfel-, birnen- und traubensorten von Dr. Caspar Tobias Zollikofer aus den jahren 1831-34. Schweiz. Z. f. Obst- u. Weinbau 57: 161-165. May 8, 1948. 80 Sch9
- 8799 LAMMERS, R. P. Important task in the fruit culture. (In Dutch.) Groenten en Fruit 4: 246. Oct. 28, 1948. 80 G89
- 8800 LANGEVIN, E. Pour vous qui voulez planter: quelle forme choisir? Rustica 21: 823. Nov. 21, 1948. 14 R92
- Fruit.
- 8801 LOUVAIN, P. Comment créer un verger. Réveil Agr. 57: 324-325. Nov. 1, 1948. 14 R322
- 8802 LOUVAIN, P. Vergers et production. Réveil Agr. 57: 279. Sept. 15, 1948. 14 R322
- 8803 LUCAS, E. Lucas anleitung zum obstbau, zum gebrauch an obst- und gartenbauschulen, an landwirtschaftlichen und ähnlichen lehranstalten sowie zum selbstunterricht. Ed. 24, ed. by H. Winkelmann. Stuttgart, Ulmer, 1948. 312 p. 93 L96
- 8804 MARCOULY, R. Cultures fruitières faciles. Paysan du Sud-Ouest 3(116): 1. Mar. 3, 1947. 14 P292
- 8805 MARINUCCI, M. Technique of fruit planting. (In Italian.) Gior. di Agr. 58: 269. Oct. 3, 1948. 16 It1G
- 8806 MARTIN, K. Ertragssteigernde kulturmassnahmen im obstbau: bodenbearbeitung, düngung, bewässerung. Gartenjahr 8: 100-102. July 1948. 80 G1932
- 8807 MARTIN, K. Ursachen des obstmangels während der frühjahrsmonate und deren behebung. Obst- u. Gartenbau 3: 51. Sept. 1, 1948. 80 Ob72
- 8808 MARTINEZ ZAPORTA, M. Seis años de experiencias sobre enraizamiento de portainjertos. Spain. Inst. Nac. de Invest. Agron. Cuaderno 97, 140 p. Ref. June 1948. 105.6 Sp14C
- French, English and German summaries.
- 8809 MAURER, J. K. Durch gerüstbildner ein krisenfester tafelo Obstbau. Schweiz. Z. f. Obst- u. Weinbau 57: 383-384, 399-403. Oct. 23-Nov. 6, 1948. 80 Sch9
- 8810 MAURER, K. J. Der wind, seine wirkungen und windschutzpflanzungen im obstbau. Gartenjahr 3: 131-134. Sept. 1948. 80 G1932
- 8811 NAJJAR, H. The grafting and budding of fruit trees. (In Arabic.) Syria. Ext. C. 19, 20 p. Feb. 1948. 22.5 Sy8
- English summary.
- 8812 NAJJAR, H. Planting the fruit orchard. (In Arabic.) Syria. Ext. Serv. C. 16 p. Dec. 1947. 22.5 Sy8
- English summary.
- 8813 NAJJAR, H. The pruning of bearing fruit trees. (In Arabic.) Syria. Ext. Serv. C. 17, 24 p. Jan. 1948. 22.5 Sy8
- English summary.
- 8814 NAJJAR, H. Pruning young fruit trees. (In Arabic.) Syria. Ext. Serv. C. 16, 14 p. Jan. 1948. 22.5 Sy8
- English summary.
- 8815 NAJJAR, H. Rejuvenating and topworking old fruit trees. (In Arabic.) Syria. Ext. Serv. C. 20, 20 p. Mar. 1948. 22.5 Sy8
- English summary.
- 8816 NILSSON, G. Impressions from a trip to Belgium and France fall 1947. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 188-198. 86 Sv2
- Fruit growing.
- 8817 OLDHAM, C. H. Planting a soft fruit garden. Amateur Gard. 65(3359): 20. Sept. 28, 1948. 80 Am13
- 8818 OLSEN, H. C. Current fruit culture problems in Denmark. (In Danish.) Haven 48: 167-171. Nov. 1948. 80 H29
- 8819 PÄHLMAN, A. Old sayings and proverbs about wind and weather, fruit and fruit culture. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 148-158. 86 Sv2
- 8820 PELKWIJK, A. J. TER. Wijster, an experimental garden for fruit bearing ligneous plants. (In Dutch.) Tuinbouw 3: 266-267. Oct. 1948. 80 T815
- 8821 PETERSEN, E. O. Fruit in the home garden. New Zeal. Homes & Gard. 18(7): 15-17. Oct. 1, 1948. 80 N4823
- 8822 PIQUER, G. Le climat et les arbres fruitiers. Fruit Belge 16: 145-147. (To be cont.) Oct. 1948. 80 F9493
- 8823 FRINZ, J. Obstbaum-unterlagen. Kärntner Bauer 98: 252-253. Aug. 1, 1948. 19 K14
- 8824 RAGLAND, C. H., and OVERCASH, J. P. Orchard and small fruit culture in Mississippi. Miss. Agr. Expt. Sta. B. 450, 59 p. Nov. 1947. 100 M69
- 8825 RENOUEF, L. R. Budding of fruit trees in spring. New Zeal. J. Agr. 77: 160. Aug. 1948. 23 N48J
- 8826 RODRIGUEZ AVILA, A. Restauración de árboles frutales. Ager 4: 114. June/July 1948. 33.23 Ag3
- 8827 ROTH. Vorsicht bei der beurteilung der frosthärte unserer obstsorten. Unser Wegweiser im Obstbau, Gart., Kleintierhof 3: 91. Aug. 1948. 18 Un7
- 8828 SARLE, C. F. Frost and the fruit grower. Md. State Hort. Soc. Proc. 50: 15-24. 1948. 81 M36
- 8829 SCHANDERL, H. Künstliche obstblütenbestäubung im amerikanischen plantagenobstbau. Obst- u. Gartenbau 3: 50. Sept. 1, 1948. 80 Ob72
- 8830 SCHEERER, G. Fruchtttragende hecken. Natur u. Nahr. 2(17/18): 18. Sept. 1948. 80 N218
- 8831 SCHWARZENBACH, W. Aus der geschichte unseres obstbaus. Schweiz. Z. f. Obst- u. Weinbau 57: 377-382. Oct. 23, 1948. 80 Sch9
- 8832 SHEWELL-COOPER, W. E. Recent fruit research. Report on cider apples and black currants. Field 192: 415. Oct. 9, 1948. 10 F45
- 8833 SKARD, O. Planting distance for fruit trees and berry bushes. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1948: 31. 86 N81
- 8834 SOLERE. La culture fruitière en Italie. Cong. Pomol. de France. Sess. 78: 38-50. 1947. 93.09 C7643
- 8835 TECOURT, R. L'arboriculture fruitière dans la région de Marrakech. Soc. d'Hort. et d'Acclim. du Maroc. B. 33: 54-58. Second Quart. 1948. 81 So2
- 8836 TRENKLE, R. Hoch- oder niederstämmiger obstbau? Unser Wegweiser im Obstbau, Gart., Kleintierhof 3: 94. Aug. 1948. 18 Un7
- 8837 WEISSENBERGER, O. Befruchtung der obstbäume. Landpost 4(6): 1-2. Mar. 25, 1948. 18 L2329
- 8838 ZWINTZSCHER, M. Zur züchtung von obstsorten mit extremen reifezeiten. Obst- u. Gartenbau 3: 49-50. Sept. 1, 1948. 80 Ob72



## Fruits--Citrus and Subtropical

- 8839 BATCHELOR, L. D., and WEBBER, H. J., eds. The citrus industry. Volume II, Production of the crop. Berkeley, U. Calif. Press, 1948. 933 p. Ref. 93.33 W38
- Contents: Ch. I, Nursery methods, by H. J. Webber, p. 1-68; Ch. II, Rootstocks: their character and reactions by H. J. Webber, p. 69-168; Ch. III, Choice of rootstocks, by L. D. Batchelor and M. B. Rounds, p. 169-222; Ch. IV, Selection of orchard site, by E. R. Parker, p. 223-258; Ch. V, Planning and planting the orchard, by R. G. LaRue and M. B. Rounds, p. 259-299; Ch. VI, Cultivation, or tillage, by W. R. Schoonover and L. D. Batchelor, p. 301-322; Ch. VII, Principles and methods of fertilization, by L. D. Batchelor, p. 323-381; Ch. VIII, Cover crops and green manures, p. 383-409; Ch. IX, Principles and methods of pruning, by R. W. Hodgson, p. 411-443; Ch. X, Principles and methods of irrigation, by M. R. Huberty, p. 445-493; Ch. XI, Diseases and their control, by H. S. Fawcett and L. J. Klotz, p. 495-596; Ch. XII, Biological control of insect pests, by H. S. Smith, p. 597-625; Ch. XIII, Biological control of citrus insects by parasitic fungi and bacteria, by H. S. Fawcett, p. 627-664; Ch. XIV, Insects and mites and their control, by A. M. Boyce, p. 665-812; Ch. XV, Quarantine and quarantine service, by H. S. Smith, p. 813-830; Ch. XVI, Injury by rodents and its control, by T. I. Storer, p. 831-846; Ch. XVII, Protecting the citrus orchard against frost, by F. D. Young and W. E. Harmon, p. 847-887; Ch. XVIII, Effects of freezes: treatment and recovery of injured trees, by H. J. Wilder, p. 889-918.
- 8840 BATCHELOR, L. D. History of the lemon strains used in storage tests. Calif. Citrog. 34: 2, 14, 16. Nov. 1948. 80 C125
- 8841 BLONDEL. Précautions à prendre pour la récolte des agrumes. Rev. Agr. de l'Afrique du Nord 45: 505-506. Oct. 24, 1947. 80 R326
- 8842 BURNIHAT. CITRUS FRUIT RESEARCH STATION. Annual report, 1946/47. Assam, 1947. 18 p. 87 B93A
- 8843 CAMERON, S. H., and HODGSON, R. W. Is pruning beneficial in crowded citrus groves? Calif. Farmer, South. Ed. 189: 339. Oct. 23, 1948. 6 C126A
- Similar title in Fruit & Veg. Rev. 9(8): 14-15. Nov. 1948. 80 C1224
- 8844 COURANJOU, A. L'alternance de récoltes sur mandariniers et orangers. Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc. 18: 338-339. Nov. 1948. 80 F9482
- 8845 COURANJOU, A. Quelques principes de cueillette et d'emballage de nos agrumes. Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc. 18: 303-306. Oct. 1948. 80 F9482
- 8846 DESSI, G. Citrus: culture and varieties in Sardinia. (In Italian.) Agr. Sarda 25: 215, 217, 219. July 1948. 16 Ag825
- 8847 FABELO SANTANA, P. El cultivo del plantano. Cooperación 7(74): 12-13. (Cont.) Apr. 1948. 280.28 C7875
- 8848 GREGORY, J. M. Litchi, Chinese-American. Nature Mag. 41: 521-522. Dec. 1948. 409.6 N214
- 8849 GROSZMANN, H. M. Pineapple culture in Queensland. Queensland Agr. J. 67: 78-100. Aug. 1948. 23 Q33
- 8850 HODGSON, R. W. Un estudio sobre la fructificación alternante del palto. Campesino [Santiago] 80 (10): 35, 37. Oct. 1948. 9.3 So12
- 8851 KALMER, J. Papaya: the tree of wealth. Indian Farming 9: 171. Apr. 1948. 22 In283
- 8852 MCALPIN, D. M., and LENG, A. D. Can we improve citrus growing in Australia? Farmer & Dairyman 40(500): 38. Sept. 1948. 23 F225
- 8853 MCALPIN, D. M. Lemon growing in Victoria. Victoria. Dept. Agr. J. 46: 433-441. Oct. 1948. 23 V66J
- 8854 MERIAM, M. C. Speaking of spot picking. Citrus [Tampa] 11(3): 12-14. Nov. 1948. 80 C498
- 8855 MIOTTO, G. Selection of certain varieties of kaki. (In Italian.) Gaz. Agr. [Padova] 26(1/2): 1-2. Jan. 17, 1947. 16 G254
- 8856 MONSELISE, S. P. The growth of citrus roots and shoots under different cultural conditions. Palestine J. Bot., Rehovot Ser. 6: 43-54. Ref. Dec. 1947. 450 P172
- 8857 PLAUT, N. Experiments with unfruitful Valencia orange trees. Palestine J. Bot., Rehovot Ser. 6: 58-62. Ref. Dec. 1947. 450 P172

- 8858 SILVEIRA, G. G. DA. Pineapple. (In Portuguese.) Chacaras e Quintais 78: 475. Oct. 15, 1948. 9.2 C34
- 8859 SINGH, K., and SINGH, S. Citrus propagation studies. Indian J. Agr. Sci. 17: 34-54. Ref. Feb. 1947. 22 Ag831
- 8860 SINGH, S., and NAGPAL, R. L. Citrus rootstock trials in the Punjab. III. Indian J. Agr. Sci. 17: 117-127. June 1947. 22 Ag831
- 8861 SKEPPER, A. Care of fruit trees. Citrus News 24: 141. Sept. 1948. 80 C494
- 8862 SWINGLE, W. T. Nucellar bud seedlings. Calif. Citrog. 34: 54, 66-67. Dec. 1948. 80 C125

## Fruits--Deciduous

- 8863 ALDRICH, W. W. Improved peach quality from better production practices. Peninsula Hort. Soc. Trans. 61: 19-22. 1947. 81 P37
- 8864 BARNETT, R. J. What is known about some apple varieties adapted to Kansas. Kans. State Hort. Soc. Bien. Rpt. 49: 137-148. 1948. 81 K13
- 8865 BEAR, E. M. Big packing stations mean fewer [apple] varieties. Grower 30(18): 735. Oct. 30, 1948. 286.83 M34
- 8866 BIRKELAND, C. J. Can unproductive apple seedlings be eliminated from the nursery row? Amer. Soc. Hort. Sci. Proc. 51: 123-128. Ref. June 1948. 81 So12
- 8867 BRASE, K. D. Field nursery tests with newly harvested and one- or two-year stored Lovell peach seed. Amer. Soc. Hort. Sci. Proc. 51: 258-262. June 1948. 81 So12
- 8868 BRAZELTON, J. S. Cherries easy to grow. Kans. Farmer 85(23): 19. Dec. 4, 1948. 6 K13
- 8869 BREVIGLIERI, N. Pruning of the peach tree. (In Italian.) Giorn. di Agr. 57: 39-40, 57, 93. Feb. 16, Mar. 9, Apr. 20, 1947. 16 It1G
- 8870 BRYDEN, J. D. Moderate [apple] pruning is best. Orchardist New Zeal. 21(6): 20. Sept. 6, 1948. 80 Or19
- 8871 BURKHOLDER, C. L. Apple bloom thinning with chemicals. Ind. Hort. Soc. Trans. (1947) 87: 54-58. 1948. 81 In2
- 8872 BUSH, R. Control of night frost. (In Dutch.) Tuinbouw 3: 234-236. Sept. 1948. 80 T815
- In orchards.
- 8873 CAUWENBERGHE, E. VAN. Plant hormones for control of preharvest drop of apples and pears. (In Flemish.) Tuinbouwberichten 12: 61-62. Apr. 15, 1948. 80 T817
- 8874 COHEN, H. Observations made in an experimental orchard at Givat-Haim. (In Hebrew.) Hassadeh 28: 517-519. Sept. 1948. 26 H27
- Apple and pear varieties.
- 8875 CONGRÈS POMOLOGIQUE DE FRANCE. Session, 78, 1947. Thoissey, Société Pomologique de France, 1947. 224 p. 93.09 C7643
- 8876 COPLEY, G. H. Peaches and nectarines. Fruit, Flower & Veg. Trades' J. 94: 583. Oct. 30, 1948. 80 F946
- 8877 COWART, F. F., and SAVAGE, E. F. Commercial peach varieties in Georgia. Ga. Agr. Expt. Sta. Press B. 602, 3 p. Oct. 20, 1948. 100 G29P
- 8878 DAVIDSON, J. H. Thinning apples with sprays. Ind. Hort. Soc. Trans. (1947) 87: 51-53. 1948. 81 In2
- 8879 DAY, L. H. Rootstocks for California apple trees. Calif. Fruit & Grape Grower 2(10): 9-10. Oct. 1948. 95.8 G762
- 8880 DESAYMARD, P. La mise à fruit des arbres fruitiers: recherches concernant le pommier. Inst. Natl. Agron. Paris. Ann. 34: 85-202. Ref. 1947. 105.3 In8
- 8881 ELLENWOOD, C. W. Why not rotation orchards? Ohio Farmer 202(11): 28. Dec. 4, 1948. 6 Oh3
- 8882 ERWES, K. Erfahrungen mit der Landsberger Renette. Gartenjahr 8: 109. July 1948. 80 G1932
- Pear variety.
- 8883 FERLENIUS, G. R. Kristianstad Province fruit culture zone map. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 185-187. 86 Sv2
- 8884 FRIDSTRÖM, A. E. Planting of fruit trees. (In Swedish.) Trädgårdstidningen 20(5/6): 20-21. Mar. 1948. 80 T67
- 8885 GERRITSEN, A. El cultivo de los manzanos en Holanda. Agrario 13(401): 8, 16. Sept. 1948. 9.3 Ag85



- 8886 GOLA, G. New and old peach culture. (In Italian.) Ital. Agr. 85: 563-572. Oct. 1948. 16 It1
- 8887 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Plums and cherries. Gt. Brit. Min. Agr. and Fisheries. B. 119, 74 p. 1948. 10 G794B
- 8888 GRÉEN, L. Selection of varieties for the orchard. (In Swedish.) Sveriges Pomol. För. Fruktd-laren 1948: 19-20. 86 Sv2F
- 8889 GRÉEN, S. Trailing fruit trees. (In Swedish.) Trädgårdstidningen 20(5/6): 5, 31. Mar. 1948. 80 T67
- 8890 GUBBELS, J. W. Cherry culture in Limburg. (In Dutch.) Groenten en Fruit 3: 546. Apr. 8, 1948. 80 G89
- 8891 HENDRICKSON, A. H., and VEIHMAYER, F. J. Sizes of prunes as influenced by differences in set and irrigation treatment. Amer. Soc. Hort. Sci. Proc. 51: 235-238. June 1948. 81 So12
- 8892 JOHANSSON, E. Apple pruning experiments at Alnarp. (In Swedish.) Sveriges Pomol. För. Fruktd-laren 1948: 11-12. 86 Sv2F
- 8893 JOHNSTON, S. Peaches - new practices and varieties. Kans. State Hort. Soc. Bien. Rpt. 49: 68-72. 1948. 81 K13
- 8894 LINDEN, L. VAN DER. Spraying with growth substances to prevent late drop of peaches. (In Flemish.) Tuinbouwberichten 12: 158. Oct. 15, 1948. 80 T817
- 8895 LUNDIN, Y. Selection of fruit trees. (In Swedish.) Trädgårdstidningen 20(5/6): 8-9, 32-33. Mar. 1948. 80 T67
- 8896 LUNDIN, Y. Sweep clean in front of the doors. (In Swedish.) Sveriges Pomol. För. Fruktd-laren 1948: 115-116. 86 Sv2F
- Fruit culture.
- 8897 MCCLINTOCK, J. A. An unprofitable strain of the Grimes apple. Amer. Soc. Hort. Sci. Proc. 51: 64-66. June 1948. 81 So12
- 8898 MCDANIEL, J. C. Golden Jubilee peach sports. Fruit Varieties & Hort. Digest 3: 93-94. Winter 1948. 80 F9469
- 8899 MACSELF, A. J. Peaches as trees and bushes. My Gard. 37: 391-396. Oct. 1948. 80 M995
- 8900 MARKUS, R. A new variety of peaches. (In Portuguese.) Lav. Arroz. 2(18): 21. June 1948. 59 L39
- Dixigem.
- 8901 MARTIN, L. R. E. Apples for limited space. Amateur Gard. 65(3359): 20. Sept. 28, 1948. 80 Am13
- 8902 MATTSSON, K. Fruit growing in Norrland. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 140-143. 86 Sv2
- 8903 MERKENS, W. Fruit culture in the environs of Geldermalsen. (In Dutch.) Groenten en Fruit 4: 221. Oct. 14, 1948. 80 G89
- 8904 MOS, D. DE. Ontario as greenhouse plum. (In Dutch.) Groenten en Fruit 3: 548. Apr. 8, 1948. 80 G89
- 8905 MURSELL, P. Pruning of apple trees. North. Gard. 2: 520-525. Oct. 1948. 80 N816
- 8906 NILSSON, F., and OLDEN, E. Selection of new clonal apple stocks. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 87-105. 86 Sv2
- English summary.
- 8907 NONKES, J. Impressions on fruit culture in Friesland. (In Dutch.) Groenten en Fruit 3: 483. Mar. 11, 1948. 80 G89
- 8908 OLIVIER, L. Culture of peaches in the low veld. (In Afrikaans.) Landbouweekblad 30(1526): 31-32. Oct. 13, 1948. 24 L232
- 8909 PICKETT, J. Spreads the peach season. Calif. Farmer, South. Ed. 189: 338. Oct. 23, 1948. 6 C126A
- Breeding early and late varieties.
- 8910 RANDHAWA, G. S., and UPSHALL, W. H. Scion rooting in dwarf pear trees. Amer. Soc. Hort. Sci. Proc. 51: 129-131. June 1948. 81 So12
- 8911 REBOUR, H. La pêche Prince Albert. Rev. Agr. de l'Afrique du Nord 45: 506. Oct. 24, 1947. 80 R326
- 8912 REIMER, C. Growing fruit trees during the war. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 27-47. 86 Sv2
- 8913 RIETSEMA, I. Peach assortment. (In Dutch.) Groenten en Fruit 3: 503, 532. Mar. 18, Apr. 1, 1948. 80 G89
- 8914 ROBIN, F. La culture du poirier en buisson. Cong. Pomol. de France. Sess. 78: 79-86. 1947. 93.09 C7643
- 8915 ROSAND, J. Le pommier et ses porte-greffes. Réveil Agr. 57: 310. Oct. 15, 1948. 14 R322
- 8916 SALONIUS, A. L. Investigations concerning progeny of the triploid pear variety Count Moltke. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 106-115. Ref. 86 Sv2
- English summary.
- 8917 SERR, E. F., and PARKS, R. R. The use of mechanical pruning equipment; the mechanical harvesting of prunes. Sunsweet Standard 32(6): 7. Nov. 1948. 286.83 Su7
- 8918 SCHMIDT, M. Die kirschpflaume, ein anspruchsloser massenträger. Unser Wegweiser im Obstbau, Gart., Kleintierhof 3: 95-96. Aug. 1948. 18 Un7
- 8919 SHEWELL-COOPER, W. E. Conservative—or do you like a change? Smallholder 80(2013): 13. Oct. 29, 1948. 10 Sm1
- Apple varieties.
- 8920 SHEWELL-COOPER, W. E. Investing in pears; planting, pruning and cultivation for good results. Field 192: 555. Nov. 13, 1948. 10 F45
- 8921 SHEWELL-COOPER, W. E. Let's make a start on apple pruning. Smallholder 80(2015): 13. Nov. 12, 1948. 10 Sm1
- 8922 SHEWELL-COOPER, W. E. Pruning peaches and nectarines. Smallholder 80(2014): 13. Nov. 5, 1948. 10 Sm1
- 8923 SIAENS, F. Multiplication of quince parent stock. (In Flemish.) Cult. en Handel 14: 162-163. Mar. 1948. 80 C892
- 8924 SNYDER, J. C. How to prune mature [apple] trees. Better Fruit 43(6): 14, 24-25. Dec. 1948. 80 B46
- 8925 SOUTHWICK, F. W., HOFFMAN, M. B., and EDGERTON, L. J. Further experiences with the chemical thinning of apples and peaches. Amer. Soc. Hort. Sci. Proc. 51: 41-47. June 1948. 81 So12
- 8926 STAHEL, M. Zum kirschbaumschnitt. Schweiz. Z. f. Obst- u. Weinbau 57: 404-405. Nov. 6, 1948. 80 Sch9
- 8927 SWINGLE, C. F. Cherry rootstocks. Wis. Hort. 39: 38, 43, 68-69. Oct.-Nov. 1948. 80 W752
- 8928 SWINGLE, C. F. The Door County apple crop: irrigated trees produce largest fruit. Wis. Hort. 39: 67. Nov. 1948. 80 W752
- 8929 TARRAGÓ, E. El cultivo comercial del duraznero. Corp. Frutícola Argentina. Rev. Gremial 14 (163): 23-26. July 31, 1948. 83 C81
- 8930 TAYLOR, H. V. Modern methods of apple production. Farming [Norwich] 2: 343-346. Nov. 1948. 10 F2236
- 8931 UPSHALL, W. H. Malling stocks and French crab seedlings as stocks for five varieties of apples. IV. Sci. Agr. 28: 454-460. Oct. 1948. 7 Sc12
- 8932 VERBELEN, V. La culture des prunes. Rev. de l'Agr. 1: 490-491. June 1948. 13 R322
- 8933 VERBELEN, V. La culture du pêcher dans la région de Gelrode-Wezemaal. Rev. de l'Agr. 1: 487-489. June 1948. 13 R322
- 8934 VIK, L. B. Bigger crop—cheaper fruit. (In Norwegian.) Norsk Hagetidend 64: 31-34. Feb. 1, 1948. 80 N81
- Culture.
- 8935 WASHINGTON. STATE COLLEGE. EXTENSION SERV. Do's and don'ts for Delicious apples. Wash. State Col. Ext. C. 124, 7 p. Sept. 1948. 275.29 W27C

## Fruits--Small

- 8936 AUWERA, G. VAN DER. Strawberry culture. (In Flemish.) Tuinbouwberichten 12: 43-44. Mar. 15, 1948. 80 T817
- 8937 BADELL, ROIG, L. El porta-injerto en la replantación de viñedos. Cám. Ofic. Sind. Agr. de Barcelona. B. 3: 30-31. Feb. 1948. 15 C14
- 8938 BARTON, G. Aspects of grape culture. Fruit-Grower 106: 607-608. Nov. 11, 1948. 80 F941
- 8939 BASTELEUS, R. Some things worth knowing about the "Frankenthal." (In Flemish.) Cult. en Handel 14: 637-639. Oct. 1948. 80 C892
- Grape culture.
- 8940 BÉLIARD, J. L'affinité greffon-porte-greffe. Terre d'Oc 29: 451-453. Nov. 1947. 14 Ar5
- Grapes.
- 8941 BLIN, H. Culture hâtée du fraisier en plein air. Rustica 20: 20. Jan. 12, 1947. 14 R92



- 8942 BONNET, A. Un cépage méritant mal connu: l'Aubun. Prog. Agr. et Vitic. 1948: 203-208. Oct. 17/24, 1948. 14 P94
- 8943 BONVIN, F. Le premier congrès de l'origine. Bourgignon Vitic. 44: 4. July 1948. 95.8 B66
- 8944 BRUNI, B. The Sangiovese [grape], its synonyms and variations in Tuscany, Umbria, the Marches, and Romagna. (In Italian.) Gior. di Agr. 58: 302. Oct. 31, 1948. 16 It1G
- 8945 CASTELEIN, S. J. Strawberry culture in cold-frames in Roelofarendsveen. (In Dutch.) Groenten en Fruit 3: 473, 488-489. Mar. 4-11, 1948. 80 G89
- 8946 CHAPPAZ, G. La maturation du raisin: son influence sur la valeur des vins. Réveil Agr. 57: 259-260. Sept. 1, 1948. 14 R322
- 8947 CHAPPAZ, G. Un porte-greffe dont on parle beaucoup: le 161-49. Réveil Agr. 57: 308. Oct. 15, 1948. 14 R322
- A grape variety.
- 8948 CHRISTIANSEN, E. On strawberries. (In Danish.) Gart. Tid. 64: 139-140. Mar. 17, 1948. 80 G192
- 8949 COPLEY, G. H. Outdoor grapes in Britain. Fruit-Grower 106: 613. Nov. 11, 1948. 80 F941
- 8950 DALMASSO, G. Don't be in a hurry! (In Italian.) Gior. di Agr. 58: 259. Sept. 26, 1948. 16 It1G
- Effect of weather on the composition of grapes.
- 8951 DALMASSO, G. Is the green pruning of grapes a practice to be abolished? (In Italian.) Gior. di Agr. 58: 302. Oct. 31, 1948. 16 It1G
- 8952 DARROW, G. M., and WALDO, G. F. Raspberry culture. U. S. D. A. Farmers' B. 887, rev., 38 p. Sept. 1948. 1 Ag84F
- 8953 ELLENWOOD, C. W. Fall-ripening strawberries. Ohio Farmer 202(9): 16-17. Nov. 6, 1948. 6 Oh3
- Culture.
- 8954 FONSECA, M. M. DA. Ecology of grape vines. (In Portuguese.) Agronomia [Rio de Janeiro] 7: 112-113. Apr./June 1948. 9.2 Ag892
- 8955 FRANCE. SERVICE DE LA PROTECTION DES VEGETAUX. SECTION DE SELECTION ET DE CONTROLE DE BOIS ET PLANTS DE VIGNES. Report 4, 1947. Montpellier, 1948. 32 p. 95.9 F84
- 8956 FRY, B. O., and MURPHY, M. M. Muscadine grapes in Georgia. Fruit Varieties & Hort. Digest 3: 99-101. Winter 1948. 80 F9469
- 8957 FRY, B. O., and MURPHY, M. M. Planting and care of the young Muscadine grape vineyard. Ga. Agr. Expt. Sta. Press B. 603, 2 p. Nov. 1, 1948. 100 G29P
- 8958 GAMBUS, H. Rapport sur la résistance des hybrides dans la Drôme (1948). Réveil Agr. 57: 258-259. Sept. 1, 1948. 14 R322
- Grapes.
- 8959 GIRARDI. Rebenselektion und rebenvermehrung auf irrwegen. Gart.-Z. Illus. Flora 71: 148. Oct. 1948. 80 G1991
- 8960 GRAMOLINI, M. Advice for new grape plantings: the maple, a living support. (In Italian.) Gior. di Agr. 57: 63. Mar. 16, 1947. 16 It1G
- 8961 GRIGGS, W. H., and ROLLINS, H. A. Effect of soil management on yields, growth, and moisture and ascorbic acid content of the fruit of cultivated blueberries. Amer. Soc. Hort. Sci. Proc. 51: 304-308. Ref. June 1948. 81 So12
- 8962 GRIMUT, V. Green grafting. (In Russian.) Vinodel. i Vinograd. SSSR. 8(4): 36-37. Apr. 1948. 95.8 V77
- Grape propagation.
- 8963 HALLIDAY, H. E. Strawberry observations. Wis. Hort. 39: 75. Nov. 1948. 80 W752
- 8964 HAVERGAL, B. Concentrate on one strawberry. (Sum.) Grower 30(18): 745. Oct. 30, 1948. 286.83 M34
- 8965 HOCHBERG, N. On wine grapes. (In Hebrew.) Hassadeh 28: 515-517. Sept. 1948. 26 H27
- 8966 HOFFMAN, M. B. Strawberry culture. N. Y. Agr. Col. Cornell Ext. B. 404, rev., 39 p. Sept. 1948. 275.29 N48E
- 8967 HOLEC, E. Pflanzt maulbeerplantagen. Osterr. Kleintierzüchter 1948: 458. Oct. 1948. 49 Os7
- 8968 HOLEC, E. Schnitt und pflege verwildeter maulbeerbestände. Osterr. Kleintierzüchter 1948: 474-475. Nov. 1948. 49 Os7
- 8969 JOHANSSON, E. Mitra and Miranda—two new Swedish raspberry varieties. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 131-139. 86 Sv2
- English summary.
- 8970 KIRILLOV, F. F. Grape culture in the central and north-eastern regions of R.S.F.S.R. (In Russian.) Vinodel. i Vinograd. SSSR. 8(4): 26-31. Apr. 1948. 95.8 V77
- 8971 KLEIN, K. Die johannisbeere und ihre kultur. Kärntner Bauer 98: 254-255. Aug. 1, 1948. 19 K14
- 8972 KOMAROVA, E. S. New grape varieties in the Ukraine. (In Russian.) Vinodel. i Vinograd. SSSR. 8(4): 24-25. Apr. 1948. 95.8 V77
- 8973 LARREA, A. La poda de la vid. Murcia. Spain. Cám. Ofic. Agr. B. 71/72: 5. (Cont.) Sept./Oct. 1948. 16 M93
- 8974 LARUE, P. Sur le greffage de la vigne. Arbres et Fruits 31: 28-29. Sept. 1948. 80 Ar1
- 8975 LATTINGER, A. E. Wir setzen in unseren gärten stachelbeeren. Gart.-Z. Illus. Flora 71: 154-155. Oct. 1948. 80 G1991
- 8976 LEE, F. E. A lot of shortcake. Mich. Farmer 210: 329. Nov. 20, 1948. 6 M58
- Strawberry culture.
- 8977 LILJEBLAD, A. Berry culture in Norrland. (Sum.) (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 144-147. 86 Sv2
- 8978 LJONES, B. Can you help me with some garden berries? (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1948: 3-5. 86 N81
- Plants.
- 8979 LLOBREGAT, E. El cultivo de la viña, tierras propias para ello. Vinos, Viñas y Frutas 44: 107-108. (To be cont.) Aug. 1948. 9 Ag89
- 8980 LONGO, A. Dormant pruning [of grapes]. (In Italian.) Gior. di Agr. 57: 33. Feb. 9, 1947. 16 It1G
- 8981 MANTELET, C. Le vignoble des Riceys (Aube). B. des Engrais 20: 423-425. Sept. 1948. 57.8 B87
- 8982 MARESCALCHI, A. The celebrated vineyards of Reno. (In Italian.) Ital. Vinic. ed Agr. 38: 125-126. June 15, 1948. 95.8 It1
- 8983 MARESCALCHI, A. Growing table grapes. (In Italian.) Ital. Vinic. ed Agr. 38: 222. Oct. 15, 1948. 95.8 It1
- 8984 MARTIN, K. Ausweitung des erdbeerenbaues ratsam! Unser Wegweiser im Obstbau, Gart., Kleintierhof 3: 90-91. Aug. 1948. 18 Un7
- 8985 MISHURENKO, A. G. Improved method of grafting grape vine. (In Russian.) Vinodel. i Vinograd. SSSR. 8(4): 33-35. Apr. 1948. 95.8 V77
- 8986 MONTICELLI, F. Grafts and the loss of grapes in flowering. (In Italian.) Coltivatore e Gior. Vinic. Ital. 83: 146-147. Aug. 15/31, 1948. 16 C72
- 8987 NILSSON, A. Currants and gooseberries as ornamentals. (In Swedish.) Sveriges Pomol. För. Fruktdlaren 1948: 117-118. 86 Sv2F
- 8988 NONKES, J. Top grafting of grapes. (In Dutch.) Groenten en Fruit 3: 472-473. Mar. 4, 1948. 80 G89
- 8989 OLDHAM, C. H. The new strawberry bed. Amateur Gard. 65(3355): 13. Aug. 31, 1948. 80 Am13
- 8990 OLDHAM, C. H. The propagation of bush fruits. Amateur Gard. 65(3364): 16. Nov. 2, 1948. 80 Am13
- 8991 OVERCASH, J. P. Raspberry variety adapted to State conditions sought. Miss. Farm Res. [Miss. Sta.] 11(11): 1, 7. Nov. 1948. 100 M69M
- 8992 PEDERSEN, A. Osmola and other black currant varieties. (In Danish.) Gart. Tid. 64: 558-559. Nov. 17, 1948. 80 G192
- 8993 PEYER, E. Eigenschaften der Blauburgunder-rebe. Schweiz. Z. f. Obst- u. Weinbat 57: 393-397. Nov. 6, 1948. 80 Sch9
- 8994 PEYER, E. Nach dem herbst. Schweiz. Z. f. Obst- u. Weinbau 57: 385-388. Oct. 23, 1948. 80 Sch9
- Grape varieties.
- 8995 RIVEROS, J. E. Viticultura: responsabilidad de las autoridades. Vinos, Viñas y Frutas 44: 146-148, 151. Sept. 1948. 9 Ag89
- Argentina.
- 8996 RODRIGUES, A. De l'application des procédés biométriques pour la détermination des caractères des cépages portugais de Vitis vinifera L. Off. Internatl. du Vin. B. 21(203): 82-92. Ref. Jan. 1948. 390.8 B87



- 8997 SHAULIS, N., and OBERLE, G. D. Some effects of pruning severity and training on Fredonia and Concord grapes. *Amer. Soc. Hort. Sci. Proc.* 51: 263-270. June 1948. 81 So12
- 8998 SKUIN', K. P. Grape culture under glass. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok.* 7: 126-130. 1948. 20 M857
- 8999 SLATE, G. L. Breeding autumn-fruited raspberries: third report. *Amer. Soc. Hort. Sci. Proc.* 51: 301-303. June 1948. 81 So12
- 9000 SNYDER, E., and HARMON, F. N. Comparative value of nine rootstocks for ten vinifera grape varieties. *Amer. Soc. Hort. Sci. Proc.* 51: 287-294. June 1948. 81 So12
- 9001 SQUADRONI, G. The vine: old plant to raise with new views. (In Italian.) *Gior. di Agr.* 58: 318. Nov. 14, 1948. 16 It1G
- 9002 STATUTI, M. How to tie up vine in vineyards. (In Italian.) *Campagnolo* 1948(2): 5. Feb. 1, 1948. 16 C15
- 9003 STATUTI, M. Think early of the new vineyards. (In Italian.) *Campagnolo* 1948(8): 5. Aug. 1, 1948. 16 C15
- Italy.
- 9004 THERON, C. J. Winter pruning and trellising of vines. *Union So. Africa. Dept. Agr. B.* 249, 25 p. 1948. 24 So84P
- 9005 THYGESEN, T. B. Loganberries. (In Danish.) *Gart. Tid.* 64: 86-87. Feb. 18, 1948. 80 G192
- 9006 VAILE, J. E. New developments and possibilities in small fruit culture. *Kans. State Hort. Soc. Bien. Rpt.* 49: 27-32. 1948. 81 K13
- 9007 VYZHIGINA, A. P. Viticulture in Saratov Region. (In Russian.) *Vinodel. i Vinograd. SSSR.* 8(4): 32-33. Apr. 1948. 95.8 V77
- 9008 WINTER, J. D. Raspberries need covering in Minnesota. *Wis. Hort.* 39: 75. Nov. 1948. 80 W752

## Nuts

- 9009 AMIZET, L. La grande pitié de l'amanderaie française. *Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc.* 18: 340-341. Nov. 1948. 80 F9482
- 9010 CARNEVALE, J. A. Arboles de frutos secos. III. El avellano. *Pampa Argentina* 22(254): 10-11. Oct. 1948. 9 P19
- 9011 CROSS, F. B. Pecan production in Kansas. *Kans. State Hort. Soc. Bien. Rpt.* 49: 63-68. 1948. 81 K13
- 9012 ENZIE, J. V. Pecans in New Mexico. *Fruit Varieties & Hort. Digest* 3: 95-97. Winter 1948. 80 F9469
- 9013 GLENN, E. M. Selecting better walnuts. *Gard. Illus.* 65: 214. Nov. 1948. 80 G169
- 9014 GRAS, F. H. LE. The walnut. *Juglans regia.* (In Dutch.) *Floralia* 67: 218-219. July 17, 1947. 80 F6613
- 9015 HUNTER, J. H. Pecan nutrition. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 123. 1948. 4 C82
- 9016 PRICE, C. W., JR. Pecans must have cultivation. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(12): 26. Dec. 1948. 6 So81
- 9017 SALOM, J. Las olas de frío y las flores de almendro. *Cám. Ofic. Sind. Agr. de Barcelona. B.* 3: 85-87. Apr. 1948. 15 C14
- 9018 SMITH, C. L., HAMILTON, J., and ROMBERG, L. D. Specific gravity and percentage of kernel as criteria of filling of pecan nuts. *Amer. Soc. Hort. Sci. Proc.* 51: 157-170. June 1948. 81 So12
- 9019 SOUZA, A. H. DE. The Brazil nut. (In Portuguese.) *Chacaras e Quintais* 78: 446-449. Ref. Oct. 15, 1948. 9.2 C34

## Shade Trees and Ornamental Plants

- 9020 ABBOTT, S. W. Parkways—past, present, and future. *Parks & Recreation* 31: 681-691. Dec. 1948. 98.8 P23
- 9021 ADAMSON, W. F. Propagation of orchids from seed. *Austral. Orchid Rev.* 13: 58. Sept. 1948. 80 Au73
- 9022 AGLIANY, J. Les primevères dans l'ornementation florale des jardins de la Côte d'Azur. *B. Hort.* (n. s.) 3: 266-267. Sept. 1, 1948. 80 B873
- 9023 ALDERSON, J. J. Building a fernery. *New Zeal. Homes & Gard.* 18(3): 15. June 1948. 80 N4823
- 9024 ALDERSON, J. J. Wattles for the garden. *New Zeal. Homes & Gard.* 18: 16. Apr. 1948. 80 N4823

- 9025 ALLISON, H. D. Ramblings from Canada. *New Zeal. Gladiolus Ann. & Ybk.* 3: 62, 64, 66, 68, 70. 1948. 96.43 N48
- 9026 ALPINE GARDEN SOCIETY. *Alpine Garden Society Library.* Linton, 1948. 14 p. 241.75 A17
- 9027 AMERICAN CAMELLIA SOCIETY. *American Camellia yearbook, 1948.* Gainesville, Fla., 1948. 225 p. 97.31 Am32
- 9028 AMES, O. Orchids in retrospect, a collection of essays on the Orchidaceae. Cambridge, Bot. Mus. of Harvard Univ., 1948. 172 p. 96.2 Am32
- Includes list of his publications.
- 9029 AMSLER, M. The charm of Camellias. *Amer. Camellia Ybk.* 1948: 1-17. 97.31 Am32
- 9030 ANDERSON, A. W. The romance of the red manuka [*Leptospermum scoparium*]. *Gard. Chron. Amer.* 52: 292-293. Nov. 1948. 80 G1632
- 9031 ANDERSON, S. C. Whither the Gladiolus of New Zealand. *New Zeal. Gladiolus Ann. & Ybk.* 3: 21-24. 96.43 N48
- 9032 ARNOLD, R. E. *Cypripedium curtisii.* *Orchid Rev.* 56: 168-170. Nov. 1948. 80 Or15
- 9033 ARNOLD-FORSTER, W. Camellias, new and old. *My Gard.* 37: 453-465. Nov. 1948. 80 M995
- 9034 ASKWITH, W. E. Has New Zealand progressed? *New Zeal. Gladiolus Ann. & Ybk.* 3: 26-27. 1948. 96.43 N48
- 9035 ASPESAETER, O. On hedges and their care. (In Norwegian.) *Norsk Hageselskap. Minneliste for Hagedyrkere* 1948: 16-19. 86 N81
- 9036 AUWERA, G. VAN DER. The floralia at Liège. (In Flemish.) *Tuinbouwberichten* 12: 160-161. Oct. 15, 1948. 80 T817
- 9037 BAKER, MRS. J. S. Deciduous but distinctive. *Gard. Club Amer. B. (ser. 11)* 11: 18-20. Nov. 1948. 90.32 G16
- Shrubs.
- 9038 BARBER, R. W. The Rhode Island Gladiolus Society Trial Garden—1948. *North Amer. Council B.* 16: 49. Dec. 1948. 96.43 N81
- 9039 BARTON, G. Growing Freesias for the market. *Grower* 30: 565. Oct. 9, 1948. 286.83 M34
- 9040 BARTON, L. V. Storage of seeds of the Regal lily. *Boyce Thompson Inst. Prof. Paper* 2: 45-47. Aug. 1948. 451 B69P
- 9041 BARTRUM, D. A woodland garden. *My Gard.* 37: 505-508. Nov. 1948. 80 M995
- 9042 BASTELEUS, R. Hommage à la somptuosité des Chrysanthèmes. *B. Hort. (n. s.)* 3: 270-272. Sept. 1, 1948. 80 B873
- 9043 BAZDORF, A. Notes from an American semi-pro. *New Zeal. Gladiolus Ann. & Ybk.* 3: 56, 58, 60. 1948. 96.43 N48
- 9044 BEECK, A. OP DE. Généralités sur la culture du rosier. *Courrier Hort.* 10: 538-540. Sept. 1948. 80 C834
- 9045 BELLAH, L. Laperies—portable rock gardens. *Northwest Gard. & Homes* 16(8): 8-9. Oct. 1948. 80 N813
- 9046 BEMBOWER, W. Hibiscus varieties. *Hawaii Farm & Home* 11(10): 69, 70. Nov. 1948. 25 H3191
- 9047 BENGTTSSON-HELLGREN, A. Bulbs and lilies in flower pots. (In Swedish.) *Trädgårdstidningen* 20: 5-7, 13-14. Jan. 1, 1948. 80 T67
- 9048 BENGTTSSON-HELLGREN, A. Common sunflower, hollyhock, common fox glove and cosmos. (In Swedish.) *Trädgårdstidningen* 20(7/8): 22-23. Apr. 1948. 80 T67
- 9049 BENGTTSSON-HELLGREN, A. A patient foliaceous plant trio. (In Swedish.) *Trädgårdstidningen* 20(5/6): 22. Mar. 1948. 80 T67
- House plants.
- 9050 BIFFEN, W. Hedges: a good investment. *Smallholder* 80(2015): 21. Nov. 12, 1948. 10 Sml
- 9051 BILLE, O. Fall blooming in the rock garden. (In Norwegian.) *Norsk Hagetidend* 64: 22-26. Feb. 1, 1948. 80 N81
- 9052 BILLE, O. Seed-propagation of perennials. (In Norwegian.) *Norsk Hagetidend* 64: 70-73. Apr. 1/15, 1948. 80 N81
- 9053 BILLE, O. Tulips, narcissus and summer-flowers. (In Norwegian.) *Norsk Hagetidend* 64: 178-180. Oct. 1/15, 1948. 80 N81
- 9054 BLACK, P. M. Growing Cymbidiums and Cypripediums in England. *Orchid Rev.* 56: 170. Nov. 1948. 80 Or15



- 9055 BLACKBURN, B. Plant for permanence, finetooth holly [*Ilex serrata*]. Flower Grower 35: 888-890. Dec. 1948. 80 M72
- 9056 BLACKMON, G. H. Flower culture advanced by extensive research in Florida. South. Florist & Nurseryman 61(38): 9-10, 60-63. Dec. 17, 1948. 80 So86
- 9057 BLIN, H. Réservons dans nos jardins un coin pour les plantes aquatiques décoratives. Acclimatation 75: 186. Sept. 4, 1948. 14 Ac2
- 9058 BLOMKVIST, J. Remodeling a garden. (In Swedish.) Trädgårdstidningen 20(5/6): 14-15, 34. Mar. 1948. 80 T67
- 9059 BODORFF, U. Flower arrangements easily taken care of. (In Swedish.) Trädgårdstidningen 20(5/6): 18-19. Mar. 1948. 80 T67
- 9060 BONNER, J. Experiments on the flowering of Camellias. Amer. Camellia Ybk. 1948: 75-82. 97.31 Am32
- 9061 BRECHT, P. Orchid seedlings from flask to mature plants. Orchid Digest 12: 228-229. Sept./Oct. 1948. 80 Or172
- 9062 BRINK, V. Muscari for spring color. Gard. Chron. Amer. 52: 293, 301-302. Nov. 1948. 80 G1632
- 9063 BROSIO, A. La poda y abono de los rosales. Rev. de Agr., Com. e Indus. [Panama] 7(83): 30-31. July 1948. 8 R3291
- 9064 BROWN, A. E. Rock garden construction. Your Gard. & Home 2(11): 10, 24. Nov. 1948. 80 Y8
- 9065 BURNE, W. R. Some notes on early flowering Chrysanthemums. III-IV. North. Gard. 2: 499-500, 526-529. Sept.-Oct. 1948. 80 N816
- 9066 BURTON, G. W. Centipede lawns are easy keepers. South. Seedsman (11 i.e. 12): 13, 32, 36. Dec. 1948. 61.8 So8
- 9067 CALDWELL, S. Y. Amaryllis family album. Flower Grower 35: 900-901, 919-920. Dec. 1948. 80 M72
- 9068 CARLSSON, A. With shears and saw in the garden. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1948: 20-22. 86 Sv2F  
Pruning shrubs.
- 9069 CARSON, C. M. Simple rules to put green on your thumb. Sun-up 3(5): 21. Winter 1948. 80 Su7
- 9070 CASTBERG, K. S. Green plants. (In Norwegian.) Norsk Hagetidend 64: 28-30. Feb. 1, 1948. 80 N81
- 9071 CHAPPLE, F. J. Escallonias in a windswept garden. Gard. Illus. 65: 228-229. Dec. 1948. 80 G169
- 9072 CHEVALIER, C. Pour avoir de belles pelouses. B. Hort. (n. s.) 3: 238-239, 244. Aug. 1, 1948. 80 B873
- 9073 CHIDAMIAN, C. Camellia oddities. II. Home Gard. So. 8: 286. Dec. 1948. 80 H755
- 9074 COLEMAN, C. F. Miniature daffodils. Gard. Illus. 65: 206-207. Nov. 1948. 80 G169
- 9075 CONRADI, R. R. After the frost. (In Norwegian.) Norsk Hagetidend 64: 182. Oct. 1/15, 1948. 80 N81
- 9076 COOK, L. Perpetual carnations in winter. Amateur Gard. 65(3364): 13. Nov. 2, 1948. 80 Am13
- 9077 COOK, M. H. Recipes for Christmas decorations. Flower Grower 35: 896-899. Dec. 1948. 80 M72
- 9078 COOK, M. L. Chinese fleece vine [*Polygonum auberti*]. Back Eden 15(2): 8-9. Oct. 1948. 80 B12
- 9079 COOK, M. L. Sassafra. Back Eden 15(2): 3. Oct. 1948. 80 B12
- 9080 COON, N. Double value from your plantings. Gard. Chron. Amer. 52: 316, 332. Dec. 1948. 80 G1632  
Trees and shrubs with edible possibilities.
- 9081 COPLEY, G. H. Autumn-sown sweet peas. Nurseryman & Seedsman 107: 1294-1295. Oct. 28, 1948. 80 N933
- 9082 COPLEY, G. H. Chrysanthemum lifting. Fruit, Flower & Veg. Trades' J. 94: 379. Sept. 18, 1948. 80 F946
- 9083 COTTEN, O. McComb, the Camellia city, and its locally named Camellias. Amer. Camellia Ybk. 1948: 48-51. 97.31 Am32
- 9084 CRANDALL, MRS. T. W. Cymbidium notes. Golden Gard. 13: 15. Oct. 1948. 80 G56
- 9085 CRUISE, M. Gather your own Christmas decorations. Gard. Chron. Amer. 52: 318-319. Dec. 1948. 80 G1632
- 9086 CSIZIK, A. Classification of Dahlia according to the Dutch system. (In Dutch.) Tuinbouw 3: 261-265. Oct. 1948. 80 T815
- 9087 CUMMINGS, M. B. Take note of this old garden favorite [*Dictamnus*]. Flower Grower 35: 903, 921-922. Dec. 1948. 80 M72
- 9088 DAETWYLER, M. J. History of Camellias in central Florida. Amer. Camellia Ybk. 1948: 72-74. 97.31 Am32
- 9089 DAKERS, J. S. Freesias in springtime. Amateur Gard. 65(3355): 10. Aug. 31, 1948. 80 Am13
- 9090 DANELUK, J. P. 200 acres of flowers. Internatl. Harvester World 39(9): 14-16. Sept. 1948. 58.8 H26  
Peonies in the Ozarks.
- 9091 DANIEL, B. H. Flowers and weeds. New Zeal. Homes & Gard. 18(4): 11-13. July 1948. 80 N4823  
Flower arrangements.
- 9092 DAUGHADY, MRS. C. C. Growing Delphinium from seed. Gard. Club Amer. B. (ser. 11): 61-63. Nov. 1948. 90.32 G16
- 9093 DAVIES, J. L. M. Concerning Alliums. Guild Gard. 23(10): 2. Oct. 1948. 80 G94
- 9094 DAVIS, R. S. Notes from the Philippines. Orchid Digest 12: 218, 221. Sept./Oct. 1948. 80 Or172
- 9095 DIBBLE, G. G. One world in the garden. Amer. Home 41: 27-29. Dec. 1948. 80 Am313
- 9096 DORST, J. C. Importance of the grower resolution in favor of plant breeding and seed supply. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 60: 393-400. Sept. 1948. 105.2 Or3
- 9097 DORT, H. W. V. Forcing our bulbous plants. (In Dutch.) Bloemisterij 22(41): 2; (42): 1-2. Oct. 8-15, 1948. 80 B624
- 9098 DORT, H. W. V. Making cuttings of American carnations and overwintering them. (In Dutch.) Bloemisterij 22(44): 1-2. Oct. 29, 1948. 80 B624
- 9099 DOUMONT, L., and VALEMBERG, M. Influence de la lumière sur la coloration du feuillage. Courrier Hort. 10: 545-546. Sept. 1948. 80 C834
- 9100 DRUMMOND, W. C. The year around with the Spathiphyllum. Begonian 15: 235. Oct. 1948. 96.511 B39
- 9101 DUDLEY, L. B. The national Dahlia honor roll. Flower Grower 35: 904-907, 925-927. Dec. 1948. 80 M72  
Eastern selections by L. B. Dudley; Mid-west selections by J. L. Roberts; Pacific Coast selections by R. T. Eddy.
- 9102 DUNCOMB, M. Propagation of Gloxinias. Back Eden 15: 10-11. (Concl.) Sept. 1948. 80 B12
- 9103 ELLIOTT, D. We planted trees—large number in a small garden. New Zeal. Gard. 5: 109-112, 125. Oct. 1, 1948. 80 N4822
- 9104 ELLIOTT, N. R. Native shrubs. Gard. Club Amer. B. (ser. 11): 90-91. Nov. 1948. 90.32 G16
- 9105 EMSWELLER, S. L. Breeding of ornamental plants. Amer. Soc. Hort. Sci. Proc. 51: 565-574. Ref. June 1948. 81 So12
- 9106 ENE DE PIRO, M. Une belle plante à fleurs: l'héliotrope. Réveil Agr. 57: 310-311. Oct. 15, 1948. 14 R322
- 9107 EVERETT, T. H. Plant portraits [*Hedychium*]. Gard. Chron. Amer. 52: 296, 309. Nov. 1948. 80 G1632
- 9108 EVERETT, T. H. Plant portraits [*Lobelia*]. Gard. Chron. Amer. 52: 324. Dec. 1948. 80 G1632
- 9109 EVISON, J. R. B. Colour harmony of autumn foliage. Amateur Gard. 65(3364): 15. Nov. 2, 1948. 80 Am13
- 9110 EVISON, J. R. B. Ensuring success with bulbs. Amateur Gard. 65(3359): 15. Sept. 28, 1948. 80 Am13
- 9111 EXLEY, MRS. F. M. Camellia culture simplified. Gard. Club Amer. B. (ser. 11): 56-59. Nov. 1948. 90.32 G16
- 9112 FAWCETT, J. M. The greater celandine. My Gard. 37: 501-504. Nov. 1948. 80 M995  
*Chelidonium majus*.
- 9113 FIGUEIREDO, R. DE. Flowers in the education of children. (In Portuguese.) Chacaras e Quintais 78: 323-324. Sept. 15, 1948. 9.2 C34
- 9114 FLOTO, E. V. Some of the newer house plants. (In Danish.) Haven 48: 151-154. Oct. 1948. 80 H29
- 9115 FORSBERG, F. M. Norfolk [Va.] counts its trees. Trees [Cleveland] 9: 18, 20, 26. Nov./Dec. 1948. 99.8 W52
- 9116 FOX, MRS. M. J. The aging garden. Gard. Club Amer. B. (ser. 11): 41-46. Nov. 1948. 90.32 G16



- 9117 FRIEDRIGER. Pfingstrosen. Gärt.-Kurier 3(18): 2. Sept. 15, 1948. 80 G1942
- 9118 FRIEDRIGER. Stauden für unsere friedhöfe. Gärt.-Kurier 2(17): 4. (Concl.) Sept. 1, 1948. 80 G1942
- 9119 FRIERSON, W. C. The best American hollies. Flower Grower 35: 909, 920. Dec. 1948. 80 M72
- 9120 GAARDER, P. I. Dahlia. (In Norwegian.) Norsk Hageselskap-Minneliste for Hagedyrkere 1948: 10-13. 86 N81
- 9121 GAMARRA CORTIJO, T. Cantú [Cantua buxifolia], la flor sagrada de los Incas. Pensamiento Peruano 7: 39-40. July/Aug. 1948. 110 P38
- 9122 GARDEN, M. Cultivating Lilliums. New Zeal. Homes & Gard. 17(12): 13-14. Mar. 1948. 80 N4823
- 9123 GARDEN, M. Flower beds that pay. New Zeal. Homes & Gard. 18(3): 14-15. June 1948. 80 N4823
- 9124 GARDEN, M. Grow the very best Chrysanthemums. New Zeal. Homes & Gard. 17(11): 15-16. Feb. 1948. 80 N4823
- 9125 GARDINER, L. A. Miscellaneous orchids. Austral. Orchid Rev. 13: 68. Sept. 1948. 80 Au73
- 9126 GATTEFOSSE, J. Le tapis floral horticole au Maroc. Soc. d'Hort. et d'Acclim. du Maroc. B. 33: 94-96. Third Quart. 1948. 87 So1
- 9127 GAYLORD, I. Making arrangements. Herb Grower Mag. 2: 82-84. Nov. 1948. 80 Am316
- Flower arrangements.
- 9128 GLASS, A. Logic in landscape composition. Gard. Gossip 23: 5-7. Nov. 1948. 80 G1625
- 9129 GORDON, E. R. The charm of gardens. My Gard. 37: 446-448. Nov. 1948. 80 M995
- 9130 GORGET, M. La plus belle rose de France 1948. B. des Engrais 20: 429-430. Sept. 1948. 57.8 B87
- 9131 GRAVES, G. Shrubs for the rock garden. Amer. Nurseryman 88(12): 12, 54-55. Dec. 15, 1948. 80 Am371
- 9132 GRAVES, G. Shrubs that renew each spring. Amer. Nurseryman 88(11): 12, 51-52. Dec. 1, 1948. 80 Am371
- 9133 GRAVES, G. Some narrow upright trees. Amer. Nurseryman 88(10): 14, 47-50. Nov. 15, 1948. 80 Am371
- 9134 GRAY, T. D. Get ready for seeding the fall lawn. W. Va. Gard. News 13: 18-19. Sept. 1, 1948. 90.32 W522
- 9135 GREEN, A. E. Building up a stock of Cacti. Nurseryman & Seedsman 107: 1456-1458. Nov. 11, 1948. 80 N933
- 9136 GREEN, A. E. Cacti sell on sight. Nurseryman & Seedsman 107: 1032-1034. Oct. 7, 1948. 80 N933
- 9137 GREENE, A. L. Trees on their mind. Amer. City 63(11): 108-109. Nov. 1948. 98.58 Am31
- Street planting.
- 9138 GREY, C. H. The Iris as a garden plant. North. Gard. 2: 493-496. Sept. 1948. 80 N816
- 9139 GREY, C. H. Spring bulbs. North. Gard. 2: 540-547. Nov. 1948. 80 N816
- 9140 GREY, C. H. Tulips in the garden. North. Gard. 2: 516-520. Oct. 1948. 80 N816
- 9141 GUYATT, R. H. Shrubs in the herbaceous border. Amateur Gard. 65(3359): 12. Sept. 28, 1948. 80 Am13
- 9142 HALL, G. J. Container-grown Camellias. Home Gard. So. 8: 274-275. Dec. 1948. 80 H755
- 9143 HALL, H. Some impressions and comparisons. Bot. Soc. So. Africa. J. 33: 15-18. 1947. 451 B657
- Cultivation of succulents.
- 9144 HAMBLIN, S. F. [Beardless Iris.] Lexington Leaflets 18: 41-44. Sept. 11, 1948. 80 L59
- 9145 HAMBLIN, S. F. [Iris hybrids.] Lexington Leaflets 18: 37-40. Aug. 28, 1948. 80 L59
- 9146 HAMBLIN, S. F. [New hybrids in perennial plants.] Lexington Leaflets 18: 33-36. Aug. 14, 1948. 80 L59
- 9147 HAMBLIN, S. F. New plants for old. Parks & Recreation 31: 725-728. Dec. 1948. 98.8 P23
- 9148 HAMBLIN, S. F. [Winter protection of perennial plants.] Lexington Leaflets 18: 45-46. Sept. 25, 1948. 80 L59
- 9149 HANGER, F. The exquisite Nerines. Amateur Gard. 65(3359): 16. Sept. 28, 1948. 80 Am13
- 9150 HANNAY, F. The colorful gardens of Bermuda. Gard. Chron. Amer. 52: 323, 331. Dec. 1948. 80 G1632
- 9151 HANSEN, W. F. Pruning of climbing plants. (In Danish.) Gart. Tid. 64: 165-168. Mar. 31, 1948. 80 G192
- 9152 HANSEN, W. F. Pruning of flower bushes. (In Danish.) Haven 48: 36-38. Mar. 1948. 80 H29
- 9153 HARDINESS of Camellias. Amer. Camellia Ybk. 1948: 129-143. 97.31 Am32
- Reports by F. F. Zieser, L. D. Pender, Jr., S. L. Marbury, F. S. Persons II, E. C. Hill, E. W. Haasis, R. J. Wilmot, and Mrs. G. H. Wilson.
- 9154 HARRIS, J. H. It's not a home until it's planted. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 115-117. 1948. 4 C82
- Beautifying the farm home grounds.
- 9155 HASTIE, C. N., JR. Magnolia gardens. Amer. Camellia Ybk. 1948: 52-58. 97.31 Am32
- 9156 HAYWARD, W. Lazy-man's lily [Crinum]. Sun-up 3(5): 14, 27. Winter 1948. 80 Su7
- 9157 HEIGHTON, H. The beech. Nature Lover 5: 371-374. Aug. 1948. 410 N218
- 9158 HENDERSON, M. The box hedge. My Gard. 37: 497-499. Nov. 1948. 80 M995
- 9159 HETHERINGTON, E. E. A promising Cattleya hybrid. Orchid Digest 12: 214. Sept./Oct. 1948. 80 Or172
- 9160 HETHERINGTON, E. E. Some notes on fall flowering white Cattleyas and Laeliocattleyas. Orchid Digest 12: 224-225. Sept./Oct. 1948. 80 Or172
- 9161 HEUTTE, F. Consider bulbs. Gard. Gossip 23(10): 8. Oct. 1948. 80 G1625
- 9162 HILLS, B. Dendrobiums for colour. Gard. Illus. 65: 231. Dec. 1948. 80 G169
- 9163 HOAK, C. M. Old favorites in the gardens of yesterday. Golden Gard. 13: 5, 13. Oct. 1948. 80 G56
- 9164 HOLLARD, B. Rhododendrons and native trees. New Zeal. Gard. 5: 91-93. Oct. 1, 1948. 80 N4822
- 9165 HOLTTUM, R. E. New orchid hybrids raised at Singapore. Orchid Rev. 56: 165-166. Nov. 1948. 80 Or15
- 9166 HOLWAY, C. P. The teasel—an interesting plant. Wis. Hort. 39: 87. Nov. 1948. 80 W752
- 9167 HUDSON, J. P. Garden culture of the Gladiolus. New Zeal. Gladiolus Ann. & Ybk. 3: 3-15, 17-21. 1948. 96.43 N48
- 9168 HUDSON, J. P. Plant breeding is a satisfying hobby for the flower gardener. New Zeal. J. Agr. 77: 203-205. Aug. 1948. 23 N48J
- 9169 HUDSON, J. P. Well-kept hedges give a finish to the garden. New Zeal. J. Agr. 77: 293-296. Sept. 1948. 23 N48J
- 9170 HUGHES, F. G. The Gladiolus in Western Australia. New Zeal. Gladiolus Ann. & Ybk. 3: 44-45. 1948. 96.43 N48
- 9171 HUME, H. H. Descriptions of varieties illustrated. Amer. Camellia Ybk. 1948: 82, 183. 97.31 Am32
- 9172 HURLEY, P. J. Australian rose growing for amateurs. Sydney, Dymock's Book Arcade, 1947. 136 p. 96.1 H93
- 9173 HUSTON, E., and ROLLINS, S. H. Midwinter berries on the Gulf Coast. Home Gard. So. 8: 280-281, 287. Dec. 1948. 80 H755
- 9174 HYATT, O. D. Rooting responses of several varieties of Camellia japonica. Amer. Camellia Ybk. 1948: 90-92. 97.31 Am32
- 9175 INGWERSEN, W. Autumn planting alpine. Amateur Gard. 65(3359): 14. Sept. 28, 1948. 80 Am13
- 9176 INGWERSEN, W. Building and planting a dry wall. Amateur Gard. 65(3364): 12. Nov. 2, 1948. 80 Am13
- 9177 INGWERSEN, W. Campanula portenschlagiana Birch hybrid. My Gard. 37: 375-376. Oct. 1948. 80 M995
- 9178 INGWERSEN, W. Miniature bulbs. My Gard. 37: 339-353. Oct. 1948. 80 M995
- 9179 INGWERSEN, W. Romuleas. My Gard. 37: 493-496. Nov. 1948. 80 M995
- 9180 JAMES, S. C. The Cypripedium. Austral. Orchid Rev. 13: 63-65. Sept. 1948. 80 Au73



- 9181 JOHANSSON, T. Breeding of lilacs. (In Swedish.) Trädgårdstidningen 20: 19-20. Jan. 15, 1948. 80 T67
- 9182 JOHANSSON, T. *Salix daphnoides* pommerancia. (In Swedish.) Trädgårdstidningen 20(5/6): 16. Mar. 1948. 80 T67
- 9183 JOHNSON, A. T. Late shrubs for small borders. Amateur Gard. 65(3358): 10. Sept. 21, 1948. 80 Am13
- 9184 JOHNSON, A. T. Ornamental fruiting shrubs. Amateur Gard. 65(3364): 14-15. Nov. 2, 1948. 80 Am13
- 9185 JOHNSON, G. Culture for bulb and bloom. New Zeal. Gladiolus Ann. & Ybk. 3: 38-39. 1948. 96.43 N48
- 9186 JOHNSON, S. C. The secret of quality sweet peas. Smallholder 80(2010): 10. Oct. 8, 1948. 10 Sml
- 9187 JONES, R. A ten-day visit with European orchid growers. Orchid Digest 12: 219-221. Sept./Oct. 1948. 80 Or172
- 9188 JONG, C. DE. Germanders. (In Dutch.) Floralia 67: 217. July 17, 1947. 80 F6613
- 9189 JONKHEER, P. N. Heating in transit. (In Dutch.) Weekbl. v. Bloembollencult. 59: 59-60, 82-84. Aug. 27, Sept. 17, 1948. 80 W412
- Bulbs.
- 9190 JOUGAN, E. Un beau lis rustique: le lis royal. Acclimatation 75: 221. Oct. 16, 1948. 14 Ac2
- Lilium regale.
- 9191 KAATMAN, H. W. Arrangement of flowers and plants. (In Dutch.) Floralia 67: 214. July 17, 1947. 80 F6613
- 9192 KAMMERER, E. L. A few conspicuous trees of autumn. Morton Arboretum. B. Pop. Inform. 23: 38-41. Oct. 1948. 99.9 M84
- 9193 KELLY, G. W. Low shrubs for Colorado landscaping. Green Thumb 5(10): 10-13. Oct. 1948. 80 G82
- 9194 KINGSCOTE, A. A. Winter gardens. Your Gard. & Home 2(12): 8, 22. Dec. 1948. 80 Y8
- 9195 KNOTZINGER, O. Rosen—selbst vermehrt. Nach der Arbeit 1948(16): 6. Aug. 3, 1948. 80 N11
- 9196 KROMDIJK, G. A beautiful ornamental foliage plant. *Curculigo recurvata*. (In Dutch.) Floralia 67: 217-218. July 17, 1947. 80 F6613
- 9197 KROMDIJK, G. Bleeding heart. *Clerodendron Balfourii*. (In Dutch.) Floralia 67: 214. July 17, 1947. 80 F6613
- 9198 KROMDIJK, G. Chenille copperleaf. *Acalypha hispida*. (In Dutch.) Floralia 67: 217. July 17, 1947. 80 F6613
- 9199 KROMDIJK, G. Culture of *Phyllocactus ackermannii*. (In Dutch.) Floralia 67: 220-221. July 17, 1947. 80 F6613
- 9200 KROOK, M. The home owner and the legal code. (In Swedish.) Trädgårdstidningen 20: 35-36. Feb. 1, 1948. 80 T67
- Landscape gardening.
- 9201 KUESTER, L. J. Growing Begonias in the home. Begonian 15: 232-234, 237. Oct. 1948. 96.511 B39
- 9202 KUPKA, H. Wohlriechende wicke, edel- oder spanische wicke. *Lathyrus odoratus*. Gärt.-Kurier 3(18): 3-4. Sept. 15, 1948. 80 G1942
- 9203 LAMBERT, N. New [sweet pea] varieties that have come to stay. Pop. Gard. 50: 289. Oct. 2, 1948. 80 G1622
- 9204 LAMBERT, N. Very reliable roses. Pop. Gard. 50: 338. Nov. 6, 1948. 86 G1622
- 9205 LAMMERTS, W. E. Progress report on Camellia breeding. Amer. Camellia Ybk. 1948: 83-88. 97.31 Am32
- 9206 LANGVAD, B. Seeding of summer flowers directly in flower beds. (In Swedish.) Trädgårdstidningen 20(7/8): 26-28, 31. Apr. 1948. 80 T67
- 9207 LATTING, E. T. Begonias I grow as house plants. Gard. Chron. Amer. 52: 303. Nov. 1948. 80 G1632
- 9208 LATTING, E. T. How to make house plants happy. Gard. Chron. Amer. 52: 322. Dec. 1948. 80 G1632
- 9209 LATTING, E. T. My winter flower garden. Flower Grower 35: 911, 921. Dec. 1948. 80 M72
- Houseplants.
- 9210 LAWRENCE, E. *Crinums*. N. C. Gard. 18: 21. Autumn 1948. 80 N817
- 9211 LAWRENCE, MRS. M. A. Fuchsias in the sun. Northwest Gard. & Homes 16(8): 6, 34. Oct. 1948. 80 N813
- 9212 LEATHERMAN, S. B. Seedlings of *Dichroa x Glaucophylla scandens*. Begonian 15: 229-230. Oct. 1948. 96.511 B39
- 9213 LESLIE, W. R. Rosybloom crabapples. Your Gard. & Home 2(12): 14, 25. Dec. 1948. 80 Y8
- 9214 LEWIS, C. E. The ever popular honeysuckle. Gard. Chron. Amer. 52: 290-291. Nov. 1948. 80 G1632
- 9215 LIBOWITZKY, A. Erfahrungen mit *Chrysanthemum indicum* als freilandstaude. Gart.-Z. Illus. Flora 71: 141-144. Oct. 1948. 80 G1991
- 9216 LINDHOLM, F. Tamarisk. (In Swedish.) Trädgårdstidningen 20(5/6): 17. Mar. 1948. 80 T67
- 9217 LINK, C. B. Hybrid tea and floribunda rose culture. Brooklyn Bot. Gard. Leaflets (n. s.) 4, 4 p. Mar. 8, 1948. 451 B79L
- 9218 LISITANO, N. Commercial production of flower bulbs in south Italy and Sicily. (In Italian.) Risveglio Agr. 7: 277-278. Aug. 15/31, 1948. 16 R49
- 9219 LORENZ, E. Are there any "rhrips" [Rhipsalis] in your plants? Begonian 15: 225-226. Oct. 1948. 96.511 B39
- 9220 LUEDY, A. E. "The Christ herbe" [Helleborus]. Herb Grower Mag. 2: 111-112. Dec. 1948. 80 Am316
- 9221 LUEDY, A. E., and LUEDY, M. V. The Christmas rose [*Helleborus niger altifolius*]. Bedford, Ohio, Luedy, 1948. 44 p. 96.5 L96
- 9222 LYNDON, R. Purple splendour—brilliance of the Tibouchinas. New Zeal. Gard. 5: 115, 139. Oct. 1, 1948. 80 N4822
- 9223 MCCLINTOCK, R. B. Trees in park development. Arborist's News 13(11): 96-100. Nov. 1948. 99.8 Ar14
- 9224 MCCULLY, A. Lilies from seed. Gard. Chron. Amer. 52: 320-321. Dec. 1948. 80 G1632
- 9225 MCFARLAND, J. H. Let roses bloom as they will in spring or fall. Horticulture 26: 451. Dec. 1948. 80 H787
- 9226 MACFIE, D. T. The orange lilies. Amateur Gard. 65(3358): 10. Sept. 21, 1948. 80 Am13
- 9227 MCMILLAN, MRS. R. L. Camellias in Raleigh, North Carolina. Amer. Camellia Ybk. 1948: 42-48. 97.31 Am32
- 9228 MCMINN, H. E. Five choice native shrubs for landscape use. Calif. Hort. Soc. J. 9: 178-184. Oct. 1948. 81 C1293
- 9229 MCMINN, H. E. The introduction of California native shrubs into horticulture during the past quarter century. Gard. Club Amer. B. (ser. 11) 11: 21-30. Ref. Nov. 1948. 90.32 G16
- 9230 MAHER, A. N. Carnation culture. Austral. Gard. Lover 24(7): 41. Oct. 1, 1948. 80 G1615
- 9231 MARNEFFE, R. DE. Le jardin fait partie des oeuvres d'art. II-III. B. Hort. (n. s.) 3: 240-241, 262-263. Aug. 1, Sept. 1, 1948. 80 B873
- 9232 MARNETTE, J. Les Amarylles. B. Hort. (n. s.) 3: 242-244. Aug. 1, 1948. 80 B873
- 9233 MARRIAGE, K. Church grounds. Green Thumb 5(9): 11-12. Sept. 1948. 80 G82
- 9234 MATTHEWS, B. The miniature Cyclamen, charm of dwarf species for the rock garden. New Zeal. Gard. 5: 116-118. Oct. 1, 1948. 80 N4822
- 9235 MATTOCKS, MRS. F. S. Tulip trends. Green Thumb 5(10): 24-25. Oct. 1948. 80 G82
- 9236 MATTOON, H. G. Twenty years study of the English holly [*Ilex aquifolium*]. Horticulture 26: 452, 465. Dec. 1948. 80 H787
- 9237 MATVEEV, G. N. Irises of the Caucasus and their use in ornamental gardening. (In Russian.) Priroda 37(8): 62-63. Ref. Aug. 1948. 410 P933
- 9238 MEACHEM, W. Growers' hints to retailers on care of Christmas plants. Florists Exch. 111(24): 19. Dec. 11, 1948. 80 F666
- 9239 MEHLQUIST, G. A. L. Fundamentals of flower growing. (Extracts.) Grower 30: 526-527. Oct. 2, 1948. 286.83 M34
- 9240 MILLING, C. J. Use of a collar in grafting. Amer. Camellia Ybk. 1948: 98-99. 97.31 Am32



- 9241 MONTAN, R. Isola Bella. (In Swedish.) Trädgårdstidningen 20(5/6): 10-11. Mar. 1948. 80 T67  
Description of garden in Italy.
- 9242 MOORE, J. G. Spring bulbs for the home grounds. Wis. Agr. Col. Ext. Stencil C. 192, rev., 10 p. Aug. 1948. 275.29 W75B
- 9243 MOORE, J. G. Storage of Dahlias. Wis. Hort. 39: 92. Nov. 1948. 80 W752
- 9244 MORET. Les plantes vivaces. Soc. d'Hort. et d'Acclim. du Maroc. B. 33: 52-53. Second Quart. 1948. 81 So2
- 9245 MOREY, D. H., JR. Forcing the Madonna lily [*Lilium candidum*]. Mo. Bot. Gard. B. 36: 149-154. Nov. 1948. 451 M69B
- 9246 MULLER-IDZERDA, A. C. Flowering heath in the house. (In Dutch.) Floralia 67: 220. July 17, 1947. 80 F6613
- 9247 MUNRO, J. Flowers with a future: hellebores pay for careful treatment. Nurseryman & Seedsman 107: 1116-1117. Oct. 14, 1948. 80 N933
- 9248 MUNRO, J. Once it was a weed. Nurseryman & Seedsman 107: 1288-1289. Oct. 28, 1948. 80 N933  
Erigeron.
- 9249 MUSSENBROCK, A., and BEACH, G. Cost comparisons—soil and gravel-grown carnations. Amer. Soc. Hort. Sci. Proc. 51: 623-626. June 1948. 81 So12
- 9250 MYHRE, A. S., and SCHWARTZE, C. D. Rooting evergreen cuttings with hormones. Amer. Soc. Hort. Sci. Proc. 51: 639-650. June 1948. 81 So12
- 9251 NAVLET, A. Visiting the flower seed farms of California. Seed World 63(9): 28, 30, 53. Nov. 7, 1948. 61.8 Se52
- 9252 NEW ZEALAND Gladiolus annual and yearbook, 1948. Ed. 3. Christchurch, 1948. 96 p. 96.43 N48
- 9253 NIELSEN, V. B. On the arrangement of flowers. (In Danish.) Tidsskr. for Husholdning. 27: 132-133. Nov. 3, 1948. 321.8 T43
- 9254 NILSSON, A. Experiments with greenhouse culture of sweet peas in 1948. (In Swedish.) Weibulls Allehanda 8(2): 5-19. 1948. 80 W42
- 9255 NILSSON, A. A home garden in Malmö. (In Swedish.) Trädgårdstidningen 20(7/8): 15. Apr. 1948. 80 T67
- 9256 NOBLE, M. The fabulous orchid family. XVII. Home Gard. So. 8: 283, 292. Dec. 1948. 80 H755
- 9257 NORDAL, O. Climbing plants. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere. 1948: 14-16. 86 N81
- 9258 NORTON, C. A baker's dozen of good lilies: what you want to know about them. Green Thumb 5(9): 22-25. Sept. 1948. 80 G82
- 9259 NUBOURGH, Y. L'architecte, l'urbaniste, le jardiniste. Courrier Hort. 10: 530-531. (Cont.) Sept. 1948. 80 C834
- 9260 OLSEN, A. The most admired bush. Kolkwitzia amabilis. (In Norwegian.) Norsk Hagetidend 64: 69-70. Apr. 1/15, 1948. 80 N81
- 9261 PAGE, H. W. The unheated greenhouse. Amateur Gard. 65(3358): 11. Sept. 21, 1948. 80 Am13
- 9262 PALMER, E. L. Christmas plants. Nature Mag. 41: 529-536. Dec. 1948. 409.6 N214
- 9263 PANNEKOEK, G. J. Fruit-bearing ornamental plants. (In Flemish.) Cult. en Handel 14: 627-628, 630, 701-703. Oct.-Nov. 1948. 80 C892
- 9264 PARKER, G. Begonias. New Zeal. Homes & Gard. 18(3): 7-8. June 1948. 80 N4823
- 9265 PAUTZSCH, A. They bloom in snow and cold, the Christmas rose [*Helleborus*]. Horticulture 26: 449. Dec. 1948. 80 H787
- 9266 PEARCE, S. A. Large-flowered Clematis. Amateur Gard. 65(3355): 8. Aug. 31, 1948. 80 Am13
- 9267 PEARCE, S. A. Potting plants for spring. Amateur Gard. 65(3364): 13. Nov. 2, 1948. 80 Am13
- 9268 PECKENPAUGH, P. The Christmas flowers of the southland, poinsettias. Flower Grower 35: 902-903. Dec. 1948. 80 M72
- 9269 PEDERSEN, M. Forcing of ornamental bulbs. (In Norwegian.) Norsk Hagetidend 64: 31. Feb. 1, 1948. 80 N81
- 9270 PESCOTT, E. E. The athel tree and the water bush. Westralian Farmers' Co-op Gaz. 14: 191, 193-194. Sept. 1948. 280.28 W522  
Tamarix aphylla and Myoporum montanum.
- 9271 PESMAN, M. W. Landscape that mountain home. Green Thumb 5(9): 18-21. Sept. 1948. 80 G82
- 9272 PETERSEN, E. O. The auricula. New Zeal. Homes & Gard. 18(3): 11-13. June 1948. 80 N4823  
Primula.
- 9273 PETERSEN, E. O. Iceland poppies and Cine-rarias. New Zeal. Homes & Gard. 17(10): 13-14. Jan. 1948. 80 N4823
- 9274 PETERSEN, E. O. Petunias and Salpiglossis. New Zeal. Homes & Gard. 18(5): 12-13. Aug. 2, 1948. 80 N4823
- 9275 PETERSEN, E. O. The Ranunculus. New Zeal. Homes & Gard. 18(2): 10-11. May 1, 1948. 80 N4823
- 9276 PETERSEN, E. O. Roses. New Zeal. Homes & Gard. 18(4): 14-16. July 1948. 80 N4823
- 9277 PETERSEN, E. O. Stately hollyhocks and lowly pansies. New Zeal. Homes & Gard. 18: 10-13. Apr. 1948. 80 N4823
- 9278 PETERSEN, E. O. Stocks. New Zeal. Homes & Gard. 17(12): 15-16. Mar. 1948. 80 N4823
- 9279 PETERSON, MRS. T. J. African violets (Saintpaulias). Wis. Hort. 39: 54. Oct. 1948. 80 W752
- 9280 PFEIFFER, N. E. Experiences in late spring transplanting of lilies to a new plastic cloth cage. Boyce Thompson Inst. Prof. Paper 2: 48-51. Aug. 1948. 451 B69P
- 9281 PFEIFFER, N. E. Experiments on forcing Easter lilies a second year. Boyce Thompson Inst. Prof. Paper 2: 52-54. Aug. 1948. 451 B69P
- 9282 PHILLIPS, G. A. Gay colour for grey days. Gard. Work Amateurs 69: 36-37. Oct. 9, 1948. 80 G1627
- 9283 PHILLIPS, G. A. R. Outdoor flowers in winter. Amateur Gard. 65(3364): 14. Nov. 2, 1948. 80 Am13
- 9284 PHILLIPS, G. A. R. Replenishing the herbaceous border. Amateur Gard. 65(3359): 14-15. Sept. 28, 1948. 80 Am13
- 9285 PIM, S. Bringing the garden indoors, October. My Gard. 37: 357-361. Oct. 1948. 80 M995
- 9286 PONTING, C. Dwarfing trees for table decorations. Pop. Gard. 50: 339. Nov. 6, 1948. 86 G1622
- 9287 PORTER, A. B. Odontoglossum grande. Austral. Orchid Rev. 13: 75. Sept. 1948. 80 Au73
- 9288 POST, K. Advancements point to more profits in Chrysanthemums. South. Florist & Nurseryman 61 (36): 9, 62-64. Dec. 3, 1948. 80 So86
- 9289 PRING, G. H. Nymphaea "Bob Trickett." Mo. Bot. Gard. B. 36: 155-156. Nov. 1948. 451 M69B
- 9290 PULLAR, E. A. Connecticut Chrysanthemums. Conn. Circle 11(10): 38-39. Oct. 1948. 280.8 C7632
- 9291 PULLAR, E. A. Holiday greens in the garden. Conn. Circle 11(12): 21-22. Dec. 1948. 280.8 C7632
- 9292 PULLAR, E. A. Looking forward to spring. Conn. Circle 11(11): 27, 31-32. Nov. 1948. 280.8 C7632  
Growing of flowering bulbs.
- 9293 QUARRELL, C. P. The cloche gardeners' guide—grow violets and other flowers for the vases. Pop. Gard. 50: 328. Oct. 30, 1948. 80 G1622
- 9294 RAHL, MRS. S. H. Dianthus in my garden. Back Eden 15: 7-8. Sept. 1948. 80 B12
- 9295 RAHL, MRS. S. H. Pansies in Texas. Back Eden 15(2): 6-7. Oct. 1948. 80 B12
- 9296 RANSON, N. R. House plants. Farm & Ranch 67(11): 55. Nov. 1948. 6 T31
- 9297 REEVES, A. M. The North American Gladiolus Council. New Zeal. Gladiolus Ann. & Ybk. 3: 51. 1948. 96.43 N48
- 9298 REUTERSWÄRD, G. Common wax plant [*Hoya carnosa*]. (In Swedish.) Trädgårdstidningen 20(5/6): 7. Mar. 1948. 80 T67
- 9299 RICHARDS, E. C. Our New Zealand trees and flowers. Christchurch, Simpson & Williams, 1947. 262 p. 460.38 R39
- 9300 RICHARDS, J. Commercial Camellia-flower production. Amer. Camellia Ybk. 1948: 18-30. 97.31 Am32
- 9301 RICHARDS, V. M. Growing daylilies from seeds. Back Eden 15(2): 8. Oct. 1948. 80 B12
- 9302 RICHARDSON, H. R. Lawns, greens and playing fields; the establishment and maintenance in metropolitan area. Agr. Gaz. N. S. Wales 59: 399-402. Aug. 1948. 23 N472



- 9303 RITCHIE, A. Pot plant growing. Scot. Farmer 56: 1226. Oct. 9, 1948. 10 Sco8
- 9304 ROBERSON, F. K. A coat of many colors. Northwest Gard. & Homes 16(8): 12, 34. Oct. 1948. 80 N813  
Color in the garden.
- 9305 ROBERTS, A. W. Stag-horn ferns [Platycerium]. Begonian 15: 238. Oct. 1948. 96.511 B39
- 9306 ROBINSON, MRS. L. J. The Gladiolus in Central Otago. New Zeal. Gladiolus Ann. & Ybk. 3: 35-37. 1948. 96.43 N48
- 9307 ROEKENS, F. Les Fuchsias. Courrier Hort. 10: 590-592. Oct. 1948. 80 C834
- 9308 ROMANNE-JAMES, MRS. C. In praise of stinging nettles [Urtica dioica]. Guild Gard. 23(10): 9. Oct. 1948. 80 G94
- 9309 RÖNNBERG, B. The garden from the lawn chair. (In Swedish.) Trädgårdstidningen 20: 20-21. Jan. 15, 1948. 80 T67
- 9310 ROOZEN, L. Agriculture in other lands: bulbs in Holland. Queensland Co-op. 3(16): 17. Sept. 9, 1948. 280.28 Q3
- 9311 ROSENBERG, H. Plant avenues of linden trees along public and private roads. (In Norwegian.) Birøkteren 64: 115-118. Aug. 1948. Ent. Sub-Br. Libr. Eden 15: 2-3. Sept. 1948. 80 B12
- 9312 ROSS, B. Why I like Hemerocallis. Back Eden 15: 2-3. Sept. 1948. 80 B12
- 9313 ROWARTH, R. L. Planting Dahlias for colour effects—types and varieties. Austral. Gard. Lover 24(7): 19, 21, 23, 43, 45. Oct. 1, 1948. 80 G1615
- 9314 ROWNTREE, L. Podocarpus. Gard. Chron. Amer. 52: 301. Nov. 1948. 80 G1632
- 9315 SÆLAND, P. Current objectives in landscape gardening in country and city. (In Norwegian.) Norsk Hagetidend 64: 73-76. Apr. 1/15, 1948. 80 N81
- 9316 SAMUELSSON, B. Directions for planting. (In Swedish.) Lantbrukstidskr. för Dalarna 1948: 166-170. Oct. 1948. 11 L29  
Trees and bushes.
- 9317 SAVONIUS, M. A. Leopard's bane. Nature Lover 5: 350. Aug. 1948. 410 N218  
Doronicum.
- 9318 SAWADA, K. Storing Camellia pollen. Amer. Camellia Ybk. 1948: 89-90. 97.31 Am32
- 9319 SCANLON, E. H. "Famous pairs"—plus: the European smoothleaf elm (Ulmus carpinifolia) and two varieties, the upright Wheatley elm (U. c. sarniensis) and the Globe-head elm (U. c. umbraculifera). Trees [Cleveland] 9: 10-11. Nov./Dec. 1948. 99.8 W52
- 9320 SCHAEFER, J. W. Camellia reticulata in the Pacific Northwest. Amer. Camellia Ybk. 1948: 40-41. 97.31 Am32
- 9321 SCHENK, P. J. Skin rash from Primulas. (In Dutch.) Floralia 67: 216-217. July 17, 1947. 80 F6613
- 9322 SCHNABEL, C. Progress of horticulture: Fuchsias. Calif. Hort. Soc. J. 9: 184-189. Oct. 1948. 81 C1293
- 9323 SCULL, E. Asclepias curassavica and Centaurea macrocephala. Back Eden 15(2): 9-10. Oct. 1948. 80 B12
- 9324 SEATON, H. E. Common mistakes in tree-planting. Guild Gard. 23(11): 9. Nov. 1948. 80 G94  
Landscape gardening.
- 9325 SEELEY, J. G. Automatic watering of potted plants. Amer. Soc. Hort. Sci. Proc. 51: 596-604. June 1948. 81 So12
- 9326 SEGERROS, H. E. Our gardening stronghold. (In Swedish.) Trädgårdstidningen 20(7/8): 17-20. Apr. 1948. 80 T67  
Alnarp castle garden in Malmöhus Province.
- 9327 SHEWELL-COOPER, W. E. Bulbs in formal beds. Field 192: 471. Oct. 23, 1948. 10 F45
- 9328 SHEWELL-COOPER, W. E. Plants in the house. The pleasures of growing blooms in pots. Field 192: 527. Nov. 6, 1948. 10 F45
- 9329 SHRAGER, J. Plan ahead when you buy nursery stock. Organic Gard. 13(6): 30-32. Dec. 1948. 56.8 Or3
- 9330 SHRUBSHALL, A. H. Loss of scent in musk plant. New Zeal. Gard. 5: 148-150. Oct. 1, 1948. 80 N4822
- 9331 SHURLY, E. Management of Cacti in winter. Pop. Gard. 50: 339. Nov. 6, 1948. 86 G1622
- 9332 SIEBER, W. Orchids in Switzerland. Orchid Rev. 56: 167-168. Nov. 1948. 80 Or15
- 9333 SMITH, L. Rock garden plants. Green Thumb 5(9): 27-28. Sept. 1948. 80 G82
- 9334 SMITTHETT, P. B. Glads in Great Britain. New Zeal. Gladiolus Ann. & Ybk. 3: 50. 1948. 96.43 N48
- 9335 SOUSTER, J. Banksia praemorsa. Gard. Chron. 124: 150. Nov. 6, 1948. 80 G162
- 9336 STAUTEMAS, E. Mixed borders. (In Flemish.) Tuinbouwberichten 12: 161-162. Oct. 15, 1948. 80 T817
- 9337 STEEN, F. VAN. Culture of roses under glass. (In Flemish.) Cult. en Handel 14: 433-435, 643-645. July, Oct. 1948. 80 C892
- 9338 STEFFEK, E. F. Marsh marigold [Caltha palustris]. Nature Mag. 41: 543. Dec. 1948. 409.6 N214  
409.6 N214
- 9339 STOKES, J. Hormones, chemicals, and Camellias. Amer. Camellia Ybk. 1948: 31-40. Ref. 97.31 Am32
- 9340 STOUT, A. B. A new race of double-flowered daylilies. Home Gard. So. 8: 282-283. Dec. 1948. 80 H755
- 9341 STOUTEMYER, V. T. Newer methods of plant propagation. Calif. Hort. Soc. J. 9: 164-173. Oct. 1948. 81 C1293
- 9342 STOUTEMYER, V. T. Viburnums—useful all-purpose shrubs. Golden Gard. 13: 8. Oct. 1948. 80 G56
- 9343 STUART, N. W. Growing Chrysanthemums in subirrigated vermiculite for spring bloom. Amer. Soc. Hort. Sci. Proc. 51: 593-595. June 1948. 81 So12
- 9344 SWIM, H. C. Rose breeding interesting but technical. South. Florist 61(34): 13, 65-67, 100-101. Nov. 19, 1948. 80 So86
- 9345 TALBERT, T. J. A living rose fence. Better Crops with Plant Food 32(9): 23-24, 42-43. Nov. 1948. 6 B46
- 9346 TAYLOR, G. M. Hedges of unusual character. Amateur Gard. 65(3359): 12. Sept. 28, 1948. 80 Am13
- 9347 TEELE, MRS. A. P. Flower arrangement with Camellias. Amer. Camellia Ybk. 1948: 144-153. 97.31 Am32
- 9348 TEGTMEIER, A. Veronicas in the rock garden. Gard. Chron. Amer. 52: 297. Nov. 1948. 80 G1632
- 9349 THOMAS, D. G. The best sweet peas. Amateur Gard. 65(3358): 13, 23. Sept. 21, 1948. 80 Am13
- 9350 THOMAS, G. S. Grouping shrubs for effects. Gard. Illus. 65: 208. Nov. 1948. 80 G169
- 9351 THOMPSON, M. M. Inland Fuchsias. Begonian 15: 239. Oct. 1948. 96.511 B39
- 9352 TREAT, MRS. E. M., JR. Grandfather's garden. Gard. Club Amer. B. (ser. 11) 11: 36-39. Nov. 1948. 90.32 G16
- 9353 TIEMANN, O. R. A hybrid Penstemon. Back Eden 15(2): 1, 11. Oct. 1948. 80 B12
- 9354 TRIM, C. L. Early flowering Chrysanthemums for show. Gard. Illus. 65: 226-227. Dec. 1948. 80 G169
- 9355 U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Plant living fences of multiflora rose. Milwaukee, 1948. 2 p. 1.9605 P695
- 9356 VAN HOESEN, S. Angel's trumpet [Datura]. Nature Mag. 41: 524. Dec. 1948. 409.6 N214
- 9357 VAN KONYENBURG, J. Daffodils for garden display. Amateur Gard. 65(3355): 8. Aug. 31, 1948. 80 Am13
- 9358 VILLÈNEUVE, G. O. Architecture paysagiste. III. Quelques conseils. Forêt Québécoise 13: 613, 703-704. 1948. 99.8 F79
- 9359 VINCENT, S. Plantes bulbeuses et leur plantation. Foyer Rur. [Montreal] 8(1): 10. Oct. 1948. 7 F83
- 9360 WALL, J. T. The Wisley strain of Gazanias. Gard. Chron. 124: 167. Nov. 20, 1948. 80 G162
- 9361 WARD, F. K. Jasminum attenuatum. Gard. Chron. 124: 150-151. Nov. 6, 1948. 80 G162
- 9362 WARD, F. K. Polygonum paniculatum. Gard. Chron. 124: 158-159. Nov. 13, 1948. 80 G162
- 9363 WARD, J. O. V. Trees on spoil heaps. Gard. Chron. 124: 158. Nov. 13, 1948. 80 G162



- 9364 WASSCHER, J. Begonias. (In Dutch.) Tuinbouw 3: 41-44. Feb. 1948. 80 T815
- 9365 WATERHOUSE, E. G. The nomenclature of some Japanese Camellias. Amer. Camellia Ybk. 1948: 58-63. 97.31 Am32
- 9366 WATERMAN, W. G. The showy lady-slipper [Cypripedium reginae] can be saved. Gard. Club Amer. B. (ser. 11): 87-90. Nov. 1948. 90.32 G16
- 9367 WAUSER, G. A propos de Dahlias. Courrier Hort. 10: 536-537. Sept. 1948. 80 C834
- 9368 WEISS, O. Die rose. Unser Wegweiser im Obstbau, Gart., Kleintierhof 3: 98. Aug. 1948. 18 Un7
- 9369 WELLS, J. B. Planting out border carnations. Amateur Gard. 65(3358): 12. Sept. 21, 1948. 80 Am13
- 9370 WERTSNER, A. B. Grow and make your own Christmas decorations. Horticulture 26: 453, 465. Dec. 1948. 80 H787
- 9371 WESTCOTT, C. Prescriptions for house plant health. Sun-up 3(5): 26. Winter 1948. 80 Su7
- 9372 WHITE, H. L. They make their own climate: plants in bottles. Horticulture 26: 454. Dec. 1948. 80 H787
- 9373 WHITEHEAD, L. A. Dish gardens. Gard. Gossip 23(10): 9, 20. Oct. 1948. 80 G1625
- 9374 WIEME, G. Cyclamen culture. (In Flemish.) Cult. en Handel 14: 641-643. Oct. 1948. 80 C892
- 9375 WILDE, E. I. Perennial garden Phlox. Organic Gard. 13(6): 22-25. Dec. 1948. 56.8 Or3
- 9376 WILKINSON, A. K. Beautiful bulbs. New Zeal. Homes & Gard. 17(12): 14. Mar. 1948. 80 N4823
- 9377 WILLIAMS, E. About "cane" orchids. Austral. Orchid Rev. 13: 73-75. Sept. 1948. 80 Au73
- Varieties easy to grow.
- 9378 WILLIAMS, L. O. Orchids around the world. Amer. Orchid Soc. B. 17: 645-649. Nov. 1948. 80 Am329
- Honduras.
- 9379 WILSON, M. M. Roses in a Scottish reader's garden. Pop. Gard. 50: 269. Sept. 18, 1948. 80 G1622
- 9380 WIMMER, J. D. A novice with peonies. Calif. Gard. 39(3): 3-4. Autumn 1948. 80 C127
- 9381 WITTOCK, M. Outdoor culture of tulips for cut flowers. (In Flemish.) Cult. en Handel 14: 631-633. Oct. 1948. 80 C892
- 9382 WOOD, A. H., JR. The Christmas gift plants want to live for you. Horticulture 26: 448. Dec. 1948. 80 H787
- 9383 WOOD, W. T. 1948 Camellia variety poll. Amer. Camellia Ybk. 1948: 176. 97.31 Am32
- 9384 WOODROFFE, F. B. Glamour plants to liven your rooms. Better Homes & Gard.: 40-41, 204-205. December 1948.
- 9385 WOODWARD, H. R. Acid-loving plants. N. & S. Dak. Hort. 21: 152, 157. Nov. 1948. 81 N817
- 9386 WORTH, W. Dendrobium speciosum var. hillii. Austral. Orchid Rev. 13: 77-78. Sept. 1948. 80 Au73
- 9387 WYLAM, W. E. Australian importations. Amer. Camellia Ybk. 1948: 64-69. 97.31 Am32
- 9388 WYMAN, D. The better hardy vines. Amer. Nurseryman 88(11): 7-9, 48. Dec. 1, 1948. 80 Am371
- 9389 ZIEDLER, F. A mayor appreciates trees. Green Thumb 5(10): 27-28. Oct. 1948. 80 G82
- Vegetable and Truck Crops (Including Potatoes)**
- 9390 AGAPOV, S. P. Semenovodstvo stolovoi i kormovoi svekly [Seed production of table and forage beets]. Moskva, Moskovskii Rabochii, 1948. 91 p. 91.3 Ag1
- 9391 ALBERTA. DEPT. OF AGRICULTURE. FIELD CROPS BR. The production of field peas in Alberta. Alberta. Dept. of Agr. Ext. Serv. C. 78, rev., 3 p. Mar. 1948. 275.29 AL122
- 9392 ANDERSON, W. S. Plant early for profit. Sweet Potato J. 3(7/9): 5-7. July/Sept. 1948. 80 Su32
- 9393 ASSCHE, F. VAN. Tomato culture in coldframes. (In Flemish.) Tuinbouwberichten 12: 36-37. Mar. 15, 1948. 80 T817
- 9394 AXELSSON, F. Seed purchase and varieties, advice and directions in regard to vegetables for the kitchen garden. (In Swedish.) Trädgårdstidningen 20 (7/8): 23, 31. Apr. 1948. 80 T67
- 9395 BARNES, W. C. The performance of Palmetto, a new downy mildew-resistant cucumber variety. Amer. Soc. Hort. Sci. Proc. 51: 437-441. June 1948. 81 So12
- 9396 BATIKIN. El cultivo del tomate. Campo y Suelo Argentino 32(383): 22, 24-27, 70. Sept. 1948. 9 C15
- 9397 BAUDEWIJN, J. Mushroom culture in England. (In Flemish.) Cult. en Handel 14: 640-641. Oct. 1948. 80 C892
- 9398 BEDOUE, J. La pomme de terre au XVIII<sup>me</sup> siècle. Pomme de Terre Franç. 11(105): 18-20. May 1948. 75.8 P77
- 9399 BENDER, E. K. Producing more and better spinach in Maryland. Md. Agr. Col. Ext. Hort. Ext. Mimeog. 32, 6 p. Aug. 1948. 275.29 M36Em
- 9400 BIFFEN, W. Lift mangolds before heavy frosts come. Smallholder 80(2012): 20. Oct. 22, 1948. 10 Sm1
- 9401 BIRCKEL, L. Le jardin familial. Rustica 21: 522-523. Aug. 1, 1948. 14 R92
- 9402 BIRENBAUM, M. B. Experiments with Jerusalem artichokes in the years of 1945 and 1946. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 7: 27-29. 1948. 20 M857
- 9403 BISHOP, J. C. Some advantages in pelleting vegetable seeds for large operations. Fruit & Veg. Rev. 9(7): 15, 26. Oct. 1948. 80 C1224
- 9404 BOWMAN, G. A. Why not improve your sweet potatoes? Calif. Farmer, North. Ed. 189: 304. Oct. 9, 1948. 6 C126
- 9405 BREMER, A. H. Choice of vegetables and root crops. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1948: 21-24. 86 N81
- 9406 BROWN, H. D. Vitamins and minerals in the production of vegetables. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 28-42. Ref. 1948. 81 V52
- 9407 BRYZGALOV, V. A. Spravochnik ogorodnika [Vegetable grower's handbook]. Ed. 2, rev. Leningrad? Leningradskoe Gazetno-Zhurnal'noe i Knizhnoe Izd-vo, 1948. 117 p. 91.15 B84
- 9408 CAIRASCHI, E. A. Perspectives de comportement en 1949. Pomme de Terre Franç. 11(109): 7-8. Sept. 1948. 75.8 P77
- 9409 CARDWELL, I. Lettuce in heated glasshouses. Grower 30: 566-568. Oct. 9, 1948. 286.83 M34
- 9410 CARRE, G. La conservation idéale des plants de pommes de terre pendant l'hiver. Potasse 22: 162-164. Oct. 1948. 57.8 P84
- 9411 CLAESEN, V. Melon culture. (In Flemish.) Tuinbouwberichten 12: 41-42. Mar. 15, 1948. 80 T817
- 9412 DAVIDSE, J. Pulling chicory roots. (In Dutch.) Groenten en Fruit 3: 425. Feb. 12, 1948. 80 G89
- Culture.
- 9413 DEMESMAY, H. "Amélioration de la production agricole." Conservation et préparation du plant. Pomme de Terre Franç. 11(109): 8-9. Sept. 1948. 75.8 P77
- 9414 DEMESMAY, H. Des réalisations. Pomme de Terre Franç. 11(110): 5-9. Oct. 1948. 75.8 P77
- 9415 DOLAN, D. D., and CHRISTOPHER, E. P. Vegetable gardens. R. I. State Col. Ext. Misc. C. 49, rev., 7 p. Apr. 1948. 275.29 R34M
- 9416 DORST, J. C. A national program for potato breeding in the Netherlands. n. p., 1947? 3 p. 75 D73N
- 9417 EKBRANT, L. Blanched and leaf celery. (In Swedish.) Trädgårdstidningen 20: 24-25, 28. Jan. 15, 1948. 80 T67
- 9418 EKBRANT, L. Celery culture. (In Swedish.) Trädgårdstidningen 20: 8-10. Jan. 1, 1948. 80 T67
- 9419 ELLIS, N. K. Tips for improving Indiana's potatoes. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1948: 3-4. Sept. 18, 1948. 275.29 In2En
- Vine killing and harvesting.
- 9420 EVERSON, H. Make tomatoes ripen early. Capper's Farmer 59(12): 28-29. Dec. 1948. 6 M693
- With growth stimulating hormones.
- 9421 FAUCILLON, X. Pour avoir de belles asperges sélectionnez les plants. Rustica 21: 721. Oct. 10, 1948. 14 R92



- 9422 FENNEL, J. L. La calabaza tropical da un paso de avance. Rev. del Café 4(4): 13-14. Sept. 1948. 8 R3295
- 9423 FERBER, H. Braunschweig cabbages sown on the spot. (In Hebrew.) Hassadeh 28: 510-511. Sept. 1948. 26 H27
- 9424 GAMBY, E. From the history of potato growing. (In Swedish.) Trädgårdstidningen 20: 58-59. Feb. 15, 1948. 80 T67
- 9425 GEBERT. Italienische pflanzkartoffelsorgen. Neue Mitt. f. die Landw. 3: 407. Nov. 15, 1948. 18 N39
- 9426 GERST, K. Fünfzig pflanzen aus einer kartoffel. Landpost 4(8): 2. Apr. 25, 1948. 18 L2329
- 9427 GEYER, H. Gesundes pflanzgut—voraussetzung für höhere kartoffelernten. Neue Mitt. f. die Landw. 3: 79-80. Mar. 21, 1948. 18 N39
- 9428 GILEADI, D. An experiment in cucumber-growing at Ashdot-Yaacov. (In Hebrew.) Hassadeh 28: 512-514. Sept. 1948. 26 H27
- 9429 GILEADI, D. Experiments with early vegetables. (In Hebrew.) Hassadeh 28: 509-510. Sept. 1948. 26 H27
- 9430 GOMES, P. Onion culture. (In Portuguese.) Rev. Agron. 12: 106. Apr./June 1948. 9.2 R325
- 9431 GOMES, P. Sweet potato culture. (In Portuguese.) Rev. Agron. 12: 107-108. Apr./June 1948. 9.2 R325
- Also in Lav. Arroz. 2(19): 31-32. July 1948. 59.8 L39
- 9432 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Outdoor salad crops. Gt. Brit. Min. Agr. and Fisheries. B. 55, 42 p. 1948. 10 G794B
- 9433 GRECO, C. H. El cultivo de la papa. Campo y Suelo Argentino 32(383): 23. Sept. 1948. 9 C15
- 9434 HAJEK, H. Die tomate. Wirtschztg. 3(37): 14. Sept. 10, 1948. 280.8 W742
- History.
- 9435 HARDY, J. Winter rhubarb pays. Poultry Farmer [London] 119(3099): 9. Nov. 26, 1948. 47.8 F312
- 9436 HASTINGS, W. R. Super squash joins 1949 AAS [All-America Selections]. South. Seedsman (11 i. e. 12): 15, 54. Dec. 1948. 61.8 So8
- 9437 HELLBO, E. Field control of seed potatoes during the year 1947. (In Swedish.) Lantmannen 32: 127-128, 130. Feb. 21, 1948. 11 L234
- 9438 HERMANT, E. La conservation des plants de pommes de terre. B. Hort. (n. s.) 3: 259-260. Sept. 1, 1948. 80 B873
- 9439 HERRICK, J. A. Mushrooms—to eat or not to eat. School Sci. & Math. 48: 679-685. Ref. Dec. 1948. 470 Sch64
- 9440 HOME GROWN THRESHED PEAS JOINT COMMITTEE. Annual report, 4, 1947/48. London, 1948. 16 p. 60.39 H75
- 9441 HOUGHLAND, G. V. C., and PARKER, M. M. A study of three factors in potato production: row spacing, seed spacing, and fertilizer rate. Amer. Potato J. 25: 393-406. Nov. 1948. 75.8 P842
- 9442 HUGHES, M. B. Breeding cantaloupes for southern conditions. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 122-123. 1948. 4 C82
- 9443 JONGHE, DE. Single cross [tomato] and heterosis. (In Flemish.) Cult. en Handel 14: 169. Mar. 1948. 80 C892
- 9444 JÖNSSON, I. Spring seeding of a farm vegetable garden. (In Swedish.) Trädgårdstidningen 20(7/8): 16. Apr. 1948. 80 T67
- 9445 KAVEN, G. Reiche tomatenernte. Landpost 4(11): 3-4. June 10, 1948. 18 L2329
- 9446 KAVEN, G. Von süßen kartoffeln und vom entkeimen. Gartenjahr 3: 145-146. Sept. 1948. 80 G1932
- 9447 KENNELLY, A. G. The growing of mushrooms. New Zeal. J. Agr. 77: 157-160. Aug. 1948. 23 N48J
- 9448 KERS, D. H. Witloof culture in Belgium. (In Dutch.) Groenten en Fruit 3: 470-471. Mar. 4, 1948. 80 G89
- 9449 KIMBROUGH, W. D. Yields of three industrial varieties of sweet potatoes. Amer. Soc. Hort. Sci. Proc. 51: 390-392. June 1948. 81 So12
- 9450 KNOTT, J. E., and HANNA, G. C. The influence of various summer planting dates on the yield of broccoli strains. Amer. Soc. Hort. Sci. Proc. 51: 428-432. June 1948. 81 So12
- 9451 KOOYMAN, W. Rhubarb culture in England. (In Dutch.) Tuinbouw 3: 268-271. Oct. 1948. 80 T815
- 9452 LAGARDE, J. Hâtons-nous de semer colza et navette d'hiver. Acclimatation 75: 192. Sept. 11, 1948. 14 Ac2
- 9453 LARSON, R. E., and LI, P. F. The influence of various row and plant spacings on yields of lima beans. Amer. Soc. Hort. Sci. Proc. 51: 479-485. June 1948. 81 So12
- 9454 LAUWERS, R. L'industrie du champignon. Elevages Mod.: 160-161. Oct. 1948. 49 E122
- Chiefly culture.
- 9455 LAWRENCE, W. J. C. Artificial illumination and better breeding for earlier tomatoes. Grower [London] 30: 787-788. Nov. 6, 1948. 286.83 M34
- 9456 LUTKEN, T. Corny but sweet. Hawaii Farm & Home 11(10): 63-64. Nov. 1948. 25 H3191
- Sweet corn culture in Hawaii.
- 9457 MCDERMOT, N. Key for the identification of commercial potato varieties and rogues in the field (United Kingdom). Sutton Bonington, 1948. 64 p. 452.35 M14
- 9458 MCGOLDRICK, F., and SMITH, O. Killing potato vines. Amer. Soc. Hort. Sci. Proc. 51: 401-405. June 1948. 81 So12
- 9459 MAGRUDER, R. Natural crossing in lima beans in southern California in 1946. Amer. Soc. Hort. Sci. Proc. 51: 471-474. June 1948. 81 So12
- 9460 MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. How to pick potatoes faster and easier. Maine. Agr. Col. Ext. C. 229, 6 p.-folder. Sept. 1947. 275.29 M281C
- 9461 MALLEKOTE, L. The Streek, the land of the late cauliflower. (In Dutch.) Groenten en Fruit 4: 234-235. Oct. 21, 1948. 80 G89
- 9462 MARTINI. Ist der anbau von ackersegen noch zeitgemäss? Württemberg Wchnbl. f. Landw. 115: 287-288. Oct. 16, 1948. 18 W96
- Potato varieties.
- 9463 MAST, J. J., and GROENEWEGEN, J. H. Experiences with the new method of grafting cucumbers. (In Dutch.) Groenten en Fruit 3: 472, 504. Mar. 4, 18, 1948. 80 G89
- 9464 MEYER, A., and CLARK, J. C. Yields of Porto Rico sweetpotatoes in relation to size of plants set (a preliminary report). Amer. Soc. Hort. Sci. Proc. 51: 395-396. June 1948. 81 So12
- 9465 MIDDELBARE TUINBOUWSCHOOL WETTEREN. Greenhouse tomatoes. (In Flemish.) Tuinbouwberichten 12: 151-152. Oct. 15, 1948. 80 T817
- 9466 MONOT, G. Résultats d'essais de brulage de fanes. Pomme de Terre Franç. 11(110): 13-15. Oct. 1948. 75.8 P77
- 9467 MORGAN F., C. Sub-proyecto de papa temprana bajo la dirección técnica del representante rural del SCIPA en Huancayo, Ingeniero Abelardo Baracco Gandolfo. Agronomia [Lima] 12(51): 51-63. June/July 1947. 9.8 Ag83
- 9468 NANNIZZI, A. The white agaric, Fomes officinalis, and possibility of popularizing it. (In Italian.) Piante Officinali 3(8): 1-4. Aug. 1948. 71.8 P57
- 9469 NETHERLANDS. FOREIGN PROPAGANDA COMMISSION FOR SEED POTATOES. The seed potato of the Netherlands. Amsterdam, 1947. 20 p. 75 N382
- 9470 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BR. Mushroom culture. Ed. 9. Sydney, Tennant, 1947. 34 p. 91.7 N47
- 9471 NISSLEY, C. H. New Jersey vegetables. N. J. State Hort. Soc. Hort. News 29: 2103, 2105. Nov. 1948. 81 N46
- 9472 NONKES, J. Cauliflower growers—watch out! Most failures with cauliflower is the result of poor culture. (In Dutch.) Groenten en Fruit 4: 128-129. Sept. 2, 1948. 80 G89
- 9473 NONKES, J. Lettuce grower—think of the final stage. (In Dutch.) Groenten en Fruit 3: 521. Mar. 25, 1948. 80 G89
- Culture.
- 9474 ÖBERG, O. Vegetables for Norrland. (In Swedish.) Trädgårdstidningen 20(7/8): 10-11, 30-31. Apr. 1948. 80 T67
- 9475 ODLAND, M. L. Eggplant hybrids produce high yields of uniform fruit. Sci. Farmer [Pa. Sta.] 1948: 11. Oct. 1948. 100 P383



- 9476 ODLAND, M. L., and NOLL, C. J. Hybrid vigor and combining ability in eggplants. *Amer. Soc. Hort. Sci. Proc.* 51: 417-422. June 1948. 81 S012
- 9477 OLLIVER, G. El cultivo de la cebolla. *Campo y Suelo Argentino* 32(383): 30, 32. Sept. 1948. 9 C15
- 9478 OSUNA, P. Como cultivar algunas hortalizas. *Rev. del Café* 4(4): 11-12; (5): 9. Sept.-Oct. 1948. 8 R3295
- 9479 OSWALD, K. My 100 varieties of potatoes. *North. Gard.* 2: 548-552. Nov. 1948. 80 N816
- 9480 PARIS, G. An innovation in potato culture: tubers in refrigeration for summer-autumn crops. (In Italian.) *Gior. di Agr.* 57: 3. Jan. 5, 1947. 16 R11G
- 9481 PETERSEN, E. O. Short studies of potato varieties. I-VIII. *New Zeal. Homes & Gard.* 17(11): 10-11; (12): 12-13; 18(1): 17; (2): 15-16; (3): 8; (4): 8; (5): 15; (6): 13-14. Feb.-Sept. 1948. 80 N4823
- 9482 PETO, H. B. New hybrid tomato. *West. Grower & Shipper* 19(12): 137. Nov. 1948. 280.38 W52
- 9483 PLEIJEL, K. We plant vegetables and annuals. (In Swedish.) *Trädgårdstidningen* 20: 6-7, 33-34. Apr. 1948. 80 T67
- 9484 QUARRELL, C. P. Cauliflowers; sow now for early summer cutting. *Nurseryman & Seedsman* 107: 868-869. Sept. 23, 1948. 80 N933
- 9485 QUARRELL, C. P. Cloche-grown tomatoes. *Pop. Gard.* 50: 267, viii. Sept. 18, 1948. 80 G1622
- 9486 QUARRELL, C. P. Crops in frames. *Gard. Illus.* 65: 234. Dec. 1948. 80 G169
- 9487 QUARRELL, C. P. Early cauliflowers under cloches. *Pop. Gard.* 50: 278. Sept. 25, 1948. 80 G1622
- 9488 QUARRELL, C. P. Lettuces as a cloche crop. *Pop. Gard.* 50: 290. Oct. 2, 1948. 80 G1622
- 9489 RADUGIN, P. Opyt kartofelevodov Ukhomskogo rayona [Practices of potato growers in Ukhomskii district]. *Moskva, Moskovskii Rabochii*, 1948. 63 p. 75 R11
- 9490 ROLL-HANSEN, J. Onion culture—objectives and means. (In Norwegian.) *Norsk Hagetidend* 64: 63-67. (To be cont.) Apr. 1/15, 1948. 80 N81
- 9491 ROSENTHAL, Z. Remarks on the article "A new method for the growing of cauliflower seed." (In Hebrew.) *Hassadeh* 28: 466-467. Aug. 1948. 26 H27
- 9492 SAUVIGNON, La sélection. *Pomme de Terre Franç.* 11(111): 10-14. Nov. 1948. 75.8 P77
- 9493 SAYRE, C. B. Early and total yields of tomatoes as affected by time of seeding, topping the plants, and space in the flats. *Amer. Soc. Hort. Sci. Proc.* 51: 367-370. June 1948. 81 S012
- 9494 SCHEYGROND, W. Mangel variety problems. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 406-413. Sept. 1948. 105.2 Or3
- 9495 SHEWELL-COOPER, W. E. Cabbages for spring. *Pop. Gard.* 50: 267. Sept. 18, 1948. 80 G1622
- 9496 SHEWELL-COOPER, W. E. Early cauliflowers. High soil fertility is essential for a perfect crop. *Field* 192: 443. Oct. 16, 1948. 10 F45
- 9497 SHEWELL-COOPER, W. E. Lettuces under cloches. *Amateur Gard.* 65(3355): 13, 15. Aug. 31, 1948. 80 Am13
- 9498 SHEWELL-COOPER, W. E. Turnip tops as a greenstuff reserve. *Pop. Gard.* 50: 268. Sept. 18, 1948. 80 G1622
- 9499 SIDWELL, R. W. Vegetable forcing without glass. *Amateur Gard.* 65(3364): 19. Nov. 2, 1948. 80 Am13
- 9500 SIMONS, A. J. Outdoor tomatoes—the end of the season. *Gard. Work Amateurs* 68: 507-509. Aug. 28, 1948. 80 G1627
- 9501 SINGH, H. B., and PAL, B. P. Utilization of the wild relatives of tomato for breeding. *Sci. and Cult.* 14: 103-106. Sept. 1948. 475 Sci24
- 9502 SLAATS, M. Selection in onion seed production. (In Flemish.) *Tuinbouwberichten* 12: 48-49. Mar. 15, 1948. 80 T817
- Breeding and pollination.
- 9503 SMITH, O. Revolutionary changes in potato production are just around the corner. *Veg. Growers Assoc. Amer. Ann. Rpt.* 40: 47-58. 1948. 81 V52
- 9504 SROKA, K. H. Die kerbelrübe [Myrrhis bulbosa]. *Obst- u. Gartenbau* 3: 51. Sept. 1, 1948. 80 Ob72
- 9505 STEVENSON, F. J. Potato varieties made to order. *Veg. Growers Assoc. Amer. Ann. Rpt.* 40: 132, 134, 136, 138, 140, 142, 144, 146, 148, 150. 1948. 81 V52
- 9506 STUYCK, M. L'approvisionnement de l'agriculture belge en plants de pommes de terre. *Rev. de l'Agr.* 1: 583-588. July/Aug. 1948. 13 R322
- 9507 SVENSSON, V. New vegetables for the coming season. (In Swedish.) *Weibulls Allehanda* 8(2): 20-24. 1948. 80 W42
- 9508 TAGLIAFERRI, L. A. El cultivo de la lenteja. *Campo y Suelo Argentino* 32(383): 35, 37. Sept. 1948. 9 C15
- 9509 THOMSEN, F. Fall work with beets. (In Danish.) *Dansk Landbr.* 67: 391. Oct. 14, 1948. 280.28 V91
- Harvesting.
- 9510 ULMAN, H. Additional notes on a new method for the production of cauliflower seed. (In Hebrew.) *Hassadeh* 28: 514. Sept. 1948. 26 H27
- 9511 VANDENBRANDE, F. Observations on vegetable culture in cold frames. (In Flemish.) *Cult. en Handel* 14: 170. Mar. 1948. 80 C892
- 9512 VEGETABLE GROWERS ASSOCIATION OF AMERICA, INC. Annual report, 40, 1948. n. p., 1948. 276 p. 81 V52
- 9513 VOLKOVA, A. A. Results of three years variety testing of tomatoes. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 7: 130-135. 1948. 20 M857
- 9514 VRIEND, S. Difficulties and possibilities in growing cucumbers in greenhouses. (In Dutch.) *Groenten en Fruit* 3: 440-441. Feb. 19, 1948. 80 G89
- 9515 WADE, B. L. Important problems in vegetable breeding. *Amer. Soc. Hort. Sci. Proc.* 51: 333-340. June 1948. 81 S012
- 9516 WALBAUM, P. La destruction des fanes de pommes de terre. *Rev. Agr. de l'Afrique du Nord* 46: 448-449. Sept. 3, 1948. 80 R326
- 9517 WARK, D. C., and GILES, J. E. Some studies in the growth of tomato plants and comparison of tomato varieties grown under irrigation. *Austral. Council Sci. and Indus. Res. J.* 21: 99-115. May 1948. 514 Au72J
- 9518 WATKINS (IVON) LTD. "Dormatone." New Plymouth, N. Z., 1948. 2 p. 90.11 W322
- Sprout prevention in potatoes and other root crops.
- 9519 WEZER, A. VAN. Choux blancs et choux rouges hatifs. *Courrier Hort.* 10: 546-547. Sept. 1948. 80 C834
- 9520 WRIGHT, P. H. There's even something new to be learned about rhubarb. *Saskatchewan Farmer* 39 (23): 6. Dec. 2, 1948. 7 Sa74
- Chiefly culture.
- 9521 WYNN, J. Selecting the best exhibition vegetables. *Pop. Gard.* 50: 277. Sept. 25, 1948. 80 G1622
- 9522 YARNELL, S. H. The southern tomato exchange program. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 125. 1948. 4 C82
- 9523 YODER, J. B. The two-zone tray system in practice. *MGA Bulletin* 13: 182-183. Oct. 1948. 80 M97
- 9524 YOUNG, P. A. Methods of raising tomatoes profitably in east Texas. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1133, 4 p. Sept. 20, 1948. 100 T31P

## WEEDS AND POISONOUS PLANTS

- 9525 ÅBERG, E., and others. Use of hormone derivatives in agriculture. (In Swedish.) *Försök och Forskning* 5: 17-19. Mar. 1948. 11 F77
- G. Sundelin, G. Jacobson, C. M. Björklund, and C. F. Gelinder, joint authors.
- Weed control.
- 9526 ÅKESSON, N. B. Chemical weed control equipment. *Blue Anchor* 25(4): 11, 37. Nov. 1948. 286.83 B62
- 9527 ALBAN, E. K., and KEIRNS, V. E. Pre-emergence and post-emergence weed control in vegetable crops with 2,4-D, and oil. *Amer. Soc. Hort. Sci. Proc.* 51: 526-532. Ref. June 1948. 81 S012
- 9528 ALBERT, C. L. Direkte und indirekte unkrautbekämpfung. *Landpost* 4(3): 3. Feb. 10, 1948. 18 L2329
- 9529 ALIBERT, H. Thesium humile, Vahl, plante hémiparasite des céréales. *Rev. Agr. de l'Afrique du Nord* 46: 417-418. Aug. 20, 1948. 80 R326



- 9530 ARLE, H. F., and LEONARD, O. A. Studies of nut grass control by fumigation. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 140-141. 1948. 4 C82
- 9531 ASLANDER, A. Technique of the chlorate method. (In Swedish.) Lantmannen 32: 149-152, 204-206. Feb. 28, Mar. 20, 1948. 11 L234
- 9532 ASPENGRÉN, H. On sodium chlorate. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 25-28. 1948. 99.8 Sk5  
As herbicide.
- 9533 AUWERMEULEN, J. VAN DER. Weed control and adequate fertilizing in young orchards at the same time. (In Flemish.) Cult. en Handel 14: 561-562. Sept. 1948. 80 C892  
Cover crops.
- 9534 BAILEY, J. S. Controlling quack grass by spraying with Ammate or Atlacide. Amer. Soc. Hort. Sci. Proc. 51: 563-564. June 1948. 81 So12
- 9535 BARRONS, K. C. Pre-emergence weed control. Down to Earth 4(3): 2-4. Winter 1948. 381 D75
- 9536 BAUER, R. The buffalo bur. Back Eden 15: 9. Sept. 1948. 80 B12
- 9537 BELL, L. J. Do we make too much fuss about weeds? Smallholder 80(2010): 8. Oct. 8, 1948 10 Sm1
- 9538 BREMER, A. H. Chemical substances in weed control. (In Norwegian.) Norsk Hagetidend 64: 21-22. Feb. 1, 1948. 80 N81
- 9539 CISNEROS, A. Cómo extirpar una planta invasora: el sorgo de Alepo. Res 16: 22967. Nov. 5, 1948. 286.85 R31
- 9540 COCHRAN, E. A. Klamath weed [*Hypericum perforatum*]-Humboldt County cattlemen organize efforts to control scourge of range. West. Livestock J. 27: 74, 80, 82, 86, 89, 90. Nov. 15, 1948. 6 F2278
- 9541 COURTS, G. La lutte contre les mauvaises herbes. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 1(1): 7-12. July 1948. 25 M26
- 9542 COUTIERE, G. La lutte contre les chardons. Rev. Agr. de l'Afrique du Nord 45: 508-509. Oct. 24, 1947. 80 R326
- 9543 CRAFTS, A. S., and EMANUELLI, A. Combination of 2,4-D with fortified oil-emulsion contact herbicides. Bot. Gaz. 110: 148-154. Sept. 1948. 450 B652
- 9544 DANIELSON, L. L. Pre-planting soil treatments with 2,4-D for weed control in spinach. Amer. Soc. Hort. Sci. Proc. 51: 533-535. June 1948. 81 So12
- 9545 DANIELSON, L. L. Weed control, horticulture. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 35-37. 1948. 4 C82
- 9546 DAUGUET, P. Un nouvel auxiliaire de l'agriculture: le "2,4-D." Cahiers des Ingén. Agron. 3(33): 16-28. Mar. 1948. 14 C112
- 9547 DEARBORN, C. H., SWEET, R. D., and HAVIS, J. R. Weeding sweet corn with 2,4-D: effects of timing, rates and varieties. Amer. Soc. Hort. Sci. Proc. 51: 536-540. June 1948. 81 So12
- 9548 DEFRANCE, J. A. Weed-free compost and seedbeds for turf. I-III. R. I. Agr. Expt. Sta. Misc. P. 31, rev., 15 p. May 1948. 100 R34M  
I. A method of destroying weed seeds in compost; II. A suggested method for field preparation of sterilized compost; III. Preparation of weed-free seedbeds for turf.
- 9549 ERNST, E. F. The Klamath weed. Yosemite Nature Notes 27: 116-117. Oct. 1948. 409.6 Y8
- 9550 FREDERIKSEN, P. S., and JACOBSEN, H. Experiments with chemical weed control of flax. (In Danish.) Lin. Dansk-Svensk Hørtidsskr. 1: 61-72. Apr. 1947. 73.18 L63
- 9551 GIUA, M. Giantfennel and livestock poisoning. (In Italian.) Agr. Sarda 25: 207-208. July 1948. 16 Ag825
- 9552 GREZ, A. Sorprendentes resultados obtenidos con el "herbicida" 2,4 D en el cultivo del maíz. Campesino [Santiago] 80(9): 49-51. Sept. 1948. 9.3 So12
- 9553 GUZMAN, V. L. Estudios con herbicidas. Lima, Peru. Estac. Expt. Agr. de La Molina. Divulg. Agr. 8, 6 p. Aug. 1947. 102.5 L622D
- 9554 HAGEN, C. Madison County wheat growers obtain fine results with 2, 4-D. Idaho Farmer 66: 749. Oct. 21, 1948. 6 G282  
Weed control.
- 9555 HAMBLYN, C. J. Sulphuric acid controls weeds in onions. New Zeal. J. Agr. 77: 281-283. Sept. 1948. 23 N48J
- 9556 HARVEY, W. A. Control of weeds on fence lines and ditch banks. Spreckels Sugar Beet B. 12: 43, 46. Nov./Dec. 1948. 66.8 Sp7
- 9557 HASSEWER, W. L. Les champignons mortels et dangereux. Courrier Hort. 10: 609-610. Oct. 1948. 80 C834
- 9558 HAVIS, J. R. The herbicidal properties of certain pure petroleum hydrocarbons (preliminary report) Amer. Soc. Hort. Sci. Proc. 51: 545-546. June 1948. 81 So12
- 9559 HEDLIN, W. A. Chemical weed control in onions (preliminary paper). Amer. Soc. Hort. Sci. Proc. 51: 501-504. June 1948. 81 So12
- 9560 HELM, G. W. V. D. The Shell weed control preparation and a warning. (In Dutch.) Groenten en Fruit 4: 220. Oct. 14, 1948. 80 G89
- 9561 HIGGINS, F. H. 10-sack yield increase from 2,4-D. Rice J. 51(11): 28. Nov. 1948. 59 R36
- 9562 HILLI, A. Results of experiments in weed control. (In Swedish.) Prakt. Försöksverks. 5: 4-5. Jan. 1948. 20 P88
- 9563 HITCHCOCK, A. E., and ZIMMERMAN, P. W. Effect of concentration of 2,4-D, rate of application, and respraying, on killing Japanese honeysuckle. Amer. Soc. Hort. Sci. Proc. 51: 668-669. June 1948. 81 So12
- 9564 HOFSTEN, C. G. VON. Experiments in weed control. (In Swedish.) Försök och Forskning 5: 33-34. May 1948. 11 F77
- 9565 HOGG, P. G. Weed control for the Delta. Cotton Gin & Oil Mill Press 49(23): 10, 22. Nov. 13, 1948. 304.8 C822
- 9566 JENSEN, E. S. Appeal of an amateur. (In Danish.) Haven 48: 176-177. Nov. 1948. 80 H29  
Weed control.
- 9567 JENSEN, J. N. Cuscuta, a troublesome weed. (In Danish.) Gart. Tid. 64: 87. Feb. 18, 1948. 80 G192
- 9568 KEPHART, L. W. Need for clearing-house in weed control field. Agr. Chem. 3(11): 21, 66 B. Nov. 1948. 381 Ag8
- 9569 KEPHART, L. W. New methods of weed control in vegetables. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 58-69. 1948. 81 V52
- 9570 KLINGMAN, G. C. Will chemical weeding replace cultivation? What's New in Crops & Soils 1: 8-9. Oct. 1948. 6 W55
- 9571 KNOWLES, F. L. Ten years on a "black-berry" farm. New Zeal. Dairy Exporter 24(4): 4-5, 74-75. Oct. 1948. 44.8 N484
- 9572 KOLK, H. Growth of weed seeds. (In Swedish.) Försök och Forskning 5: 39-40. May 1948. 11 F77
- 9573 LACHMAN, W. H. Some studies using isopropyl N-phenyl carbamate as a selective herbicide. Amer. Soc. Hort. Sci. Proc. 51: 541-544. Ref. June 1948. 81 So12
- 9574 LARSON, J. D. Are weedicides wise? Nature Mag. 41: 538-540, 549. Dec. 1948. 409.6 N214
- 9575 LEONARD, O. A., ARLE, H. F., and HARRIS, V. C. Chemical weed control experiments in Mississippi. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 37-39. 1948. 4 C82
- 9576 LEONARD, O. A. Research developing new information on how to use chemicals in weed control. Miss. Farm Res. [Miss. Sta.] 11(11): 1, 8. Nov. 1948. 100 M69M
- 9577 LEONARD, O. A. Weed control in row crops. Cotton Gin & Oil Mill Press 49(25): 36-37. Dec. 11, 1948. 304.8 C822
- 9578 LOHWAG, K. Mercurialis annua, ein giftiges unkraut. Wiener Tierärztl. Monatsschr. 34: 665-669. Ref. Nov. 1947. 41 T345
- 9579 MANTELLI, G. B. Chemical or mechanical solution? (In Italian.) Macch. e Motori Agr. 6: 191-192. May 1948. 58.8 M13  
Weed control.
- 9580 MEADLY, G. R. W. Recent trials with selective weed-killers. West. Austral. Dept. Agr. Leaflet 884, 9 p. 1947. 23 W52B
- 9581 MILLER, M. D. Sudangrass poisoning of livestock minimized by good management practices. Calif. Agr. [Calif. Sta.] 2(11): 13. Nov. 1948. 100 C12Cag



- 9582 MIRNIG, E. Unkrautbekämpfung auf wiesen und weiden. *Karntner Bauer* 98: 207-211, 225-226. July 1-15, 1948. 19 K14
- 9583 NAMBIAR, K. K., and SAHADEVAN, P. C. The sensitive plant [*Mimosa pudica*] as weed and its control. *Madras Agr. J.* 35: 233-235. Sept. 1948. 22 M262
- 9584 NYHLÉN, Å. Hormone derivatives for weed control of garden cultures. (In Swedish.) *Försök och Forskning* 4: 43-44. Mar. 1947. 11 F77
- 9585 ORCHARD, H. E. Weeds of South Australia; three-cornered jack (*Emex australis*, Steinh.). *So Austral. Dept. Agr. J.* 52: 11-14. Aug. 1948. 23 So84
- 9586 PARODI, L. R. Por que deben destruirse las malezas. *Bolsa de Cereales, Buenos Aires. Rev.* 35 (1868): 38, 41-44. Oct. 14, 1948. 287 B866
- 9587 PAT, Y. Experiments with dichloro-phenoxy-acetic acid as a herbicide. *Palestine J. Bot., Rehovot Ser.* 6: 55-57. Dec. 1947. 450 P172
- 9588 PERRIN, E. E. Kill brush by winter spraying. *Trees [Cleveland]* 9: 9. Nov./Dec. 1948. 99.8 W52
- 9589 ROMANNE-JAMES, MRS. C. In praise of another weed. *Guild Gard.* 23(11): 11. Nov. 1948. 80 G94
- Uses of the dandelion.
- 9590 RYKER, T. C. Preliminary tests with ammonium trichloroacetate as a herbicide. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 34-35. 1948. 4 C82
- 9591 RYKER, T. C. Rice weed control studies with 2,4-D in 1947. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 33-34. 1948. 4 C82
- 9592 SAXBY, S. H. Winged thistle [*Carduus pycnocephalus*] in Central Otago. *New Zeal. J. Agr.* 77: 257-258. Sept. 1948. 23 N48J
- 9593 SELL, O. E. Wild garlic and bitterweed control in permanent pastures. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 27-28. 1948. 4 C82
- 9594 SHERWOOD, S. F. Control of alligatorweed by 2,4-D aids sugarcane production. *Sugar J.* 11(7): 11. Dec. 1948. 65.8 Su391
- 9595 SINGH, U. B. Dodder or love vine on berseem in U. P. *Cur. Sci.* 17: 267-268. Sept. 1948. 475 Sci23
- 9596 STUMMEYER, W. Wuchsstoffe zur unkrautbekämpfung im getreide. *Neue Mitt. f. die Landw.* 3: 345-346. Oct. 25, 1948. 18 N39
- 9597 SWEET, R. D., and HAVIS, J. R. Pre- and post-emergence chemical weeding of several vegetables. *Amer. Soc. Hort. Sci. Proc.* 51: 509-514. June 1948. 81 So12
- 9598 TAYLOR, C. C. Weed control. *Indian Farming* 9: 249. June 1948. 22 In283
- 9599 TOPI, M. Weeds and the use of Weedone. (In Italian.) *Glor. di Agr.* 58: 320. Nov. 14, 1948. 16 It1G
- 9600 VEACO, R. G. Chemical weed control. *Spreckels Sugar Beet B.* 12: 42, 45-46. Nov./Dec. 1948. 66.8 Sp7
- 9601 VIDME, T. Hormone substances in the service of plant culture. (In Norwegian.) *Norsk Hageselskap. Minneliste for Hagedyrkere* 1948: 7-9. 86 N81
- Chiefly on weed control.
- 9602 WARREN, C. H. The insatiable weed. *Nature Lover* 5: 360-362. Aug. 1948. 410 N218
- 9603 WARREN, G. F., and HERNANDEZ, T. P. Weed control in certain vegetable crops with soil applications of 2,4-D. *Amer. Soc. Hort. Sci. Proc.* 51: 515-525. June 1948. 81 So12
- 9604 WILD, H. A suggestion for the control of tobacco witchweed (*Striga gesnerioides* (Willd.) Vatke) by leguminous trap-crops. *Rhodesia Agr. J.* 45: 208-215. May/June 1948. 24 R34
- 9605 WOLF, D. E., ENGLE, R. E., and AHLGREN, G. H. Chemical crabgrass control. *Agr. Chem.* 3(11): 25-27, 73. Nov. 1948. 381 Ag8
- 9606 WOOD, H. E., and OLSON, P. J. 2,4-D and its use. *Manitoba. Dept. Agr. and Immigr. P.* 216, 15 p. Jan. 1948. 275.29 M313
- 9607 ZAHNLEY, J. W. Recent developments in weed control with chemicals. *Kans. State Hort. Soc. Bien. Rpt.* 49: 106-109. 1948. 81 K13
- MISCELLANEOUS ECONOMIC PLANTS  
(Drug, Dye, Rubber, Etc.)
- 9608 AGGARWAL, J. S., and others. Chemical examination of the seeds of *Mallotus philippinensis*, Muell. *Agr. I. Analysis of drying oil & seed cake. J. Sci. and Indus. Res.* 7B: 136-138. Sept. 1948. 475 J82
- S. S. Bhatnagar, P. Narain, and Karimullah, joint authors.
- 9609 AHMAD, G. U. D., and THIND, A. S. Cultivation of rosha grass [*Cymbopogon martini*] in the Punjab. *Indian Farming* 9: 184-186. May 1948. 22 In283
- 9610 ALBERTS, H. W. La quinoa (*Chenopodium quinoa*). *Peru. Com. Nac. de Protec. a la Nat. B.* 5(1): 22-24. 1948. 279.9 P43
- 9611 ANGELL, G. N. Growers of Oregon's famous holly send Christmas cheer to the far-flung homes of all America. *Oreg. Farmer* 71: 899, 912. Dec. 16, 1948. 6 Or32
- The industry in Oregon.
- 9612 ANTUNES FILHO, H. Coffee experiments in Kenya. (In Portuguese.) *São Paulo. Supt. dos Serv. do Café. B.* 23: 86-90. Feb. 1948. 68.29 Sa63
- 9613 ANZALAZ, F. A. La region económica del olivo. *Chacra* 19(217): 70, 102. Nov. 1948. 9 C34
- 9614 ARANT, W. L. The production of fireweed honey. *Gleanings Bee Cult.* 76: 740-743. Dec. 1948. 424.8 G47
- 9615 BALDACCI, M. Oil-bearing herbaceous crops in Italy, their distribution and technical instructions for them. (In Italian.) *Riv. Ital. Essenze-Profumi-Piante Off.-Olii Veg.-Saponi* 30: 361-365. Sept. 15, 1948. 308.8 R52
- 9616 BANAL, R. Galega officinalis L. (In Italian.) *Ital. Agr.* 85: 599-600. Oct. 1948. 16 It1
- 9617 BERNER, L. A propos des "herbes de la Saint Jean." *Soc. Linn. de Lyon. B. Mens.* 16: 126-127. June 1947. 505 L992B
- 9618 BRAZIL, O. V. On the toxicity of the *Strychnos* of Amazonas. Examination of extracts prepared with some species from the Hylea. (In Portuguese.) *Inst. Vital Brazil. B.* 5: 169-174. Apr. 1948. 448.9 In75B
- French summary.
- 9619 BRENNER, L. G. The golden seal [*Hydrastis canadensis*]. *Mo. Bot. Gard. B.* 36: 156. Nov. 1948. 451 M69B
- 9620 BREUER, A. Aromatic planting at Mills College. *Herb Grower Mag.* 2: 119-120. Dec. 1948. 80 Am316
- 9621 CABANÉ, J. Las Valisnerias. *Nuestros Amigos* 5(49): 21-22. June 1948. 48.8 N88
- 9622 CALLENFELS, W. VAN S. Tea cultivation in Ceylon. (In Dutch.) *Bergcultures* 17: 67, 69, 71, 73. Oct. 1, 1948. 22.5 B45
- 9623 CHANDLER, S. E. The origin and early history of the production of pyrethrum in Kenya. *Pyrethrum Post* 1: 10-11. July 1948. 421 P99
- 9624 COZZO, D. Conveniencia de utilizar la sección tangencial en estudios anatómicos de leños medicinales. *Cien. e Invest.* 4: 345-346. Ref. Aug. 1948. 475 C482
- 9625 DUPIN. Pulpe et tourteau d'argan. *Terre Maroc.* 20: 247-249. Sept. 1948. 24 T44
- Argania sideroxylon.
- 9626 FERWERDA, F. P. Notes on the coffee plant breeding activities in the Netherlands Indies during the last years before the war. (In Dutch.) *Landbouwk. Tijdschr.* 59: 358-363. Ref. Aug./Sept. 1947. 105.2 Or3
- 9627 FORSTER, J. L. Sweet lavender. *New Zeal. Homes & Gard.* 18(3): 16-17. June 1948. 80 N4823
- 9628 GATTEFOSSE, R. M. La lavande française. *Plante Officinali* 3(7): 1-4. July 1948. 71.8 P57
- Italian summary, p. 5-6.
- 9629 HARRINGTON, L. B. C. man falls into soft job selling moss. *Woodland World* 1(5): 3. Nov. 1948. 99.8 W853
- 9630 HOLLAND, B. R., JOHNSON, P. R., and SORRELS, J. H. Essential oil production in Texas. II. Sweet goldenrod. *Tex. Engin. Expt. Sta. B.* 107, 22 p. Sept. 1, 1948. 290.9 T31
- 9631 INDIAN TEA ASSOCIATION. Tocklai Experimental Station, annual report, 1947. Tocklai, 1948? 36 p. 68.19 T56



- 9632 KELBLY, H. G. *Psyllium seed today*. Drug and Cosmetic Indus. 63: 602-603. Nov. 1948. 396.8 D842
- 9633 KESEL, H. Was wussten die alten von unseren heilkräutern? Natur u. Nahr. 2(17/18): 22-23. (To be cont.) Sept. 1948. 80 N218
- 9634 KLOSA, J. Verwertung der eicheln. Natur u. Nahr. Ausg. B 2(17/18): 84-85. Sept. 1948. 80 N218B
- 9635 KOZO-POLJANSKIĬ, B. M. A valuable plant. (In Russian.) Priroda 37(4): 55-58. Apr. 1948. 410 P933
- Economic uses of *Cyperus esculentus* in U. S. S. R.
- 9636 LAPIERE, C., and COPPEE, G. Un curare d'une Erythrine africaine. Experientia 4: 387-388. Oct. 15, 1948. 475 Ex7
- English summary.
- 9637 LAPIERRE, G. Opportunity for an agrarian drug plant study center. (In Italian.) Pianta Officinale 3(8): 5-6. Aug. 1948. 71.8 P57
- With a note by A. Baistocchi.
- 9638 LAUMONT, P. La culture de la camomille en Algérie. Rev. Agr. de l'Afrique du Nord 46: 481-482. Sept. 24, 1948. 80 R326
- 9639 LEGENDRE, G. Les plantes médicinales: les vermifuges. J. de la France Agr. 4: 946. Oct. 15/22, 1948. 14 J829
- 9640 LIESE, J. Zur diesjährigen eichen- und buchenmast. Natur u. Nahr. 2(17/18): 10-11. Sept. 1948. 80 N218
- 9641 LIESE, J. Zur kommenden bucheckernernte. Forstw., Holzw. 2: 267-268. Sept. 1, 1948. 99.8 F7793
- 9642 MAAS, J. G. J. A. Selection of Hevea and its effect upon the yield of estate plantations. (In Dutch.) Arch. v. de Rubbercult. 26: 19-114. Ref. Apr. 1948. 78.8 Ar2
- English summary.
- 9643 MARX, H. Über die bedeutung der bucheckern und ihrer pressrückstände. Natur u. Nahr. Ausg. B 2(17/18): 85-87. Sept. 1948. 80 N218B
- 9644 MELVILLE, C. The origin of Johore ipeca-cuanha. Pharm. J. [London] 161: 300. Oct. 30, 1948. 396.8 P49
- 9645 MENON, H. B. El cocotero "enano" y sus grandes posibilidades en la América Tropical. Rev. de Agr., Com. e Indus. [Panama] 7(85): 28-38. Ref. Sept. 1948. 8 R3291
- 9646 MERCURI, S. Olive culture and herbaceous oil crops in the Marches. (In Italian.) Olearia 2: 587-591. Aug./Sept. 1948. 307.8 OL2
- 9647 MERRILL, S., JR. Breakage of tung trees by hurricane winds in relation to variety, pruning method, and crop. Amer. Soc. Hort. Sci. Proc. 51: 145-151. June 1948. 81 So12
- 9648 MOLFINO, J. F. Ranunculaceas medicinales. Chacra 18(216): 74-75, 100. Oct. 1948. 9 C34
- 9649 MOLFINO, J. F. Los sauces y alamos medicinales. Chacra 1(217): 74-75. Nov. 1948. 9 C34
- 9650 NAJJAR, H. Olive harvesting and oil pressing. (In Arabic.) Syria. Ext. Serv. C. 11, 12 p. Oct. 1947. 22.5 Sy8
- English summary.
- 9651 NAJJAR, H. Olives: how to make them bear annually. (In Arabic.) Syria. Ext. Serv. C. 15, 17 p. Jan. 1948. 22.5 Sy8
- English summary.
- 9652 NAJJAR, H. Pruning the olive tree. (In Arabic.) Syria. Ext. Serv. C. 14, 15 p. Dec. 1947. 22.5 Sy8
- English summary.
- 9653 NEFF, M. S., and PAINTER, J. H. Factors affecting branching and growth of newly transplanted tung trees trained to vase form. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 124. 1948. 4 C82
- 9654 ORTIZ GARMENDIA, J. Flora chilena: el guayacan, especie digna de racional aprovechamiento. Campesino [Santiago] 80(5): 61, 63. May 1948. 9.3 So12
- Portieria higrometrica.
- 9655 OSTENDORF, F. W. Cacao - plant material. 1-2. (In Dutch.) Bergcultures 17: 2-5, 28-29, 31. Ref. Aug. 16-Sept. 1, 1948. 22.5 B45
- Propagation by budding and cuttings.
- 9656 OSTENDORF, F. W. Two experiments with double-budded Hevea trees. (In Dutch.) Arch. v. de Rubbercult. 26: 1-18. Apr. 1948. 78.8 Ar2
- English summary.
- 9657 PANASIUK, M. Technical progress in the production of economic plants. (In Russian.) SoSialist. Sel'sk. Khoz. 19(5): 1-10. May 1948. 281.8 So73
- Research, mechanization and cultural methods.
- 9658 PECKER, H. Au sujet de la jusquiame d'Égypte [*Hyoscyamus muticus*]. Ann. Pharm. Franç. 6: 222-225. Apr. 1948. 396.8 An7
- 9659 PELLETT, F. C. Purple thistle *Eryngium leavenworthii* for honey. Amer. Bee J. 88: 490. Oct. 1948. 424.8 Am3
- 9660 PERRET, J. Le D. D. T. peut-il être employé sur les oliviers? Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc. 18: 342-343. Nov. 1948. 80 F9482
- 9661 POLITIS, H. Herbs in autumn. Golden Gard. 13: 10. Oct. 1948. 80 G56
- 9662 PRILLWITZ, P. M. Rubber culture and rubber regulations before and after the war. (In Dutch.) Landbouwk. Tijdschr. 59: 363-370. Aug./Sept. 1947. 105.2 Or3
- 9663 QAZILBASH, N. A. Some further observations on Indian santonica. Quart. J. Pharm. & Pharmacol. 21: 320-333. Ref. July/Sept. 1948. 396.8 Q2
- Species of *Artemesia*.
- 9664 RATERA, E. L. Plantas espontaneas en la Capital Federal [Buenos Aires] y sus alrededores empleadas en medicina popular. Buenos Aires. Cent. de Estud. de Med. Vet. Rev. 17(25): 43-61. Ref. Jan./Mar. 1948. 41.9 B86
- 9665 REID, J. Some contributions to the history of esparto. World's Paper Trade Rev. 130(Sup.): i-viii. Oct. 21, 1948. 307.8 W89
- Also in Paper Maker and Brit. Paper Trade J. 116: 265, 267-270, 261. Nov. 1948. 302.8 P1922
- 9666 REINHOLD, J. *Physalis edulis*. Thür. Gartenbau 1948: 156. Sept. 1948. 80 T42
- 9667 RIERA, F. J. Necesidad y urgencia de la poda del olivo. Cám. Ofic. Sind. Agr. de Barcelona. B. 3: 79-81. Apr. 1948. 15 C14
- 9668 ROHDE, E. S. Harvesting and drying herbs. My Gard. 37: 511-515. Nov. 1948. 80 M995
- 9669 RUIZ ALARCO, F. E. Tratamiento pregerminativo de la semilla del "*Prosopis juliflora*." Peru. Com. Nac. de Protec. a la Nat. B. 4: 3-12. 1947. 279.9 P43
- 9670 SAYED, I. A. The milk-tree or the cow-tree (*Brosimum galactodendron*) of the Caracas, Venezuela. Indian Farming 9: 246-248. June 1948. 22 In283
- 9671 SCHOONNEVELDT, J. C. VAN. Cassava as a catchcrop with young Hevea. (In Dutch.) Bergcultures 17: 6-8. Aug. 16, 1948. 22.5 B45
- English summary.
- 9672 SCOTTISH SEAWEED RESEARCH ASSOCIATION. Annual report, 1947. Musselburgh, 1948. 34 p. 451 Sco8
- 9673 SHKVAR, I. A. Vysokie urozhai kok-sagzya [High yields of kok-saghyz]. Moskva, Sel'khozgiz, 1948. 71 p. (Peredovoi Opyt v Sel'skom Khozjaistve) 78 Sh6
- 9674 SINZ, K. Heilkräutersammeln als schul- und klassengemeinschaftswerk. Natur u. Nahr. Ausg. B 2(13/14): 70. July 1948. 80 N218B
- 9675 TAMM, C. O. Observations on reproduction and survival of some perennial herbs. Bot. Notiser 1948: 305-321. Ref. 450 B656
- 9676 TATTERSFIELD, F. Early experiments on pyrethrum growing in England. Pyrethrum Post 1: 3-8. July 1948. 421 P99
- 9677 TOCKLAI EXPERIMENTAL STATION. Proceedings of the sixth annual conference, held at Tocklai on the 9th, 10th and 11th February, 1948. Tocklai, 1948. 92 p. 68.19 T562
- App. 1, Past, present and future work on plant protection by E. Hainsworth; App. 2, Field experiments, by C. J. Harrison and N. M. Macgregor; App. 3, Tea breeding and botanical programme 1948, by W. Wight; App. 4, Biochemical work on tea, by E. A. H. Roberts.
- 9678 UTKIN, L. A., and LEVANIDOV, L. I. A. Use of *Pulmonaria mollissima* in folk medicine. (In Russian.) Priroda 37(8): 66-67. Aug. 1948. 410 P933
- 9679 WANG, C. Y. Pharmacognosial studies on chang shan [*Dichroa febrifuga*]. Chin. Assoc. Adv. Sci. Trans. 9: 9-13. Oct. 1947. 513 Sh13
- 9680 WEST AFRICAN CACAO RESEARCH INSTITUTE. Annual report, 1946/47. London, 1948. 70 p. 68.39 T12A



- 9681 YANG, S. T. The identification of Chinese antimalarial plants. *Amer. Pharm. Assoc. J. Sci. ed.* 37: 458-460. Ref. Nov. 1948. 396.9 Am33J
- 9682 YANKOVITCH, L., and BERTHELOT, P. Enracinement de l'olivier et des autres arbres fruitiers dans le sud de la Tunisie. *Acad. d'Agr. de France. Compt. Rend.* 34: 774-776. June 30/July 7, 1948. 14 P215Bc
- 9683 YIN, H. C., and LIU, C. H. Experiments on the rooting of tung tree cuttings. *Amer. J. Bot.* 35: 540-542. Ref. Oct. 1948. 450 Am36
- 9684 YOUNGKEN, H. W., and HASSAN, W. E., JR. Pharmacognostical and chemical studies of Indian belladonna, *Atropa acuminata* Royle ex Lindley. *Amer. Pharm. Assoc. J. Sci. ed.* 37: 450-458. Ref. Nov. 1948. 396.9 Am33J

## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 9685 BARBUT, and BERTHAULT. L'Algérie agricole. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 285-316. 1948. 56.09 C766
- 9686 CONFÉRENCE INTERNATIONALE DE PÉDOLOGIE MÉDITERRANÉENNE, 1947. Comptes rendus de la Conférence de Pédologie Méditerranéenne, Alger-Montpellier, 1er-20 mai, 1947. Paris? 1947. 510 p. 56.09 C766
- 9687 EDELMAN, C. H. Les recherches pédologiques des terres inondées aux Pays-Bas. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 115-118. 1948. 56.09 C766
- 9688 FRANC DE FERRIÈRE, P. J. J., and ROL, R. C. Excursion de Beni Ounif des 20, 21, 22 mai 1947. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 498-503. 1948. 56.09 C766
- 9689 GRILLOT, G. Les étapes de la pédologie marocaine. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 377-379. 1948. 56.09 C766
- 9690 JOFFE, J. S. A pedologic approach in solving some soil productivity problems. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 226-247. 1948. 56.09 C766
- 9691 JOHNSON, A. W. A review of some of the more recent developments in soils research and their practical significance. *Kans. Engin. Expt. Sta. B.* 56: 82-103. Manhattan, 1948. 290.9 K132
- 9692 KELLOGG, C. E. Remarks at closing sessions of Mediterranean Conference in Oran on May 1947. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 481-483. 1948. 56.09 C766
- 9693 KÖHN, M. Wissenwertes vom boden. *Landpost* 4(9): 4-5. May 10, 1948. 18 L2329
- 9694 KRUMIN'SH, K. Soil science situation in Latvia. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 77-83. 1948. 56.9 P44
- 9695 LIPPI-BONCAMBI, C. Gli indirizzi moderni della pedologia applicati allo studio dei terreni agrari dell'Alta Valle del Tevere [The modern orientation of pedology applied to the study of agricultural land in the Alta Valle del Tevere]. Perugia, Donnini, 1947. 32 p. 56.24
- 9696 MIÈGE, E. Les études pédologiques au Maroc. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 380-388. 1948. 56.09 C766
- 9697 MONTARLOT, G. Les sols de l'Hérault. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 170-197. Ref. 1948. 56.09 C766
- 9698 PALLMANN, H. Pédologie et phytosociologie. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 3-36. 1948. 56.09 C766
- 9699 VILLAR, H. DEL. C. R. des travaux pédologiques méditerranéens effectués depuis le Congrès d'Oxford (1935). *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 317-319. 1948. 56.09 C766
- 9701 BHAUMIK, H. D. Soil moisture tension and microbiological activity. *Iowa State Col. J. Sci.* 23: 13-15. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 9702 CHANDNANI, J. J. Studies of movement of water and salts in soils at the Agricultural Research Station, Sakrand. I-II. *Indian J. Agr. Sci.* 17: 175-185. June 1947. 22 Ag831
- 9703 CLEVERINGA, O. J. Observations on the effect of soil treatment on the structure of cultivated land. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 358-368. Aug. 1948. 105.2 Or3
- 9704 DELLENBACH, P. Des effets de l'irrigation sur la perméabilité des sols irrigués par le Syndicat du Canal d'Irrigation de Canet (Hérault). *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 267-268. 1948. 56.09 C766
- 9705 GRILLOT, G., and BRYSSINE, G. Contribution à l'étude de l'humidité des sols du Maroc. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 420-433. 1948. 56.09 C766
- 9706 GROKHOVSKI, M. I. Importance of soil structure fractions and their effect on yields. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirjazeva. Dok.* 7: 77-83. 1948. 20 M857
- 9707 HOOGHOUT, S. B. The mutual binding of mineral particles in relation to the structure of the soil. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 338-349. Aug. 1948. 105.2 Or3  
English summary.
- 9708 HUA, H. M. The significance of common ion effect on the formation of soil aggregates. (In Chinese.) *Agr. Assoc. China. J.* 185: 73-88. Ref. Nov. 1947. 22.5 Ag862
- 9709 HUDIG, J. Importance of organic matter for soil structure. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 349-357. Aug. 1948. 105.2 Or3
- 9710 HUIZINGA, T. K. Soil structure. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 317-321. Aug. 1948. 105.2 Or3
- 9711 PEERLKAMP, P. K. The evaluation of soil structure. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 321-338. Ref. Aug. 1948. 105.2 Or3  
English summary.
- 9712 ROSEAU, H., and BATS, J. Analyse physique des terres calcaires. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 87-92. 1948. 56.09 C766
- 9713 ROSEAU, H. Sur la circulation de l'eau dans le sol: observations en cas lysimétriques. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 389-404. 1948. 56.09 C766
- 9714 SCHOFIELD, R. K. The measurement of evaporation. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 85-86. 1948. 56.09 C766
- 9715 TERLIKOWSKI, F., SOZANSKI, S., and ZEMŁA, L. A field method of rapid moisture determination in soils. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 1-11. Ref. 1948. 20.5 R59  
English summary.

## Soil Chemistry and Mineralogy

- 9716 BEERS, Z. The use of soil sampling tubes. *Better Crops with Plant Food* 32(9): 19-20, 39-40. Nov. 1948. 6 B46
- 9717 BOLAS, B. D., and PORTSMOUTH, G. B. Effect of carbon dioxide on availability of manganese in soil producing manganese deficiency. *Nature [London]* 162: 737. Nov. 6, 1948. 472 N21
- 9718 BROADBENT, F. E. Some factors affecting nitrogen transformations and organic matter decomposition in soils. *Iowa State Col. J. Sci.* 23: 16-17. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 9719 BRYSSINE, G. Contribution à l'étude des sols de l'extrême sud marocain. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 347-354. 1948. 56.09 C766
- 9720 CHAMINADE, R. Influence de l'humus sur l'assimilabilité des engrais phosphatés dans un sol latéritique. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 222-225. 1948. 56.09 C766
- 9721 CHOINIERE, L. Sur une mise au point d'une nouvelle méthode pour l'extraction des bases échangeables des sols acides et des sols calcaires. *Sci. Agr.* 28: 493-500. Nov. 1948. 7 Sci2  
English summary.

## Soil Physics

- 9700 BERGER, G. The structure of montmorillonite. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 119-122. 1948. 56.09 C766



9722 DAS, S. The effect of manuring and cropping on the vertical distribution of carbonates in Pusa calcareous soils. *Indian J. Agr. Sci.* 17: 14-24. Feb. 1947. 22 Ag831

9723 EDELMAN, C. H., and SCHUFFELEN, A. C. On the origin of some clay minerals in soils. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 109-114. 1948. 56.09 C766

9724 EVANS, C. E., and ATTOE, O. J. Potassium-supplying power of virgin and cropped soils. *Soil Sci.* 66: 323-334. Ref. Nov. 1948. 56.8 So3

9725 FRANC DE FERRIÈRE, P. J. J. Carte schématique des pH du sol de la France. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 164-169. 1948. 56.09 C766

9726 HOPKINS, D. P. Changes in agricultural chemistry. *Estate Mag.* 48: 375-377. Nov. 1948. 10 Es8

Soil analysis.

9727 JEFFRIES, C. D., and ANTHONY, R. D. A mineralogical analysis of some Pennsylvania orchard soils by means of the X-ray spectrometer. *Amer. Soc. Hort. Sci. Proc.* 51: 271-286. June 1948. 81 So12

9728 JÚLIUSSON, F. Soil analysis and fertilizer maps. (In Icelandic.) *Freyr* 43: 90-94. Mar. 1948. 11 F89

9729 KAURICHEV, I. S. Changing the solubility of phosphates in the alluvial horizon by efflorescence. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirjazeva. Dok.* 7: 84-88. 1948. 20 M857

9730 MCVICAR, M. H. Progress in agricultural research with radioactive materials. *Fert. Rev.* 23(6): 3-5. Nov./Dec. 1948. 57.8 F414

9731 MIKKELSEN, D. S., TOTH, S. J., and PRINCE, A. L. Determination of magnesium by thiazol yellow method. *Soil Sci.* 66: 385-397. Nov. 1948. 56.8 So3

9732 MILES, I. E., and VICK, R. Soil testing can help in the liming and fertilizer practices in watershed and unit-farm demonstrations. (Abs.) *Assoc. South Agr. Workers. Proc.* 45: 89. 1948. 4 C82

9733 MINKEVICH, I., and KHODZHAEV, T. To prevent soil salinization on the Pakhta-Aral State Farm. (In Russian.) *Sovkhoz. Gaz.* 2158: 3. Aug. 1948. 20 So86

9734 MUSIEROWICZ, A., and RUT, W. On the boron content in soils. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 71-79. 1948. 20.5 R59  
English summary.

9735 NEWMAN, A. S., DEROSE, H. R., and DERIGO, H. T. Persistence of isopropyl N-phenyl carbamate in soils. *Soil Sci.* 66: 393-397. Nov. 1948. 56.8 So3

9736 PENDLETON, R. L. Mediterranean red soils. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 157-160. 1948. 56.09 C766

9737 PRINCIPI, P. Agricultural soils of Arezzo and Valdichiana. (In Italian.) *Humus* 4(3): 18-24. Ref. Mar. 1948. 16 H88

9738 RAMOS, B. H. M. Determination of phosphorus which can be assimilated in the soil. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7: 101-108. Ref. Apr./June 1948. 9.2 Ag892

9739 ROSEAU, H. Sur le pouvoir décalcarisant de certains sels dans le sol. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 338-341. 1948. 56.09 C766

9740 SCHALLER, F. W. Boron content and requirements of West Virginia soils. *Soil Sci.* 66: 335-346. Ref. Nov. 1948. 56.8 So3

9741 SCHOLLENBERGER, C. J. Determining total replaceable bases in soils. *Anal. Chem.* 20: 1121. Nov. 1948. 381 J825A

9742 SMITH, V. T. An evaluation of the carbon dioxide method of determining available phosphoric acid in high lime soils. *Amer. Soc. Agron. J.* 40: 1045-1046. Nov. 1948. 4 Am34P

9743 STANFORD, G. Potassium fixation in soils as affected by type of clay mineral, moisture conditions, and concentration of other ions. *Iowa State Cgl. J. Sci.* 23: 80-82. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.

9744 STRZEMIENSKI, K. Soil phosphate uptake as influenced by phosphatic fertilizer. *Nature [London]* 162: 932. Dec. 11, 1948. 472 N21

9745 WALLIHAN, E. F. Your crop vs. phosphorus. *Citrus Leaves* 28(12): 22, 32. Dec. 1948. 80 C492  
Use of isotopes.

9746 WIKLANDER, L., and GIESEKING, J. E. Exchangeability of adsorbed cations as influenced by the degree of saturation and the nature of the complementary ions with special reference to trace concentrations. *Soil Sci.* 66: 377-384. Ref. Nov. 1948. 56.8 So3

9747 WILDE, J. DE., and LAAN, P. A. VAN DER. Results of very simple field experiments with phosphate and potash on river clay soils. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 284-293. July 1948. 105.2 Or3

9748 YERKES, A. P. Soil analysis for every farm. *Chemurg. Digest* 7(11): 4-8. Nov. 1948. 381 N213Na

#### Soil Biology

9749 CHADWICK, L. C., and BRADLEY, K. An experimental study of the effects of certain earthworms on crop production. *Amer. Soc. Hort. Sci. Proc.* 51: 552-562. Ref. June 1948. 81 So12

9750 CONN, H. J. The most abundant groups of bacteria in soil. *Bact. Rev.* 12: 257-273. Ref. Sept. 1948. 448.3 B13

9751 EYSTER, W. H. Earthworms, living subsoilers and composters. *Organic Gard.* 13(6): 37-40. Dec. 1948. 56.8 Or3

9752 GROSSBARD, E. A new approach to disease control. III. The production of antibiotic substances in the soil. *Gard. Illus.* 65: 211. Nov. 1948. 80 G169

9753 KATZNELSON, H., LOCHHEAD, A. G., and TIMONIN, M. I. Soil microorganisms and the rhizosphere. *Bot. Rev.* 14: 543-587. Ref. Nov. 1948. 450 B6527

9754 LEONT'EV, I. F. Effect of molybdenum on nitrogen fixing anaerobes [*Clostridium butyricum*]. (In Russian.) *Priroda* 37(4): 47-48. Apr. 1948. 410 P933

9755 LINDBERG, G. On the occurrence of polyphenol oxidases in soil-inhabiting Basidiomycetes. *Physiol. Plant.* 1: 196-205. Ref. 1948. 450 P564

9756 MORRISON, R. Organics in farming; refertilization of the soil is biological, not chemical. *Farmers' Weekly [Perth]* 2(13, sup.): Oct. 7, 1948. 23 F227

9757 POCHON, J., CHALAUST, R., and TEHAN, Y. T. Inoculation d'Azotobacter dans le sol. Fixation d'azote et croissance des végétaux. *Acad. d'Agr. de France. Compt. Rend.* 791-794. June 30/July 7, 1948. 14 P215Bc

9758 SAINT-QUENTIN, M. L'agriculture pasteurienne. *Rustica* 21: 132. Mar. 14, 1948. 14 R92  
Microorganisms in soil.

9759 SALAZAR, E. Lumbricus terrestris. *Inst. de Defensa del Café de Costa Rica. Rev.* 19: 87-92. June 1948. 68.28 C82

9760 SHOOBRIDGE, H. W. Our reliance on the work of the soil life. *Tasmanian Farmer* 1948: 20-22. Sept. 1948. 23 T186

9761 SHRIKHANDE, J. G. The biological decomposition of green manures. III-IV. *Indian J. Agr. Sci.* 17: 25-33. Ref. Feb. 1947. 22 Ag831

9762 SMIT, B. Earthworms of great benefit to soil. *Farmer's Weekly [Bloemfontein]* 76: 54-55, 57. Sept. 22, 1948. 24 F225

#### Soil-Plant-Animal Relationships

9763 ALBRECHT, W. A. Nutrition and the climatic pattern of soil development. (Abs.) *Science* 108: 599. Nov. 26, 1948. 470 Sci2

9764 CARBONEL, J., and PERRIER, M. La carence phosphorique des années de guerre dans ses rapports avec la production végétale, l'hygiène animale et la santé publique. *Acad. d'Agr. de France. Compt. Rend.* 34: 821-823. June 30/July 7, 1948. 14 P215Bc

9765 FINCH, F. H. Minerals for live stock - especially for humans. *Rev. River Plate* 104(2969): 23, 26-27. Nov. 5, 1948. 286.8 R32

Soil-plant relationships.

9766 FORMAN, J. Your health comes from the soil. 1-2. *Gard. Greetings* 6(7): 5, 10; (8): 5, 9. July-Aug. 1948. 90.32 G167

9767 KANNENBERG, H. Boden—pflanze—nutztier. *Neue Mitt. f. die Landw.* 3: 392-393. Nov. 15, 1948. 18 N39

9768 OLSEN, O. B. Biodynamic agriculture. (In Danish.) *Gart. Tid.* 64: 131-132. Mar. 10, 1948. 80 G192



9769 ROWLAND, J. W. Pasture-research objectives for the semi-arid regions. *Farming So. Africa* 23: 498-503. July 1948. 24 So842

Soil-plant-animal balance.

9770 SMITH, R. W. Health and humus. *Organic Gard.* 13(6): 41-45. Dec. 1948. 56.8 Or3

9771 STAPLES, R. R. The investigation of the grassland problems of Southern Rhodesia. *Rhodesia Agr. J.* 45: 249-254. May/June 1948. 24 R34

Includes soil-plant-animal relationships.

9772 TALLARICO, G. Healthful horticulture: the vitamin factor. (In Italian.) *Gior. di Agr.* 57: 63. Mar. 16, 1947. 16 R1G

Effect of soils upon plants.

#### Soil Genesis, Formation, Classification, and Mapping

9773 ALESHIN, S. N., and ZHUPAKHINA, E. S. Classification of soils by spectrums of light absorption of alkali and oxalic soil organic matter extracts. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok.* 7: 88-93. 1948. 20 M857

9774 ARMERO, L. DE. Procedimiento para hacer el mapeo utilitario para la conservación del suelo. *Agronomía [Lima]* 12(50): 37-48. Apr./May 1947. 9.8 Ag83

9775 AUBERT, G., and others. Les sols à croute calcaire. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 330-337. 1948. 56.09 C766

H. Roseau, G. Gaucher, and L. Yankovitch, joint authors.

9776 AUBERT, G., and MAIGNIEN, R. Les sols du Sénégal au nord de la Gambie britannique. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 358-370. 1948. 56.09 C766

9777 BRAMAO, D. L. The soil map of Portugal. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 198-205. 1948. 56.09 C766

9778 CHAMINADE, R. R. Mission pédologique à Madagascar. *Cahiers des Ingén. Agron.* 2(23/26): 14-16. May/Aug. 1947. 14 C112

9779 CONDRA, G. E. Progress of fundamental surveys. *Nebr. State Irrig. Assoc. Proc.* 55: 113-123. 1947. 55.9 N27P

9780 EDELMAN, C. H. Results of soil mapping in the Netherlands. (In Dutch.) *Landbouwk. Tijdschr.* 59: 319-327. Ref. Aug./Sept. 1947. 105.2 Or3

9781 ELLIS, M. G. Saskatchewan surveys her soil. *Family Herald & Weekly Star* 79(43): 3. Oct. 27, 1948. 7 F21

9782 GAUCHER, G. Sur l'âge des sols rouges nord-africains. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 373-376. 1948. 56.09 C766

9783 GERASIMOV, I. P., LOBOVAIA, E. V., and ROZOV, N. N. Modern principles of soil cartography. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 39-50. 1948. 56.9 P44

9784 GEZE, B. Paléo-sols et sols dus à l'évolution actuelle: leur importance relative en pédologie théorique et appliquée. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 140-156. 1948. 56.09 C766

9785 GOLDSTON, E. F., DAVIS, W. A., and CROOM, C. W. Soil survey, Jackson County, North Carolina. *U. S. Bur. Plant Indus., Soils, and Agr. Engin. Soil Survey.* 1938(19), 87 p. Sept. 1948. 1 So32F

9786 GORSEHNIN, K. P. Soil map of Siberia. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 62-73. 1948. 56.9 P44

9787 HENDERSON, J. R. Florida's multi-type soils give varied crops. *Fla. Grower* 56(11): 6, 35. Nov. 1948. 80 F6622

9788 HÉNIN, S. La formation des argiles et la pédologie. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 97-108. Ref. 1948. 56.09 C766

9789 HUTTON, C. E. The morphology and genesis of prairie soils developed from Peorian loess in southwestern Iowa. *Iowa State Col. J. Sci.* 23: 44-45. Oct. 1948. 470 Io9

Abstract of thesis (Ph. D.)—Iowa State College.

9790 KALESNIK, S. V. Remarks on evolution of soils. (In Russian.) *Vsesoiuzn. Geog. Obshch. Izv.* 80: 273-277. May/June 1948. 511 L546

9791 KELLOGG, C. E. Contributions of soil survey to southern agriculture. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 84. 1948. 4 C82

9792 KELLOGG, C. E. The detailed soil survey in the United States. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 210-219. Ref. 1948. 56.09 C766

9793 KILLIAN, C. Pédologie des terres astiennes, aux environs d'Alger, et des sols rouges qui en dérivent. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 371-372. 1948. 56.09 C766

9794 KUZNETSOV, K. A. Genesis and classification of podzolized forest-steppe soils in Western Siberia. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 162-177. Ref. 1948. 56.9 P44

9795 LIVEROVSKIĬ, IŬ. A. Geography and genesis of Brown Forest soils. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 109-132. Ref. 1948. 56.9 P44

9796 MASON, D. D. Soil survey in Fairfield County. *Farm and Home Res. [Ohio Sta.]* 33: 146. Sept./Oct. 1948. 100 Oh3S

9797 MUIR, A. Some recent developments in soil survey and pedology. *Agr. Prog.* 22: 99-105. 1947. 10 Ag86

9798 MUKERJI, B. K., and AGARWAL, R. R. Studies in Gangetic alluvium of United Provinces. II. *Indian J. Agr. Sci.* 17: 1-13. Ref. Feb. 1947. 22 Ag831

9799 MUSIEROWICZ, A. Chalk redziny at the northern border of Podole. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 80-98. 1948. 20.5 R59  
English summary.

9800 NIKIFOROFF, C. C. Stony soils and their classification. *Soil Sci.* 66: 347-363. Nov. 1948. 56.8 So3

9801 NORONA, G. Definición y origen de los suelos. *Campo [Tacuba]* 16(679): 10, 12, 14, 16-19. Sept. 30, 1948. 8 C157

9802 OBRUCHEV, V. A. Loess as a special soil type, its genesis and problems in studying it. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 23-38. Ref. 1948. 56.9 P44

9803 PELÍSEK, J. Saline soils in southern Moravia, Czechoslovakia. (In Czech.) *Vysoká Škola Zeměděl. Fakul. Hospodář. Sborn. Sign C* 42, 24 p. 1948. 105.92 B834

English summary.

9804 PIJLS, F. W. G. Riverclay soils, especially basin soils, in the Liemers. (In Dutch.) *Landbouwk. Tijdschr.* 59: 229-237. Ref. June/July 1947. 105.2 Or3  
English summary.

9805 PRINCIPI, P. The soils of Lombardy. (In Italian.) *Ital. Agr.* 85: 578-588. Oct. 1948. 16 It1

9806 REIFENBERG, A. Some observations on red soils. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 161-163. 1948. 56.09 C766

9807 REMEZOV, N. P. Results of research in studying the genesis of Podzolic soils. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 84-98. 1948. 56.9 P44

9808 RETZER, J. L. Soils developed from basalt in western Colorado. *Soil Sci.* 66: 365-375. Nov. 1948. 56.8 So3

9809 SABASHVILI, M. N. Zonal soils and classification of mountain-forest soils in Transcaucasia. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 133-161. Ref. 1948. 56.9 P44

9810 VANDERFORD, H. B. A new approach to classifying and mapping soils in the Mississippi Delta and its agronomic significance. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 94-95. 1948. 4 C82

9811 VITYN'SH, I. A. IA. Soil cartography in Latvia. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 74-76. 1948. 56.9 P44

9812 VUORINEN, J. On the possibilities for efficient soil mapping of Finland's arable land. (In Swedish.) *Prakt. Försöksverks.* 5: 9-12. Feb. 1948. 20 P88

9813 YANKOVITCH, L. Carte schématique de la répartition des types de sols en Tunisie. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 342-346. 1948. 56.09 C766

9814 ZAKHAROV, S. A. Study of zonal soils in the past and in the present. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 51-61. Ref. 1948. 56.9 P44



## SOIL MANAGEMENT

9815 BAKER, C. E. The effectiveness of some organic mulches in correcting potassium deficiency in peach trees on a sandy soil. *Amer. Soc. Hort. Sci. Proc.* 51: 205-208. June 1948. 81 So12

9816 BLAGOVIDOV, N. L. Adaptation of Podzolic soils for cultivation. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 218-237. Ref. 1948. 56.9 P44

9817 BRAY, R. H. Maintenance requirements for fertile soils. n. p., 1948. 9 p. 56.6 B73

9818 CUMMINGS, R. W. The role of commercial fertilizer in soil conservation. *Agron. Notes* 1948(8): 1-3. Oct. 6, 1948. 6 Ag843

9819 GRAHAM, H. D. The economics of strip coal mining, with special reference to Knox and Fulton Counties, Illinois. *Ill. A. Col. Com. and Business Admin. Bur. Econ. and Business Res. B. Ser.* 66, 7-77. 1948. 280.9 IL6

Strip mines and agriculture, p. 43-52.

9820 HAMILTON, A. P. F. The problem of shifting cultivation. *Indian Forester* 74: 2-6. Jan. 1948. 99.8 In2

Includes the problems of settling natives to permanent cultivation.

9821 MARASSI, A. The deterioration of tropical soils. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 42: 159-179. (Cont.) Ref. July/Sept. 1948. 26 Ag82

English summary.

9822 MEULENBERGH, J. L'Afrique centrale, terre qui se régénère. (Abs.) *Conf. Internat. de Pedol. Méditer. Compt. Rend.* 1947: 355. 1948. 56.09 C766

9823 PAPADAKIS, J. S. La Rioja y Catamarca. *IDIA; Inform. de Invest. Agr.* 1948(spec. No.): 1-15. Aug. 1948. 9 Id3

Soils, irrigation, and land use.

9824 PAPADAKIS, J. S. Tucumán, Salta y Jujuy. *IDIA; Inform. de Invest. Agr.* 1948(spec. No.): 16-29. Aug. 1948. 9 Id3

Soils, irrigation, and land use.

9825 PARKER, F. W. Contributions of soil management research to southern agriculture. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 167-168. 1948. 4 C82

9826 RICHTER, J. Bring back abandoned land. *Country Gent.* 118(12): 26, 60, 62. Dec. 1948. 6 C833

Land covered with brush and scrub trees.

9827 SEARS, P. B. We cannot waste our land; modern methods and chemical aids help rejuvenate farm and timber land. *Monsanto Mag.* 27(5): 18-22. Oct. 1948. 309.8 M75

9828 SIMONS, A. J. More about soil improvement. *Gard. Work Amateurs* 69: 55-58. (Cont.) Oct. 16, 1948. 80 G1627

9829 TALATI, R. P. Field experiments on reclamation of salt lands in Baramati of Bombay Deccan. *Indian J. Agr. Sci.* 17: 153-174. Ref. June 1947. 22 Ag831

9830 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Marion County, Kansas. Manhattan, 1948. 25 p. 1.96 L22Phma

## Soil Fertility

9831 AAS, J. Fertilizing of vegetables. (In Norwegian.) *Norsk Hageselskap. Minneliste for Hagedyrkere* 1948: 26-27. 86 N81

9832 AASMUNDSTAD, K. S. Soil fertilizing. (In Norwegian.) *Norsk Landbr.* 14: 428-429. Nov. 26, 1948. 11 N8122

9833 AHLSTRÖM, B., and TERASMÄE, E. Vegetable culture on peat soil; results of experiments during the years 1939-1944 on marshy and sphagnum peat soil at Ageröd in Scania. (In Swedish.) *Svenska Vall- och Mosskulturför. Kvrtilsskr.* 9: 247-265. Dec. 1947. 11 Sv27

English summary.

9834 ALBERTA. PROVINCIAL ADVISORY FERTILIZER COMMITTEE. The use of fertilizers in Alberta. *Alberta. Dept. Agr. Ext. Serv. C. 5, rev.,* 12 p. Mar. 1947. 275.29 AL122

9835 ALBRECHT, W. A. Soil acidity is beneficial not detrimental. *Guernsey Breeders' J.* 74: 641, 672 G-672 H, 674. Oct. 15, 1948. 43.8 G93

9836 ANDRE, A. Rôle de la potasse en agriculture. *Colon Franç. de Tunisie* 58(2068): 3. Oct. 9, 1948. 24 C712

9837 ARENS, G. J. Check your fertilizer needs by crop and location of land. *Pacific Northwest Co-op.* 13(11): 12. Nov. 1948. 280.28 P112

9838 ASKEW, H. O. and KIDSON, E. B. The control of magnesium deficiency of apple trees in the Nelson District, New Zealand. *New Zeal. J. Sci. and Technol. A. Agr. Res. Sect.* 29: 247-255. Feb. 1948. 514 N48A

9839 ATKINS, M. D. Legumes for [soil] conservation use. *Amer. Bee J.* 88: 498-499. Oct. 1948. 424.8 Am3

9840 AUDIDIER. L'utilisation des engrais. (Sum.) *Cahiers des Ingén. Agron.* 2(20): 22-24. Feb. 1947. 14 C112

Text in French and English.

9841 BALLHORN, R. D., and VOLZ, E. C. The influence of soil acidifying techniques on the growth of Azaleas. *Amer. Soc. Hort. Sci. Proc.* 51: 627-632. June 1948. 81 So12

9842 BANAL, R. Indirect fertilization [grain]. (In Italian.) *Gior. di Agr.* 57: 9-10. Jan. 12, 1947. 16 It1G

9843 BEAR, F. E. Soil conditions and plant growth. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 75. 1948. 4 C82

9844 BEERS, Z. H. How's your sense of humus? *Farm J.* 72(12): 38-39. Dec. 1948. 6 F2212

9845 BENSON, P. E. Sweet corn can help field corn. *Hormel Farmer* 12: 6-7. Sept. 15, 1948. 49 H782

Chiefly on fertilizer application.

9846 BERNARDES, B. C. Argelian phosphate in rice soils. (In Portuguese.) *Lav. Arroz.* 2(18): 35-36. June 1948. 59.8 L39

9847 BONETTI, S. Fertilization. (In Italian.) *Agr. Trentina* 3(6): 3-4. (To be cont.) Mar. 15, 1948. 16 Ag8263

9848 BONI, A. Need for legume culture to improve soil fertility. (In Italian.) *Ital. Vinic. ed Agr.* 38: 139. June 30, 1948. 95.8 It1

9849 BONNICEL, R. La fumure des vergers. *Bur. d'Études de Standard. et de Tech. des Prod. de Fruits de Qualité. B. de Liaison* 1947: 3-4. Oct./Nov. 1947. 86 B89

9850 BRASHER, E. P. The effect of minor elements and widely varying fertility levels on the yields of nine vegetable crops. *Amer. Soc. Hort. Sci. Proc.* 51: 346-348. June 1948. 81 So12

9851 CAIN, J. C. Some interrelationships between calcium, magnesium and potassium in one-year-old McIntosh apple trees grown in sand culture. *Amer. Soc. Hort. Sci. Proc.* 51: 1-12. Ref. June 1948. 81 So12

9852 CAMARGO, R. DE. The coffee tree and poultry manure. (In Portuguese.) *Chacaras e Quintais* 78: 469-470. Oct. 15, 1948. 9.2 C34

9853 CARR, F. Clover busting boosts potato yields. *Idaho Farmer* 66: 749. Oct. 21, 1948. 6 G282

Clover as a green manure crop.

9854 CASTORINA, S. Physiological studies on nitrogen fertilization of olives. (In Italian.) *Olivicoltura* 3(9): 9-16. Sept. 1948. 80 OL42

9855 CHAPMAN, C. J. Nitrogen fertilizers have extended crop production horizons in Wisconsin. *Amer. Plant Food Council. J.* 11(3): 2-5, 13. July/Sept. 1948. 57.8 P692

9856 CHATEL, C. Racines et fumure. *Réveil Agr.* 57: 260. Sept. 1, 1948. 14 R322

9857 CHIAPPELLI, R. Intercropping in the fertilization of rice soils. (In Italian.) *Risicoltura* 36: 172-174. Aug. 1948. 59.8 G43

9858 CLAPP, A. L. Kansas fertilizer needs as indicated by farm tests. *Amer. Plant Food Council. J.* 11(3): 6-7, 12, 14. July/Sept. 1948. 57.8 P692

9859 CROWTHER, E. M. The study of soil organic matter and organic manures by means of field experiments. *Conf. Internat. de Pedol. Méditer. Compt. Rend.* 1947: 123-139. 1948. 56.09 C766

9860 CURINI GALLETTI, A. Technique of fertilization. (In Italian.) *Terra [Firenze]* 59(36): 2. Sept. 5, 1948. 16 T274



- 9861 CURINI GALLETTI, A. Technique of nitrogen fertilization. (In Italian.) Terra [Firenze] 59(39): 3. Sept. 26, 1948. 16 T274
- 9862 DAVE, B. B. Manurial requirements of rice in the Central Provinces. Indian J. Agr. Sci. 17: 245-260. Oct. 1947. 22 Ag831
- 9863 DAVIDSON, L. G. Summary of fertilizer test on sugarcane in 1947. Sugar B. 27: 40-42. Nov. 1, 1948. 65.9 Am32
- 9864 DICKINSON, H. R. The importance of legumes in agriculture. Tasmanian J. Agr. 19: 147-148. Aug. 1948. 23 T182T  
Chiefly effects on soil.
- 9865 DIJK, J. W. VAN. Experiments on the use of ammonia in irrigation water applied to rice. East Indies (Dutch) Alg. Proefsta. v. Landb. Meded. 70, 18 p. Ref. 1948. 109.5 Ea73
- 9866 DRAGHETTI, A. To increase farm production it is first necessary to know the land. (In Italian.) Campagnolo 1948(2): 1-3. Feb. 1, 1948. 16 C15
- 9867 DREGNE, H. E., and BENSON, N. Soil analysis alone not enough. Better Fruit 43(6): 26. Dec. 1948. 90 B46
- 9868 DUCHAUFOUR. Le sol forestier et les facteurs de son équilibre. Soc. Forest. de Franche Comté et Provs. de l'Est. B. Trimest. 25: 261-267. Sept. 1948. 99.9 So14
- 9869 DUNBAR, C. O. Some new and practical cover crops for Maryland orchards. Md. State Hort. Soc. Proc. 50: 1-3. 1948. 81 M36
- 9870 ELLIS, SIR A. The key to our land's fertility: New Zealand farms and the phosphate islands. New Zeal. Dairy Exporter 24(3): 14-15, 17-18. (To be cont.) Sept. 1948. 44.8 N484
- 9871 ELLIS, M. G. Alberta soils need study; the arable gray wooded soils have to be understood before they can be farmed properly. Family Herald & Weekly Star 79(45): 7. Nov. 10, 1948. 7 F21
- 9872 EMMERT, E. M. Semi-quick tissue tests for determining the fertilizer needs of vegetable crops. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 142-143. 1948. 4 C82
- 9873 ENGELS, O. Der düngerwert des Ultramin. Landpost 4(1): 4-5. Jan. 10, 1948. 18 L2329
- 9874 FACCINI, G. C. Fertilizing apples. (In Italian.) Gior. di Agr. 57: 45-46. Feb. 23, 1947. 16 ItIG
- 9875 FAUREL, L. Aperçu schématique sur les sols des cédras de l'Afrique du Nord Française. Conf. Internatl. de Pédol. Méditer. Compt. Rend. 1947: 478-480. 1948. 56.09 C766
- 9876 FISHER, E., BOYNTON, D., and SKODVIN, K. Nitrogen fertilization of the McIntosh apple with leaf sprays of urea. Amer. Soc. Hort. Sci. Proc. 51: 23-32. June 1948. 81 So12
- 9877 FORET, J., and VOLZ, E. C. The effects of certain fertilizers and potting media on the growth and flowering of Azaleas. Amer. Soc. Hort. Sci. Proc. 51: 633-638. June 1948. 81 So12
- 9878 FRANCK, O. Directions for the use of nitrogen fertilizer. (In Swedish.) Försök och Forskning 4: 67-68. May 1947. 11 F77
- 9879 FRANCK, O. Directions for utilization of phosphate and potassium. (In Swedish.) Försök och Forskning 4: 108-109. Sept. 1947. 11 F77
- 9880 GALLETTI, A. C. Alfalfa in clay soils. (In Italian.) Agr. Tosc. 3: 276-277. Sept. 1948. 16 Ag827
- 9881 GAUCHER, G. Méthodes actuelles d'étude des terrains salés en Afrique du Nord. Conf. Internatl. de Pédol. Méditer. Compt. Rend. 1947: 455-473. Ref. 1948. 56.09 C766
- 9882 GAUL. Haben unsere böden genügend kalk? Bad. Landw. Wchnbl. 3: 188-189. Oct. 30, 1948. 18 B142
- 9883 GODINEZ, M. Mejoramiento de los suelos salitrosos. Germinal 1(10): 2. Nov. 1948. 8 G312
- 9884 GOLDSCHMIDT, W. B. Phosphate studies in Lowveld soils. Farming So. Africa 23: 531-534, 576. Aug. 1948. 24 So842
- 9885 GREAT BRITAIN. LAND FERTILITY (RESEARCH) FUND. Account 1946-47. London, 1948. 3 p. 57.9 G792  
Established to study use of lime or basic slag to improve soil fertility.
- 9886 GRISSOM, P. H. Winter legume experiments for cotton production. Miss. Agr. Expt. Sta. Serv. Sheet 414, 2 p. Sept. 1948. 100 M69
- 9887 HERRERA VASCONEZ, C. La fertilización de los suelos. Agr. Costarricense 6: 159-160. July/Aug. 1948. 8 Ag895
- 9888 HERRERO DE EGANA, M., and PENASCO CAMACHO, T. M. Los suelos del naranjo en el término de Alcira. Spain. Inst. Nac. de Invest. Agron. Cuaderno 98: 141-180. June 1948. 105.6 Sp14C  
French and English summaries.
- 9889 HESTER, J. B. Soil treatment for better foods. Food Technol. 2: 297-302. Oct. 1948. 389.8 F7398
- 9890 HIBON, J. Fumure des pépinières. Colon. Franç. de Tunisie 58(2065): 1-2. Sept. 18, 1948. 24 C712
- 9891 HOBART, C. Putting life into soil; organic matter to insure air, water and root penetration comes before everything else. Ariz. Farmer 27(23): 26-27. Nov. 13, 1948. 6 Ar44
- 9892 HÖGE, H. Die zottelwicke im dienste des obstbaues. Unser Wegweiser im Obstbau, Gart., Kleintierhof 3: 95. Aug. 1948. 18 Un7
- 9893 HOLDEN, J. The secret of the soil. New Zeal. Homes & Gard. 18(6): 15. Sept. 1948. 80 N4823
- 9894 HOPKINS, D. P. More lessons from research: manurial tests with black currants. Gard. Work Amateurs 69: 34-35. Oct. 9, 1948. 80 G1627
- 9895 HUTCHESON, C. B. Fertile soil our basic resource. New Agr. 31(2): 9. Nov. 1948. 66.8 Su32
- 9896 HUTER, R. Die stickstoffernährung der tabakpflanze. Zürich, Fluntern, 1947. 67 p. 463.34 H97  
Promotionsarbeit - Eidgenössische technische Hochschule, Zürich.
- 9897 IVERSEN, K., and DORPH-PETERSEN, K. Experiments with heavy quantities of phosphorus and potash fertilizer; soil analysis and field experiments 1940-46. (In Danish.) Denmark. Statens Forsøgsvirks. i Plantekultur, Beret. 406: 438-479. 1948. 11 D412  
English summary.
- 9898 JILLMER. Richtiger einsatz der knappen phosphorsäuredünger. Neue Mitt. f. die Land. 3: 247. Aug. 21, 1948. 18 N39
- 9899 JONES, G. D. Influence of nitrogen fertilization on the yield and quality of orchard grass seed and hay. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 83-84. 1948. 4 C82
- 9900 KARUNAKAR, P. D., and RAJAGOPALAN, T. Manuring of rice in relation to maintenance of soil fertility and increased production. Madras Agr. J. 35: 211-215. Sept. 1948. 22 M262
- 9901 KELLER, H. Düngt die wiesen! Kärntner Bauer 98: 226-227. July 15, 1948. 19 K14
- 9902 KILLIAN, C., and SCHNELL, R. Observations sur les formations végétales et les sols humifères correspondants des Monts Benna et du Fouta Djallon (Guinée Française). Conf. Internatl. de Pédol. Méditer. Compt. Rend. 1947: 356-357. 1948. 56.09 C766
- 9903 KILLINGER, G. B. Winter lupine enriches field. Fla. Grower 56(11): 22-23. Nov. 1948. 80 F6622
- 9904 KIRCHMEYER, F. Ratschläge zur herbstdüngung. Salzburg. Bauer 3(36): 1. Sept. 2, 1948. 19 Sa3
- 9905 KNOSP, G. La fumure du blé en fonction de la variété. Nord Agr. 4(52): 1. (To be cont.) Oct. 30, 1948. 14 N75
- 9906 KRISTJÁNSSON, K. K. Fertilizer application in the coming spring. (In Icelandic.) Freyr 43: 83-86. Mar. 1948. 11 F89
- 9907 KVAAL, E. Fertilizing of fruit trees and berry bushes. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1948: 40-41. 86 N81
- 9908 LAFOREST, G. La fertilisation des blés d'automne. Unité Paysanne 3(152): 1, 4. Oct. 2, 1948. 14 Un3
- 9909 LANDMAN, L. Fertilizing of the citrus border. (In Afrikaans.) Landbouweekblad 30(1525): 34-35. Oct. 6, 1948. 24 L232
- 9910 LARSON, C. Supplementing manure with fertilizer. (In Swedish.) Växt-Närings-Nytt 4(Spec. No.): 2-15. 1948. 57.8 V47



- 9911 LEONARD, O. A., and others. Field studies on the mineral nutrition of the sweet potato. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 144-145. 1948. 4 C82
- W. S. Anderson, M. Geiger, and E. L. Moore, joint authors.
- 9912 LIMA, P. DE O. Acidity of the soil. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7: 114-116. Apr./June 1948. 9.2 Ag892
- 9913 LORENZ, O. A. Proper timing, placement of fertilizer important. *Calif. Farmer, South. Ed.* 189: 402-403. Nov. 6, 1948. 6 C126A
- 9914 LÖVÖ, P. J. Lime requirement of Swedish arable land. (In Norwegian.) *Norsk Landbr.* 14: 409-411. Nov. 12, 1948. 11 N8122
- A criticism of book with same title by A. Åslander.
- 9915 LUGAN, J. La fumure localisée en profondeur par garde-manger. *Terre d'Oc* 30: 395-396. Sept. 1948. 14 Ar5
- 9916 MCMICHAEL, C. W. Minor elements for clovers, lespedeza and soybeans on Oberlin silt loam and Bowie fine sandy loam. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 87-88. 1948. 4 C82
- 9917 MCMUNN, E. W. How's the balance in your soil bank account? *Ohio Farmer* 202(9): 3, 37. Nov. 6, 1948. 6 Oh3
- 9918 MALMONTE, J. M. Essais de fumure sur pommes de terre dans le région du Nord. *Pomme de Terre Franç.* 11(105): 13-18. May 1948. 75.8 P77
- 9919 MARKUS, R. Chemical fertilizer for orchards. (In Portuguese.) *Lav. Arroz.* 2(21): 24-26, 30. Sept. 1948. 59 L39
- 9920 MATRONE, G., WEYBREW, J. A., and PETERSON, W. J. The influence of phosphate fertilization on the soybean plant. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 87. 1948. 4 C82
- 9921 MENDES, C. T. Nitrogen fertilizers. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 271-289. Sept./Oct. 1948. 9.2 R324
- English summary.
- On corn and cotton.
- 9922 MITSCHERLICH, A. Praktische ratschläge zur steigerung der ernteerträge. *Deut. Landw. Gesell. Arb. (n. s.)* 2, 69 p. 1947? 18 D48
- Chiefly fertilizers and tillage.
- 9923 MOOERS, C. A., WASHKO, J. B., and YOUNG, J. B. Effect of straw mulch on recovery of nitrogen from nitrate of soda and ammonium sulfate applied as top-dressing. *Soil Sci.* 66: 399-400. Nov. 1948. 56.8 So3
- 9924 MORAS T., M. DE. Abone bien y obtendrá más y mejor cañamo. *Agrario* 13(402): 17. Oct. 1948. 9.3 Ag85
- 9925 MOREL, J. L'emploi des engrais en solution. *Fruits et Primeurs de l'Afrique du Nord*, Ed. Maroc. 18: 307-308. Oct. 1948. 80 F9482
- 9926 MURAIAMA, S. J. Some fertilizer problems. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 131-137. May/June 1948. 9.2 R324
- 9927 MUSIEROWICZ, A., KRZYSZOWSKI, J., and WONDRAUSCH, A. Studies on the influence of the amount of copper sulfate applied to the Dublany, low peat-moor on the yield of oats and barley. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 51-70. Ref. 1948. 20.5 R59
- English summary.
- 9928 NIESCHLAG, F. Bodenuntersuchung und fruchtbarkeit unserer böden [Germany]. *Landwirtschaftsblatt Weser-Ems* 95: 204-205. Oct. 20, 1948. 18 L2345
- 9929 OCAÑA, B., and RAMBO, E. K. Valor y cultivo del maní, una leguminosa. *Rev. de Agr., Com. e Indus. [Panama]* 7(85): 12-27. Sept. 1948. 8 R3291
- Value as a green manure.
- 9930 ODLAND, T. E. Better hay with potash. *Better Crops with Plant Food* 32(9): 6-8, 40-41. Nov. 1948. 6 B46
- 9931 OLIVA, A. Pedological aspects of fertilizing. (In Italian.) *Ital. Agr.* 85: 541-547. Oct. 1948. 16 It1
- 9932 OVERSETH, O. E. Test plots may answer many of your questions. *Calif. Fruit & Grape Grower* 2(11): 15. Nov. 1948. 95.8 G762
- Fertilizers.
- 9933 PAINTER, J. H., DROSDOFF, M., and BROWN, R. T. Responses of bearing tung trees on Red Bay fine sandy loam to potassium and nitrogen. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 124. 1948. 4 C82
- 9934 PARR, C. H., and SEN, S. Phosphate manuring of legumes in relation to green manuring. IV. *Indian Farming* 9: 227-238. June 1948. 22 In283
- 9935 PEÑARANDA CANAL, F. La cal y su empleo en la agricultura. *Agr. Trop.* 4(10): 25-28. (To be cont.) Oct. 15, 1948. 26 Ag8
- 9936 PÉREZ MALLA, J. Cultivos herbáceos debajo frutales. *Cám. Ofic. Sind. Agr. de Barcelona. B.* 3: 57-58, 82-84. Mar.-Apr. 1948. 15 C14
- 9937 PERONNET, A. L'emploi des engrais aux Etats-Unis: aperçu sur quelques nouvelles méthodes d'application. *Potasse* 22: 171-172. Oct. 1948. 57.8 P84
- 9938 POWELL, L. B. From ancient oaks and peaty bogs—the fertiliser of the future. *Veld Trust News* 5: 12-13, 15. Oct. 1948. 56.8 V54
- 9939 RALEIGH, G. J. Effects of the sodium and of the chloride ion in the nutrition of the table beet in culture solutions. *Amer. Soc. Hort. Sci. Proc.* 51: 433-436. June 1948. 81 So12
- 9940 RANKIN, W. H. The effects of nitrogen applications on plant characters of two oat varieties. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 99-100. 1948. 4 C82
- 9941 REED, J. F., and BRADY, N. C. Time and method of supplying calcium as factors affecting production of peanuts. *Amer. Soc. Agron. J.* 40: 980-996. Ref. Nov. 1948. 4 Am34P
- 9942 ROE, J. Are you wasting fertilizer? *Successful Farming* 46(12): 38-39, 124-125. Dec. 1948. 6 Su12
- 9943 RUPP, E. We waste fertilizer, but still do not use enough correctly. *Mo. Ruralist* 89(23): 8. Dec. 11, 1948. 6 R8891
- 9944 SAINT-QUENTIN, M. Pour mettre en valeur les sols tourbeux. *Rustica* 20: 36. Jan. 19, 1947. 14 R92
- 9945 SAJDEL, A. L'influence de l'acidité du sol sur la culture du lin. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 271-284. Ref. 1948. 20.5 R59
- French summary.
- 9946 SANDKÜHLER, W. Ratschläge zur frühjahrsdüngung. *Landpost* 4(4): 3. Feb. 25, 1948. 18 L2329
- 9947 SAUCHELLI, V. Food, famine, fertilizers and peace. *Amer. Fert.* 109(7): 7-10, 20, 22, 24. Oct. 2, 1948. 57.8 Am3
- 9948 SAUCHELLI, V. Use fertilizers to grow quality crops. *Veg. Growers Assoc. Amer. Ann. Rpt.* 40: 116-124. 1948. 81 V52
- 9949 SAYRE, C. B. Método para aplicar los fertilizantes. *Campo [Tacuba]* 16(678): 35, 38-40, 42. Aug. 31, 1948. 8 C157
- 9950 SCHMITT, L. Zur kalknot unserer böden. *Neue Mitt. f. die Landw.* 3: 389-390. Nov. 15, 1948. 18 N39
- 9951 SCHRADER, A. L. Diagnosing the fertilizer needs for fruit plantings. *Peninsula Hort. Soc. Trans.* 61: 70-78. Ref. 1947. 81 P37
- 9952 SCHWARTZE, C. D., and MYHRE, A. S. Fertilizer response of blueberry hardwood cuttings. *Amer. Soc. Hort. Sci. Proc.* 51: 309-312. June 1948. 81 So12
- 9953 SEELEY, J. G., and POST, K. Soil nitrate levels for roses. *Amer. Soc. Hort. Sci. Proc.* 51: 613-617. June 1948. 81 So12
- Also in *Canad. Florist* 43(21): 10-13. Nov. 1, 1948. 80 C143
- 9954 SEWELL, T. G. Burning of Montane tussock grassland. *New Zeal. J. Agr.* 77: 263, 265-269. Ref. Sept. 1948. 23 N48J
- 9955 SHEAR, G. M., MCVICKAR, M. H., and SEARS, R. D. A factorial study of the effects of N, P, and K on yield and quality of wheat. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 98-99. 1948. 4 C82
- 9956 SIMON, M. La fumure minérale de la betterave sucrière, dans les conditions belges de production. *Inst. Belge pour l'Amélior. de la Betterave.* P. 16: 249-258. Ref. July/Aug. 1948. 66.9 In7
- Flemish and English summaries.
- 9957 SIMONS, A. J. Commonsense liming and manuring. *Gard. Work Amateurs* 69: 100-104. Oct. 30, 1948. 80 G1627



- 9958 SIMONS, A. J. Get to know your soil. Gard. Work Amateurs 69: 29-31. (To be cont.) Oct. 9, 1948. 80 G1627
- 9959 SITTON, B. G. Response of bearing tung trees to nitrogen, phosphorus and potassium fertilizers. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 124-125. 1948. 4 C82
- 9960 SKAIFE, S. H. Our Continent's scorched earth policy; life in all parts of Africa threatened by senseless burning of vegetation. Farmer's Weekly [Bloemfontein] 76: 52-53, 55. Oct. 6, 1948. 24 F225 Effects on the soil.
- 9961 SMITH, R. C. Learn some tricks in using fertilizers. East. States Coop. 24(12): 6-7. Dec. 1948. 280.28 Ea7
- 9962 SOMOZA, A. L. El suelo y su relación con los cultivos. Bolsa de Cereales, Buenos Aires. Rev. 35 (1864): 16, 25-27. Sept. 16, 1948. 287 B866
- 9963 STEPHENSON, R. E. Humus in orchard soil helps to hold fertility. Better Fruit 43(6): 27-31, 33. Dec. 1948. 80 B46
- 9964 STEVENSON, M. Treat your soil with lime. Gard. Chron. Amer. 52: 309. Nov. 1948. 80 G1632
- 9965 SUNDELIN, G. Experiences from this year's plant research. (In Swedish.) Lantmannen 32: 175-176. Mar. 13, 1948. 11 L234 Chiefly on fertilizing.
- 9966 TAMM, O. Influence exercée par la végétation forestière et les bruyères sur les sols de la partie méridionale de la Suède. Conf. Internatl. de Pédol. Méditer. Compt. Rend. 1947: 206-209. 1948. 56.09 C766
- 9967 TELLER, W. M. Michael Bodkin's organic fertilizer. Agr.-Com.-Indus. Life 10(9): 25-26. Sept. 1948. 25 Ag8
- 9968 VIDAL ESTERAS, G. Fertilidad del suelo. Agrar 4: 115-117. June/July 1948. 33.23 Ag3
- 9969 VOGLER, E. Fumure minérale et rendement des prairies. Potasse 22: 165-167. Oct. 1948. 57.8 P84
- 9970 WALLACE, T. Nutrition of farm crops. Farming [Norwich] 2: 335-338. Nov. 1948. 10 F2236 First of a series.
- 9971 WETZEL, A. Die bedeutung der kalidüngung beim wiederaufbau der deutschen landwirtschaft. Saat u. Ernte 3(8): 9. Aug. 1948. 18 Sa12
- 9972 WEZER, A. VAN. Fertilizing of vegetables under glass. (In Flemish.) Cult. en Handel 14: 438-440. July 1948. 80 C892
- 9973 WHITE, H. F. Land usage in Australia; maintenance of nutritional balance in the soil. Past. Rev. 58: 844-845. (To be cont.) Apr. 16, 1948. 23 Au75
- 9974 WHITEHEAD, S. B. How long do fertilisers remain effective? Pop. Gard. 50: 330. Oct. 30, 1948. 80 G1622
- 9975 WHITEHEAD, S. B. Liming for next year's crops. Amateur Gard. 65(3358): 17. Sept. 21, 1948. 80 Am13
- 9976 WOODHOUSE, W. W. Jr., and LOVVORN, R. L. Lowland legume for the South. South. Seedsman (11 i.e. 12): 14, 54. Dec. 1948. 61.8 So8 Wetland deervetch.
- 9977 WYMAN, M. S. Putting peat in its place. Golden Gard. 13: 4, 10. Oct. 1948. 80 G56
- 9978 ZALIHI, T. The manuring of Egyptian cotton: how much nitrogen should be used. Egypt. Cotton Gaz. 5: 37-41. Sept. 1948. 72.8 Eg9
- Soil Tilth and Tillage
- 9979 BRASHER, E. P. The effect of plowing and of discing soils on the yields of tomatoes, muskmelons, and potatoes. Amer. Soc. Hort. Sci. Proc. 51: 357-358. June 1948. 81 So12
- 9980 DENNIS, E. Enfouissement de la paille et des gros végétaux dans le sol. Rev. Agr. de l'Afrique du Nord 46: 435-436. Aug. 27, 1948. 80 R326
- 9981 ELLIS, F. E., and MACDONALD, D. W. International Plowing Match still growing. Family Herald & Weekly Star 79(43): 6-7, 12. Oct. 27, 1948. 7 F21 Held at Lindsay, Ontario.
- 9982 HANSEN, P. B. Tractor plowing contest in Sweden. (In Danish.) Dansk Landbr. 67: 434-436. Nov. 11, 1948. 280.28 V91
- 9983 HEIDENREICH, V. T. Tillage taboo in this garden. Oreg. Farmer 71: 801. Nov. 4, 1948. 6 Or32
- 9984 KOETTER, H. Sachgemässe bodenbearbeitung zur herbstsaat. Neue Mitt. f. die Landw. 3: 244-245. Aug. 21, 1948. 18 N39
- 9985 LARSEN, H. How is the spring tillage situation in Scania. (In Swedish.) Lantmannen 32: 181-182. Mar. 13, 1948. 11 L234
- 9986 LEAL MORENO, T. Sobre el surco. Germinal 1(10): 3. Nov. 1948. 8 G312
- 9987 NAJJAR, H. Moisture conservation in dry farming. (In Arabic) Syria. Ext. Serv. C. 1, 16 p. Mar. 1947. 22.5 Sy8 English summary.
- 9988 OCCHIALINI, G. Southern lands: fallowing, tillage and fertilizing [Italy]. (In Italian.) Gior. di Agr. 58: 271. Oct. 3, 1948. 16 It1G
- 9989 PIGGOT, R. Mulch farming. So. Austral. Dept. Agr. J. 52: 39. Aug. 1948. 23 So84
- 9990 RUIZ, M. M. Le "envenena" la tierra arándola muy húmeda? Agrario 13(401): 13. Sept. 1948. 9.3 Ag85
- 9991 RUSSELL, E. W. Current problems in soil cultivation. Conf. Internatl. de Pédol. Méditer. Compt. Rend. 1947: 93-96. 1948. 56.09 C766
- 9992 THÜNGEN, D. FREIHERR VON. Schlepper- und gespannpflug auf schwerem boden. Neue Mitt. f. die Landw. 3: 245-246. Aug. 21, 1948. 18 N39
- Drainage, Irrigation, Water Supply, and Flood Control
- 9993 ALLEN, M. The [Nebraska] University's part in reclamation. Irrig. Farmer 6(6): 3, 4, 13. Oct. 7, 1948. 55.8 Ir78 Educational measures planned by the Nebraska Reclamation Association.
- 9994 ANTOLISEI, G. Irrigation of the Tiber Valley between Rome and Orte. (In Italian.) Roma Econ. 1: 229-231. June 1948. 280.8 R66
- 9995 ARAGON MONTEJO, J. La revancha del campo (apuntes de política agraria). Agrar 4: 122-124. (Cont.) June/July 1948. 33.23 Ag3 Irrigation in Spain.
- 9996 ASGHAR, A. G., and DHAWAN, C. L. Effect of irrigation and growing rice on saline soils. I. Indian J. Agr. Sci. 17: 199-202. Ref. Aug. 1947. 22 Ag831
- 9997 BÄCKSTRÖM, C. C. Ditching with soil scoop. (In Swedish.) Lantmannen 32: 252. Apr. 10, 1948. 11 L234
- 9998 BATSON, A. A. Current program of Bureau of Reclamation in Nebraska. Nebr. State Irrig. Assoc. Proc. 55: 128-142. 1947. 55.9 N27P
- 9999 BILAND, M. L'irrigation de fin d'été des agrumes. Rev. Agr. de l'Afrique du Nord 46: 482-483. Sept. 24, 1948. 80 R326 Similar title in Voix des Colons 30(1471): 1. Sept. 27, 1948. 24 V85
- 10000 BLANCO GONZALEZ, T. Implantación de nuevos regadíos. Agrar 4: 111-113. June/July 1948. 33.23 Ag3
- 10001 CHATEL, C. L'irrigation des vergers. Reveil Agr. 57: 323-324. Nov. 1, 1948. 14 R322
- 10002 COONY, J. J. Water quality. Calif. Citrog. 34: 95. Dec. 1948. 80 C125
- 10003 CRESS, D. Practical pump irrigation. Nebr. State Irrig. Assoc. Proc. 55: 161-168. 1947. 55.9 N27P
- 10004 CROSBY, J. The [orange] grove that water nearly killed. Calif. Farmer, South. Ed. 189: 335. Oct. 23, 1948. 6 C126A Over-irrigation.
- 10005 DAVIS, E. H. Georgia's irrigation program—present and future. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 69-70. 1948. 4 C82
- 10006 DEVUYST, A. La culture irriguée de l'arachide dans la région de Valence (Espagne). Oléagineux 3: 513-517. Nov. 1948. 77.8 OL2 English summary, p. 571.
- 10007 DOMENIGHETTI, C. A ditch-digging machine. (In Italian.) Macch. e Motori Agr. 6: 257-263. June 1948. 58.8 M13
- 10008 DONA DALLE ROSE, A. For an agricultural standard relative to irrigation of linseed for oil production. (In Italian.) Olearia 2: 563-566. Aug./Sept. 1948. 307.8 OL2



- 10009 DUGGAN, A. P. We'll write our own water ticket. *Southwest. Crop & Stock* 2(10): 14-15, 67, 70-71. Oct. 1948. 6 So8942
- Ground water regulations in Texas and proposed legislation.
- 10010 EAST, L. R. Water conservation projects in Victoria. *Commonwealth Engin.* 36(2): 91-98. Sept. 1, 1948. 290.8 C73
- 10011 EMPSON, A. Warping: an old art revived. *Cent. Landowners' Assoc. J.* 27: 113-115. Oct. 1948. 286.9 C33J
- Diking.
- 10012 EWING, P. A., and WORK, R. A. Water report; West-wide forecasts of 1948-49 water supplies based on work of the Western snow surveys. *Reclam. Era* 34: 212-213, 220. Nov. 1948. 156.84 R24
- 10013 EYMAN, R. A. Tobacco growers know water turns into cash. *Fla. Grower* 56(12): 5, 32-33. Dec. 1948. 80 F6622
- Overhead irrigation.
- 10014 FERGUSON, F. F. Reclaiming the Indian desert. *Sci. and Cult.* 14: 116-118. Sept. 1948. 475 Sci24
- 10015 FISCHER, W. Der Lanninger-plan. *Kurzbriefe f. Ernähr. u. Landw.* 1948(9): A T3, 4 p. Sept. 1948. 281.8 K96
- Drainage in Germany.
- 10016 FOX, L. C. A flood came. *Soil Conserv.* 14: 108-111. Dec. 1948. 1.6 So3S
- Flood damage and soil losses, Hydro, Okla.
- 10017 GEE, H. C. What drainage and flood control mean to proper utilization of our land. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 162-163. 1948. 4 C82
- 10018 GRINOVERO, C. Irrigation and the hydro-electric industry [Italy]. (In Italian.) *Gior. di Agr.* 57: 91. Apr. 20, 1947. 16 It1G
- 10019 HANNAH, H. W. Illinois farm drainage law manual. *Ill. Farm Econ.* 161: 743-751. Oct. 1948. 275.28 IL5
- 10020 HODGE, C. H. In the hills of Ohio where the infant waters of the Mississippi have been impounded and held back for the use of Ohio citizens and the prevention of disastrous floods. *Farmer's Mag.* 54(11): 9, 66. Nov. 1948. 7 C165
- 10021 HOLTAN, H. N., and MUSGRAVE, G. W. Soil water and its disposal under corn and bluegrass. *U. S. Soil Conserv. Serv. SCS-TP-68*, 36 p. July 1947. 1.96 Ad6Tp
- 10022 HOWARD, R. Statistical information on irrigated and non-irrigated lands for 1946 and 1947. *Nebr. State Irrig. Assoc. Proc.* 55: 145-148. 1947. 55.9 N27P
- 10023 HOWARD, R. G. Irrigation laboratory at Santa Paula [California]. *Reclam. Era* 34: 237-239. Dec. 1948. 156.84 R24
- 10024 HÜRLIMANN, H. Die austrocknung des kulturlandes in Südmähren. *Leben u. Umwelt* 5: 41-47. Nov. 1948. 410 L49
- 10025 ISAACS, D. R. A child can irrigate—if water is handled properly. *Sheep and Goat Raiser* 28(12): 18, 36. Sept. 1948. 45.8 Sh3
- 10026 JANES, B. E. The effect of varying amounts of irrigation on the composition of two varieties of snap beans. *Amer. Soc. Hort. Sci. Proc.* 51: 457-462. Ref. June 1948. 81 So12
- 10027 JENNINGS, B. A. Water and drainage in Rio Grande Valley. *Fruit & Veg. Rev.* 9(8): 18-19, 37. Nov. 1948. 80 C1224
- 10028 JOHNSTON, C. N. Irrigation by sprinkler system. *Calif. Agr. [Calif. Sta.]* 2(11): 3, 14. Nov. 1948. 100 C12Cag
- 10029 JONES, P. H. Salt content of ground water in south Louisiana. *Rice News* 15(10): 4-5. Oct. 1948. 59.8 R362
- 10030 JÓNSSON, Á. L. Notes on the drainage of farm land. (In Icelandic.) *Freyr* 43: 64-70. (Cont.) Feb./Mar. 1948. 11 F89
- 10031 KEMP, H. K., HALLIDAY, O. E., and SPURLING, M. B. Sprinkler irrigation investigation. *So. Austral. Dept. Agr. J.* 52: 19-23. (Cont.) Aug. 1948. 23 So84
- 10032 KHACHATRIAN, A. G. Bor'ba s zailenim orositel'nykh kanalov [Controlling silt in irrigation canals]. *Moskva, Sel'khozgiz*, 1948. 103 p. 290 K523
- 10033 KIMMEL, E. S. Co-operation between water users and State Bureau of Irrigation. *Nebr. State Irrig. Assoc. Proc.* 55: 18-22. 1947. 55.9 N27P
- 10034 KIRCHER, W. H. Water when it's needed. *Farmer [St. Paul], Gen. Ed.* 66(23): 1, 32. Dec. 4, 1948. 6 F2211
- Irrigation in Minnesota.
- 10035 KRIECHBAUM, E. Ein praktischer regenapparat. *Gart.-Z. Illus. Flora* 71: 127-128. Sept. 1948. 80 G1991
- 10036 LAMONT, N. Water-spreading methods in irrigated areas of U.S.A. *New Zeal. J. Agr.* 77: 149-151, 153-155. Aug. 1948. 23 N48J
- 10037 LESTER, J. Rangeland miracle. *Mont. Farmer-Stockman* 36(5): 1, 12. Nov. 1, 1948. 6 M764
- Dike system in Southeastern Montana.
- 10038 LEWIS, D. D. Activities of Water Resources Branch, Geological Survey in State of Nebraska. *Nebr. State Irrig. Assoc. Proc.* 55: 150-161. 1947. 55.9 N27P
- 10039 LILLARD, J. H., JR., PROPST, J. W., JR., and EDMISTER, T. W. Supplemental irrigation in Virginia. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 71-72. 1948. 4 C82
- 10040 LOTHROP, E. Wealth from water. *Farm & Ranch* 67(11): 26. Nov. 1948. 6 T31
- Underground water for irrigation in New Mexico.
- 10041 MCDONALD, H. R. The low-down on ground water. *Reclam. Era* 34: 229-230, 242. Dec. 1948. 156.84 R24
- 10042 MACGILLIVRAY, J. H. Effect of irrigation on the yield of onion seed. *Amer. Soc. Hort. Sci. Proc.* 51: 423-427. June 1948. 81 So12
- 10043 MACKIEWITCZ, P. Perméabilité du sol et débit de l'eau. Connaissances de base pour l'irrigation rationnelle. *Rev. Agr. de l'Afrique du Nord* 46: 430-431. Aug. 27, 1948. 80 R326
- 10044 MAIERHOFER, C. R. Reclamation rain. *Reclam. Era* 34: 233-236. Dec. 1948. 156.84 R24
- Soil and moisture tests with the infiltrometer.
- 10045 MANSON, P. W., and MILLER, D. B. Essential characteristics of durable concrete drain tile for alkali soils. *Agr. Engin.* 29: 485-487, 489. Nov. 1948. 58.8 Ag83
- 10046 MARESCALCHI, A. Reclamation. (In Italian.) *Ital. Vinic. ed Agr.* 38: 218-219. Oct. 15, 1948. 95.8 It1
- 10047 MATIUOK, I. S. Reclamation of Achikulaksk sands [in Grozny Region] for afforestation. (In Russian.) *Vsesoyuzn. Nauch. Issled. Inst. Agrolesomeliy. Itogi Rabot 1944/45*: 159-187. Ref. 1947. 106 M859
- 10048 MERENDI, A. For irrigation. (In Italian.) *Gior. di Agr.* 57: 23. Jan. 26, 1947. 16 It1G
- Italy.
- 10049 MINOLTS. Zum problem des maschinellen grabenräumens. *Landwirtschaftsblatt Weser-Ems* 95: 205-206. Oct. 20, 1948. 18 L2345
- 10050 MOLINELLI, J. C. Sistematización por medio de terrazas, de predios destinados a la agricultura. *Uruguay. Dir. de Agron. P.* 93, 49 p. Montevideo, 1948. 9.9 Ur84
- 10051 MOZZI, U. Reclamation societies and associates. (In Italian.) *Gaz. Agr. [Padova]* 26(3/4): 1. Jan. 31, 1947. 16 G254
- 10052 NAJJAR, H. Orchard irrigation. (In Arabic.) *Syria. Ext. Serv. C.* 9, 24 p. Aug. 1947. 22.5 Sy8
- English summary.
- 10053 NEBRASKA STATE IRRIGATION ASSOCIATION. Proceedings of the fifty-fifth annual convention, North Platte, Nebraska, December fourth, fifth and sixth, 1947. *North Platte*, 1947. 199 p. 55.9 N27P
- 10054 NETTLES, V. F. Two years results of the effect of several irrigation treatments on the yield of cabbage and snap beans. *Amer. Soc. Hort. Sci. Proc.* 51: 463-467. June 1948. 81 So12
- 10055 NOURY, C. Economisons les eaux d'arrosage. *Soc. d'Hort. et d'Acclim. du Maroc. B.* 33: 105. Third Quart. 1948. 87 So1
- 10056 NUCKOLS, S. R. Growing sugar beets. *Nebr. State Irrig. Assoc. Proc.* 55: 168-173. 1947. 55.9 N27P
- 10057 ORTIZ GARMENDIA, J. Trabajos de saneamiento y habilitación de los terrenos de Las Vegas de la Serena. *Campesino [Santiago]* 80(8): 37, 39. Aug. 1948. 9.3 So12
- 10058 PANDEY, H. N. Earthen dams for storage reservoirs. *Allahabad Farmer* 22: 329-333. May 1948. 22 AL5



- 10059 FEELE, T. C. Irrigation requirements of South Carolina soils. (Abs.) Assoc. South Agr. Workers. Proc. 45: 72-73. 1948. 4 C82
- 10060 PEREZ DIAZ, D. Regaderas. *Germinal* 1(10): 4-5. Nov. 1948. 8 G312
- 10061 POWERS, W. L. Many factors set water need. *Wash. Farmer* 73: 791. Oct. 21, 1948. 6 R151  
Sprinkler irrigation.
- 10062 PUBLIC AFFAIRS INSTITUTE. The big Missouri: hope of our West. Washington, 1948. 57 p. (Its Rpt. 2) 292 P962  
Irrigation and other agricultural programs.
- 10063 RANTSUS, D. V. Poliv sel'skokhoziaistvennykh kul'tur korotkostruinoi dozhdaval'noi ustanovkoï [Irrigation of farm crops with short-jet spraying equipment]. Moskva, Sel'khozgiz, 1948. 47 p. 55 R17
- 10064 ROMANOV, V. M. Polivy sel'skokhoziaistvennykh kul'tur po borozdam i napuskom [Furrow irrigation of agricultural crops]. Moskva, Sel'khozgiz, 1948. 68 p. 55 R662
- 10065 ROZANOV, A. N. Changes effected by irrigation in Sierozem soils. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trud.* 27: 238-258. Ref. 1948. 56.9 P44
- 10066 SCHROEDER, E. W. Irrigation demands careful planning. *Farmer-Stockman* 61(12): 24, 38. Dec. 1948. 6 Ok45
- 10067 SCOTT, H. A. Central and southern Florida flood control. *Mil. Engin.* 40: 502-505. Nov. 1948. 290.9 Un3
- 10068 SCOUPE, C. L'appareil d'arrosage à rampe oscillante Deschamps. *Jard. de France (ser. 7)* 2: 215-216. Sept./Oct. 1948. 86 So13
- 10069 SERS, J. Pour construire des canaux d'irrigation. *Rustica* 21: 523, 525. Aug. 1, 1948. 14 R92
- 10070 SHAROV, I. A. Oroshenie na mestnom stoke [Local irrigation system]. Moskva, Sel'khozgiz, 1948. 54 p. 55 Sh22
- 10071 SHEN, F. S. Water conservancy. China. Min. Agr. and Forestry. Misc. P. 1: 48-51. Apr. 1948. 22.5 C4412M
- 10072 SIMONNEAU, P. Les exigences de la pomme de terre en culture irriguée. Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc. 18: 309. Oct. 1948. 80 F9482
- 10073 SMITH, E. G. SCS [Soil Conservation Service] farm planner aids in desert land development. *Better Farming Methods* 20(12): 16, 26-27. Dec. 1948. 58.8 B46
- 10074 SMRHA, R. V. Water rights in Kansas. *Kans. State Bd. Agr. Bien. Rpt.* (1945/46) 35: 74-80. 1948. 2 K13R
- 10075 SNOW, R. V. Project repayment contracts—custom tailored. *Reclam. Era* 34: 217-218. Nov. 1948. 156.84 R24  
Irrigation construction costs.
- 10076 SORTOR, C. H. Facts and figures on water. *Calif. Fruit & Grape Grower* 2(11): 10. Nov. 1948. 95.8 G762  
For irrigation.
- 10077 STEPHENS, J. A., and VOLZ, E. C. The growth of stocks and china asters on four Iowa soils with constant-level sub-irrigation. *Amer. Soc. Hort. Sci. Proc.* 51: 605-609. Ref. June 1948. 81 So12
- 10078 SULT, H. M. Asphalt linings for irrigation canals. *Reclam. Era* 34: 231-232, 244. Dec. 1948. 156.84 R24
- 10079 SUTTON, J. G. What drainage and flood control mean to proper utilization of our land. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 168-169. 1948. 4 C82
- 10080 SWANSON, D. W. J. A man against a moor. *Farmers Weekly [London]* 29(17): 47-48. Oct. 22, 1948. 10 F2226  
Reclamation of an English farm.
- 10081 TIEDJENS, V. A. Do we need irrigation. *Peninsula Hort. Soc. Trans.* 61: 34-35. 1947. 81 P37
- 10082 TURNBULL, J. The status of supplemental irrigation in Florida. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 73-74. 1948. 4 C82
- 10083 U. S. ENGINEER DEPT. Memorandum of understanding between Corps of Engineers, Department of the Army, and Soil Conservation Service, United States Department of Agriculture, with respect to drainage activities. Washington? 1948. 5 p. 152.26 M51
- 10084 VARGAS PERALTA, F. El embalse de Alcohuaz. *Agr. del Norte* 38: 87. Apr./May 1948. 9.3 So14
- 10085 VIGGIANI, G. The agricultural Mezzogiorno: the desert conquers. (In Italian.) *Gior. di Agr.* 57: 22. Jan. 26, 1947. 16 It1G  
Irrigation.
- 10086 VIGGIANI, G. The mountain. (In Italian.) *Gior. di Agr.* 57: 45. Feb. 23, 1948. 16 It1G  
Drainage and forestation.
- 10087 WAITE, H. Ground-water levels in Platte Valley. *Nebr. State Irrig. Assoc. Proc.* 55: 73-80. 1947. 55.9 N27P
- 10088 WALSH, O. E. Regulation of Northwest's major rivers is aim of broad flood control program. *Civil Engin.* 18(12): 22-27. Dec. 1948. 290.8 C49
- 10089 WIEGERING, G. Drenaje de los suelos mineralizados. *Agronomia [Lima]* 12(50): 49-102. Apr./May 1947. 9.8 Ag83
- 10090 WILCOX, L. V. The quality of water for irrigation use. U. S. D. A. Tech. B. 962, 40 p. Ref. Sept. 1948. 1 Ag84Te
- 10091 WOOD, I. D. One-man irrigated farm. *Nebr. State Irrig. Assoc. Proc.* 55: 53-56. 1947. 55.9 N27P

## Erosion and Erosion Control

- 10092 ARMSTRONG, J. B. Contour farming; is it the answer to soil erosion in the Pacific Northwest? *Idaho Farmer* 66: 893. Dec. 16, 1948. 6 G282
- 10093 AUBERT, G., DUBOIS, J., and MAIGNIEN, R. L'érosion éolienne dans le nord-ouest du Sénégal. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 443-450. Ref. 1948. 56.09 C766
- 10094 BAREN, F. A. VAN. Cause, result and control of erosion in the United States. (In Dutch.) *Landbouwk. Tijdschr.* 59: 316-319. Aug./Sept. 1947. 105.2 Or3
- 10095 BARROS, W. D. DE. Soil conservation in São Paulo. (In Portuguese.) *Lav. Arroz.* 2(19): 37-38. July 1948. 59.8 L39
- 10096 BENNETT, H. H. Nations working together. *Soil Conserv.* 14: 99-101, 104, 107. Dec. 1948. 1.6 So3S  
The Inter-American Conference on Conservation of Renewable Resources.
- 10097 BENNETT, H. H. A new day in agriculture. Washington, U. S. Soil Conserv. Serv., 1948. 14 p. 1.96 Ad62  
Soil conservation farming.
- 10098 BENNETT, H. H. New things on the agricultural lands of America. *Soil Conserv.* 14: 112-116. Dec. 1948. 1.6 So3S  
Soil conservation and flood control.
- 10099 BENNETT, H. H. Now the soil conservation job can be done. Washington? U. S. Soil Conserv. Serv., 1948. 8 p. 1.96 Ad62
- 10100 BENNETT, H. H. Permanent peace—a world's soil problem. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 160-161. 1948. 4 C82
- 10101 BENNETT, H. H. Soil conservation and flood control. Washington, U. S. Soil Conserv. Serv., 1948. 13 p. 1.96 Ad62
- 10102 BENNETT, H. H. Soil conservation awards for all. Washington, U. S. Soil Conserv. Serv., 1948. 10 p. 1.96 Ad62
- 10103 BENNETT, H. H. Soil on the land—milk in the can. *Hoard's Dairyman* 93: 887, 908. Dec. 10, 1948. 44.8 H65
- 10104 BENNETT, H. H. Teamwork for soil conservation. Washington, U. S. Soil Conserv. Serv., 1948. 12 p. 1.96 Ad62
- 10105 BENNETT, H. H. The turning soil conservation tide. Washington, U. S. Soil Conserv. Serv., 1948. 11 p. 1.96 Ad62
- 10106 BONDURANT, S. Soil conservation and wildlife. *Va. Wildlife* 9(9): 21. Sept. 1948. 410 V81
- 10107 BRANNAN, C. F. The pledge to America's future. Washington, U. S. D. A., 1948. 8 p. 1.91 A2B73  
Soil and water conservation.
- 10108 BRANNAN, C. F. Putting the "bee" on soil erosion. Washington, U. S. D. A., 1948. 7 p. 1.91 A2B73



- 10109 BRAUDE, I. D. Forest and orchard plantings on washed out and eroded lands. (In Russian.) Vsesoiuzn. Nach. Issled. Inst. Agrolesomeliior. Itogi Rabot 1944/45: 142-158. 1947. 106 M859
- 10110 BROOKER, D. Soil conservation and its importance to New Zealand. Forest & Bird 88: 14-15. May 1948. 413 N42
- 10111 BROWN, G. F., and ELLISON, W. D. A new approach to erosion control. What's New in Crops & Soils 1: 12-13, 24. Oct. 1948. 6 W55  
Splash erosion control with soil covers.
- 10112 CARNES, A. Applying soil conservation through local contract. Better Crops with Plant Food 32 (9): 25-26, 41-42. Nov. 1948. 6 B46
- 10113 CARPENTER, F. R. The misunderstanding on land use. West. Live Stock 34(2): 36, 148-149. Sept. 1948. 49 W523  
Range management and soil erosion control.
- 10114 CHRISTODOULOU, J. Solving the soil conservation problem [in Cyprus]. Countryman [Nicosia] 1947: 3-6. June 1947. 22.5 C83
- 10115 CLAYPOOL, J. B. Kentucky has soil Conservation Month. Ky. Farmer 84(12): 6. Dec. 1948. 6 F2237
- 10116 CORMACK, R. G. H. Canada's good earth goes down the drain. Woodland World 1(4): 3. Oct. 1948. 99.8 W853
- 10117 CULLEN, E. Soil conservation is part of the war against want. New Zeal. J. Agr. 77: 227. Sept. 1948. 23 N48J
- 10118 DANIEL, H. A., and ELWELL, H. M. Oklahoma range men are getting beef from gullies. What's New in Crops & Soils 1(2): 14-15. Nov. 1948. 6 W55  
Regrassing eroded land.
- 10119 DIJK, J. W. VAN, and VOGELZANG, W. L. M. The influence of improper soil management on erosion velocity in the Tjiloetoeng Basin (Residency of Cheribon, West Java). East Indies (Dutch) Alg. Proefsta. v. Landb. Meded. 71, 10 p. 1948. 109.5 Ea73
- 10120 DOWDLE, H. J. Selling the soil conservation program. Washington, U. S. Soil Conserv. Serv., 1948. 6 p. 1.96 Ad6Do
- 10121 DUTRA, E. G. Soil conservation policy. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 290-294. Sept./Oct. 1948. 9.2 R324
- 10122 ELLISON, W. D. Erosion by raindrop. Sci. Amer. 179(5): 40-45. Nov. 1948. 470 Sci25
- 10123 FERGUSON, J. M., and KNIGHT, R. S. Contour farming. Kans. State Col. Agr. Ext. C. 67, 20 p. 1947. 275.29 K13Ex
- 10124 GIBBS, J. A. Tree plantings control erosion and produce wood. Forest Farmer 7(2): 5. Nov. 1948. 99.8 F7692
- 10125 GISH, R. E. What will your farm be like tomorrow? Ill. Agr. Assoc. Rec. 26(10): 11, 34. Oct. 1948. 6 IL62  
Soil conservation.
- 10126 GRANT, A. P., and FENTON, G. R. Willows and poplars for conservation and river works. New Zeal. Soil Conserv. and Rivers Control Council. B. 6, 71 p. Ref. 1948. 56.9 N49
- 10127 HILL, R. R., and KIRBY, F. L. Tread ruts lead to gullies. Colo. Conserv. Comments 10(7): 11-12. Sept. 1948. 412.9 C713  
Jeeps and erosion.
- 10128 HUNGER, E. A. Seeing is believing when you build a good terrace. Tractor Farming 31(4): 8-9. Fall 1948. 58.8 T672
- 10129 IAKUBOV, T. F. Problem of controlling wind erosion of soils. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 27: 196-208. 1948. 56.9 P44
- 10130 JACKS, G. V. Soil conservation and human ecology. Conf. Internatl. de Pédol. Méditer. Compt. Rend. 1947: 220-221. 1948. 56.09 C766
- 10131 JENSEN, B. F. The need for a national land policy based on conservation of soil and water resources. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 164-166. 1948. 4 C82
- 10132 KOZMENKO, A. S. Geomorphological and erosional characteristics of the arid right shore of the Volga (Kamyshin and Stalingrad). (In Russian.) Vsesoiuzn. Nach. Issled. Inst. Agrolesomeliior. Itogi Rabot 1944/45: 121-141. 1947. 106 M859
- 10133 LOWDERMILK, W. C. Progress report on soil and water conservation in the United States. Conf. Internatl. de Pédol. Méditer. Compt. Rend. 1947: 267-268. 1948. 56.09 C766
- 10134 LOWDERMILK, W. C. Soil erosion and irrigation storage in North Africa. Conf. Internatl. de Pédol. Méditer. Compt. Rend. 1947: 405-406. 1948. 56.09 C766
- 10135 MANN, D. Jewell County has found the key to success. Kans. Farmer 85(22): 5, 24. Nov. 20, 1948. 6 K13  
Soil conservation.
- 10136 MARQUES, J. Q. A. Soil conservation in the coffee plantation. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 23: 72-82, 174-182. Feb.-Mar. 1948. 68.29 Sa63
- 10137 MATELSKI, R. Soil conservation. Nebr. State Irrig. Assoc. Proc. 55: 48-51. 1947. 55.9 N27P
- 10138 MATTHEWS, J. W. Hillside erosion. Forest & Bird 87: 3-4. Feb. 1948. 413 N42
- 10139 MOSCOW. VSESOFUZYNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT AGROLESOMELIORATSII. Agrolesomeliioratsiia [Soil conservation by protective planting]. Ed. 2, rev. and enl. Moskva, Sel'khozgiz, 1948. 559 p. 99.45 M85
- 10140 NEW SOUTH WALES. SOIL CONSERVATION SERV. Soil conservation on the farm. Individual erosion control programmes with notes on the Government's advances scheme. Sydney, Tennant, 1948. 17 p. 56.7 N47
- 10141 NORRIS, W. C. Build a Nichols terrace; stops soil's trip to the sea. Ala. Farmer 27(2): 8, 16. Nov. 1948. 276.8 AL1
- 10142 O'NEILL, C. T. Bankers interest in soil conservation. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 166-167. 1948. 4 C82
- 10143 ORTIZ GARMENDIA, J. Las dunas de La Serena y la conveniencia de estabilizarlas. Campesino [Santiago] 80(9): 27-28. Sept. 1948. 9.3 So12
- 10144 POWELL, A. L. Erosion survey needed. Pa. Farmer 139: 348, 361. Dec. 11, 1948. 6 P383
- 10145 ROARK, C. L. Conservation is everybody's job. Cotton Gin & Oil Mill Press 49(25): 13, 21. Dec. 11, 1948. 304.8 C822
- 10146 RUPP, E. Planned own conservation. Mo. Ruralist 89(21): 14. Nov. 13, 1948. 6 R8891  
Terracing.
- 10147 SANTOS, E. Conservacion de suelos, o muerte. Agr. Trop. 4(10): 13-14. Oct. 15, 1948. 26 Ag8
- 10148 SHEN, T. C. Soil conservation, basis of agricultural development. (In Chinese.) Monthly Farmers' Bank China 9(1): 20-23. Jan. 1948. 281.9 F225M
- 10149 SOBOLEV, S. S. Development of soil erosion and land resources of European U. S. S. R. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 27: 178-195. Ref. 1948. 56.9 P44
- 10150 TAYLOR, E. H. The need for a national land policy based on the conservation of soil and water resources. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 170. 1948. 4 C82
- 10151 TIDMARSH, C. E. Conservation problems of the Karoo. Farming So. Africa 23: 519-530. Aug. 1948. 24 So842  
Soil and veld conservation.
- 10152 TODARO, F. Soil erosion. Italia Agr. 85: 495-498. Sept. 1948. 16 It1
- 10153 U. S. SOIL CONSERVATION SERV. Farm face-lifting demonstrations; their history, how they're conducted, and what they accomplish. Washington, 1948. 5 p. 1.96 Ad6Far
- 10154 U. S. SOIL CONSERVATION SERV. What is a conservation farm plan? U. S. D. A. 249, 7 p. Oct. 1948. 1 Ag84L
- 10155 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Agronomy practices in soil and water conservation. Portland, Oreg., 1948. 6 p. 1.9069 Ag84
- 10156 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Erosion damage (generalized) in the Pacific Region. Portland, Oreg? 1948. Map. 1.9609 Er63
- 10157 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the bunchgrass forage type in the South Palouse [Washington] Soil Conservation District, by G. L. Gilbert. Uniontown, Wash., 1948. 17 p. 1.9609 R1624



10158 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the sand-bunchgrass and sagebrush-bunchgrass forage types in the East Benton [Washington] Soil Conservation District, by G. J. Chohlis and L. L. Tinsman. Kennewick, Wash., 1948. 20 p. 1.9609 R1623

10159 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the sand-bunchgrass and sagebrush-bunchgrass forage types in the West Benton [Washington] Soil Conservation District, by G. J. Chohlis and L. L. Tinsman. Prosser, Wash., 1948. 20 p. 1.9609 R1622

10160 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. [Soil conservation in Nevada.] Reno, 1947. 21 p. 1.9609 S037

10161 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Strip cropping. Portland, Oreg., 1948. 6 p. 1.9609 St8

10162 UPSHAW, H. C. Remaking a farm in a day. Farm & Ranch 67(11): 21, 22. Nov. 1948. 6 T31

10163 VASCONCELLOS, P. W. C. DE, and MONTE-NEGRO, H. W. S. Practical instruction for planting orchards on contours. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 329-336. Sept./Oct. 1948. 9.2 R324

10164 VOGT, W. Un peligro futuro para el Perú. Peru. Com. Nac. de Protec. a la Nat. B. 5(1): 3-7. 1948. 279.9 P43

Soil erosion.

10165 WEAVER, F. U. Conserving soil in Chambers County. Ala. Rur. Elect. News 1(10): 7. Nov. 1948. 335.8 AL1

10166 WILKINSON, G. Remaking a farm in a day. Reclam. Era 34: 215-216. Nov. 1948. 156.84 R24

In the Tucumcari irrigation project area, New Mexico.

10167 WRIGHT, P. H. Will China's living standards be ours? Saskatchewan Farmer 39(21): 8. Nov. 4, 1948. 7 Sa74

Soil conservation.

#### Sanitation

10168 ALBERT, C. L. Desinfektion der anzuchterde. Landpost 4(4): 4. Feb. 25, 1948. 18 L2329

10169 BASSÖE, E. Problems in soil fumigation. (In Danish.) Gart. Tid. 64: 145-146. Mar. 17, 1948. 80 G192

10170 FAULKNER, R. P. Soil sterilisation. Gard. Illus. 65: 216. Nov. 1948. 80 G169

10171 FREEMAN, J. F. Treatment of tobacco plant bed soils with methyl bromide. Down to Earth 4(3): 6-7. Winter 1948. 381 D75

10172 FUCHS, W. Neuere ausländische ergebnisse über bodenentseuchung mit chemischen mitteln. Z. f. Pflanzenkrankh. 55: 93-97. Ref. Mar./Apr. 1948. 464.8 Z3

10173 LEAR, B. The use of soil fumigants by the greenhouse operator. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 212-218. 1948. 81 V52

10174 NEWHALL, A. G., and LEAR, B. Soil fumigation for nematode and disease control. N. Y. (Cornell) Agr. Expt. Sta. B. 850, 32 p. Sept. 1948. 100 N48C

10175 SILVA, E. Field pests and fire. (In Portuguese.) Rev. Agron. 12: 72-73. Apr./June 1948. 9.2 R325

10176 SIMON, M. La désinfection du sol au moyen de fumigants volatils. Résultats du traitement, en 1947, d'une terre infectée de nématode de la betterave. Inst. Belge pour l'Amélior. de la Betterave. P. 16: 241-247. July/Aug. 1948. 66.9 In7

Flemish and English summaries.

10177 SIMON, M. J. La sterilisation des terres pour les cultures des plantes de serres en Grande-Bretagne. Courrier Hort. 10: 593-594. Oct. 1948. 80 C834

10178 SMITH, A. L. Soil fumigation for the control of cotton wilt and nematodes. Down to Earth 4(3): 12-13. Winter 1948. 381 D75

#### MATERIALS FOR SOIL IMPROVEMENT

10179 BARBIER, G., and TROCME, S. Vitesse de décomposition des scories dans le sol selon leur finesse de mouture. Acad. d'Agr. de France. Compt. Rend. 34: 799-803. June 30/July 7, 1948. 14 P215Bc

10180 BELOUS, I. A. Utilization of peat ashes. (In Russian.) Priroda 37(8): 34-38. Ref. Aug. 1948. 410 P933

Mentions also its use as fertilizer.

10181 BENEDICT, H. M. The effect of waste products from the guayule rubber mill on the growth of various crops. Amer. Soc. Agron. J. 40: 1005-1016. Ref. Nov. 1948. 4 Am34P

10182 GRILLOT, G., and DUFRESSE, M. Note sur l'utilisation du goémon marocain comme matière fertilisante. Terre Maroc. 20: 266-267. Oct. 1948. 24 T44

10183 HAURIE, M. Les engrais de marcs. Rev. Agr. de l'Afrique du Nord 45: 507-508. Oct. 24, 1947. 30 R326

10184 LENGLEN. Les fraudes en matière d'engrais et d'amendements. Terre d'Oc 30: 388-395. Sept. 1948. 14 Ar5

10185 MAYER, I. Was ist "biomull"? Gart.-Z. Illus. Flora 71: 146-147. Oct. 1948. 80 G1991

Kind of fertilizer.

10186 SHAW, W. M. The determination of the sulfide-sulfur content of calcium silicate slags in relation to their neutralization value. Assoc. Off. Agr. Chem. J. 31: 715-728. Nov. 15, 1948. 381 As7

10187 VONDY, T. L. Humus versus chemicals. Manx J. Agr. (n. s.) 3(2): 38-41. Oct. 1948. 10 M312

#### Primary Materials

10188 AIRAN, J. W. Phosphate from bagasse ash. Cur. Sci. 17: 262. Sept. 1948. 475 Sci23

10189 ANDREWS, W. B. The use of anhydrous ammonia as a source of nitrogen. Food & Agr. 7: 542-543. Aug./Sept. 1948. 389.8 F7326

10190 BUCHANAN, J. E. Idaho phosphate—resources, research, utilization. Fert. Rev. 23(6): 12. Nov./Dec. 1948. 57.8 F414

10191 CAIRNS, D. Western Australia's potash lakes. Fert., Feed. Stuffs & Farm Supplies J. 34: 671, 673-674. Dec. 1, 1948. 57.8 F413

10192 CATANI, R. A. The solubility of some types of phosphates in 2 percent citric acid. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 337-339. Sept./Oct. 1948. 9.2 R324

10193 CHAPMAN, L. T. Phosphates for fertilizers. Family Herald & Weekly Star 79(45): 5, 17. Nov. 10, 1948. 7 F21

Fertilizer manufacture in Canada.

10194 COLEMAN, F. B. Fertilizer facts for farmers. Queensland Agr. J. 67: 69-77. Aug. 1948. 23 Q33

Composition of various fertilizers.

10195 ELLIS, SIR A. New Zealand farms and the phosphate islands. New Zeal. Dairy Exporter 24(4): 9, 11-12. Oct. 1948. 44.8 N484

Second of two articles.

10196 FRODEN, R. E. Conviene transformar nuestro salitre en otros fertilizantes nitrogenados de distinta composición química? Agrario 13(401): 9, 15-16. Sept. 1948. 9.3 Ag85

10197 HAUMANN, A. K. Was man vom kali wissen muss. Thür. Gartenbau 1948: 155. Sept. 1948. 80 T42

10198 JOHNSON, R. This nitrogen business. Ariz. Farmer 27(23): 4-5. Nov. 13, 1948. 6 Ar44

Fixing nitrogen from engine fumes.

10199 LANG, A. L. Rock phosphate for direct application. Fert. Rev. 23(6): 9-12. Nov./Dec. 1948. 57.8 F414

10200 MOCINE, D. Produce agstone from a calcareous gravel. Rock Prod. 51(6): 126-127. June 1948. 299.8 R59

10201 OSELLA, E. Production of nitrogen. (In Italian.) Chimica 3: 175-177. May 1948. 385 C445

10202 PEREIRA, J. A. The advantage of constructing nitrate mines. (In Portuguese.) Frutas da Madeira 8: 137-138. Aug. 1948. 286.83 F9422

10203 SAUCHELLI, V. Which. ...N-K-P or N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O? Com. Fert. 77(5): 19-21. Nov. 1948. 57.8 C73

10204 SISTO, A. Nitrogeno para la agricultura mexicana. Hacienda 43(11): 46. Nov. 1948. 6 H11

10205 TINDALL, C. Magic for crops made in this huge plant. Mo. Ruralist 89(22): 3, 20. Nov. 27, 1948. 6 R8891

Manufacture of ammonium nitrate.



10206 TUCKER, H. H. From nuisance to necessity; the story of sulfate of ammonia. *Fert. Rev.* 23(6): 7-8. Nov./Dec. 1948. 57.8 F414

#### Secondary and Minor Element Materials

10207 LUNDBLAD, K. Importance of minor elements in fruit and berry growing. (In Swedish.) *Sveriges Pomol. För. Årsskr.* 1947: 48-56. 86 Sv2  
Chiefly on deficiency diseases.

10208 TROCME, S. Oligoéléments et maladies de carence. II. B. des Engrais 20: 420-422. Sept. 1948. 57.8 B87

10209 WALLACE, T. Soil conditions and mineral deficiencies of plants, with special reference to deficiencies of the trace elements iron, manganese, boron, zinc, copper and molybdenum. *Conf. Internatl. de Pédol. Méditer. Compt. Rend.* 1947: 248-266. Ref. 1948. 56.09 C766

#### Mixed Fertilizers and Fertilizer Technology

10210 CLARK, K. G., GADDY, V. L., and DAVIS, O. C. Nitrification characteristics of the water-insoluble nitrogen in mixed fertilizers. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 76-77. 1948. 4 C82

10211 CLOANINGER, B. D. Inspection and analysis of commercial fertilizers. S. C. Agr. Expt. Sta. B. 375, 33 p. Nov. 1948. 100 So8

10212 HOPKINS, D. P. Words and the fertilizer idea. *Fert., Feed Stuffs & Farm Supplies J.* 34: 615, 617-619, 621, 623-624. Nov. 3, 1948. 57.8 F413

10213 INDIANA. AGRICULTURAL EXPERIMENT STATION. Inspection of commercial fertilizers. *Ind. Agr. Expt. Sta. C.* 341, 44 p. May 1948. 100 In2P

10214 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial fertilizers in Kentucky, 1947, including a report on official fertilizer samples analyzed, July-December, 1947. *Ky. Agr. Expt. Sta. Regulat. B.* 65, 26 p. Oct. 1948. 100 K41

10215 LEITHE, W. Oxidimetric nitrate analysis of fertilizers and other commercial products. *Anal. Chem.* 20: 1082-1084. Nov. 1948. 381 J825A

#### Fertilizer Statistics

10216 AGERBERG, L. Fertilizer utilization in Norrland. (In Swedish.) *Växt-Närings-Nytt* 4(1): 12-14. 1948. 57.8 V47

10217 ÅKERMAN, A. Spring plant nutrition problems. (In Swedish.) *Växt-Närings-Nytt* 4(Spec. No.): 1-2. 1948. 57.8 V47

Fertilizer supply.

10218 BADER, F. Das manganproblem. *Landw. Wchnbl.* 138: 238. Sept. 4, 1948. 18 L2338  
Germany.

10219 CROWTHER, E. M. Fertilizers during the war and after. Bath and West and South. Counties Soc. *Pam.* 13, rev., 59 p. July 1948. 10 B32P

10220 DETURK, E. E. Fertilizers, fertilizer materials and rock phosphate used in Illinois during 1947. *Ill. Agr. Col. Ext. AG1360*, 3 p. Mar. 1948. 275.29 IL62Pag

10221 FEFFER, F. M. The fertilizer and insecticide industry in Arizona. *West. Grower & Shipper* 19(12): 127. Nov. 1948. 280.38 W52

10222 GARCIA GUIJARRO, L. Cuota de fertilizantes nitrogenados para España. *Agr. Levantino* 14(166): 3-5. Sept. 1948. 15 Ag85

10223 OVERSETH, O. E. Fertilizers for next year. *Calif. Citrog.* 34: 41. Nov. 1948. 80 C125

10224 OVERSETH, O. E. Post war development in western fertilizer industry. *West. Grower & Shipper* 19(12): 127, 148. Nov. 1948. 280.38 W52

10225 SALTER, R. M. World soil and fertilizer resources in relation to food needs. *Chron. Bot.* 11: 227-235. Summer 1948. 450 C46

10226 VIGGIANI, G. The agricultural Mezzogiorno: fertilizers. (In Italian.) *Gior. di Agr.* 57: 91. Apr. 20, 1947. 16 It1G

#### Mineral Soil Amendments

10227 BARNES, E. E. Fineness important in limestone meals. *Farm and Home Res.* [Ohio Sta.] 33: 162-165. Sept./Oct. 1948. 100 Oh3S

10228 CASTENMILLER, G. M. Lime in agriculture. (In Dutch.) *T.N.O.-Nieuws* 3: 41-44. Feb. 1948. 475 T11

10229 EVANS, C. E. Blast-furnace slags have liming value. *Farm and Home Res.* [Ohio Sta.] 33: 165-167. Sept./Oct. 1948. 100 Oh3S

10230 PERMAN, O. The lime problem in agriculture. (In Swedish.) *Växt-Närings-Nytt* 4(1): 9-11. 1948. 57.8 V47

10231 ROGERS, H. T. Relative value of calcium silicate slag and other liming materials. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 100-101. 1948. 4 C82

#### Manures and Composts

10232 BALDOCCHI, M. D. Utilization of sewage water in agriculture. *Italia Agr.* 85: 513-529. Sept. 1948. 16 It1

As fertilizer.

10233 BARRANCA, J. S. Informe sobre el guano de los Departamentos de Ica y Moquegua. *Co. Admin. del Guano, Peru. B.* 24: 65-79. May 1948. 57.9 C73B

10234 BERNARD, P. Ce que vaut un hectare de feuilles de betteraves. *Monit. Agr.* 1(38): 2. Oct. 3, 1948. 14 M744

Value as fertilizer and forage.

10235 CASCON, J. El estiercol. *Spain. Min. de Agr. Secc. de Pub., Prensa y Propag. Hojas Divulg.* 12-48 H, 12 p. June 1948. 15 H68

10236 COOK, H. L. Dollars you throw away. *Ohio Farm Bur. News* 28(4): 32-33. Nov. 1948. 6 Oh34  
Improper handling of manure.

10237 FRANCK, O. New method of taking care of manure. (In Swedish.) *Försök och Forskning* 4: 19. Feb. 1947. 11 F77

10238 GROOTENHUIS, J. A. Importance of good compost in horticulture. (In Dutch.) *Groenten en Fruit* 3: 504-505. Mar. 18, 1948. 80 G89

10239 HOLDEN, J. Compost. *New Zeal. Homes & Gard.* 18(7): 14. Oct. 1, 1948. 80 N4823

10240 LAGOS, J. A. La tierra vegetal o mantillo. *Agr. Costarricense* 6: 157. July/Aug. 1948. 8 Ag895

10241 LAIPPLE, E. Anwendung der wirtschaftseigenen dünger. *Landpost* 4(13): 4-5. July 10, 1948. 18 L2329

10242 MAGLADRY, R. D. Wealth from peat bogs. *Family Herald & Weekly Star* 79(50): 5. Dec. 15, 1948. 7 F21

The industry in New Brunswick.

10243 MANELL, E. Comparison of analyses of Swedish farmyard manure. (In Swedish.) *Sweden. Lantbrukshögsk. Jordbruksförsöksanst. Meddel.* 23, 16 p. Stockholm, 1948. 104 Up63

English summary.

10244 MEHLQUIST, G. A. L. The value of organic matter in gardening. *Begonian* 15: 226-229. Oct. 1948. 96.511 B39

10245 MILLER, J. P. Dried poultry fertilizer is by-product of broiler plant. *Pacific Poultryman* 52(11): 6, 27. Dec. 1948. 47.8 P112

10246 MONTEALEGRE, M. R. La evolución de la fabricación de composte en la América Central. *Inst. de Defensa del Café de Costa Rica. Rev.* 19: 93-97. June 1948. 68.28 C82

10247 MURAYAMA, S. J. Corral manure in horticulture. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 323-327. Sept./Oct. 1948. 9.2 R324

10248 NEISHTADT, M. I. 25 years of T'Sentral'naia Torffanai Opytaniia Stanfsia. (In Russian.) *Priroda* 37(6): 78-80. June 1948. 410 P933

Includes research on peat fertilizers.

10249 NELSON, A. One man's garden. *Organic Gard.* 13(6): 35. Dec. 1948. 56.8 Or3  
Compost preparation.

10250 NIKLEWSKI, B., WOJCIECHOWSKI, J., and KEMPIANKA, W. Production value of soluble humus in compost. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 251-270. 1948. 20.5 R59

English summary.

10251 OLSEN, L. C. Making manure from organic residues. *Ga. Agr. Expt. Sta. Press B.* 604, 1 p. Nov. 5, 1948. 100 G29P

10252 ORCHARD, E. R., and LUDORF, R. The composition and use of Karoo manure. *Union So. Africa. Dept. Agr. B.* 298, 21 p. 1948. 24 So84P



- 10253 ROBL, J. Behandlung und verwendung der jauche. *Burgenländische Bauernbündler* 1(16): 8. Sept. 10, 1948. 19 B91
- 10254 RODALE, J. I. Grinding leaves. *Organic Gard.* 13(6): 12-15. Dec. 1948. 56.8 Or3
- 10255 TROSSBACH, G. Landwirtschaftliche verwertung von müll. In *Könemann, E. Siedlung als aufgabe der inneren Kolonisation*, p. 24-27. Lüneburg, Ger., 1947. 282.2 K832
- 10256 WINTERS, S. R. Barnyard manure vs. green manure. *Hoard's Dairyman* 93: 861. Nov. 25, 1948. 44.8 H65

## FORESTRY

## FOREST ECONOMICS AND POLICY

- 10257 AMERICAN FOREST PRODUCTS INDUSTRIES. Tree farms; planning a program. Washington, 1948? 8 p. 99.55 Am3T
- 10258 AMIDON, B. After the impatient ax; the waste of our timber wealth, the slow spread of enlightened forestry, dramatize the need for farsighted national conservation policy and practice. *Survey Graphic* 37: 467-471. Nov. 1948. 280.8 C37G
- 10259 ANDERSON, M. L. Impressions of forestry in Finland. *Empire Forestry Rev.* 27: 31-44. July 1948. 99.8 Em72
- 10260 BÖHMER, J. G. Appraisal of Norwegian forests. (In Norwegian.) *Tidsskr. for Skogbruk.* 55: 294-296. Oct./Nov. 1947. 99.8 T432
- 10261 BOURGES-MAUNOURY. Plantation de peupliers: exemption trentenaire d'impôt foncier. *Soc. Forest. de Franche Comté et Provs. de l'Est. B. Trimest.* 25: 282-283. Sept. 1948. 99.9 Sol4
- 10262 COFFEY, T. M. Afforestation for Bengal. *Irish Forestry* 4: 27-29. Oct. 1947. 99.8 Ir4
- 10263 COURREGELONGUE, R. Le Fonds Forestier National. *Bois et Résineux* 30(1476): 1. Oct. 20, 1948. 99.82 B63
- 10264 DEMMON, E. L. Forestry situation in the Lake States. U. S. Forest Serv. Lake States Forest Expt. Sta. Paper 13, 6 p. Sept. 1948. 1.9622 L2St2
- 10265 DEMMON, E. L. Minnesota forestry needs. *Conserv. Volunteer* 11(66): 29-32. Sept./Oct. 1948. 279.8 C765
- 10266 DODD, N. E. The three programs of FAO. *Unasylya* 2: 158-159. July/Aug. 1948. 99.8 Un1 Forestry.
- 10267 DOWLING, E. J. Possibilities of Pinus utilisation. *Austral. Timber J.* 14: 451, 453, 478-479. Aug. 1948. 99.81 Au7
- 10268 DUBRET, R. Un livre de chevet. *Bois et Scieries* 54: 699-700. Sept. 23, 1948. 99.81 B632
- Forest situation in France.
- 10269 FORBES, A. C. The forestry revival in Eire. *Irish Forestry* 4: 11-26. Oct. 1947. 99.8 Ir4
- 10270 FREEMAN, R. Analysis of Canada-U.K. timber trading problems. *Timber Canada* 9(3): 44-46. Nov. 1948. 99.81 T487
- 10271 FREEMAN, R. Is lumber playing its full part in British recovery? *Timber Canada* 9(2): 44-46. Oct. 1948. 99.81 T487
- 10272 GLÄSER, H. Preisdisziplin halten! *Holz-Zentbl.* 74: 467-468. Oct. 26, 1948. 99.81 H742
- 10273 GODWIN, G. Canada needs a national forest policy. *Forest & Outdoors* 44(11): 7, 21, 32. Nov. 1948. 99.8 C16
- 10274 GOUIN, T. Avant les ventes de coupes de bois. *Bois et Résineux* 30(1475): 1. Oct. 10, 1948. 99.82 B63
- 10275 HARDY, F. La política forestal de la Gran Bretaña. *Montes* 4: 411-413. Sept./Oct. 1948. 99.8 M763
- 10276 HASEL. Zur frage der forstlichen zahlungsbedingungen. *Holz-Zentbl.* 74: 469. Oct. 26, 1948. 99.81 H742
- 10277 HEDEMANN-GADE, E. Possibilities for return in forestry. (In Swedish.) *Skogen* 35: 243. Nov. 1, 1948. 99.8 Sk51
- Chiefly on taxation.
- 10278 HENSLE, Betrachtungen über "angemessene" holzpreise. *Holz-Zentbl.* 74: 419. Oct. 8, 1948. 99.81 H742
- 10279 HETTERICH, G. Ein musterbeispiel aus der praxis. *Holz-Zentbl.* 74: 467-468. Oct. 26, 1948. 99.81 H742
- Prices.
- 10280 HOBEL, R. Währungsumstellung und kaufpreisverbindlichkeiten aus holzlieferungen der bayerischen staatsforstverwaltung. *Holz-Zentbl.* 74: 437-438, 458-459. Oct. 15-22, 1948. 99.81 H742
- 10281 HOWARD, T. Ol' Alabama going into tree growing business in big way: 18 million seedlings. *Ala. Conserv.* 20(4): 11, 15. Oct. 1948. 279.8 Al1
- 10282 IGOT, Y. Une administration utile— les Eaux et Forets. *Monit. Agr.* 1(37): 18. Sept. 26, 1948. 14 M744
- 10283 KALLBRUNNER, H. Bestehen unüberbrückbare gegensätze zwischen land- und forstwirtschaft? *Allg. Forst- u. Holzwirtschaft. Ztg.* 59: 153-154. Oct. 1948. 99.8 AL53
- 10284 KIDSON, A. L. Forestry in New Zealand. *Wood [London]* 13: 311-313. Nov. 1948. 99.82 W855
- 10285 KIERULF, T. We must also make West Norway well forested. (In Norwegian.) *Tidsskr. for Skogbruk.* 55: 231-236. Aug./Sept. 1947. 99.8 T432
- 10286 KOENIG, P. Tree farmers and industry. *Paper Mill News* 71(47): 14, 16. Nov. 20, 1948. 302.8 P195
- 10287 KOSTER, K. Eine einkaufsreise durch Hessen. *Holz-Zentbl.* 74: 439-440. Oct. 15, 1948. 99.81 H742
- 10288 KRUEDENER, A. FREIHERR VON. Holzsparmassnahmen und aufforstung. *Kurzbriefe f. Ernähr. u. Landw.* 2: A IV 1, 4 p. Feb. 1948. 281.8 K96
- 10289 LAPPI-SEPPÄLÄ, M. Current problems in Finnish forestry. (In Norwegian.) *Tidsskr. for Skogbruk.* 55: 241-244. Aug./Sept. 1947. 99.8 T432
- 10290 MARTINELLI, M., JR. The conversion of flat-rate stumpage value to specific rate for individual tree grade. *J. Forestry* 46: 844-845. Nov. 1948. 99.8 F768
- 10291 MARTINEZ HERMOSILLA, P. Pidiendo una industria de interés forestal. *Montes* 4: 243-248. May/June 1948. 99.8 M763
- Spain.
- 10292 MERENDI, A. The timber situation; destruction without precedent. (In Italian.) *Gior. di Agr.* 58: 296. Oct. 24, 1948. 16 It1G
- 10293 MULLER, R. A. Wood—where are we going? *Timber Canada* 9(3): 36-38. Nov. 1948. 99.81 T487
- 10294 PORTER, W. H. Europe is telling us. In *Conf. on Conserv. in So. Cent. Ontario, 1946. Conserv. in So. Cent. Ontario*, p. 90-93. 1948. 279.135 C76
- Forest policy.
- 10295 PRAT, C. La politique des prix. *Bois et Résineux* 30(1476): 1. Oct. 20, 1948. 99.82 B63
- 10296 RIEBEL, F. Bodenwert und rentabilität des mittelwaldes. *Allg. Forst- u. Holzwirtschaft. Ztg.* 59: 155. Oct. 1948. 99.8 AL53
- 10297 SARGOS, R. Les ventes de coupes de pins des Landes. *Bois et Résineux* 30(1478): 2. Nov. 10/20, 1948. 99.82 B63
- 10298 SCHECHNER, H. Nochmals: zur preisfreiheit am holzmarkt. *Holz-Zentbl.* 74: 410-411. Oct. 5, 1948. 99.81 H742
- 10299 SEIGWORTH, K. J. Reforestation in the Tennessee Valley. *Pub. Admin. Rev.* 8: 280-285. Autumn 1948. 280.8 P964
- 10300 SHOW, S. B. Organization and job of the Forestry and Forest Products Division of FAO. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 111-112. 1948. 4 C82
- 10301 VASIL'EV, P., and NEVZOROV, N. Lesnoe khoziaistvo i lesnaia promyshlennost' SSSR [Forest economy and lumber industry of U. S. S. R.]. Moskva, Gosplanizdat, 1948. 106 p. 99.66 V44
- 10302 WILSON, J. O. Implementing the forest policy. *Timber Canada* 9(2): 42-43, 57-58. Oct. 1948. 99.81 T487
- 10303 WILSON, S. A., and MALONE, P. E. Instability of forest land ownership in western Oregon and Washington, 1932-1941. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Paper 1, 57 p. June 1948. 1.9622 P2R31

## Legislation

- 10304 BOULTER, E. L. Nova Scotia's Small Tree Conservation Act. *J. Forestry* 46: 827-828. Nov. 1948. 99.8 F768



- 10305 LENSKIĬ, L. Materialy po istorii sotsialisticheskogo lesnogo zakonodatel'stva (1917-1945 gg.) [Data on the history of socialist forestry legislation (1917-1945)]. Moskva, Gos. Lesotekhn. Izd-vo, 1947. 322 p. 99.59 L54
- 10306 MESCHINO, A. The workers in forestry and reclamation of the Fanfani Plan. (In Italian.) Ital. Forest. e Mont. 3: 225-229. July/Aug. 1948. 99.8 It12 Legislation.
- 10307 WOLF, R. E. A partial survey of forest legislation in New York State. J. Forestry 46: 841. Nov. 1948. 99.8 F768  
Abstract of thesis.

## FOREST DESCRIPTION AND RESOURCES

- 10308 AMIDON, G. B. Pulpwood supply situation in the Lake States. Amer. Pulpwood Assoc. Ann. Mtg. 14: 11-13. 1948. 99.9 Am33
- 10309 BARNES, A. S. L. The forests of the Humber. In Conf. on Conserv. in So. Cent. Ontario, 1946. Conserv. in So. Cent. Ontario, p. 13-22. 1948. 279.135 C76  
Discussion, p. 23-24.
- 10310 BATHEN, R. Forest conditions in Troms. (In Norwegian.) Tidsskr. for Skogbruk. 56: 3-15. Jan./Feb. 1948. 99.8 T432
- 10311 BLAKELEY, G. M. Northeast pulpwood supply situation. Amer. Pulpwood Assoc. Ann. Mtg. 14: 14-17. 1948. 99.9 Am33
- 10312 DELAHEY, W. A. Canadian pulpwood supplies. Amer. Pulpwood Assoc. Ann. Mtg. 14: 18-19. 1948. 99.9 Am33
- 10313 DUBOIS DE LA SABLONIERE. Les forêts du Centre et leur avenir. Soc. Forest. de Franche Comté et Provs. de l'Est. B. Trimest. 25: 268-271. Sept. 1948. 99.9 So14
- 10314 EKMAN, S. G. General impressions of forest conditions in North America. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 33-40. 1948. 99.8 Sk5
- 10315 EMMERLING, A. M. Forests of Oklahoma. Amer. Forests 54: 554-555, 574. Dec. 1948. 99.8 F762
- 10316 ESTÉVEZ, I. El aumento de las áreas forestales. Mensajero Forest. 6(57): 3-4. July 1948. 99.8 M522  
Mexico.
- 10317 FLORY, C. H. Forest resources of South Carolina. Forest Farmer 7(2): 6-7. Nov. 1948. 99.8 F7692
- 10318 FOREST resources of the world. Unasylva 2: 160-182. July/Aug. 1948. 99.8 Un1
- 10319 GALLEZ, P. Paisaje y riqueza forestal del Congo belga. Montes 4: 297-304. July/Aug. 1948. 99.8 M763
- 10320 GEETE, E. Forests gain ground in Iceland. (In Swedish.) Skogsägaren 24: 206-209. Oct. 1948. 99.8 Sk55
- 10321 GOMEZ ROMERO, F. Nuestra experiencia adquirida en la selva tropical. Chapingo 23: 51-53. July 1948. 102 C36  
Mexican forests.
- 10322 HÅKANSSON, T. Changes in the forest landscape in Konga parish in Scania during 300 years. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 239-264. Ref. 1948. 99.8 Sk5
- 10323 HAZARD, J. O. Forest resources of Tennessee. Forest Farmer 8(3): 6. Dec. 1948. 99.8 F7692
- 10324 HENRY, D. L., and LUTTRELL, C. B. Forest resources in the Eighth Federal Reserve District. Fed. Reserve Bank St. Louis. Monthly Rev. 29: 133-141. Dec. 1, 1948. 284.8 F31Sa
- 10325 HESKE, F. Der tropenwald als rohstoffquelle Europas. Z. f. Weltforstw. 12: 61-90. Ref. Sept. 1948. 99.8 Z35  
English and French summaries.
- 10326 IHLEN, N. N. Impressions from Swiss forests. (In Norwegian.) Tidsskr. for Skogbruk. 55: 277-281, 336-343. Oct.-Dec. 1947. 99.8 T432
- 10327 IORNS, M. Future of New Zealand forest. Forest & Bird 87: 8-9. Feb. 1948. 413 N42
- 10328 LI, Y. H. Forest resources in the Hainan Island. (In Chinese.) Monthly Farmers' Bank China 9(5): 20-25. May 1948. 281.9 F225M  
English summary.
- 10329 MINCKWITZ, H. V. "Geschichtliches von den Kammern des mittleren thüringer waldes. Forstwirtschaft., Holzwirtschaft. 2: 317-319. Oct. 15, 1948. 99.8 F7793
- 10330 NORIEGA C., E. Informe sobre el bosque de "Santa Lucía" de propiedad de la Sociedad de Beneficiencia Pública de Ica, ubicado en el Distrito de Santiago, de la Provincia y Departamento de Ica. Peru. Com. Nac. de Protec. a la Nat. B. 5(1): 37-43. 1948. 279.9 P43
- 10331 ROBBINS, P. W. Wood production on the Dunbar Forest. Lake States Timber Digest 3: 13-14. Oct. 21, 1948. 99.81 L14  
Michigan.
- 10332 SABROE, A. S. Growth and cutting in the world forests. (In Danish.) Dansk Skovfor. Tidsskr. 33: 108-113. Mar. 1948. 99.8 D23
- 10333 STAUFFER, J. M. Forest resource of Alabama. Cross Tie B. 29(11): 40, 42, 44, 46. Nov. 1948. 99.82 C87
- 10334 U. S. FOREST SERV. Angelina National Forest, Texas. Washington, 1948. Map. 1 F765Ma
- 10335 U. S. FOREST SERV. Ashley National Forest, Utah and Wyoming. Washington? 1948. Map. 1 F765Ma
- 10336 U. S. FOREST SERV. Cache National Forest, Idaho and Utah. Washington? 1948. Map. 1 F765Ma
- 10337 U. S. FOREST SERV. Caribou National Forest, Idaho, Utah and Wyoming. Washington? 1948. Map. 1 F765Ma
- 10338 U. S. FOREST SERV. Caribou National Forest, Idaho, Utah, Wyoming. Washington, 1948. 17 p. 1 F76232C
- 10339 U. S. FOREST SERV. Davy Crockett National Forest, Texas. Washington, 1948. Map. 1 F765Ma
- 10340 U. S. FOREST SERV. CENTRAL STATES FOREST EXPERIMENT STATION. Forest resources of Missouri. U. S. Forest Serv. Central States Forest Expt. Sta. Forest Survey Release 6, 19 p. Sept. 1948. 1.9622 C3F76
- 10341 WATTS, L. F. Fifty years of forestry in the Black Hills. Washington, U. S. Forest Serv., 1948. 5 p. 1.962 A2W34  
Establishment of Black Hills National Forest.
- 10342 WINCHESTER, H. A. Forestry in Scotland. Estate Mag. 48: 381-382. Nov. 1948. 10 Es8
- 10343 WOHLLENBERG, E. T. F. Timber and forestry situation on the Pacific Coast. Amer. Pulpwood Assoc. Ann. Mtg. 14: 5-10. 1948. 99.9 Am33
- 10344 XIMÉNEZ DE EMBÚN, J. Sobre estética forestal y parques nacionales: el bello monte valldemosino y la técnica. Montes 4: 305-312. July/Aug. 1948. 99.8 M763

## Individual Genera and Species

- 10345 ALBERTS, H. W. La yareta. Peru. Com. Nac. de Protec. a la Nat. B. 5(1): 19-21. 1948. 279.9 P43  
Azorella yareta.
- 10346 ALLHEIMEN, H. Brazil Araucaria or "Brazil pine". (In Norwegian.) Tidsskr. for Skogbruk. 55: 289-292. Oct./Nov. 1947. 99.8 T432  
A. angustifolia.
- 10347 ARNBORG, T. What shall we name our birches? (In Swedish.) Skogen 35: 258-259. Nov. 15, 1948. 99.8 Sk51
- 10348 AUDET, L. P. Derniers accords en vert. Paysana 2(8): 4-5. Oct. 1948. 7 P29  
Canadian conifers.
- 10349 BARRETT, H. B. The natural and artificial regeneration of teak in Burma. Irish Forestry 4: 4-10. Oct. 1947. 99.8 Ir4
- 10350 BEHM, H. W. Die eiche. Natur u. Nahr. 2(17/18): 2. Sept. 1948. 80 N218
- 10351 BOTTENBURG, M. VAN. Sumatra's pine forest. (In Dutch.) Landbouwk. Tijdschr. 59: 352-358. Aug./Sept. 1947. 105.2 Or3
- 10352 CABALLERO, P. J. Comentarios sobre una muestra rara de abeto [Picea abies]. Mensajero Forest. 6(57): 6-8. July 1948. 99.8 M522
- 10353 DUGELAY, A. L'Ostrya carpinifolia dans les Alpes-Maritimes. Rev. des Eaux et Forêts 87: 425-438. (Concl.) Oct./Nov. 1948. 99.8 R322
- 10354 GARON, E. Le tremble et son emploi. Forêt Québécoise 13: 633-636. Oct. 1948. 99.8 F79
- 10355 GUINIER, P. Le peuplier et son utilisation en Italie. Rev. du Bois 3(9/10): 12-13. Sept./Oct. 1948. 99.82 R32



- 10356 GUINIER, P., MEUNIER, and REGNIER. Progrès à réaliser dans la culture et l'utilisation du peuplier. *Action Forest. et Piscicole* 134: 1. (To be cont.) Sept. 1948. 99.8 Ac8
- 10357 HELGESEN, J. A. Raivola-larch in Salten. (In Norwegian.) *Skogbrukeren* 23: 70-71. Apr. 1, 1948. 99.8 Sk54
- 10358 LARDNER, G. B. S. Timbers of British and Dutch Guiana. *Wood* [London] 13: 280-282. Oct. 1948. 99.82 W855
- 10359 MOROZOV, I. R. Methods of mass cultivation of willows on the plantations. (In Russian.) *Vsesoŭzn. Nauch. Issled. Inst. Agrolesomeliior. Itogi Rabot* 1944/45: 213-220. 1947. 106 M859
- 10360 NELSON, A. L. Hemlock—a Minnesota visitor. *Conserv. Volunteer* 11(66): 46-47. Sept./Oct. 1948. 279.8 C765
- 10361 NORBÄCK, G. Mixed stand of oak and spruce. (In Swedish.) *Svenska Skogsvårdsför. Tidskr.* 46: 19-24. 1948. 99.8 Sk5
- 10362 NOVIKOV, G. A. Dissemination of oak by the European jay. (In Russian.) *Priroda* 37(3): 69-70. Mar. 1948. 410 P933
- 10363 OAKS in Colorado. *Green Thumb* 5(10): 15-22. Oct. 1948. 80 G82
- 10364 PHILIPPIS, A. DE. Chestnut plantings in the Italian Peninsula. *Schweiz. Z. f. Forstw.* 99: 483-490. Sept./Oct. 1948. 99.8 J82  
German summary.
- 10365 POINSIER, J. L. Note complémentaire sur le parasolier. *Bois et Forêts des Trop.* 6: 131-132. Second Quart. 1948. 99.8 B632  
Musanga smithii.
- 10366 RICHARDSON, J. R. T. Balsa—Ceylon's new industry. *Canad. Geog. J.* 37: 230-235. Nov. 1948. 470 C162
- 10367 SABROE, A. S. Three Japanese hardwood trees. (In Danish.) *Dansk Skovfor. Tidsskr.* 33: 100-107. Mar. 1948. 99.8 D23  
*Kalopanax pictus*, *Cercidiphyllum japonicum*, and *Betula maximowicziana*.
- 10368 SMITH, N. F. Michigan trees worth knowing: honeylocust, *Gleditsia triacanthos*, L. *Mich. Conserv.* 17(10): 14. Oct. 1948. 279.9 M582  
Honeylocust
- 10369 WARDLE, H. H. Of beech and birch. *Trees* [Dorchester] 12: 90-92. Autumn 1948. 99.8 T714
- 10370 WITTE, A. Current increment value of oak; contribution to the problem of the economy of oak culture. (In Swedish.) *Skogen* 35: 231. Oct. 15, 1948. 99.8 Sk51
- 10371 XIMÉNEZ DE EMBÚN, J. Aclimatación de especies exóticas. Balearic Isl. *Diputación Prov. B. de Agr.* 45: 4-6. (To be cont.) June 1948. 15 B19  
Trees.
- 10372 ZIEGER, E. Über den anbau des hirschkolbensumach. *Forstw., Holzw.* 2: 248-252. Ref. Aug. 15, 1948. 99.8 F7793
- ### FOREST ADMINISTRATION AND MANAGEMENT
- 10373 ANDRÉN, T., and WELANDER, E. Aerial maps in practical forestry. (In Swedish.) *Norrlands Skogsvårdsförbund. Tidskr.* 1948(1): 97-118. 99.9 N77
- 10374 ARRUDA VEIGA, A. DE. Rational forest exploitation. (In Portuguese.) *Chacaras e Quintais* 78: 341-342. Sept. 15, 1948. 9.2 C34
- 10375 BLOCH, F. A. Holz und forst in USA. *Holz-Zentbl.* 74: 449. Oct. 19, 1948. 99.81 H742
- 10376 BUENAVENTURA, P. S. Power behind the wheels. *Philippine Isl. U. Forestry Leaves* 2(5): 23, 28. July 1948. 99.8 P532  
Philippine Bureau of Forestry.
- 10377 DANIELSON, U. Labor and contract conditions in forestry in North America. (In Swedish.) *Svenska Skogsvårdsför. Tidskr.* 46: 51-58. 1948. 99.8 Sk5
- 10378 DIETERICH, V. Raum und zeit im forstwissenschaftlichen planen und rechnen. *Forstwiss. Centbl.* 67: 18-31. Oct. 1948. 99.8 F775
- 10379 EDLIN, H. L. Forest planning. *Timber News* 56: 428, 431. Nov. 1948. 99.81 T482
- 10380 FISCHER, J. C. The district forester and the district forest council arrangement. (In Norwegian.) *Tidsskr. for Skogbruk.* 56: 141-152. July/Aug. 1948. 99.8 T432
- 10381 GARCÍA DÍAZ, E. Como aumentar la producción de nuestros montes. *Montes* 4: 293-296. July/Aug. 1948. 99.8 M763  
Spain.
- 10382 GARCÍA DÍAZ, E. Como tratar los montes de propiedad particular. *Surco* [Madrid] 7(77): 20-24. July 1948. 15 Su7
- 10383 GEORGESCU, C. C. Some new problems of the Roumanian forestry. (In Romanian.) *Rev. Pădurilor* 63: 79-87. May/June 1948. 99.8 R327  
French summary.
- 10384 GORBY, G. Trees for tomorrow. *W. Va. Conserv.* 12(8): 14, 22. Nov. 1948. 279.8 W524  
Forest conservation.
- 10385 HALL, A. G. Trees for tomorrow. *Amer. Forests* 54: 540-542, 572, 573. Dec. 1948. 99.8 F762
- 10386 HAUG, G. C., and ALLISON, J. H. Governmental regulation of cutting practices on privately owned forests in Sweden. *J. Forestry* 46: 799-806. Ref. Nov. 1948. 99.8 F768
- 10387 KOLBE, E. L. How forest management prevents a timber famine. *Wood Construct.* 34(11): 24-25. Nov. 1948. 99.81 W852
- 10388 LIDL, Der bayerische privatwald und seine leistung. *Landw. Wchnbl.* 138: 221. Aug. 28, 1948. 18 L2338
- 10389 LINDQUIST, B. Forestry and our wood supply. (In Swedish.) *Svenska Skogsvårdsför. Tidskr.* 46: 1-9. 1948. 99.8 Sk5  
Forest management.
- 10390 LONKHUYZEN, J. P. VAN. Development of forestry. (In Dutch.) *Nederlandsch. Heidemaatsch. Tijdschr.* 59: 101-141. Mar. 1948. 12 N282
- 10391 LUDVIGSEN, F. P. Management of farm forests. (In Norwegian.) *Tidsskr. for Skogbruk.* 56: 16-21. Jan./Feb. 1948. 99.8 T432
- 10392 MALAYA. FOREST DEPT. Report, 1946. Kuala Lumpur, 1948. 40 p. 99.9 F31
- 10393 MOWAT, E. L. Selection cutting reduces ponderosa pine losses at Pringle Falls. *U. S. Forest Serv. Pacific Northwest Forest Expt. Sta. Forest Res. Note* 45, 3 p. Oct. 13, 1948. 1.9 F7629Fr
- 10394 NEW ENGLAND FORESTRY FOUNDATION. Complete forestry service offered to woodland owners at cost. Boston, 1948? 4 p. 99.9 N442Ne
- 10395 NORSKE SKOGSELSKAP. Annual report of the Norwegian Forest Association for 1947. (In Norwegian.) Oslo, 1948. 34 p. 99.9 N813
- 10396 REYNOLDS, H. A. The "new look" in forestry. *Forest & Park News* 13(4): 3-4. Oct. 1948. 99.8 F7693
- 10397 SARAWAK. FOREST DEPT. Annual report, 1947. Kuching, 1948. 16 p. 99.9 Sa72
- 10398 SCHULER, K. Forst- und holzwirtschaft in Frankreich während der deutschen besetzung 1940-1944. *Holz-Zentbl.* 74: 419-420, 423, 425. Oct. 8, 1948. 99.81 H742
- 10399 SERRANO, P. La Guardia Civil en la custodia de los montes públicos. *Montes* 4: 335-336. July/Aug. 1948. 99.8 M763  
Spain.
- 10400 SHAW, A. C. The Champion Paper and Fibre Company forestry program. *Amer. Pulpwood Assoc. Ann. Mtg.* 14: 41-43. 1948. 99.9 Am33
- 10401 TAYLOR, N. N. Future pulpwood for Wisconsin mills. *Paper Mill News* 71(49): 16, 18, 20. Dec. 4, 1948. 302.8 P195
- 10402 TENG, S. C. Study of the methods for managing natural forest areas in China. (In Chinese.) *Monthly Farmers' Bank China* 9(5): 1-19. May 1948. 281.9 F225M
- 10403 UNION OF SOUTH AFRICA. DEPT. OF FORESTRY. Annual report, 1946/47. Pretoria, 1948. 14 p. 99.9 So84R
- 10404 VÖRY, J. Special circumstances and difficulties of rationalisation in forestry work. (In Finnish.) *Suomen Paperi- ja Puutavara-lehti* 30: 375-382. Nov. 15, 1948. 302.8 P1991  
English summary.
- 10405 WIEDEMANN, E. Grundsätzliche fragen des lastenausgleichs in der forstwirtschaft. *Forst u. Holz* 3: 165-166, 170-173. Sept. 1-15, 1948. 99.8 F7724
- ### Farm Woodlands
- 10406 ALBRECHT, F. Bestandsaufnahme im kleinprivatwald. *Landpost* 4(6): 3. Mar. 25, 1948. 18 L2329  
Germany.
- 10407 ANDERSON, W. R., and METEER, J. W. Making farm forestry pay. *Ohio Forestry Assoc. News B.* 1(2): 1-2. Sept. 1948. 99.9 Oh34



- 10408 BANFIELD, G. L. Pussy willow as farm shelter on Hauraki Plains. New Zeal. J. Agr. 77: 279. Sept. 1948. 23 N48J
- 10409 BÖHRINGER, W. Holzschutz in der landwirtschaft. Landpost 4(6): 2. Mar. 25, 1948. 18 L2329 Germany.
- 10410 BROMLEY, S. W. Woodland improvement. Arborist's News 13(11): 101. Nov. 1948. 99.8 Ar14
- 10411 CUTHBERTSON, E. G. The athel tree (*Tamarix (aphylla) articulata*), valuable for shelter belts. Agr. Gaz. N. S. Wales 59: 395-398, 402. Aug. 1948. 23 N472
- 10412 D'IACHENKO, A. E. On the width of shelter-belts. (In Russian.) Vsesoiuzn. Nauch. Issled. Inst. Agrolsomeliior. Itogi Rabot 1944/45: 73-97. Ref. 1947. 106 M859
- 10413 DIMITRI, M. J. El problema forestal argentino: utilidad y formación de bosques periurbanos. Montes 4: 200. May/June 1948. 99.8 M763
- 10414 DRUMMOND, J. P. Care is the watchword for shelterbelts. Mont. Farmer-Stockman 36(7): 1, 19. Dec. 1, 1948. 6 M764
- 10415 JENKINS, M. B. Shelter belts and security. Nebr. State Irrig. Assoc. Proc. 55: 29-33. 1947. 55.9 N27P
- 10416 JOHNS, H. Any timber on your farm? Purdue Agr. 40: 10, 19. Oct. 1948. 6 P97
- Farm woodlot management.
- 10417 LOCKE, S. First aid in forestry. Lake States Timber Digest 2(26): 8. Oct. 7, 1948. 99.8 L14
- Farm woodlands.
- 10418 MATTHEWS, T. G. Trees in Guernsey. Trees [Dorchester] 12: 96-97. Autumn 1948. 99.8 T714
- Windbreaks.
- 10419 NEETZEL, J. R. Distribution of Minnesota farm woodland. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 303, 2 p. Oct. 1948. 1.9 F7625T
- 10420 NIELAND, L. T. Marketing farm timber wisely. Fla. Grower 56(12): 18-19. Dec. 1948. 80 F6622
- 10421 ORR, J. L. New species for profit. Forest Farmer 8(3): 5, 10. Dec. 1948. 99.8 F7692
- 10422 RICHARDS, E. C. Trees and crops. Trees [Dorchester] 12: 83-84. Autumn 1948. 99.8 T714
- Windbreaks in New Zealand.
- 10423 STOECKELER, J. H., and ARBOGAST, C. F. Second annual timber harvest field day. Lake States Timber Digest 3(4): 4. Dec. 2, 1948. 99.8 L14
- 10424 STRAIT, E. D. The farm woods, a reserve crop. Northeast 1948: 20-21. Summer 1948. 284.28 N81
- 10425 U. S. FOREST SERV. Norris-Doxey woodland management cooperation, 1948; narrative portion of annual progress report. Washington? 1948. 8 p. 1.962 A2N79
- 10426 WATT, L. C. Money does grow on trees. Better Farms 8(12, i. e., 10): 6. Oct. 15, 1948. 6 B462
- Farm woodlot management.

## Mensuration

- 10427 BARÓ Y ZORRILLA, D. F. Alrededor del estéreo. Montes 4: 185-195. May/June 1948. 99.8 M763
- 10428 BENASSI, L. The method of the single sample tree in the calculation of wood volume. (In Italian.) Ital. Forest. e Mont. 3: 238-240. July/Aug. 1948. 99.8 It12
- 10429 BUSSE, J. Schlüssel zur waldwertrechnung. Ludwigeburg, Ulmer, 1948. 77 p. 99.57 B96
- 10430 CERVERA IBANEZ, J. M. Errores en los conteos. Montes 4: 415-425. Sept./Oct. 1948. 99.8 M763
- 10431 CONSTANTINESCU, G. I. Optic mensuration of the horizontal and inclined distances. (In Romanian.) Rev. Pădurilor 63: 75-78. May/June 1948. 99.8 R327
- French summary.
- 10432 COX, H. A. Determination of yield. Wood London] 13: 319. Nov. 1948. 99.82 W855
- 10433 DELGADO, P. P. R. DA S. A rapid and exact method of estimating the cubic content of felled trees. (In Portuguese.) Agros 31: 198-202. July/Aug. 1948. 15.5 Ag82
- 10434 FENTON, R. H. Wood content of stacked 4-foot round pulpwood in Connecticut. U. S. Forest Serv. Northeast. Forest Experiment Stat. Paper 17, 8 p. Aug. 1948. 1.9622 N2St22

- 10435 FREDERIKSEN, J. A. Solid cubic volume mensuration of forest products. (In Danish.) Dansk Skovfor. Tidsskr. 33: 85-99. Mar. 1948. 99.8 D23
- 10436 GEVORKIANTZ, S. R., and OLSEN, L. P. An improved increment-core method for predicting growth of forest stands. U. S. Forest Serv. Lake States Forest Expt. Sta. Paper 12, 19 p. July 1948. 1.9622 L2St2
- 10437 GRIFFITH, A. L., RAM, B. S., and PRASAD, J. General standard and commercial volume tables for *Terminalia tomentosa*, W. and A. Indian Forest Rec. New Ser., Silv. 4-A: 290-305. 1947. 99.8 In22S
- 10438 MOESSNER, K. E. The aerial photo-scale. J. Forestry 46: 843-844. Nov. 1948. 99.8 F768
- 10439 POBLACIÓN, G. Comparison of the Brereton, the Doyle-Scribner and the Bureau of Forestry scales. Philippine Isl. U. Forestry Leaves 2(5): 7-8, 25-28. July 1948. 99.8 P532
- 10440 SPURR, S. H. Aerial photography. Unasylva 2: 183-194. July/Aug. 1948. 99.8 Un1
- 10441 STAEBLER, G. R. Use of dominant tree heights in determining site index for Douglas-fir. U. S. Forest Serv. Pacific Northwest Forest Expt. Sta. Forest Res. Note 44, 3 p. Sept. 1, 1948. 1.9 F7629Fr
- 10442 VIGERUST, A. Table to aid in a rough estimation of spruce. (In Norwegian.) Skogbrukeren 23: 71-72. Apr. 1, 1948. 99.8 Sk54
- 10443 WANNER, J. Die altersklassenbewegung. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 155-156. Oct. 1948. 99.8 AL53

## FOREST PROTECTION AND DAMAGE

References on forest insects are classified with Entomology; references on diseases of trees with Plant Pathology.

- 10444 KINBERG, W. Annual report, 1947, on the protection of wood from decay, noxious animals and fire. Stockholm, 1947. 103 p. 300.8 J19

Text in English and German.

- 10445 LAURENTIAN FOREST PROTECTIVE ASSOCIATION, LIMITED. Annual report, 31, 1947. Quebec, 1947. 32 p. 99.9 L37

## Fire

- 10446 ADAMS, M. O. Demountable transport bed for 50-man fire unit. U. S. Forest Serv. Fire Control Notes 9(4): 44-46. Oct. 1948. 1 F766Fi
- 10447 AMES, F. G. Tractor mud tongs. U. S. Forest Serv. Fire Control Notes 9(4): 16-17. Oct. 1948. 1 F766Fi
- To help mired fire plow tractors.
- 10448 AUFDERHEIDE, R., and MORRIS, W. G. Broadcast slash burning after a rain. West Coast Lumberman 75(9): 79-80, 82-83. Sept. 1948. 99.81 W52
- 10449 BASER, N. Fire control-citizen style. Amer. Forests 54: 550-551, 576. Dec. 1948. 99.8 F762
- 10450 BURKE, F. M. Forest protection adopts "blitz" methods. Wis. Conserv. 13(11): 18-20. Nov. 1948. 279.8 W752
- Fire control.
- 10451 BYRAM, G. M. Vegetation temperature and fire damage in the Southern pines. U. S. Forest Serv. Fire Control Notes 9(4): 34-37. Oct. 1948. 1 F766Fi
- 10452 CROWELL, J. R. A new fire danger meter card. U. S. Forest Serv. Fire Control Notes 9(4): 40. Oct. 1948. 1 F766Fi
- 10453 HENSLER, S. J., and WINCHELL, J. H. Problems of fire protection on reforested strip-mined areas in Indiana. U. S. Forest Serv. Fire Control Notes 9(4): 32-33. Oct. 1948. 1 F766Fi
- 10454 HURFORD, A. W. Management of woodlands encouraged by State's fire risk record. Conn. Woodlands 13: 36. Sept. 1948. 99.8 C76
- 10455 HYDE, S. Brush guard and tie-rod protector for the jeep. U. S. Forest Serv. Fire Control Notes 9(4): 22-24. Oct. 1948. 1 F766Fi
- For use in forest fire control.
- 10456 IRWIN, R. F. Huski gardener fire plow. U. S. Forest Serv. Fire Control Notes 9(4): 28-31. Oct. 1948. 1 F766Fi
- 10457 JACKSON, F. L. Smoke jumping in the Southwest. U. S. Forest Serv. Fire Control Notes 9(4): 38-39. Oct. 1948. 1 F766Fi
- 10458 KO, P. F. Forest fire: its causes and prevention. (In Chinese.) Monthly Farmers' Bank China 9(5): 26-33. May 1948. 281.9 F225M
- English summary.



- 10459 LINDENMUTH, A. W., JR., and KEETCH, J. J. Fuel moisture sticks are accurate. U. S. Forest Serv. Fire Control Notes 9(4): 18-21. Oct. 1948. 1 F766Fi  
A system of fire danger measurement.
- 10460 LINDENMUTH, A. W., JR., and BYRAM, G. M. Headfires are cooler near the ground than backfires. U. S. Forest Serv. Fire Control Notes 9(4): 8-9. Oct. 1948. 1 F766Fi
- 10461 MORRIS, W. G. Lightning fire discovery time on national forests in Oregon and Washington. U. S. Forest Serv. Fire Control Notes 9(4): 1-5. Oct. 1948. 1 F766Fi
- 10462 NUTTING, A. D., and MCGUIRE, J. R. Observations on fire-damaged white pine in southwestern Maine, July 1948. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 19, 9 p. Aug. 1948. 1.9622 N2St22
- 10463 NYGAARD, J. Fighting forest fires. Experiences from Sweden. (In Norwegian.) Tidsskr. for Skogbruk. 56: 166-171. July/Aug. 1948. 99.8 T432
- 10464 ROWLAND, H. B. The essentials [in fire fighting]. Forest Warden News 22(3): 1-2. July 1948. 99.8 F7643
- 10465 ROWLAND, H. B. Where is the fire warden? Forest Warden News 22(4): 1-2. Oct. 1948. 99.8 F7643  
Forest fire control.
- 10466 STOWELL, M. D. Portable tractor headlights. U. S. Forest Serv. Fire Control Notes 9(4): 42-43. Oct. 1948. 1 F766Fi  
To aid fire control efforts at night.
- 10467 TRYGG, J. W. Aerial detection on the Superior National Forest. U. S. Forest Serv. Fire Control Notes 9(4): 12-15. Oct. 1948. 1 F766Fi  
Forest fire detection.
- 10468 VILLENEUVE, G. O. L'inflammabilité des forêts dans la région du Sud aux Etats-Unis. Forêt Québécoise 13: 615-618. Oct. 1948. 99.8 F79

#### Meteorological Injuries

- 10469 GEIGER, R. Die meteorologischen Bedingungen des harten winters 1939/40. Forstwiss. Centbl. 67: 3-10. Oct. 1948. 99.8 F775
- 10470 MUNCH, E. Forstliche frostschäden im winter 1939/40. Forstwiss. Centbl. 67: 10-17. Oct. 1948. 99.8 F775
- 10471 RUDOLF, P. O. Winter damage to Scotch Pine in northern Minnesota. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 305, 1 p. Oct. 1948. 1.9 F7625T

#### SILVICULTURE

- 10472 AMINOFF, F. Krogerup in Denmark; an establishment for silviculture. (In Swedish.) Skogen 35: 233. Oct. 15, 1948. 99 Sk51
- 10473 ANDERSSON, S. O., and ENANDER, J. Über die produktion von blattabfall und dessen zusammensetzung in einem mittelschwedischen espenbestand. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 265-270. 1948. 99.8 Sk5  
German summary.
- 10474 ARNOLD, D. L. Growing space ratio as related to the form and development of western white pine. Idaho Forester 30: 12-13. 1948. 99.9 Id1
- 10475 BAAK, B. Das ernten des Douglas-samens. Forstw., Holzw. 2: 254-255. Aug. 15, 1948. 99.8 F7793
- 10476 BØRSET, O. Choice of plant distance. (In Norwegian.) Tidsskr. for Skogbruk. 55: 315-332. Dec. 1947. 99.8 T432  
Forest trees.
- 10477 BRAMBLE, W. C. Effect of season of shearing upon the quality of Norway spruce Christmas trees. J. Forestry 46: 820-822. Nov. 1948. 99.8 F768
- 10478 BRENER, W. H. Here's what happens to cones after they arrive at State nurseries and ranger stations. Tree Tips 1948: 2. Aug. 1948. 99.8 T715
- 10479 BRENER, W. H. Seed extracting operations. Lake States Timber Digest 2(26): 4. Oct. 7, 1948. 99.8 L14
- 10480 BROKSTAD, T. The road downhill to cutting class V is short. (In Norwegian.) Skogbrukeren 23: 220-222. Oct. 1, 1948. 99.8 Sk54  
Advantages of silvicultural practices.
- 10481 BURGERS, T. F. Algunas experiencias sobre la conservación de los bosques en clima seco. Montes 4: 313-316. July/Aug. 1948. 99.8 M763
- 10482 BURGERS, T. F. Asociaciones de plantas y elección de especies forestales en los terrenos diluviales y aluviales del sur de la provincia de Huelva. Montes 4: 393-403. Sept./Oct. 1948. 99.8 M763  
Spain.
- 10483 CHERNIKOV, F. S. Forest strips on light Chestnut soils. (In Russian.) Vsesoiuzn. Nauch. Issled. Inst. Agrolesomeliior. Itogi Rabot 1944/45: 98-120. 1947. 106 M859  
Experiments with trees and shrubs on the Avangard Collective Farm in Rostov Region.
- 10484 CLASON, M. S. Increase of plant acreage. (In Norwegian.) Tidsskr. for Skogbruk. 56: 29. Jan./Feb. 1948. 99.8 T432  
Silviculture.
- 10485 COOKE, G. B. Cork growing in the South shows progress. Crown 37(11): 16-17, 22. Nov. 1948. 389.8 C88
- 10486 COON, P. E. Reforestation in southern Ontario. O. A. C. Rev. 61(1): 23-24. Oct. 1948. 276.8 On8
- 10487 COX, H. A. Systems of management; shelter-wood systems. Wood [London] 13: 296-297. Oct. 1948. 99.82 W855
- 10488 DENT, T. V., and DABRAL, S. N. Controlled burning in a chir plantation. Indian Forest B. New Ser., Silv. 131, 35 p. Ref. 1947. 99.9 In22B
- 10489 DYRING, T. Hardwood culture and care. Impressions from a study trip in Denmark. (In Norwegian.) Tidsskr. for Skogbruk. 55: 281-289, 343-362. Oct.-Dec. 1947. 99.8 T432
- 10490 FAFARD, A. Serpage de l'érablière. Abeille et l'Érable 17: 82-83. Aug./Sept. 1948. 424.8 Ab32  
Also in Forêt Québécoise 13: 603-606. Oct. 1948. 99.8 F79
- 10491 FERNÁNDEZ R., J. Apuntes sobre repoblación en Durango. Mensajero Forest. 6(58): 13-14. Aug. 1948. 99.8 M522  
Reforestation.
- 10492 FISCHER, F. Die entwicklung des schweizerischen waldbaues. Schweiz. Z. f. Forstw. 99: 469-477. Ref. Sept./Oct. 1948. 99.8 J82
- 10493 GAEL', A. G. Concerning the important problem of the afforestation of sands in the steppe zone and about some erroneous propositions. (In Russian.) Vsesoiuzn. Geog. Obshch. Izv. 80: 280-286. May/June 1948. 511 L546
- 10494 GALVIN, J. The Irish nursery trade. Irish Forestry 4: 32-34. Oct. 1947. 99.8 Ir4
- 10495 GILL, B. Australian schoolchildren run pine plantations. Timber Canada 9(2): 34-35. Oct. 1948. 99.81 T487
- 10496 GILSON, H. Comment il faut reboiser. Rustica 20: 25. (To be cont.) Jan. 12, 1947. 14 R92
- 10497 GOMEZ, A. Reforestación y recuperación de suelos de la Isla de Margarita. Agr. Venezol. 13(131): 29-30. July/Sept. 1948. 9.95 Ag8
- 10498 GRUSCHOW, G. F. A test of methods of planting eastern redcedar [Juniperus virginiana] in the Virginia piedmont. J. Forestry 46: 842-843. Nov. 1948. 99.8 F768
- 10499 GUIDOTTI, L. Life, death, and the miracles of the tree. (In Italian.) Mezzogiorno Agr. 4(44): 3. Nov. 15, 1948. 16 M57
- 10500 GUNSTON, J. Afforestation of sand dunes and prevention of coastal erosion. Trees [Dorchester] 12: 71-76. Autumn 1948. 99.8 T714
- 10501 HAHR, G. Seeding or planting of pine forest. (In Swedish.) Skogen 35: 232-233. Oct. 15, 1948. 99 Sk51
- 10502 HASLUND, O. Spruce production and quality. (In Norwegian.) Tidsskr. for Skogbruk. 55: 333-335. Dec. 1947. 99.8 T432
- 10503 HEIKINHEIMO, O. Seed setting and seed year. (In Swedish.) Norrlands Skogsvårdsförbund. Tidskr. 1948(1): 77-96. 99.9 N77  
Chiefly pine and spruce.
- 10504 HENSLER, E. Aufforstung und privatwald. Landpost 4(2): 1-2. Jan. 25, 1948. 18 L2329  
Germany.
- 10505 HESMER, H. Kiefern-kulturverfahren und bestandesziel. Forst u. Holz 3: 174-177. Ref. Sept. 15, 1948. 99.8 F7724
- 10506 HILL, W. W., ARNST, A., and BOND, R. M. Method of correlating soils with Douglas-fir site quality. J. Forestry 46: 835-841. Nov. 1948. 99.8 F768
- 10507 JENSEN, C. F. Langdal plantation; a magnificent experiment with foreign trees. (In Danish.) Hedeselsk. Tidsskr. 69: 223-226. (To be cont.) Oct. 15, 1948. 11 H35



- 10508 JENSEN, F. E. Culture and/or natural rejuvenation in our spruce forests. (In Norwegian.) Skogbrukeren 23: 253-254. Nov. 15, 1948. 99.8 Sk54
- 10509 KHANBEKOV, I. I., and SHCHEPETEV, A. G. Experiments in dense afforestation of Russian steppes. (In Russian.) Vsesoiuzn. Nauch. Issled. Inst. Agrolesomeliator. Itogi Rabot 1944/45: 5-17. 1947. 106 M859
- 10510 KLEM, G. G. Our culture plans and time. (In Norwegian.) Tidsskr. for Skogbruk. 55: 298-300. Oct./Nov. 1947. 99.8 T432  
Chiefly on forest trees planting distances.
- 10511 KLEM, G. G. Plant distance - production and quality. (In Norwegian.) Tidsskr. for Skogbruk. 55: 237-241. Aug./Sept. 1947. 99.8 T432  
Spruce.
- 10512 LINDQUIST, B. Views on some forest tree breeding problems. (In Swedish.) Norrlands Skogsvårdsförbund. Tidskr. 1948(1): 140-148. 99.9 N77
- 10513 LISIN, S. S. Influence of preceding plants on the growth and development of seedlings in the land improvement forest nurseries. (In Russian.) Vsesoiuzn. Nauch. Issled. Inst. Agrolesomeliator. Itogi Rabot 1944/45: 188-212. 1947. 106 M859
- 10514 LITTLE, S., ALLEN, J. P., and MOORE, E. B. Controlled burning as a dual-purpose tool of forest management in New Jersey's pine region. J. Forestry 46: 810-819. Ref. Nov. 1948. 99.8 F768
- 10515 LOPEZ, E. D., and CUSSAC, C. M. Cartilla forestal. I. Viveros. Uruguay. Dir. de Agron. P. 65, 86 p. 1948. 9.9 Ur84
- 10516 LOTHIGIUS, W. Spot seeding. (In Swedish.) Skogen 35: 221-223. Oct. 1, 1948. 99 Sk51
- 10517 LUPE, I. Some problems regarding the forest-seeds. (In Romanian.) Rev. Pădurilor 63: 90-92. May/June 1948. 99.8 R327  
French summary.
- 10518 LUSTIG, E. Aus der praxis der forstlichen zwischenkulturwirtschaft. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 137-139. Sept. 1948. 99.8 AL53
- 10519 MCCARTHY, T. Flood damage at Ballyhoura Nursery. Irish Forestry 4: 30-31. Oct. 1947. 99.8 Ir4
- 10520 MCKUSICK, H. A. Red pine growth study plots. Conn. Woodlands 13: 39-40. Sept. 1948. 99.8 C76
- 10521 MCLINTOCK, T. F. Evaluation of tree risk in the spruce-fir region of the Northeast. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 16, 7 p. Aug. 1948. 1.9622 N2St22
- 10522 MAGDAS, V. Important moments in the natural regeneration of the fir-tree. (In Romanian.) Rev. Pădurilor 63: 92-95. May/June 1948. 99.8 R327  
French summary.
- 10523 MARRERO, J. Forest planting in the Caribbean National Forest; past experience as a guide for the future. Caribbean Forester 9: 85-213. Ref. Apr. 1948. 1.9622 T2C23  
Spanish version, p. 148-212.
- 10524 MARTINSON, E. Une forêt des cantons de l'est-résultats d'opérations culturales. Forêt Québécoise 13: 683-689. Nov. 1948. 99.8 F79
- 10525 MATHIO, M. La préparation de la graine avant le semis. Bois et Résineux 30(1477): 1. Oct. 30, 1948. 99.82 B63
- 10526 MEYERINK, W. E. Reforestation of Zeeland in general and of Walcheren especially. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 59: 364-373. Sept. 1948. 12 N282
- 10527 MOLLER, C. M. Do silviculture costs increase enormously? (In Danish.) Dansk Skovfor. Tidsskr. 33: 33-47. Feb. 1948. 99.8 D23
- 10528 NATIVIDADE, J. V. Scientific principles of cork culture. IV. (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 10: 331-335. May 1948. 309.9 J96  
English summary, p. L.
- 10529 NEWMAN, T. Reafforestation at Coryton, Devon. Trees [Dorchester] 12: 68-71. Autumn 1948. 99.8 T714
- 10530 OLLENDORFF, A. Observations on spruce in North-Troms. (In Norwegian.) Tidsskr. for Skogbruk. 55: 273-276. Oct./Nov. 1947. 99.8 T432
- 10531 OPSAHL, W. Organization of forest seed supply. II. (In Norwegian.) Tidsskr. for Skogbruk. 56: 152-160. July/Aug. 1948. 99.8 T432
- 10532 OPSAHL, W. Seed setting of forest trees. (In Norwegian.) Tidsskr. for Skogbruk. 55: 364-372. Dec. 1947. 99.8 T432

- 10533 PAVARI, A. More on mycorhyza. (In Italian.) Italia Agr. 85: 503-505. Sept. 1948. 16 It1  
In silviculture.
- 10534 PEEVY, F. A. Control of low value upland hardwoods in the South. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 35. 1948. 4 C82
- 10535 POURTET, J., and TANTON, B. Les caractéristiques climatiques de l'année 1947 et le reboisement. Soc. Forest. de Franche Comté et Provs. de l'Est. B. Trimest. 25: 284-288. Sept. 1948. 99.9 So14
- 10536 PUTOD, R. Les reboisements en pays méditerranéens par repiquages de jeunes semis. Rev. des Eaux et Forêts 87: 402-424. (Concl.) Ref. Oct./Nov. 1948. 99.8 R322
- 10537 RENNERFELT, E. Experiments with chemicals in preventing stump sprout in birch in cutting area. (In Swedish.) Norrlands Skogsvårdsförbund. Tidskr. 1948(1): 119-139. 99.9 N77
- 10538 RUNQUIST, E. Forest tree breeding. (In Swedish.) Lantbrukstidskr. för Dalarna 1948(1): 8-15. Feb. 1948. 11 L29
- 10539 SALAS CALAZA, J. M. Técnicos especializados deben tener a su cargo la tarea de convertir la República en un inmenso parque. Pampa Argentina 22(254): 1. Oct. 1948. 9 P19
- 10540 SANZ-PASTOR F. DE PIEROLA, J. M. Viveiros de resinosas en Granada. Montes 4: 405-410. Sept./Oct. 1948. 99.8 M763  
Spain.
- 10541 SARVAS, R. Breeding of forest trees. (In Finnish.) Suomen Paperi- ja Puutavaralehti 30: 287-291. Sept. 15, 1948. 302.8 P1991  
English summary.
- 10542 SCHMITZ-LENDERS, B. Weite oder enge verbände beim bestandsweisen pappel-anbau? Forst u. Holz 3: 169-170. Sept. 15, 1948. 99.8 F7724
- 10543 SCHÖNBACH, H. Anbauversuche mit sand- und moorbirke im Tharander Wald. Forstw., Holzw. 2: 261-265. Sept. 1, 1948. 99.8 F7793
- 10544 STEEN, J. VAN. La culture des plants forestiers en Flandre occidentale. Courrier Hort. 10: 602-604. Oct. 1948. 80 C834
- 10545 STENERSEN, T. Area rejuvenation. (In Norwegian.) Skogbrukeren 23: 201-202. Sept. 15, 1948. 99.8 Sk54
- 10546 SUPREME COMMANDER FOR THE ALLIED POWERS. NATURAL RESOURCES SECT. Reforestation in Japan. Supreme Commander Allied Powers. Nat. Resources Sect. Rpt. 113, 53 p. Tokyo, 1948. 280.9 AL5
- 10547 TOMA, G. T. The influence of the thinnings on the forests' growth and yield. (In Romanian.) Rev. Pădurilor 63: 88-90. May/June 1948. 99.8 R327  
German summary.
- 10548 TUNMANN-MOE, P. Natural rejuvenation on peat soil illustrated from Finnish experiments. (In Norwegian.) Tidsskr. for Skogbruk. 56: 32-35. Jan./Feb. 1948. 99.8 T432
- 10549 WAHLENBERG, W. G. Effect of forest shade and openings on loblolly pine seedlings. J. Forestry 46: 832-834. Nov. 1948. 99.8 F768
- 10550 WARRACK, G. Thinning and pruning of second-growth Douglas fir in the Coastal Region of British Columbia. Brit. Columbia. Forest Serv. Res. Notes 13, 8 p. 1948. 99.9 B771
- 10551 WILDE, S. A., NALBANDOV, O. G., and YU, T. M. Ash, protein, and organo-solubles of jack pine seedlings in relation to soil fertility. J. Forestry 46: 829-831. Nov. 1948. 99.8 F768
- 10552 WURST, G. J. The care of trees on the farm. So. Austral. Dept. Agr. J. 52: 36. Aug. 1948. 23 So84
- 10553 ZAPRIAGAIEVA, V. I. On the sparseness of tree and shrub plantations on the southern slope of the Gissar Mountain Range. (In Russian.) Priroda 37(8): 63-66. Ref. Aug. 1948. 410 P933  
Due to lack of moisture in the soil.

## LUMBERING

## Equipment

- 10554 BAAK. Das arbeiten mit sägeneinspannvorrichtungen. Forstw., Holzw. 2: 255-256. Aug. 15, 1948. 99.8 F7793
- 10555 CALLIN, G. Tractors in the service of forestry. (In Swedish.) Försök och Forskning 5: 20. Mar. 1948. 11 F77



10556 CARPELAN, G. On motor saws and the possibility of their bringing exchange to the country. (In Swedish.) Skogen 35: 219-220. Oct. 1, 1948. 99 Sk51  
10557 DEVINE, J. Pro and con of fork lifts for lumber handling. Natl. Hardwood Mag. 22(10): 30-31. Nov. 1948. 442.8 L77

10558 EMMERICH, H. Der genormte rollwagen. Holz-Zentbl. 74: 411. (Cont.) Oct. 5, 1948. 99.81 H742

10559 FOBES, E. W. Slab pick-up racks. U. S. Forest Serv. Forest Prod. Lab. Impr. Harvesting Methods. Equip. Survey Notes. Mimeog. R1637-2, 2 p. Aug. 1948. 1.9 F761R

10560 HYLER, J. E. Ripsaws and their work. 8-11. Natl. Hardwood Mag. 22(9): 34-38; (10): 26, 28-29, 43-44; (11): 101-108. Oct.-Dec. 1948. 99.81 N212

10561 KOCH, P. Plane talk for better lumber. Wood [Chicago] 3(10): 26, 28, 30. (To be cont.) Oct. 1948. 99.82 W859

10562 KOROLEFF, A. Wood is easily moved off steep slopes by wire. Woodland World 1(4): 4. Oct. 1948. 99.8 W853

10563 LEHRBAS, M. M. Fence post barking machines in the South. La. Forest. Comn. B. 3, 23 p. Aug. 1947. 99.9 L933

10564 MACLAURIN, D. J., and VAN ALLEN, A. M. Performance of a whole log chipper and associated equipment. Paper Trade J. 127(22): 23-30. Nov. 25, 1948. 302.8 P196

10565 SAUDER, O. Easier logging for Illinois foresters. Ill. Agr. 53(3): 10-11. Dec. 1948. 6 IL6  
New equipment.

10566 SJÖSTEDT, S. Mechanization of forestry in U. S. A. and Canada. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 41-50. 1948. 99.8 Sk5

10567 THOMSON, R. Care and maintenance of power chain saws. Canada Lumberman 68(23): 76-77. Dec. 1, 1948. 99.81 C16

#### Logging

10568 FLATSCHER, H. Lagebericht. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 148-149. Sept. 1948. 99.8 AL53

Transportation of logs.

10569 FOBES, E. W. Combined bunching and skidding. South. Lumberman 17(2223): 78. Nov. 15, 1948. 99.81 So82

10570 HOLMGREN, A. Log floating Dalälven-ocean. (In Swedish.) Norrlands Skogsvårdsförbund. Tidskr. 1948(1): 1-76. 99.9 N77

10571 HORATHIS, M. DE. Notes and reflections on cable transportation. (In Italian.) Ital. Forest. e Mont. 3: 195-211. July/Aug. 1948. 99.8 It12

10572 JOHNSON, W. H. G. Felling trees properly. Forest & Outdoors 44(12): 34. Dec. 1948. 99.8 C16

10573 JOHNSTON, W. B. Logging methods employed 35 or more years ago--early railroad logging. Timber Prod. Assoc. B. 68: 15-16. Nov. 1948. 99.9 T482B

10574 JONSON, G. On logging and transportation technique in Switzerland. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 271-278. 1948. 99.8 Sk5

10575 KOROLEFF, A. Planning for better logging. Timber Canada 9(3): 33-35. Nov. 1948. 99.81 T487

10576 MCCracken, A. E. Past and present practices in N. Z. logging and milling. Austral. Timber J. 14: 445, 447, 449, 479. Aug. 1948. 99.81 Au7

10577 MEUNIER, M. Le chantier coopératif. IV. Forêt Québécoise 13: 621-623. Oct. 1948. 99.8 F79

10578 MICHAELSSON, G. Logging in Argentina. (In Swedish.) Skogsägaren 24: 187-189. Sept. 1948. 99.9 Sk55

10579 MOLDOVAN, I. The clearing of the felling area. (In Romanian.) Rev. Pădurilor 63: 95-96. May/June 1948. 99.8 R327  
French summary.

10580 SCHANTZ-HANSEN, T. Logging methods and peeling of aspen. U. S. Forest Serv. Lake States Forest Expt. Sta. Lake States Aspen Rpt. 3, 14 p. Ref. July 1948. 1.9622 L2L14

Also in Lake States Timber Digest 3(5): 5-6, 10. Dec. 16, 1948. 99.81 L14

10581 SCHRADER, O. H., JR. It shouldn't happen to a log. Wood [Chicago] 3(9): 16-17, 45-46; (10): 17-19, 42, 44. Sept.-Oct. 1948. 99.82 W859

10582 SIMMONS, F. C. Good logging practice.

11-12. Timber Canada 9(2): 38-41, 92, 94; (3): 39-43. Oct.-Nov. 1948. 99.81 T487

11. Skidding with tractors. 12. Selection and use of wire rope and accessories.

10583 THRUENSEN, R. Men at work: boss logger. n. p., 1948. 22 p. 99.76 T41

10584 ULINDER, J. Safety in falling and bucking. Brit. Columbia Lumberman 32(10): 61, 86. Oct. 1948. 99.81 B77

10585 ZASADA, Z. A., and ZEHNGRAFF, P. J. Logging costs of aspen. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 304, 1 p. Oct. 1948. 1.9 F7625T

#### Lumber Industry

10586 CHIANG, L. Y. Making and utilization of boards and planks. (In Chinese.) Monthly Farmers' Bank China 9(5): 51-54. May 1948. 281.9 F225M  
English summary.

10587 CH'U, H. M. Production and marketing of timber in Hunan. (In Chinese.) Monthly Farmers' Bank China 9(5): 55-58. May 1948. 281.9 F225M

10588 COOLEY, O. Cooperating across the border. News Farmer Coop. 15(8): 11, 17. Nov. 1948. 166.2 N47

Canadian lumber marketed cooperatively in the United States.

10589 ENTRICAN, A. R. World timber situation. Austral. Timber J. 14: 435-436, 439, 480. Aug. 1948. 99.81 Au7

10590 FUNK. Unternehmer hilft mit, unfälle verhüten! Holz-Zentbl. 74: 429. Oct. 12, 1948. 99.81 H742

10591 HEAD, A. E. The grading of timber. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 165: 1-2. July 1948. 99.9 Au722F

10592 HEINÄNEN, P. Levelling of lumber prices in Finland. (In Swedish.) Svensk Trävaru-Tidn. Svensk Fappersmassetidn. 1947: 1271-1272, 1275. 99.81 Sv22

10593 HORN, A. Distribution of sawmills and lumber production in northern Minnesota. Lake States Timber Digest 2(26): 6. Oct. 7, 1948. 99.81 L14

10594 HYLER, J. E. Piling strips for lumber. South. Lumberman 17(2223): 64. Nov. 15, 1948. 99.81 So82

10595 HYLER, J. E. Wide wood members. South. Lumberman 17(2223): 54, 56. Nov. 15, 1948. 99.81 So82

10596 KAISER, E. F. Hochfrequenzenergie im Dienste der Holzindustrie. Holz-Zentbl. 74: 315, 317. Aug. 24, 1948. 99.81 H742

10597 KOLLMANN, F. Der energieverbrauch bei der holzbearbeitung und Holzverarbeitung. Holz-Zentbl. 74: 417-418; 427-429. Oct. 8-12, 1948. 99.81 H742

10598 LATHAM, B. The 17th-century timber merchant. Wood [London] 13: 314-316. Nov. 1948. 99.82 W855

10599 LEONARD, R. O. Western pine production for 1948 will smash previous records. Calif. Lumber Merchant 27(11): 34, 106-107. Dec. 1, 1948. 99.81 C12

10600 MASON, N. P. Challenge to lumber industry. Miss. Val. Lumberman 79(48): 7, 30. Nov. 26, 1948. 99.81 M69

10601 NEETZEL, J. R. Distribution of sawmills and lumber production in southern Minnesota. Lake States Timber Digest 2(26): 6. Oct. 7, 1948. 99.81 L14

10602 NEUHAUS, E. Holz und freie wirtschaft. Forst u. Holz 3: 159-161. Sept. 1, 1948. 99.8 F7724

10603 ORTH, E. Kritische betrachtungen zur verwendung hochfrequenter wechselströme in der Holzindustrie. Holz-Zentbl. 74: 368-369. Sept. 17, 1948. 99.81 H742

10604 RAZOUS, P. Le commerce des bois en France et dans les pays de l'Union Française: Afrique Française du Nord. Bois et Scieries 54: 701-704; 725-727, 757-759. Sept. 23-Oct. 15, 1948. 99.81 B632

10605 RECKNAGEL, A. B. Coordination of utilization in woods & mill. Brit. Columbia Lumberman 32(11): 64-65. Nov. 1948. 99.81 B77

10606 ROTTIN, B. Aujourd'hui comme hier le transport des bois pose un vaste problème aux solutions toujours nouvelles. Bois et Scieries 54: 749-751. Oct. 7/14, 1948. 99.81 B632

10607 SCHENCK, C. A., and BLOEDEL, J. H. Is there enough lumber to meet Marshall Plan requirements? West Coast Lumberman 75(9): 59. Sept. 1948. 99.81 W52

10608 SEREVO, T. S. Some problems of small timber licensees or producers. Philippine Isl. U. Forestry Leaves 2(5): 19, 36. July 1948. 99.8 P532



- 10609 SHARP, S. J. Redwood—still shaking down. Calif. Lumber Merchant 27(11): 62. Dec. 1, 1948. 99.81 C12
- 10610 SHAW, J. Four-siding narrow widths. Wood Working Digest 50(11): 76. Nov. 1948. 99.82 W87
- 10611 SILVESTER, F. D. What we have learned from stress-grading. T. D. A. Q. Rev. 2(5): 10-12. Oct. 1948. 99.9 T48T
- 10612 SIMPSON, H. V. Economy lumber. Calif. Lumber Merchant 27(11): 30, 32. Dec. 1, 1948. 99.81 C12
- 10613 STEWART, J. E. How to reduce lumber handling costs. Wood Construct. 34(9): 17-18. Sept. 1948. 99.81 W852
- 10614 TAMESES, F. Proper lumber merchandising: a necessity. Philippine Isl. U. Forestry Leaves 2(5): 5-6, 20-22. July 1948. 99.8 P532
- 10615 TSENG, T. H. Survey of lumbering industry in Kiangsi. I. (In Chinese.) Monthly Farmers' Bank China 9(i): 28-34. Jan. 1948. 281.9 F225M
- 10616 WEATHERBY, H. Alberta's lumber industry comes of age. Brit. Columbia Lumberman 32(11): 60, 66. Nov. 1948. 99.81 B77
- 10617 WEST COAST LUMBERMEN'S ASSOCIATION. Use the right grades of lumber in your home. Portland, Oreg., 1948. 4 p. 99.76 W522U
- 10618 ZASADA, Z. A. Aspen lumber grades and characteristics. U. S. Forest Serv. Lake States Forest Expt. Sta. Lake States Aspen Rpt. 6, 9 p. Sept. 1948. 1.9622 L2L14

#### Sawmills

- 10619 COLLINDER, S. Investigation of the saw mill production by the Firewood Commission. (In Swedish.) Svensk Trävaru-Tidn. Svensk Pappersmassetidn. 1948: 13-14, 17-18, 21. 99.81 Sv22
- 10620 KRIEGER, H. Unruhiger lauf des vollgatters. Holz-Zentbl. 74: 371, 373. Sept. 17, 1948. 99.81 H742
- 10621 NELSON, L. A. Sawing logs into lumber. V. Timberman 50(2): 78, 80, 139. Dec. 1948. 99.81 T484
- 10622 TELFORD, C. J., and REINEKE, L. H. Head saw energy requirements. Wood [Chicago] 3(9): 24, 38-42. Sept. 1948. 99.82 W859
- 10623 TOMMILA, O. Current problems of the Finnish saw mill and veneer industry. (In Swedish.) Svensk Trävaru-Tidn. Svensk Pappersmassetidn. 1948: 709-710. 99.81 Sv22
- 10624 WILSON, R. Sawmilling. Austral. Bur. Census and Statis. Mfg. Indus., 1945/46, 28, 10 p. Canberra, 1947. 271 Au72Ma

#### WOOD TECHNOLOGY

- 10625 BRISSAUD, L. Analyse des bois et des pâtes de cellulose. Chim. Anal. 30: 223-231. (Concl.) Ref. Oct. 1948. 383 An72
- 10626 GLASER, H. Unterdruckschutzbehandlung von holz. Holz-Zentbl. 74: 368. Sept. 17, 1948. 99.81 H742
- 10627 KOLLMANN, F. Holzwerkstoffe und holzschutz. Holz-Zentbl. 74: 487, 489, 491, 493. Nov. 2, 1948. 99.81 H742
- 10628 LAHEY, F. N., and MEREWETHER, J. W. T. Studies on the lignin of Eucalyptus regnans. I. Austral. J. Sci. Res. Ser. A, Phys. Sci. 1: 112-119. Ref. Mar. 1948. 475 Au73
- 10629 RIETZ, R. C. Moisture meters reliable in inspection studies. Wood [Chicago] 3(9): 26, 42, 44. Sept. 1948. 99.82 W859
- 10630 RISI, J. Neuere fortschritte auf dem gebiet der holzveredelung und holzabfallverwertung in Nordamerika. Schweiz. Z. f. Forstw. 99: 491-510. Ref. Sept./Oct. 1948. 99.8 J82
- French summary.
- 10631 SANDS, W. M. Don't hog your profits. Wood [Chicago] 3(10): 25, 46, 48. Oct. 1948. 99.82 W859
- Wood waste utilization.
- 10632 SCHWARTZ, J. R. Bois améliorés. Rev. du Bois 3(9/10): 14-19. Ref. Sept./Oct. 1948. 99.82 R32
- 10633 SIMONEN, M. New American experiences in wood technology. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 279-285. 1948. 99.8 Sk5
- 10634 STOCKMAN, L., and HAGGLUND, E. On spruce wood polyoses and their behavior during hydrolysis. (In Swedish.) Svenska Träforskningsinst. Träkemi och Papperstek. Meddel. 36, 6 p. Stockholm, 1948. 99.9 St62
- German and English summaries.
- 10635 SUOLAHTI, O. Laboratory tests on the effect of submersion in water on decay of pine (*Pinus silvestris*). Suomen Paperi- ja Puutavaralehti 30: 341-342. Oct. 15, 1948. 302.8 P1991
- 10636 VAROSSIEAU, W. W. The identification of wood species with the aid of the Hollerith system. Blumea 6: 229-242. Ref. 1947/48. 450 B62
- 10637 WISE, L. E., and RATLIFF, E. K. The distribution of mannans in the wood of slash pine and black spruce. Arch. Biochem. 19: 292-299. Nov. 1948. 381 Ar2

#### Properties and Structure

- 10638 ALDER, E., BJÖRKQVIST, K. J., and HÄG-GROTH, S. Über die ursache der farbreaktionen des holzes. Acta Chem. Scand. 2(1): 93-94. 1948. 385 Ac82
- 10639 BARDUCCI, I., and PASQUALINI, G. Measurement of internal attrition and elastic constants in wood. (In Italian.) Ricerca Sci. 18: 999-1006. Aug./Sept. 1948. 475 It1
- 10640 DESCH, H. E. The ashes. Wood [London] 13: 285-287. Oct. 1948. 99.82 W855
- Fraxinus, Sorbus, Eucalyptus, Tarrietia, Flindersia, Ehretia and Ailanthus.
- 10641 GIORDANO, G. El peso específico de la madera en función de los diferentes grados de humedad. Montes 4: 285-292. July/Aug. 1948. 99.8 M763
- 10642 HEARMON, R. F. S. The elasticity of wood and plywood. Gt. Brit. Dept. Sci. and Indus. Res. Forest Prod. Res. Spec. Rpt. 7, 87 p. Ref. 1948. 99.9 G796S
- 10643 HYLER, J. E. Color in lumber. South. Lumberman 177(222): 58. Nov. 1, 1948. 99.81 So82
- 10644 JANE, F. W. The histology of wood. Timber News 56: 420, 427. Nov. 1948. 99.81 T482
- 10645 LAMB, G. N. Foreign woods: origin, use, properties and nomenclature. Wood Prod. 53(11): 26, 30. Nov. 1949. 99.82 W856
- 10646 LEONT'EV, N. L. Effect of age on the quality of pine wood. (In Russian.) Priroda 37(4): 53-55. Ref. Apr. 1948. 410 P933
- 10647 LUTZ, L. Les altérations du bois: leur mécanisme. Rev. du Bois 3(9/10): 8-11. Sept./Oct. 1948. 99.82 R32
- 10648 MOLL, F. Nochmals: natürliche dauerhaftigkeit des holzes. Holz-Zentbl. 74: 369. Sept. 17, 1948. 99.81 H742
- 10649 MÜLLER, O. Beiträge zur chemie des buchenholzes. II-III. Justus Liebig's Ann. der Chem. 558: 157-171. 1947. 384 An7
- 10650 NATIVIDADE, J. V. The occurrence of sclerotic formations (nails) in the suberous tissues of cork. (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 10(109): 5-13. Nov. 1947. 309.9 J96
- English summary, p. IV.
- 10651 NOTHHELFER, M. Natürliche dauerhaftigkeit des holzes. Holz-Zentbl. 74: 280-281. Aug. 10, 1948. 99.81 H742
- 10652 PEARSON, R. G., and SCHUSTER, K. The bending of masonite. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 165: 4. July 1948. 99.9 Au722F
- 10653 PHILLIPS, E. W. J. The biology and properties of wood. New Biol. 4: 74-98. 1948. 442.8 J63
- 10654 TIEMANN, H. D. Permeability of wood to air and liquids: soap foam tests. South. Lumberman 17(2223): 68-69. Nov. 15, 1948. 99.81 So82
- 10655 WERREN, F. Fatigue of sandwich constructions for aircraft. Fiberglas-honeycomb core material with fiberglas-laminate or aluminum facings, tested in shear. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1559-C, 4 p. Aug. 1948. 1.9 F761R
- 10656 WERREN, F. Fatigue of sandwich constructions for aircraft. Fiberglas-laminate face and end-grain balsa core sandwich material tested in shear. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1559-D, 4 p. Sept. 1948. 1.9 F761R

#### Preservative Treatment

- 10657 BOND, R. W. Wood preservatives. 3-4. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 164: 4; 165: 3-4. June-July 1948. 99.9 Au722F



- 10658 DOW CHEMICAL COMPANY. Post preservation pays. Midland, 1948. 10 p. 300 D75P
- 10659 DUNKELBERG, G. H. Non-pressure preservative treatment of fence posts. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 70-71. 1948. 4 C82
- 10660 EISENSCHIML, O., and KALBERG, V. Fungicides in protective coatings. Paint, Oil & Chem. Rev. 111(24): 17-19, 29-30. Nov. 25, 1948. 306.8 P16
- 10661 FITZGERALD, O. A. Fence post magic. West. Farm Life 50(22): 9, 28. Nov. 15, 1948. 6 R153  
Preservation with pentachlorophenol.
- 10662 HARROW, K. M. Methods of evaluating pressure systems for timber preservations with aqueous solutions absorption. New Zeal. J. Sci. & Technol. B., Gen. Res. Sect. 29: 156-163. Nov. 1947. 514 N48B
- 10663 MOORHOUSE, S. Beating the beetles. So. African Timber Trades' J. 2(10): 18-20. July 1948. 99.8 So82
- 10664 NICHOL, C. W. Celcure treatment of bed-boards. MGA Bulletin 13: 185-187. Oct. 1948. 80 M97
- 10665 RISI, J. La préservation du bois. Forêt Québécoise 13: 589-590; 654-655. (Cont.) Oct.-Nov. 1948. 99.8 F79
- 10666 SNYDER, T. E., and ZETEK, J. Effectiveness of wood preservatives in preventing attack by termites. I. So. African Timber Trades' J. 2(10): 6-7, 9, 11-14. Ref. July 1948. 99.8 So82
- 10667 WEHRMANN, F. Der sachbearbeiter in holzschutzfragen. Holz-Zentbl. 74: 281. Aug. 10, 1948. 99.81 H742
- Seasoning, Conditioning, and Finishing**
- 10668 BAKER, G. Kiln drying of turning squares and turned products. Northeast. Wood Util. Council. B. 23: 47-52. Aug. 1948. 99.9 N819
- 10669 BATTENFIELD, D. R. Dry kiln developments. South. Lumberman 177(2222): 50, 52. Nov. 1, 1948. 99.81 So82  
Also in Gulf Coast Lumberman 36(16): 40, 42. Nov. 15, 1948. 99.81 G95
- 10670 CARTER, R. M. The costs of poor kiln drying. Northeast. Wood Util. Council. B. 23: 5-12. Aug. 1948. 99.9 N819
- 10671 DEVINE, J. Kiln drying: operation of automatic kiln controls. Natl. Hardwood Mag. 22(9): 40, 46. Oct. 1948. 99.81 N212
- 10672 DUBOIS, L. DE G. Le séchage du bois. Forêt Québécoise 13: 692-695. Nov. 1948. 99.8 F79
- 10673 GIRTEN, P. E. How I would finish quilted maple. Natl. Hardwood Mag. 22(10): 38. Nov. 1948. 99.81 N212
- 10674 GRAHAM, P. H. What lacquer thinners are and do. Natl. Hardwood Mag. 22(10): 34, 36. Nov. 1948. 99.81 N212
- 10675 LOUGHBOROUGH, W. K. Chemical seasoning: its effectiveness and present status. Northeast. Wood Util. Council. B. 23: 53-75. Aug. 1948. 99.9 N819
- 10676 QUIGLEY, R. I. You can test finishes. Wood [Chicago] 3(9): 22-23, 47-48; (10): 20-21, 40-42. Sept.-Oct. 1948. 99.82 W859
- 10677 RIETZ, R. C. Fundamentals of wood seasoning. Northeast. Wood Util. Council. B. 23: 13-24. Aug. 1948. 99.9 N819
- 10678 SMITH, W. T. Color in the wood finish. Wood Prod. 53(11): 33-35. Nov. 1948. 99.82 W856
- 10679 STEVENS, W. C. Seasoning timber for high-class joinery in public buildings. Timber News 56: 413, 416. Nov. 1948. 99.81 T482
- 10680 TORGESON, O. W. Furnace-type lumber dry kilns. Northeast. Wood Util. Council. B. 23: 31-46. Aug. 1948. 99.9 N819
- 10681 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on wood finishing subjects. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R454, 15 p. Sept. 1948. 1.9 F761R
- 10682 UTERHARCK, F. Verhalten der verschiedenen holzarten bei der künstlichen trocknung. Holz-Zentbl. 74: 469-470. Oct. 26, 1948. 99.81 H742
- 10683 WAMPLER, R. H. Preparing wood for finishing. Wood [Chicago] 3(9): 29, 36, 38. Sept. 1948. 99.82 W859
- 10684 WELCH, J. B. Modern kiln design and equipment. Northeast. Wood Util. Council. B. 23: 25-29. Aug. 1948. 99.9 N819  
Also in Wood Working Digest 50(10): 241-242, 244, 246, 248. Oct. 1948. 99.82 W87
- FOREST PRODUCTS**
- 10685 AMERICAN STANDARDS ASSOCIATION. American standard specifications and dimensions for wood poles. New York, 1948. 14 p. 334 Am34
- 10686 BANK OF NOVA SCOTIA. Markets for forest products. Bank Nova Scotia. Monthly Rev. (n. s.) 28, 4 p. Sept. 1948. 280.9 B223
- 10687 BJÖÖRN, E. Some nomenclature problems. (In Swedish.) Svensk Trävaru-Tidn. Svensk Pappers-massetidn. 1947: 805-806. 99.81 Sv22  
Forest products.
- 10688 BRAMBLE, W. C., and CHISMAN, H. H. Christmas trees keep well when stored in proper way. Sci. Farmer [Pa. Sta.] 1948: 3, 10. Oct. 1948. 100 P383
- 10689 CADE, J. R. Loading and unloading ties mechanically. Cross Tie B. 29(11): 15-20. Nov. 1948. 99.82 C87
- 10690 CANADA. BUR. OF STATISTICS. CENSUS OF INDUSTRY. FOREST PRODUCTS STATISTICS. Wood-using industries in Canada, 1946. Ottawa, 1948. 26 p. 253 C332I
- 10691 CRAIG, J. B. Christmas harvest. Amer. Forests 54: 552-553, 566. Dec. 1948. 99.8 F762
- 10692 DAVIS, D. G. Christmas tree crop in jack pine. Mo. Ruralist 89(20): 12-13. Oct. 23, 1948. 6 R8891
- 10693 FOGELHOLM, K. G. International forest industries. (In Swedish.) Suomen Paperi- ja Puutavara-lehti 30: 355-357. Oct. 31, 1948. 302.8 P1991
- 10694 GEVORKIANTZ, S. R. More [railroad] ties on better sites. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 302, 1 p. Oct. 1948. 1.9 F7625T
- 10695 GHELMEZIU, N. The valuation of the refuse-wood and the under products in the forest exploitation and industry. (In Romanian.) Rev. Pădurilor 63: 97-102. (To be cont.) May/June 1948. 99.8 R327  
French summary.
- 10696 GRAHAM, P. H. How portable tools put the "prod" into production. Natl. Hardwood Mag. 22(10): 23-25, 40, 42-43. Nov. 1948. 99.81 N212
- 10697 HARRINGTON, L. December harvest; Canada grows its own holly and Christmas trees, but they need careful handling for the market. Farmer's Mag. 45(12): 9, 51, 52. Dec. 1948. 7 C165
- 10698 MCELHANNEY, T. A. Widening uses for wood waste. n. p., 1948? 6 p. 301 M15
- 10699 MANG, J. Grundsätzliches zur grubenholzvermessung. Forstw., Holzw. 2: 265-267. Sept. 1, 1948. 99.8 F7793
- 10700 NORDFELDT, S. Manufacture of molasses from wood waste. (In Swedish.) Lantmannen 32: 497. July 24, 1948. 11 L234  
Molasses.
- 10701 NORMAND, J. Le travail commercial du bois dans le village rural de l'ouest de la France. Bois et Scieries 54: 752-753, 755. Oct. 7/14, 1948. 99.81 B632
- 10702 PERRY, T. D. Research in woodworking. Wood Working Digest 50(11): 51-54, 56, 58. Nov. 1948. 99.82 W87
- 10703 PERSHALL, E. E. Cross tie production in France. Cross Tie B. 29(11): 8-14. Nov. 1948. 99.82 C87
- 10704 ROTTIN, B. La réorganisation de la répartition des produits industriels. Bois et Scieries 54: 700-701. Sept. 23, 1948. 99.81 B632
- 10705 RUSSELL, M. It's a good time of year for Christmas tree farming. Colo. Rancher & Farmer 2(23): 1, 18. Dec. 11, 1948. 6 C714
- 10706 SAMARAS, N. T. (Excerpts) Sawdust and wood chips reclaimed. Wood Working Digest 50(11): 78, 80. Nov. 1948. 99.82 W87
- 10707 SANDS, W. M. Increased utilization of cut stock. Wood Prod. 53(11): 17-18. Nov. 1948. 99.82 W856  
Also in Wood Working Digest 50(11): 61-62, 64. Nov. 1948. 99.82 W87; Canada Lumberman 68 (23): 58, 85-86. Dec. 1, 1948. 99.81 C16



10708 SANDS, W. M. Interplant exchange of factory waste. *Wood Working Digest* 50(10): 233-234, 236. Oct. 1948. 99.82 W87

10709 SEGRING, S. B. Wallboard—its manufacture, properties and uses. *Svensk Trävaru-Tidn. Svensk Pappersmassetidn. Årsnummer* 1947: 174-176, 178-184. 99.81 Sv2

10710 SMITH, R. R. Moulding sawdust. *South. Lumberman* 177(2224): 40, 42, 44, 46. Dec. 1, 1948. 99.8 So82

10711 SÖDERHJELM, J. O. Woodworking perspectives. (Sum.) *Suomen Paperi- ja Puutavaralehti* 30: 362. Oct. 31, 1948. 302.8 P1991

10712 VAN BECKUM, W. C. The development of bark products by Weyerhaeuser. (Sum.) *West Coast Lumberman* 75(11): 86-87, 116. Nov. 1948. 99.81 W52

10713 WALKER, R. D., JR. Yeast from Florida sulfite waste liquor. *Fla. Engin. and Indus. Expt. Sta. Tech. Paper* 16: 145-152. Sept. 1947. 250.9 F66T

10714 WOOD Working Digest, 50th anniversary and directory issue. *Wood Working Digest* 50(10), 372 p. Oct. 1948. 99.82 W87

#### Building Construction

10715 CAMPREDON, J. L'utilisation de la colle dans la charpente. *Paris. Inst. Tech. du Bâtiment et des Trav. Pub. Cent. d'Études Supér. C., Sér. H* 20, 16 p. May 1947. 290.9 P212

10716 HARTMAN, L. A. Technique and organization of the building of prefabricated wooden houses. (In Swedish.) *Svensk Trävaru-Tidn. Svensk Pappersmassetidn. Årsnummer* 1947: 171-172. 99.81 Sv2

10717 IABLOKOFF, A. K. Le bois français et les constructions aéronautiques. *Rev. du Bois* 3(9/10): 5-7. Sept./Oct. 1948. 99.82 R32

10718 MATHIESEN, H. K. Systematic building of forest lodging. (In Norwegian.) *Tidsskr. for Skogbruk* 56: 22-24. Jan./Feb. 1948. 99.8 T432

10719 REECE, P. O. Constructional research in timber. *Brit. Columbia Lumberman* 32(10): 63-64, 112. Oct. 1948. 99.81 B77

#### Charcoal

10720 CASADO CALVO, J. A. La destilación de la madera resinosa. *Indus. y Quím.* 10: 37-40. Apr./May 1948. 385 In28

10721 HULSHOF, H. J. Preparation of charcoal in Achterhoek. (In Dutch.) *Landbouwk. Tijdschr.* 59: 261-263. June/July 1947. 105.2 Or3

10722 VILA, A. Recherches sur la distillation du bois. *Rev. du Bois* 3(9/10): 20-21. Sept./Oct. 1948. 99.82 R32

#### Containers

10723 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Tests on medium size cable boxes, by F. Haver and C. E. Dixon. *South Melbourne*, 1948. 7 p. (Sub-proj. T.M. 3-17, Prog. Rpt. 2) 99.79 Au7Te

10724 BERG, H. Cooperage handling. *Fruit Prod. J. & Amer. Food Mfr.* 28: 70-74. Nov. 1948. 389.8 F94 Cleaning.

10725 HINTZE, L. C. Containers are important. *Wood Working Digest* 50(10): 186. Oct. 1948. 99.82 W87

#### Cork

10726 LIMA, H. P. DE. The production of cork in North Africa. (In Portuguese.) *Portugal. Junta Nac. da Cortiça. B.* 10(108): 613-615. Oct. 1947. 309.9 J96 English summary, p. C-CII.

10727 MEDIR JOFRA, R. La industria corchera (descripción general). *Montes* 4: 449-455. Sept./Oct. 1948. 99.8 M763

10728 MICHELS, L. L'économie subéricole portugaise. *Vie Écon. et Sociale* 19: 100-130. Mar. 1948. 280.8 Ec79

#### Furniture

10729 CRUSE, W. T. How plastics serve the furniture industry. *Furniture Mfr.* 63(11): 26, 54. Nov. 1948. 300.8 F982

10730 GRAHAM, P. H. How Windsor chairs are manufactured. *Natl. Hardwood Mag.* 22(11): 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140. Dec. 1948. 99.81 N212

10731 NIEDERKROM, A. Schulbank oder schulgestühl? *Holz-Zentbl.* 74: 459. Oct. 22, 1948. 99.81 H742

#### Naval Stores

10732 BAIN, J. P. Gum naval stores products developed to meet new needs. *Naval Stores Rev. Internatl. Ybk.* 1948: 120-121. 309 G14N

10733 BRIGGS, M. S., and FREEMAN, R. E. Price support programs for gum naval stores 1934-1948. *Naval Stores Rev. Internatl. Ybk.* 1948: 107-111. 309 G14N

10734 CAUSSEQUE, D. Fédération des gemmeurs et métayers du Sud-Ouest: les commissions paritaires du travail en agriculture. *Bois et Résineux* 30(1476): 1. Oct. 20, 1948. 99.82 B63

10735 CLEMENTS, R. W. Station announces results of 1947 acid pilot-plant tests. *AT-FA Journal* 10(12): 8, 16. Sept. 1948. 309.8 Am3

10736 HAWKINS, J. E. Naval stores research at the University of Florida. *Naval Stores Rev. Internatl. Ybk.* 1948: 114-115. 309 G14N

10737 HOWARD, H. E. The naval stores conservation program. *Naval Stores Rev. Internatl. Ybk.* 1948: 105-107. 309 G14N

10738 LANGDALE, H. The American Turpentine Farmers Association Cooperative. *Naval Stores Rev. Internatl. Ybk.* 1948: 112-113. 309 G14N

10739 MANN, W. F., JR. Combined bark hack and acid bottle saves time. *AT-FA Journal* 10(12): 11. Sept. 1948. 309.8 Am3

10740 MIMS, L. W. Status of the destructively distilled naval stores industry. *Naval Stores Rev. Internatl. Ybk.* 1948: 119-120. 309 G14N

10741 NASH, J. C. Naval stores, problems and trends. *Naval Stores Rev. Internatl. Ybk.* 1948: 99. 309 G14N

10742 NAVAL stores review international yearbook, 1948. *New Orleans, La.*, 1948. 130 p. 309 G14N

10743 CSTROM, C. E. Naval stores research at the Lake City Branch of the Southeastern Forest Experiment Station. *Naval Stores Rev. Internatl. Ybk.* 1948: 103-105. 309 G14N

10744 RAU, O. Die deutsche scharrhartz-gewinnung. *Forstw., Holzw.* 2: 252-253. Aug. 15, 1948. 99.8 F7793

10745 SCHOEN, P. W. The Forest Farmers Association Cooperative. *Naval Stores Rev. Internatl. Ybk.* 1948: 116-119. 309 G14N

10746 SHEA, B. E. Naval stores supply situation. *Naval Stores Rev. Internatl. Ybk.* 1948: 115. 309 G14N

10747 SHINGLER, G. P. Recent achievements in naval stores research by the Naval Stores Division, Bureau of Agriculture and Industrial Chemistry. *Naval Stores Rev. Internatl. Ybk.* 1948: 100-103, 126-129. Ref 309 G14N

10748 SNOW, A. G., JR. Gum yields good during five years of biweekly sulfuric acid treatment. *AT-FA Journal* 10(11): 9. Aug. 1948. 309.8 Am3

10749 U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION. Annotated bibliography of naval stores practices and the management of naval stores timber, 1947. *Asheville, N. C.*, 1948? 5 p. 1.9622 S4An72

10750 WILLIAMS, C. Business in Eizonia: naval stores are now bought on bid basis. *Naval Stores Rev.* 58(35): 16-17. Nov. 27, 1948. 99.81 N22

#### Pulp and Paper

10751 AMERICAN PAPER AND PULP ASSOCIATION. A capital and income survey of the United States pulp and paper industry, 1934-1946, by L. T. Stevenson. *New York*, 1947. 15 p. 302 Am32C

10752 AMERICAN PULP AND PAPER MILL SUPERINTENDENTS ASSOCIATION, INC. Yearbook, 29, 1948. *New York*, 1948. 420 p. 302.9 Am35

10753 AMERICAN PULPWOOD ASSOCIATION. Annual meeting, 14, 1948. *New York*, 1948. 87 p. 99.9 Am33

10754 BAILEY, A. Solubility and extraction studies of lignin. *Paper Indus. & Paper World* 30: 1196-1199. Nov. 1948. 302.8 P1923



- 10755 BRADY, H. V. Recent pulp and paper developments in the United States. *Svensk Trävaru-Tidn. Svensk Pappersmassetidn. Årsnummer 1947*: 154-157, 159. 99.81 Sv2
- 10756 BROWN, C. O. Pulpwood supply situation and problems facing production, summary. *Amer. Pulpwood Assoc. Ann. Mtg. 14*: 28-29. 1948. 99.9 Am33
- 10757 CANADA. BUR. OF STATISTICS. CENSUS OF INDUSTRY. FOREST PRODUCTS STATISTICS. \* Preliminary report on the pulp and paper industry in Canada, 1947. Ottawa, 1948. 35 p. 302.9 C162
- 10758 ECHEVERRIA, I. La ciencia ante la crisis mundial de la celulosa. *Montes 4*: 249-258. May/June 1948. 99.8 M763
- 10759 FOGH, I. F. Pulpwood supply situation and problems facing production, Canada. *Amer. Pulpwood Assoc. Ann. Mtg. 14*: 20-24. 1948. 99.9 Am33
- 10760 FREUDENBERG, K. Zur sauerstoffbilanz des Lignins. *Papier 1*: 209. Dec. 1947. 302.8 P1934
- 10761 GILLESPIE, W. F. Trends in the development of the sulphate industry in the South. *Fibre Containers 34(11)*: 44, 49-50. Nov. 1948. 286.8 F44
- 10762 HANSEN, S. Paper - history. (In Norwegian.) *Norsk Skogindus. 2*: 264-269. Oct. 1948. 99.82 N81
- 10763 HAUPT, K. Zellstoffprobleme im zweijahresplan. *Forstw., Holzw. 2*: 260-261. Sept. 1, 1948. 99.8 F7793
- 10764 HORN, A. G. Lake States pulpwood production declines in 1947. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 301, 2 p. Oct. 1948. 1.9 F7625T
- 10765 IMSET, O. Pulp beating in paper manufacture. (In Swedish.) *Suomen Paperi- ja Puutavaraletti 30*: 309-313, 337-340. Sept. 30-Oct. 15, 1948. 302.8 P1991 English summary.
- 10766 JAYME, G. Über den einfluss der sorte und des standortes auf die chemische zusammensetzung und eignung von pappelholzern zur zellstoffgewinnung. *Papier 1*: 182-190. Nov. 1947. 302.8 P1934
- 10767 JENNESS, L. C., and NYSTROM, G. L. Sulphite semi-chemical pulping of chip screenings. *Maine. U. Technol. Expt. Sta. Paper 54*, 3 p. Ref. 1948. 290.9 M28P
- 10768 MCCAFFREY, J. E. Southern pulpwood supply situation. *Amer. Pulpwood Assoc. Ann. Mtg. 14*: 25-27. 1948. 99.9 Am33
- 10769 MALSBERGER, H. J. The conservation program of the Southern Pulpwood Conservation Association. *Amer. Pulpwood Assoc. Ann. Mtg. 14*: 30-32. 1948. 99.9 Am33
- 10770 MILLER, B. The paper situation in France. (In Swedish.) *Svensk Trävaru-Tidn. Svensk Pappersmassetidn. 1948*: 1034-1037. 99.81 Sv22
- 10771 MÜLLER, E. U. Die papierindustrie der vereinigten Westzonen im jahre 1948. *Papier 1*: 239-241. Dec. 1947. 302.8 P1934
- 10772 MURTO, J. O. Chipping of pulp wood. II. (In Finnish.) *Suomen Paperi- ja Puutavaraletti 30*: 383-393. Nov. 15, 1948. 302.8 P1991 English summary.
- 10773 RONEBERG, L. Future trends of the pulp and paper industry in Canada. (In Swedish.) *Svensk Trävaru-Tidn. Svensk Pappersmassetidn. Årsnummer 1947*: 162-164, 167-168. 99.81 Sv2
- Veneers, Plywood, and Adhesives
- 10774 BOOTH, F. L. Veneered cedar chests in production. *Veneers and Plywood 42(11)*: 18, 20-21. Nov. 1948. 99.82 V55
- 10775 BOOTH, F. L. Veneering in interior door manufacture. *Veneers & Plywood 42(10)*: 18, 20-21. Oct. 1948. 99.82 V55
- 10776 COUSINS, F. W. The recent literature of high frequency heating as applied to wood. *Timber News 56*: 414-416. Nov. 1948. 99.81 T482
- 10777 EGNER, K. Heissverfahren der kunstharz-leimung in der holztechnik. *Holz-Zentbl. 74*: 437. Oct. 15, 1948. 99.81 H742
- 10778 FLEISCHER, H. O. Reduction of waste in the veneer and plywood industry. *Wood Working Digest 50(10)*: 199-200, 202, 204, 206, 208, 210-211. Oct. 1948. 99.82 W87
- 10779 FREY, J. M. H.F. insures Ford's future. *Wood [Chicago] 3(9)*: 18-20. Sept. 1948. 99.82 W859
- 10780 HYLER, J. E. Drying green veneer. *Veneers & Plywood 42(10)*: 32, 34-35. Oct. 1948. 99.82 V55 Equipment.
- 10781 KINN, T. P., and KIRBY, R. E. Dielectric heat, wood-fabrication tool. *Wood Working Digest 50(10)*: 169-172, 174, 176, 178, 180, 182, 184, 186. Oct. 1948. 99.82 W87
- 10782 LOVE, E. M. Gluing lumber edge to edge. *Pop. Sci. 153(6)*: 229-232. Dec. 1948. 470 P81
- 10783 MARRA, A. A. The technology of the glue line in electronic edge-gluing. II. *Furniture Mfr. 63(11)*: 24, 30, 55, 58-59. Nov. 1948. 300.8 F982
- 10784 NARAYANAMURTI, D., and DAGG, G. D. Studies on adhesives. X. Adhesives from castor seed cake and its proteins. *Forest Res. Inst., Dehra Dun. Indian Forest Leaflet 100*, 8 p. 1947. 99.9 F768
- 10785 NARAYANAMURTI, D., RANGANATHAN, V., and AGARWAL, O. P. Studies on adhesives. XII. A preliminary note on cresol-formaldehyde and cresol-casein-formaldehyde-adhesives for plywood. *Forest Res. Inst., Dehra Dun. Indian Forest Leaflet 97*, 8 p. 1947. 99.9 F768
- 10786 NICHOLS, W. Modern assembly gluing I. *Timber News 56*: 433-434. (To be cont.) Nov. 1948. 99.81 T482
- 10787 PERRY, T. D. Glue spreaders. *Wood Prod. 53(11)*: 39-42, 44-45. Nov. 1948. 99.82 W856
- 10788 PERRY, T. D. Plywood containers. *Wood Working Digest 50(11)*: 145-146, 148, 150, 152, 154, 156, 158, 160. Nov. 1948. 99.82 W87
- 10789 STANLEY, G. W., JR. The facts about high frequency in woodworking. *Natl. Hardwood Mag. 22(10)*: 59-61, 72, 74. Nov. 1948.
- 10790 STANLEY, G. W., JR. Methods of panel to frame bonding. *Natl. Hardwood Mag. 22(9)*: 59-60, 68. Oct. 1948. 99.81 N212
- 10791 THOMPSON, G. Some major problems of 1949 in the plywood industry. *Wood Working Digest 50(11)*: 128-130, 132, 134, 136, 138. Nov. 1948. 99.82 W87
- Wood as Fuel
- 10792 VILA, A. L'exploitation rationnelle des bois de feu en forêt. *Acad. d'Agr. de France. Compt. Rend. 34*: 803-808. Ref. June 30/July 7, 1948. 14 P215Bc
- MISCELLANEOUS
- 10793 BURGER, H. Geschichte, tätigkeit und ziele unserer forstlichen versuchsanstalt. *Schweiz. Z. f. Forstw. 99*: 449-469. Sept./Oct. 1948. 99.8 J82
- 10794 CAFFERATA, R. E. Conservación de los bosques. Buenos Aires, 1947. 14 p. 99.5 C12
- 10795 DAMTOFT, W. J. Conservation. *Amer. Pulpwood Assoc. Ann. Mtg. 14*: 40. 1948. 99.9 Am33
- 10796 DIETERICH, V. Zur neuregelung der forstorganisation in Südwestdeutschland. *Holz-Zentbl. 74*: 487-488. Nov. 2, 1948. 99.81 H742
- 10797 DOERING, W. DLG. und die deutsche forstwirtschaft. *Neue Mitt. f. die Landw. 3*: 146. May 21, 1948. 18 N39 Deutsche Landwirtschafts-Gesellschaft.
- 10798 EIDES, E. Norwegian forestry during 50 years. (In Norwegian.) (Excerpts.) *Skogbrukeren 23*: 77-79. Apr. 1, 1948. 99.8 Sk54
- 10799 GEETE, E. Diet in forest labor camps. (In Swedish.) *Skogsägaren 23*: 147-149. Aug. 1947. 99.8 Sk55
- 10800 GOBLET D'ALVIELLA, COMTE. Cahiers forestiers. Paris, Lechevalier, 1947. v. 2, 405 p. 99.45 G53C
- 10801 GODARD, C. Les hommes dans la forêt coloniale. *Bois et Scieries 54*: 765-767. (To be cont.) Oct. 7/14, 1948. 99.81 B632
- 10802 GREELEY, W. B. Conservation. *Amer. Pulpwood Assoc. Ann. Mtg. 14*: 33-36. 1948. 99.9 Am33
- 10803 HAIG, I. T. Putting research to work. *Amer. Forests 54*: 536-538, 566. Dec. 1948. 99.8 F762
- 10804 HARDTNER, Q. T. Our forests—yesterday, today and tomorrow. *Gulf Coast Lumberman 36(17)*: 4, 12, 26. Dec. 1, 1948. 99.81 G95
- 10805 HERTLING, K. Arbeits- und gesundheits-schutz im holzgewerbe. *Forstw., Holzw. Sup. 1*: 4-12. 1947. 99.8 F7793



- 10806 JAGERSCHMIDT. Les ingénieurs agronomes et la forêt française. (Sum.) Cahiers des Ingén. Agron. 2(20): 24-26. Feb. 1947. 14 C112  
Text in French and English.
- 10807 KAMPFRATH, W. Warum absaugvorrichtung? Forstw., Holzw. Sup. 1: 25-26. 1947. 99.8 F7793
- 10808 KIRCHER, J. C. Lessons for our profession from German forestry. J. Forestry 46: 848. Nov. 1948. 99.8 F768
- 10809 LABRIE. Pastorale sur la forêt. Forêt Québécoise 13: 574-582. (Concl.) Oct. 1948. 99.8 F79  
English summary, p. 625.
- 10810 LACOURCIÈRE, L. Le folklore forestier. Forêt Québécoise 13: 586-588. Oct. 1948. 99.8 F79
- 10811 MCARDLE, R. E. One part of the Forest Service forest conservation program. Amer. Pulpwood Assoc. Ann. Mtg. 14: 37-39. 1948. 99.9 Am33
- 10812 MEIER, W. Gefahren erkennen—gefahren meistern! Forstw., Holzw. Sup. 1: 13-21. 1947. 99.8 F7793
- 10813 MITTROWSKY, H. Eindrücke eines ausländischen praktikers vom schweizer wald. Schweiz. Z. f. Forstw. 99: 546-550. Sept./Oct. 1948. 99.8 J82
- 10814 PEARSON, H. S. Dorothy Canfield's forest. Amer. Forests 54: 556, 573. Dec 1948. 99.8 F762
- 10815 PREISSLER. Koliba, baracke oder blockhaus. Forstw., Holzw. 2: 253-254. Aug. 15, 1948. 99.8 F7793
- 10816 SCHRÖDER, W. Lose kleidung oder lange haare sind in allen betrießen ursachen unfällen. Forstw., Holzw. Sup. 1: 21-23. 1947. 99.8 F7793
- 10817 SIEBER. Ein neuer anfang in der forstwirtschaft. Forstwirtschaft., Holzwirtschaft. 2: 316. Oct. 15, 1948. 99.8 F7793  
Youth associations in Germany.
- 10818 STERLING, E. A. Conservation. Amer. Pulpwood Assoc. Ann. Mtg. 14: 44-46. 1948. 99.9 Am33
- 10819 TABAT, E. Let's have cooperative planting in the P.I. [Philippine Islands]. Agr.-Com.-Indus. Life 10 (9): 14-15, 28. Sept. 1948. 25 Ag8  
Tree planting.
- 10820 THONET, H. M. Der "waldstock," ein universelles instrument des betriebsforstmannes, ein wertvoller behelf für den forsteinrichter. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 146-147. Sept. 1948. 99.8 AL53
- 10821 TROMP, P. H. M. Rotary hoe and tillage equipment in forestry. (In Dutch.) Nederlandsch. Heidemaatsch. Tijdschr. 59: 390-394. Oct. 1948. 12 N282
- 10822 U. S. FOREST SERV. NORTHERN ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION. List of publications available for distribution or loan, 1910 through 1947. U. S. Forest Serv. North Rocky Mountain Forest and Range Expt. Sta. Paper 14, 26 p. June 1948. 1.9622 N3S1
- 10823 U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION. Bibliography of the Southeastern Forest Experiment Station, 1946/1947. Asheville, N. C., 1948. 9 p. 1.9622 S4B472
- 10824 WILLSON, L. M. Forest conservation in Colonial times. Minn. Hist. Soc. Forest Prod. Hist. Found. P. 3, 32 p. 1948. 99.9 M669
- 10825 WURM, T. Das pferd im wald unentbehrlich. Holz-Zentbl. 74: 470. Oct. 26, 1948. 99.81 H742
- Education
- 10826 ABELL, J. A school for forest workers. (In Danish.) Dansk Skovfor. Tidsskr. 33: 48-60. Feb. 1948. 99.8 D23
- 10827 ADAMS, E. Woodsmen schoolboys. Forest & Outdoors 44(12): 14-15. Dec. 1948. 99.8 C16  
Forest rangers in Ontario.
- 10828 BENNETT, A. L. Training woods labor and some related problems. Amer. Pulpwood Assoc. Ann. Mtg. 14: 55-57. 1948. 99.9 Am33
- 10829 DIETERICH, V. Forstliche betriebswirtschaftslehre. Ed. 2, rev. Berlin, Parey, 1948. v. 3, 338 p. 99.55 D56
- 10830 GRANLUND, T. Views on forest education. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 59-65. 1948. 99.8 Sk5
- 10831 HÄGGLUND, E. The higher technical instruction in regard to cellulose and paper in Sweden. (In Swedish.) Svenska Träforskningsinst. Träkemi och Papperstek. Meddel. 31, 3 p. Stockholm, 1948. 99.9 St62
- 10832 HAMLIN, M. E. Labor training. Amer. Pulpwood Assoc. Ann. Mtg. 14: 53-54. 1948. 99.9 Am33
- 10833 HOOKER, L. W. Proposal for the establishment of Lake States Logging Laboratory at Michigan College of Mining and Technology. Timber Prod. Assoc. B. 68: 3-4, 17. (To be cont.) Nov. 1948. 99.9 T482B
- 10834 JEFFERS, D. S. Forest products at [University of] Idaho. Wood [Chicago] 3(10): 32, 38, 40. Oct. 1948. 99.82 W859
- 10835 LANSIGAN, N. P. The School of Forestry and its post-war responsibility. Philippine Isl. U. Forestry Leaves 2(5): 9-12, 21. July 1948. 99.8 P532
- 10836 LEIBUNDGUT, H. Grundzüge der schweizerischen waldbaulehre. Schweiz. Z. f. Forstw. 99: 477-483. Ref. Sept./Oct. 1948. 99.8 J82  
French summary.
- 10837 NEW YORK STATE COLLEGE OF FORESTRY. Today and tomorrow: a summary by the dean, 1944-1947. N. Y. State Col. Forestry, Syracuse U. B. 21(4), 85 p. May 1948. 99.9 N486B
- 10838 O'BYRNE, W. Need for more forestry subject matter to be taught to agricultural students. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 110-111. 1948. 4 C82
- 10839 OGRINC, J. P. A farm forestry program for rural schools. Timber Prod. Assoc. Monthly B. 4(3): 14-15. Nov. 1948. 99.9 T487
- 10840 POND, T. M. Labour training. Amer. Pulpwood Assoc. Ann. Mtg. 14: 47-52. 1948. 99.9 Am33
- 10841 SPICER, O. W., and MARSHALL, R. P. Sheep's clothing for wolves. J. Forestry 46: 807-809. Nov. 1948. 99.8 F768  
Study and teaching of forestry and arboriculture.
- 10842 SWENNING, K. A. Labor training. Amer. Pulpwood Assoc. Ann. Mtg. 14: 58-59. 1948. 99.9 Am33
- 10843 U. S. FOREST SERV. Forest service films available on loan for educational purposes. Washington, 1948? 14 p. 1.962 A2F76
- 10844 WESTON, R. F., HOLLINGSWORTH, and WHITNEY. Education for timberland owners. Forest Farmer 7(2): 9-10. Nov. 1948. F7692
- Forest Engineering
- 10845 CRIVELLARI, D. Considerations on the renewal of the work of forest drainage. (In Italian.) Ital. Forest. e Mont. 3: 230-235. July/Aug. 1948. 99.8 It12
- Forest Influences
- 10846 BULLARD, W. E. Study of relation of forests to water supply needed. Oreg. Business Rev. 7(6): 1, 4-5. June 1948. 280.8 Or34
- 10847 KOZMENKO, A. S. Principles of classifying forests planted to improve the flatland regions of European U. S. S. R. (In Russian.) Vsesoiuzn. Nauch. Issled. Inst. Agrolesomeliior. Itogi Rabot 1944/45: 51-72. 1947. 106 M859
- 10848 NIKITIN, P. D. Types and character of forests planted to improve the region. (In Russian.) Vsesoiuzn. Nauch. Issled. Inst. Agrolesomeliior. Itogi Rabot 1944/45: 18-50. 1947. 106 M859  
Includes windbreaks.
- 10849 STRELE, G. Über die beziehungen zwischen wald und klima. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 144-146. Ref. Sept. 1948. 99.8 AL53
- 10850 TAYLOR, N. H. Forests and water. Forest & Bird 87: 12-13. Feb. 1948. 413 N42
- Wildlife
- 10851 CHAPMAN, F. B. Tree and shrub units for wildlife habitat improvement. Wildlife Conserv. B. 3, 18 p. Dec. 1947. 279.9 Ch33W



## ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

## BREEDS AND BREEDING

10852 ALTARA, I. Artificial insemination in the control of sterility. *Prog. Vet.* 3: 174-176. June 1, 1948. 41.8 P942

10853 ARAMENDI, M. C. La esterilidad. *Agr. Costarricense* 6: 153-154, 156. July/Aug. 1948. 8 Ag895

10854 ASDELL, S. A. The reproduction of farm animals. *N. Y. Agr. Col. Cornell Ext. B.* 305, rev., 27 p. June 1948. 275.29 N48E

10855 BORGIOI, E. The hormones and their importance in the field of reproduction and fecundity. II. (In Italian.) *Riv. di Zootec.* 21: 234-239. Ref. July 1948. 49 R52

10856 BROWN, H. G. Le cheptel mondial sera-t-il reconstitué grâce à l'insémination artificielle? *Monde Paysan* 3(120): 4. Oct. 15, 1948. 14 M742

10857 CEDERSTAM, R. Artificial insemination in Stockholm province. IV-VI. (In Swedish.) *Jordbrukarnas Föreningsblad. Upl. A: Östra Mellansverige och Gästrikland* 18(43): 8; (44): 8; (45): 8. Oct. 23-Nov. 6, 1948. 11 J762

10858 FERSTNER, O. Zur frage der künstlichen besamung. *Kärntner Bauer* 98: 320-321. Oct. 1, 1948. 19 K14

10859 FLANGINI, S. Gynecological surgery and artificial insemination at Vicenza. (In Italian.) *Prog. Vet.* 3: 135-138. May 1, 1948. 41.8 P942

10860 GIEDOSZ, B. On the vitamin E. Is it a so-called synprolan? (In Polish.) *Med. Wet.* 4: 471-475. Ref. Aug. 1948. 41.8 M463

French summary.

Effect on fertility in animals.

10861 GILLARD, A. L'insémination artificielle chez nos espèces animales domestiques. *Rev. Agr. de l'île Réunion (n. s.)* 48: 131-142. (Concl.) May/June 1948. 25 R32

10862 HANSSON, A. Experiences with artificial insemination in America. (In Swedish.) *Lantmannen* 32: 130-131. Feb. 21, 1948. 11 L234

10863 HENNAUX, L. À propos de l'insémination artificielle. *Rev. de l'Agr.* 1: 571-574. July/Aug. 1948. 13 R322

10864 JOHANSSON, I. Artificial insemination in U. S. A. (In Swedish.) *Lantmannen* 32: 248-250. Apr. 10, 1948. 11 L234

10865 KAPLAN, M. M. The optimum time for breeding mares and cows in relation to their heat cycles. (In Polish.) *Med. Wet.* 4: 497-499. Aug. 1948. 41.8 M463

English summary.

10866 KOCH, P. Das konstitutionsproblem in der tierzucht. *Berlin. u. München. Tierärztl. Wochnschr.* 1948: 37-40. Apr. 1948. 41.8 B45

10867 LLORENS, M. A. Práctica de la inseminación artificial en la Argentina. *Esnea* 35(1505): 1. (To be cont.) Nov. 9, 1948. 44.8 Es5

10868 LUCHINI, G. Reproduction and artificial insemination. (In Italian.) *Agr. Bresciana* 1(36): 1. Sept. 8, 1948. 16 Ag89

10869 MALARSKI, H. The necessity of organising scientific experimental investigations in animal breeding. (In Polish.) *Przegl. Hodowlany* 16: 201-208. July 1948. 49 P952

10870 NICHOLS, J. E. General principles of animal improvement. *Brit. Agr. B.* 1: 3-7. Ref. Spring 1948. 10 B776

Chiefly breeding.

10871 PISSALOUX, R. Les problèmes de la sélection animale en Tunisie. *Tunisie Agr.* 49: 117-136. July/Aug. 1948. 24 T832

10872 QUEVEDO, C. La conferencia del Dr. Cipriano Quevedo sobre cooperativas de inseminación artificial. *Esnea* 35(1504): 5. (Concl.) Nov. 3, 1948. 44.8 Es5

10873 RETZL, J. Zukunftsaufgaben der österreichischen tierzuchtförderung. *Wiener Tierärztl. Monatschr.* 34: 709-725. Dec. 1947. 41 T345

10874 SELL. Erfolg und stand der rinderbesamung in Schleswig-Holstein. *Neue Mitt. f. die Landw.* 3: 250-251. Aug. 21, 1948. 18 N39

10875 SOBEK, V. Artificial insemination. (In Czech.) *Časopis Českoslov. Vet.* 3: 606-608. Oct. 25, 1948. 41.8 C27

10876 TASSINARI, R. Activity of the Artificial Insemination Center at Montebelluna, Treviso. (In Italian.) *Zootec. e Vet.* 3: 306-308. Apr./May 1948. 41.8 Z7

10877 ZORN, W. Forschende tierzucht—helfende praxis. *Bavaria. Landesanst. f. Tierzucht in Grub. Mitt.* 1948(3/4): 28-30. 1948. 49 B32

## FEEDS AND FEEDING

10878 ASHTON, G. C. Some recently established nutritional facts. *Milling & Feed* 29(11): 9. Nov. 1948. 298.8 C162

10879 AXELSSON, J. CA and P content in feed. (In Swedish.) *Försök och Forskning* 4: 17-19. Feb. 1947. 11 F77

10880 BECKER, M. Wirkliche veredlungsverluste bei tierischen produktionen. *Neue Mitt. f. die Landw.* 3: 395. Nov. 15, 1948. 18 N39

10881 BENNETT, H. W. Preliminary tests with oats for winter grazing. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 27. 1948. 4 C82

10882 BERNARD, P. À la recherche d'une alimentation économique du bétail. *Monit. Agr.* 1(37): 2. Sept. 26, 1948. 14 M744

10883 BONADONNA, T. Utilization of cheese industry wastes in livestock feeding. (In Italian.) *Mondo del Latte* 1948(9): 13-14, 16-17, 19. Sept. 1948. 44.8 M74

Summary in French and English.

10884 BREIEREM, K. Quality of the 1948 hay crop. (In Norwegian.) *Norsk Landbr.* 14: 429-433. Nov. 26, 1948. 11 N8122

10885 CORREA, O. Iodine for livestock. (In Portuguese.) *Chacaras e Quintais* 78: 306. Sept. 15, 1948. 9.2 C34

10886 COX, R. F., and WEBER, A. D. Winter wheat for livestock. *Kans. State Bd. Agr. Bien. Rpt.* (1945/46) 35: 37-50. 1948. 2 K13R

Wheat pasturing.

10887 DAVIS, G. K. Winter grazing is valuable. *Fla. Grower* 56(11): 27-28. Nov. 1948. 80 F6622

10888 DAVISON, W. The manufacture of ensilage. *Bangalore Dairy Cattle Soc. Monthly B.* 7: 69-70. (Cont.) Aug. 1948. 43.9 B22

10889 DEVINAT, P. L'importance des protéines dans l'alimentation du bétail. *Rev. Agr. de l'Afrique du Nord* 46: 437-438. Aug. 27, 1948. 80 R326

10890 DUE, P. R. Blood meal. (In Danish.) *Dansk Landbr.* 67: 380. Oct. 7, 1948. 280.28 V91

10891 DUPUY, P. Les utilisations par les animaux des sous-produits du blé; quelle est leur valeur alimentaire? *J. de la France Agr.* 4(174): 1, 4. Oct. 29/Nov. 4, 1948. 14 J829

10892 ELLIS, N. R. Animal nutrition research in the Southern States. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 102-103. 1948. 4 C82

10893 ENGELS. Zur problematik der futtermittelkunde. *Kurzbriefe f. Ernähr. u. Landw.* 1948(9): A III 2a, 4 p. (To be cont.) Sept. 1948. 281.8 K96

10894 ERIKSEN, S. Livestock feeding. *Cent. Exch. Messenger* 3(9): 24-25, 30. Dec. 1948. 280.28 C33

10895 FERGUSON, J. Urea, molasses combined in "sweet new protein." *West. Feed & Seed* 3(7): 6, 11. Sept. 1948. 389.78 W52

10896 FRASER, A. "The importance of the protein today comes perilously near ancestor worship, but is it science?" *Farmers Weekly [London]* 29(21): 39. Nov. 19, 1948. 10 F2226

Animal nutrition.

10897 GONZALEZ, A. DE J. La conservación de forraje verde en silos. *Agronomía [Habana]* 8 (8): 24-25. Aug. 1948. 8 C893



- 10898 GROOT, H. DE. Determination of feed value of roughage. (In Dutch.) Nederlands. Landbouwworlichtingsdienst. Meded. 52, 21 p. 1947. 12 N383
- 10899 HAMILTON, T. S. Is the tendency toward lower-fat-content soybean meal detrimental in livestock and poultry feeding? Ill. Agr. Col. Ext. AG1348, p. 28-30. Dec. 30, 1947. 275.29 IL62p
- 10900 HAY, W. D. Self-sufficiency in Holland, Denmark and Sweden. Gt. Brit. Min. Agr. Agriculture 55: 286-289. Oct. 1948. 10 G79J  
Provision of home-grown fodder.
- 10901 HOSIER, A. J. Kale for winter protein. Gt. Brit. Min. Agr. Agriculture 55: 331-333. Nov. 1948. 10 G79J
- 10902 JARL, F. Experiments on the preparation and nutritive value of silage. I. (In Swedish.) Sweden. Lantbrukshögsk. Husdjurförsöksanst. Meddel. 32, 96 p. Ref. Katrineholm, 1948. 104 Up62  
English summary.
- 10903 JARL, F. New investigations on the nutritive value of the by-products of sugar beet cultivation. (In Swedish.) Socker 4: 146-158. July 1948. 65.8 S01  
English summary.
- 10904 KOCH, M. Bakterien zur silofutterbereitung. Landpost 4(12): 4-5. June 25, 1948. 18 L2329
- 10905 LAARHOVEN, J. H. J. VAN. Value of leguminous plants as cattle feed. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 60: 40-45. Jan./Feb. 1948. 105.2 Or3
- 10906 LINDSTRÖM, T. AIV-feed; advice and observations. (In Swedish.) Västerbotten 1947: 115-119. Dec. 1947. 11 V442
- 10907 LUCAS, H. L. The design of livestock experiments. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 104-106. 1948. 4 C82  
Feeding.
- 10908 MANGOLD, E., and COLUMBUS, A. Grossvieheinheiten nach futternormen. Tierzucht 2: 17-22. Feb. 1948. 49 T443
- 10909 MORRISON, F. B. Feeds and feeding; a handbook for the student and stockman. Ed. 21. Ithaca, N. Y., 1948. 1207 p. 389.7 M833
- 10910 MORRISON, F. B. Good pasture vitamin insurance. Oreg. Farmer 71: 836, 847. Nov. 18, 1948. 6 Or32
- 10911 MORRISON, F. B. Good roughages solve most protein troubles. Wash. Farmer 73: 752. Oct. 21, 1948. 6 R151
- 10912 MORRISON, F. B. Important new discoveries in livestock feeding. Hog Breeder 23(11): 6-7, 10-11, 31. Nov. 1, 1948. 46.8 H672  
Also in West. Livestock Rptr. 11: 17, 38, 40, 45. Nov. 3, 1948. 286.85 W523
- 10913 MORRISON, F. B. Stock easily supplied with minerals. Wash. Farmer 73: 804, 808. Nov. 4, 1948. 6 R151
- 10914 MORRISON, F. B., and WARD, W. Taking the guess out of feeds and feeding. Successful Farming 46 (12): 40-41, 152-153. Dec. 1948. 6 Su12
- 10915 MÜLLER-LENHARTZ. Zur vitamin- und mineralstofffrage in der ernährung der nutztiere. Tierärztl. Umschau 2: 265-266. Nov. 1947. 41.8 T445
- 10916 NEWTON, T. How beet by-products help the dairy farmer. Brit. Sugar Beet Rev. 17: 31-32. Sept. 1948. 66.8 B77  
Feed.
- 10917 POELT, H. Gärfutterbereitung mit kohlen-säure. Landw. Wchnbl. 138: 249-250. Sept. 11, 1948. 18 L2338
- 10918 PROTEINS and "protein poisoning." Nutr. News B. 4(4), 4 p. Oct. 1948. 389.78 N95  
Livestock.
- 10919 RASMUSSEN, R. A. The role of distillers feeds in animal nutrition. (Excerpts.) Amer. Miller & Processor 76(11): 66, 70, 72. Nov. 1948. 298.8 Am32
- 10920 RINEHART, E. F. Potatoes as a livestock feed—as a supplementary feed potatoes are valuable. Utah Farmer 68(8): 28, 30. Nov. 25, 1948. 6 D45
- 10921 SAINT-QUENTIN, M. L'ensilage mixte des pulpes et des verts de betteraves est à conseiller. Rustica 21: 765. Oct. 31, 1948. 14 R92
- 10922 SCACCAGLIA, R. Mineral salts in animal nutrition. (In Italian.) Avvenire Agr. 56: 162-163. July 1948. 16 Av9
- 10923 SCHARRER, K. Die bedeutung der mineralstoffe für die tierische ernährung. Tierärztl. Umschau 2: 197-203. Ref. Sept. 1947. 41.8 T445
- 10924 SCHEUNERT. Die vitaminversorgung unserer haustiere. Allgäuer Bauernbl. 16: 233-235. Oct. 1, 1948. 18 AL53
- 10925 SCHUBERT, G. Funktionen der spurenelemente im tierischen organismus. Wiener Tierärztl. Monatsschr. 34: 744-747. Dec. 1947. 41 T345
- 10926 SCHUURMANS, D. Vitamine A and carotene. (In Dutch.) Landbouwk. Tijdschr. 59: 238-260. June/July 1947. 105.2 Or3  
English summary.  
In feed and livestock feeding.
- 10927 SMITH, I. Analysis of some samples of this year's hay crop. (In Norwegian.) Norsk Landbr. 14: 438-439. Nov. 26, 1948. 11 N8122
- 10928 SOTOLA, J. Knowing how to use feed and pasture makes money for stockman. Wash. Farmer 73: 873, 892. Dec. 2, 1948. 6 R151
- 10929 STEENBERG, V., and WINTHER, J. E. Digestibility of sugar beets, some forage plant crops etc. (In Danish.) Denmark. Statens Husdyrbrug. Forsøgslab. Beret. 231: 7-67. 1948. 104 D41
- 10930 STEENBERG, V. Sugar beet and rutabaga feeding experiments. (In Danish.) Denmark. Statens Husdyrbrug. Forsøgslab. Beret. 231: 68-77. 1948. 104 D41  
Nutritive value.
- 10931 STEVENSON, J. W., and SOUTHWELL, B. L. Sugarcane an economical winter roughage for the Lower Coastal Plain of Georgia. Ga. Coastal Plain Agr. Expt. Sta. C. 13, 11 p. Aug. 1948. 100 G292
- 10932 TALLARICO, G. Fresh summer forage: alfalfa and sprouted vines. (In Italian.) Ital. Agr. 85: 557-562. Oct. 1948. 16 It1
- 10933 TALLARICO, G. Fresh summer forage: the shrubby mulberry. (In Italian.) Italia Agr. 85: 506-512. Sept. 1948. 16 It1
- 10934 TROW-SMITH, R. Health and the short ley; simple mixtures are not enough—the grazing animal demands rough herbage as well as protein-high grass. Farmer & Stock-Breeder 62: 2531. Nov. 2, 1948. 10 F228
- 10935 ULVESLI, O. Potatoes as feed. (In Norwegian.) Norsk Landbr. 14: 372-373. Oct. 15, 1948. 11 N8122
- 10936 USUELLI, F. Minerals in livestock rations; deficiencies. (In Italian.) Humus 4(3): 5-8. Mar. 1948. 16 H88
- 10937 UTILIZATION of byproducts of the cheese industry in livestock feeding. (In Italian.) Mondo del Latte (1948) 8: 11, 13-14, 16-17. (To be cont.) Aug. 1948. 44.8 M74  
Summary in French and English.
- 10938 VARDEHAUG, A. Potato silage with second cutting of hay in it. (In Norwegian.) Norsk Landbr. 14: 123-124. Mar. 19, 1948. 11 N8122
- 10939 WATSON, S. J. Kale silage. Farming [Norwich] 2: 339-342. Nov. 1948. 10 F2236  
Preparation.
- 10940 WEBER, A. D. Stretching protein dollars. Kans. State Bd. Agr. Bien. Rpt. (1945/46) 35: 50-59. 1948. 2 K13R  
Livestock nutrition.
- 10941 WESSEN, V. Care of forage plants. (In Swedish.) Västerbotten 1947: 66-69. Aug. 1947. 11 V442  
Chiefly on the manufacture of silage.
- 10942 WILLCOX, J. S. Home-grown protein. Farming [Norwich] 9: 292-293. Oct. 1948. 10 F2236
- 10943 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Wheat for livestock feeding. Wis. Agr. Col. Ext. Stencil C. 279, 8 p. Aug. 1948. 275.29 W75B
- 10944 WOODMAN, H. E. Rations for livestock. Gt. Brit. Min. Agr. & Fisheries. B. 48, 134 p. London, 1948. 10 G794B

## VETERINARY MEDICINE

- 10945 ABL. Der widerrist in seiner bedeutung für den körperbau der arbeitstiere. Tierzucht 2: 35-38. Mar. 1948. 49 T443



- 10946 ALLEN, F. E., BOYNTON, C. H., and SMITH, R. W. New Hampshire brucellosis control program. N. H. Agr. Col. Ext. C. 290, 12 p. Sept. 1948. 275.29 N45C
- 10947 APICE, M. D'. Animal brucellosis. (In Portuguese.) Rev. Agron. 12: 97-99. Apr./June 1948. 9.2 R325
- 10948 AUSTRALIA. DEPT. OF HEALTH. A review of communicable diseases of animals in Australia, with indications of their economic importance, distribution and incidence in 1946-47. Canberra, 1948. 37 p. (Serv. P. (Div. of Vet. Hygiene 3)) 41.9 Au75
- 10949 BELTRÁN MONFERRER, J. M. Zoonosis transmisibles a la especie humana. I. El carbunco bacteriano. Cám. Ofic. Sind. Agr. de Barcelona. B. 3: 214-218. Aug. 1948. 15 C14
- 10950 BERÁNEK, J. Study of the vitality of anthrax spores upon plants from infested soil. (In Czech.) Časopis Českoslov. Vet. 3: 557-563. Oct. 10, 1948. 41.8 C27
- Bacillus anthracis.
- 10951 BLANCO, E. El diagnóstico precoz de la gestación. Ceres [Valladolid], Sup. Inform. 12(406): 12. Sept. 15, 1948. 15 C33
- 10952 BLENDINGER, W. Gedanken und erfahrungen aus der praxis. Tierärztl. Umschau 2: 281-287. Dec. 1947. 41.8 T445
- In veterinary medicine.
- 10953 BLOOD, B. D. Veterinary medicine in Korea. Vet. Med. 43: 501-507. Dec. 1948. 41.8 M69
- 10954 BOMBAY PROVINCE. CIVIL VETERINARY DEPT. Annual administration report, 1945/1946. Bombay, 1947. 52 p. 41.9 B634
- 10955 CAFFE, P. Intoxicaciones del ganado por duraznillo negro (Cestrum parqui). Buenos Aires. Dir. de Med. Vet. B. 4(21/22): 58-59. 1947. 41.9 B865
- 10956 CECCARELLI, A. On the agglutinating power of the serum of animals inoculated with Brucella melitensis cultivated on the filtrate and autolysate of the same organism. (In Italian.) Nuova Vet. 24: 265-270. Aug. 1948. 41.8 N922
- 10957 CHLADEK, V. First aid to sick and injured animals. (In Czech.) Časopis Českoslov. Vet. 3: 574-576. Oct. 10, 1948. 41.8 C27
- 10958 DALLING, T. Tuberculin and tuberculin testing. Vet. Rec. 60: 527-533. Oct. 30, 1948. 41.8 V641
- Discussion, p. 533-536.
- 10959 DAVID, H. Untersuchungen über die tularämie in Österreich (1935-1945). Wiener Tierärztl. Monatsschr. 34: 523-544. Ref. Oct. 1947. 41 T345
- 10960 DENMARK. VETERINÄRDIREKTORATET. Rapport annuel du Service Vétérinaire du Danemark pour l'année 1946; résumé en français. København, 1948. 147 p. 41.9 D413
- Tables and summary in French.
- 10961 DIEGO, A. I. DE. Las enfermedades infecciosas. Agrario 13(401): 12. Sept. 1948. 9.3 Ag85
- Animal diseases included.
- 10962 DIEGO, A. I. DE. La inseminación artificial en el control de las enfermedades infecciosas. Esnea 35(1502): 1-2. Oct. 16, 1948. 44.8 Es5
- 10963 DIEGO, A. I. DE. Nociones de bacteriología: los ultravirus. Res 16: 22926-22927. Oct. 20, 1948. 286.85 R31
- 10964 DOBBERSTEIN. Vordringliche aufgaben des heutigen veterinärwesens. Deut. Landw. Gesell. Arb. (n. s.) 1: 119-127. 1947. 18 D48
- 10965 DOBBERSTEIN, J. C. A. Richtlinien für die sektion der haustiere für tierärzte und studierende der veterinärmedizin. Ed. 6, enl. Berlin, Schoetz, 1947. 99 p. 41 D653
- 10966 DREYFUS, G. Distomatosis; necesidad de iniciar una campaña de saneamiento de suelos. Peru. Dir. de Ganad e Indus. Pecuarias. Ganad. 1(3): 15-17. 49.9 P433
- 10967 EDWARDS, J. T., and GLOVER, R. E. The veterinary press: its evolution and present trends. I-II. Vet. Rec. 60: 498-504. Ref. Oct. 16, 1948. 41.8 V641
- 10968 EHLERS, K. Der deutsche tierärztestand und die "Vorschriften für die einheitliche durchführung des Lebensmittelgesetzes Art. 3, 1." Tierärztl. Umschau 2: 25-27. Feb. 1947. 41.8 T445
- 10969 FARAH, N. The problem of jaundice. Bilirubinemia in warm-blooded animals with its bearing on natural immunity and its defensive role in infections. Roy. Egypt. Med. Assoc. J. 31(7): 522-540. July 1948. 448.9 Eg93
- 10970 FETHERS, G. Vitamin A in animal health. Past. Rev. 58: 736-737. Aug. 16, 1948. 23 Au75
- 10971 FINZI, G. Sur l'emploi du sérum hyperimmun dans le traitement de la fièvre aphteuse. Rev. de Méd. Vét. [Toulouse] 99: 362-368. Aug./Sept. 1948. 41.8 R32
- 10972 FLUCKIGER, G. Combating foot-and-mouth disease by modern scientific methods. (In Polish.) Med. Wet. 4: 465-471. Ref. Aug. 1948. 41.8 M463
- 10973 FLUCKIGER, G. International organisation for combating contagious diseases in animals. (In Polish.) Med. Wet. 4: 526-530. Sept. 1948. 41.8 M463
- 10974 FORUM "General practice"- II. Iowa Vet. 19 (6): 15-17, 22-24. Nov./Dec. 1948. 41.8 Io9
- Led by G. R. Fowler; Subjects discussed: Milk fever (mastitis) in sows; urinary calculi, frothy bloat and cystic ovaries in cattle; brucellosis, swine; low vitamin A intake in cattle; worming pregnant ewes; dosage of rabies vaccine for large animals; jitterbug pigs; hog cholera virus dosage.
- 10975 FRENKEL, H. S. La lucha contra la aftosa en Holanda. Res 16: 22859-22860. Oct. 5, 1948. 286.85 R31
- 10976 FRISCHBIER. Ein beitrag zur frage der glomerulonephritis. Tierärztl. Umschau 2: 4-8. Ref. Jan. 1947. 41.8 T445
- In cattle and horses.
- 10977 GALLOWAY, I. A., HENDERSON, W. M., and BROOKSBY, J. B. Strains of the virus of foot-and-mouth disease recovered from outbreaks in Mexico. Soc. Expt. Biol. & Med. Proc. 69(1): 57-84. Oct. 1948. 442.9 So1
- Identification, p. 64-66. Pathogenicity and invasiveness, p. 66-69. Complement fixation tests, p. 70-74. Serum neutralization tests, p. 74-77. Vaccination experiments, p. 77-84.
- 10978 GASSNER, F. X. Applied endocrinology in veterinary medicine. Norden News 22(6): 4-5. (To be cont.) Nov./Dec. 1948. 41.8 N75
- 10979 GEROSA, G. Irrigation of meadows and health of livestock. (In Italian.) Humus 4(8): 15-17. Aug. 1948. 16 H88
- 10980 GOLD COAST. DEPT. OF ANIMAL HEALTH. Report, 1947/1948. Accra, 1948. 8 p. 41.9 G562
- 10981 GÓMEZ, O. J. Las enfermedades del ganado y su profilaxis internacional. Función de las barreras naturales y de las medidas de policía sanitaria. Ganado 2(9): 27-29. Aug. 1948. 49 G153
- 10982 GRANT, R. The incidence of animal disease; influence of breeding, feeding and environment. Past. Rev. 58: 943-944. Oct. 16, 1948. 23 Au75
- 10983 GRASSI, L. Apoplectic aphtha is conquered! (In Italian.) Prog. Vet. 3: 113. Apr. 15, 1948. 41.8 P942
- Foot and mouth disease with secondary infections.
- 10984 HABERSANG. Zum ferkelsterben in Thüringen. Tierärztl. Umschau 2: 213-214. Sept. 1947. 41.8 T445
- 10985 HARRIS, L. E. The veterinarian on the witness stand. Norden News 22(6): 6-7. Nov./Dec. 1948. 41.8 N75
- 10986 HENROTIN, L. La fièvre aphteuse en 1947. Rev. de l'Agr. 1: 282-297. Apr. 1948. 13 R322
- Belgium.
- 10987 HERZOG, E. El diagnóstico histológico más seguro de la rabia. Uruguay. Dir. de Ganad. B. Mens. 30: 170-180. (To be cont.) Apr./June 1948. 41.9 Ur8
- 10988 HOFFMANN, P. Die Bayerische Tierseuchenkasse. Allgäuer Bauernbl. 16: 235-236. Oct. 1, 1948. 18 AL53
- 10989 HOFSTEN, C. G. VON. Arsenic impregnated wood. (In Swedish.) Lantmannen 32: 780-781. Nov. 20, 1948. 11 L234
- Danger to livestock.
- 10990 INNES, D. Province pushes Bang's fight. Saskatchewan Farmer 39(22): 3. Nov. 18, 1948. 7 Sa74
- 10991 JAKUBOWSKI, S. Herbalists in Karkonosze. (In Polish.) Med. Wet. 4: 489-491. Aug. 1948. 41.8 M463
- Use of medicinal plants in animal disease therapy in Poland.



- 10992 JONES, E. W. A mouth speculum for large animals. *Vet. Rec.* 60: 518. Oct. 23, 1948. 41.8 V641
- 10993 KELSER, R. A. What the veterinary profession means to mankind. *Pa. U. School Vet. Med. Vet. Ext. Q.* 112: 3-11. Oct. 16, 1948. 41.9 P386
- 10994 KIRKSEY, G. Believe 5-point plan can stamp out aftosa in Mexico by 1951. *Live Stock Prod.* 27(3): 6. Dec. 1948. 280.38 N21
- 10995 KRESS, F. Über die wirkung von ultraschall auf Brucella abortus. *Wiener Tierärztl. Monatsschr.* 34: 636-655. Ref. Nov. 1947. 41 T345
- 10996 LAFORTUNE, J. G. Chronique vétérinaire: la saignée. *Forêt Québécoise* 13: 611-612. Oct. 1948. 99.8 F79
- 10997 LANFRANCHI, A. With regard to the article "Apoplectic aphtha is conquered." (In Italian.) *Prog. Vet.* 3: 161-162. June 1, 1948. 41.8 P942
- Foot and mouth disease with secondary infections.
- 10998 LAZZERINI, O. Aspects and consequences of the present health and sanitation situation [of livestock]. (In Italian.) *Terra [Firenze]* 59(36): 1. Sept. 5, 1948. 16 T274
- 10999 LEGORI, E. Endoseptale and sulfamide therapy. (Some experimental tests.). (In Italian.) *Zootec. e Vet.* 3: 258-260. Apr./May 1948. 41.8 Z7
- "Endoseptale is a p-aminobenzenesulfamidothiazole, in stable solution."
- 11000 LÉPINE, P., and MARCENAC, F. Exaltation de la virulence du virus d'Aujeszky par association avec le virus herpétique. *Inst. Pasteur. Ann.* 75: 192-194. Aug. 1948. 448.3 An75
- 11001 LOCKART, G. F. Vacunación contra la fiebre aftosa a propósito de las "variantes" de virus. *Tambo y Chacra* 20(734): 6. 8. Oct. 21, 1948. 44.8 T15
- 11002 MAGLIANO, A. Veterinary services [Italy]. *Glor. di Agr.* 57: 56. Mar. 9, 1947. 16 R1G
- 11003 MANCINI, A. La fiebre aftosa en Cajamarca. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 2(4): 20-24. Mar. 1948. 49.9 P433
- 11004 MAUZE, J., and PILINE. Les brucelloses humaines et animales en Guadeloupe. *Soc. de Path. Exot. B.* 41: 303-305. 1948. 448.9 So13
- 11005 MAZZA, G. Anti-anthrax vaccine with sapo-nine. (Observations and tests.). (In Italian.) *Zootec. e Vet.* 3: 213-225. Apr./May 1948. 41.8 Z7
- English summary.
- 11006 MIGLIAVACCA, L. Bacteriophage therapy in veterinary obstetrics and gynecology. (In Italian.) *Prog. Vet.* 3: 43-44. Feb. 1, 1948. 41.8 P942
- 11007 MIRRI, A. The germs of secondary infection and sulfamide therapy in apoplectic aphtha. (In Italian.) *Zootec. e Vet.* 3: 416-417. July 1948. 41.8 Z7
- 11008 MÓCSY, J. VON. Neue verwendungsgebiete der kontaktgifte in der veterinärmedizin. *Acta Vet. Hungarica* 1(1): 7-13. 1948. 41.8 Ac82
- Control of external parasites on livestock.
- 11009 MONTEVERDE, J. J. Fenomeno de interferencia. *Buenos Aires. Cent. de Estud. de Med. Vet. Rev.* 17(25): 29-32. Jan./Mar. 1948. 41.9 B86
- Immunity to virus disease.
- 11010 MOSIER, J. E. Antihistamine therapy in veterinary practice. *Jen-Sal J.* 31(5): 4-5. Nov./Dec. 1948. 41.8 J45
- 11011 MOSKEY, H. E. Veterinary medicinal preparations as viewed by the Food and Drug Administration. *Vet. Med.* 43: 508-511. Dec. 1948. 41.8 M69
- 11012 MOSZCZENSKI, Z. On the treatment of the retention of afterbirth. (In Polish.) *Med. Wet.* 4: 485-489. Aug. 1948. 41.8 M463
- French summary.
- 11013 MUKAROVSKY, L. Veterinary education in Russia. (In Czech.) *Časopis Českoslov. Vet.* 3: 572-573. Oct. 10, 1948. 41.8 C27
- 11014 MÜLLER, K. Medicaments and remedies [in veterinary medicine]. I-III. (In Czech.) *Časopis Českoslov. Vet.* 3: 529-533; 563-572; 631-638. Sept. 10, Oct. 10, Nov. 10, 1948. 41.9 C27
- 11015 MURIALDO, A. M. El cultivo de huevos de *Strongilus equinus* tomado como test de los antihelmínticos. *Uruguay. Dir. de Ganad. B. Mens.* 30: 166-169. Apr./June 1948. 41.9 Ur8
- 11016 MURRAY, E. D. G. Reflections on the future of veterinary medicine. *Canad. J. Compar. Med.* 12: 283-285. Oct. 1948. 41.8 C162
- 11017 MUSSILL, J. Uterusrisse und amputation. *Wiener Tierärztl. Monatsschr.* 34: 585-587. Oct. 1947. 41.8 T345
- 11019 NAVARES, P. Las heridas, su tratamiento. *Arg. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino* 8(30): 31-35. Mar. 1948. 42.8 R32
- 11019 NIGERIA. VETERINARY DEPT. Annual report, 1946. Lagos, 1948. 27 p. 41.9 N56
- 11020 NORIEGA, C. R. La fiebre aftosa; éxito alcanzado con la aplicación de la vacuna intradérmica. *Campo y Suelo Argentino* 32(383): 11. Sept. 1948. 9 C15
- 11021 NORTHERN RHODESIA. VETERINARY DEPT. Annual report, 1947. Lusaka, 1948. 19 p. 41.9 N816
- 11022 NOVER, I. Untersuchungen über den vitamin-B<sub>1</sub>-gehalt der retinalen gewebe verschiedener wirbeltiere. *Hoppe-Seylers Z. f. Physiol. Chem.* 282: 159-164. Dec. 1947. 384 Z38
- 11023 NOVOA CAVA, J. Afecciones parasitarias en la campaña de Cajamarca. *Agronomia [Lima]* 12(51): 65-69. June/July 1947. 9.8 Ag83
- 11024 PARNAS, J., and KAWECKI, Z. From the case history of W. Z. H. W. (District Veterinary Institute of Hygiene). (In Polish.) *Med. Wet.* 4: 484-485, 600-603. Aug., Oct. 1948. 41.8 M463
- 11025 PARNAS, J. The Polish-Czechoslovakian veterinary cooperation. (In Czech.) *Časopis Českoslov. Vet.* 3: 619. Nov. 10, 1948. 41.8 C27
- 11026 PATTERSON, J. B. E. Some diseases of sheep and cattle caused by deficiency or excess of minerals, with special reference to diseases occurring in S. W. England. *Bath and West and South. Counties Soc. Pam.* 15, 37 p. Aug. 1948. 10 B32P
- 11027 POKORNY, V. Veterinary conditions in Rumania and Hungary. (In Czech.) *Časopis Českoslov. Vet.* 3: 543-544. Sept. 25, 1948. 41.8 C27
- 11028 POULIN, L. P. Une vente à l'Ecole Provinciale de Médecine-Vétérinaire. *Terre de Chez Nous* 21(2): 7, 21. Oct. 6, 1948. 7 T27
- 11029 POULSEN, N. P. Brucellosis control and legislation. (In Danish.) *Dansk Landbr.* 67: 408-409. (To be cont.) Oct. 28, 1948. 280.28 V91
- 11030 PRESTON, H. Enfermedades producidas por las bacterias anaerobias. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 1(3): 31-39, 72-75. Dec. 1947. 49.9 P433
- 11031 PUNTRIANO, G. Realidad sanitaria de los deptos. de Piura y Tumbes. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 1(3): 18-21. Dec. 1947. 49.9 P433
- Control of livestock diseases.
- 11032 QUINN, J. I. The use of the cotton thread technique in the study of cellulose digestion of ruminants. *So. African Sci.* 2: 63-64. Oct. 1948. 475 So8
- 11033 RATH, E. Enfermedades de los auquénidos. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 2(4): 51-53. Mar. 1948. 49.9 P433
- Alpacas and llamas.
- 11034 ROMAGNOLI, A. Cellular inclusions in ultravirus diseases of domestic animals. (In Italian.) *Nuova Vet.* 24: 88-94. (Concl.) Mar. 15, 1948. 41.8 N922
- 11035 ROYAL COLLEGE OF VETERINARY SURGEONS, LONDON. The register of veterinary surgeons, 1948. London, 1948. 433 p. 41.9 L84
- 11036 SAINT-MARTIN, A. Embryotomes et embryotomies. *Rev. de Méd. Vét. [Toulouse]* 99: 375-382. Aug./Sept. 1948. 41.8 R32
- 11037 SCHÄPER, W. Die bedeutung der erb- und konstitutionsforschung für tierzucht und tiermedizin. *Deut. Landw.* 2: 82-85. June 1948. 18 D485
- 11038 SCHMIDT, H. W. Untersuchungen über knorpelgerüst und schleimhaut-relief des kehlkopfes der säuger. *Tierärztl. Umschau* 2: 21-24. Feb. 1947. 41.8 T445
- 11039 SCHNEIDER, L. Additional data to the etiology of pasteurellosis with special reference to different species of hosts. *Acta Vet. Hungarica* 1(1): 31-42. 1948. 41.8 Ac82
- 11040 SCHREIBER, J. Beiträge zur vergleichenden anatomie und zur mechanik des kniegelenkes. *Wiener Tierärztl. Monatsschr.* 34: 725-744. Ref. Dec. 1947. 41 T345
- 11041 SEBASTIANI, B. On some interesting points in the description of a case of uterine torsion. (In Italian.) *Prog. Vet.* 3: 139. May 1, 1948. 41.8 P942



- 11042 SEGURINI, M., and MONTI, A. Vitamin shock in veterinary therapy (preliminary note). (In Italian.) *Nuova Vet.* 24: 219-223. July 1948. 41.8 N922
- 11043 SIMONPIETRI, R. H. Castración en equinos, bovinos, ovinos y cerdos. *Chacra* 18(216): 16-17. Oct. 1948. 9 C34
- 11044 SINESHCHEKOV, A. L. Regulation of digestive and metabolic functions of the stomach-intestinal tract. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Dok.* 7: 145-149. 1948. 20 M857 In livestock.
- 11045 SJÖBERG, K. Blood- and organic analysis as aid in diagnosis of deficiency diseases in livestock. (In Swedish.) *Växt-Närings-Nytt* 4(1): 6-8. 1948. 57.8 V47
- 11046 SMITH, K. Enfermedades del virus. *Rev. Ganad. [Habana]* 8(11): 26. Nov. 1948. 49 R321
- 11047 SPISNI, D., and MAINARDI, B. Action of histidine on glycemia. (In Italian.) *Zootec. e Vet.* 3: 203-205. Apr./May 1948. 41.8 Z7
- 11048 STANDFUSS, R. Forschreitendes tuberkulose-tilgungs-verfahren. *Tierärztl. Umschau* 2: 28-31. Feb. 1947. 41.8 T445
- 11049 STELLA, J. J. Los errores de diagnostico. *Rev. de Med. Vet. [Buenos Aires]* 30: 24-31. Jan./Mar. 1948. 41.8 B86
- 11050 STEWART, M. H. New! "Elastration"; it's a safe, easy way to dock or castrate lambs or calves. *Farm J.* 72(12): 22. Dec. 1948. 6 F2212
- 11051 STUCKI, J. Contribution à l'étude de la virulence du virus aphteux. *Ann. de Méd. Vét.* 92: 215-250. (Concl.) Ref. Sept./Oct. 1948. 41.8 An78
- 11052 SVENKERUD, R. R. The meaning of constitution and matters that affect the constitution of our livestock. (In Norwegian.) *Norsk Landbr.* 14: 414-416. Nov. 12, 1948. 11 N8122
- 11053 SWAN, L. C. Benadryl in veterinary practice. *Canad. J. Compar. Med.* 12: 260-264. Oct. 1948. 41.8 C162
- 11054 SZABUNIEWICZ, M., and ZIELINSKI, A. A contributory note on the intravenous and intraarterial administration of medicines. (In Polish.) *Med. Wet.* 4: 545-551. Ref. Sept. 1948. 41.8 M463 English summary.
- 11055 TALLARICÓ, G. The serum of fecundity. (In Italian.) *Allevamenti nel Mondo* 28: 131-132. May/June 1948. 49 AL56
- 11056 TERPSTRA, J. I. Observations on disease material examined [in the laboratory of the Government Serum Institute] during the year 1947. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 768-776. Oct. 15, 1948. 41.8 T431
- 11057 TORRENT MOLLEVÍ, M. Terapéutica com-parada. *Lérida Ganad.* 3: 119-120. June 1948. 41.8 L56
- 11058 TRAUB, V. E., and SCHNEIDER, B. Züchtung des virus der maul- und klauenseuche im bebrüteten hühnerrei. *Z. f. Naturf.* 3b: 178-187. May/June 1948. 474 Z3
- 11059 TRAWINSKI, A. State Institute for the Production of Anti-Foot and Mouth Disease Vaccine in Basle. (In Polish.) *Med. Wet.* 4: 595-597. Oct. 1948. 41.8 M463
- 11060 ÜBERREITER, O. Frakturen des hirn-schädels. *Wiener Tierärztl. Monatsschr.* 34: 747-763. Ref. Dec. 1947. 41 T345
- 11061 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. The foot-and-mouth disease situation, by E. T. Simms, M. R. Clarkson, M. S. Shahan, and others. Washington, 1948. 7 p. 1.914 R2R11
- 11062 VELAZCO, A. Sanidad animal del departamento del Cuzco. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 1(3): 22-23. Dec. 1947. 49.9 P433
- 11063 VERLINDE, J. D. The antibacterial effect of chemotherapy, antibiotics in particular. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 169-174. Ref. Mar. 15, 1948. 41.8 T431 English summary.
- 11064 WALDMANN, O. Sobre investigación aftosa. *Gac. Vet.* 10: 147-155. July/Aug. 1948. 41.8 G112
- 11065 WEDEMANN, W. Veterinäre grossdesinfektion von heute. *Berlin u. München. Tierärztl. Wochenschr.* 1947: 131-134. Nov. 1947. 41.8 B45
- 11066 WEHNER, T. Gibt es serogenetische erkrankungen des nervensystem beim tier? *Tierärztl. Umschau* 2: 290-291. Dec. 1947. 41.8 T445
- 11067 WESTERMARCK, H. On the use of carbon tetrachloride and carbon disulfide against intestinal worms and on poisoning as a result of the use. (In Finnish.) *Finsk Vet. Tidskr.* 54: 329-333. Sept. 1948. 41.8 F49 Swedish summary.
- 11068 WESTHUES, M. Beitrag zur narkose. *Tierärztl. Umschau* 2: 277-281. Dec. 1947. 41.8 T445 In veterinary surgery.
- 11069 WETZEL, A., and WETZEL, H. Zeitgemasse sterilisation und aufbewahrung sterilisierter instrumente. *Tierärztl. Umschau* 2: 12-14; 35-37; 57-60. Jan.-Mar. 1947. 41.8 T445
- 11070 WILCZYNSKI, M. Parasitic conjunctivitis in cattle. (In Polish.) *Med. Wet.* 4: 608-609. Oct. 1948. 41.8 M463 English summary.
- 11071 WILHELM, J. Erfahrungen mit der kastration von haustieren. *Tierärztl. Umschau* 2: 257-259. Nov. 1947. 41.8 T445
- 11072 WILKINSON, E. An easily sterilisable Neil-sen's catheter. *Vet. Rec.* 60: 568. Nov. 6, 1948. 41.8 V641
- 11073 WIMMER, F. X. Der tierschutz in österreich und der tierarzt. *Wiener Tierärztl. Monatsschr.* 34: 764-767. Dec. 1947. 41 T345
- 11074 WISCHHUSEN, J. F. Good-bye Bang's disease? *N. J. Farm & Gard.* 19(12): 14, 30, 31. Dec. 1948. 6 G162 Feeding trace elements.
- 11075 ZAKI, O. A. Recent developments in immunity, more particularly from the standpoint of veterinary medicine, and with especial reference to Egyptian conditions. *Vet. J.* 104: 359-383. (To be cont.) Nov. 1948. 41.8 V643
- 11076 ZAVAGLI, V. The fight against foot and mouth disease. Panorama of two continents. (In Italian.) *Zooprofilassi* 3: 85-93. Apr. 1948. 41.8 Z72
- 11077 ZAVATTARI, E. The biological cycle of *Fasciola hepatica*. (In Italian.) *Italia Agr.* 85: 499-502. Sept. 1948. 16 It1

## MISCELLANEOUS

- 11078 BAKER, M. L. Livestock industry. *Nebr. State Irrig. Assoc. Proc.* 55: 124-127. 1947. 55.9 N27P
- 11079 COOK, W. South American livestock shows differ—Kildee. *Iowa Agriculturist* 47(4): 7. Nov. 1948. 6 Io9
- 11080 CUNNINGHAM, G. Huge farm research project grows on Iowa war plant site. *Iowa Farm & Home Register* 1948: 3-H. Nov. 7, 1948. 6 Io94 Livestock and poultry research.
- 11081 CZAJA, M. The organisation of the Zootechnical Experiment Station in Grodziec. (In Polish.) *Przegl. Hodowlany* 16: 105-117. June 1948. 49 P952 English summary. Livestock research in Poland.
- 11082 DAULATRAM, S. J. Improving India's cattle. *Indian Farming* 9: 173-175. May 1948. 22 In283
- 11083 DÍAZ G. HERRERA, A. Un aspecto de la ganadería provincial. *Lérida Ganad.* 85: 79-80. Apr. 1948. 41.8 L56 Spain.
- 11084 DIFLOTH, P. Comment la Norvège a redressé son élevage. *Rustica* 21: 134. Mar. 14, 1948. 14 R92
- 11085 DUNK, M. R. FFA Foundation, Inc. provides awards for national judging contests. *Better Farming Methods* 20(12): 20, 29. Dec. 1948. 58.8 B46 Livestock.
- 11086 GADOLA, A. Somalian livestock industry and the action taken by the Italians to protect and improve it. (In Italian.) *Allevamenti nel Mondo* 28: 116-118. May/June 1948. 49 AL56
- 11087 HOBBS, C. S. Procedures and designs in animal husbandry experiments. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 101-102. 1948. 4 C82
- 11088 KLIESCH. Wichtige fragen der tierzucht-forschung. *Deut. Landw. Gesell. Arb. (n. s.)* 1: 106-119. 1947. 18 D48



11089 KOGAN, A. Problems in the improvement of collective farm animal husbandry. (In Russian.) *Sotsialist. Sel'sk. Khoz.* 19(5): 11-20. May 1948. 281.8 So73

11090 KOSTROV, N. I. Problems of the animal industry in Moscow Region. (In Russian.) *Moskov. Or-dena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 7: 243-245. 1948. 20 M857

11091 LAMOND, H. G. Handling stock as individuals. *Past. Rev.* 58: 739-740, 947-948. Aug. 16-Oct. 16, 1948. 23 Au75

11092 MARSH, T. D., and DAWSON, V. Animal husbandry in Malaya. *Malayan Agr. J.* 31: 157-179. (Cont.) July 1948. 22.5 F312

11093 MESSIERI, A. The guarantee in contracting for breeding animals on the basis of current Italian legislation. (In Italian.) *Nuova Vet.* 24: 236-237. July 1948. 41.8 N922

11094 NIELEBOCK, E. W. Der kombinierte klein-tierzuchtbetrieb. *Kleintier-Zücht. Tierbörse* 2(45): 9. Oct. 10, 1948. 49 K672

11095 NOVOTNY, E. The examination of animals before insuring. (In Czech.) *Casopis Českoslov. Vet.* 3: 604-605. Oct. 25, 1948. 41.8 C27

11096 POMAR, L. M. El Instituto Provincial de Biología Animal. *Balearic Isl. Diputación Prov. B. de Agr.* 45: 10-11. June 1948. 15 B19

11097 SANDERS, D. A. Lessening livestock injuries. *Fla. Grower* 56(11): 26. Nov. 1948. 80 F6622

11098 SCOTTON, M. The efficiency of the living machine. (In Italian.) *Macch. e Motori Agr.* 6: 291-301. July 1948. 58.8 M13

Analysis of the power production of draft animals.

11099 WEISS, G. Vom wildling zum haustier. *Natur u. Tech.* 2: 132-133. Aug. 1, 1948. 474 N215

## CATTLE

### Breeds and Breeding

11100 AEGERTER, E. Good results obtained in foreign countries with the spotted Simmental breed of cattle. (In Italian.) *Riv. di Zootec.* 21: 241-246. July 1948. 49 R52

11101 ALBAUGH, R. Breeding yearling heifers. *Calif. Agr. [Calif. Sta.]* 2(11): 5-6. Nov. 1948. 100 C12Cag

11102 ALMQUIST, J. O. Penicillin and streptomycin aid artificial breeding [of dairy cattle]. *Sci. Farmer [Pa. Sta.]* 1948: 8-9. Oct. 1948. 100 P383

11103 ANDERSEN, T. V. Improvement of British cattle. VI. Danish methods of cattle improvement. *Farming [Norwich]* 2: 331-334. Nov. 1948. 10 F2236

11104 ANGELL, G. N. Artificial insemination boosts dairy quality. *Oreg. Farmer* 71: 873. Dec. 2, 1948. 6 Or32

11105 BABBITT, D. Efficient production through artificial insemination: better producing cows. *Northeast. Dairy Conf. Ann. Rpt.* 13: 144-148. 1948. 44.9 N818

11106 BANE, A. Artificial insemination in Stockholm province. II. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A. Östra Mellansverige och Gästrikland* 18 (41): 8. Oct. 9, 1948. 11 J762

11107 BAYERS, A. C. Elija el padre para su plantel de acuerdo con el tipo ideal que Vd. se ha formado. *Hereford* 15: 519-520. Oct. 1948. 43.8 H42

11108 BELIAKOV, N., and ZORIN, A. Plemennaia rabota na kolkhoznof molochnof ferme [Breeding work on a dairy farm of a kolkhoz]. *Moskva, Moskovskii' Rabochif.* 1948. 79 p. 43 B414

11109 BENNETT, J. A. Merits of the Shorthorn [cattle]. *Utah Farmer* 68(6): 14. Oct. 25, 1948. 6 D45

11110 BENZONI, C. Contribution to the study of the bovine race-population "modicano x sarda." Biometrical inquiry into the variability of the principal somatic measurements of adult male castrated oxen (Recapitulatory note 1). (In Italian.) *Zootec. e Vet.* 3: 425-436. July 1948. 41.8 Z7

English summary.

11111 BERGE, S. Inheritance of dun colour in West Coast cattle in Norway. (In Norwegian.) *Norges Landbrukshøgsk. Meld.* 40, 36 p. 1948. 44.9 N75

English summary.

11112 BERTHELON, M. L'insémination artificielle des vaches en France. *Rev. de Méd. Vét. [Toulouse]* 99: 400-407. Aug./Sept. 1948. 41.8 R32

11113 BIELANSKI, W. Studies on the artificial insemination of cattle in the Scandinavian countries—Norway. (In Polish.) *Przegl. Hodowlany* 16: 241-247. Aug. 1948. 49 P952

English summary.

11114 BONADONNA, T. Critical considerations on the technique for the inoculation of spermiatic material in the bovine. (In Italian.) *Zootec. e Vet.* 3: 293-301. Apr./May 1948. 41.8 Z7

11115 BRASIL, J. F. DE A. Decalog of Devon cattle. (In Portuguese.) *Lav. Arroz.* 2(18): 33. June 1948. 59.8 L39

11116 BRETSCHNEIDER, L. H. Electron-microscopic analysis of bull semen. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 233-253. Ref. Apr. 1, 1948. 41.8 T431

English summary.

11117 BROWNELL, S. J. Efficient production through artificial insemination: meeting the bull problem. *Northeast. Dairy Conf. Ann. Rpt.* 13: 151-156. 1948. 44.9 N818

11118 BRUSKELAND, O. G. The Lyngdal cattle. (In Norwegian.) *Norsk Landbr.* 14: 435-438. Nov. 26, 1948. 11 N8122

11119 CANADIAN ABERDEEN ANGUS BREEDERS ASSOCIATION. The Canadian Aberdeen Angus herd book. v. 12, pt. 3. p. 681-1020. Owen Sound, 1948. 43.9 C165

11120 CANO, A. E. Elección de ganado lechero. *Campo y Suelo Argentino* 32(383): 44, 46-51. Sept. 1948. 9 C15

11121 CANO, E. A. Artificial insemination and dairy cooperation. (In Portuguese.) *Granja* 3(34): 22-24. July 1948. 9.2 G76

11122 CARLSSON, C. E. Iakttagelser av utfodringens inverkan på nötkreaturens fruktsamhet [Observations on the effect of feeding on fertility of cattle]. Karlstad, Nya Vermland-Tidningens Boktryckeri, 1948. 46 p. 389.7 C192

11123 CHIEFFI, A., VEIGA, J. S., and PAIVA, O. M. Contribution to the study of the birth weight of calves of the Nellore race. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 3: 247-249. June 1948. 41.8 Sa6

English summary.

11124 DEAN, D. Handle with care! Valuable—responsive. *Jersey B.* 67: 1939, 2045-2048. Nov. 25, 1948. 43.8 J48

Breeding bulls.

11125 DRAKE, M. High production ready made. *Kraftsman, Prod. Ed.* 6(5): 17. Sept./Oct. 1948. 44.8 K85

Artificial breeding.

11126 ENGELER, W. Brown Swiss cattle in Switzerland and other countries. (In Italian.) *Risveglio Agr.* 7: 267-271. Aug. 15/31, 1948. 16 R49

11127 EZCURRA, J. C. El ganado Schwys, un buen tipo de vaca montañesa. *Rev. Mens. B.A.P.* 31(369): 12-13. Aug. 1948. 9 R326

11128 FAUSTER. Die entwicklung der fleckvieh-zucht in Unterkärnten. *Kärntner Bauer* 98: 213-214. July 1, 1948. 19 K14

11129 GALLINA, L. Dairy cattle breeds. (In Italian.) *Allevamenti nel Mondo* 28: 123. May/June 1948. 49 AL56

11130 GALLINA, L. Free, natural or physiological impregnation, impregnation in the stall, and paraphysiological or artificial impregnation in cattle. (In Italian.) *Zootec. e Vet.* 3: 463-466. July 1948. 41.8 Z7

11131 GORDON, G. E. Your herd sire—expense or investment? *Jersey B.* 67: 1932-1933, 2041-2045. Nov. 25, 1948. 43.8 J48

11132 GREAT BRITAIN. MILK MARKETING BOARD. Artificial insemination report to the Board for the year 1st April, 1947-31st March, 1948. Thames Ditton, England, 1948. 24 p. 43.9 G7922

11133 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Infertility in cattle. *Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet* 8, 3 p. June 1948. 41.9 G792A

11134 GREENROYD, J. Friesians. *Estate Mag.* 48: 383-385. Nov. 1948. 10 Es8

Friesian dairy cattle.



- 11135 GIULIANI, R. Means for preventing and combating sterility in cattle. (In Italian.) Riv. di Zootec. 21: 229-233. (To be cont.) July 1948. 49 R52
- 11136 HAGEDOORN, A. L. Breeding from related animals. Farming [Norwich] 2: 266-267. Sept. 1948. 10 F2236  
Improvement of British cattle.
- 11137 HALLGREN, H. A return to old methods of breeding. (In Swedish.) Lantmannen 32: 133-134. Feb. 21, 1948. 11 L234  
Dairy cattle.
- 11138 HELMAN, M. B. El Cebu en la Argentina. Rev. Ganad. [Habana] 8(9): 24-25. Sept. 1948. 49 R321
- 11139 HERWIG, W. Let's look at the records! United Farmers New England. News 8(5): 10-11. Nov. 1948. 6 Un35  
Pedigreed bulls.
- 11140 HIRSCH, D. E. Ten years of test tube calves. News Farmer Coop. 15(8): 5-6. Nov. 1948. 166.2 N47  
Cooperative Artificial Breeding Association No. 1, Inc., Clinton, N. J.
- 11141 HOEKZEMA, J. P. Thousands of Indiana dairymen breeding cows artificially. Ind. Farmers Guide 104(21): 6. Nov. 1, 1948. 6 In2
- 11142 HOFFMANN, P. Zukunftsaufgaben in der zucht des Graubraunen Höhenviehs. Tierärztl. Umschau 2: 206-208. Sept. 1947. 41.8 T445
- 11143 HOLM, J. G. Training and placement of technicians in artificial insemination. (In Swedish.) Ladugården 1948: 191. Sept. 1948. 44.8 L12
- 11144 HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA. Holstein-Friesian herd-book, containing a record of all Holstein-Friesian cattle approved and admitted for entry since the close of the last volume. v. 102, 1946. Brattleboro, 1948. 1523 p. 43.9 H74
- 11145 HUTCHINSON, J. The Kingswood Friesians: a monument in black-and-white. Farmers Weekly [London] 29(21): 40-41, 43. Nov. 19, 1948. 10 F2226
- 11146 HUTCHINSON, J. Three years of A. I. Farmers Weekly [London] 29(18): 45, 47. Oct. 29, 1948. 10 F2226  
Artificial insemination of dairy cattle.
- 11147 IYENGAR, B. N. Improvement of dairy stock in Bangalore. Bangalore Dairy Cattle Soc. Monthly B. 7: 52, 54. June 1948. 43.9 B22
- 11148 JAŚKOWSKI, L. Artificial insemination and the sterility in cattle. (In Polish.) Przegl. Hodowlany 16: 248-253. Aug. 1948.
- 11149 KILMER, W. S. The true significance of family names in Shorthorn breeding. O. A. C. Rev. 61(1): 50, 52. Oct. 1948. 276.8 On8
- 11150 KNEALE, J. L. Breeds and breeding. Manx J. Agr. (n. s.) 3(2): 44-46. Oct. 1948. 10 M312  
Dairy cattle.
- 11151 KNIGHT, D. F. What does "excellent" mean for your sire? Jersey B. 67: 1936-1938, 2048-2049. Nov. 25, 1948. 43.8 J48
- 11152 KOCKMAN, N. Inbred lines and their importance in the breeding work of the insemination associations. (In Swedish.) Ladugården 1948: 148-150. Aug. 1948. 44.8 L12
- 11153 KORKMAN, N. Twin births in cattle. (In Swedish.) Försök och Forskning 5: 27. Apr. 1948. 11 F77
- 11154 KORKMAN, N. Uniformity in progeny testing. (In Swedish.) Ladugården 1948: 194. Sept. 1948. 44.8 L12  
For bulls.
- 11155 KORPRICH, H. Die trächtigkeitsdauer des Allgäuer Graubraunen Höhenviehs. Tierärztl. Umschau 2: 33-35. Feb. 1947. 41.8 T445
- 11156 KWASIEBORSKI, M. My impressions from a visit to Holland. (In Polish.) Przegl. Hodowlany 16: 117-129. June 1948. 49 P952  
English summary.  
Cattle breeding.
- 11157 LAPLAUD, ORTAVANT, R., and THIBAUT, C. L'électroéjaculation chez le taureau peut-elle devenir une méthode courante de collecte du sperme? Acad. d'Agr. de France. Compt. Rend. 34: 731-733. June 16/23, 1948. 14 P215Bc
- 11158 LEE, J. G. Best blood lines of dairy world now in reach of all. La. Stockman Farmer 1: 6, 15. Oct. 1948. 6 L933  
Artificial insemination.
- 11159 LONG, J. F., GERLAUGH, P., and RIFE, D. C. A genetic study of gestation in cattle. (Abs.) Genet. Soc. Amer. Rec. 17: 46-47. 1948. 442.9 G28
- 11160 MARION, A. W. Origin, development, characteristics and popularity of the Milking Shorthorn breed. Milking Shorthorn J. 29(11): 3-4. Nov. 1948. 43.8 M59
- 11161 MAYER-PULLMANN, R. Kann man die künstliche besamung beim rind vereinfachen? Tierärztl. Umschau 2: 11-12. Jan. 1947. 41.8 T445
- 11162 ODLUM, G. M. Breeding pedigree cattle. Farming [Norwich] 9: 308-310. Oct. 1948. 10 F2236
- 11163 OLMSTEAD, R. Efficient production through artificial insemination: improving seasonal production. Northeast. Dairy Conf. Ann. Rpt. 13: 133-137. 1948. 44.9 N818
- 11164 OLSSON, B. From an American insemination station. (In Swedish.) Ladugården 1948: 152-153. Aug. 1948. 44.8 L12  
Badger [Cattle] Breeders' Cooperative in Wisconsin.
- 11165 PARUSZEWSKI, S. Cattle breeding in the Region of Gdansk. (In Polish.) Przegl. Hodowlany 16: 135-140. June 1948. 49 P952  
English summary.
- 11166 PINO, N., and IOPPOLO, E. Biometrical-statistical research on fourteen zoometric indices in cross-bred cows (Brown Swiss x Modicana (Sicilian)). (In Italian.) Zootec. e Vet. 3: 244-257. Apr./May 1948. 41.8 Z7
- 11167 PLANK, G. M. V. D. Selection of breeder dairy cattle in U. S. A. and in our country. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 185-192. Mar. 15, 1948. 41.8 T431  
English summary.
- 11168 RABEK, A. Organisation of cattle breeding in the Region of Great Pomorze. (In Polish.) Przegl. Hodowlany 16: 129-134. June 1948. 49 P952  
English summary.
- 11169 RED POLL CATTLE SOCIETY OF GREAT BRITAIN AND IRELAND, INC. The Red Poll herd book of cattle descended from the Norfolk and Suffolk Red Poll. v. 64. Ipswich, 1948. 622 p. 43.9 R24H
- 11170 REED, O. E. Breeding experiments with dairy cattle. Farmers Fed. News 29(3): 18-19, 24-26. Nov. 1948. 280.28 F225  
Also in Dairymen's League News 32(24): 13, 16. Nov. 30, 1948. 44.8 D1432
- 11171 REED, O. E. The dairy cattle cross breeding experiment. Breeder's Gaz. 113(12): 6, 18-19. Dec. 1948. 49 B74
- 11172 REMPT, D., and ZWANENBURG, S. Pseudomonas aeruginosa (Ps. pyocyanea, Bac. pyocyaneus) in the semen of three breeding bulls. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 224-230. Apr. 1, 1948. 41.8 T431  
English summary.  
Dairy cattle.
- 11173 REYES, F. F. The growth and development of Philippine and Murrah carabaos and their crossbreed. Philippine Agr. 31: 271-278. Apr./June 1948. 25 P542
- 11174 ROCHA, U. F. Fecundity control in 154 Zebu cows with brucellosis; comparison between natural way and artificial insemination. (In Portuguese.) São Paulo U. Facul. de Med. Vet. Rev. 3: 327-330. June 1948. 41.8 Sa6  
English summary.
- 11175 ROMIJN, C. Physiological semen analysis. 2. The pH of semen of the bull as an aid to determining quality. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 136-148. Mar. 1, 1948. 41.8 T431  
English summary.
- 11176 RYDE, H. Bull cooperatives in the lands of Nordic neighbors. (In Swedish.) Ladugården 1948: 146-148. Aug. 1948. 44.8 L12
- 11177 SCHAPER, A. Sélection des taureaux au microscope électronique. Nature [Paris] 3162: 310-311. Oct. 1948. 472 N21
- 11178 SCHMIDHAMMER, G. Unser zuchtziel in der blondviehzucht. Kärntner Bauer 98: 248-250. Aug. 1, 1948. 19 K14
- 11179 SCHMOKER, E. A. Infertility in bulls. 3. Calif. Dairymen 28(20): 26-27. Nov. 6, 1948. 44.8 C12



11180 SHULTZ, E. N. A look at the breed. *Guernsey Breeders' J.* 74: 1185-1186, 1219. Dec. 1, 1948. 43.8 G93

11181 SOKOLWSKYJ, W. Die künstliche besamung des rindes in der landpraxis. *Tierärztl. Umschau* 2: 226-239. Ref. Oct. 1947. 41.8 T445

11182 STRINGHAM, E. W. A blue print for cattle breeders. *Weekly Mkt. News & Mod. Farmer* 26(45): 7. (Cont.) Nov. 4, 1948. 286.81 G762A

11183 SVENDSEN, M. P. Cattle breeding in the age of artificial insemination. (In Danish.) *Dansk Landbr.* 67: 375-376. Oct. 7, 1948. 280.28 V91

11184 TAGLE, E. C. El curso de inseminación artificial. *Esnea* 35(1500): 3, 5. (Cont.) Oct. 2, 1948. 44.8 Es5

11185 THOMAS, E., JR. Families that breed superior sires. *Jersey B.* 67: 1940-1941. Nov. 25, 1948. 43.8 J48

11186 U. S. BUR. OF DAIRY INDUSTRY. An index for using the micro-film strip on Jersey-cattle families. *U. S. Bur. Dairy Indus. BDIM-889-A*, rev., 9 p. 1948. 1.973 D4B34

11187 U. S. BUR. OF DAIRY INDUSTRY. Summary of the progress of the dairy cattle breeding experiments at the Agricultural Research Center, Beltsville, Md. *U. S. Bur. Dairy Indus. BDIM-Inf-8*, rev., 10 p. Sept. 10, 1948. 1.973 D4B34

11188 VALERANI, L., and GHIDA, F. Some statistical observations on the milk production of a Bergamini cow, from 1928 to 1943. (In Italian.) *Zootec. e Vet.* 3: 206-212. Apr./May 1948. 41.8 Z7

11189 WITTER, J. W. Efficient production through artificial insemination: sterility and disease. *Northeast. Dairy Conf. Ann. Rpt.* 13: 137-143. 1948. 44.9 N818

11190 YCIZ, A. O. Esterilidad en los sementales. *Res* 16: 22982. Nov. 5, 1948. 286.85 R31

11191 ZETROUER, J. Florida to be source for feeders; possibilities good for feeder industry within the State too. *Fla. Cattleman* 13: 31-32. Oct. 1948. 43.8 F66

Chiefly on cattle breeding.

#### Feeds and Feeding

11192 ARNDT, C. H., and ANDERSON, G. W. Effect of feeding derivatives of 2, 4, 5-trichlorophenol to steers. *Down to Earth* 4(3): 16. Winter 1948. 381 D75

11193 AXELSSON, J. Dietary effect of mineral phosphates in diet of dairy cows. (In Swedish.) *Lantmannen* 32: 691-692. Oct. 16, 1948. 11 L234

11194 BAILEY, J. W. More water—more milk. *Successful Farming* 46(12): 83. Dec. 1948. 6 S12

11195 BAKER, T. A. Grain feeding of cows on pasture. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 106. 1948. 4 C82

11196 BARLOW, F. D., JR., and MCGOUGH, M. L. Dairy feeding practices in the north Louisiana upland cotton area. *La. Rur. Econ.* 10(4): 4-5. Nov. 1948. 281.8 L93

11197 BERESFORD, R. Corncocks to fatten beef. *Country Gent.* 118(12): 34, 68-69. Dec. 1948. 6 C833

11198 BIFFIN, W. Milk yield depends on the ration now. *Smallholder* 80(2013): 20. Oct. 29, 1948. 10 Sml

11199 BOHSTEDT, G. How best utilize feeds this winter. *Hoard's Dairyman* 93: 895. Dec. 10, 1948. 44.8 H65

11200 BOWSTEAD, J. E., and FREDEEN, H. T. Urea for dairy cows. *Flour & Feed* 49(5): 25. Oct. 1948. 298.8 F66

11201 CAVE, R. A. Pastures for dairy cows. *Dakota Farmer* 68(22): 18, 19. Nov. 20, 1948. 6 D14

11202 CORTEZ G., J. A. Alimentación racional de vacas lecheras. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 1(3): 62-66. Dec. 1947. 49.9 P433

11203 DAVIS, R. N., and KEMMERER, A. R. Lactating factors for dairy cows in dried grapefruit peel. *J. Dairy Sci.* 31: 973-975. Nov. 1948. 44.8 J822

11204 ELLISON, W. The animal is the best judge. *Farmers Weekly [London]* 29(17): 44. Oct. 22, 1948. 10 F2226

Selection of vegetation when grazing.

11205 ERIKSSON, E. Planning winter feeding of dairy cows. (In Swedish.) *Lantbrukstidskr. för Dalarna* 1948: 182-184. Oct. 1948. 11 L29

11206 FITE, W. J. Green pastures; the use of more and better pastures, carefully planned, planted and managed, can mean a more efficient and profitable livestock industry. *West. Livestock J.* 27: 41, 105-107. Nov. 15, 1948. 6 F2278

11207 FOSTER, J. E., and others. A summary of beef cattle studies on forest range in the coastal plain of North Carolina. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 108. 1948. 4 C82  
H. H. Biswell, W. O. Shepherd, and E. U. Dillard, joint authors.

11208 FRENS, A. M. The determination of quality of mineral-acid silage in connection with the effect of the feed on the animal organism. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 218-223. Ref. Apr. 1, 1948. 41.8 T431

11209 GARDNER, K. E. Soybean meal as a protein source in dairy calf starters. *Ill. Agr. Col. Ext.* AG1348, p. 25-27. Dec. 30, 1947. 275.29 IL62Pag

11210 GARRAD, G. H. Cow feeding this winter. *Kent Farmers' J.* 64: 56. Oct. 1948. 10 K41

11211 GERLAUGH, P., and ROGERS, H. W. Corncocks make good beef. *Farm and Home Res. [Ohio Sta.]* 33: 148-151. Sept./Oct. 1948. 100 Oh3S

11212 HENRIKSSON, A. The transition from summer to winter feeding in our cattle barns. (In Swedish.) *Ladugården* 1948: 180. Sept. 1948. 44.8 L12

11213 HOFUND, S. The deficiency disease problem in a new light. (In Swedish.) *Ladugården* 1948: 139-145. Aug. 1948. 44.8 L12  
Cattle.

11214 HOLLARD, M. G. Dairy farming in New Zealand. VIII. The principles of nutrition applied to the feeding of dairy cattle. *Lincoln Col. Rur. Ed. B.* 3(8): 10-14. Sept. 1948. 109 L63R

11215 HOLLARD, M. G. Dairy farming in New Zealand. IX. Feeding of dairy stock, (i) Pasture. *Lincoln Col. Rural Ed. B.* 3(9): 2-7. Oct. 1948. 109 L63R

11216 HUNNICUTT, W. D. The "new look" in milk production. *Sealtest Dairyman* 2(4): 2-3. Sept./Oct. 1948. 44.8 Scl

Pasturing cattle.

11217 JARL, F. Cattle feeding during the fall and the winter. (In Swedish.) *Lantmannen* 32: 675-676. Oct. 9, 1948. 11 L234

11218 KEMMERER, A. R., HARLAND, F. G., and DAVIS, R. N. Dried citrus by-products as feeds in the rations of dairy cows and calves. *Ariz. Agr. Expt. Sta. B.* 218, 7 p. Sept. 1948. 100 Ar4

11219 KENDALL, K. A., NEVENS, W. B., and OVERMAN, O. R. The lactation response as limited by feeds produced under two systems of soil fertilization. *J. Nutr.* 36(5): 625-637. Ref. Nov. 10, 1948. 389.8 J82  
In dairy cattle.

11220 KINCAID, C. M. The effect of age, winter gain and grazing rate on net returns from pasture grazed by steers. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 108-109. 1948. 4 C82

11221 KIRK, W. G., and others. Staff at ONA find citrus feeds are valuable but recommend their use with grain and protein supplement. *Fla. Cattleman* 13: 11, 14, 15, 16. Oct. 1948. 43.8 F66

E. R. Felton, H. J. Fulford, D. W. Jones, joint authors.

Experiments in feeding steers.

11222 KORKMAN, N. Should milk for calves be mixed with water? (In Swedish.) *Försök och Forskning* 4: 37-38. Mar. 1947. 11 F77

11223 MAGRUDER, J. W. Pasture needs of dairy cows. *Md. Farmer* 32(10): 3, 14. Oct. 1948. 6 M362

11224 MASSEY, Z. A., and FISHER, S. W. Supplementary protein and mineral feeding to beef cattle on summer pasture. *Ga. Agr. Expt. Sta. C.* 157, 7 p. Sept. 1948. 100 G29S

11225 MICHAELIDES, R. The feeding of dairy cattle. *Countryman[Nicosia]* 1947: 3-5. Jan. 1947. 22.5 C83

11226 MIGONE R., F. El calcio en la alimentación del ganado. *Peru. Dir. de Ganad. e Indus. Pecuarias* 1(3): 49-53; 2(4): 54-63. Dec. 1947-Mar. 1948. 49.9 P433  
Cattle.

11227 MOORE, H. I. Grass is cheapest and best food for cows; action now will fill the pail in hungry months. *Dairy Farmer [Ipswich]* 21 (9): 13. Sept. 1948. 44.8 D1414



- 11228 MUIR, J. Winter rations for beef cattle. Wash. Farmer 73: 832. Nov. 18, 1948. 6 R151  
Also in Oreg. Farmer 71: 832. Nov. 18, 1948. 6 Or32
- 11229 MÜLLER-LENHARTZ, W. H. O. Das C-vitamin. Berlin. u. München. Tierärztl. Wochenschr. 1947: 134-135. Nov. 1947. 41.8 B45  
Role in the metabolism of cattle, and in their milk.
- 11230 PATEL, B. M., and RAY, S. C. Studies on cotton seed feeding to milch animals. I. Indian J. Dairy Sci. 1: 1-10. Mar./June 1948. 44.8 In28
- 11231 PAWSON, H. C. Wintering store cattle. Gt. Brit. Min. Agr. Agriculture 55: 334-338. Nov. 1948. 10 G79J  
Winter rations for young beef cattle.
- 11232 RUSZCZYC, Z. Some observations on the influence of intensive feeding of heifers before calving. (In Polish.) Przegl. Hodowlany 16: 209-210. July 1948. 49 P952  
English summary.
- 11233 SANDERSON, C. J. Need for proper system of calf feeding. Land [Sydney] 1923: 18, 21. Sept. 17, 1948. 23 L22
- 11234 SANDERSON, C. J. Stock feeding for increased production. Land [Sydney] 1927: 18. Oct. 15, 1948. 23 L22  
Chiefly dairy cattle.
- 11235 SCACCAGLIA, R. Water requirements of cattle. (In Italian.) Avvenire Agr. 5: 235-236. Sept. 1948. 16 Av9
- 11236 SCHREIBER, R. Oelkuchen für die milchviehfütterung. Neue Mitt. f. die Landw. 3: 347-348. Oct. 25, 1948. 18 N39
- 11237 SHAWAN, J. A. Getting ready for a successful milk production season. Ohio Farm Bur. News 28 (5): 32-33. Dec. 1948. 6 Oh34  
Fall and winter dairy feeding program.
- 11238 SLADE, R. E. The winter feeding of livestock. Gt. Brit. Min. Agr. Agriculture 55: 338-343. Nov. 1948. 10 G79J
- 11239 SMITHMEYER, J. E. Feeding cattle is fine art. Idaho Farmer 66: 863, 876. Dec. 2, 1948. 6 G282
- 11240 TURK, K. L. Fall feeding for more fall milk. Dairymen's League News 32(22): 6. Nov. 2, 1948. 44.8 D1432
- 11241 TURK, K. L. Feed all surplus colostrum. Dairymen's League News 32(23): 6-7. Nov. 16, 1948. 44.8 D1432
- 11242 TURK, K. L. Profitable levels of concentrate feeding. Dairymen's League News 32(24): 6. Nov. 30, 1948. 44.8 D1432
- 11243 TURK, K. L. Roughage and the dairy ration. Feed Bag 24(11): 51-52. Nov. 1948. 389.78 F32
- 11244 TURK, K. L. Schedule of feeding. Dairymen's League News 32(25): 6-7. Dec. 14, 1948. 44.8 D1432
- 11245 VINCENT, G. Quelques données relatives à l'importance des matières premières utilisées pour l'alimentation de notre cheptel. Rev. de l'Agr. 1: 472-486. June 1948. 13 R322
- 11246 WARNER, R. G., and SUTTON, T. S. The nutrition of the newborn dairy calf. III. The response to a photolyzed milk diet. J. Dairy Sci. 31: 976-985. Ref. Nov. 1948. 44.8 J822
- 11247 WHARTON, C. Sugar beet tops and pulp maintain our cows. Dairy Farmer [Ipswich] 21 (9): 16. Sept. 1948. 44.8 D1414
- 11248 WITTKORN, T. H. Successful steer feeding operation. Rural New-Yorker 98: 731. Dec. 4, 1948. 6 R88
- 11249 WOOD, G. W. Grain fattening of beef cattle. Manitoba. Dept. Agr. and Immigr. P. 218, 4 p. Aug. 1948. 275.29 M313
- 11250 ZÓPHONIASSON, P. Directions for winter feeding. (In Icelandic.) Freyr 43: 248-251. Aug. 1948. 11 F89  
Cattle.
- 11251 ABEL K., R. Preparación de suero precipitante antibovino. Agr. Tec. 8: 55-66. Ref. June 1948. 464.9 C432B  
English summary.
- 11252 AIMERITO, G. C. A case of fatal poisoning by sweet sorghum. (In Italian.) Prog. Vet. 3: 46-47. Feb. 1, 1948. 41.8 P942  
In cattle.
- 11253 ALLEN, D. R. Laburnum poisoning in cattle. Vet. Rec. 60: 586. Nov. 13, 1948. 41.8 V641
- 11254 ANDERSSON, N. Tuberculosis and tuberculin tests. (In Swedish.) Lantmannen 32: 272-274. Apr. 17, 1948. 11 L234  
In cattle.
- 11255 ANDRES, J. Pathogenesis, clinical symptoms and diagnostic methods of tuberculosis in cattle. (In Polish.) Med. Wet. 4: 521-526. Sept. 1948. 41.8 M463
- 11256 ARMOUR AND COMPANY. LABORATORIES. CHEMICAL RESEARCH AND DEVELOPMENT DEPT. Bovine plasma proteins; annotated bibliography on bovine fibrinogen. Chicago, 1947. 6 p. 241.64 Ar5B
- 11257 BALLANI, B. Rickets in bullocks. (In Italian.) Agr. Romagna 1948. 1. Sept. 20, 1948. 16 Ag828
- 11258 BARTLETT, S., and others. Oestrogens in grass and their possible effects on milk secretion. Nature [London] 162: 845. Nov. 27, 1948. 472 N21  
S. J. Folley, S. J. Rowland, D. H. Curnow, and S. A. Simpson, joint authors.
- 11259 BASS, R. L. Liver fluke danger in wet places. Fla. Cattleman 13: 17. Oct. 1948. 43.8 F66  
Cattle.
- 11260 BASSI, A. Practical observations on prolapse of the uterus in the bovine species. (In Italian.) Nuova Vet. 24: 97-99. Mar. 15, 1948. 41.8 N922
- 11261 BECK, J. D. A discussion of X disease; proliferative stomatitis and esophagitis, hyperkeratosis. Vet. Excerpta 8: 81-83. 1948. 41.9 V6419  
In cattle.
- 11262 BELTRÁN, J. M. La ingestión de cuerpos extraños por los bovinos. Cám. Ofic. Sind. Agr. de Barcelona. B. 3: 27-29. Feb. 1948. 15 C14
- 11263 BENNETTS, H. W., BECK, A. B., and HARLEY, R. The pathogenesis of "falling disease." Studies on copper deficiency in cattle. Austral. Vet. J. 24: 237-244. Ref. Sept. 1948. 41.8 Au72
- 11264 BERTOCCHI, D. Biochemical modifications of the blood in tuberculous cattle. (In Italian.) Nuova Vet. 24: 258-265. Aug. 1948. 41.8 N922
- 11265 BEUVERY-ASMAN, A., and BEUVERY, L. L. E. 10 years tuberculosis control in the consumer milk area. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 747-751. Oct. 1, 1948. 41.8 T431
- 11266 BISWAL, G. Coccidiosis in buffalo calves. Indian Vet. J. 25(1): 36-38. July 1948. 41.8 In2
- 11267 BORRELLI, G. Prognosis and signs of approaching death in clinical bovine practice. (In Italian.) Nuova Vet. 24: 230-236. July 1948. 41.8 N922
- 11268 BRIGATTI, C. Investigations on the morphology of the corpus luteum as a possible element in the early diagnosis of pregnancy in cattle. (In Italian.) Zootec. e Vet. 3: 418-424. July 1948. 41.8 Z7
- 11269 BROCHARD. L'obstruction de l'oesophage chez les bovins. Terre 212: 1, 3. Nov. 4/10, 1948. 281.8 T27
- 11270 CAVALLI, G. On intestinal invagination. (A case of intestinal invagination in an ox, ending with the spontaneous cure of the subject and with the elimination of the invaginated tract of the intestine, 166 cm. in length.) (In Italian.) Prog. Vet. 3: 139-144. May 1, 1948. 41.8 P942
- 11271 CHIEFFI, A., VEIGA, J. S., and PAIVA, O. M. Contribution to the study of the dental chronology in the Zebu. Statistical study on 428 Gir and Nellore males and females. (In Portuguese.) São Paulo U. Facul. de Med. Vet. Rev. 3: 251-267. Ref. June 1948. 41.8 Sa6  
English summary.
- 11272 CHRISTIAN, A. B. Control of pneumonia in cattle with sulfamethazine. Vet. Med. 43: 518-521. Dec. 1948. 41.8 M69
- 11273 CLARK, C. F. Bang's control in Michigan. Mich. Farmer 210: 293, 322. Nov. 6, 1948. 6 M58  
Brucellosis of cattle.
- 11274 CLER, G. O. Meteorismo y empastamiento. (Consideraciones generales, sinonimias, causas, síntomas, profilaxis y tratamiento). Buenos Aires. Dir. de Med. Vet. B. 4(21/22): 18-20. 1947. 41.9 B865  
Principally in cattle.
- 11275 CONDIGIANI, J. R. Tuberculosis bovina. Res 16: 22912. Oct. 20, 1948. 286.85 R31
- 11276 CORREA, O. The use of phenothiazine on dairy farms. (In Portuguese.) Granja 3(34): 25-26. July 1948. 9.2 G76  
Therapeutic use.

#### Veterinary Medicine



- 11277 COSGROVE, C. M. "Q" fever. Pure Milk 22(11): 8-9. Nov. 1948. 280.28 P97  
List of people and firms cooperating in research.
- 11278 DIERNHOFER, K. Die tuberkulose des rindes als gewährsmangel. Anwendung der gesetzlichen bestimmungen. Wiener Tierärztl. Monatsschr. 34: 545-555. Oct. 1947. 41 T345
- 11279 DOCKER, T. M. Sterility, late calving, and abortion losses from bovine trichomoniasis. New Zeal. J. Agr. 77: 255-256. Sept. 1948. 23 N48J
- 11280 DOMINGUES, O. Why cows retain milk. (In Portuguese.) Agronomia [Rio de Janeiro] 7: 109-111. Apr./June 1948. 9.2 Ag892
- 11281 DOMINGUES, O. Why the cows "let down" the milk. (In Portuguese.) Lav. Arroz. 2(19): 36. July 1948. 59.8 L39
- 11282 DUCK, R. W. Back in the barn. Rural New-Yorker 98: 716, 721. Nov. 20, 1948. 6 R88  
Chiefly dairy cattle diseases.
- 11283 EDGSON, F. A. Mepacrine hydrochloride in the treatment of bovine coccidiosis; summary of a herd outbreak and its treatment. Vet. Rec. 60: 517-518. Oct. 23, 1948. 41.8 V641
- 11284 ERDMANN, F. Características de la vaca lechera. Res 16: 22886-22888. Oct. 5, 1948. 286.85 R31
- 11285 FARLEY, H., and others. Anaplasmosis in Oklahoma cattle. Okla. Agr. Expt. Sta. B. B-323, 19 p. Sept. 1948. 100 Ok4  
L. E. Foote, C. C. Pearson, and I. O. Kliever, joint authors.
- 11286 FARRAG, H. Study on micrococci. Vet. J. 104: 388-389. Nov. 1948. 41.8 V643  
Presence in milk and relation to bovine mastitis.
- 11287 FETHERS, G. Contagious abortion of cattle. Past. Rev. 58: 842-844. Sept. 16, 1948. 23 Au75
- 11288 FRANK, E. R. Bovine surgery. Iowa Vet. 19 (6): 9-12, 20-21. Nov./Dec. 1948. 41.8 Io9
- 11289 FREITAS BIGLIERI, J. DE, and others. Contribución al estudio de la hematología bovina; determinación de los valores sanguíneos normales y variaciones comprobadas en la fórmula leucocitaria de bovinos inoculados con virus aftoso. Uruguay. Dir. de Ganad. B. Mens. 30: 85-139. Ref. Apr./June 1948. 41.9 Ur8  
D. Escuder, J. F. Carballo Pou, N. Magallanes, H. González Marini, R. Vega, and A. Bagnasco, joint authors.
- 11290 FROEHNER, R. Rinderpest 1870 in Süddeutschland. Tierärztl. Umschau 2: 15-16. Jan. 1947. 41.8 T445
- 11291 GALLINA, L. Bacterial infections of the genital organs of the cow. (The responsibility of veterinarians.). (In Italian.) Prog. Vet. 3: 155-157. May 15, 1948. 41.8 P942
- 11292 GASKA, A. A contributory note on milk fever in cows. (In Polish.) Med. Wet. 4: 608. Oct. 1948. 41.8 M463
- 11293 GEROSA, G. Considerations on the use and results of "Antiprolasso-Zoo." (In Italian.) Prog. Vet. 3: 123-125. Apr. 15, 1948. 41.8 P942  
Treatment for genito-vaginal prolapse in cows.
- 11294 GEROSA, G. Cure and prophylaxis of foot diseases of cattle with particular reference to Lombardy limp. (In Italian.) Humus 4(3): 13-15. Mar. 1948. 16 H88
- 11295 GERSTNER, R. Vom aufblähen des rindes. Salzburg. Bauer 3(35): 3-4. (Cont.) Aug. 26, 1948. 19 Sa3
- 11296 GÓMEZ, M. R. La verdad sobre los cebús conjunturas sobre la aftosa. Mexico, D. F., 1948. 209 p. 41 G584
- 11297 GRAY, N. Preventative measures for mastitis. Butter-Fat [Vancouver] 26(8): 7. Nov. 1948. 44.8 B98
- 11298 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. White scour in calves. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 10, 2 p. Aug. 1948. 41.9 G792A
- 11299 GREGOIRE, C., and HENNAU, A. La détection électronique des corps étrangers chez les bovins; possibilités d'application au diagnostic et au traitement. Ann. de Méd. Vét. 92: 201-214. Ref. Sept./Oct. 1948. 41.8 An78
- 11300 GUALANDI, G. Intravenous tuberculinization in cattle. (In Italian.) Nuova Vet. 24: 119-123, 150-154. Apr. 15-May 15, 1948. 41.8 N922
- 11301 HAAN, W. A. DE. Control of cattle tuberculosis in the Netherlands; and an investigation of the field infection of this disease. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 693-729. Ref. Oct. 1, 1948. 41.8 T431  
English summary.
- 11302 HANCOCK, J. L. The clinical analysis of reproductive failure in cattle. Vet. Rec. 60: 513-517. Ref. Oct. 23, 1948. 41.8 V641
- 11303 HEMMERT-HALSWICK, A. Zur tilgung der tuberkulose des rindes. Berlin. u. München. Tierärztl. Wochenschr. 1948: 1-6. Jan. 1948. 41.8 B45
- 11304 HENRIKSSON, A. Prevention of diseases in cattle. (In Swedish.) Ladugården 1948: 65-66. Apr. 1948. 44.8 L12  
Milk fever.
- 11305 HERK, A. Das unregelmässige euter einer kuh. Oberöstr. Landwirtschaftsztg. 20(45): 4. Nov. 3, 1948. 19 Ob23
- 11306 HIRSCHFELD, W. K. Homozygosis for production factors in cattle. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 758-762. Oct. 15, 1948. 41.8 T431
- 11307 HOOPEN, W. T. Experiences with organized tuberculosis control of cattle in Groningen and Drenthe as inspector of the Veterinary Service. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 742-746. Oct. 1, 1948. 41.8 T431
- 11308 HOOPEN, W. T. Marking reaction animals. Identification of cattle with positive tuberculin reaction. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 254-255. Apr. 1, 1948. 41.8 T431
- 11309 HUBER L., G. Conocimiento de la edad de los bovinos por los dientes y los cuernos. Rev. Ganad. [Habana] 8(9): 14-15. (To be cont.) Sept. 1948. 49 R321
- 11310 HUBER L., G. Determinación de la edad por medio de los cuernos. Rev. Ganad. [Habana] 8(11): 10-11. Nov. 1948. 49 R321  
Cattle.
- 11311 JANISZEWSKI, J. A case of monstrosity of the skeleton in a calf. (In Polish.) Med. Wet. 4: 551-552. Sept. 1948. 41.8 M463
- 11312 JILEK, J. Abnormal parturition in a cow. (In Czech.) Časopis Českoslov. Vet. 3: 576-577. Oct. 10, 1948. 41.8 C27
- 11313 KUDRNA, J., and KRZEMIEN, J. Strongylosis of lungs in cattle on the pasture. (In Czech.) Časopis Českoslov. Vet. 3: 603-604. Oct. 25, 1948. 41.8 C27
- 11314 LAHIRI, B. M. Acetonemia in cattle. Indian Vet. J. 25(1): 41-44. July 1948. 41.8 In2
- 11315 LAMOUNIER, R. D. A new technique for the determination of icteric index in cattle. Clinical applications. (In Portuguese.) São Paulo U. Facul. de Med. Vet. Rev. 3: 171-180. June 1948. 41.8 Sa6  
English summary.
- 11316 LEBLOIS, C. Deux abcès ossifluents bacillaires chez un bœuf. Acad. Vét. de France. B. 21: 289-291. July 1948. 41.9 R24
- 11317 LINON, G. La vaccination contre la fièvre aphteuse du bétail français allant en transhumance au voisinage de la frontière franco-espagnole. Acad. d'Agr. de France. Compt. Rend. 34: 831-833. June 30/July 7, 1948. 14 P215Bc
- 11318 LIPNICKI, J. Combating brucellosis; treatment and prevention. (In Polish.) Med. Wet. 4: 533-538. Ref. Sept. 1948. 41.8 M463  
French summary.
- 11319 MCCANN, P. J. Much loss from calf diseases is preventable. New Zeal. J. Agr. 77: 259, 261-262. Sept. 1948. 23 N48J
- 11320 MALPRESS, F. H. Milk: its formation and secretion. New Biol. 4: 119-142. 1948. 442.8 J63
- 11321 MAYHEW, R. L. Phenothiazine as a larvicide against the hookworm of cattle [Bunostomum phlebotomum]. (Abs.) J. Parasitol. 34(6, sup.): 14. Dec. 1948. 448.8 J824
- 11322 MELLO, M. J. DE. Controlling worms in cattle and swine. (In Portuguese.) Chacaras e Quintais 78: 451-452. Oct. 15, 1948. 9.2 C34
- 11323 MOORE, T., and MITCHELL, C. A. Vaccination of sexually mature cows with Brucella abortus strain 19. I. Negative cows contained in negative dairy herds. Canad. J. Compar. Med. 12: 278-283. Oct. 1948. 41.8 C162  
French summary.



- 11324 MORGAN, B. B. Studies on the precipitin and skin reactions of *Trichomonas foetus* (Protozoa) in cattle. *J. Cell. & Compar. Physiol.* 32: 235-246. Ref. Oct. 1948. 44.8 J822
- 11325 MURPHY, F. A stockman's position on Bang's. *Amer. Cattle Prod.* 30(6): 22, 24. Nov. 1948. 49 P94
- 11326 NAGEL, W. Die bekämpfung der rindertuberkulose in Baden. *Tierärztl. Umschau* 2: 27-28. Feb. 1947. 41.8 T445
- 11327 NAGEL, W. Rindertuberkulosebekämpfung im ausland. *Landpost* 4(12): 5. June 25, 1948. 18 L2329
- 11328 NARAYANAN, A. Mixed protozoal infection in a calf. *Indian Vet. J.* 25(1): 41. July 1948. 41.8 In2
- 11329 NOBILI, I. On the clinical diagnosis of tuberculosis in cattle; importance of percussive evidence. (In Italian.) *Nuova Vet.* 24: 278-282. Aug. 1948. 41.8 N922
- 11330 NUILA LÓPEZ, L. La selección de ganado lechero es urgente y de gran interés en El Salvador. *Rev. Ganad. [San Salvador]* 8(106/107): 4-6. Sept./Oct. 1948. 8 R3292
- 11331 OLSSON, E. General observations on the prevention of deficiency diseases. (In Swedish.) *Ladugården* 1948: 35-37. Mar. 1948. 44.8 L12
- In cattle.
- 11332 ORLANDINI, C. Corneal dermoid in a calf. (In Italian.) *Nuova Vet.* 24: 154-158. May 15, 1948. 41.8 N922
- 11333 ORTIZ VELEZ, M. El descorne de los bovinos. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 2(4): 64-66. Mar. 1948. 49.9 P433
- 11334 OVERBEEK, A. A. Backwardness of the control of tuberculosis in cattle in the Netherlands. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 730-736. Oct. 1, 1948. 41.8 T431
- 11335 PAIVA, O. M., and RIBEIRO, P. DE A. Distance from the torus pyloricus to the papilla duodeni hepatica in Brahman crossbreds (statistical study of 411 observations). (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 3: 223-246. Ref. June 1948. 41.8 Sa6
- English summary.
- 11336 PAPARELLA, R. On the efficacy of "Estrogenina Erba" in the absence of heat in cattle. (In Italian.) *Prog. Vet.* 3: 158-159. May 15, 1948. 41.8 P942
- 11337 PELLISSIER, A., TRINQUIER, E., and TROQUEREAU, P. Sur une épidémie meurtrière chez les bovidés des environs de Brazzaville due à *Salmonella enteritidis* var. dublin. *Soc. de Path. Exot. B.* 41: 307-311. 1948. 44.8 So13
- 11338 POSSAGNO, M. Exterior conformation in relation to aptitudes and functional equilibrium. (In Italian.) *Agr. Trentina* 3(16): 1. Aug. 15, 1948. 16 Ag8263
- Cattle.
- 11339 RINSES, J. Necrosis miliaris in the calf's liver. (In Dutch and English.) *Tijdschr. v. Diergeneesk.* 73: 154-156. Mar. 1, 1948. 41.8 T431
- Due to *Salmonella* infection.
- 11340 ROACH, R. W. Penicillin for treatment of mastitis: preparations suitable for use by farmers. *New Zeal. Dept. Agr. B.* 312, 8 p. July 1948. 23 N48Bu
- In cattle.
- Also in *Farmers' Weekly [Perth]* 2(13, sup.): 3. Oct. 7, 1948. 23 F227
- 11341 ROBERTSON, A., and others. Some observations on milk fever. *Vet. Rec.* 60: 505-508. Oct. 16, 1948. 41.8 V641
- J. W. Burgess, A. Marr, and B. J. C. Milne, joint authors.
- In cattle.
- 11342 RONCATI, G. Cytology of the bovine hypophysis with a modern method of staining. (In Italian.) *Nuova Vet.* 24: 114-119. Apr. 15, 1948. 41.8 N922
- 11343 ROSS, O. B., MACVICAR, R. W., and STEPHENS, D. F. Methods of range management and blood studies of Hereford cows. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 106-107. 1948. 4 C82
- 11344 ROWAT, R. M. Cobalt mineral supplement saves cattle and sheep from scourge 'pining disease.' *Country Life [Vernon]* 32(11): 13. Nov. 1948. 7 C832
- 11345 RUIZ MARTÍNEZ, C. La mamitis de la vaca. *Rev. Gran Colomb. de Zootec. Hig. y Med. Vet.* 2(1/3): 36-92. Jan./Mar. 1948. 41.8 R3253
- 11346 SANZ, B. La vacunación antituberculosa con el B C G.; labor realizada con este método en Chile por el Instituto Biológico de la S. N. de A. Campesino [Santiago] 80(10): 25, 27-29, 31-32. Oct. 1948. 9.3 So12
- Cattle.
- 11347 SARMA, R. B. Penicillin in bovine mastitis. *Indian Vet. J.* 25(1): 40. July 1948. 41.8 In2
- 11348 SCARAPANI, G. C. Streptococcic mastitis of milk cows. (In Italian.) *Latte* 22(6): 7-8; (7): 7-8. June-July 1948. 44.8 L35
- 11349 SCHNEIDER, E. Untersuchungen über diagnose, lokalisation, therapie und übertragung von *Trichomonas foetus* bei zuchtstieren. *Schweizer Archiv für Tierheilkunde* 90: 543-565. Ref. Oct. 1948. 41.8 Sch9
- 11350 SCHULTZE, A. B., and DAVIS, H. P. Effect of thyroxine on oxygen consumption of bovine spermatozoa and semen. *J. Dairy Sci.* 31: 946-950. Nov. 1948. 44.8 J822
- 11351 SCOTT, W. Osseous actinomycosis bovis: a mistake in diagnosis. *Vet. J.* 104: 389-390. Nov. 1948. 41.8 V643
- Piece of tin can imbedded in jaw simulates disease.
- 11352 SEELEMANN, M. Planlose oder planmäßige abortus Bang-bekämpfung? Berlin. u. München. *Tierärztl. Wochenschr.* 1948: 13-15. Ref. Feb. 1948. 41.8 B45
- 11353 SMITH, W. S. Milk fever, grass tetany and acetonaemia in dairy cattle. *So. Austral. Dept. Agr. J.* 52: 9-10. Aug. 1948. 23 So84
- 11354 SORIA, G. E. Bovinometria. *Chacra* 19(217): 19-20, 102. Nov. 1948. 9 C34
- 11355 SPENA, A. Manifestations of theileriasis in a group of cattle imported from Kenya. (In Italian.) *Nuova Vet.* 24: 177-183, 227-229, 273-278. June-Aug. 1948. 41.8 N922
- 11356 STABLEFORTH, A. W. Mastitis: mass treatment trials. *Indian Vet. J.* 25(1): 44-46. July 1948. 41.8 In2
- In cattle.
- 11357 STORMONT, C. The J substance, an acquired character of cattle erythrocytes. (Abs.) *Genet. Soc. Amer. Rec.* 17: 59-60. 1948. 44.2 G28
- 11358 SVENSSON, S. E. Serious danger of brucellosis infection during pasture. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland* 18(14): 8. Apr. 3, 1948. 11 J762
- Cattle.
- 11359 SZAFLARSKI, J. A contributory note on poisoning of cattle with oleum Sinapis. (In Polish.) *Med. Wet.* 4: 605-606. Oct. 1948. 41.8 M463
- 11360 THORNBURY, R. S. Sodium sulphapyridine in the treatment of footrot in dairy cows. *Austral. Vet. J.* 24: 254-256. Sept. 1948. 41.8 Au72
- 11361 TRÉPANIER, M., GENEST, P., and PELLETIER, R. Action synergétique de la pénicilline et du sulfathiazole dans un cas de charbon symptomatique chez une génisse. *Canad. J. Compar. Med.* 12: 266-268. Oct. 1948. 41.8 C162
- English summary.
- 11362 VAITSMAN, J. An obscure cattle disease. (In Portuguese.) *Rev. Agron.* 12: 111. Apr./June 1948. 9.2 R325
- Malignant catarrhal fever.
- 11363 VANDEPLASSCHE, M., and PAREDIS, F. Preservation of the fertilizing capacity of bull semen in the genital tract of the cow. *Nature [London]* 162: 813. Nov. 20, 1948. 472 N21
- 11364 VAN DRIMMELEN, G. C. The viability of *Brucella abortus* bovis in milk samples from infected cows. *So. African Vet. Med. Assoc. J.* 19: 58-60. June 1948. 41.8 So8
- 11365 VEENSTRA, M. J. Control of tuberculosis. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 737-741. Oct. 1, 1948. 41.8 T431
- 11366 WALTON, A. Physiology of the dairy cow. II. Digestion and absorption of food. *Home Farmer* 15(11): 16. Nov. 1948. 280.344 H75
- 11367 WELCH, H. Shipping fever of calves; prevalence calls for care in handling. *Mont. Farmer-Stockman* 36(8): 17. Dec. 15, 1948. 6 M764
- 11368 WHALEY, A. E. Parasites [in cattle] big problem for rancher. *Fla. Cattleman* 13(2): 27, 59. Nov. 1948. 43.8 F66
- 11369 WILLE, R. Die behandlung der metropathie des rindes. *Tierärztl. Umschau* 2: 50-52. Mar. 1947. 41.8 T445
- 11370 WILLE, R. Die diagnostik der metropathie des rindes. *Tierärztl. Umschau* 2: 10-11. Jan. 1947. 41.8 T445



11371 WRAMBY, G. Investigations into the antigenic structure of Bact. coli [i.e. *Escherichia coli*] isolated from calves; with special reference to coli septicaemia (white scours). *Acta Path. et Microbiol. Scand. Sup.* 76, 168 p. 1948. 448.3 Ac3

11372 ZACHERL, M. K., and KAPOUN, R. Über chromogene des rinderharnes. *Wiener Tierärztl. Monatsschr.* 34: 771-775. Ref. Dec. 1947. 41 T345

#### Miscellaneous

11373 ALLEN, N. N. Clip for cleaner milk. *Hoard's Dairyman* 93: 851. Nov. 25, 1948. 44.8 H65

11374 ATKINSON, E. My methods for getting high [milk] yields. *Dairy Farmer [Ipswich]* 21(9): 23. Sept. 1948. 44.8 D1414

11375 AYSHIRE CATTLE HERD BOOK SOCIETY OF AUSTRALASIA. Ayrshire test records 1944-47. Melbourne, 1947. 31 p. 44.92 Ay7  
Milk production records.

11376 BASSMANN, F. General instructions for judging cattle in official exhibitions. (In Portuguese.) *Granja* 3(34): 28-29. July 1948. 9.2 G76

11377 BRIMBLECOMBE, V. J. Points in dairy practice. *Queensland Agr. J.* 67: 26-28. July 1948. 23 Q33

11378 CLARK, R. M. New type F. F. A. dairy show. *Agr. Ed. Mag.* 21: 142. Dec. 1948. 275.8 Ag8

11379 CSISZÁR, V. The correct milking with regard to the cavernous system of the udder. (In Hungarian.) *Tejgazdaság* 5: 85-97. Aug. 1947. 44.8 T233  
English summary.

11380 DAIGLE, J. La vache et la découverte d'un grand savant. *Foyer Rur. [Montreal]* 7(12): 10. Sept. 1948. 7 F83

11381 DELLA-TOLA, J. Calf rearing. *Countryman [Nicosia]* 1947: 4-6. Dec. 1947. 22.5 C83

11382 DOOD, F. H., and FOOT, A. S. Residual milk. *Gt. Brit. Min. Agr. Agriculture* 55: 238-242. Sept. 1948. 10 G79J  
Milk yield following oxytocin injection.

11383 DURRWAECHTER. Auf dem wege zur veredlungswirtschaft; freiwillige milchkontrolle und mitgliedschaft zum zuchtverband! *Landw. Wchnbl.* 138: 248-249. (Cont.) Sept. 11, 1948. 18 L2338  
Records and testing.

11384 FAUSTER, J. Melkerwettbewerb—die beste schulung unserer melker! *Kärntner Bauer* 98: 231-232. July 15, 1948. 19 K14

11385 FERREIRA, E. Milking and control of the milk supply. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7: 65-88. Apr./June 1948. 9.2 Ag892

11386 GARSIDE, M. S. Baby beef project for 4-H Club members. *Ky. Agr. B.* 5(10): 3. Nov. 1948. 280.38 K41

11387 GEARHART, C. R. Solving production problems the DHIA way. *Dairymen's Price Rptr.* 30(11): 5. Nov. 1948. 280.28 D14

11388 GILMORE, L. O., and GULLICKSON, T. W. You can reduce calf losses. *Minn. Farm & Home Sci. [Minn. Sta.]* 6: 3, 14, 15. Nov. 1948. 100 M668  
Care and feeding.

11389 GLEASON, H., and RYDBERG, C. Local DHIA sets pace for State [Washington]; dairymen find testing pays off. *Skagit Co-op Dairyman* 26(3): 8-9, 11, 20. Nov. 1948. 280.28 Sk1

11390 GOODE, C. E. Some tips on selecting, fitting and showing beef steers. *Manitoba. Dept. Agr. and Immigr. P.* 217, 17 p. Feb. 1948. 275.29 M313

11391 GRATH. Die milchleistungsprüfungen in der zukunft. *Allgäuer Bauernbl.* 16: 207. Sept. 3, 1948. 18 AL53

11392 HENRIKSSON, A. Care of hoofs before pasturing of cattle. (In Swedish.) *Ladugården* 1948: 49-50. Mar. 1948. 44.8 L12

11393 HERWEIJER, C. H. Catching wild Bali-cattle. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 54: 69-73. June 1947. 41.8 V51  
English summary.

11394 HÖLLERICH, R. Die melkarbeit. *Österr. Milch- u. Fettwirtschaft* 3: 185-187. (Cont.) Aug. 1948. 44.8 Os72

11395 HOMEWOOD, R. A., and others. Wintering in or—wintering out? *Dairy Farmer [Ipswich]* 21(11): 12-13. Nov. 1948. 44.8 D1414  
J. E. Bennion, J. McHardy; and R. M. Kidd, joint authors.

11396 HUTCHINSON, J. High land—high yields. *Farmers Weekly [London]* 29(20): 37. Nov. 12, 1948. 10 F2226

Management of a dairy farm in Wales.

11397 JAUME, J. Selección del ganado vacuno. *Balearic Isl. Diputación Prov. B. de Agr.* 45: 6-8. June 1948. 15 B19

11398 JOHANSSON, I. Yield control and progeny testing in U S A. (In Swedish.) *Lantmannen* 32: 230-231. Apr. 3, 1948. 11 L234  
Dairy cattle.

11399 JONG, W. DE. Exterior judging of our dairy cattle. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 29-31. Jan./Feb. 1948. 105.2 Or3

11400 KRIGE, I. M., and TIMSON, S. D. Care and management of a dairy herd. *Rhodesia Agr. J.* 45: 216-229. May/June 1948. 24 R34  
Includes making of compost.

11401 LLOVET MONT-ROS, J. A propósito de la comprobación de rendimiento lácteo en el ganado vacuno de la provincia. *Cám. Cfic. Sind. Agr. de Barcelona.* B. 3: 238-243. Sept. 1948. 15 C14

11402 MAARSSØ, S. A. Current problems in Danish cattle raising. (In Swedish.) *Ladugården* 1948: 189-190. Sept. 1948. 44.8 L12  
Sterility, diseases and breeding.

11403 MCMEKAN, C. P. Ruakura research shows how to rear well-grown dairy heifers. *New Zeal. J. Agr.* 77: 138-141. Aug. 1948. 23 N48J

11404 MOSES, T. The history of cattle in the Lone Star State. *Gulf Coast Cattleman* 14(8): 5-7. Oct. 1948. 43.8 C63

11405 NAZARENKO, I. I. Genealogical analysis of the main lines of Taro Slav cattle. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva.* Dok. 7: 165-169. 1948. 20 M857

11406 NEVENS, W. B. Principles of milk production. *Urbana*, 1948. 154 p. 44 N412  
Feeding, breeding, and care of dairy cattle.

11407 NEW MEXICO. COLLEGE OF AGRICULTURE. EXTENSION SERV. Selecting bulls to produce heavier calves and at the same time meet packer demands, by R. D. Rasmussen. *State College*, 1948. 3 p. 275.29 N463En

11408 NICHOLDS, E. An open letter from cow tester to farmer. *Hoard's Dairyman* 93: 890, 896-897. Dec. 10, 1948. 44.8 H65

11409 NICHOLS, M. B. D.H.I.A. records can be of great use. *Jersey B.* 67: 1934. Nov. 25, 1948. 43.8 J48

11410 PAJAK, J. Cattle at the Slavonian Agricultural Exhibition in Prague. (In Polish.) *Przegl. Hodowlany* 16: 233-237. Aug. 1948. 49 P952

11411 PARKIN, I. E. Practice manage milking. *Dairymen's Price Rptr.* 30(11): 3-4. Nov. 1948. 280.28 D14

11412 PERRY, E. J. Rapid turnover in dairy cows and what can be done about it. *N. J. Farm & Gard.* 19(10): 18, 74. Oct. 1948. 6 G162  
Due to lack of care.

11413 PIEN, J. De la nécessité impérieuse du point de vue de l'hygiène et du point de vue industriel d'améliorer les conditions de la récolte du lait. *Indus. Lait.* 24: 155-166. (To be cont.) Sept. 1948. 44.8 In2

11414 SCHLUGA, N. Naturgemässe viehhaltung. *Kärntner Bauer* 98: 250-251. Aug. 1, 1948. 19 K14

11415 SHEEHY, E. J. Good ventilation and cleanliness; prevention, not treatment, is the best way to tackle diseases to which calves are liable. *Farmer & Stock-Breeder* 62: 2596-2597. Nov. 9, 1948. 10 F228

11416 SIMS, A. J. Cattle on the up-and-up. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 63(12): 26. Dec. 1948. 6 P945K

Raising beef cattle.

11417 SPANN, J. Einiges über die hornlosigkeit beim rinde. *Allgäuer Bauernbl.* 16: 205-206. Sept. 3, 1948. 18 AL53

11418 TANKERVILLE, EARL OF. Chillingham wild cattle. *Field* 192: 433. Oct. 16, 1948. 10 F45  
Park (White) dual-purpose breed.

11419 THOMPSON, A. M. Milk with speed and ease; the new tandem system. *Ala. Farmer* 27(2): 10. Nov. 1948. 276.8 AL1



11420 TOLONEN, K. Increase in membership of dairy herd improvement associations; the dairy herd improvement associations during 1946/47. (In Swedish.) *Lantmannen* 32: 147-149. Feb. 28, 1948. 11 L234

11421 TROMMER, M. Rinderschauen einst und jetzt. *Landw. Wchnbl.* 138: 222-223. Aug. 28, 1948. 18 L2338  
Germany.

11422 TYRER, T. G. On this trim southland dairy-farm, Old Man Winter holds no fears for them. *New Zeal. Dairy Exporter* 24(4): 16-19. Oct. 1948. 44.8 N484

11423 WHITLOCK, R. It's the milk that matters... but machinery overshadows the cow at the dairy show. *Field* 192: 514-515. Nov. 6, 1948. 10 F45

11424 WILLARD, H. S. Effect of Holstein birth-weight on calf gain and final weight. *Wyo. Agr. Expt. Sta. B.* 286, 14 p. Ref. Aug. 1948. 100 W99

11425 WILLE, R. Milchproduktion und Malthus-Theorie. *Tierärztl. Umschau* 2: 260-262. Nov. 1947. 41.8 T445

11426 WINZENRIED, H. U., and WANNTORP, H. Der genetische einfluss auf die höhe des vitamin A- und karotiningehaltes in milch von eineiigen rinderzwillingen. *Internatl. Z. f. Vitaminforsch.* 20(1/3): 134-157. Ref. 1948. 389.8 Z33

Summary in English and French.

11427 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Dairying as a 4-H project. *Wis. Agr. Col. Ext. C.* 4-H 59, 40 p. June 1948. 275.29 W75Cf

11428 WOLF, A. M. Why milk cows leave the farm. *Dakota Farmer* 68(18): 24-25. Sept. 18, 1948. 6 D14  
Lack of care.

11429 ZORN, W. Das wichtigste aus dem gebiete der rinderzucht und rinderhaltung in der fachliteratur des in- und auslandes seit 1945. *Bavaria. Landesanst. f. Tierzucht in Grub. Mitt.* 1948(1/2): 3-30. Ref. 1948. 49 B32

## DOGS AND CATS

### Breeds and Breeding

11430 BELL, W. Der Dalmantiner. *Kleintier-Zücht. Tierbörse* 2(43): 9. Sept. 10, 1948. 49 K672  
Dogs.

11431 BEMIS, R. W. Irish Terrier standard clarified. *Dog World* 33(12): 135. (Cont.) Dec. 1948. 48.8 D672

11432 CAHOON, H. H. Anent the Setter. *Amer. Field* 150: 367-368. Oct. 2, 1948. 410 Am3

11433 CANADIAN KENNEL CLUB, INC. The Canadian Kennel Club stud book. v. 51, 901 p. Owen Sound, 1948. 48.9 C16

11434 CARRERAS, F. F. Razas caninas. *Buenos Aires. Cent. de Estud. de Med. Vet. Rev.* 17(25): 63-68. Jan./Mar. 1948. 41.9 B86

Greyhound, Borzoi, and Doberman Pinscher.

11435 COUCH, V. M. Spaniels and more Spaniels. *All-Pets Mag.* 19(10): 33, 34. Oct. 1948. 48.8 AL5

11436 DOGS worldwide. *Dog World* 33(12): 5, 6, 8, 10, 12. (To be cont.) Dec. 1948. 48.8 D672

Description of foreign breeds not recognized by the American Kennel Club.

11437 IRISH TERRIER CLUB OF AMERICA. A book of the breed. n. p., 1948. 98 p. 48 Ir4

11438 KENNEL CLUB. The Kennel Club calendar & stud book for the year 1947. v. 75. London, 1948. 940 p. 48.9 K39

11439 LITTLE, C. C. Genetics in Cocker Spaniels; observations on heredity and on physiology of reproduction in American Cocker Spaniels. *J. Hered.* 39: 181-185. June 1948. 442.8 Am3

11440 MILLINGTON, B. Alsations are intelligent dogs. *Smallholder* 80(2010): 22. Oct. 8, 1948. 10 Sm1

11441 MOORHOUSE, S. Pastores y sus perros, el Border Collie. *Nuestros Amigos* 5(49): 12-13. June 1948. 48.8 N88

11442 NATIONAL COURSING CLUB. The Greyhound stud book, established by the National Coursing Club, 1882. v. 67. Newcastle upon Tyne, Tyne printing works, 1948. 832 p. 48.9 L19G

11443 NOWICKI, H. About the Pom. *Dog World* 33(12): 158. Dec. 1948. 48.8 D672

11444 PARKS, J. O. The Golden [Retriever]-in retrospect and future. *Dog World* 33(12): 88. Dec. 1948. 48.8 D672

11445 STECK. Un chien a la mode: le Loulou de Pomeranie. *Courrier Hort.* 10: 549-550. Sept. 1948. 80 C834

## Feeds and Feeding

11446 PIRATININGA, S. N., and MIGLIANO, M. F. Avitaminosis in dogs and cats. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 3: 301-308. Ref. June 1948. 41.8 Sa6  
English summary.

## Veterinary Medicine

11447 BENNETT, L. L., GARCIA, J. F., and LI, C. H. Production of increased ketonemia in a normal dog by adrenocorticotrophic hormone. *Soc. Expt. Biol. & Med. Proc.* 69(1): 52-53. Oct. 1948. 442.9 S01

11448 BERRINGER, H. J. Die derzeit angezeigte staupetherapie mit besonderer berücksichtigung der prontosilverträglichkeit des hundes. *Tierärztl. Umschau* 2: 203-205. Sept. 1947. 41.8 T445

11449 BLOOD, D. C., and WHITEM, J. H. Congenital atelectasis of the lung in a cat. *Austral. Vet. J.* 24: 253-254. Sept. 1948. 41.8 Au72

11450 BLOOD, D. C. The "feline distemper" syndromes. *Austral. Vet. J.* 24: 250-251. Sept. 1948. 41.8 Au72

Discussion, p. 251-252.

11451 BODINGBAUER, J. Über prontosilvergiftungen beim hunde mit zum teil letalem ausgang. *Wiener Tierärztl. Monatsschr.* 34: 699-703. Nov. 1947. 41.8 T345

11452 BROOM, J. C., and MACINTYRE, A. B. A survey of canine leptospirosis in England. *Vet. Rec.* 60: 487-488. Ref. Oct. 9, 1948. 41.8 V641

11453 CARINI, A. Phases of extraerythrocytic development of a Piroplasma in the dog. (In Italian.) *Soc. Ital. di Biol. Sper. B.* 24: 247-250. Mar. 1948. 442.8 S012

11454 DEMPSEY, J., and SPRAGUE, J. M. A study of the distribution of sensory and motor fibers in the lumbosacral plexus and in the thoracic nerves of the cat. *Anat. Rec.* 102: 195-204. Ref. Oct. 1948. 447.8 An1

11455 DORDONI, F. On the effects of the morphine-apomorphine association in the dog. I-III. (In Italian.) *Soc. Ital. di Biol. Sper. B.* 24: 228-234. Mar. 1948. 442.8 S012

I. Vomiting, depression of the nervous system, and muscular hypotony. II. Apomorphine and hypertony from decerebration. III. Morphine and the rhombencephalic centers of muscular tonus.

11456 FERRANDO, R. Hérédité de l'anourie et de la brachyourie chez le chien. *Acad. Vét. de France. B.* 21: 299-300. July 1948. 41.9 R24

11457 FRIED, K. Affected creation of nomotope stimuli and its electrocardiographic picture in dogs. (In Czech.) *Casopis Českoslov. Vet.* 3: 638-642. Ref. Nov. 10, 1948. 41.8 C27

11458 FRIED, K. Electrocardiographic study of the effect of helvedrin upon the heart of a dog. (In Czech.) *Casopis Českoslov. Vet.* 3: 594-598. Oct. 25, 1948. 41.8 C27

11459 FRIED, K. The extracardial nervous system and its regulating the heart function of the dog seen by electrocardiography. (In Czech.) *Casopis Českoslov. Vet.* 3: 533-540. Ref. Sept. 25, 1948. 41.8 C27

11460 GRANA, A. DA. Semiologia ocular elemental en los carnívoros domesticos. *Buenos Aires. Cent. de Estud. de Med. Vet. Rev.* 17(25): 9-27. Jan./Mar. 1948. 41.9 B86

11461 HAZARD, R., BEAUVALLET, M., and GIUDICELLI, R. Comparaison des effets adrénolytiques de l'ergotamine chez le chien et chez le chat. *Soc. de Biol. Compt. Rend.* 142: 885-886. July 1948. 442.9 P21

11462 HSU, T. H., and HO, E. A. Canine leishmaniasis in Honan. Report on a case. *Chin. Med. J.* 66: 324. June 1948. 448.8 C44

11463 ISNARD, J. P. Faut-il vacciner les jeunes chiens? *Monde Paysan* 3(119): 2. Oct. 1, 1948. 14 M742

11464 JONES, E. W. Ovarohysterectomy in the bitch, with emphasis upon technique used in America. *Vet. Rec.* 60: 489-490. Oct. 9, 1948. 41.8 V641

11465 LEÃO, A. T., and EICHBAUM, F. W. Vermicidal activity of cashew oil (Anacardium occidentale) and derivatives. Experiments in dogs. (In Portuguese.) *Butantan. Inst. Mem.* 20: 13-30. 1947. 448.9 B97  
English summary.



- 11466 LEROY, G. V., NALEFSKI, L. A., and CHRISTY, H. W. The effect of certain sympatholytic agents on the coronary blood flow of the dog. (Abs.) J. Lab. & Clin. Med. 33: 1496. Nov. 1948. 448.8 J8233  
Tetraethylammonium bromide, N-(2-chloroethyl)dibenzylamine.
- 11467 LYON, M. D. Destacadas puntuaciones; las patas traseras del perro. Nuestros Amigos 5(50): 6-7, 40. July 1948. 48.8 N48
- 11468 MACINTYRE, A. B., TREVAN, D. G., and MONTGOMERIE, R. F. Observations on canine encephalitis. Croydon, Grubb, 1948. 4 p. 41.2 M182
- 11469 MALINGIEWICZ, C. Mild mercurous chloride poisoning in a dog. (In Polish.) Med. Wet. 4: 607-608. Oct. 1948. 41.8 M463  
English summary.
- 11470 MENRAD, D. Das staupegebiss. Kleintier-Zücht. Tierbörse 2(44): 9-11. Sept. 25, 1948. 49 K672  
Defective development of teeth in dogs.
- 11471 MERKLEN, F. P., BERTHAUX, P., and SABOURAUD, O. Action sur la glycémie du chien du mélange insuline-sang. Soc. de Biol. Compt. Rend. 142: 920-921. July 1948. 442.9 P21
- 11472 MOE, G. K., and MÉNDEZ, R. The action of several cardiac glycosides on excitability and conduction velocity in the dog heart. (Abs.) J. Lab. & Clin. Med. 33: 1491-1492. Nov. 1948. 448.8 J8233
- 11473 MOSS, N. H., SCHAFFER, R. L., and KIRBY, C. K. Anticoagulant effect of dicumarol at various prothrombin levels in dogs. Soc. Expt. Biol. & Med. Proc. 69(1): 143-145. Oct. 1948. 442.9 Sol
- 11474 NARASU, G. V. Sulphaguanidine in canine coccidiosis. Indian Vet. J. 25(1): 39. July 1948. 41.8 In2
- 11475 NEWELL, G. W., and others. Effect of feeding moderate levels of commercially agenzized flour to dogs. Soc. Expt. Biol. & Med. Proc. 69(1): 1-2. Oct. 1948. 442.9 Sol  
S. N. Gershoff, T. C. Erickson, W. E. Gilson, and C. A. Elvehjem, joint authors.  
Flour treated with nitrogen trichloride.
- 11476 OTTAVIANO, G. The action of bulbo-capnine on purine replacement in the dog. (In Italian.) Soc. Ital. di Biol. Sper. B. 23: 1123-1125. Dec. 1947. 442.8 Sol2
- 11477 PAIVA, O. M. Two cases of a. subclavia dextra as the last branch of the arcus aorticus in the dog. (In Portuguese.) São Paulo U. Facul. de Med. Vet. Rev. 3: 203-221. Ref. June 1948. 41.8 Sa6  
English summary.
- 11478 RIMPAU, W., and KALICH, J. Ueber canicola-leptospirose der hunde. Berlin. u. München. Tierärztl. Wochnschr. 1948: 29-31. Mar. 1948. 41.8 B45
- 11479 RONCATI, G. Primitive prickle-cell carcinoma of the scrotum of a cat. (In Italian.) Prog. Vet. 3: 125-127. Apr. 15, 1948. 41.8 P942
- 11480 RONCATI, G. Unusual case of myxosarcoma in the tail of a cat. (In Italian.) Nuova Vet. 24: 223-227. July 1948. 41.8 N922
- 11481 ROSEBERG, A. R. Rabies. Cocker Spaniel Visitor 10(9): 14-16. Sept. 1948. 48.8 C64
- 11482 SAXER, E. Beobachtungen über die infektiöse enzephalitis bei fuchs und hund. Schweiz. Arch. f. Tierheilk. 90: 565-583. Ref. Oct. 1948. 41.8 Sch9
- 11483 SCHULZE, W. Ein beitrage zur kasuistik der hodenverlagerungen beim hund. Berlin. u. München. Tierärztl. Wochnschr. 1948: 40-42. Apr. 1948. 41.8 B45
- 11484 SHEMIN, S. Posterior paralysis in a Cocker Spaniel. Vet. Med. 43: 541. Dec. 1948. 41.8 M69
- 11485 SODERBERG, P. M. La cola ondulada en los gatos. Nuestros Amigos 5(50): 11. July 1948. 48.8 N48
- 11486 SWARTZWELDER, J. C., and WICKER, H. E. Preliminary drug trials to determine anthelmintic activity against Trichocephalus vulpis in dogs. (Abs.) J. Parasitol. 34(6, sup.): 30. Dec. 1948. 448.8 J824
- 11487 SZCZUDŁOWSKA, M. Some skin diseases of the dog. (In Polish.) Med. Wet. 4: 541-545. Sept. 1948. 41.8 M463  
English summary.
- 11488 TELLER, H. Hodenvorfall nach bissverletzung bei einem hund. Berlin. u. München. Tierärztl. Wochnschr. 1948: 6. Jan. 1948. 41.8 B45
- 11489 VACCARI, I. Tuberculosis of dogs. (Review of some works appearing in recent years.) (In Italian.) Nuova Vet. 24: 84-88. (Concl.) Mar. 15, 1948. 41.8 N922
- 11490 VEENENDAAL, H. Colchicine treatment of papillomatosis of buccal mucosa in dogs. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 211-217. Ref. Apr. 1, 1948. 41.8 T431  
English summary.
- 11491 WARD, J. W., and REEDER, R. C. Incidence of Dirofilaria immitis, the dog heart worm, in dogs from Mississippi. (Abs.) J. Parasitol. 34(6, sup.): 35-36. Dec. 1948. 448.8 J824
- 11492 WEISMAN, S. A. Experimental studies on the combined action of digitalis (cedilanid) and quinidine (in cats). (Abs.) J. Lab. & Clin. Med. 33: 1493. Nov. 1948. 448.8 J8233
- 11493 WESTCOTT, W. J. Canine distemper. Cocker Spaniel Visitor 10(8): 14-15. Aug. 1948. 48.8 C64
- 11494 WINSSER, J. Kidney- and heart diseases in dogs. Some newer ideas. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 174-183. Ref. Mar. 15, 1948. 41.8 T431
- 11495 WINSSER, J., and OOSTROM, C. P. VAN. Salmonellosis in a dog. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 184-185. Mar. 15, 1948. 41.8 T431  
English summary.
- 11496 WIRTH, D. Lungenwurmkrankeheit des hundes. Wiener Tierärztl. Monatsschr. 34: 768-771. Dec. 1947. 41.8 T345

#### Miscellaneous

- 11497 BEACH, F. A. Dogs at the automat. Fauna [Philadelphia] 10: 85-87. Sept. 1948. 410 F27  
Psychology.
- 11498 BLACKISTON, E. How to train your dog. 6. Teaching him to come when called. Family Circle 33 (6): 18-19. Dec. 1948. 321.9 F21
- 11499 BROWN, W. F. Cómo educar perros de caza. Nuestros Amigos 5(50): 4-5. July 1948. 48.8 N48
- 11500 HUGH, E. About dogs. Amer. Family 1(10): 21. Nov. 1948. 324.8 Am3  
Care.
- 11501 LONDONER, D. J. A rose by any other name? Wagging Tail 3(4): 4-5. Sept. 1948. 48.8 W12  
Dog intelligence.
- 11502 ROSS, D. G. Los perros ovejeros en la Argentina. Chacra 18(216): 91. Oct. 1948. 9 C34
- 11503 WOODWARD, R., and WOODWARD, J. Another suggestion for a judging technique. Cocker Spaniel Visitor 10(9): 20-21. Sept. 1948. 48.8 C64

#### FUR ANIMALS - PEN RAISED

##### Breeds and Breeding

- 11504 DEDERER, M. What makes a mutation mink desirable. Black Fox Mag. 32(4): 11, 29. Aug. 1948. 410 B56
- 11505 EICHSTELLER, W. Zum thema "nutriafell." Deut. Pelztierzucht 22: 172-175. Oct. 15, 1948. 412.628 D48
- 11506 FRICK, H. Hochpolygame fuchszucht und ihre durchführung. Deut. Pelztierzucht 22: 191-195. Nov. 15, 1948. 412.628 D48
- 11507 GUNN, C. H. A program of improved methods of selection and breeding is urgently needed in the Canadian fox ranching industry. Fur Trade J. Canada 25(12): 18-19, 34, 36. Aug. 1948. 410 F965
- 11508 JOHANSSON, I. Viability in Platinum and White Face fox. (In Swedish.) Vara Pälsdjur 19: 275-277. Nov. 15, 1948. 410 V42
- 11509 LANGENFELD, A. L. Mutation mink—feast and famine! Natl. Fur News 20(10): 48, 110. Nov. 1948. 412.628 R59
- 11510 NATIONAL CHINCHILLA BREEDERS OF AMERICA. Ranch brands listed with the National Chinchilla Breeders of America, inc., up to July 1, 1948. Salt Lake City, 1948. 14 p. 412.62 N21
- 11511 REICHERT, E. Die neuzeitliche waschbärtierzuchtanlage. Deut. Pelztierzucht 22: 170-172. Oct. 15, 1948. 412.628 D48
- 11512 SPENCER, N. "Breeding mink to obtain size." Fur Trade J. Canada: 22, 24. Oct. 1948. 412.629 Am3M  
Also in Amer. Natl. Fur & Mkt. J. 27(5): 20. Dec. 1948.
- 11513 STEINEMANN, H. Der Perlfuchs. Österr. Kleintierzüchter 1948: 391-392. June 1948. 49 Os7
- 11514 STOCKNER, M. Where do we go from here? Amer. Fur Breeder 21(5): 6. Nov. 1948. 410 Am33  
Breeding mutation mink.



11515 SYMPOSIUM on chinchilla breeding. Natl. Chinchilla Breeder 4(9): 12, 14-16. Nov. 1948. 412.628 N21

#### Feeds and Feeding

- 11516 BASSETT, C. F., and WILKE, F. Comparison of poultry waste and horse meat. *Fur J.* 14(10): 26-27. Aug. 1948. 412.628 F969  
Also in *Canad. Silver Fox & Fur* 14(10): 8, 10. Oct. 1948. 412.62 C163; *Black Fox Mag.* 32(6): 21, 35. Oct. 1948. 410 B56
- 11517 BASSETT, C. F., and WILKE, F. Low meat diets for breeding foxes. *Canad. Silver Fox & Fur* 14(11): 18, 20. Nov. 1948. 412.62 C163  
Also in *Amer. Natl. Fur & Mkt. J.* 27(5): 15, 33-34. Dec. 1948. 412.629 Am3M
- 11518 BASSETT, C. F. The protein requirement of growing mink. *Fur Trade J. Canada*: 20-21. Oct. 1948. 410 F965  
Also in *Canad. Silver Fox & Fur* 14(10): 22, 24. Oct. 1948. 412.62 C163
- 11519 CLOSE, T. Mineral mistakes—vitamin vices. *Amer. Fur Breeder* 21(5): 20, 22, 24, 26, 28. (To be cont.) Nov. 1948. 410 Am33
- 11520 MULLER-LENHARTZ. Zur qualitativen ernährung der pelztier. *Deut. Pelztierzucht* 22: 179-180. Oct. 15, 1948. 412.628 D48
- 11521 WILKE, F., and BASSETT, C. F. The value of fat in the diet of growing mink. *Fur Trade J. Canada* 25 (12): 9, 44-45. Aug. 1948. 410 F965  
Also in *Fur J.* 14(10): 9. Aug. 1948. 412.628 F969

#### Veterinary Medicine

- 11522 CHADDOCK, T. T. Fatty degeneration of the liver in mink. *Fur J.* 14(10): 12-13, 24. Aug. 1948. 412.628 F969
- 11523 GIROLAMO, A. DE. The dentition of the coypu, *Myopotamus coypus*: morphology and structure. (In Italian.) *Zootec. e Vet.* 3: 192-202. Apr./May 1948. 41.8 Z7  
French and English summaries.
- 11524 GORDON, J. R. Suppurative nephritis [in mink] is not contagious. *Amer. Natl. Fur & Mkt. J.* 27(5): 22. Dec. 1948. 412.629 Am3M
- 11525 GORHAM, J. R., and QUORTRUP, E. R. Cancer condition is rare in fox & mink. *Fur J.* 14(12): 19. Oct. 1948. 412.628 F969
- 11526 GORHAM, J. R., and QUORTRUP, E. R. Carcinoma (cancer) of the skin in a mink. *Canad. Silver Fox & Fur* 14(10): 24. Oct. 1948. 412.62 C163  
Also in *Natl. Fur News* 20(10): 6. Nov. 1948. 412.628 R59
- 11527 GOTTBEBUT, A. H. Chinchilla talk: "cyst in the chinchilla." *Natl. Chinchilla Breeder* 4(8): 10. Oct. 1948. 412.628 N21  
Hydatidosis.
- 11528 HELGEBOSTAD, A. Deficiency diseases of mink. (In Norwegian.) *Norsk Pelsdyrbk.* 22: 299-302. Oct. 5, 1948. 412.628 N812
- 11529 KENNEDY, A. H. Autumn deaths on mink ranches. *Canad. Silver Fox & Fur* 14(11): 22-25. Nov. 1948. 412.62 C163
- 11530 KENNEDY, A. H. Studies on neurotropic distemper of foxes. VII. Blood examinations of foxes that showed varying symptoms of neurotropic distemper and recovered from the infection. *Canad. J. Compar. Med.* 12: 273-277. Oct. 1948. 41.8 C162
- 11531 KENNEDY, A. H. Watch your feed to avoid botulinus poisoning. *Black Fox Mag.* 32(6): 23, 42-44. (To be cont.) Oct. 1948. 410 B56  
In minks.
- 11532 KRUTULIS, J. J. More diseases and disorders in mink every year. *Amer. Natl. Fur & Mkt. J.* 27(5): 20-21. Dec. 1948. 412.629 Am3M
- 11533 MERKERT, R. Feststellen der trächtigkeit der sumpfbibermetze. *Deut. Pelztierzucht* 22: 176-177. Oct. 15, 1948. 412.628 D48
- 11534 POPPENSIEK, G. C. Life-savers. *Natl. Fur News* 20(10): 34, 91-93. Nov. 1948. 412.628 R59  
Prevention and control of mink diseases.
- 11535 WELSH, M., and others. Sulfonamide blood concentrations in foxes. *Vet. Med.* 43: 522-524. Ref. Dec. 1948. 41.8 M69  
P. H. Langer, R. L. Burkhart, C. R. Schroeder, and G. C. Poppensiek, joint authors.
- 11536 WESTERMARCK, H. Etiological and therapeutical experiences in treating abscesses in martens. (In Swedish.) *Finsk Vet. Tidskr.* 54: 371-373. Oct. 1948. 41.8 F49

#### Miscellaneous

- 11537 ASHBROOK, F. G. Nutrias grow in the United States. *Natl. Fur News* 20(9): 47-48, 50-51. (Concl.) Oct. 1948. 412.628 R59
- 11538 CALLBECK, G. A. A few pointers on fox pelting. *Canad. Silver Fox & Fur* 14(10): 24, 26-27. Oct. 1948. 412.62 C163
- 11539 CANADA. BUR. OF STATISTICS. AGRICULTURAL DIV. Report on the fur farms of Canada, 1946. Ottawa, 1948. 33 p. 412.629 C162F
- 11540 CHADDOCK, T. T. Keeping your [mink] herd alive. *Canad. Silver Fox & Fur* 14(10): 30-34. Oct. 1948. 412.62 C163
- 11541 DOUGLAS, W. O. Fisher farming. *Natl. Fur News* 20(10): 38, 109. Nov. 1948. 412.628 R59
- 11542 GARNER, F. T. Raising South American chinchillas in Iowa. VI. *Small Stock Mag.* 32(12): 22. Dec. 1948. 48.8 P442
- 11543 GOTTBEBUT, A. H. Coloring in chinchillas. *Natl. Chinchilla Breeder* 4(9): 9. Nov. 1948. 412.628 N21
- 11544 GRAEF, R. A. You should know about buying chinchillas. *Fur J.* 14(10): 6, 15. Aug. 1948. 412.628 F969
- 11545 MICHAELIS, W. L. Fundamentals of successful mink ranching. *Amer. Fur Breeder* 21(4): 81. (Cont.) Oct. 1948. 410 Am33
- 11546 OTT, G. L. UMPA-Great Lakes Ranch Service. *Natl. Fur News* 20(10): 47. Nov. 1948. 412.628 R59  
United Mink Producers Association.
- 11547 ROOS, P. Die kennzeichnung der sumpfbiber. *Deut. Pelztierzucht* 22: 202. Nov. 15, 1948. 412.628 D48
- 11548 SCHMIDT, F. Und wo bleibt die versuchsfarm? *Deut. Pelztierzucht* 22: 189-190. Nov. 15, 1948. 412.628 D48  
Fur-bearing animals.
- 11549 SCHWAB, G. R. Raising chinchillas in Canada. *Fur Trade J. Canada* 25(12): 16, 30, 32; 26(2): 14, 38. Aug., Oct. 1948. 410 F965
- 11550 SHELDON, W. B. Development of U. S. fur animal shows. *Natl. Fur News* 20(10): 28, 95-99. Nov. 1948. 412.628 R59
- 11551 SHELDON, W. B. Relative importance of the mink ranching industry in the various states of the United States. *Amer. Fur Breeder* 21(4): 58, 60. Oct. 1948. 410 Am33
- 11552 SHIPMAN, I. M. Chinchilla pelting techniques explained. *Natl. Chinchilla Breeder* 4(9): 5-7. Nov. 1948. 412.628 N21
- 11553 SVERIGES PÄLSDJURUPPFÖDARES RIKS-FÖRBUND. Report of the activities of Sweden's Fur Producers' National Association during the year 1/7 1947-30/6 1948. (In Swedish.) *Våra Pälsdjur* 19: 229-234. Sept. 15, 1948. 410 V42
- 11554 SVERRE, H. Record card for mink breeds. (In Norwegian.) *Norsk Pelsdyrbk.* 22: 336-337. Nov. 5, 1948. 412.628 N812

#### HORSES AND MULES

##### Breeds and Breeding

- 11555 ÅKERBLOM, E. Exhibition condition of young stallions. (In Swedish.) *Lantmannen* 32: 132-133. Feb. 21, 1948. 11 L234
- 11556 BERNARDINI, O. Artificial insemination in the Governativa di Persano horse. (In Italian.) *Risveglio Agr.* 7: 281-282. Aug. 15/31, 1948. 16 R49
- 11557 BERTONI, A. Artificial insemination of horses in the Friuli region and the control of the estrous cycle. (In Italian.) *Zootec. e Vet.* 3: 302-304. Apr./May 1948. 41.8 Z7
- 11558 BUCHLI, A. R. What type Quarter Horse? *Horse Lover* 13(3): 34-36. Oct./Nov. 1948. 42.8 H7852
- 11559 CANADIAN STANDARD BRED HORSE SOCIETY. The Canadian Standard Bred stud book. v. 6, pts. 1-5. Ottawa, Richardson, Bond & Wright, 1944/48. 151 p. 42.9 C165
- 11560 CAROLIS, V. DE. Fast horses. Pedigree of Saddle Horses in America. (In Italian.) *Allevamenti nel Mondo* 28: 124-125. May/June 1948. 49 AL56
- 11561 DE GELSEY, BARON. British breeding and its future. *Blood-Horse* 54: 500, 504. Nov. 20, 1948. 42.8 T392  
Thoroughbreds.



- 11562 DZIEDUSZYCKI, A. Lippizzaner horse. (In Polish.) *Przegl. Hodowlany* 16: 223-227. July 1948. 49 P952  
English summary.
- 11563 DZIEDUSZYCKI, A. Percherons. (In Polish.) *Przegl. Hodowlany* 16: 185-189. June 1948. 49 P952  
English summary.
- 11564 ESTEBAN, M. Elección del caballo semental. *Cooperación* 7(74): 8-9. Apr. 1948. 280.28 C7875
- 11565 FERRER PALAUS, J. Corolario de la 1.ª Exposición Regional Ganadera; qué caballo es mejor para Cataluña, el Bretón o el Belga? *Cám. Ofic. Sind. Agr. de Barcelona*. B. 3: 207-213. Aug. 1948. 15 C14
- 11566 GRABOWSKI, J. The summary of State establishments of horse breeding in Warsaw District for the first part of the year 1948. (In Polish.) *Przegl. Hodowlany* 16: 255-259. Aug. 1948. 49 P952
- 11567 HARLAND, H. State institutions for the breeding of horses. (In Polish.) *Med. Wet.* 4: 616-620. Oct. 1948. 41.8 M463  
English summary.
- 11568 HESSE, N. C. W. Hormone treatment of horses with Neo-Hombreol-Organon. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 231-232. Apr. 1, 1948. 41.8 T431  
English summary.
- 11569 LEON L., V. El caballo chileno de pedigree. *Agrario* 13(401): 4, 14; (402): 4, 16. Sept.-Oct. 1948. 9.3 Ag85
- 11570 LILJEFORS, E. The new army horse system a help to the breeding of hot-blooded horses. (In Swedish.) *Jordbrukarnas Föreningsblad*. Uppl. A: Östra Mellansverige och Gästrikland 17(50): 1, 11. Dec. 13, 1947. 11 J762
- 11571 NORWAY. STATENS STAMBOKKONTOR FOR HEST. Studbook for Dølehest. v. 30. mares No. 14894-15593. Born 1916-1939. Special edition 1948. Stallions No. 1687-1717. Foaled 1935-1944. (In Norwegian.) Oslo, 1948. 320, 17 p. 42.9 N83
- 11572 NORWAY. STATENS STAMBOKKONTOR FOR HEST. Studbook for Fjordhest. Special edition 1948. Stallions No. 1350-1384. Foaled 1942-1944. (In Norwegian.) Oslo, 1948. 14 p. 42.9 N83S
- 11573 NYE, N. C. The magnificent Palomino "Wonder Horse," Gold Tony, story of one of the world's best trained trick horses and his owner-trainer, Pat Henry. *Horse Lover* 13(3): 22-23, 59. 42.8 H7852
- 11574 O'CONNOR, P. The Arabian-horse of the future! *Horse Lover* 13(3): 12-13, 64. Oct./Nov. 1948. 42.8 H7852
- 11575 ORR, G. M. "Free and easy"—Tennessee Walking Horses offer smooth ride, gentle disposition. *West. Livestock J.* 27: 114-114. Nov. 15, 1948. 6 F2278
- 11576 PORTER, W. H. Working Quarter Horse of the West. *National Horseman* 84(10): 32-33, 108-109. Oct. 1948. 42.8 N21
- 11577 PRUSKI, W. The future of Polish horse breeding. (In Polish.) *Przegl. Hodowlany* 16: 177-183. June 1948. 49 P952  
English summary.
- 11578 ROSTAFIŃSKI, J. An experiment in applying constitutional indices in individual horse selection. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 201-211. 1948. 20.5 R59  
English summary.
- 11579 SANDERSON, C. J. Infertility in mares; interesting results from research in England. *Land [Sydney]* 1924: 18. Sept. 24, 1948. 23 L22
- 11580 SANDERSON, C. J. Points to remember in horse breeding. *Land [Sydney]* 1922: 24. Sept. 10, 1948. 23 L22
- 11581 SCHOLZ, U. Über weg und ziel der landeskleinpferdezucht. *Tierzucht* 2: 22-26. Feb. 1948. 49 T443
- 11582 SCHREUDER, P. J. VAN DER H. International trends in horse breeding. *Farmer's Weekly [Bloemfontein]* 76: 110-111, 113. Sept. 22, 1948. 24 F225
- 11583 SEFTON, D. J. Problems of a Thoroughbred breeding establishment. *Austral. Vet. J.* 24: 245-247. Sept. 1948. 41.8 Au72  
Discussion, p. 247-250.
- 11584 SHIRE HORSE SOCIETY. The Shire Horse stud book. v. 67/68. Lewes, Baxter, 1946/47. 101, 135 p. 42.9 Sh6S
- 11585 THOMAS, J. Rafter C Ranch Quarter Horses to race. *Horse Lover* 13(3): 31, 33. Oct./Nov. 1948. 42.8 H7852
- 11586 THOROUGHBRED BREEDERS' ASSOCIATION OF SOUTH AFRICA. The South African bloodstock breeders' review. An illustrated annual devoted to breeding and racing in South Africa. Johannesburg, 1947. v. 3, 188 p. 42.9 So82
- 11587 WENTWORTH, BARONESS. Can speed and stamina be combined? *Vet. J.* 104: 383-388. Nov. 1948. 41.8 V643  
Thoroughbred breeding.
- 11588 WOJDYŁO, P. The practitioners' point of view on methods of raising fecundity in mares. (In Polish.) *Med. Wet.* 4: 556-560. Sept. 1948. 41.8 M463  
Veterinary Medicine
- 11589 ACOSTA, L. La solución fenicada al 14 y su empleo en un caso de tetanos. *Rev. de Med. Vet. [Buenos Aires]* 30: 32-34. Jan./Mar. 1948. 41.8 B86  
In a horse.
- 11590 BARBOSA, D. DE M. Equine adenitis. (In Portuguese.) *Rev. Agron.* 12: 58-60. Apr./June 1948. 9.2 R325
- 11591 BAUMANN, R. Untersuchungen über die Nuttalliose der pferde in Griechenland. *Wiener Tierärztl. Monatsschr.* 34: 499-507. Oct. 1947. 41.8 T345  
Nuttallia equi, transmitted by ticks.
- 11592 BENESCH, F. Zur diagnose und behandlung des uteruskatarrhes steriler stuten. *Wiener Tierärztl. Monatsschr.* 34: 507-518. Oct. 1947. 41.8 T345
- 11593 BONOLDI, V., and ANDREASI, F. Notes on the applicability of the Benedict-Theis method for the determination of inorganic phosphorus in equine blood by Fisher's electrophotometer. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 3: 181-186. June 1948. 41.8 Sa6  
English summary.
- 11594 CAMACHO ARIÑO, L. Indigestiones y colicos en las caballerías. *Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg.* 9-48 H, 12 p. Apr. 1948. 15 H68
- 11595 CHWALIBOG, J. Epizootic lymphangitis in horses. (In Polish.) *Med. Wet.* 4: 589-594. Ref. Oct. 1948. 41.8 M463  
English summary.
- 11596 CONCAS, O. Epizootic lymphangitis in Sardinia. (In Italian.) *Nuova Vet.* 24: 124-125. Apr. 15, 1948. 41.8 N922  
In horses and mules.
- 11597 CORNEJO, P. M. Contribución al estudio de la botriomicosis. Un caso de "botriomicosis" de la lengua en un caballo. Estudio bacteriológico e inmunológico del botriococo aislado. *Rev. Grancolomb. de Zootec. Hig. y Med. Vet.* 2(1/3): 5-15. Ref. Jan./Mar. 1948. 41.8 R3253  
Also in *Rev. de Agr., Com. e Indus. [Panama]* 7(83): 18-23. July 1948. 8 R3291
- 11598 DOLL, E. R., WALLACE, M. E., and NEWTON, A. C. Serum level response of horses to procaine penicillin in oil and penicillin in oil and wax. *Vet. Med.* 43: 512-517. Dec. 1948. 41.8 M69
- 11599 ERRINGTON, B. J. Evolution of the horse (and of his unsoundness). *Thoroughbred of Calif.* 7(11): 16-17, 80. (To be cont.) Nov. 1948. 42.8 T393
- 11600 ESPOUY, F. Maladies consécutives á la mise-bas chez les poulinières. *Acclimatation* 75: 185. Sept. 4, 1948. 14 Ac2
- 11601 FAULL, G., and QUINLAN, J. B. Fatal, recurrent, massive epistaxis in a three-year-old Thoroughbred colt. *So. African Vet. Med. Assoc. J.* 19: 61-62. June 1948. 41.8 So8
- 11602 FETHERS, G. Lameness in horses. *Past. Rev.* 58: 945-946. (Cont.) Oct. 16, 1948. 23 Au75
- 11603 FORTNER, J. Die ansteckende blutarmut der einhufer in den impfstoffwerken. Berlin. u. München. *Tierärztl. Wochnschr.* 1948: 49-53. May 1948. 41.8 B45
- 11604 GAEDE. Verhütung von kolik bei der aufstallung von pferden. *Neue Mitt. f. die Landw.* 3: 396. Nov. 15, 1948. 18 N39
- 11605 GRATZL, E. Die pferdegrippe. *Wiener Tierärztl. Monatsschr.* 34: 566-579. Ref. Oct. 1947. 41 T345



- 11606 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Glanders and farcy. *Gt. Brit. Min. Agr. and Fisheries. Anim. Health Leaflet* 4, 3 p. 1948. 41.9 G792A
- 11607 HABACHER, F. Zur therapie der widerristfistel. *Wiener Tierärztl. Monatsschr.* 34: 599-613. Ref. Nov. 1947. 41.8 T345
- 11608 HARMS, F. Ungewöhnliche infektion mit *Bact. pyosepticum* [i.e. *Shigella equirulis*] beim fohlen. Berlin. u. München. *Tierärztl. Wochnschr.* 1948: 53-54. May 1948. 41.8 B45
- 11609 KRÖLLING, O. Zur anatomie des mittelfuss-skelettes bei den equiden. *Wiener Tierärztl. Monatsschr.* 34: 655-665. Ref. Nov. 1947. 41.8 T345  
Evolution of horses and related forms.
- 11610 LAFORTUNE, J. G. L'encastelure. *Forêt Québécoise* 13: 671-672. Nov. 1948. 99.8 F79  
Chiefly in horses.
- 11611 LARRIVA, R. DE. Estudio del caballo. Enfermedades contagiosas. *Nuestros Amigos* 5(50): 19. (Cont.) July 1948. 48.8 N48
- 11612 LASSERRE, R. Suites opératoires et complications de la castration chez les solipèdes. *Rev. de Méd. Vét. [Toulouse]* 99: 368-374. Aug./Sept. 1948. 41.8 R32
- 11613 LEONT'EV, I. F. Antibiotic which is effective against *Trypanosoma equiperdum*. (In Russian.) *Priroda* 37(4): 47. Ref. Apr. 1948. 41.0 P933  
Isolated from *Phycomyces*.
- 11614 LEVINE, P. Transplacental isoimmunization in horses. *J. Hered.* 39: 285-288. Ref. Oct. 1948. 442.8 Am3  
Genetic factors involved in the occurrence of jaundiced foals.
- 11615 MACEDO, L. T. DE. Technique of administration of the dimethylether of methylbebeerine, by the intravenous route; in the curarization of horses and cattle. (In Portuguese.) *Inst. Vital Brazil. B.* 5: 161-168. Apr. 1948. 448.9 In75B  
French summary.
- 11616 MAKŠIĆ, D. Die gefahr der übertragung der ansteckenden krankheiten des pferdes durch die nasenschlundsonde und deren entkeimung. *Tierärztl. Umschau* 2: 263. Nov. 1947. 41.8 T445
- 11617 MARTÍNEZ CAMPOS, C. La fenotiacina en el caballo de tiro. *Rev. Grancolomb. de Zootec. Hig. y Med. Vet.* 2(1/3): 16-35. Ref. Jan./Mar. 1948. 41.8 R3253  
For control of parasites.
- 11618 MAYER, L. Podophlegmatitis. (In Italian.) *Nuova Vet.* 24: 95-97. Mar. 15, 1948. 41.8 N922  
In horses.
- 11619 MEYN, A. Bemerkungen zur malleusdiagnose. *Tierärztl. Umschau* 2: 253-255. Nov. 1947. 41.8 T445
- 11620 MORPURGO, E. On the architecture of the spongy substance situated around the cavity of the acetabulum in *Equus caballus*. II. (In Italian.) *Nuova Vet.* 24: 183-187. June 1948. 41.8 N922
- 11621 NETTO, J. F. T., RIBEIRO, O. F., and RIBEIRO, I. F. About the icteric index and the fasting bilirubinaemia in equines. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 3: 187-194. June 1948. 41.8 Sa6  
English summary.
- 11622 NIZNANSKY, F., and JELENIKOVA, A. Glanders in Slovakia during 1921-1947. (In Czech.) *Časopis Českoslov. Vet.* 3: 587-594. Ref. Oct. 25, 1948. 41.8 C27  
In horses.
- 11623 PAULI, C. Über einen fall von fremdkörper-kolik beim pferde. *Tierärztl. Umschau* 2: 289-290. Dec. 1947. 41.8 T445
- 11624 PERL, E. Inversio vesicae bei der stute. Berlin. u. München. *Tierärztl. Wochnschr.* 1948: 16. Feb. 1948. 41.8 B45
- 11625 POMMER, A. Einfluss der Röntgenstrahlen-qualität und -intensität sowie der bestrahlungsmethode auf die toleranzdosis der haut bei pferden. *Wiener Tierärztl. Monatsschr.* 34: 676-699. Ref. Nov. 1947. 41.8 T345
- 11626 PUISSEGUR, J. A. Adenitis equina (paperas). *Arg. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino* 8(30): 27-30. Mar. 1948. 42.8 R32
- 11627 PUJATTI, O. On a focus of glanders associated with streptococcic infection. (In Italian.) *Nuova Vet.* 24: 158-162. May 15, 1948. 41.8 N922
- 11628 RADEK, W. Fibroma as an obstacle in the horse's utility. (In Polish.) *Med. Wet.* 4: 493-494. Aug. 1948. 41.8 M463
- 11629 ROBERTSON, A., and others. Observations on gastric decompression and intravenous saline administration in acute grass disease. *Vet. Rec.* 60: 495-498. Oct. 16, 1948. 41.8 V641  
J. W. Burgess, J. S. S. Inglis, and H. Paver, joint authors.  
In horses.
- 11630 RUSIECKI, E. Zinc phosphide poisoning in a horse. (In Polish.) *Med. Wet.* 4: 606-607. Oct. 1948. 41.8 M463  
English summary.
- 11631 SHUTTLEWORTH, A. C. Dental diseases of the horse. *Vet. Rec.* 60: 563-565. Nov. 6, 1948. 41.8 V641  
Discussion, p. 565-567.
- 11632 SOLIS, J. A. Some studies and observations on [equine] epizootic lymphangitis. *Indian Vet. J.* 25(1): 1-14. July 1948. 41.8 In2
- 11633 STURA, C. A. Métodos directos de laboratorio aplicados al diagnóstico diferencial y pronóstico del mal de caderas. 2. *Gac. Vet.* 10: 156-170. July/Aug. 1948. 41.8 G112
- 11634 SUMNER, H. Equine accidents in the fields of sport. *Vet. Rec.* 60: 579-581. Nov. 13, 1948. 41.8 V641  
Discussion, p. 581-585.
- 11635 TODD, A. C., and HANSEN, M. F. Comparative fertility of strongylid eggs passed by horses. (Abs.) *J. Parasitol.* 34(6, sup.): 29. Dec. 1948. 448.8 J824
- 11636 VILLANUEVA, J. Secreción láctea en una mula. *Ceres [Valladolid]* 13(147): 42-43. Sept. 1, 1948. 15 C33
- 11637 WARD, J. W. Quantitative studies on nematode parasites of horses and mules. (Abs.) *J. Parasitol.* 34(6, sup.): 36. Dec. 1948. 448.8 J824
- 11638 WEISCHER, F. Verhütung einer hohlen wand als folge der hufknorpelfisteloperation nach möller-Frick. Berlin. u. München. *Tierärztl. Wochnschr.* 1948: 31-32. Mar. 1948. 41.8 B45
- 11639 WESTHUES, M. Experimenteller beitrage zur blutigen und unblutigen kastration des pferdes. Berlin. u. München. *Tierärztl. Wochnschr.* 1947: 125-131. Nov. 1947. 41.8 B45
- 11640 WIRSTAD, H. F. On tendinitis and its treatment. (In Norwegian.) *Finsk Vet. Tidsskr.* 54: 353-370. Oct. 1948. 41.8 F49  
In horses.

#### Miscellaneous

- 11641 AMESTI, L. DE. Capitanes de caballos del siglo XVI y exportación de caballos chilenos. *Campesino [Santiago]* 80(8): 33-34. Aug. 1948. 9.3 So12
- 11642 CAMACHO, J. M., and JORDANO, D. Arte, historia y literatura de la ganadería en el IV centenario del nacimiento de Cervantes. *Cosas de Rocinante, el rucio- y Clavileño. B Zootec* 4: 171-182. June 1, 1948. 41.9 S016
- 11643 CUEVAS GARCÍA, E. Doma y adiestramiento del caballo criollo de paso. *Ganado* 2(9): 23. Aug. 1948. 49 G153
- 11644 FERRER PALAUS, J. Del garañón catalán. *Ceres [Valladolid]* 13(147): 36-37, 39. Sept. 1, 1948. 15 C33
- 11645 FOREMAN, M. Horse handling science. *Curing breaking at the poll. Cattleman* 35(7): 90. Dec. 1948. 49 C29
- 11646 FRIEDRICH, Die hufbeschlagfrage. *Tierärztl. Umschau* 2: 208-210. Sept. 1947. 41.8 T445
- 11647 JUNQUEIRA, J. F. D. The unruly mule. (In Portuguese.) *Chacaras e Quintais* 78: 311-312. Sept. 15, 1948. 9.2 C34
- 11648 LOMNITZ-WALDHOF. Das kleinpferd in der landwirtschaft. *Kurzbriefe f. Ernähr. u. Landw.* 2: A III 16, 4 p. (To be cont.) Feb. 1948. 281.8 K96
- 11649 MCCANN, P. Some easy fundamentals in riding and training. *Horse Lover* 13(3): 16-17. Oct./Nov. 1948. 42.8 H7852
- 11650 PRUSKI, W. Historical review of the hippological press in France, Austria, Poland, and U. S. S. R., 1823-1948. (In Polish.) *Przegl. Hodowlany* 16: 185-197; 227-229; 259-261. June-Aug. 1948. 49 P952
- 11651 RYDÅ, K. Do all draft horses need shoes? (In Swedish.) *Lantmannen* 32: 713. Oct. 23, 1948. 11 L234
- 11652 SALCES, F. El fomento equino en nuestro país y en el ejército. *Arg. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino* 8(30): 11-26. (Cont.) Mar. 1948. 42.8 R32



- 11653 STEGER, G. Mitteilungen zum koppen. Tierärztl. Umschau 2: 45-50. (To be cont.) Mar. 1947. 41.8 T445
- 11654 TIERSTEIN, V. Watch foal's feet—regular and exacting hoof care becomes necessary for proper mature development. West. Livestock J. 27: 122-124. Nov. 15, 1948. 6 F2278
- 11655 VICTORIA. DEPT. OF AGRICULTURE. VETERINARY STAFF. Estimating a horse's age; the teeth as a guide. Victoria. Dept. Agr. J. 46: 445-448. Oct. 1948. 23 V66J
- 11656 WOLFER, R. Gehört der hufbeschlagnach zum aufgabengebieten des tierarztes? Tierärztl. Umschau 2: 210. Sept. 1947. 41.8 T45

## LABORATORY ANIMALS, SMALL

## Breeds and Breeding

- 11657 COUCH, V. M. Breeding cavy and hamsters. Amer. Rabbit J. 18: 141. Oct. 1948. 40.28 Am3
- 11658 HEUSER, O. Das meerschweinchen, seine zucht und pflege. Österr. Kleintierzüchter 1948: 397. June 1948. 49 Os7

## Miscellaneous

- 11659 MARUYAMA, G. M., and PHILLIPS, P. H. Reproduction and lactation studies with rats fed natural and purified rations. J. Nutr. 36(5): 613-623. Ref. Nov. 10, 1948. 389.8 J82

## POULTRY

## Breeds and Breeding

- 11660 ALEXANDER, A. K. S. Wise use of pedigree males. Farmer & Stock-Breeder 62: 2615. Nov. 9, 1948. 10 F228
- Poultry.
- 11661 ARCHES, M. D? Aimez-vous les foies gras? elevez des mulards. Monit. Agr. 1(42): 4. Oct. 31, 1948. 14 M744
- 11662 ASMUNDSON, V. S. Inherited differences in weight and conformation of Bronze turkeys. Poultry Sci. 27: 695-708. Ref. Nov. 1948. 47.8 Am33P
- 11663 BLACKWELL, H. L. Don't try to use genetics as a "bludgeon." Mod. Poultry Keeping 59: 508-509. Nov. 17, 1948. 47.8 Eg3
- 11664 BRILES, W. E., and MCGIBBON, W. H. Heterozygosity of inbred lines of chickens at two loci effecting cellular antigens. (Abs.) Genet. Soc. Amer. Rec. 17: 32. 1948. 442.9 G28
- 11665 BROOKS, T. Breeding stock should be given "a rest cure." Mod. Poultry Keeping 59: 534-535. Nov. 24, 1948. 47.8 Eg3
- 11666 CAMPELLO, L. B. The world of fighting cocks in the Canary Islands. (In Portuguese.) Chacaras e Quintais 78: 437-439. Oct. 15, 1948. 9.2 C34
- Breeds.
- 11667 CARTE T., E. La Leghorn Blanca, reina de ponedoras. Rev. Ganad. [Habana] 8(11): 20-21. Nov. 1948. 49 R321
- 11668 CHARTERIS, R. L., and WATANABE, Y. Value of inbreeding in producing layers. Poultry [London] 103: 272; 294. Oct. 5-12, 1948. 47.8 P869
- Summary of paper given at World's Poultry Congress, Copenhagen.
- 11669 CHRISTENSEN, A. Zuchtarbeit und ihre organisation in Dänemark. Geflügelhof 11: 704-705. Nov. 5, 1948. 47.8 G276
- 11670 DAVEY, A. D. The contribution of breeding to Canada's poultry program. Canad. Poultry Rev. 72(11): 25-27, 29. Nov. 1948. 47.8 C16
- 11671 DIBBS, H. Rhode Islands in Australia. Victorian Poultry J. 34(10): 61. May 1, 1948. 47.8 V662
- 11672 DOMINGUES, O. Commercial poultry breeding. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 340-341. Sept./Oct. 1948. 9.2 R324
- 11673 ELLIOT, T. A conditioning course for the breeding stock. Mod. Poultry Keeping 59: 562-563. Dec. 1, 1948. 47.8 Eg3
- 11674 FERRAND, R. H., JR., and BOHREN, B. B. The effect of carotenols on fertilizing capacity of fowl sperm. Poultry Sci. 27: 759-769. Ref. Nov. 1948. 47.8 Am33P
- 11675 FINSTERBUSCH, C. A. Orientals: Game fowl of the East. Tracing the history of ancient strains, the fountainheads of modern fowl and development from naked heels to slasher and gaffs fighting. Grit & Steel 50(7): 41-47. Nov. 1948. 47.8 G88

- 11676 GORDON, C. D. The U. S. Department of Agriculture Columbian chicken. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 152-153. 1948. 4 C82
- 11677 GUERANDE, C. Faut-il sélectionner nos races françaises uniquement vers la ponte? Rustica 21: 524. Aug. 1, 1948. 14 R92
- 11678 GUERANDE, C. Leghorn contre Rhode-Island. Rustica 20: 19. Jan. 12, 1947. 14 R92
- 11679 GUERANDE, C. La poule Langshan, son origine, ses avantages, son avenir. Rustica 21: 784. Nov. 7, 1948. 14 R92
- 11680 GUERANDE, C. La Rhode-Island. Rustica 21: 726, 731. Oct. 10, 1948. 14 R92
- 11681 HAGEDOORN, A. L. The nucleus system of breeding. Poultry Farmer [Sydney] 16(16): 9-10. Oct. 16, 1948. 280.28 Or32
- Also in Poultry Farmer [London] 119(3095): 4. Oct. 29, 1948. 47.8 F312
- 11682 HAFELL, E. Die dänischen Orpingtons an der ausstellung anlässlich des VIII. Welt-Geflügelkongresses in Kopenhagen. Geflügelhof 11: 606-607. Sept. 24, 1948. 47.8 G276
- 11683 HEPBURN, J. M. Indian Game fowl popular for crossing to produce high quality table birds. Austral. Farm & Home 57(9): 88. Sept. 1948. 23 Au7
- 11684 HEPBURN, J. M. Quality English table poultry: Dorking is one of the oldest breeds, but is still in high favor with poultry fanciers. Austral. Farm & Home 57. (10): 94, 97. Oct. 1948. 23 Au7
- 11685 HOFFMANN, E., and BELL, J. C. Broiler-breeding and testing project. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 153-155. 1948. 4 C82
- 11686 HOFFMANN, E. Broilers—breeding and testing project. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 43-45. 1947. 47.9 G2 A
- 11687 HOFFMANN, E. The development of a Columbian crossbred for broiler production. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 10-12. 1947. 47.9 G29A
- 11688 HOFFMANN, E. Differences in broiler characteristics within and among breeds. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 30-31. 1947. 47.9 G29A
- 11689 HOWES, H. Start now to collect the breeding stock. Poultry [London] 103: 293. Oct. 12, 1948. 47.8 P869
- 11690 HUTTON, J. Bantam keeping costs. Poultry [London] 103: 295. (To be cont.) Oct. 12, 1948. 47.8 P869
- 11691 JEUDE, L. Warum denn gerade Minorka? Kleintier-Zücht. Tierbörse 2(43): 2-3. Sept. 10, 1948. 49 K672
- 11692 KING, D. F., and COTTIER, G. J. Comparisons of Leghorn strains under contaminated conditions. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 156-157. 1948. 4 C82
- 11693 KISH, A. F. Meat and eggs from the same bird. Del. Poultry Handb. 3: 20-21. 1948. 47.9 D37
- Poultry breeding.
- 11694 KISH, A. F. Some observations of hatch of fertile eggs from Barred Plymouth Rocks. Poultry Sci. 27: 831-832. Nov. 1948. 47.8 Am33P
- 11695 LINKE-CRAWFORD, E. Ostereierhühner. Österr. Kleintierzüchter 1948: 469. Nov. 1948. 49 Os7
- Breeding of Araucana.
- 11696 MARSDEN, S. How and why of breeder selection. An expert outlines points to observe, techniques for fast work, and tells how to forecast grade. Turkey World 23(11): 14-15, 70-74, 76. Nov. 1948. 47.38 T84
- 11697 MERRITT, P. The "new look" in Thanksgiving turkeys. Reclam. Era 34: 205-206. Nov. 1948. 156.84 R24
- Beltville Small White.
- 11698 MOORE, A. C. My turkey eggs are over 90 per cent fertile. Poultry [London] 103: 310. Oct. 19, 1948. 47.8 P869
- 11699 MUNRO, S. S. New co-op Leghorns mean more profit dollars in poultry business of future. II. Co-op Chick News 19(10): 8-9. Oct. 1948. 47.8 C782
- 11700 MÜNSTER, H. Die Strassertaube. Österr. Kleintierzüchter 1948: 460. Oct. 1948. 49 Os7
- 11701 MÜNSTER, W. Rebhuhnfarbige Italiener. Kleintier-Zücht. Tierbörse 2(44): 2-3. Sept. 25, 1948. 49 K672
- 11702 NIKERL, A. Österreichische geflügelrassen. Österr. Kleintierzüchter 1948: 451-452; 465-466. Oct.-Nov. 1948. 49 Os7
- Address given at World's Poultry Congress, Copenhagen.



- 11703 NORAHER, J. Die idealfarbe bei farbigen rassen. Geflügelhof 11: 705-706. Nov. 5, 1948. 47.8 G276
- 11704 NORDSKOG, A. W. Periodical trapnesting and family selection for egg production. Poultry Sci. 27: 713-718. Nov. 1948. 47.8 Am33P
- 11705 PEASE, M. What's new in the auto-sexing breeds? Mod. Poultry Keeping 59: 420-421. Oct. 27, 1948. 47.8 Eg3
- Silver Legbar and Brussbar.
- 11706 PEELE, F. E. Choosing turkey breeders. Mod. Poultry Keeping 59: 431. Oct. 27, 1948. 47.8 Eg3
- 11707 POWELL-OWEN, W. Case for older males. Poultry World 83: 334. Nov. 12, 1948. 47.8 P8682
- Tested sires vs. this year's cockerels.
- 11708 POWELL-OWEN, W. Early and late moulters; breeding hens which already have their new plumage should be mated as quickly as possible. Poultry World 83: 301. Oct. 29, 1948. 47.8 P8682
- 11709 POWELL-OWEN, W. Typical weights for Reds; growing males which make slightly over 1 lb monthly are likely to reach good size at maturity. Poultry World 83: 259. Oct. 15, 1948. 47.8 P8682
- 11710 PREVO, A. A. Study of turkey breeds in U. S. S. R. (In Russian.) Moskov. Ordena Lenina Sel'sko-khoz. Akad. im. K. A. Timirfazeva. Dok. 7: 169-173. 1948. 20 M857
- 11711 QUINN, J. P. Select and breed to produce top quality eggs. Md. State Poultry Council. Proc. 1947: 17-20. 1948. 47.9 M36P
- 11712 RADFORD, F. W. Belgian Bantams. All-Pets Mag. 19(10): 52-53. Oct. 1948. 48.8 AL5
- 11713 RICE, S. A. This breed [Dark Cuckoo Marans] lays brick red eggs. Poultry [London] 103: 273. Oct. 5, 1948. 47.8 P869
- 11714 RINGROSE, A. T. Progeny testing New Hampshire males for rate of feathering. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 157-158. 1948. 4 C82
- 11715 SCHEIDING, C. Die entstehung der zwerghühner. Geflügelhof 11: 699-702. Nov. 5, 1948. 47.8 G276
- 11716 SCHMIDTHUBER, K. Schwarze zwerge. Osterr. Kleintierzüchter 1948: 453. Oct. 1948. 49 Os7
- Poultry.
- 11717 SCHNETZLER, E. E. Hybridization in poultry; a paper on crossing and inbreeding with idea of improving fowls in different ways. Game Fowl News 24(9): 1-8. Nov. 1948. 47.8 G143
- 11718 SINGER, R. Die Wyandottes und Rhode Island und der ausstellung in Kopenhagen anlässlich des 8. Weltgeflügelkongresses. Geflügelhof 11: 675. Oct. 22, 1948. 47.8 G276
- 11719 URI, D. The standard of breeding-flocks at the prize poultry farms. (In Hebrew.) Hassadeh 28: 525-526. Sept. 1948. 26 H27
- 11720 VERSTEEG, H. Un pigeon peu connu: le "Diamant de Damas." Courrier Hort. 10: 611. Oct. 1948. 80 C834
- 11721 VRIES, G. DE. Anconas. (In Flemish.) Pluimvee 2: 197. May 1948. 47.8 P72
- 11722 VRIES, G. DE. Poultry breeds in the Netherlands. (In Flemish.) Pluimvee 2: 108. Feb. 1948. 47.8 P72
- 11723 WALTER, C. E. Die Leghorns und ihre farbenschläge. Féd. des Avic. du Haut-Rhin, Bas-Rhin et Moselle. B. Mens. 1948: 61. July 1948. 47.9 F312
- 11724 WALTER, H. H. Allgemeine grundsätze der zucht; betrachtungen zu diesem artikel von F. Hoffmann. Osterr. Kleintierzüchter 1948: 467-468. Nov. 1948. 49 Os7
- Poultry.
- 11725 WALTER, J. W., and HOFFMAN, E. Comparison of hatchability and fertility among Broad Breasted Bronze and Beltsville Small White turkeys and their reciprocal crosses. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 24-25. 1947. 47.9 G29A
- 11726 WARE, B. Brown eggs from Barneys. Poultry Farmer [London] 119(3094): 14. Oct. 22, 1948. 47.8 F312
- 11727 WHITTLE, T. E. Family performance is best guide to production. Poultry [London] 103: 285. Oct. 12, 1948. 47.8 P869
- 11728 WHITTLE, T. E. Notes for the poultry breeder; some lessons from the World's Poultry Congress. Scot. Farmer 56: 1303. Oct. 30, 1948. 10 Sco8
- 11729 WILEY, W. H. Sex linking of chicks explained. Co-op. Poultryman 13(12): 8. Dec. 1948. 280.28 C7843
- 11730 WILSON, W. O. Egg production rate and fertility in inbred chickens. Poultry Sci. 27: 719-726. Ref. Nov. 1948. 47.8 Am33P
- 11731 WILSON, W. O. Viability of embryos and of chicks in inbred chickens. Poultry Sci. 27: 727-735. Ref. Nov. 1948. 47.8 Am33P
- 11732 WOLFE, D. M. The Cornish Bantam. Bantam Mag. 8(3): 4-5. Oct. 1948. 47.8 B22
- Feeds and Feeding
- 11733 ALEXANDER, A. K. S. Grain alone is not enough; suggestions for growing or getting the protein needed to balance. Farmer & Stock-Breeder 62: 2675. Nov. 16, 1948. 10 F228
- Poultry feeding.
- 11734 BELL, J. C. Feed comparison test: the comparative values of oats, wheat, and cracked corn in the ration when fed with a twenty percent protein broiler mash and a twenty-seven percent protein concentrate to New Hampshire chickens from the sixth to twelfth week inclusive. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 38-39. 1947. 47.9 G29A
- 11735 BELL, J. C. Sweet potato meal compared with ground yellow corn in all-mash laying rations. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 7-9. 1947. 47.9 G29A
- 11736 BERG, L. R. Hens need proper nutrition for high quality egg shell. West. Feed & Seed 3(7): 8, 10. Sept. 1948. 389.78 W52
- 11737 BIELINSKI, K., BIELINSKA, K., and KIELANOWSKI, J. Essay on compulsory fattening of geese with barley paste. (In Polish.) Przegl. Hodowlany 16: 211-215. July 1948. 49 P952
- English summary.
- 11738 BONDI, A., and ETtinger, R. The amount of pantothenic acid in poultry feeds. (In Hebrew.) Hassadeh 28: 527-528. (Concl.) Sept. 1948. 26 H27
- 11739 BOYD, J. E. Pastures for poultry. Dakota Farmer 68(22): 10. Nov. 20, 1948. 6 D14
- 11740 BUTTNER, E. E. Digestibility experiments. All-Pets Mag. 19(10): 55, 57. Oct. 1948. 48.8 AL5
- Pigeons.
- 11741 BUTTNER, E. E. Is the phosphorus in grains unavailable? So. African Poultry, Pigeon & Bird Mag. 73(441): 33. Oct. 1948. 47.8 So83
- 11742 CAPPER, A. One man farming. 5. Poultry Farmer [London] 119(3099): 4. Nov. 26, 1948. 47.8 F312
- Chicks feeding on grass.
- 11743 CARD, L. E. Recent work on the use of soybean meal in poultry feeding. Ill. Agr. Col. Ext. AG1348, p. 23-24. Dec. 30, 1947. 275.29 IL62Pag
- 11744 CARRICK, C. W. Consider vitamins and minerals when planning poultry rations. West. Farm Life 50(22): 37. Nov. 15, 1948. 6 R153
- 11745 CARRICK, C. W. What should go in the feed bag? Poultry Comment 5(4): 1, 4. Sept. 1948. 47.8 D92
- 11746 CASSAMAGNAGHI, F. Alimentos y alimentación; principios generales aplicables a la alimentación de las aves. Uruguay. Dir. de Agron. P. 94, 16 p. Montevideo, 1948. 9.9 Ur84
- 11747 COOLEY, M. L., and CHRISTIANSEN, J. B. Stability of choline in feed mixtures. Poultry Sci. 27: 822-823. Nov. 1948. 47.8 Am33P
- 11748 COONEY, W. T., BUTTS, J. S., and BACON, L. E. Alfalfa meal in chick rations. Poultry Sci. 27: 828-830. Nov. 1948. 47.8 Am33P
- 11749 DRAPER, C. I. Alfalfa meal in diet of the chick. Grain & Feed J. Consolidated 101(11): 37. Dec. 8, 1948. 298.8 G762
- 11750 FERGUSON, C. M., JONES, E., and DODD, D. R. Pastures for poultry; a home-grown vitamin program for Ohio poultrymen. Ohio. Agr. Col. Ext. B. 269, rev., 4 p. Apr. 1948. 275.29 Oh32
- 11751 FLEURY, F. Coup de barre vers l'engraisement des chapons. Avic. Québécois 3(7): 4-7. July 1948. 47.8 Av55
- 11752 FRAUSANNA, F. Milk by-products in poultry nutrition. (In Italian.) Allevamenti nel Mondo 28: 133. (To be cont.) May/June 1948. 49 AL56
- 11753 GÁLLEGO PIEDRAFITTA, J. El manganeso en avicultura. Ceres [Valladolid] 13(147): 35-36. Sept. 1, 1948. 15 C33



- 11754 GERMAN, H. L., JAMES, L. E., and SHERWOOD, R. M. Preliminary studies on the value of condensed fish solubles in poultry rations. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 150-151. 1948. 4 C82
- 11755 GRANGE, C. A 4lb. light breed hen and her food needs. *Smallholder* 80(2015): 17. Nov. 12, 1948. 10 Sm1
- 11756 GRANGE, C. Good start to laying: then a dwindle down. *Smallholder* 80(2012): 16. Oct. 22, 1948. 10 Sm1
- Possible causes including underfeeding.
- 11757 GROSCHKE, A. C., ANDERSON, J. O., and BRIGGS, G. M. Amino acid imbalance of zein: relation to nicotinic acid deficiency in the chick. *Soc. Expt. Biol. & Med. Proc.* 68: 564-566. Ref. July/Aug. 1948. 442.9 Sol1
- 11758 HALL, M. D. Poultry feeding tests at the State Research Farm at Werribee. *Poultry Farmer [Sydney]* 16(11): 13-14. Sept. 11, 1948. 280.28 Or32
- 11759 HALNAN, E. T. Emergency poultry feeding. *Gt. Brit. Min. Agr. and Fisheries, Growmore B.* 5, 12 p. 1948. 10 G79Gro
- 11760 HALNAN, E. T. The scientific principles of poultry feeding. *Gt. Brit. Min. Agr. and Fisheries. B.* 7, 91 p. Ref. London, 1948. 10 G794B
- 11761 HOFFMANN, E., and POITVENT, L. A comparison of pelleted and unpelleted all-mash ration for growing broilers. *Ga. U. Col. Agr. Ann. Rpt. Poultry Res.* 1946/47: 41-42. 1947. 47.9 G29A
- 11762 HØIE, J. Digestive experiments with poultry. (In Norwegian.) *Norges Landbrukshøgsk. Meld.* 28: 399-418. 1948. 104 N762M
- 11763 HOLMES, G. Home food plans. The best crops to concentrate upon. *Mod. Poultry Keeping* 59: 427. Oct. 27, 1948. 47.8 Eg3
- 11764 HOUT, F. VAN. The chief problem in poultry keeping. *Judicious feeding of layers.* 3. (In Flemish.) *Cult. en Handel* 14: 181. Mar. 1948. 80 C892
- 11765 HOWES, H. Intensively-kept layers need a special scale of feeding. *Smallholder* 80(2013): 16. Oct. 29, 1948. 10 Sm1
- 11766 KULL, K. E. Manganese sulphate and horn meal for feather-eating. *Poultry [London]* 103: 272. Oct. 5, 1948. 47.8 P869
- Caused by deficiency in ration.
- 11767 LANGDON, J. L. Warm water for more egg production in winter. *Farmers Fed. News* 29(4): 13. Dec. 1948. 280.28 F225
- 11768 LATHAM, J. O. Hormones for fattening. *Mod. Poultry Keeping* 59: 333. Oct. 6, 1948. 47.8 Eg3
- Feeding stilbestrol.
- 11769 LODGE, C. Don't overdo greens. *Poultry Farmer [London]* 119(3099): 10. Nov. 26, 1948. 47.8 F312
- 11770 MANN, T. B. An experiment in picking and choosing. *Poultry Farmer [London]* 119(3094): 7. Oct. 22, 1948. 47.8 F312
- Feeding and egg production.
- 11771 MARGOLF, P. C. Better birds on less feed through good pastures. *Md. State Poultry Council. Proc.* 1948: 32-33. 1948. 47.9 M36P
- 11772 MEYER, O. J. Vitamin tests. (In Dutch.) *Pluimvee* 2: 110-113. Feb. 1948. 47.8 P72
- In poultry nutrition.
- 11773 MONTAGNA, A. Formulae for poultry feeding. (In Italian.) *Allevamenti nel Mondo* 28: 136-137. May/June 1948. 49 AL56
- 11774 NEWELL, M. E. New broiler feed improvements predicted at Texas conference. *Feedstuffs* 20 (45): 10-11, 14-15, 50-51. Nov. 6, 1948. 286.81 F322
- 11775 OHIO. POULTRY FEED CONFERENCE BOARD. Ohio poultry rations, 1948. *Ohio. Agr. Col. Expt. Poultry Pointers* 96, 8 p. Dec. 1947. 275.29 Oh32Pp
- 11776 RAIMO, H. F. Practical aspects of poultry nutrition. (In Portuguese.) *Rev. dos Criadores* 19(6): 98-100. June 1948. 43.8 R32
- 11777 ROBERTSON, E. I., MILLER, R. F., and HEUSER, G. F. The relation of energy to fiber in chick rations. *Poultry Sci.* 27: 736-741. Ref. Nov. 1948. 47.8 Am33P
- 11778 SARASQUETA, P. A. DE. La alimentacion avícola en sus diversos aspectos. *Buenos Aires. U. Facul. de Agron. y Vet. B.* 25, 94 p. Ref. 1948. 9 B8634
- 11779 SCHWEIGERT, B. S. Availability of tryptophan from various products for growth of chicks. *Arch. Biochem.* 19: 265-272. Ref. Nov. 1948. 381 Ar2
- 11780 SCOTT, M. L., HEUSER, G. F., and NORRIS, L. C. Energy, protein and unidentified vitamins in poultry nutrition. *Poultry Sci.* 27: 773-780. Nov. 1948. 47.8 Am33P
- 11781 SCOTT, M. L., HEUSER, G. F., and NORRIS, L. C. Studies in turkey nutrition using a purified diet. *Poultry Sci.* 27: 770-772. Nov. 1948. 47.8 Am33P
- 11782 SEEGER, K. C. Feeding the "Chicken-of-Tomorrow." *Poultry Comment* 5(4): 3. Sept. 1948. 47.8 D92
- 11783 SERFONTEIN, P. J. The feeding of poultry during the war. *Farming So. Africa* 23: 560-569. Aug. 1948. 24 So842
- 11784 SKOGLUND, W. C. What's new in poultry nutrition. *Del. Poultry Handb.* 3: 14. 1948. 47.9 D37
- 11785 SOUTHWELL, B. L., DILLARD, G. K., and BELL, J. C. Peanuts compared with mash and grain as a feed for growing and finishing turkeys. *Ga. U. Col. Agr. Ann. Rpt. Poultry Res.* 1946/47: 26-29. 1947. 47.9 G29A
- 11786 SQUIRES, G. A. I rear autumn chicks without mash. *Poultry Farmer [London]* 119(3099): 9. Nov. 26, 1948. 47.8 F312
- 11787 TEMPERTON, H., and DUDLEY, F. J. The effects of systems of feeding on growth and egg production. 5. A comparison of controlled and unrestricted dry mash, wet mash, and pellet feeding for laying pullets. *Harper-Adams Util. Poultry J. (n. s.)* 33: 37-45. Ref. July 1948. 47.8 P8612
- Experiments carried out at the National Institute of Poultry Husbandry.
- 11788 TITUS, H. W. Alimentación de las gallinas tendiente a conseguir huevos con cáscara firme. *Canado* 2(9): 36-37. Aug. 1948. 49 G153.
- 11789 TRAVES, C. W. Feeding and management of laying and breeding flocks. *Alberta. Dept. Agr. Ext. Serv. B.* 66, 8 p. May 1947. 275.29 AL122
- 11790 TRENT, D. Keep ducks laying; disturbances or lack of food will quickly put them out of production. *Poultry World* 83: 258. Oct. 15, 1948. 47.8 P8682
- 11791 TURNILL, L. Birds will starve on rations alone. *Poultry Farmer [London]* 119(3094): 15. Oct. 22, 1948. 47.8 F312
- 11792 VAN DER MERWE, J. A. Alfalfa meal and hay — a substitute for green fodder. (In Afrikaans.) *S.A.P.A. Poultry B.* 11(130): 9. July 1948. 47.8 So89
- 11793 VANDERVORT, V. Questions and answers on pellets for poultry. *G. L. F. Week. Serv. Sched.* 13(21): 1. Nov. 22, 1948. 280.28 G113W
- 11794 WHEELER, R. S. The effectiveness of a minute oral dose of estradiol as a fattening agent for broilers. *Ga. U. Col. Agr. Ann. Rpt. Poultry Res.* 1946/47: 16-23. 1947. 47.9 G29A
- 11795 WHEELER, R. S., and HOFFMAN, E. The use of growth stimulants in the diet of chicks and hens. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 158-159. 1948. 4 C82
- 11796 WOODS, R. The animal protein factor. *Borden's Rev. Nutr. Res.* 9(8), 12 p. Ref. Oct. 1948. 389.8 B64
- Poultry nutrition.
- Also in *Flour & Feed* 49(7): 34. Dec. 1948. 298.8 F66
- 11797 ZUCKER, L. M., and ZUCKER, T. F. Does "animal protein factor" occur in green plants? *Soc. Expt. Biol. & Med. Proc.* 68: 432-434. July/Aug. 1948. 442.9 Sol1
- For poultry nutrition.

#### Veterinary Medicine

- 11798 ASPLIN, F. D. Identification of infectious bronchitis of chickens in England. *Vet. Rec.* 60: 485-486. Oct. 9, 1948. 41.8 V641
- 11799 AXWORTHY, R. Fowl paralysis may be increasing. *Poultry [London]* 103: 294. Oct. 12, 1948. 47.8 P869
- 11800 AXWORTHY, R. Gizzard worms in geese. *Poultry [London]* 103: 253. Sept. 28, 1948. 47.8 P869
- 11801 BAKER, H. R. Newcastle disease. *Del. Poultry Handb.* 3: 18. 1948. 47.9 D37
- 11802 BARBER, C. W. Newcastle disease. *Ga. U. Col. Agr. Ann. Rpt. Poultry Res.* 1946/47: 35-36. 1947. 47.9 G29A



- 11803 BARBER, C. W. Poultry disease diagnosis. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 36-37. 1947. 47. 9 G29A
- 11804 BARBER, C. W. Sulfaguanidine in the control of experimental avian coccidiosis caused by *Eimeria tenella*. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 13-15. 1947. 47.9 G29A
- 11805 BEACH, J. R. Avian pneumoencephalitis (Newcastle disease). Eggsaminer 25(12): 2, 4. Dec. 1948. 286.85 Eg32
- 11806 BÉDARD, J. A. E. Maladies des dindes. Avic. Québécois 3(7): 23-24. July 1948. 47.8 Av55
- 11807 BELL, A. E. Physiological factors associated with genetic resistance to fowl typhoid. (Abs.) Genet. Soc. Amer. Rec. 17: 31. 1948. 442.9 G28
- 11808 BLACKWELL, H. L. Fight poultry diseases in the field; prevention is just as much the job of the ordinary farmer as the vet. Mod. Poultry Keeping 59: 562-563. Dec. 1, 1948. 47.8 Eg3
- 11809 BLOUNT, W. P. New disease is spreading; disturbance of central nervous system causes partial paralysis of neck, legs or wings. Poultry World 83: 277. Oct. 22, 1948. 47.8 P8682
- Similar title in Smallholder 80(2014): 16. Nov. 5, 1948. 10 Sml
- A disease in Great Britain described as similar to epidemic tremor (avian encephalomyelitis) in the United States.
- 11810 BLOUNT, W. P. The relationship between grit and digestive disorders in poultry. Ulster Farmer 49(9): 42-43. Sept. 1948. 10 UL7
- 11811 BOLIN, F. M., and EVELETH, D. F. Newcastle disease of poultry. Bimonthly B. [N. Dak. Sta.] 10(6): 184-186. July/Aug. 1948. 100 N813B
- Control program.
- 11812 BRODT, G. Geflügelkrankheiten im sommer. Landpost 4(11): 3. June 10, 1948. 18 L2329
- 11813 BRUNETT, E. L., and LEVINE, P. P. Poultry disease: pullorum disease. N. Y. Agr. Col. Cornell Ext. B. 337A, rev., 8 p. Jan. 1948. 275.29 N48E
- Chiefly control.
- 11814 BURMESTER, B. R. The influence of sex hormones upon the occurrence of prolapse in chickens. Poultry Sci. 27: 745-750. Ref. Nov. 1948. 47.8 Am33P
- 11815 CARIDROIT, F. Dominance raciale locale conditionnée par la thyroïde chez le coq domestique. Soc. de Biol. Compt. Rend. 142: 884. July 1948. 442.9 P21
- 11816 CHERNIN, E., and SADUN, E. H. The incidence of Leucocytozoon simondi Mathis and Leger, 1910 among domestic ducks in Northern Michigan. (Abs.) J. Parasitol. 34(6, sup.): 17-18. Dec. 1948. 448.8 J824
- 11817 COOPER, J. B., MORGAN, C. L., and ANDERSON, G. W. Study of sulfamerazine for controlling pullorum in breeding hens. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 148-149. 1948. 4 C82
- 11818 COUCH, J. R., and others. Daily uptake of biotin by the hen's egg. Poultry Sci. 27: 823-825. Nov. 1948. 47.8 Am33P
- W. W. Cravens, C. A. Elvehjem, and J. G. Halpin, joint authors.
- 11819 DESCHIENS, R., and PICK, F. Sur la non-inoculabilité de l'embryon de la poule domestique par le sang infecté par Plasmodium gallinaceum Brumpt 1935. Soc. de Path. Exot. B. 41: 353-356. 1948. 448.9 So13
- 11820 DINTER, Z., BAKOS, K., and ANGERMAIR, M. Ueber den haemagglutinationstest bei atypischer hühnerpest. Berlin. u. München. Tierärztl. Wochenschr. 1948: 32-33. Mar. 1948. 41.8 B45
- 11821 DRBAL, M. Z. Chaponnage électrique. Acad. Vét. de France. B. 21: 297-298. July 1948. 41.9 R24
- 11822 GALLERA, J., and OPRECHT, E. Sur la distribution des substances basophiles cytoplasmiques dans le blastoderme de la poule. Rev. Suisse de Zool. 55: 243-250. July 1948. 410 R324
- 11823 GERMAN, H. L., JAMES, L. E., and SHERWOOD, R. M. Observations on white feather syndromes in Bronze turkeys. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 151-152. 1948. 4 C82
- 11824 GÍSLASON, G., and VIGFÚSSON, H. Fowl pest. (In Icelandic.) Freyr 43: 57-59. Feb./Mar. 1948. 11 F89
- 11825 GORDON, R. F. Recent advances in the fight against disease. Mod. Poultry Keeping 59: 428-429. Oct. 27, 1948. 47.8 Eg3
- 11826 GORDY, J. F., and BAKER, H. R. Keep your flock pullorum clean. Del. U. Agr. Ext. C. 51, rev., 11 p. Apr. 1947. 275.29 D37C
- 11827 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Blackhead in turkeys. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 12, 2 p. Aug. 1948. 41.9 G792A
- 11828 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Coccidiosis in poultry. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 2, 4 p. Apr. 1948. 41.9 G792A
- 11829 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Fowl pox. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 5, 3 p. Aug. 1948. 41.9 G792A
- 11830 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Salmonella infection of poultry. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 13, 4 p. 1948. 41.9 G792A
- 11831 GREENWOOD, A. W. Indications of the heritable nature of nonsusceptibility to Rous sarcoma in fowls. (Abs.) Heredity 2: 284. Sept. 1948. 443.8 H42
- 11832 GUTHRIE, J. E., and HARWOOD, P. D. Phenyl mercuric compounds for the removal of tapeworms from poultry. (Abs.) J. Parasitol. 34(6, sup.): 15. Dec. 1948. 448.8 J824
- 11833 HEEMSTRA, L. C., HENDRICKS, W. A., and OSTEEN, O. L. Results of surveys to determine the incidence of Newcastle disease. Vet. Med. 43: 531-536. Dec. 1948. 41.8 M69
- 11834 HERTER, R. Die kokzidiöse des geflügels und der kaninchen und ihre bekämpfung. Kleintier-Zücht. Tierbörse 2(45): 5-6. Oct. 10, 1948. 49 K672
- 11835 HITCHNER, S. B. A new vaccine for Newcastle [disease]. Southeast. Poultryman 1(3): 5, 15. Sept. 1948. 47.8 So872
- 11836 HITCHNER, S. B., and JOHNSON, E. P. A virus of low virulence for immunizing fowls against Newcastle disease (avian pneumoencephalitis). Vet. Med. 43: 525-530. Dec. 1948. 41.8 M69
- 11837 HOEKZEMA, J. P. Sulfaguinoxaline is new control against poultry coccidiosis. Ind. Farmers Guide 104 (24): 17. Dec. 15, 1948. 6 In2
- 11838 HOWSE, A. C. Pullorum disease a heavy burden on the poultry industry. New Zeal. J. Agr. 77: 143-144. Aug. 1948. 23 N48J
- 11839 HOWSE, A. C. The two forms of coccidiosis in poultry. New Zeal. J. Agr. 77: 275, 277-278. Sept. 1948. 23 N48J
- 11840 HUNT, E. L., and WOLKEN, J. J. The distribution of phosphorus<sup>32</sup> in early chick embryos. J. Expt. Zool. 109(1): 109-118. Oct. 1948. 410 J825
- 11841 INGALLS, W. L. Newcastle disease. Ohio. Agr. Col. Ext. Poultry Pointers 98, 4 p. Mar. 1948. 275.29 Oh32Pp
- 11842 JAQUETTE, D. S. The duration of Trichomonas gallinae infections in individually housed pigeons. Helminth. Soc. Wash. Proc. 15: 72-73. July 1948. 436.9 H36
- 11843 JERSTAD, A. C., and HAMILTON, C. M. The etiology of infectious sinusitis of turkeys. Poultry Sci. 27: 802-812. Ref. Nov. 1948. 47.8 Am33P
- 11844 JOHANSSON, K. R., and SARLES, W. B. Bacterial population changes in the ceca of young chickens infected with Eimeria tenella. J. Bact. 56: 635-647. Ref. Nov. 1948. 448.8 J82
- 11845 KARE, M. R., and BIELY, J. The toxicity of sodium chloride and its relation to water intake in baby chicks. Poultry Sci. 27: 751-758. Ref. Nov. 1948. 47.8 Am33P
- 11846 KEIDEL, H. J. W., SÖTMOLLER, P., and NIE, C. J. VAN. A preferable culture medium for the development of Trichomonas gallinae in small quantities. (In Dutch.) Tijdschr. v. Diergeneesk. 73: 777-781. Oct. 15, 1948. 41.8 T431
- Diagnosis of trichomoniasis in pigeons.
- 11847 KERR, K. B. Hexachlorophene as an agent for the removal of Raillietina cesticillus. Poultry Sci. 27: 781-788. Nov. 1948. 47.8 Am33P
- 11848 KLEIN, G. T. So that fewer chickens die. East. States Coop. 24(12): 8-9. Dec. 1948. 280.28 Ea7
- Immunization.
- 11849 KOMAROFF, A., GOLDSCHMIDT, L., and KAHANA, J. On double injections against the Newcastle disease and chicken pox. (In Hebrew.) Hassadeh 28: 481-483. Aug. 1948. 26 H27
- 11850 KOMAROFF, A. On poultry diseases in U.S.A. (In Hebrew.) Hassadeh 28: 526-527. (Cont.) Sept. 1948. 26 H27



- 11851 KOUTZ, F. R. Immunity studies in avian cecal coccidiosis. II. The use of deep litter and hydrated lime treated litter in the development of immunity in young chickens. *Poultry Sci.* 27: 793-797. Nov. 1948. 47.8 Am33P
- 11852 KRANEVELD, F. C., ERBER, M., and MANSJOER, M. An interesting case of salmonellosis in duck. (In Dutch.) *Nederland Indische Bl. v. Diergeneesk.* 54: 200-202. Oct. 1947. 41.8 V51  
English summary.
- 11853 LA ROSA LLOSA, R. Trabajos de sanidad aviar a emprenderse o a mejorarse y ampliarse. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 1(3): 24-27. Dec. 1947. 49.9 P433
- 11854 LATHAM, J. O. Poisons and poultry. *Mod. Poultry Keeping* 59: 629. Dec. 15, 1948. 47.8 Eg3
- 11855 LEVINE, P. P. The avian leukosis complex. *N. Y. Agr. Col. Cornell Ext. B.* 740, 8 p. Aug. 1948. 275.29 N48E
- 11856 LEWERT, R. M. Exoerythrocytic infection by *Plasmodium gallinaceum* in blood-infected, quinine-treated chicks with special reference to the central nervous system. *Amer. J. Hyg.* 48: 158-169. Ref. Sept. 1948. 449.8 Am3
- 11857 LILLIE, M. G., and others. Early immunological response of young chickens to modified Newcastle virus. *Poultry Sci.* 27: 798-801. Nov. 1948. 47.8 Am33P
- R. L. Reagan, J. E. Hauser, and N. J. Kincaid, joint authors.
- 11858 LODGE, C. Abdomen swells before they restart. *Poultry Farmer [London]* 119(3094): 15. Oct. 22, 1948. 47.8 F312
- 11859 MCKAY, W. M. Treatment of coryza (colds) with iodine. *Canada Poultryman* 35(10): 7-9, 18. Oct. 1948. 47.8 C166  
Paper given at World's Poultry Congress, Copenhagen.
- 11860 MCNEIL, E. Hexamitiasis of turkey poults; recent studies indicate possible control treatment for the disease. *Calif. Agr. [Calif. Sta.]* 2(11): 15. Nov. 1948. 100 C12Cag  
Also in *Co-op. Poultryman* 13(12): 9, 18. Dec. 1948. 280.28 C7843
- 11861 MAN, T. J. DE, and BOS, K. De invloed van enkele belangrijke aminozuren op de groeisnelheid van kuikens (The influence of some important amino acids on the growing rate of chickens). *Hoogland, Instituut voor Moderne Veevoeding "De Schothorst,"* 1947. 19 p. Ref. 47 M312
- 11862 MARINI, S. Short notes on poultry anatomy. (In Italian.) *Allevamenti nel Mondo* 28: 134-135. May/June 1948. 49 AL56
- 11863 MARSHALL, J. First losses among my Rhodes. *Poultry [London]* 103: 312. Oct. 19, 1948. 47.8 P869  
Coccidiosis in poultry.
- 11864 MARYLAND. STATE BD. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. LIVE STOCK SANITARY SECT. Coccidiosis in chickens and turkeys, its cause and control, by H. M. DeVolt. College Park, Md., 1948. 11 p. 41 M368C
- 11865 MASSEY, J. H., HOFFMANN, E., and JAMES, E. Toxic effect of blue lupine on growing chicks. *Ga. U. Col. Agr. Ann. Rpt. Poultry Res.* 1946/47: 32. 1947. 47.9 G29A
- 11866 MILLER, M. W. Blue comb (avian monozystosis), new wheat disease. *Eggsaminer* 25(12): 8-9, 12. Dec. 1948. 286.85 Eg32
- 11867 MOORE, A. C. I have changed my views on [poultry] bloodtesting. *Poultry [London]* 103: 290. Oct. 12, 1948. 47.8 P869
- 11868 MOREHOUSE, N. F. Experiments on the use of quinoline compounds for the prevention of blackhead in turkeys. (Abs.) *J. Parasitol.* 34(6, sup.): 18. Dec. 1948. 448.8 J824
- 11869 NICOLAS, D. S. DE. La peste aviar, su tratamiento y posible curacion. *Cooperación* 7(75/76): 32-33. May/June 1948. 280.28 C7875
- 11870 OTTESEN, J. Life-span of red and white blood corpuscles of the hen. *Nature [London]* 162: 730-731. Nov. 6, 1948. 472 N21
- 11871 PESSA, F. Practical note on avoiding the destruction of the testicle of the cock in effecting castration through the flank (American method). (In Italian.) *Nuova Vet.* 24: 162. May 15, 1948. 41.8 N922
- 11872 POWELL-OWEN, W. Pride in eyes—not a fad; this contributor says breeders have been neglecting them and thinks they should heed a timely warning. *Poultry World* 83: 319. Nov. 5, 1948. 47.8 P8682
- 11873 POYATOS PAGE, P. La peste aviar; contes-tación y punto final. *Valencia Avíc.* 5(5): 19-21. June 1948. 47.8 V23  
In Spain.
- 11874 PRIER, J. E., and RHOADES, H. E. Arthritis in turkeys associated with *Salmonella pullorum*. *Vet. Med.* 43: 541. Dec. 1948. 41.8 M69
- 11875 RAMOS SACO, T. La industria avícola y las enfermedades de las aves. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 2(4): 69-71. (To be cont.) Mar. 1948. 49.9 P433
- 11876 ROISEULET, L. Geflügelcholera—geflügel-pest. *Féd. des Avic. du Haut-Rhin, Bas-Rhin et Moselle. B. Mens.* 1948: 57-58. July 1948. 47.9 F312
- 11877 ROMIJN, C. Respiratory movements of the chicken during the parafoetal period. *Physiol. Compar. et Oecologia* 1: 24-28. 1948. 444.8 P56  
French summary.
- 11878 ROSENWALD, A. S. Live-virus PE vaccine limitations; dangers, advantages of new product against pneumocephalitis. *Calif. Agr. [Calif. Sta.]* 2(12): 6, 14. Dec. 1948. 100 C12Cag  
Also in *Nulaid News* 26(7): 10-11. Nov. 1948. 47.8 N917
- 11879 ROTHCHILD, I. Notes on survival and body weight changes of adult hens following hypophysectomy. *Endocrinology* 43: 298-305. Nov. 1948. 448.8 En2
- 11880 ROTHCHILD, I. A simplified technique for hypophysectomy of the domestic fowl. *Endocrinology* 43: 293-297. Ref. Nov. 1948. 448.8 En2
- 11881 SADUN, E. H. Relation of the gonadal hormones to the natural resistance of chickens and to the growth of the nematode, *Ascaridia galli*. (Abs.) *J. Parasitol.* 34(6, sup.): 18. Dec. 1948. 448.8 J824
- 11882 SIGURÐSSON, B. Medicine for coccidiosis. (In Icelandic.) *Freyr* 43: 95. Mar. 1948. 11 F89  
In poultry.
- 11883 SMITH, R. M., and MCCLUNG, M. R. Relation of egg weight to weight of chicks at twelve weeks of age. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 158. 1948. 4 C82
- 11884 SROKA, K. H. Von der hühnerpest. *Klein-tier-Zücht. Tierbörse* 2(43): 3-4. Sept. 10, 1948. 49 K672
- 11885 STEPHENSON, E. L., and others. Effect of soil on chick growth. *Poultry Sci.* 27: 827-828. Nov. 1948. 47.8 Am33P  
J. McGinnis, W. D. Graham, and J. S. Carver, joint authors.
- 11886 SWIERSTRA, D. Examination of the effect of phenothiazine of *Capillaria longicollis* in hens. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 149-153. Mar. 1, 1948. 41.8 T431  
English summary.
- 11887 TANNER, A. Infectious poultry paralysis. (In Finnish.) *Finsk Vet. Tidskr.* 54: 373-377. Oct. 1948. 41.8 F49
- 11888 TODD, A. C., and HANSEN, M. F. *Eimeria tenella* infection in chickens with induced mild hyperthyrosis. (Abs.) *J. Parasitol.* 34(6, sup.): 29-30. Dec. 1948. 448.8 J824
- 11889 TODD, A. C. Thyroactive iodocasein and thiouracil in the diet, and growth of parasitized chicks. *Poultry Sci.* 27: 818-821. Nov. 1948. 47.8 Am33P
- 11890 TOOP, C. R. Laryngo-tracheitis. *West. Austral. Dept. Agr. J. (ser. 2)* 25: 111-115. June 1948. 23 W52J  
In poultry.
- 11891 TRINKAUS, J. P. Factors concerned in the response of melanoblasts to estrogen in the Brown Leghorn fowl. *J. Expt. Zool.* 109(1): 135-164. Ref. Oct. 1948. 410 J825
- 11892 TURNER, C. W. Oral effectiveness of androgens in fowls. *Poultry Sci.* 27: 789-792. Nov. 1948. 47.8 Am33P
- 11893 VAITSMAN, J. How to have capons without castrating the cockerel. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 197-199. May/June 1948. 9.2 R324  
Use of stilbesterol.  
Also in *Rev. Agron.* 12: 85-86. Apr./June 1948. 9.2 R325
- 11894 VONK, H. J., and POSTMA, N. X-ray studies on the movements of the hen's intestine. *Physiol. Compar. et Oecologia* 1: 15-23. Ref. 1948. 444.8 P56  
French summary.



- 11895 WALFORD, S. M. Hatching egg producers must outsmart Newcastle! East. States Coop. 24(12): 12-13. Dec. 1948. 280.28 Ea7
- 11896 WALFORD, S. M. This Newcastle problem; a State line is no barrier to spread of the disease. Merri-mack's Monthly Messenger 10(11): 1-2, 7. Nov. 1948. 6 M55
- Control by vaccination.
- 11897 WARD, G. W. Poultry diseases. III. Diagnosis of disease. Westralian Farmers' Co-op Gaz. 14: 159, 161-162. Sept. 1948. 280.28 W522
- 11898 WEHR, E. E. A cropworm, *Capillaria contorta*, the cause of death in turkeys. Helminth. Soc. Wash. Proc. 15: 80. July 1948. 436.9 H36
- 11899 WOLKEN, J. J., and SCHWERTZ, F. A. Phys-ical structure of shell membranes. J. Gen. Physiol. 32: 153-161. Nov. 20, 1948. 447.8 J822
- Relation to development of chick embryo.
- 11900 ZEEUW, DE. The weather and coccidiosis. (In Flemish.) Pluimvee 2: 219. June 1948. 47.8 P72
- In poultry.

#### Miscellaneous

- 11901 ALP, H. H. Culling and selecting the laying flock. Hoard's Dairyman 93: 867. Nov. 25, 1948. 44.8 H65
- 11902 AMSDEN, J. The effects of weather upon poultry. Mod. Poultry Keeping 59: 455, 465, 484-485. Nov. 3, 10, 1948. 47.8 Eg3
- 11903 BAYON, H. P. Turkeys can be run with poultry if—. Poultry Farmer [London] 119(3093): 4. Oct. 15, 1948. 47.8 F312
- 11904 BELL, J. C. The Georgia national egg laying test. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 46. 1947. 47.9 G29A
- 11905 BERG, B. VAN DEN. The A 1-meat chicken is coming. (In Flemish.) Pluimvee 1: 31-32. Dec. 1947. 47.8 P72
- 11906 BERG, B. VAN DEN. Raising chicken. (In Flemish.) Pluimvee 2: 90-93. Feb. 1948. 47.8 P72
- 11907 BLACKWELL, H. L. The hen and the soil. Mod. Poultry Keeping 59: 485. Nov. 10, 1948. 47.8 Eg3
- 11908 BLACKWELL, H. L. Make the most of natural resources. Mod. Poultry Keeping 59: 628-629. Dec. 15, 1948. 47.8 Eg3
- 11909 BLOOMFIELD, H. Turkey every day. Country Gent. 118(12): 23, 92-95. Dec. 1948. 6 C833
- Management of a turkey farm.
- 11910 BRANN, V. H. Cockerel raising in batteries; a new industry successfully established. Agr. Gaz. N. S. Wales 59: 437-442. Aug. 1948. 23 N472
- 11911 BURGESS, E. S. In defence of yearlings as layers. Smallholder 80(2012): 19. Oct. 22, 1948. 10 Sml
- 11912 CAPPER, A. One-man farming. 3. Should you become a hatchery? Poultry Farmer [London] 119(3096): 4. Nov. 5, 1948. 47.8 F312
- 11913 CLIZER, N. R. Avoid wet litter. Mo. Rural-ist 89(21): 18-19. Nov. 13, 1948. 6 R8891
- In the laying house.
- 11914 COLES, R. The Eighth World's Poultry Congress. Gt. Brit. Min. Agr. Agriculture 55: 346-348. Nov. 1948. 10 G79J
- 11915 COUCHMAN, R. Fall management of laying hens. Nulaid News 26(7): 5-6. Nov. 1948. 47.8 N917
- 11916 CURTIS, G. C. Raise large flocks; keep good records. Washcoegg 26(6): 8, 21. Nov. 1948. 47.8 W27
- 11917 DEARSTYNE, R. S. How close are we going to cull old hens? Carolina Farmer 3(10): 17. Oct. 1948. 6 C223
- 11918 DELAWARE POULTRY IMPROVEMENT ASSOCIATION. Delaware poultry handbook, 1948. Newark, Del., 1948. v. 3, 92 p. 47.9 D37
- 11919 DETRY, E. La robustesse de nos pondeuses. Courrier Hort. 10: 612-613. Oct. 1948. 80 C834
- 11920 DREWRY, D. Success with ducks. The different systems that can be used. Mod. Poultry Keeping 59: 424. Oct. 27, 1948. 47.8 Eg3
- 11921 EBBELL, VIII. Weltkongress für Geflügelzucht in Kopenhagen. Geflügelhof 11: 636-640; 667-671. Oct. 8, 22, 1948. 47.8 G276
- 11922 EL-IBIARY, H. M. Body conformation in turkeys. Poultry Sci. 27: 825-826. Nov. 1948. 47.8 Am33P
- 11923 ELKINGTON, W. M. The national [poultry] test of 1947-48. Poultry Indus. 13: 410-411. Oct. 15, 1948. 47.8 P8644
- 11924 FERGUSON, C. M. Spring plans for fall [poultry] profits. Ohio. Agr. Col. Ext. Poultry Pointers 97, 4 p. Feb. 1948. 275.29 Oh32Pp
- 11925 FINK, F. Die brieftaube im flug. Österr. Kleintierzüchter 1948: 395-396. June 1948. 49 Os7
- 11926 FINK, F. Wie orientiert sich die brieftaube? Österr. Kleintierzüchter 1948: 473-474. Nov. 1948. 49 Os7
- 11927 FRAZIER, R. F. What Southeastern [Poultry and Egg Association] means to you; the story of the growth of a regional, industry-wide organization of poultrymen. Southeast. Poultryman 1: 4-5, 12-13. July 1948. 47.8 So872
- 11928 GOBBI, E. J. La cria del ganso. Rev. Mens. B. A. P. 31(369): 40-42. Aug. 1948. 9 R326
- 11929 GORDY, F. Delaware Poultry Improvement Association serves the poultry industry. Del. Poultry Handb. 3: 4. 1948.
- 11930 GRATON, A. L'élevage des dindons. B. des Agr. 44(11): 16-18. Nov. 1948. 7 B872
- 11931 GUÉRANDE, A. A propos des poules cou-nu. Rustica 21: 833. Nov. 21, 1948. 14 R92
- 11932 HAGMAN, H. Winter hatched chickens can also give good results. (In Swedish.) Prakt. Försöks-verks. 5: 6-7. Jan. 1948. 20 P88
- 11933 HALLOWS, R. J. Eggs next month: when will adult birds recommence production? Poultry World 83: 335. Nov. 12, 1948. 47.8 P8682
- 11934 HOFFMANN, E., and CHAPMAN, C. S. A comparison of battery and floor brooding. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 33-34. 1947. 47.9 G29A
- 11935 HOFFMANN, E. The value of sexing broilers and rearing the sexes separately in increasing efficiency of meat production. Ga. U. Col. Agr. Ann. Rpt. Poultry Res. 1946/47: 9. 1947. 47.9 G29A
- 11936 HOPF, K. Für und gegen die eier-fabrik. Landpost 4(14): 6. July 25, 1948. 18 L2329
- 11937 HOWES, H. Appropriate time for the annual [poultry keeping] valuation. Poultry [London] 103: 252. Sept. 28, 1948. 47.8 P869
- 11938 HOWES, H. Slow-to-lay pullets do better alone. Smallholder 80(2014): 17. Nov. 5, 1948. 10 Sml
- 11939 INGRAM, C. Improved methods of outdoor brooding. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 155-156. 1948. 4 C82
- 11940 JULL, M. A. Producing Maryland hatching eggs for broiler production. Md. State Poultry Council. Proc. 1947: 9-11. 1948. 47.9 M36P
- 11941 KENNEY, S. M. Suggestions for the poultry-man. New England Homestead 121(22): 18, 21. Nov. 27, 1948. 6 N442
- Chiefly chick care.
- 11942 KING, D. F. Battery vs. floor brooding. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 63(12): 100. Dec. 1948. 6 P945K
- 11943 KREHAN, H. Die hühnerhaltung im siedler-garten. Nach der Arbeit 1948(16): 5. Aug. 3, 1948. 80 N11
- 11944 KUNG, K. Junghähne im freilauf. Geflügelhof 11: 624-625. Oct. 1, 1948. 47.8 G276
- Poultry management.
- 11945 LAFFERTY, J. E. H. Let's look at Mr. Rat. Del. Poultry Handb. 3: 24. 1948. 47.9 D37
- As poultry pest.
- 11946 LATHAM, J. O. Light and poultry. Mod. Poultry Keeping 59: 555. Dec. 1, 1948. 47.8 Eg3
- 11947 LLOYD-THOMAS, W. A recovery plan for goose keepers. Mod. Poultry Keeping 59: 419-420. Oct. 27, 1948. 47.8 Eg3
- 11948 LUTLEY, E. F. The future of the laying battery. Mod. Poultry Keeping 59: 409. Oct. 27, 1948. 47.8 Eg3
- 11949 MCARDLE, A. A. Parafield Official Egg Laying Competition, 1947-48. So. Austral. Dept. Agr. J. 52(sup.), 15 p. Aug. 1948. 23 So84
- 11950 MCCOLLUM, A. A unique business; pheasant raising. Farmer [St. Paul], Gen. Ed. 66(22): 8. Nov. 20, 1948. 6 F2211
- Chiefly management.
- 11951 MCGINNIS, J. Are you interested in research? Washcoegg 26(6): 9, 28. Nov. 1948. 47.8 W27



- 11952 MCNALL, P. E., and ANDERSON, H. O. Small poultry flocks on the farm can be made to pay. Wis. Agr. Expt. Sta. Stencil B. 8, 5 p. Aug. 1948. 100 W755
- 11953 MARSHALL, W. Brush up your incubation technique. Success depends upon keeping as near as possible to the four fundamental requirements necessary to maintain a suitable physical environment for the egg. Mod. Poultry Keeping 59: 422-423. Oct. 27, 1948. 47.8 Eg3
- 11954 MARTIN, R. G. N.U.P.B.A. [National Utility Poultry Breeders' Association of Australia] annual federal conference. Victorian Poultry J. 34(10): 45, 47, 49, 51, 53, 55, 57, 59. May 1, 1948. 47.8 V662
- 11955 MILLER, I. Thirteen is important number when farmers talk about eggs and lights. North Cent. News 5(11): 3. Sept. 17, 1948. 335.8 N81
- 11956 MOORE, A. C. Denmark [poultry farms] gave me many happy surprises. Poultry [London] 103: 250. Sept. 23, 1948. 47.8 P869
- 11957 MOORE, A. C. Our aim should still be early autumn eggs. Poultry [London] 103: 270. Oct. 5, 1948. 47.8 P869
- 11958 MÜNTER, W. Auch tauben haben wünsche. Land u. Frau 28(12): 6. Oct. 23, 1948. 18 O482L
- 11959 NICKERL, A. Künstliche brut. Österr. Kleintierzüchter 1948: 386-387. June 1948. 49 Os7 Poultry
- 11960 PINTO, B. T. America help our poultry industry. (In Flemish.) Plumvee 2: 157-159. Apr. 1948. 47.8 P72
- Poultry research in the United States.
- 11961 PINTO, B. T. High flying chickens. (In Flemish.) Plumvee 2: 241-244. July 1948. 47.8 P72
- 11962 POWELL-OWEN, W. No credit to the weather, it is hatching dates that provide the key to output in the first laying season. Poultry World 83: 355. Nov. 19, 1948. 47.8 P8682
- 11963 RENWICK, L. Utility pigeons in Australia. Fur & Feather 111: 446. Sept. 3, 1948. 49 F96
- 11964 RHEINGANTZ, O. L. O. Better hens, more eggs and more money! (In Portuguese.) Granja 3(34): 38. (Cont.) July 1948. 9.2 G76
- 11965 RUMLER, R. H. Ciencia aplicada: revolución en el gallinero. Rev. Nac. de Cien. Polit.-Econ.-Sociales 7(82): 10. Sept. 1948. 280.8 R3295
- 11966 SAMAT, M. Combien de temps faut-il garder les pondeuses? Réveil Agr. 57: 264-265. Sept. 1, 1948. 14 R322
- 11967 SAMAT, M. L'utilité du nid-trappe. Réveil Agr. 57: 282. Sept. 15, 1948. 14 R322
- For poultry.
- 11968 SCOTT, G., and THORNBUR, C. Pedigree problems and hatching points. Mod. Poultry Keeping 59: 559. Dec. 1, 1948. 47.8 Eg3
- 11969 SINGER, R. Das zwerg- und ziergeflügel an der ausstellung in Kopenhagen anlässlich des 8 Weltgeflügelkongresses. Geflügelhof 11: 671-672, 674-675. Oct. 22, 1948. 47.8 G276
- 11970 SINGER, S. J. Problemas en el cuidado y alimentación de los pavos. Campo [Tacuba] 16(678): 22, 24, 26-30, 32-33. Aug. 31, 1948. 8 C157
- 11971 SIRRI, A. World experience at the disposal of Italian poultry producers. (In Italian.) Campagnolo 1948(9): 4. Sept. 1, 1948. 16 C15
- 11972 SKOGLUND, W. C., TOMHAVE, A. E., and MUMFORD, C. W. The hatchability of eggs of various sizes. Poultry Sci. 27: 709-712. Nov. 1948. 47.8 Am33P
- 11973 SMALL, J. These pullets may deceive. Some are nearer to lay than headgear suggests. Poultry World 83: 321. Nov. 5, 1948. 47.8 P8682
- 11974 SPAVEN, J. 200 eggs per bird and more in Vermont. Poultry Comment 5(4): 2. Sept. 1948. 47.8 D92
- 11975 SPINNEY, G. G. The case for specialisation. Mod. Poultry Keeping 59: 383. Oct. 20, 1948. 47.8 Eg3
- 11976 SPINNEY, G. G. Hard weather hatching. Mod. Poultry Keeping 59: 628. Dec. 15, 1948. 47.8 Eg3
- 11977 SPINNEY, G. G. Intensive system will stage come-back. Mod. Poultry Keeping 59: 508-509. Nov. 17, 1948. 47.8 Eg3
- 11978 STACEY, C. G. Coaxing the late pullets. Mod. Poultry Keeping 59: 563. Dec. 1, 1948. 47.8 Eg3
- 11979 STAFFE, A., and EBBELL, H. Ueber den einfluss einiger umweltsfaktoren auf legeleistung, brut, aufzucht, wachstum, mauser. Geflügelhof 11: 607, 608, 610. Sept. 24, 1948. 47.8 G276
- Chiefly effects of light and climate.
- 11980 STAUFFER, V. D. Normas para la cría de pollos bebé. Serv. Coop. Interamer. de Prod. de Alimentos. Ser. Inform. Téc. 21, 6 p. Jan. 1947. 9.8 Se6
- 11981 SYKES, G. Housing layers for 5s. each: a hen-yard system which should enable one man to look after 4,000. Poultry Farmer [London] 119(3099): 6. Nov. 26, 1948. 47.8 F312
- 11982 TOMHAVE, A. E. 1948 National "Chicken-of-Tomorrow" Contest staged in Delaware. Del. Poultry Handb. 3: 6. 1948. 47.9 D37
- 11983 TORRES L. DE HARO, C. La avicultura en pequeña escala. Valencia Avíc. 5(5): 14-16. June 1948. 47.8 V23
- 11984 TRAVES, C. W. Brooding and rearing of chicks and poults. Alberta. Dept. Agr. Ext. Serv. Leaflet 56, 10 p. 1947. 275.29 AL122
- 11985 TRAVES, C. W. Turkey raising in Alberta. Alberta. Dept. Agr. Ext. Serv. B. 1, rev., 23 p. July 1947. 275.29 AL122
- 11986 TURNILL, L. High eggers moult faster. Poultry Farmer [London] 119(3092): 8-9. Oct. 8, 1948. 47.8 F312
- 11987 U. S. BUR. OF ANIMAL INDUSTRY. REGIONAL POULTRY RESEARCH LABORATORY. Ninth annual report, 1947/48. East Lansing, 1948. 21 p. 1.972 A3R291
- 11988 WESTERBECK, L. E. Good management can help you hit a new high in turkey breeder profits. Co-op Chick News 19(10): 4-5. Oct. 1948. 47.8 C783
- 11989 WHITTLE, T. E. It is the family that matters. Mod. Poultry Keeping 59: 380. Oct. 20, 1948. 47.8 Eg3
- Importance of keeping adequate records.
- 11990 WILSON, W. O. Some effects of increasing environmental temperatures on pullets. Poultry Sci. 27: 813-817. Nov. 1948. 47.8 Am33P
- 11991 WINNER, E. B., and UREN, A. W. Raising turkeys. Mo. Agr. Col. Ext. C. 562, 23 p. July 1948. 275.29 M69C

## RABBITS

Breeds and Breeding

- 11992 BENEDICT, P. F. With Rex it's fur first. Amer. Small Stock Farmer 32(12): 21. Sept. 1948. 48.8 J82
- 11993 BREITHAUPT, G. Kleinsilberkaninchen. Kleintier-Zücht. Tierbörse 2(45): 7. Oct. 10, 1948. 49 K672
- 11994 BRITTON, C. T. Why the Fawn Rex should be given official recognition. Fur & Feather 111: 401. Aug. 13, 1948. 49 F96
- 11995 BUDD, H. Sound slate base colour the foundation of the exhibition Chinchilla. Fur & Feather 111: 428. Aug. 27, 1948. 49 F96
- 11996 BUSCH, A. Wirtschaftsrassen. Kleintier-Zücht. Tierbörse 2(45): 6. Oct. 10, 1948. 49 K672
- Rabbits.
- 11997 CHENG, P., and CASIDA, L. E. Fertility in rabbit as affected by the dilution of semen and the number of spermatozoa. Soc. Expt. Biol. & Med. Proc. 69(1): 36-39. Oct. 1948. 442.9 Sol
- 11998 DENMAN, L. What the furrier wants from the breeder of Rex rabbits. Fur & Feather 111: 389. Aug. 6, 1948. 49 F96
- 11999 DESCOTILS, R. Raising Angora rabbits. (In Italian.) Allevamenti nel Mondo 28: 180. May/June 1948. 49 AL56
- 12000 DOWLE, H. D. H. The Argente. Fur & Feather 111: 379. July 30, 1948. 49 F96
- Chiefly on the breed, Champagne d'Argent, being the first of a series on the Silver varieties.
- 12001 DUFFIN, T. H. Dutch rabbit breeding; how to win with Tortoiseshells. Fur & Feather 111: 465. Sept. 17, 1948. 49 F96
- 12002 ELTER, L. Argenté Anglais. Féd. des Avic. du Haut-Rhin, Bas-Rhin et Moselle. B. Mens. 1948: 45-46; 59-60. June-July 1948. 47.9 F312
- Rabbits.
- 12003 FREINTSBERGER, K. Über die züchtung des Holländerkaninchens. Österr. Kleintierzüchter 1948: 390-391. June 1948. 49 Os7



- 12004 HONSTETTER, R. Das hasenkaninchen. Kleintier-Zücht. Tierbörse 2(43): 6-7. Sept. 10, 1948. 49 K672
- 12005 HOUT, F. VAN. Creation of prominent lines of fur rabbits. (In Flemish.) Cult. en Handel 14: 573-574, 585. Sept. 1948. 80 C892
- 12006 KIESER, F. Einiges über die körperform des Belg. Riesen. Kleintier-Zücht. Tierbörse 2(44): 8-9. Sept. 25, 1948. 49 K672
- White Giant rabbit in Germany.
- 12007 KOEPPEN, E. Why American Angoras. Angora Rabbit Mag. 4(4): 5. Nov. 1948. 40.28 An42
- 12008 LINKE-CRAWFORD, E. Farbige Angorakaninchen. Osterr. Kleintierzüchter 1948: 476-477. Nov. 1948. 49 Os7
- 12009 MEREDITH, R. C. A living plus with Angoras. Angora Rabbit Mag. 4(4): 8, 18. Nov. 1948. 40.28 An42
- 12010 RICE, S. F. Selection and mating for higher production. Small Stock Mag. 32(12): 3, 42. Dec. 1948. 48.8 P442
- Rabbits.
- 12011 SCHMIDTHUBER, K. Havannasilber. Osterr. Kleintierzüchter 1948: 454. Oct. 1948. 49 Os7
- Rabbits.
- 12012 SCHMIDTHUBER, K. Meissner Widder. Osterr. Kleintierzüchter 1948: 389. June 1948. 49 Os7
- Breed of rabbits.
- 12013 SHIRREFF, MRS. W. H. Shearing [Angoras] for profit. Small Stock Mag. 32(12): 17. Dec. 1948. 48.8 P442
- 12014 SMITH, E. Chinchilla breeders urged to "run on" all young does of quality. Fur & Feather 111: 413. Aug. 20, 1948. 49 F96
- 12015 SMITH, E. Modern judges are making the Chinchilla a fancy breed; density, texture and length of fur are being ignored. Fur & Feather 111: 480. Sept. 24, 1948. 49 F96
- 12016 STAIGHT, O. N. Checkered Giant, the dual-purpose rabbit. Small Stock Mag. 32(12): 8. Dec. 1948. 48.8 P442
- 12017 THOMPSON, H. O. Following and interpreting the Dutch standard. Small Stock Mag. 32(12): 10. Dec. 1948. 48.8 P442
- 12018 WAROQUIEZ, P. Les lapins Rex. Féd. des Avic. du Haut-Rhin, Bas-Rhin et Moselle. B. Mens. 1948: 48. June 1948. 47.9 F321

#### Feeds and Feeding

- 12019 JOHNS, L. H. The study of minerals in nutrition. Amer. Rabbit J. 18: 134. Oct. 1948. 40.28 Am3
- 12020 SAINT-OLIER. Pour nourrir vos lapins, topinambour, son et avoine. Rustica 21: 761. Oct. 31, 1948. 14 R92
- 12021 TEMPLETON, G. S. Rabbit fur-eating habit. Calif. Farmer, South. Ed. 189: 478. Dec. 4, 1948. 6 C126A
- Feeding practices to correct habit.

#### Veterinary Medicine

- 12022 BRAMBELL, F. W. R., HEMMINGS, W. A., and ROWLANDS, W. T. The passage of antibodies from the maternal circulation into the embryo in rabbits. Roy. Soc. London. Proc. Ser. B. Biol. Sci. 135: 390-403. Ref. Oct. 26, 1948. 501 L84B
- 12023 BUIS, R. Le coryza du lapin. Réveil Agr. 57: 265-266, 282-283. Sept. 1, 15, 1948. 14 R322
- 12024 DOYLE, W. L. Effects of dehydrating agents on phosphatases in the lymphatic nodules of the rabbit appendix. Soc. Expt. Biol. and Med. Proc. 69(1): 43-44. Oct. 1948. 442.9 S01
- 12025 KRENN, E. Zur tympanie der kaninchen. Wiener Tierärztl. Monatsschr. 34: 784-788. Dec. 1947. 41 T345
- 12026 MORGAN, B. B. Chemotherapy of Tritrichomonas foetus infections in rabbits. (Abs.) J. Parasitol. 34(6, sup.): 13. Dec. 1948. 448.8 J824
- 12027 PALKIN, G. A. Glutathione content in the blood of rabbits in relation to sex, age and constitution. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Dok. 7: 173-174. 1948. 20 M857
- 12028 THACKER, E. J., and ELLIS, G. H. Liver damage and growth in the rabbit. J. Nutr. 36(5): 579-591. Ref. Nov. 10, 1948. 389.8 J82
- 12029 THOMPSON, H. O. Show coops. Small Stock Mag. 32(12): 5. Dec. 1948. 48.8 P442
- Injuries to rabbits.

- 12030 VALETTE, G., and CAVIER, R. L'activité de la progestérone par voie transcutanée chez le lapin. Soc. de Biol. Compt. Rend. 142: 896-898. July 1948. 442.9 P21
- 12031 WEIDMANN, H. Untersuchungen über natrium- und magnesium-methylaminoantipyrinmethansulfonat. IV. Die Wirkung von magnesium-methylaminoantipyrinmethansulfonat (Magnopyrol) auf den Dünndarm des Kaninchens in situ. Schweizer Archiv für Tierheilkunde 90: 594-600. Oct. 1948. 41.8 Sch9
- 12032 WILSON, W. K. Treatment for coccidiosis in rabbits. Poultry [London] 103: 313. Oct. 19, 1948. 47.8 P869

#### Miscellaneous

- 12033 OULHOUSE, G. G. Saving the young in the nest box in winter. Small Stock Mag. 32(12): 16. Dec. 1948. 48.8 P442
- Rabbits.
- 12034 TEMPLETON, G. S. Does the rabbit chew its cud? Standard Rabbit J. 22(2): 3. Nov. 1948. 40.28 St2

#### SHEEP AND GOATS

##### Breeds and Breeding

- 12035 BENZONI, C. Contribution to the study of the Sardinian sheep. Research on the principal bodily measurements. (In Italian.) Zootec. e Vet. 3: 235-243. Apr./May 1948. 41.8 Z7
- 12036 BLIN, H. L'élevage du Mérinos précoce. Monit. Agr. 1(41): 6. Oct. 24, 1948. 14 M744
- 12037 BLIN, H. Le mouton berrichon du Cher amélioré. Monit. Agr. 1(43): 6. Nov. 7, 1948. 14 M744
- 12038 BOWKER, J. Is "Merino" a sufficient guarantee of purity? Co-operation with the trade essential to safeguard our reputation. (In English and Afrikaans.) Merino Breeders' J. 10(4): 8, 29. Oct. 1948. 45.8 So8
- 12039 BROWN, R. E. Columbia sheep; history made over 30 years of experimental work in cross-breeding. West. Livestock Rptr. 9(7): 43. Oct. 1948. 286.85 W523
- 12040 BUKOWSKI, W. The Region of Łowicz as a basis of the work upon the local sheep breed. (In Polish.) Przegl. Hodowlany 16: 148-149. June 1948. 49 P952
- English summary.
- 12041 CALVO, C. A. Lanasy corderos Corriedale. Bolsa de Com., Rosario. Rev. 36(883): 19-20. Oct. 31, 1948. 287 R71
- 12042 CHOQUETTE, C. Le mouton Caracul dans Québec. B. des Agr. 44(11): 6-7. Nov. 1948. 7 B872
- 12043 CLARK, L. P. A brief history of Merino sheep. Sheep & Goat Raiser 1948: 18. Oct. 1948. 45.8 Sh3
- 12044 COOK, J. Anglo-Nubian dilemma. Brit. Goat Soc. Monthly J. 41: 245. Oct. 1948. 40.19 B77M
- 12045 COOK, O. M. How many Karakuls shall I buy? Karakul J. 1(6): 12-13. May/June 1948. 45.8 K142
- 12046 DOMINGUEZ, O. Four defects to avoid in the sheep sire. (In Portuguese.) Rev. Agron. 12: 112. Apr./June 1948. 9.2 R325
- 12047 DU TOIT, A. T. Stud book for Merino sheep considered impracticable. (In English and Afrikaans.) Merino Breeders' J. 10(4): 6-7. Oct. 1948. 45.8 So8
- 12048 FRASER, A. Cheviot sheep. Gt. Brit. Min. Agr. Agriculture 55: 277-283. Oct. 1948. 10 G79J
- 12049 FRASER, G. Breeding of Merinos of good type. So. Austral. Dept. Agr. J. 52: 37-39. Aug. 1948. 23 So84
- 12050 HEALE, W. The moment to start Southdowns. Poultry Farmer [London] 119(3099): 4. (To be cont.) Nov. 26, 1948. 47.8 F312
- 12051 HOFFMANN, F. E. Type an important factor. Greater uniformity evident in our present-day Merinos. (In English and Afrikaans.) Merino Breeders' J. 10(4): 22. Oct. 1948. 45.8 So8
- 12052 JUEL-BROCKDORFF, E. From the ram auctions in Scotland. (In Danish.) Tolvmandsbladet 20: 209-210. Oct. 1948. 11 T58
- 12053 KINGWILL, R. Is corrective mating a desirable practice? Best type of Merino for South Africa still undecided. (In English and Afrikaans.) Merino Breeders' J. 10(4): 11. Oct. 1948. 45.8 So8
- 12054 LOPEZ ARIAS, A. Elección de un reproductor ovino. Rev. Mens. B. A. P. 31(369): 21, 23, 63-64. Aug. 1948. 9 R326



12055 MORGAN, G. Corriedales help to build fat lamb industry in Queensland. *Farmer & Settler Rev.* 1 (5): 31. Oct. 1948. 23 F2262

12056 NEALE, P. E. It pays to pick high producing rams. *Sheep & Goat Raiser* 1948: 36-37. Oct. 1948. 45.8 Sh3

12057 ORTAVANT, R., LAPLAUD, and THIBAUT, C. Influence de l'électroéjaculation sur la qualité du sperme chez le bélier. *Acad. d'Agr. de France. Compt. Rend.* 34: 733-736. June 16/23, 1948. 14 P215Bc

12058 POSPELOV, S. P. Effect of age and graying of Karakul black sheep on their offspring's fur quality. (In Russian.) *Vsesoiuzn. Nauch. Issled. Inst. Okhot. Promysla. Trud.* 1947(7): 113-129. Ref. 1947. 412.629 V96

12059 SCAMMELL, A. F. Expert breeders produce sheep to suit varied conditions. *Farmer & Settler Rev.* 1(5): 8. Oct. 1948. 23 F2262

12060 TARRY, W. B., JR. A study of face-covering in the Hampshire breed of sheep. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 109. 1948. 4 C82

12061 WHITLOCK, R. Revival of Wiltshire Horns. The curious story of a once-famous breed of sheep. *Field* 192: 467. Oct. 23, 1948. 10 F45

#### Feeds and Feeding

12062 BLAXLAND, A. C. Value of salt and salt licks for sheep and lambs. *Country Life* [Sydney] 60 (13, Fat Lamb Sup.): 10. Sept. 24, 1948. 286.85 Sy2

12063 CONKLIN, R., and CONKLIN, V. Succulents. *Amer. Dairy Goat News* 10(5): 4, 15. Nov. 1948. 40.18 Am34

Forage plants for goats..

12064 LEVECK, H. H. Finishing western lambs on winter forage. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 104. 1948. 4 C82

12065 LITTON, G. W., and KINCAID, C. M. Feeding grain to spring lambs and their dams on pasture. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 109. 1948. 4 C82

12066 NORDFELDT, S. Gelatin and bone broth for swine. (In Swedish.) *Lantmannen* 32: 250. Apr. 10, 1948. 11 L234

12067 RIU VULART, J. M. El pastoreo de las cabras en los montes de los alrededores de Barcelona. *Cám. Ofic. Sind. Agr. de Barcelona. B.* 3: 185-187. July 1948. 15 C14

12068 SHEEHY, E. J. The animal on the farm; the diet of the sheep: pasture. *Agr. Ireland* 5: 252-253, 255. Nov. 1948. 10.5 Ag8  
No. 61 of the series.

12069 SMITH, R. P. My methods of hand feeding sheep. *So. Austral. Dept. Agr. J.* 52: 40-41. Aug. 1948. 23 So84

12070 THIEULLOY, E. De la verdure toute l'année pour vos moutons. *Rustica* 21: 764. Oct. 31, 1948. 14 R92

12071 TIRÉN, O. Sheep pasturing. (In Swedish.) *Västerbotten* 1947: 77-80. Oct. 1947. 11 V442

12072 WHITE, H. F. Welfare demands improved pasture, maintained in nature's way. *Farmer & Settler Rev.* 1(5): 21, 23. 23 F2262  
Adequate nutrition for sheep.

12073 WILLMAN, J. P., and others. Cornell lamb fattening studies. II. *Natl. Wool Grower* 38(11): 13, 30. Nov. 1948. 45.8 N21N

L. B. Embry, F. B. Morrison, and E. W. Klosterman, joint authors.

#### Veterinary Medicine

12074 CARLSSON, C. E. How to avoid acidosis or pregnancy disease of sheep. (In Swedish.) *Svenska Fåravelsför. Tidskr.* 27: 196-198. 1947. 45.9 Sv2

12075 CRAWFORD, A. B. The responsibility of the goatkeeper with relation to brucellosis in goats. 2. *Better Goatkeeping* 4: 805-807. Nov. 1948. 40.18 B46

12076 DARLAN, L. A. Bronconeumonía verminosa en los laneros o helmintiasis pulmonar o lombrices pulmonares. *Buenos Aires. Dir. de Med. Vet. B.* 4 (21/22): 29-32. 1947. 41.9 B865

12077 GIACOMETTO, G. On a case of sternal ectocardia [in a goat]. (In Italian.) *Prog. Vet.* 3: 47-48. Feb. 1, 1948. 41.8 P942

12078 GOODMAN, A. A. Sheep stomach worm. *San Luis Val. Farmer & Stockman* 3(1): 15. Oct. 1948. 6 Sa52

12079 GORDON, H. M. Control of worm parasites of sheep. *Queensland Agr. J.* 67: 33-54. July 1948. 23 Q33

12080 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Fluke or liver rot in sheep. *Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet* 6, 6 p. Apr. 1948. 41.9 G792A

12081 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Foot rot in sheep. *Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet* 11, 2 p. Aug. 1948. 41.9 G792A

12082 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Swayback in lambs. *Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet* 9, 2 p. Aug. 1948. 41.9 G792A

12083 GUILHON, J., and RIOUX, J. Action du tétrachlorure de carbone sur la petite douve [Dicrocoelium lanceolatum]. *Acad. d'Agr. de France. Compt. Rend.* 34: 836-838. June 30/July 7, 1948. 14 P215Bc  
In sheep.

12084 GUILHON, J., and RIOUX, J. Essais de traitement de la dicrocoeliose ovine par les dérivés du triphénylméthane. *Acad. Vét. de France. B.* 21: 303-307. July 1948. 41.9 R24

Dicrocoelium dentriticum treated with triphenylmethane dyes.

12085 HAWKINS, P. A. Moniezia expansa infections in sheep. (Abs.) *J. Parasitol.* 34(6, sup.): 33. Dec. 1948. 448.8 J824

12086 HOF LUND, S. Current problem of sheep farming in South Africa. (In Swedish.) *Svenska Fåravelsför. Tidskr.* 27: 199-211. 1947. 45.9 Sv2  
Chiefly on diseases.

12087 LUCKER, J. T., and NEUMAYER, E. M. The effect of some nematode infections on the leucocyte count in sheep. (Abs.) *J. Parasitol.* 34(6, sup.): 19. Dec. 1948. 448.8 J824

12088 MCMANUS, N. R. Case report: Escherichia coli mastitis in a goat—treatment with streptomycin. *Pa. U. School Vet. Med. Vet. Ext. Q.* 112: 12-13. Oct. 16, 1948. 41.9 P386

12089 MANNINGER, R. A new vaccine against sheep pox. *Acta Vet. Hungarica* 1(1): 43-45. 1948. 41.8 Ac82

12090 MONDON. La cénurose cérébrale (tournis). *Terre Maroc.* 20: 273. Oct. 1948. 24 T44

12091 NAJJAR, H. The liver fluke [in sheep and other livestock]. (In Arabic.) *Syria. Ext. Serv. C.* 21, 8 p. Mar. 1948. 22.5 Sy8

12092 PASQUALINO, A. Contribution to the study of the histogenesis of the cornea in mammals [cats and sheep]. (In Italian.) *Arch. Zool. Ital.* 31: 77-89. Ref. 1943/1946, pub. 1947. 410 Ar22  
French and English summaries.

12093 ROBIN, A. H. Infectious labial dermatitis (scabby mouth) in sheep and lambs. *So. Austral. Dept. Agr. J.* 52: 6-8. Aug. 1948. 23 So84

12094 SANDERSON, C. J. Control of scabby mouth [contagious Ecthyma] in sheep. *Land* [Sydney] 1921: 18. Sept. 3, 1948. 23 L22

12095 SANDERSON, C. J. Two forms of jaundice can cause serious losses in sheep. *Land* [Sydney] 1925: 18, 21. Oct. 1, 1948. 23 L22

12096 SAVI, P. Sheep pox in the province of Lecce. (In Italian.) *Zooprofilassi* 3: 94-100. Apr. 1948. 41.8 Z72

12097 SWAHN, O., and OBEL, A. L. Waxy muscle degeneration in lambs; its treatment with synthetic vitamin E preparation (Ephynalvet "Roche"). (In Swedish.) *Lantmannen* 32: 235. Apr. 3, 1948. 11 L234

12098 TAGLE V., I., and OLIVARES C., J. La fenotiacina y el yodo en el tratamiento de la dictiocaulosis ovina. *Agr. Tec.* 8: 36-54. June 1948. 464.9 C432B  
Dictyocaulus filaria.

12099 ZWILETITSCH, F. Zurückbleiben der nachgeburt bei der ziege. *Osterr. Kleintierzüchter* 1948: 458-459. (Concl.) Oct. 1948. 49 Os7

#### Miscellaneous

12100 BLIN, H. Le rendement laitier de la chèvre. *Monit. Agr.* 1(37): 19. Sept. 26, 1948. 14 M744

12101 CAYSSIALS, A. A. Selección y factores a tener en cuenta en la crianza ovina del Uruguay. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 236: 11; 238: 10. (Cont.) Sept. 16, 30, 1948. 9.9 G15B

12102 CHARON, J. Dispositifs pour l'élevage des chevreux. *Rustica* 20: 38. Jan. 19, 1947. 14 R92



- 12103 CHARON, J. Notre enquête caprine: comment entraver les chèvres. *Rustica* 21: 822. Nov. 21, 1948. 14 R92
- 12104 CHARON, J. Premiers chevreaux. *Rustica* 21: 131. Mar. 14, 1948. 14 R92
- 12105 CHARON, J. Le transport des chèvres. *Rustica* 21: 533. Aug. 1, 1948. 14 R92
- 12106 COON, J. M. Observations on corral skirting projects in Idaho and Oregon. Idaho Wool Growers Assoc. 27(23): 2-3. Nov. 10, 1948. 280.28 Id1
- 12107 CURTIS, R. S. How can the damage to sheep by dogs be reduced? *Carolina Farmer* 3(10): 14. Oct. 1948. 6 C223
- 12108 HAMILTON, L. H. Getting more from those sheep. *Macdonald Col. J.* 9(2): 2-3. Oct. 1948. 101 M144
- Selection and care.
- 12109 HINDMARSH, W. L. Safeguards that insure lambs are marketed. *Farmer & Settler Rev.* 1(5): 15. Oct. 1948. 23 F2262
- Chiefly care.
- 12110 HITCHCOCK, J. H. Crutching for beginners. *Austral. Junior Farmer* 1: 10-15. Oct. 1948. 23 Au782
- 12111 HITCHCOCK, J. H. Instruction in [sheep] shearing technique. *New Zeal. J. Agr.* 77: 187. Aug. 1948. 23 N48J
- 12112 JARL, F. American sheep raising. (In Swedish.) *Svenska Fåravelsför. Tidskr.* 27: 212-224. 1947. 45.9 Sv2
- 12113 MASSEY AGRICULTURAL COLLEGE. Sorting out dry ewes; use of vasectomised rams. (In Afrikaans and English.) *Merino Breeders' J.* 10(4): 19-20. Oct. 1948. 45.8 So8
- 12114 RINGLER. Woher stammen unsere ziegen? *Allgäuer Bauernbl.* 16: 251-252. Oct. 15, 1948. 18 AL53
- 12115 SHOR, M. The keeping of milk goats should be encouraged. (In Hebrew.) *Hassadeh* 28: 531-534. Sept. 1948. 26 H27
- 12116 THOMSON, G. A. Reducing losses of lambs in spring. *New Zeal. J. Agr.* 77: 125-128. Aug. 1948. 23 N48J
- 12117 WETTSTEIN, F. Milk production of goats and the fat content of goats' milk. (In Hungarian.) *Tejgazdaság* 5: 99-106. Aug. 1947. 44.8 T233
- English summary.
- 12118 WHITLOCK, R. Sheep and stone in Swaledale. *Field* 192: 382. Oct. 2, 1948. 10 F45
- 12119 WILSON, J. F. Wilson discusses sheep research findings. *Sheep & Goat Raiser* 1948: 12-13. Oct. 1948. 45.8 Sh3
- 12120 WOLFF, E. Starting with goats; on small farms a good supply of milk can be provided by these pets. *Family Herald & Weekly Star* 79(44): 5. Nov. 3, 1948. 7 F21
- 12128 FOLEY, W. T. Christen the No. 2 hog. *Farmer* [St. Paul], Dak. Ed. 66(19): 8. Oct. 2, 1948. 6 F2211D
- Minnesota No. 2, a new breed.
- 12129 HOFMANN-JENA, F. Schweinezucht. Berlin, Deutscher Zentralverlag, 1947. 32 p. (Bauernfreund. 44) 46 H672
- 12130 HUGHES, C. E. What's wrong with hybrid hogs? *Successful Farming* 46(12): 48, 80, 82. Dec. 1948. 6 Su12
- 12131 LONGWILL, A. Improvement of inherited qualities of breeding pigs. *New Zeal. J. Agr.* 77: 193, 195-196. Aug. 1948. 23 N48J
- 12132 MONTGOMERY, G. A. Consumers want new kind of hog. *Capper's Farmer* 59(12): 16, 45. Dec. 1948. 6 M693
- 12133 PARTANEN, J. On size of swine litter and their effect on swine production. (In Swedish.) *Prakt. Försöksverks.* 5: 14-16. Feb. 1948. 20 P88
- 12134 PEMBERTON, R. Swine type and marketing practices. *Amer. Hampshire Herdsman* 23(10): 30, 32, 116. Oct. 1948. 46.8 Am33
- Meat type.
- 12135 ROBERTS, E. B. Trends in British pig types. *Farmer's Mag.* 54(11): 42-43. Nov. 1948. 7 C165
- 12136 SEVERSON, H. Cuts pig market risks. *Successful Farming* 46(12): 144-145. Dec. 1948. 6 Su12
- Multiple-farrowing program.
- 12137 SPORNY, E. Some remarks on acclimatisation of English pig imports. (In Polish.) *Przegl. Hodowlany* 16: 146-148. June 1948. 49 P952
- English summary.
- Large White breed.
- 12138 STRINGHAM, E. W. Swine breeding of the future. *Weekly Mkt. News & Mod. Farmer* 26(46): 4; (47): 4. (Concl.) Nov. 11-18, 1948. 286.81 G762A
- 12139 WINTERS, L. M. Cruzamientos porcinos. *Rev. Ganad. [Habana]* 8(9): 31-32. Sept. 1948. 49 R321

#### Feeds and Feeding

- 12140 AXELSSON, J. The most adequate fiber content in diet for fattening swine. (In Swedish.) *Lantmannen* 32: 217-218, 226. Mar. 27, 1948. 11 L234
- 12141 BLIN, H. Comment il convient de distribuer la nourriture aux porcs. *Rustica* 21: 793. Nov. 7, 1948. 14 R92
- 12142 CAPUTO, J. R. Feed those hogs. *Christian Farmer* 1(12): 3, 6-7. Sept. 1948. 6 C462
- 12143 CRAM, W. W. Vitamin deficiency in winter can be corrected. *Milling & Feed* 29(10): 17. Oct. 1948. 298.8 C162
- Swine.
- 12144 FAULER, F. Erfolgreiche Schweineweide. *Kärntner Bauer* 98: 251-252. Aug. 1, 1948. 19 K14
- 12145 FORSHAW, R. P. Swine feeding. *Indus. and Devlpmt. Council. Canad. Meat Packers. Let. Canad. Livestock Prod.* 1948(8, i. e. 9): 2-3. Oct. 1948. 286.85 In2
- 12146 GEORGE, M. A. Pigs are born starved. *Capper's Farmer* 59(12): 34. Dec. 1948. 6 M693
- 12147 HEDEBRECHT, A. A., MACVICAR, R. W., and ROSS, O. B. A study of nutritional deficiencies in swine rations related to reproduction and lactation. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 103. 1948. 4 C82
- 12148 HEINZL, O. Die fütterung des wachsenden mastschweines. *Grüne* 76: 1098-1104. Oct. 15, 1948. 17 Sch9
- 12149 HOUT, F. VAN. Choses et autres relatives a l'alimentation porcine. *Courrier Hort.* 10: 559-561. Sept. 1948. 80 C834
- 12150 INNOCENZO, S. Feeding of swine and the vitamin factor. (In Italian.) *Agr. Romagna* 1948: 3. Sept. 20, 1948. 16 Ag828
- 12151 ISNARD, J. P. Les betteraves cuites pour le porc. *Monde Paysan* 3(120): 2. Oct. 15, 1948. 14 M742
- 12152 KRIDER, J. L. Recent advances in swine feeding. *Grain & Feed J. Consolidated* 101(10): 25. Nov. 24, 1948. 298.8 G762
- 12153 KRIDER, J. L. Recent studies on supplementing corn-soybean meal rations for swine. *Ill. Agr. Col. Ext. AG1348*, p. 21-22. Dec. 30, 1947. 275.29 IL62Pag
- 12154 KULCKE. Wieder futterkartoffeln für die schweinemast. *Landw. Wchnbl.* 138: 248. Sept. 11, 1948. 18 L2338

#### SWINE

##### Breeds and Breeding

- 12121 BLIN, H. Les races porcines anglaises: Berkshire et Tamworth. *Monit. Agr.* 1(43): 7. Nov. 7, 1948. 14 M744
- 12122 BOSTOCK, F. A pig breeding and feeding programme for the dairy farm. *Queensland Agr. J.* 67: 115-118. Aug. 1948. 23 Q33
- 12123 CANADIAN SWINE BREEDERS' ASSOCIATION. Canadian national record for swine. Yorkshire, Berkshire, Chester White, Tamworth, Hampshire, Poland China, Duroc Jersey, and Large Black. v. 58. Owen Sound, 1948. 847 p. 45.9 D71
- 12124 CORSINI, T. Historical and statistical notes on Wessex Saddleback swine and first results in Italy. (In Italian.) *Agr. Tosc.* 3: 272-276. (Concl.) Sept. 1948. 16 Ag827
- 12125 CRAFT, W. A. Progressive swine breeding. *Iowa Swine Breeders Dir.* 1948/49: 19, 36. 1948. 46.9 Io9
- 12126 DOMINGUES, O. Swine should be prolific. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 195-196. May/June 1948. 9.2 R324
- Also in *Rev. Agron.* 12: 109. Apr./June 1948. 9.2 R325
- 12127 ELLIOTT, R. Sterile sows are not accidents. *Ill. Agr.* 53(3): 14. Dec. 1948. 6 IL6



- 12155 LACEY, J. J. Small grains can make profitable pork. *Equity Co-op. Livestock News* 13(10): 4. Oct. 1948. 280.28 Eq5
- 12156 LEROY, A. M., and FEVRIER, R. Influence du mode de distribution des repas sur l'utilisation de la nourriture du porc. *Porc* 19(6): 44-46. Aug./Sept. 1948. 46.8 P822
- 12157 MCMILLEN, W. N. College and feed industry teamwork for improved swine feeding. *Feedstuffs* 20(49): 12, 16, 52-53. Dec. 4, 1948. 286.81 F322
- 12158 MILLER, R. C., and GOBBLE, J. L. More pork from less feed. *Sci. Farmer [Pa. Sta.]* 1948: 4-5, 9. Oct. 1948. 100 P383
- 12159 MULLER-LENHARTZ. Schweinemästungsfragen. *Tierärztl. Umschau* 2: 9. Jan. 1947. 41.8 T445
- 12160 NORDFELDT, S. Feed sugar beet as swine feed. (In Swedish.) *Försök och Forskning* 4: 148-149. Dec. 1947. 11 F77
- 12161 NORDFELDT, S. Use of whey as swine feed. (In Swedish.) *Försök och Forskning* 4: 128-129. Oct. 1947. 11 F77
- 12162 NORDFELDT, S. Vitamin requirements of swine. (In Swedish.) *Försök och Forskning* 4: 36-37. Mar. 1947. 11 F77
- 12163 PALOHEIMO, L. Spare clay for the pigs in the winter. (In Swedish.) *Prakt. Försöksverks* 4: 72. Oct. 1947. 20 P88
- 12164 SERGEEV, I. A. Intensive fattening of swine at a varied protein standard in the ration. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok.* 7: 179-183. 1948. 20 M857
- 12165 STEWART, H. A., and others. Nutrition of the baby pig. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 103. 1948. 4 C82
- G. Matrone, W. J. Peterson, and J. A. Weybrew, joint authors.
- 12166 STRANG, J. W. Pigs and poultry on the farm. *Gt. Brit. Min. Agr. Agriculture* 55: 343-345. Nov. 1948. 10 G79J
- Feeds and feeding.
- 12167 TRAVERSO, D. Swine raising with continuous feeding. (In Italian.) *Voce dei Campi* 3(22): 4. (To be cont.) Aug. 31, 1948. 16 V852
- 12168 VIANNA, A. T. Rations for swine. (In Portuguese.) *Chacaras e Quintais* 78: 347-350. Sept. 15, 1948. 9.2 C34
- 12169 WERNER, A. Wie gestalten wir die mastleistungsprüfungen bei schweinen? *Tierzucht* 2: 26-28. Feb. 1948. 49 T443
- 12170 WHATLEY, J. A., and WIGGINS, E. L. The effect of feeding method on inter-lot variation in feed lot performance in swine. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 104. 1948. 4 C82
- 12171 ZAVORAL, H. G. Feed & care for forced draft pork production. *Breeder's Gaz.* 113(12): 8. Dec. 1948. 49 B74
- Veterinary Medicine
- 12172 ANDREWS, J. S., and JONES, D. J. Effect of worm parasites on the growth of and feed utilization by pigs. (Abs.) *J. Parasitol.* 34(6, sup.): 13-14. Dec. 1948. 448.8 J824
- 12173 BERGE, S. Genetical research on the number of vertebrae in the pig. *Norges Landbrukshøgsk. Meld.* 39, 6 p. 1948. 44.9 N75
- 12174 BISHOP, W. H. Treatment of acute lameness in pigs with soluble sulphathiazole. *Austral. Vet. J.* 24: 256. Sept. 1948. 41.8 Au72
- 12175 BLIN, H. Comment on doit traiter les porcelets lors du sevrage: un écueil: la diarrhée. *Rustica* 21: 824. Nov. 21, 1948. 14 R92
- 12176 BOEBEL, F. W. Swine brucellosis. *Hereford Swine J.* 8(11): 14. Nov. 1948. 46.8 H42
- 12177 BORRELLI, G. The castration of swine. (In Italian.) *Prog. Vet.* 3: 36-37. Feb. 1, 1948. 41.8 P942
- 12178 BUFF, V. Hog-cholera. Some aspects of the disease in Brazil and bibliographical references. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 3: 313-326. June 1948. 41.8 Sa6
- English summary.
- 12179 CAMPOS ONETTI, R. Lucha contra la peste porcina. *Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg.* 7-48 H, 15 p. Apr. 1948. 15 H68
- 12180 CELLA, F. Congenital cystic microphthalmia in a litter of eight pigs. (In Italian.) *Nuova Vet.* 24: 145-150. May 15, 1948. 41.8 N922
- 12181 CORBETT, D. M. Control of diseases of pigs. *New Zeal. J. Agr.* 77: 285, 287-288. Sept. 1948. 23 N48J
- 12182 CORNEJO, P. M. El hog-cholera, la plaga fatal de nuestros cerdos, ocasiona también gran cantidad de víctimas en otro país hermano. *Rev. de Agr., Com. e Indus. [Panama]* 7(83): 14-17. July 1948. 8 R3291 Ecuador.
- 12183 EICHBAUM, F. W. Potency of the vermifugal action of hexylresorcinol [as affected] by detergents. In vitro experiments with hog *Ascaris*. (In Portuguese.) *Butantan. Inst. Mem.* 20: 203-218. 1947. 448.9 B97 German and English summaries.
- 12184 ERHART, M. B. Contribution to the study of the cartilagine corniculata (Santorini) and cuneiformis (Wrisbergi) in the larynx of *Sus scrofa domestica*. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 3: 195-202. Ref. June 1948. 41.8 Sa6
- English summary.
- 12185 FORTNER, J. Zwei verschiedene wege zum schutze der schweine gegen den rotlauf. *Berlin. u. München. Tierärztl. Wochenschr.* 1947: 141-143. Dec. 1947. 41.8 B45
- 12186 GARRETT, H. V. Use of sodium fluoride for worms. *Iowa Swine Breeders Dir.* 1948/49: 17, 34. 1948. 46.9 Io9
- 12187 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Nutritional anaemia of young pigs. *Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet* 1, 2 p. Apr. 1948. 41.9 G792A
- 12188 KOCMAN, J. The usefulness of the swift agglutination test using a drop for the intravital and postmortal diagnosis of erysipelas suis. (In Czech.) *Casopis Českoslov. Vet.* 3: 620-626. Ref. Nov. 10, 1948. 41.8 C27
- 12189 KORKMAN, N. Age of mother sow. (In Swedish.) *Försök och Forskning* 5: 38. May 1948. 11 F77
- Effect on sucklings.
- 12190 KOTLÁN, A. Studies on the life-history and pathological significance of *Oesophagostomum* spp. of the domestic pig. *Acta Vet. Hungarica* 1(1): 14-30. Ref. 1948. 41.8 Ac82
- 12191 KUBIN, G. Gehäuftes vorkommen des mastdarmvorfalles bei rhachitis. *Wiener Tierärztl. Monatschr.* 34: 703-704. Nov. 1947. 41 T345
- In swine.
- 12192 LENZ, G. Einiges über den rotlauf der schweine. *Berlin. u. München. Tierärztl. Wochenschr.* 1947: 145-146. Dec. 1947. 41.8 B45
- 12193 MACCAFERRI, O. Prophylaxis against infective diseases in swine. (In Italian.) *Nuova Vet.* 24: 191-193. June 1948. 41.8 N922
- 12194 MAIER. Das ferkelsterben. *Tierärztl. Umschau* 2: 243-245. Sept. 1947. 41.8 T445
- 12195 MALINGIEWICZ, C. A cleft of the right upper lip, the left lower lip and a partial cleft palate in a suckling pig. (In Polish.) *Med. Wet.* 4: 552-553. Sept. 1948. 41.8 M463
- 12196 MALINGIEWICZ, C. Polydactylism on all four limbs in a swine. (In Polish.) *Med. Wet.* 4: 553-554. Sept. 1948. 41.8 M463
- 12197 MANNINGER, R. Infectious gastroenteritis of swine. *Acta Vet. Hungarica* 1(1): 1-6. 1948. 41.8 Ac82
- 12198 MAZURKIEWICZ-SZULC, A. An interesting case of parasitic lesions in the spleen. (In Polish.) *Med. Wet.* 4: 603-605. Oct. 1948. 41.8 M463
- English summary.
- In swine.
- 12199 MAZZA, G. Prophylaxis in hog cholera. (In Italian.) *Risveglio Agr.* 7: 286-287. Aug. 15/31, 1948. 16 R49
- 12200 MONTGOMERY, G. A. New slant on pig losses. *Capper's Farmer* 59(12): 18. Dec. 1948. 6 M693
- Swine influenza.
- 12201 NIZNANSKY, F. Pasteurellosis in our pigs. (In Czech.) *Casopis Českoslov. Vet.* 3: 626-631. Nov. 10, 1948. 41.8 C27
- 12202 PENHA, A. M. Control of hog cholera. (In Portuguese.) *Biologico* 14: 97-101. Apr. 1948. 442.8 B529
- 12203 PHILLIPS, C. E., LONGFIELD, H. F., and MILTIMORE, J. E. Porcine infectious rhinitis experiments. *Canad. J. Compar. Med.* 12: 268-273. Oct. 1948. 41.8 C162
- 12204 RAYNAL, A. R. Nociones sobre la crfa de cerdos. *Chihuahua Ganad.* 2(3): 6; (4): 6. July 10/Aug. 10, 1948. 43.8 C43
- Includes control of parasites and diseases.



- 12205 REINEKE, E. P., MCMILLEN, W. N., and BRATZLER, L. J. The effect of mild thyroprotein stimulation on growth in swine. *Mich. Agr. Expt. Sta. Tech. B.* 209, 19 p. Ref. Oct. 1948. 100 M58S
- 12206 SANDSTEDT, H. The most common swine diseases in Sweden and measures against them. (In Swedish.) *Finsk Vet. Tidskr.* 54: 312-324. Sept. 1948. 41.8 F49
- 12207 SAXINGER, G. Impfortlauf nach serum-kultur-, kultur- und rotlaufmolvakzine-impfungen. Berlin. u. München. *Tierärztl. Wochenschr.* 1947: 143-145. Dec. 1947. 41.8 B45
- 12208 SCHREUR, E. Echinococcosis in Lijmers. (In Dutch.) *Tijdschr. v. Diergeneesk.* 73: 763-767. Oct. 15, 1948. 41.8 T431
- In swine.
- 12209 SHORB, D. A. Experimental infections of pigs with *Oesophagostomum dentatum* and *O. longicaudum*. (Abs.) *J. Parasitol.* 34(6, sup.): 26. Dec. 1948. 448.8 J824
- 12210 SIDOTI, A. Is the Kondo [vaccine] effective [against swine erysipelas]? (In Italian.) *Nuova Vet.* 24: 282-283. Aug. 1948. 41.8 N922
- 12211 SINDREY, R. J., and CREYKE, G. H. Swine erysipelas in ten-day-old piglets. *Vet. Rec.* 60: 567. Nov. 6, 1948. 41.8 V641
- 12212 SNOBL, A. Infectious paraplegia in pigs. (In Czech.) *Časopis Českoslov. Vet.* 3: 598-602. Oct. 25, 1948. 41.8 C27
- 12213 SPINDLER, L. A. Ascarids [*Ascaris lumbricoides*] a cause of loss to the meat industry through condemnation of swine (carcasses due to icterus). (Abs.) *J. Parasitol.* 34(6, sup.): 14. Dec. 1948. 448.8 J824
- 12214 STODER, K. W. Swine erysipelas. *Iowa Swine Breeders Dir.* 1948/49: 18, 35-36. 1948. 46.9 I09
- 12215 SUCHANEK, J. Colibacillosis porcellorum. (In Czech.) *Časopis Českoslov. Vet.* 3: 602-603. Oct. 25, 1948. 41.8 C27
- 12216 TRAUTMANN, A., and SILBER, H. Die beeinflussung des fettansatzes beim schwein durch epiphysan. *Tierärztl. Umschau* 2: 1-3. Jan. 1947. 41.8 T445
- 12217 VALLÉE, M. Vaccination active du porc contre le rouge. *Acad. Vét. de France. B.* 21: 301-302. July 1948. 41.9 R24
- 12218 WOJDYLO, P. The legal quarantine term for swine fever and the practice. (In Polish.) *Med. Wet.* 4: 491-492. Aug. 1948. 41.8 M463
- Poland.
- 12219 ZINN, R. Cholera. *Farm Q.* 3(3): 38-40, 125-129. Autumn 1948. 6 F22995
- Hog cholera control.

#### Miscellaneous

- 12220 ADAMSON, R. G. Lahainaluna streamlines swine production. *Hawaii Farm & Home* 11(9): 71. Oct. 1948. 25 H3191
- 12221 ANDERSON, A. L. Fitting and showing hogs. *Iowa Swine Breeders Dir.* 1948/49: 20-21, 36-37, 16. 1948. 46.9 I09
- 12222 AVERY, C. Development of fall pigs. *Poland China World* 35(12): 9. Dec. 1948. 46.8 Sw62
- 12223 BLIN, H. Elevez et engraissez un porc pour l'alimentation de votre famille. *Rustica* 21: 761. Oct. 31, 1948. 14 R92
- 12224 BLIN, H. L'exercice au grand air dans l'élevage du porc. *Rustica* 21: 741. Oct. 24, 1948. 14 R92
- 12225 BLIN, H. Pour élever des porcs. Paris, Éditions de Montsouris, 1947. 128 p. (Collection Rustica) 46 B61
- 12226 BLIN, H. Pratiquez l'élevage du porc à l'air libre. *Rustica* 21: 733. Oct. 10, 1948. 14 R92
- 12227 BURGOS, C. X. Pointers on what animals to raise. *Agr.-Com.-Indus. Life* 10(9): 6-7, 29, 31, 35. (To be cont.) Sept. 1948. 25 Ag8
- Swine and poultry feeding and care.
- 12228 CANO, A. E., and BRUNO VIDELA, P. H. Explotación porcina. *Rev. Mens. B. A. P.* 31(369): 65-70. Aug. 1948. 9 R326
- 12229 DENMARK. VETERINÆR OG LANDBOHØJ-SKOLE. LANDØKONOMISK FORSØGSLABORATORIUM. DYREFYSIOLOGISK AFDELING. 36th report on comparative experiments with swine from State recognized breeding centers 1946-47. (In Danish.) Denmark. Statens Husdyrbrug. Forsøgslab. Beret. 233, 136 p. 1948. 104 D41

- 12230 DUCK, R. W. Let's butcher a hog. *Rural New-Yorker* 98: 744, 745. Dec. 4, 1948. 6 R88
- 12231 FLORIDA. LIVESTOCK LOSS PREVENTION COMMITTEE. Tribulations of Porky, the pig; a picture story of how to avoid losses in handling hogs. *Fla. Agr. Col. Ext. C.* 86, 16 p. Oct. 1948. 275.29 F66C
- 12232 GALINDO, A. El cerdo. *Ceres [Valladolid]* 13(147): 6-7. Sept. 1, 1948. 15 C33
- 12233 GELE, M. L'élevage maraichin: les porcher-ies. *Monit. Agr.* 1(37): 19. Sept. 26, 1948. 14 M744
- 12234 HENDERSON, G. Brood sow and pig management. *Utah Farmer* 68(6): 15, 16, 18. Oct. 25, 1948. 6 D45
- 12235 HOFMANN. Bewertung der zuchtschweine bei herdbuchnahmen, auktionen und schauen. *Tierzucht* 2: 38-43. Mar. 1948. 49 T443
- 12236 HOLBERT, J. C. Thoughts in regard to the carcass contest at the National Barrow Show. *Hereford Swine J.* 8(11): 8-9. Nov. 1948. 46.8 H42
- 12237 HOSER, S. Activity of the Zootechnical Experiment Stations. (In Polish.) *Przegl. Hodowlany* 16: 237-241. Aug. 1948. 49 P952
- Swine research.
- 12238 IOWA SWINE PRODUCERS ASSOCIATION. Directory, 1948/49. Des Moines, 1948. 113 p. 46.9 I09
- 12239 LERY, G. Soins et alimentation de la truie nourrice. *Foyer Rur.* 11(48): 4. Sept. 26, 1948. 14 F83
- 12240 MCAULIFFE, W. S. 1948 State Baconer Carcass Competition. *So. Austral. Dept. Agr. J.* 51: 595-600. July 1948. 23 So84
- 12241 MCAULIFFE, W. S. Results of Yahl and Eudunda [Baconer Carcass] Competitions. *So. Austral. Dept. Agr. J.* 52: 15-18. Aug. 1948. 23 So84
- 12242 MENEUGH, H. Some views on carcass contest. *Poland China World* 35(12): 21-22. Dec. 1948. 46.8 Sw62
- 12243 PAARLBERG, H. Save labor on hog chores; appropriate equipment and careful planning mean greater financial returns to farmers. *Purdue Agr.* 40(2): 4-5. Nov. 1948. 6 P97
- 12244 PEMBERTON, R. L. Medium type hog still the best. *Wash. Farmer* 73: 840. Nov. 18, 1948. 6 R151
- Also in *Idaho Farmer* 66: 798. Nov. 4, 1948. 6 G282
- 12245 PISSALOUX, R. Problèmes d'élevage et d'alimentation du porc en Tunisie. *Tunisie Agr.* 49: 139-152. Sept./Oct. 1948. 24 T832
- 12246 RUSSELL, B. Big [swine] litters are no accident. *Country Gent.* 118(12): 18, 83-85. Dec. 1948. 6 C833
- 12247 SCACCAGLIA, R. Decalog of swine raising. (In Italian.) *Avvenire Agr.* 5: 229-230. Sept. 1948. 16 Av9
- 12248 VACCARI, E. Practical notes on swine raising. (In Italian.) *Allevamenti nel Mondo* 28: 119-121. May/June 1948. 49 AL56
- 12249 VEZZANI, V. A swine experimental center at Turin. (In Italian.) *Riv. di Zootec.* 21: 249-252. July 1948. 49 R52

#### ENTOMOLOGY

##### GENERAL

- 12250 ANDER, K. A few words on entomology at the University of Lund. *Opuscula Ent.* 13: 49-51. 1948. 421 Op7
- 12251 AUDRAS, G. Recherche des endogés dans la région lyonnaise. *Soc. Linn. de Lyon. B. Mens.* 16: 54-55. Mar. 1947. 505 L992B
- 12252 BALAZUC, J., and others. Une campagne bio-spéleologique dans le Bas-Vivarais (décembre 1945). *Soc. Linn. de Lyon. B. Mens.* 16: 35-50. Mar. 1947. 505 L992B
- P. de Miré, F. Pierre, A. Reymond, and J. Théodoridès, joint authors.
- Includes insects.
- 12253 BARKER, R. B. Forest insect survey. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4: 2-3. July/Aug. 1948. 423.92 C16F
- Prairie Provinces.



- 12254 BERNIS, F. Pajaros insectivoros. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 8-48 H, 16 p. Apr. 1948. 15 H68
- 12255 BRADLEY, J. C. Word madness. Brooklyn Ent. Soc. B. 43: 114-115. Oct. 1948. 420 B79  
On confusing terminology used in some entomological writings.
- 12256 BRELAND, O. P. Why not check the literature more carefully? Brooklyn Ent. Soc. B. 43: 132-134. Oct. 1948. 420 B79  
A plea to entomological research workers based on papers dealing with Pennsylvania mosquitoes.
- 12257 BRUCE, W. G. The progress of entomology. Fla. Ent. 31: 64-68. Sept. 1948, pub. Nov. 6, 1948. 420 F662
- 12258 BURR, M. Field notes from Anatolia. IV. Ankara. Ent. Rec. & J. Variation 60: 103-105. Oct. 1948. 421 En89
- 12259 DOUTT, R. L. The suitability of insect-conditioned plant tissues as habitats for successive insect species. Pan-Pacific Ent. 24: 121-122. July 1948. 421 P193
- 12260 FALES, J. H., and others. Storage of aerosols. Soap & Sanit. Chem. 24(11): 127, 129. Nov. 1948. 307.8 So12  
R. H. Nelson, W. H. Ball, and R. A. Fulton, joint authors.
- 12261 GAUTIER, C. Les insectes fossiles de l'ambre et l'antiquité. Soc. Linn. de Lyon. B. Mens. 16: 58-59. Mar. 1947. 505 L992B
- 12262 HARNISCH, O. Zum anaeroben glykogenabbau wirbelloser tiere. Biol. Zentbl. 66: 179-185. Ref. 1947. 442.8 B523  
Includes observations on *Tendipes* larvae, *Tenebrio molitor* and *Blatta orientalis*.
- 12263 HENKE, K. Ueber ordnungsvorgänge in der spätentwicklung der insekten. Rev. Suisse de Zool. 55: 319-337. Ref. July 1948. 410 R324
- 12264 HERMANN, F. Gen-koppelung und geschlechtsvererbung. Orion 3: 276-279. Aug. 15, 1948. 474 Or4  
Illustrated by insects.
- 12265 HESS, G. Die instrumente der insekten. Leben u. Umwelt 5: 33-40. Nov. 1948. 410 L49  
Adaptations of legs, mouth parts, etc.; organs for sound production.
- 12266 HOWES, P. G. North America's tropical forest. II. Turtox News 26: 220-224. Sept. 1948. 442.8 T86  
Forest fauna, including insects.
- 12267 HUFFAKER, C. B. An improved cage for work with small insects. J. Econ. Ent. 41: 648-649. Aug. 1948. 421 J822
- 12268 KOZHANCHIKOV, I. V. Intraspecific biological forms in animals. (In Russian.) Priroda 37(3): 36-42. Ref. Mar. 1948. 410 P933  
Chiefly investigations on insects.
- 12269 LAL, K. B. Indian entomology at crossroads. n. p., Ent. Soc. of India, 1948. 10 p. 422.6 L15
- 12270 LA RIVERS, I. Some Hawaiian ecological notes. Wasmann Collect. 7: 85-110. Aug. 1948. 442.8 W28  
Includes insects.
- 12271 LEBEDEV, D. V. Azotobacter and insects. (In Russian.) Priroda 37(5): 45-46. May 1948. 410 P933  
Bacterial symbionts.
- 12272 MARCUS, H. La embriogenesis de Aethalion, termitas y hormigas con una comparación de la anatomía de los insectos y vertebrados. Folia Univ. 1(1): 97-118. Dec. 1947. 516 F71  
German summary.
- 12273 MARCUS, H. Los estados biológicos. Folia Univ. 1(1): 45-65. Ref. Dec. 1947. 516 F71  
German summary.  
Social insects.
- 12274 MARCUS, H. De la evolución de los órganos respiratorios en los insectos holometabólicos. Folia Univ. 1(1): 83-96. Dec. 1947. 516 F71  
German summary.
- 12275 MORRISON, W. F. The use of celloidin in mounting insect dissections. Turtox News 26: 227. Sept. 1948. 442.8 T86
- 12276 PFLUGFELDER, O. Über die ventraldrüsen und einige andere inkretorische organe des insektenkopfes. Biol. Zentbl. 66: 211-235. Ref. 1947. 442.8 B523
- 12277 PIERCE, G. W. The songs of insects. Cambridge, Mass., Harvard U. Press, 1948. 329 p. 422 P61
- 12278 WILLIAMS, C. B. The Rothamsted light trap. Roy. Ent. Soc. London. Proc. Ser. A: Gen. Ent. 23: 80-85. Sept. 15, 1948. 420 L84Pa
- 12279 WRIGHT, M. Notes on swarming of certain species of insects. Tenn. Acad. Sci. J. 23: 255-258. Oct. 1948. 500 T25A

## GENERAL - ECONOMIC

- 12280 ADMONT, P. H. Un insecticide polyvalent: le phosphémol 314. B. des Engrais 20: 425-426. Sept. 1948. 57.8 B87  
Parathion (?).
- 12281 AMSTEIN, W. G., and PICKETT, W. F. Spray schedule for home fruit production. Kans. State Col. Agr. Ext. C. M-34, 6 p. 1947. 275.29 K13ExM
- 12282 ASSOCIATION OF BRITISH INSECTICIDE MANUFACTURERS. Directory, 1948. London, 1948. 92 p. 225 As722
- 12283 BARTOLO, A. Equipment and use of DDT. (In Italian.) Ann. d'Ig. [Rome] 57: 363-368. Nov./Dec. 1947. 449.8 An72
- 12284 BENTLEY, G. M. Tennessee quarantines, rules and regulations pertaining to insect pests and plant diseases. Tenn. Dept. Agr. Div. Insect and Plant Dis. Control. B. 101, 30 p. Mar. 1948. 423 T25
- 12285 BEVILACQUA, I. Fruit plant protection. (In Italian.) Campagnolo 1948(2): 4-5. Feb. 1, 1948. 16 C15  
Insect and disease control.
- 12286 BLACKALLER VALDEZ, A. Trabajo de experimentación de insecticidas, por surcos sorteados, sobre frijol. Chapingo 23: 40-43. (Concl.) July 1948. 102 C36
- 12287 BLETON, C. Toxiques d'hier et d'aujourd'hui dans la lutte contre les insectes parasites. Soc. d'Hort. et d'Acclim. du Maroc. B. 33: 46-51. Second Quart. 1948. 81 So2
- 12288 BOWEN, C. V. A second list of publications on benzene hexachloride. U. S. Bur. Ent. and Plant Quar. E-755, 38 p. Sept. 1948. 1.9 En83
- 12289 BRANDÃO FILHO, J. S. Biological damages produced in plants or their parts. (In Portuguese.) Brazil. Serv. de Econ. Rur. B. 4/5(6/7): 113-154. Jan. 1946/Dec. 1947. 281.9 B73B  
Insects and diseases.
- 12290 BROWNING, H. C., and others. The biological activity of DDT and related compounds. Canad. J. Res. Sect. D, Zool. Sci. 26: 282-300. Ref. Oct. 1948. 470 C16D  
F. C. Fraser, S. K. Shapiro, I. Glickman, and M. Dubrûle, joint authors.  
Toxicity of 68 compounds to *Drosophila melanogaster* studied.
- 12291 BROWNING, H. C., SHAPIRO, S. K., and DUBRÛLE, M. The insecticidal activity of DDT and related compounds against different insect species. Canad. J. Res. Sect. D, Zool. Sci. 26: 301-306. Ref. Oct. 1948. 470 C16D  
DDT and its fluoro- and methyl analogues, its carbinol and carbinol acetate, and monochlor-DDT (1-p-chlorophenyl-1-phenyl-2,2,2-trichloroethane) tested against *Sitophilus granarius*, *Tribolium confusum*, *Ephestia kühniella*, *Oncopeltus fasciatus*, and *Blattella germanica*.
- 12292 BRUNI, G. Economical methods for pest control in crops. (In Italian.) Macch. e Motori Agr. 6: 211-215. May 1948. 58.8 M13
- 12293 BUCKLEY, M. S. Mill sanitation and insect control. Northwest. Miller, Milling Prod. Sect. 235(11): 1a, 21a-22a, 24a, 26a-27a. Sept. 14, 1948. 298.8 N81
- 12294 BUSHLAND, R. C., WELLS, R. W., and RADELEFF, R. D. Effect on livestock of sprays and dips containing new chlorinated insecticides. J. Econ. Ent. 41: 642-645. Aug. 1948. 421 J822  
Toxicity of DDT, DDD, methoxychlor, benzene hexachloride, toxaphene and chlordane to livestock.
- 12295 CARDENOSA BARRIGA, R. Algo mas sobre el gammexane. Agr. Trop. 4(10): 51-53. Oct. 15, 1948. 26 Ag8  
Toxicity to livestock.
- 12296 CAUWENBERGHE, E. VAN. L'emploi du D.D.T. en arboriculture fruitière et en pépinière. Fruit Belge 16: 155-159. Oct. 1948. 80 F9493



- 12297 CHAMBERS, E. L. Raspberry pest control. *Wis. Hort.* 39: 74-75. Nov. 1948. 80 W752
- 12298 CLERENS, A. New substitute for nicotine. *Aphitox.* (In Flemish.) *Tuinbouwberichten* 12: 44-45. Mar. 15, 1948. 80 T817
- 12299 COMBE LOERO, I. Lista de los principales insectos dañinos a las plantas utiles que han sido determinados en el Peru por el Departamento de Entomologia. Lima, Peru. Estac. Expt. Agr. de La Molina. Divulg. Agr. 9, 54 p. Aug. 1947. 102.5 L622D  
In English and Spanish.
- 12300 COOMBER, H. E. The chemical evaluation of pyrethrum flowers (collaborative work to establish an international method). *Pyrethrum Post* 1: 16-19. July 1948. 421 P99
- 12301 COTTON, R. T. Research to be conducted under Research and Marketing Act on control of stored-grain and milled-cereal insects. *Assoc. Oper. Millers B.* 1948: 1701-1702. Oct. 1948. 298.9 As7
- 12302 DAHL, A. H. New plans for vector control in California. *Natl. Malaria Soc. J.* 7: 231-235. Sept. 1948. 448.9 N213
- 12303 DAMMERMAN, K. W. The fauna of Krakatau, 1883-1933. K. Nederland. Akad. van Wetensch. Afd. Natuurk. Verhandel. Tweede Sectie, v. 44, 594 p. 1948. 503 Am8V  
A comprehensive study of the repopulation of the islands of the Krakatau group following the eruption of 1883, including a comparison of the fauna with that of other islands and waste areas, and an investigation of the biocoenoses. The taxonomic part includes a listing of all present forms, including: Insecta, p. 354-492; Myriapoda, p. 493-494; Arachnida, p. 494-508; Isopoda (Oniscidae), p. 510-511.
- 12304 DELAWARE. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Delaware's fruit spray schedules for 1948. *Del. U. Agr. Ext. C.* 57, 7 p. Mar. 1948. 275.29 D37C
- 12305 DESCHAPELLES, J. B. Insectos que dañan los granos durante el período de su almacenaje: su control *Agronomía [Habana]* 8(8): 8-9. Aug. 1948. 8 C893
- 12306 EICHLER, W. Die bedeutung der DDT-präparate für die parasitenbekämpfung in der veterinärmedizin. Berlin u. München. Tierärztl. Wochenschr. 1948: 16-19, 42-44, 54-56. Feb., Apr.-May 1948. 41.8 B45
- 12307 FARRAR, M. D., O'KANE, W. C., and SMITH, H. W. Vacuum dusting of insects and plants. *J. Econ. Ent.* 41: 647-648. Aug. 1948. 421 J822
- 12308 FOSTER, A. C. Phytotoxic effect of DDT and other chlorinated hydrocarbon insecticides. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 143-144. 1948. 4 C82
- 12309 FREEMAN, J. A. The insect menace to stored products. *New Biol.* 4: 48-73. 1948. 442.8 J63
- 12310 FREW, S. Controlling fruit pests and diseases. *New Zeal. J. Agr.* 77: 129. Aug. 1948. 23 N48J
- 12311 FRIEDL, A. DDT und gesarol. *Nach der Arbeit* 1948(16): 1-2. Aug. 3, 1948. 80 N11
- 12312 GAINES, J. C., and DEAN, H. A. Tests of insecticides for the control of several cotton insects. *J. Econ. Ent.* 41: 548-554. Aug. 1948. 421 J822  
Control of *Psallus seriatus*, *Anthonomus grandis*, *Heliothis armigera* and *Aphis gossypii* with parathion, benzene hexachloride, DDT, chlordane, toxaphene, and sulfur.
- 12313 GATES, J. R. Insects and your woodlot. *O. A. C. Rev.* 61(1): 42, 44, 46. Oct. 1948. 276.8 On8
- 12314 GIULIANELLI, E. Granary insects. (In Italian.) *Agr. Romagnola* 1948. 1. Sept. 20, 1948. 16 Ag828
- 12315 GOIDANICH, G. Control of insects, difficult operation. (In Italian.) *Gior. di Agr.* 58: 318. Nov. 14, 1948. 16 It1G  
Chart for spraying, p. 317.
- 12316 GOLDENSON, J., and SASS, S. Determination of the insect repellent, Dimalone. *Anal. Chem.* 20: 1118-1120. Ref. Nov. 1948. 381 J825A
- 12317 GOTZ, B. Rebschädlinge. *Landpost* 4(5): 1-3. Mar. 10, 1948. 18 L2329
- 12318 GOULD, G. E. Solving insect problems in food plants. *Food Packer* 29(13): 36, 38, 40. Dec. 1948. 286.83 C165
- 12319 GRAHAM, C. Summary of remarks on fruit insects. *Md. State Hort. Soc. Proc.* 50: 38-40. 1948. 81 M36
- 12320 GREAT BRITAIN. IMPERIAL INSTITUTE. CONSULTATIVE COMMITTEE ON INSECTICIDE MATERIALS OF VEGETABLE ORIGIN. Quarterly bibliography of insecticide materials of vegetable origin, No. 40 (July to September 1947), compiled by R. M. Johnson. *Gt. Brit. Imp. Inst. B.* 45: 369-373. Oct./Dec. 1947. 26 G79
- 12321 HAMMER, O. H., and DAVIDSON, J. W. DN-289 enjoys broad range of usefulness. *Down to Earth* 4(3): 10. Winter 1948. 381 D75
- 12322 HASKINS, F. New lab at Summerland [British Columbia]; better and faster methods of destroying orchard pests are being plotted by scientists with improved facilities in the Okanagan. *Family Herald & Weekly Star* 79(46): 5, 25. Nov. 17, 1948. 7 F21  
Dominion Government Entomological Laboratory.
- 12323 HELLEMONT, K. VAN. A new insecticide? Do you know "666"? (In Flemish.) *Cult. en Handel* 14: 565-566. Sept. 1948. 80 C892
- 12324 HENSILL, G. S. New insecticides prove value. *Fruit & Veg. Rev.* 9(9): 22. Dec. 1948. 80 C1224
- 12325 HETRICK, R. A. Tests with new insecticides. *Amer. Camellia Ybk.* 1948: 127-128. 97.31 Am32
- 12326 HEY, G. L. "Smokes" for the amateur. *North. Gard.* 2: 529-530. Oct. 1948. 80 N816  
Insecticidal smokes containing DDT, benzene hexachloride, and azobenzene.
- 12327 HOLLAND, H. Let the bugs do it. *Good Earth Mag.* 2(12): 6-7. Oct. 1948. 6 G59  
Biological control of insect pests.
- 12328 HOWE, R. W. Insects in warehouses. *Food [London]* 17: 325-327. Nov. 1948. 389.8 F738  
Second of two articles.
- 12329 HUFFAKER, C. B. A technique for translocation of DDT in plants. *J. Econ. Ent.* 41: 650-651. Aug. 1948. 421 J822
- 12330 HUS, P. Winterspraying [of fruit trees]. (In Dutch.) *Tuinbouw* 3: 44-48. Feb. 1948. 80 T815
- 12331 HYMAN, J., & COMPANY. Revised chlordane bibliography, 1948. 9 p. 423 H99
- 12332 JANES, R. L. DDT and alfalfa seed production. *Mich. Farmer* 210: 347. Nov. 20, 1948. 6 M58
- 12333 JONES, D. P. Insect and other pests of wheat. *Farming [Norwich]* 9: 311-314. Oct. 1948. 10 F2236  
The first of three articles.
- 12334 JØRSTAD, I., and SCHØYEN, T. H. Spraying of fruit trees and berry bushes. (In Norwegian.) *Norsk Hageselskap. Minneliste for Hagedyrkere* 1948: 43-47. 86 N81
- 12335 KALMBACH, E. R., and LINDUSKA, J. P. Controls beyond control. I-II. *North Amer. Wildlife Conf. Trans.* 13: 112-128. Ref. 1948. 412.9 N814  
I. Operations against birds and mammals, by E. R. Kalmbach. II. Insecticides vs. wildlife, by J. P. Linduska.
- 12336 KJELLANDER, E. A blessed discovery. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland* 18(45): 5. Nov. 6, 1948. 11 J762  
DDT.
- 12337 KLANG, C. A. Spraying of fruit trees and berry bushes. (In Swedish.) *Försök och Forskning* 4: 44. Mar. 1947. 11 F77
- 12338 KRETZSCHMAR, G. P. Soybean insects in Minnesota with special reference to sampling techniques. *J. Econ. Ent.* 41: 586-591. Aug. 1948. 421 J822
- 12339 KUENEN, D. J. Before and now, control of the apple blossom weevil [*Anthonomus pomorum*] and the apple saw fly [*Hoplocampa testudinea*]. (In Dutch.) *Tuinbouw* 3: 74-76. Mar. 1948. 80 T815
- 12340 KURIR, A. Laboratoriumsversuche mit DDT-präparaten. *Allg. Forst- u. Holzwirtschaft. Ztg.* 59: 142-144. Sept. 1948. 99.8 AL53
- 12341 LARUE, P. Poudrage par fusée. *Prog. Agr. et Vitic.* 1948: 236. Oct. 31, 1948. 14 P94
- 12342 LEEFMANS, S. An informative trip in the United States, in the field of insect control. (In Dutch.) *Landbouwk. Tijdschr.* 59: 350-351. Aug./Sept. 1947. 105.2 Or3
- 12343 LEPAGE, H. S., GIANNOTTI, O., and ORLANDO, A. General considerations on the insecticide benzene hexachloride (BHC or 666). (In Portuguese.) *Biologico* 14: 91-96. Apr. 1948. 442.8 B529
- 12344 LEPAGE, H. S., GIANNOTTI, O., and ORLANDO, A. R. B. 1018 - a new insecticide. (In Portuguese.) *São Paulo. Inst. Biol. Arq.* 18: 1-30. Aug. 1947. 442.9 Sa6  
English summary.  
Tested for toxicity to insects and plants.



- 12345 LIEBERMANN, J. Plagas agrícolas y frutícolas del Chubut. Pampa Argentina 22(254): 6-7. Oct. 1948. 9 P19  
Insects.
- 12346 LIEBSTER. Erlauben uns die neuartigen kontakt-insektizide die einsparung der winterspritzung im obstbau? Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 80-82. May/June 1948. 464.9 N11
- 12347 LØKEN, A., and FJELDDALEN, J. Are DDT, Hexa and E605 harmless for people and cattle? (In Norwegian.) Norsk Hageetidend 64: 190-192. Oct. 1/15, 1948. 80 N81
- 12348 MAAN, W. J. Helicopter in insect control. (In Dutch.) Tuinbouw 3: 49-53. Feb. 1948. 80 T815
- 12349 MACCREARY, D. Results with insecticides for control of cucurbit insects. Peninsula Hort. Soc. Trans. 61: 65-70. 1947. 81 P37
- 12350 MACDONALD, J. E., and BRADLEY, G. A. Forest insect survey. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4: 2. July/Aug. 1948. 423.92 C16F  
Ontario.
- 12351 MACIAS, P. E. Nuevos insecticidas en el control de las plagas del algodón. Manabí. Consorcio de Cent. Agr. B. 55: 45-51. July/Sept. 1948. 9.5 M31
- 12352 MARCHNER, G. Tierische schädlinge an blättern und trieben unserer obstgehölze. Gart.-Z. Illus. Flora 71: 150-152. Oct. 1948. 80 G1991
- 12353 MARSHALL, J. Oil spray investigations in British Columbia. J. Econ. Ent. 41: 592-595. Aug. 1948. 421 J822  
Control of Paratetranychus pilosus, Phenacoccus aceris and Aspidiotus perniciosus. Effects on apple trees.
- 12354 MARTIN, H. Some biochemical aspects of insecticide research. Research 1: 640-646. Ref. Nov. 1948. 472 R31
- 12355 MERRITT, R. P., and MITCHELL, W. Pyrethrum dispersion with the Todd insecticidal fog applicator. Pyrethrum Post 1: 15-16. July 1948. 421 P99
- 12356 MORGAN, W. L. Control of tomato pests. Agr. Gaz. N. S. Wales 59: 421-422. Aug. 1948.
- 12357 MOSSOP, M. C. Report of the Division of Entomology for the year ending 31st December, 1947. Rhodesia Agr. J. 45: 230-248. May/June 1948. 24 R34
- 12358 NAJJAR, H. Spraying for pest control. (In Arabic.) Syria. Ext. Serv. C. 2, 8 p. Apr. 1947. 22.5 Sy8  
English summary.
- 12359 NAJJAR, H. White washing of fruit trees. (In Arabic.) Syria. Ext. Serv. C. 6, 6 p. June 1947. 22.5 Sy8
- 12360 NEVES, C. M. B. Contribution to the knowledge of the entomological fauna of the cork oak (Quercus suber L.). (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 10: 444-447. July 1948. 309.9 J96  
English summary, p. LXXVI.
- 12361 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Spraying guide for pest & disease control. Sydney, Tennant, 1948. 36 p. 464.4 N47  
Fruit spraying program.
- 12362 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGY BRANCH. Insect pest survey for the year ending 30th June, 1947. n. p., 1947? 20 p. 423.92 N472
- 12363 NICHOLSON, A. E. Conquering orchid pests. Amateur Gard. 65(3355): 10. Aug. 31, 1948. 80 Am13
- 12364 NIELSEN, O. Danger of poisoning from parathion. (In Danish.) Gart. Tid. 64: 551-552. Nov. 17, 1948. 80 G192
- 12365 O'NEILL, W. J. Parathion-How it is working. Better Fruit 43(6): 11-12. Dec. 1948. 80 B46
- 12366 ORR, R. T. Insect control in bakery plants. Cracker Baker 37(11): 50. Nov. 1948. 389.8 C84
- 12367 PARKER, W. B. Seventeen years' progress in development of the "vapo-duster." Agr. Chem. 3(11): 22-24. Nov. 1948. 381 Ag8  
Fog spraying of insecticides.
- 12368 PENABAD FRAGA, M. Los enemigos del agro y del abasto. Control de Plagas 10: 141-142. Nov. 1948. 464.8 C76
- 12369 PICKETT, W. F. A survey of 1946 spray results. Kans. State Hort. Soc. Bien. Rpt. 49: 33-37. 1948. 81 K13
- 12370 PRATOLONGO, U. Problems of insect control. (In Italian.) Ricerca Sci. 18: 746-755. July 1948. 475 H1
- 12371 REGIONAL CONFERENCE ON LIVESTOCK AND CROP PEST CONTROL. Report of conference, Chicago, June 24-26, 1948. Washington, U. S. Ext. Serv., 1948. 24 p. 1.913 C3R265
- 12372 ROBB, T. R. 4-H Club members study insects. Wyo. Stockman-Farmer 54(11): 7. Nov. 1948. 6 W992
- 12373 RUBTSOV, I. A. Biologicheskiĭ metod bor'by s vrednymi nasekomymi [Biological method of control of injurious insects]. Moskva, Sel'khozgiz, 1948. 411 p. 423 R82
- 12374 SAHA, J. C. Plant quarantine. Sci. and Cult. 14: 92-97. (Concl.) Sept. 1948. 475 Sci24
- 12375 SCHØYEN, T. H., and JØRSTAD, I. Advice on the most important pests and diseases of cabbage, carrots and potatoes. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1948: 29-30. 86 N81
- 12376 SEARLS, E. M. Control of insects and rodents in dairy plants. Milk Plant Monthly 37(11): 83-84. Nov. 1948. 44.8 C864
- 12377 SHARP, S. S. Toxicity of azobenzene and certain related compounds to insects. Iowa State Col. J. Sci. 23: 78-79. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 12378 SHERMAN, M. Relative toxicity of the isomers of benzene hexachloride to several insects. J. Econ. Ent. 41: 575-583. Aug. 1948. 421 J822  
Tests with Tribolium castaneum, Oncopeltus fasciatus, Epilachna varivestis, Prodenia eridania, and Hyphantria textor. Benzene heptachloride also tested.
- 12379 SHEWELL-COOPER, W. E. I still believe in grease-bands. Smallholder 80(2010): 13. Oct. 8, 1948. 10 Sml  
Insect pest control on trees.
- 12380 SHPET, G., and KONONOVA, N. Antimalarial dusting of carp ponds with DDT. (In Russian.) Priroda 37(3): 70-71. Mar. 1948. 410 P933  
Effects on fish.
- 12381 SHWEIG, K. Experiments for the control of insect pests in the vegetable gardens in 1947. (In Hebrew.) Hassadeh 28: 463-464. Aug. 1948. 26 H27
- 12382 SIMMONDS, F. J. The biological control of pests in the West Indies. Caribbean Comn. Monthly B. 1(12): 17-18. July 1948. 280.9 C19
- 12383 SMITH, F. F., LUNG, P. H., and FULTON, R. A. Parathion in aerosols for the control of pests on greenhouse ornamentals. U. S. Bur. Ent. and Plant Quar. E-759, 8 p. Oct. 1948. 1.9 En83
- 12384 SMITH, F. F., FULTON, R. A., and LUNG, P. H. Recent developments in the control of greenhouse pests by liquefied-gas aerosols. J. Econ. Ent. 41: 624-631. Ref. Aug. 1948. 421 J822  
Preparations of DDT, parathion, and hexaethyl tetraphosphate effective.
- 12385 SMITH, F. F., LUNG, P. H., and FULTON, R. A. Some new insecticides and new control methods for pests of greenhouse vegetables. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 219-229. 1948. 81 V52  
Tests with aerosols containing DDT and tetraethyl pyrophosphate.
- 12386 SMITH, R. C. Recent developments in insect control. Kans. State Hort. Soc. Bien. Rpt. 49: 110-118. Ref. 1948. 81 K13
- 12387 SMITH, R. C. What we've learned about DDT. Kans. State Bd. Agr. Bien. Rpt. (1945/46) 35: 59-73. 1948. 2 K13R  
Application.
- 12388 STARKER, C. H. Cattle, sheep losses reduced by spray, dust. Pacific Northwest Co-op. 13(11): 12. Nov. 1948. 280.28 P112
- 12389 STEINER, L. F., and others. Studies of new insecticides for control of apple insects. Ind. Hort. Soc. Trans. (1947) 87: 29-50. 1948. 81 In2  
S. A. Summerland, H. J. McAlister, and J. E. Fahey, joint authors.  
Tests with DDT, parathion, etc., for control of Carpocapsa pomonella, mites, and Argyrotaenia velutinana.
- 12390 STOY, O. Spraying and spraying injuries to fruit trees. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1948: 110-113. 86 Sv2F
- 12391 SWARTENBROEKX, J. M. L. Some recent insecticides and fungicides. (In Flemish.) Cult. en Handel 14: 163-164. Mar. 1948. 80 C892



- 12392 TAGGART, R. S. Insect, rodent control in ice cream plants. Confectionery-Ice Cream World 40 (24): 14-15. Dec. 10, 1948. 389.8 C767
- 12393 TUNBLAD, B. Control of pests. (In Swedish.) Trädgårdstidningen 20(5/6): 12-13, 34. Mar. 1948. 80 T67
- On fruit and berry bushes.
- 12394 TUNBLAD, B. From the control preparation front. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 57-62. 86 Sv2
- Pest control.
- 12395 ULMAN, P. T. Our foreign pests. Outdoor Ind. 15(11): 3, 6. Nov. 1948. 279.8 Ou82
- Insects.
- 12396 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions, Dominion of Canada. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 514, Sup. 2, 1 p. Sept. 17, 1948. 1.9 F73
- 12397 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Republic of Turkey. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 451, Sup. 3, 1 p. Sept. 20, 1948. 1.9 F73
- 12398 U. S. DEPT. OF AGRICULTURE. Save farm grain by fumigation! U. S. D. A. CFCM-1, 2 p. Jan. 1948. 1.90 A2C11
- Control of insects in grain bins.
- 12399 U. S. NAVY DEPT. BUR. OF MEDICINE AND SURGERY. Epidemiology of the diseases of naval importance in Korea. Washington, 1948. 89 p. Ref. (Navmed P-1289) 153,46 Ep425
- Prepared by Tsai-yu Hsiao.
- Arthropods of medical importance, p. 36-58.
- 12400 VANDERWAEREN, R. Spraying and dusting. (In Flemish.) Tuinbouwberichten 12: 57-58. Apr. 15, 1948. 80 T817
- 12401 WAIN, R. L., and MARTIN, A. E. Determination of p,p'-DDT in commercial samples. Analyst 73: 479-483. Ref. Sept. 1948. 382 An1
- 12402 WAIN, R. L. Recent developments in horticultural chemistry. Roy. Inst. Chem. Gt. Brit. and Ireland. J. and Proc. 1948: 258. Oct. 1948. 382 In7
- Insecticides and fungicides.
- 12403 WEINMAN, C. J. Peach insect problems. Ind. Hort. Soc. Trans. (1947) 87: 21-25. 1948. 81 In2
- 12404 WHIFFEN, D. H., and THOMPSON, H. W. Infra-red analysis of stereoisomers of "benzene hexachloride" (hexachlorocyclohexane). Chem. Soc. J. 1948: 1420-1422. Sept. 1948. 382 L84J
- 12405 WOGLUM, R. S. Summary of pest control conditions. Calif. Citrog. 34: 78-79. Dec. 1948. 80 C125
- ### APICULTURE AND APIS MELLIFERA
- 12406 ANDRAL, M. L. La loque américaine et les sulfamides. Rev. Franc. d'Apic. 1948: 687-689. Oct. 1948. 424.8 R329
- 12407 ANWYL, J. E. The work in Wales. Welsh Bee J. 3: 110-115. Oct. 1948. 424.8 W462
- 12408 BALL, E. Taking bee samples. Good Bee-Keeping 3: 123. Sept. 1948. Ent. Sub-Br. Libr.
- A new invention.
- 12409 BAMBERGER. Honigt der wald? Imkerfreund 2: 14-17. Feb./Mar. 1947. 424.8 Im43
- 12410 BAMBERGER, G. Die bienen regulieren das kleinklima ihrer beute. Imkerfreund 3: 25-27. Apr. 1948. 424.8 Im43
- 12411 BESSONET, E. C. ABBA [American Bee Breeders' Association] rounds out its first year—a new approach in buyer service. South. Beekeeper 2(10): 9, 14. Oct. 1948. Ent. Sub-Br. Libr.
- 12412 BONE, D. Numbers. Bee Craft 30: 68-69. Aug. 1948. 424.8 B3925
- Beekeeping records.
- 12413 BOUCHARDEAU, C. Les travaux scientifiques apicoles effectués dans le Sud-Est de la France en 1948. Rev. Franc. d'Apic. 1948: 679-680. Oct. 1948. 424.8 R329
- 12414 BRAUN, E. Average production about 100 pounds. West. Canada Beekeeper 11(9): 6. Sept. 1948. 424.8 W525
- 12415 BURNSIDE, C. F., and REVELL, I. L. Observations on nosema disease of honey bees. J. Econ. Ent. 41: 603-607. Aug. 1948. 421 J822
- 12416 CABEZAS, J. El audaz timo del Katil-Ackar. Valencia Avíc. 5(5): 23-24. June 1948. 47.8 V23
- Impure sulfur sold as bee medicine.
- 12417 CAILLAS, A. Le blocage de la ponte. Rev. Franc. d'Apic. 1948: 653. Aug./Sept. 1948. 424.8 R329
- 12418 CALE, G. H. His hunch saved an industry. Amer. Bee J. 88: 534-536. Nov. 1948. 424.8 Am3
- Work of L. F. Childers on controlling American foul-brood with sulfa drugs.
- 12419 CARAYON, F. Pèse ruche "Le Rationnel." Rev. Franc. d'Apic. 1948: 652-653. Aug./Sept. 1948. 424.8 R329
- 12420 CARON DE SAUMERY, P. Sur la forme et les dimensions des cadres. Apiculteur 92: 229-230. Sept. 1948. 424.8 Ap3
- 12421 CARTER, G. A. Diseases and digressions. Bee Craft 30: 86. Oct. 1948. 424.8 B3925
- Suggested certificate of health when selling bees in Great Britain.
- 12422 CHAFFARD. Les insecticides et les abeilles. Cong. Pomol. de France. Sess. 78: 106-118. 1947. 93.09 C7643
- Discussion, p. 118-122.
- 12423 CHANCOGNE, N., and others. L'apiculture et les traitements antiparasitaires des cultures en 1947. Acad. d'Agr. de France. Compt. Rend. 34: 782-786. June 30/July 7, 1948. 14 P215Bc
- P. Lavie, J. Louveaux, and G. Viel, joint authors.
- 12424 COLLINS, T. Honey bees as pollinators. Bee Craft 30: 78. Sept. 1948. 424.8 B3925
- 12425 CUMMING, A. R. Individuality in beekeeping. Scot. Beekeeper 24: 171-172. Oct. 1948. 424.8 Sco8
- 12426 DAULTON, K. C. A newcomer looks in. Amer. Bee J. 88: 537. Nov. 1948. 424.8 Am3
- 12427 DAULTREY, A. A. Bees in India. Bee Craft 30: 76-77. Sept. 1948. 424.8 B3925
- 12428 DEMIANOWICZ, A., and WAWRYN, T. The influence of infection with Nosema (described by Zander) on the productive efficiency and on the vigorousness of bee families in 1946-1947. (In Polish.) Med. Wet. 4: 538-541. Sept. 1948. 41.8 M463
- 12429 DEWEERDT, E. Large cells. (In Flemish.) Cult. en Handel 14: 586-588. Sept. 1948. 80 C892
- Combs.
- 12430 DIEMER, G. Does nosema start with the brood? South. Beekeeper 2(10): 4-5. Oct. 1948. Ent. Sub-Br. Libr.
- 12431 EDWARDS, E. E. Appliances for feeding bees. Welsh Bee J. 3: 86-90. Aug. 1948. 424.8 W462
- 12432 EDWARDS, E. E. Appliances for subduing and handling bees. Welsh Bee J. 3: 103-105. Sept. 1948. 424.8 W462
- 12433 EDWARDS, S. W. Honey house and bee box. Gleanings Bee Cult. 76: 737-739. Dec. 1948. 424.8 G47
- 12434 FARMIOLE, C. Two problems. Bee Craft 30: 77-78. Sept. 1948. 424.8 B3925
- Queen kills drone. Methyl salicylate in nectar.
- 12435 FEES, H. Obstblüte in Unterfranken. Imkerfreund 3: 52-53. July 1948. 424.8 Im43
- Bees as pollinators.
- 12436 FÉRIER, R. Désertion des abeilles. Belg. Apic. 12: 191-192. Oct. 1948. 424.8 B41
- 12437 FLEISCH, H. Cire de récupération. Apiculteur 92: 224-225. Sept. 1948. 424.8 Ap3
- 12438 FLÜCKIGER, G. Internationale bekämpfung von bienenseuchen. Wiener Tierärztl. Monatsschr. 34: 587-594. Oct. 1947. 41 T345
- Includes a report by O. Morgenthaler: Die bekämpfung der milbenkrankheit der bienen, p. 589-594.
- Also in Tierärztl. Umschau 2: 239-243. Oct. 1947. 41.8 T445
- 12439 FREZAL, P., and GRIESSINGER, C. L'apiculture algérienne et les moyens envisagés pour son amélioration. Rev. Franc. d'Apic. 1948: 685-687. Oct. 1948. 424.8 R329
- 12440 GARY, N. D., NELSON, G. I., and MUNRO, J. A. Serological evidence of resistance of larvae and workers [of Apis mellifera] to Bacillus larvae. J. Econ. Ent. 41: 661-663. Aug. 1948. 421 J822
- 12441 GEIGER, J. E. Brandon experimental projects. West. Canada Beekeeper 11(11): 9-10. Nov. 1948. 424.8 W525
- 12442 GEINITZ, B. Sorgen der bienenzucht. Landpost 4(14): 4-6. July 25, 1948. 18 L2329
- Germany.
- 12443 GOODACRE, W. A. Paralysis in bees. Agr. Gaz. N. S. Wales 59: 432-434. Aug. 1948. 23 N472
- 12444 GRAHAM, J. Thefts in the industry—causes and prevention. Australasian Beekeeper 50: 46-47. Aug. 15, 1948. 424.8 Au72



- 12445 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. The importance of bees in orchards. Gt. Brit. Min. Agr. and Fisheries. Adv. Leaflet 328, 3 p. July 1948. 10 G79LA
- 12446 GUILHON, M. Un insecticide inoffensif pour les abeilles. Rev. Franç. d'Apic. 1948: 658-659. Aug./Sept. 1948. 424.8 R329  
Thiodiphenylamine (= Phenothiazine).
- 12447 HACCOUR, P. L'apiculture, annexe du jardin familial. Soc. d'Hort. et d'Acclim. du Maroc. B. 33: 97-99. Third Quart. 1948. 87 So1
- 12448 HAMMAR, C. American foulbrood and sulfa treatment. (In Swedish.) Bitidningen 47: 255-256. Aug. 1948. 424.8 B54
- 12449 HAMMAR, C. From the history of Swedish apiculture and beekeepers organization. (In Swedish.) Bitidningen 47: 277-281, 305-309. Sept.-Oct. 1948. 424.8 B54
- 12450 HARRISON, G. L. Be careful with the bees—bees are important in alfalfa seed production. Utah Farmer 68(8): 3, 10. Nov. 25, 1948. 6 D45  
As pollinators.
- 12451 HAYDAK, M. H. Notes on biology of cyclopic bees. J. Econ. Ent. 41: 663-664. Aug. 1948. 421 J822
- 12452 HEATON, D. Humidity in the hive. Good Bee-Keeping 3: 136-137. Oct. 1948. Ent. Sub-Br. Libr.
- 12453 HEROLD, E. Bienen und kein honig? Noch bleibt eine hoffnung! Wandere in die heide! Imkerfreund 3: 59. Aug. 1948. 424.8 Im43
- 12454 HITCHIN, H. E. Bee breeding in Britain. Good Bee-Keeping 3: 118-119, 140-142. Sept.-Oct. 1948. Ent. Sub-Br. Libr.
- 12455 HOWES, H. Bee-keeping is a useful sideline for poultrymen. Mod. Poultry Keeping 59: 420-421. Oct. 27, 1948. 47.8 Eg3
- 12456 HURPIN, J. Les abeilles méchantes. Rustica 20: 41. Jan. 19, 1947. 14 R92
- 12457 HURPIN, J. A propos de la peinture des ruches. Apiculteur 92: 134-135. June 1948. 424.8 Ap3
- 12458 HURPIN, J. Protection des rayons des hausses contre la fausse-teigne [Galleria mellonella]. Apiculteur 92: 138-139. June 1948. 424.8 Ap3
- 12459 HURPIN, J. Au rucher: la loque et les sulfamides. Rustica 21: 137. Mar. 14, 1948. 14 R92
- 12460 IOWA. STATE APIARIST. Report for the year ending December 31, 1947. Des Moines, 1948. 125 p. 424.9 Io9  
Includes: Manuel for beginners, p. 21-125.
- 12461 JONES, G. O. The program and purposes of the National Federation [of Beekeepers' Associations]. Amer. Bee J. 88: 496, 505, 543. (To be cont.) Oct., Nov. 1948. 424.8 Am3
- 12462 JOSHI, R. D. How I was made a real bee-keeper. Indian Bee J. 10: 53-54. July/Aug. 1948. 424.8 In2
- 12463 KELTY, R. H. Michigan experiment points to pitfalls in sulfa feeding. South. Beekeeper 2(9): 4-5, 14. Sept. 1948. 424.8 So83
- 12464 KEMÉNY, A. Apiculture in Hungary. (In Swedish.) Bitidningen 47: 309-311. Oct. 1948. 424.8 B54
- 12465 KENWARD, F. Feeding methyl salicylate to bees. Bee Craft 30: 87. Oct. 1948. 424.8 B3925  
Treatment for acarine disease.
- 12466 KJELLANDER, E. Care needed in insect control. (In Swedish.) Jordbrukarnas Föreningsblad, Uppl. A: Östra Mellansverige och Gästrikland 18(48): 1, 3. Nov. 27, 1948. 11 J762  
Poisoning of honeybees.
- 12467 LATHAM, A. Using the percentage-of-infection test in treating foulbrood. South. Beekeeper 2(10): 6-7. Oct. 1948. Ent. Sub-Br. Libr.
- 12468 LAULAN, R. Une révolution dans les moeurs des abeilles. Nature [Paris] 3162: 314. Oct. 1948. 472 N21
- 12469 LE MAISTRE, W. G. Beekeeping for beginners in Alberta. Alberta. Dept. Agr. Ext. Serv. B. 35, 40 p. Jan. 1948. 275.29 AL122
- 12470 LOUVEAUX, J. Les répulsifs pour la protection des abeilles contre les traitements phytosanitaires. Rev. Franç. d'Apic. 1948: 661-663. Aug./Sept. 1948. 424.8 R329
- 12471 MALIK, H. S. Draw-backs of bee-keeping in Northern India. Indian Bee J. 10: 55-56. July/Aug. 1948. 424.8 In2
- 12472 MANLEY, R. O. B. American and English beekeeping conditions. It isn't a very easy job in England, this honey production. Gleanings Bee Cult. 76: 750-751. Dec. 1948. 424.8 G47
- 12473 MANLEY, R. O. B. When doctors differ. Bee Craft 30: 85-86. Oct. 1948. 424.8 B3925  
Treatment for acarine disease.
- 12474 MEAD, R. M. One kind of commercial bee-keeping. Amer. Bee J. 88: 538-539. Nov. 1948. 424.8 Am3
- 12475 MENGES, G. Schädlingbekämpfung und bienenzucht. Imkerfreund 3: 60-61. Ref. Aug. 1948. 424.8 Im43
- 12476 MEYER, E. DE. Faut-il s'alarmer? Belg. Apic. 12: 189-191. Oct. 1948. 424.8 B41  
Prevention of bee diseases.
- 12477 MITCHENER, A. V. Nectar and pollen producing plants in Manitoba. Sci. Agr. 28: 475-480. Oct. 1948. 7 Sci2
- 12478 MOMMERS, J. Observations on confined visiting habits of honey-bees. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 529-539. Aug. 1948. Ref. 86 N384  
English summary.  
In relation to pollination.
- 12479 MOREAUX, R. Résultats d'essais d'insémination chez l'abeille. Belg. Apic. 12: 179-181. Oct. 1948. 424.8 B41
- 12480 MOREAUX, R. Le rôle des abeilles dans la fécondation des fleurs des arbres fruitiers. Apiculteur 92: 129-134. June 1948. 424.8 Ap3
- 12481 MUNIZ, M. El acto de entrega de los diplomas a los nuevos idoneos de apicultura. Uruguay. Min. de Ganad. y Agr. 232: 6. (Cont.) Aug. 19, 1948. 9.9 G15B
- 12482 NICAISE, A. La ruche horizontale à cadres bas. Apiculteur 92: 231. Sept. 1948. 424.8 Ap3
- 12483 OLSSON, K. Bees and plant pollination. (In Swedish.) Bitidningen 47: 311-312. Oct. 1948. 424.8 B54
- 12484 OLSSON, N. Experiments with artificial heating of beehives during spring. (In Swedish.) Bitidningen 47: 249-252. Aug. 1948. 424.8 B54
- 12485 PARADEAU, C. L'abeille tellienne. Rev. Franç. d'Apic. 1948: 654-656. Aug./Sept. 1948. 424.8 R329
- 12486 PARKER, R. W. Bees and flowers. Welsh Bee J. 3: 93-95. Aug. 1948. 424.8 W462
- 12487 PHILLIPS, E. F. Bees in the eighteenth century. Gleanings Bee Cult. 76: 744-745. Dec. 1948. 424.8 G47
- 12488 PHILLIPS, E. F. Nosema, ventilation and logic. South. Beekeeper 2(9): 6-7. Sept. 1948. 424.8 So83  
Discussion, p. 7-8, 14, by G. Diemer and M. I. Taylor.
- 12489 PICKETT, J. Swiping the bee's pollen. Calif. Farmer, North. Ed. 189: 394-395. Nov. 6, 1948. 6 C126  
Pollen trap.
- 12490 RAYNAUD, P. Sélection en apiculture. Rev. Franc. d'Apic. 1948: 683-684. Oct. 1948. 424.8 R329
- 12491 ROBERTS, M. A home-made rapid feeder. Welsh Bee J. 3: 105-106. Sept. 1948. 424.8 W462
- 12492 RODRIGUEZ CASALS, C. Si hablaran las abejas. Agr. Costarricense 6: 178-181. July/Aug. 1948. 8 Ag895
- 12493 ROUSSEAU, M. La sélection. Rev. Franc. d'Apic. 1948: 690. Oct. 1948. 424.8 R329
- 12494 SIMENTZIS, M. Prophylaxie de l'acariose. Rev. Franc. d'Apic. 1948: 691-692. Oct. 1948. 424.8 R329
- 12495 SMITH, B. R. Top ventilation and nosema. South. Beekeeper 2(10): 5. Oct. 1948. Ent. Sub-Br. Libr.
- 12496 SROKA, K. H. Biene und honig im spiegel der kulturgeschichte. Imkerfreund 3: 65-66. Aug. 1948. 424.8 Im43
- 12497 TALWAR, R. C. Future of bee-keeping in India. Indian Bee J. 10: 50-51, 56. July/Aug. 1948. 424.8 In2
- 12498 TÄNNLER, H. Bienenzucht im Berner oberland. Schweiz. Bienen-Ztg. 71: 420-424. Oct. 1948. 424.8 Sch9
- 12499 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Information about bee culture. U. S. Bur. Ent. and Plant Quar. E-276, rev., 10 p. Sept. 1948. 1.9 En83  
List of publications.



12500 VENTURELLI, R. A. Dualism in apiculture. (In Italian.) *Risveglio Agr.* 7: 279-280. Aug. 15/31, 1948. 16 R49

Italian apiculture industry.

12501 WALLIS, E. The handling of vicious stocks; trials with dimethyl phthalate. *Good Bee-Keeping* 3: 124. Sept. 1948. Ent. Sub-Br. Libr.

12502 WASSERTHAL, E. Vom stamm K-Peschetz. *Imkerfreund* 3: 27-28. Apr. 1948. 424.8 Im43

12503 WHIFFEN, H. J. Bees in the orchard: facts and figures after using hives for the first time. *Fruit-Grower* 106: 573-575. Nov. 4, 1948. 80 F941

12504 WHITEOAK, J. S. Queen mating flight. *Bee Craft* 30: 70. Aug. 1948. 424.8 B3925

12505 WILLIAMS, C. Virgin killing a drone. *Bee Craft* 30: 86. Oct. 1948. 424.8 B3925

12506 WORTH, A. An instance of sagacity in bees. *West. Canada Beekeeper* 11(10): 14-15. Oct. 1948. 424.8 W525

12507 WORTH, A. Travel comfort for bees. *Good Bee-Keeping* 3: 119-120. Sept. 1948. Ent. Sub-Br. Libr.

12508 ZIKOWSKY, F. Der Kampf mit dem wasser. *Osterr. Kleintierzüchter* 1948: 460-461. Oct. 1948. 49 Os7

In beehives.

12509 ZIKOWSKY, F. Die kleine breitwabe. *Osterr. Kleintierzüchter* 1948: 475-476. Nov. 1948. 49 Os7

#### Colony Management

12510 ANDERSON, E. J. Hive humidity and its effect upon wintering of bees. *J. Econ. Ent.* 41: 608-616. Aug. 1948. 421 J822

12511 BRAUN, E. Bees ready for wintering. *West. Canada Beekeeper* 11(11): 4. Nov. 1948. 424.8 W525

12512 BRAUN, E. The economics of honey production. *West. Canada Beekeeper* 11(11): 11-13. Nov. 1948. 424.8 W525

Colony management; costs and returns.

12513 BRAUN, E. Over-wintered colonies. *West. Canada Beekeeper* 11(11): 14-15. Nov. 1948. 424.8 W525

12514 BROEK, W. H. VAN DEN. How one gives a queen to a colony from "outside." *Bee World* 29: 82. Nov. 1948. 424.8 B399

12515 EVANS, G. 1946-47 winter losses of bees in Wales. *Welsh Bee J.* 3: 90-93. Aug. 1948. 424.8 W462

12516 GOODERHAM, C. B. L'hivernage en cave. *Abeille et l'Érable* 17: 88-89. (Concl.) Aug./Sept. 1948. 424.8 Ab32

12517 GUBIN, A. F. Methods of obtaining substantial yields of honey in the central area of U. S. S. R. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok.* 7: 174-178. 1948. 20 M857

Chiefly on management of honeybees.

12518 HASTINGS, E. Beekeeping observations. *West. Canada Beekeeper* 11(10): 10-13. Oct. 1948. 424.8 W525

Seasonal care, etc.

12519 HEBDEN, A. Out-apiary management. *Good Bee-Keeping* 3: 126-128, 138-140. Sept.-Oct. 1948. Ent. Sub-Br. Libr.

12520 HEROLD, E. Die künstliche besamung der königin. *Imkerfreund* 3: 49-50. July 1948. 424.8 Im43

12521 HEROLD, E. Sorgenvolles zusetzen. *Imkerfreund* 2: 19-22. (Concl.) Feb./Mar. 1947. 424.8 Im43

12522 HOOPER, M. M. A challenge to thoughtful beekeepers. *Beekeeping* 14: 191, 194. (Cont.) Sept. 1948. 424.8 B3991

Supersedure.

12523 JONES, R. E. The Connecticut 12 x 12 colony brooder house. *Conn. Agr. Col. Ext. B.* 344, rev., 12 p. Sept. 1947. 275.29 C76B

12524 LANGLEY, C. G. Winter care of bees. *Farmer [St. Paul]*, Gen. Ed. 66(23): 9, 32. 6 F2211

12525 LE MAISTRE, W. G. Wintering bees in Alberta. *Alberta. Dept. Agr. Ext. Serv. B.* 58, rev., 18 p. Aug. 1947. 275.29 AL122

12526 MARZORATI, O. Algunas nociones sobre enjambrazon artificial. *Pampa Argentina* 22(254): 18-19. Oct. 1948. 9 P19

12527 MEDICI, M. Que es una colonia de abejas? *Agrario* 13(401): 7. Sept. 1948. 9.3 Ag85

12528 MEHTA, V. K. My further experiments on decoy hives. *Indian Bee J.* 10: 52, 54. July/Aug. 1948. 424.8 In2

12529 MERRITT, B., and HOGARTH, E. A. Preparing bees for winter. *Canad. Bee J.* 56(11): 8, 10-11. Nov. 1948. 424.8 C16

12530 MITCHENER, A. V. The swarming season for honey bees in Manitoba. *J. Econ. Ent.* 41: 646. Aug. 1948. 421 J822

12531 NILSSON, J. Swarming instincts in honeybees. (In Swedish.) *Bitidningen* 47: 312-313. Oct. 1948. 424.8 B54

12532 PARADEAU, C. Technique simplifiée du remplacement des reines. *Rev. Franc. d'Apic.* 1948: 681-682. Oct. 1948. 424.8 R329

12533 PAVORD, A. V. Basic beekeeping. *Good Bee-Keeping* 3: 120-122, 134-135. Sept.-Oct. 1948. Ent. Sub-Br. Libr.

Essentials for safe wintering. Care of equipment.

12534 PAYNTER, G. W. How to pack for winter; practical instruction from an old-time beekeeper. *Canad. Bee J.* 56(11): 18-19. Nov. 1948. 424.8 C16

12535 PEASE, C. H. Wintering. *Mod. Beekeeping* 32: 736-737, 739. Oct. 15, 1948. 424.8 B397

12536 POOS, J. Reines Carniolienne de souche H. Peschetz. *Rev. Franc. d'Apic.* 1948: 664. Aug./Sept. 1948. 424.8 R329

12537 PRATT, P. G. My method of swarm control. *Irish Beekeeper* 2: 190. Aug. 1948. 424.8 Ir42

12538 RAHMLOW, H. J. The subject of wintering bees. Have we been following the wrong path? *Amer. Bee J.* 88: 540. Nov. 1948. 424.8 Am3

12539 RICHARDSON, R. Brood rearing and pollen stores. *Bee Craft* 30: 90. Oct. 1948. 424.8 B3925

12540 SCHMIDT, F. A. Ordnung in der bienenzucht durch bienenzuchtordnung. *Imkerfreund* 2: 23. Feb./Mar. 1947. 424.8 Im43

12541 SCHNEIDER, H. Hätten wir die tracht besser ausnützen können? *Schweiz. Bienen-Ztg.* 71: 376-379. Sept. 1948. 424.8 Sch9

12542 VOMSATTEL, M. Eigentumsrecht an schwärmen. *Schweiz. Bienen-Ztg.* 71: 379-300. Sept. 1948. 424.8 Sch9

12543 WALSH, R. S. Two-queen colonies can increase honey production. *New Zeal. J. Agr.* 77: 189, 191. Aug. 1948. 23 N48J

12544 WEBB, MRS. E. R. Taking bees out of a chimney. *Mod. Beekeeping* 32: 733-734, 739. Oct. 15, 1948. 424.8 B397

12545 ZAPPI-RECORDATI, A. Winter feeding of bees. (In Italian.) *Glor. di Agr.* 57: 16. Jan. 19, 1947. 16 It1G

12546 ZÜRCHER, H. Das "kalte" fenster. *Schweiz. Bienen-Ztg.* 71: 373-376. Sept. 1948. 424.8 Sch9

Insulating the hive for winter protection.

#### ARACHNIDA, MYRIAPODA, ETC.

12547 ARCANGELI, A. The systematic position of the genus *Helleria* Ebn. (terrestrial isopod crustacean). (In Italian.) *Arch. Zool. Ital.* 31: 373-389. Ref. 1943/1946, pub. 1947. 410 Ar22

French and English summaries.

12548 BALTAZARD, M., MOFIDI, C., and BAHMANYAR, M. Essai de reclassement de certains spirochètes récurrents. *Soc. de Path. Exot. B.* 41: 399-405. 1948. 448.9 So13

*Ornithodoros erraticus* as a spirochete vector.

12549 BRYANT, E. B. Some spiders from Acapulco, Mexico. *Psyche* 55: 55-77. June 1948. 421 P95

Includes n. spp. in: *Theridion*, 2; *Aranea*; *Anyphaenella*; *Habronattus*; *Metaphidippus*, 2; *Tomis*.

12550 BÜCHERL, W. Comparative study of the Brazilian species of the genus *Pamphobeteus* Pocock, 1901 (Mygalomorphae). (In Portuguese.) *Butantan. Inst. Mem.* 20: 233-282. 1947. 448.9 B97

German summary.

12551 BÜCHERL, W. Two new species of the genus *Eupalaestrus* Pocock, 1901. (In Portuguese.) *Butantan. Inst. Mem.* 20: 297-314. 1947. 448.9 B97

English and German summaries.

12552 CAUWENBERGH, E. VAN. La lutte contre l'araignée rouge [*Paratetranychus pilosus* (?)], dans les serres à vignes et à pêchers, avec l'azobenzène. *Fruit Belge* 16: 113-116. Aug. 1948. 80 F9493

12553 COLAS-BELCOUR, J., and MILLOT, J. Contribution à l'étude des Ixodidés de Madagascar. Sur une variété nouvelle de *Haemaphysalis hoodi*. Parasitisme humain par un *Boophilus*. *Soc. de Path. Exot. B.* 41: 384-388. 1948. 448.9 So13



- 12554 CRANE, J. The jumpers of Rancho Grande. *Anim. Kingdom* 51: 148-151. Sept./Oct. 1948. 410.9 N483B
- Corythalia xanthopa* and other jumping spiders.
- 12555 FULLER, H. S. Some remarks on the Trombiculinae Ewing, 1929, in *Das Tierreich*, Trombiculidae, by Sig Thor and Willmann. A critical review. *Brooklyn Ent. Soc. B.* 43: 101-111. Oct. 1948. 420 B79
- 12556 GABLER, H. Erfolgreiche gesarolbestäubung gegen den schlehschneider (*Orgyia antiqua* L.) im Erzgebirge. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 54-55. Mar./Apr. 1948. 464.9 N11
- 12557 GAUNITZ, C. B. Hunting woodlice. (In Swedish.) *Trädgårdstidningen* 20(7/8): 11, 32-33. Apr. 1948. 80 T67
- Use of traps.
- 12558 GOURC, J., and FIASSON, J. Observations sur quelques stations à scorpions de la Côte Vermeille. *Soc. Linn. de Lyon. B. Mens.* 16: 208-209. Dec. 1947. 505 L992B
- 12559 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. The mites associated with stored food products, by A. M. Hughes. London, H. M. Stationery Off., 1948. 168 p. 434 G793
- Includes n. spp. in: *Acotyledon*; *Blomia*; *Cheyletus*; *Eugamasus*; *Hypoaspis*; *Neoseiulus*; *Rhizoglyphus*; *Trematoura*; *Tristomus*; *Zercoseius*.
- 12560 HATCH, M. H. The Chelifera and Isopoda of Washington and adjacent regions. *Wash. U. P. Biol.* 10: 157-274. Ref. Dec. 1947. 442.9 W27
- Includes *Oniscoidea* (terrestrial Isopoda) with n. spp. and forms in *Trichoniscus* and *Porcellio*; also *Oregoniscus* n. g.
- 12561 HOFF, C. C. *Hesperochernes thomomysi*, a new species of chernetid pseudoscorpion from California. *Wash. Acad. Sci. J.* 38: 340-345. Oct. 15, 1948. 500 W276J
- 12562 HOFFMAN, R. L. Three new eastern millipeds of the family Xystodesmidae. *Wash. Acad. Sci. J.* 38: 346-350. Oct. 15, 1948. 500 W276J
- In *Apheloria*, *Nannaria*, and *Tucoria*.
- 12563 HOMANN, H. Beiträge zur physiologie der spinnenaugen. V. Der lichtsinn von *Aranea sexpunctata* (Argiopidae). *Biol. Zentbl.* 66: 251-261. Ref. 1947. 442.8 B523
- 12564 JASKOWSKI, L. Experiments in the therapy of mange on sheep by applying sulphur dioxide. (In Polish.) *Med. Wet.* 4: 480-483. Ref. Aug. 1948. 41.8 M463
- English summary.
- 12565 JEPPSON, L. R., and LANDON, W. E. Importance and control of citrus red mites [*Paratetranychus citri*]. *Exch. Pest Control C.* 165: 644-645. Sept. 1948. 423.9 C12E
- 12566 LAURO, G. DI Various cures for follicular mange of dogs. (In Italian.) *Risveglio Agr.* 7: 242-244. July 15/31, 1948. 16 R49
- Caused by *Demodex folliculorum*.
- 12567 LEES, A. D., and BEAMENT, J. W. L. An egg-waxing organ in ticks. *Quart. J. Micros. Sci.* 89: 291-332. Ref. Sept. 1948. 440.8 Q2
- Observations on *Ornithodoros moubata* and *Ixodes ricinus*.
- 12568 LINDEN, L. VAN DER. Tetranychidae control. (In Flemish.) *Tuinbouwberichten* 12: 62-63. Apr. 15, 1948. 80 T817
- 12569 MACHADO, O. *Latrodectus mactans*, its occurrence in Brazil. (In Portuguese.) *Inst. Vital Brazil. B.* 5: 153-160. Apr. 1948. 448.9 In75B
- French summary.
- 12570 MCQUEEN, D. Control of red mite on poultry [*Dermanyssus gallinae*]; trial with D.D.T. *Poultry Farmer* [Sydney] 16(8): 12-15. Aug. 21, 1948. 280.28 Or32
- 12571 MARCUS, H. Los espiráculos en Arachnida. *Folia Univ.* 1(1): 79-82. Dec. 1947. 516 F71
- German summary.
- 12572 MORGENTHAU, O. Notizen aus der bienenabteilung Liebfeld. 6. Die "rote herbstmilbe" (Fam. Trombiculidae) ein bienenschädling? *Schweiz. Bienen-Ztg.* 71: 381. Sept. 1948. 424.8 Sch9
- Atomus parasiticus*.
- 12573 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Grass itch mites (*Acomatacarus australiensis*). N. S. Wales. Dept. Agr. Insect Pest Leaflet 85, 2 p. Sydney, 1947. 423.92 N47
- 12574 ORTIZ MARIOTTE, C., and CALDERON, C. Hexaclorocicloexano, su efecto en la garrapata común del perro [*Rhipicephalus sanguineus*] en México; prueba de laboratorio—informe preliminar. *Ofic. Sanit. Pan-amer. B.* 27: 719-723. Aug. 1948. 449.9 P192B
- English summary.
- 12575 PAVAN, M. A look at scorpions. (In Italian.) *Sci. e Lav.* 3: 176-177. Sept. 1948. 475 Sci27
- 12576 PIZA JUNIOR, S. DE T. Chromosome variations in *Tityus bahiensis* from São Joaquim. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 187-194. May/June 1948. 9.2 R324
- English summary.
- 12577 PIZA JUNIOR, S. DE T. A new natural chromosomal race of *Tityus bahiensis* (Scorpiones-Buthidae). (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 181-186. May/June 1948. 9.2 R324
- English summary.
- 12578 PIZA JUNIOR, S. DE T. Preliminary observations on the chromosomes of *Tityus trivittatus* Krpln (Scorpiones-Buthidae). (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 177-180. May/June 1948. 9.2 R324
- English summary.
- 12579 SIMONPIETRI, R. H. Sarna de los perros y gatos. *Chacra* 19(217): 96-97, 102. Nov. 1948. 9 C34
- 12580 TURK, F. A. On recent additions to the collection of Solifuga belonging to the Hebrew University of Palestine. *Ann. & Mag. Nat. Hist.* (ser. 12) 1: 263-273. Apr. 1948. 410 An77
- Includes n. spp. in: *Rhagadorimus* n. g.; *Gylippus*; *Oparbica*; *Galeodes*.
- 12581 TURK, F. A. Records and descriptions of new and little-known Opiliones, mostly cavernicolous. *Ann. & Mag. Nat. Hist.* (ser. 12) 1: 254-262. Apr. 1948. 410 An77
- Includes *Euscelera indica* n. sp.
- 12582 VALLEJO-FREIRE, A. Virus transmission of Mexican spotted fever by *Amblyomma striatum* Koch, 1844. (In Portuguese.) *Butantan. Inst. Mem.* 20: 107-112. 1947. 448.9 B97
- English summary.
- 12583 VANDEL, A. La période xéothermique post-glaciaire et la repartition des isopodes terrestres. *Soc. Linn. de Lyon. B. Mens.* 16: 21-25. Ref. Feb. 1947. 505 L992B
- 12584 WHARTON, G. W. The distribution of pest chiggers [*Eutrombicula alfreddugesi* (?)] near Duke University. (Abs.) *J. Parasitol.* 34(6, sup.): 17. Dec. 1948. 448.8 J824
- 12585 WHARTON, G. W. Four new Peruvian chiggers (Acarina-Trombiculidae). *Psyche* 55: 87-100. June 1948. 421 P95
- New spp. in *Euschöngastia*; *Trombicula*.
- 12586 WHARTON, G. W. The generic name *Trombiculoides* Jacot, 1938. *Psyche* 55: 139-140. Sept. 1948. 421 P95
- 12587 WHITEHEAD, S. B. Red spider [*Tetranychus telarius*] in the greenhouse can be controlled. *Pop. Gard.* 50: 280, 282. Sept. 25, 1948. 80 G1622
- 12588 WILLCOX, P. H. A. Mite typhus fever in Assam and Burma, 1944-1946. *Roy. Soc. Trop. Med. & Hyg. Trans.* 42: 171-189. Ref. Sept. 1948. 448.9 R813
- 12589 ZAMMAT, M. Tick fever [in sheep]. (In Arabic.) *Syria. Ext. Serv. C.* 24, 8 p. Apr. 1948. 22.5 Sy8
- English summary.

## COLEOPTERA

- 12590 AGUILAR, J. D', and QUEMERE, F. Un aspect de la lutte contre les taupins: l'arrachage précoce. *Pomme de Terre Franç.* 11(105): 22-23. May 1948. 75.8 P77
- 12591 ANDERSON, R. F. Host selection by the pine engraver [*Ips pini*]. *J. Econ. Ent.* 41: 596-602. Ref. Aug. 1948. 421 J822
- 12592 BARR, W. F. Two new species of Cymatodera from the southwestern United States and Mexico (Coleoptera: Cleridae). *Wasmann Collect.* 7: 111-114. Aug. 1948. 442.8 W28
- 12593 BECHYNE, J. Deuxième note sur les Eumolpides malgaches (Col. Phytophaga). *Soc. Linn. de Lyon. B. Mens.* 16: 206-208. Dec. 1947. 505 L992B
- Includes *Lebisiella* n. g. with 5 new species.
- 12594 BECHYNE, J. Diagnoses de deux espèces nouvelles du genre *Rhembastus* de Madagascar. *Soc. Linn. de Lyon. B. Mens.* 16: 30-31. Feb. 1947. 505 L992B



- 12595 BECHYNÉ, J. Notes sur le genre *Neodera* Duviv. (Col. Phytophaga, Alticidae). Soc. Linn. de Lyon. B. Mens. 16: 139-140. Sept. 1947. 505 L992B
- 12596 BECKLEY, V. A. The protection of grain against weevils. *Pyrethrum* Post 1: 8-10. July 1948. 421 P99
- Also in *Nature* [London] 162: 737-738. Nov. 6, 1948. 472 N21
- 12597 BINAGHI, G. A new grub introduced from Brazil. (In Italian.) *Gior. di Agr.* 57: 10. Jan. 12, 1947. 16 It1G
- Pseudopachymerus quadrimaculatus*, pest of chickpeas.
- 12598 BISSELL, T. L., and CHILSON, L. Plum curculio [*Conotrachelus nenuphar*] activity on the Eastern Shore of Maryland in 1947. *Peninsula Hort. Soc. Trans.* 61: 61-64. 1947. 81 P37
- 12599 BLAKE, D. H. Seven new flea beetles from the West Indies (Coleoptera—Chrysomelidae). *Psyche* 55: 141-149. Sept. 1948. 421 P95
- In *Lactica*, *Pseudoepitrix*, and *Aphthona*.
- 12600 BOGDANOV-KAT'KOV, N. N. Koloradskii kartofel'nyi zhuk *Leptinotarsa decemlineata* Say i ego karantinnoe znachenie [Colorado potato beetle, *Leptinotarsa decemlineata* Say and its quarantine importance]. Moskva, Sel'khozgiz, 1947. 198 p. 427 B633K
- 12601 BOHM, H. Die borkenkäfer. Bundesanst. f. Pflanzenschutz. Flugbl. 45, 2 p. 1948. 464.9 V672F
- 12602 BOSCH, J. M. Nueva combinacion para *Leptidea brevipennis* Muls. (Col. Cerambycidae). *Agr. Téc.* 8: 69-71. Ref. June 1948. 464.9 C432B
- Nathrius brevipennis*.
- 12603 BOTTAZZI, A. Disinfestation of granaries. (In Italian.) *Avvenire Agr.* 56: 155-156. July 1948. 16 Av9
- Control of *Sitophilus granarius*, *Nemapogon granella*, and *Tenebroides mauritanicus*.
- 12604 BRANDT, H. Borkenkäfer. *Kosmos* 44: 9-12. Jan./Feb. 1948. 474 K842
- 12605 BREUNING, S. Entomological results from the Swedish Expedition 1934 to Burma and British India. Coleoptera: Carabidae (Suppl. I.). Collected by René Malaise. *Arkiv f. Zool.* 40B(2), 3 p. Dec. 1947. 410.9 Sv22
- Carabus malaisei* n. sp.
- 12606 BRUHN, A. F. The external male genitalia of some Rhynchophora. *Great Basin Nat.* 3(1/4): 1-35. Ref. Dec. 30, 1947. 410 G79
- 12607 BRYANT, G. E. New species of Clytrinae (Col. Chrysomelidae) from Africa. *Ann. & Mag. Nat. Hist.* (ser. 12) 1: 225-241. Apr. 1948. 410 An77
- New spp. in *Peploptera*; *Aspidolopha*; *Gynandrophthalma*; *Miopristis*; *Atelechira*.
- 12608 CARNE, P. B. Persistence of D. D. T. in the soil. *Nature* [London] 162: 743. Nov. 6, 1948. 472 N21
- Control of *Aphodius howitti*.
- 12609 CHAPIN, E. A. Notes on the genus *Palorus* (Tenebrionidae). *Coleopterists' B.* 2: 52. June 1948. 421 C674
- 12610 COCKERHAM, K. L., and DEEN, O. T. Insecticide tests in field plots for control of the sweetpotato weevil [*Cylas formicarius elegantulus*]. *J. Econ. Ent.* 41: 563-565. Aug. 1948. 421 J822
- 12611 DAVIAULT, L. Le scieur longicorne noir [*Monochamus scutellatus*]. *Forêt Québécoise* 13: 592-596. Oct. 1948. 99.8 F79
- 12612 DELMAS, and COUTIN, R. Action toxicologique de divers insecticides sur les adultes du capnode. *Acad. d'Agr. de France. Compt. Rend.* 34: 781-782. June 30/July 7, 1948. 14 P215Bc
- 12613 DIXON, W. B. The tobacco [cigarette] beetle [*Lasioderma serricorne*] and its control. *Farmer* [Kingston] 52: 93-94. Apr./June 1948. 8 J 223
- 12614 EDWARDS, W. H. Th yam weevil [*Palaeopus dioscorae*] and its control. *Farmer* [Kingston] 52: 91. Apr./June 1948. 8 J223
- 12615 EICHLER, W., and MÜLLER, W. Der schierlingsrüssler (*Lixus iridis*) als schädling des liebstockels (*Levisticum officinale*). *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 46-48. Ref. Mar./Apr. 1948. 464.9 N11
- 12616 EWING, K. P., and PARENIA, C. R. Control of boll weevil [*Anthonomus grandis*] and cotton aphid [*Aphis gossypii*] with dusts containing chlorinated camphene, benzene hexachloride or other new insecticides. *J. Econ. Ent.* 41: 558-563. Aug. 1948. 421 J822
- 12617 FAVARD, P. Dégâts anormaux d'un charançon [Apion pisi] de la luzerne. *Prog. Agr. et Vitic.* 1948: 203-208. Oct. 17/24, 1948. 14 P94
- 12618 FENDER, K. The cavicolis-corneus group of *Podabrus* (Coleoptera: Cantharidae). *Pan-Pacific Ent.* 24: 131-140. July 1948. 421 P193
- Includes 5 n. spp. and forms.
- 12619 FENDER, K. M. Some new or little known Cantharidae (Coleoptera). *Wasmann Collect.* 7: 117-122. Aug. 1948. 442.8 W28
- Includes n. spp. in *Podabrus*; *Silis*; *Ichthyurus*.
- 12620 FORMIGONI, The doryphore [*Leptinotarsa decemlineata*] attacks even the tubers of potatoes. (In Italian.) *Campagna* 47: 207. Aug. 15/Sept. 1, 1948. 16 C152
- 12621 FURLONG, J. R. Trials to determine the value of certain new insecticides as preventives against hide beetle [*Dermestes maculatus*]. *Gt. Brit. Imp. Inst.* B. 45: 325-335. Oct./Dec. 1947. 26 G79
- Tests on DDT, benzene hexachloride, and sodium fluosilicate.
- 12622 GALOUX, A. Les bostryches dans les pessières de l'Est. *Soc. Cent. Forest. de Belg.* B. 55: 293-298. Aug. 1948. 99.9 B83
- Chiefly *Pityogenes chalcographus* and *Ips typographus*.
- 12623 GALOUX, A. Études statistiques sur une pullulation de *Pityogenes chalcographus* Linné. (Coleoptera Ipidae). À la suite des dégâts de neige dans les pessières des Sudètes. *Parasitica* 4: 43-72. Ref. 1948. 464.8 P21
- French and German summaries.
- 12624 GETTE, P. Notes sur les carabiques capturés au bord du Rhone à Lyon. *Soc. Linn. de Lyon. B. Mens.* 16: 8-12. Jan. 1947. 505 L992B
- 12625 GODAN, D. Bericht über die im winter 1947/48 durchgeführten untersuchungen von raps- und rübenproben auf befall mit rapserdfloh (*Psylliodes chrysocephala* L.) larven. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 38-39. Mar./Apr. 1948. 464.9 N11
- 12626 GRAY, H. E. The biology of flour beetles. Northwest. Miller, Milling Prod. Sect. 236(11): 3a, 14a-18a. Dec. 14, 1948. 298.8 N81
- Tribolium* spp., chiefly.
- 12627 GRISON, P. La ponte du doryphore [*Leptinotarsa decemlineata*]. *Parasitica* 4: 73-84. Ref. 1948. 464.8 P21
- 12628 GROS, L. P. Les oiseaux destructeurs de Capnode. *Réveil Agr.* 57: 325. Nov. 1, 1948. 14 R322
- 12629 HÄRLE, A. Ist der rapsglanzkäfer (Meligethes aeneus Fabr.) nur ein schädling? *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 40-42. Ref. Mar./Apr. 1948. 464.9 N11
- 12630 HASE, A. Über das auftreten und die bekämpfung des rüben-derbrüsslers *Bothynoderes* (Cleonus) punctiventris im jahre 1948 sowie über einige andere schädliche rüssler des rübenbaues. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 33-36. Ref. Mar./Apr. 1948. 464.9 N11
- 12631 HATCH, M. H. Carabidae from the Olympic Mountains. *Coleopterists' B.* 2: 51. June 1948. 421 C674
- 12632 HEY, Über das auftreten eines "unbekannten Grünlandschädling" in Thüringen. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 55. Mar./Apr. 1948. 464.9 N11
- Apparently *Phyllopertha horticola*.
- 12633 HICKS, S. D. *Brachyrhinus raucus* (Fab.), an European weevil new to North America. *Canad. Ent.* 79: 171. Sept./Oct. 1947. 421 C16
- 12634 HOFFMANN, A. Un curculionide nouveau [*Lixus remaudierei*] nuisible aux oeillets cultives. *Rev. de Path. Vég. et d'Ent. Agr. de France* 27: 102-109. Apr. 1948. 464.9 S01
- 12635 KELLY, G. W. It can happen here. *Green Thumb* 5(9): 14-15. Sept. 1948. 80 G82
- Damage to Engelmann spruce by *Dendroctonus*.
- 12636 KHAN, A. H. Insect borers of newly felled timber and their control. *Indian Forest B. New Ser.*, Ent. 136, 8 p. 1947. 99.9 In22B
- Various beetles.
- 12637 KLAPWIJK, J. G. The strawberry blossom weevil [*Anthonomus rubi* Hbst.]. (In Dutch.) *Groenten en Fruit* 3: 534. Apr. 1, 1948. 80 G89



- 12638 KOTTE, W. Das schadbild des mohnkapsel-rüsslers *Ceutorhynchus macula alba* Hrbst. Z. f. Pflanzenkrank. 55: 81-85. Ref. Mar./Apr. 1948. 464.8 Z3
- 12639 KREBS, E. Die wiederaufforstung der borken-käferflächen in Süddeutschland. Schweiz. Z. f. Forstw. 99: 543-546. Sept./Oct. 1948. 99.8 J82
- Ips typographus*.
- 12640 LAGARRIGUE, J. Un rassemblement de coccinelles [*Coccinella septempunctata*]. Entomologiste 4: 108-109. Mar./Apr. 1948. 421 En814
- 12641 LAGAUE, H. Étude sur le grand bupreste des arbres fruitiers (*Capnodis tenebrionis*). Cong. Pomol. de France. Sess. 78: 123-144. 1947. 93.09 C7643
- Discussion, p. 145.
- 12642 LODEN, H. D., and LUND, H. O. Experiments with chlorinated camphene and parathion against the cotton boll weevil [*Anthonomus grandis*] and cotton aphid [*Aphis gossypii*]. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 86-87. 1948. 4 C82
- 12643 LOUREIRO, J. T. J. Next São Paulo coffee crop reduced by broca [*Stephanoderes hampei*] and unfavorable weather. Tea & Coffee Trade J. 95(6): 24, 26. Dec. 1948. 68.8 T22
- 12644 MAAS, W. J. The pea leaf weevil [*Sitona lineata* L.]. (In Dutch.) Groenten en Fruit 3: 392. Jan. 29, 1948. 80 G89
- 12645 MCALPINE, J. F. The glow worm's [*Lampyris*] secret. O. A. C. Rev. 61(1): 19-21. Oct. 1948. 276.8 On8
- 12646 MALENOTTI, E. Successful control of *Opatrum sabulosum*. (In Italian.) Riv. Fitosanit. 2: 42. Aug. 1948. 464.8 R522
- 12647 MARTÍNEZ, A. Notas coleopterológicas. I. Soc. Cient. Argentina. An. 146: 41-51. Ref. 1948. 516 So1
- English summary.
- New spp. in *Glaphyrocathion* n. g.
- 12648 MAYNÉ, R., and BRENY, R. Rapport et considérations sur l'activité doryphorique [*Leptinotarsa decemlineata*] en 1947 et en Belgique. Parasitica 4: 85-97. Ref. 1948. 464.8 P21
- 12649 MEQUIGNON, A. Notes diverses sur des Coléoptères de France. Soc. Linn. de Lyon. B. Mens. 16: 6-7. Jan. 1947. 505 L992B
- Nanophyes.
- 12650 MUNRO, J. A., and POST, R. L. Parasites to aid in the control of the sweet clover weevil [*Sitona cylindricollis*]. Science 108: 609. Nov. 26, 1948. 470 Sci2
- 12651 NIELAND, L. T. Bothered with beetles? AT-FA Journal 11(2): 9-10. Nov. 1948. 309.8 Am3
- Bark beetles in standing timber.
- 12652 NUNBERG, M. New Mediterranean species of the genus *Phloeosinus* Chap. (In Polish.) Polskie Pismo Ent. 18(1): 14-23. 1939/1948. 421 P76
- English summary.
- 12653 ORSHOVEN, H. VAN. Le doryphore [*Leptinotarsa decemlineata*] en Belgique. Rev. de l'Agr. 1: 467-471. June 1948. 13 R322
- 12654 PARDO ALCAIDE, A. Notas de entomología ibérica. Una nueva y singular especie de *Attalus* Er. [A. escaleraei] de Cataluña (Col. Malach.). Eos 24: 25-28. Mar. 31, 1948. 421 Eo7
- 12655 PIERI, G. *Balaninus glandium* Marsh. (In Italian.) Riv. Fitosanit. 2: 5-6. Feb. 1948. 464.8 R522
- 12656 PILLERI, G. Morphologic and systematic study of the genus *Anisoplia* Serv. (Col. Scarabaeidae). (In Italian.) Eos 24: 57-72. Mar. 31, 1948. 421 Eo7
- 12657 PINTO SALVATIERRA, J. El escarabajo de la papa (*Leptinotarsa decemlineata*). Agr. Venezol. 13 (131): 45. July/Sept. 1948. 9.95 Ag8
- 12658 PORCELLINI, A. The doryphore [*Leptinotarsa decemlineata*] in our province. (In Italian.) Avvenire Agr. 56: 149-151. July 1948. 16 Av9
- 12659 REISINGER. Warum kartoffelkäfer-suchtage? Kärntner Bauer 98: 227. July 15, 1948. 19 K14
- Leptinotarsa decemlineata*.
- 12660 RICHARDS, O. W. The interaction of environmental and genetic factors in determining the weight of grain weevils, *Calandra granaria* [i. e. *Sitophilus granarius*] (L.) (Col., Curculionidae). London Zool. Soc. Proc. 118: 49-81. May 1948. 410.9 L84P
- 12661 RITCHER, P. O., and ARMSTRONG, W. D. Experience with curculio [*Conotrachelus nenuphar*] in Kentucky. Ind. Hort. Soc. Trans. (1947) 87: 16-21. 1948. 81 In2
- 12662 ROSELLA, E. Le *Capnodis tenebrionis* au Maroc: on l'accuse parfois à tort; on pourrait augmenter la résistance des arbres. Acad. d'Agr. de France. Compt. Rend. 34: 845-848. June 30/July 7, 1948. 14 P215Bc
- 12663 ROSILLO, M. A. Estudio preliminar a la bioecología del gusano minador del tallo [*Faustinus cubae*]. Argentina. Inst. de Sanid. Veg. [P.] Ser. A 4(43), 45 p. Ref. 1948. 464.9 Ar323
- 12664 ROSSEM, G. VAN. Damage to cabbage by weevils [*Ceutorhynchus rapae* and *C. quadridens*]. (In Dutch.) Tuinbouw 3: 66-68. Mar. 1948. 80 T815
- 12665 SAKIMURA, K. Residual toxicity of hexachlorocyclohexane incorporated in soil. J. Econ. Ent. 41: 665-666. Aug. 1948. 421 J822
- Control of *Anomala orientalis*.
- 12666 SCHAEFER, L. Captures de Coléoptères et observations diverses. Soc. Linn. de Lyon. B. Mens. 16: 26-29, 52-53. Feb.-Mar. 1947. 505 L992B
- 12667 SCHAEFER, L. Notes sur la systématique et la morphologie des larves de buprestides. Soc. Linn. de Lyon. B. Mens. 16: 140-143, 162-167. Sept.-Oct. 1947. 505 L992B
- 12668 SCHAEFER, L. Un nouveau *Phaenops* français (Col., Bupr.). Soc. Linn. de Lyon. B. Mens. 16: 192. Nov. 1947. 505 L992B
- 12669 SCHAEFER, L. *Phytoecia vulneris* Aur., Cérámbycide français méconnu. Soc. Linn. de Lyon. B. Mens. 16: 86-88. May 1947. 505 L992B
- 12670 SCHIMITSCHEK, E. Berücksichtigung des reifungsfrasses bei der bekämpfung des achtzähligen fichtenborkenkäfers (*Ips typographus* L.). Pflanzen-schutzberichte 2: 129-139. Sept. 1948. 464.9 P48
- 12671 SCHMID, V. Neues verfahren im kampf gegen den maikäfer [*Melolontha* sp.]. Schweiz. Z. f. Forstw. 99: 542-543. Sept./Oct. 1948. 99.8 J82
- 12672 SCHNEIDER-ORELLI, O., and KUHN, W. Weitere untersuchungen in schweizerischen borken-käferherden [*Ips* spp.]. Schweiz. Z. f. Forstw. 99: 510-542. Sept./Oct. 1948. 99.8 J82
- French summary.
- 12673 SCHØYEN, T. H. Drought and bark beetles [*Ips typographus*?]. (In Norwegian.) Tidsskr. for Skog-bruk. 55: 293-294. Oct./Nov. 1947. 99.8 T432
- Effect on spruce.
- 12674 SCHWARTZ, M. Kartoffelkäferresistenz. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 65-69. May/June 1948. 464.9 N11
- Varieties resistant to *Leptinotarsa decemlineata*.
- 12675 SCHWERDTFEGGER, F. Die ursachen von borkenkäfer-epidemien in fichtenwäldern. Z. f. Welt-forstw. 12: 57-61. Ref. Sept. 1948. 99.8 Z35
- English and French summaries.
- Ips typographus*, *I. amitinus* and *Pityogenes chalcographus*.
- 12676 SEIXAS, C. A. The practice of chemical control of the coffee berry borer (*Stephanoderes hampei*). (In Portuguese.) Biologico 14: 71-89. Apr. 1948. 442.8 B529
- 12677 SILVESTRI, F. Contribution to the knowledge of the termitophilous Termitodiscinae and Cephaloplectinae (Staphylinidae, Coleoptera). (In Italian and Latin.) Arch. Zool. Ital. 31: 123-149. 1943/1946, pub. 1947. 410 Ar22
- Includes n. spp. and forms in: *Termitodiscus*, 2; *Lisodiscus*, 2; *Termitomus* n. g., 2; *Urolitus* n. g.
- 12678 SMEDT, A. DE. White grubs [*Melolontha* spp.] and their control. (In Flemish.) Tuinbouwberichten 12: 59-60. Apr. 15, 1948. 80 T817
- 12679 SNAPP, O. I. New insecticides for control of plum curculio [*Conotrachelus nenuphar*] on peach. J. Econ. Ent. 41: 569-574. Aug. 1948. 421 J822
- Tests with chlordane, toxaphene, hexaethyl tetraphosphate, tetraethyl pyrophosphate, Ryania, parathion, and benzene hexachloride.
- 12680 STEFANO, F. DI, and SIMONCELLI, F. L. Influence of animal parasites on the principal constituents of flour. 1. Behavior of ashes and cellulose. (In Italian.) An. di Chim. Appl. 38:491-504. Aug. 1948. 385 An7
- Infestation with *Tribolium confusum*.
- 12681 TISSOT, A. N., and HUME, H. H. Leaf beetles attacking Camellias. Amer. Camellia Ybk. 1948: 100-106. 97.31 Am32
- Rhabdopterus* spp.



- 12682 VA YSSIERE, P. Sur le Capnodis tenebrionis des arbres à noyaux. Acad. d'Agr. de France. Compt. Rend. 34: 845. June 30/July 7, 1948. 14 P215Bc
- 12683 WALLACE, C. R. A new poison bait for black beetle [Heteronychus sanctae-helenae]. Agr. Gaz. N. S. Wales 59: 435. Aug. 1948. 23 N472
- 12684 WATTS, J. G. Cotton insect control with organic insecticides. J. Econ. Ent. 41: 543-547. Aug. 1948. 421 J822
- Control of Anthonomus grandis and Aphis gossypii with DDT, benzene hexachloride, and toxaphene.
- 12685 WATZL, O. Die bekämpfung der maikäfer und englerlinge. Bundesanst. f. Pflanzenschutz. Flugbl. 44, 4 p. 1948. 424.9 V672F
- Melolontha melolontha and M. hippocastani.
- 12686 WERNER, F. G., and EDWARDS, R. L. Leptinus americanus Leconte taken on a shrew (Coleoptera-Leptinidae). Psyche 55: 51-54. June 1948. 421 P95
- 12687 WILKINS, V. E. International scheme for the control of Colorado [potato] beetle [Leptinotarsa decemlineata]. Gt. Brit. Min. Agr. Agriculture 55: 307-310. Oct. 1948. 10 G79J
- 12688 WOODS, R. P. The Lyctus beetle and its control. T. D. A. Q. Rev. 2(5): 15. Oct. 1948. 99.9 T48T
- 12689 ZARIBNICKY, F. Einige beobachtungen über den brotkäfer [Stegobium paniceum]. Wiener Tierärztl. Monatsschr. 34: 778-784. Dec. 1947. 41 T345

## DIPTERA

- 12690 ANDREWS, H. W. Rhingia campestris, Mg., and Syrphus balteatus, De Geer. Ent. Rec. & J. Variation 60: 107. Oct. 1948. 421 En89
- 12691 BAILEY, N. S. Notes on Tabanus atratus subsp. nantuckensis Hine (Diptera). Psyche 55: 131-138. Ref. Sept. 1948. 421 P95
- 12692 BAKER, W. K. The production of chromosome interchanges in Drosophila virilis. (Abs.) Genet. Soc. Amer. Rec. 17: 30-31. 1948. 442.9 G28
- 12693 BARBER, G. W., STARNES, O., and STARNES, E. B. Resistance of house flies [Musca domestica] to insecticides. Soap & Sanit. Chem. 24(11): 120-121, 143. Nov. 1948. 307.8 So12
- 12694 BATEMAN, A. J. Intra-sexual selection in Drosophila melanogaster. (Abs.) Heredity 2: 277. Sept. 1948. 443.8 H42
- 12695 BHATTACHARYA, S. A test for mutagenicity of methylcholanthrene. Nature [London] 162: 573. Oct. 9, 1948. 472 N21
- Tests on Drosophila.
- 12696 BOCZKOWSKA, M. Quelques observations sur Megaselia rufipes Meig. et ses rapports avec le doryphore (Leptinotarsa decemlineata Say). Soc. Linn. de Lyon. B. Mens. 16: 4-5. Jan. 1947. 505 L992B
- 12697 BOYSEN-JENSEN, P. Formation of galls by Mikiola fagi. Physiol. Plant. 1: 95-108. 1948. 450 P564
- 12698 CLANCY, C. W. Comparative measurements of eye color pigment in Drosophila melanogaster. (Abs.) Genet. Soc. Amer. Rec. 17: 33. 1948. 442.9 G28
- 12699 CLANCY, C. W., and WELBORN, W. S. Ovary transplants in Drosophila melanogaster: location of factors affecting fertility of lozenge females. (Abs.) Genet. Soc. Amer. Rec. 17: 34. 1948. 442.9 G28
- 12700 COUDERT, J. Présence de Phlebotomus [i.e. Flebotomus] papatasi (Scopoli. 1786) à Gigondas (Vaucluse). Soc. Linn. de Lyon. B. Mens. 16: 53-54. Mar. 1947. 505 L992B
- 12701 DETHIER, V. G., and CHADWICK, L. E. The stimulating effect of glycols and their polymers on the tarsal receptors of blowflies [Phormia regina]. J. Gen. Physiol. 32: 139-151. Ref. Nov. 20, 1948. 447.8 J822
- 12702 DREYFUS, A. Analysis of sexual isolation between Drosophila paranaensis females and D. para-repleta males. (Abs.) Heredity 2: 278. Sept. 1948. 443.8 H42
- 12703 EICHLER, W. "Dasselbeulen" bei vögeln. Berlin. u. München. Tierärztl. Wochnschr. 1948: 32. Mar. 1948. 41.8 B45
- 12704 FLOCH, H., and CHASSIGNET, R. Phlébotomes [Flebotomus] de la Guyane Française. (XIX-XXI). Inst. Pasteur de la Guyane et du Ter. de l'Inini. P. 152, 3 p.; 155, 5 p.; 157, 3 p. May-July, 1947. 448.9 In77
- XIX. P. colas-belcouri n. sp. XX. P. dendrophyllus Mangabeira, 1942 et P. quadrispinosus n. sp. XXI. P. abbonnenci n. sp.
- 12705 FLOCH, H., and ABONNENC, E. Phlébotomes [Flebotomus] de la Guyane Française (XXII). Clef d'identification de 144 phlébotomes mâles du nouveau continent. Inst. Pasteur de la Guyane et du Ter. de l'Inini. P. 161, 17 p. Sept. 1947. 448.9 In77
- 12706 FOX, A. S. Antigenic effects of certain single gene mutations in Drosophila melanogaster. (Abs.) Genet. Soc. Amer. Rec. 17: 37. 1948. 442.9 G28
- 12707 GIBSON, A. Sheep ticks [Melophagus ovinus], the enemy of sheep and goats. Family Herald & Weekly Star 79(47): 14. Nov. 24, 1948. 7 F21
- 12708 GIBSON, J. M. The housefly and disease. Service 13(3): 22, 24. Oct. 1948. 280.8 Se62
- Musca domestica.
- 12709 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. The sheep nostril fly [Oestrus ovis]. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 7, 4 p. July 1948. 41.9 G792A
- 12710 GUNDERSON, H. Cattle grubs hurt dairy production. Hoard's Dairyman 93: 900. Dec. 10, 1948. 44.8 H65
- Hypoderma.
- 12711 HABERMAN, W., and MORGAN, B. B. The occurrence of Hypoderma larvae in the spinal canal of cattle (Diptera: Oestridae). (Abs.) J. Parasitol. 34(6, sup.): 18. Dec. 1948. 448.8 J824
- 12712 HADORN, E. Gene action in growth and differentiation of lethal mutants of Drosophila. Soc. Expt. Biol. Symposia 2: 177-195. Ref. 1948. 442.9 So15
- 12713 HADORN, E., and BERTANI, G. Induktion männlicher pigmentierung in somatischen zellen von Drosophila-ovarien. Rev. Suisse de Zool. 55: 232-243. July 1948. 410 R324
- 12714 HELY, P. C. Bean fly [Agromyza phaseoli] control. Agr. Gaz. N. S. Wales 59: 419-420. Aug. 1948. 23 N472
- 12715 HERSKOWITZ, I. H. Hexaptera, a homoeotic mutant in Drosophila melanogaster. (Abs.) Genet. Soc. Amer. Rec. 17: 40. 1948. 442.9 G28
- 12716 HINTON, T. Analysis of chromosomal rearrangements affecting the expression of a position-effect [in Drosophila melanogaster]. (Abs.) Genet. Soc. Amer. Rec. 17: 40. 1948. 442.9 G28
- 12717 HSU, W. S. Some observations on the Golgi material in the larval epidermal cells of Drosophila melanogaster. Biol. B. 95: 163-168. Oct. 1948. 442.8 B52
- 12718 IVES, P. T. Seasonal shift in frequency of lethal chromosomes in the local wild population of Drosophila melanogaster. (Abs.) Genet. Soc. Amer. Rec. 17: 42-43. 1948. 442.9 G28
- 12719 JAMES, M. T. Flies of the family Stratiomyidae of the Solomon Islands. U. S. Natl. Mus. Proc. 98: 187-213. 1948. 500 Sm65P
- Includes n. spp. and forms in: Eulalia, 5; Ruba; Monacanthomyia; Ptilocera, 2; Artemitomima n. g.; Adraga; Pegadomyia; Lophoteles.
- 12720 JANICKI, J., and NIEWIAROWICZ, A. The gadfly [Hypoderma bovis] as an enemy of the breeder and of the leather industry. (In Polish.) Przegl. Hodowlany 16: 158-162. June 1948. 49 P952
- English summary.
- 12721 JEFFERSON, R. N., and PENCE, R. J. Preliminary experiments on the control of the leaf miner Liriomyza flaveola on asters. J. Econ. Ent. 41: 653-655. Aug. 1948. 421 J822
- Tests with chlordane, benzene hexachloride, and parathion.
- 12722 KESSEL, E. L. Australian sod fly introduced into California (Diptera: Stratiomyidae). Science 108: 607. Nov. 26, 1948. 470 Sci2
- Metoponia rubriceps.
- 12723 KESSEL, E. L. Field observations on Ogcodes pallidipennis Loew (Diptera: Acroceratidae). Wasman Collect. 7: 115-116. Aug. 1948. 442.8 W28
- 12724 KOERT, J. L. Treatment of onion seed for the control of onion maggot [Hylemya antiqua] infestation. (In Dutch.) Groenten en Fruit 3: 469. Mar. 4, 1948. 80 G89
- 12725 LEBEDEV, D. V. Effect of chemical substances on mutation in genes. (In Russian.) Priroda 37(3): 72-74. Ref. Mar. 1948. 410 P933
- Chiefly experiments with Drosophila melanogaster.
- 12726 LEVENBOOK, L., and WANG, Y. L. Succinic acid in the blood of the larva of Gastrophilus intestinalis. Nature [London] 162: 731-732. Nov. 6, 1948. 472 N21



- 12727 LINDEN, L. VAN DER. Experiments in cabbage fly [*Hylemya brassicae*] control. (In Flemish.) *Tuinbouwberichten* 12: 56-57. Apr. 15, 1948. 80 T817
- 12728 LORUS, J., and MILNE, M. J. Goldenrod galls. *Fauna [Philadelphia]* 10: 91-93. Sept. 1948. 410 F27  
Due to *Eurosta solidaginis*, *Gnorimoschema gallaesolidaginis*, and *Itonididae*.
- 12729 MCKAY, K. G., and FURMAN, D. P. New cattle grub [*Hypoderma bovis*] shows up. *Calif. Farmer*, South. Ed. 139: 355. Oct. 23, 1948. 6 C126A
- 12730 MACKENZIE, P. Z. Big game and the tsetse fly [*Glossina*]. Safeguarding the future of African wild life. *Field* 192: 402-403. Oct. 9, 1948. 10 F45
- 12731 MARRYATT, E. R. Investigation of Australian soldier fly [*Metoponia rubriceps*] in Opotiki district. *New Zeal. J. Agr.* 77: 161, 163-164. Aug. 1948. 23 N48J
- 12732 MEYER, J. Observations sur la biologie de *Perrisia urticae* Perris, cecidomyie de l'ortie. *Rev. de Path. Vég. et d'Ent. Agr. de France* 27: 78-88. Ref. Apr. 1948. 464.9 Sol
- 12733 MITTLER, S. Genetic variation in populations of *Drosophila melanogaster* in the Chicago area. (Abs.) *Genet. Soc. Amer. Rec.* 17: 50. 1948. 442.9 G28
- 12734 MORLEY, F. H. W. Coping with the sheep blowfly. *Country Life [Sydney]* 60(13, Fat Lamb Sup.): 4, 8. Sept. 24, 1948. 286.85 Sy2
- 12735 MUIJZENBERG, E. W. B. V. D. Control of the cabbage maggot [*Hylemya brassicae*]. (In Dutch.) *Groenten en Fruit* 3: 504. Mar. 18, 1948. 80 G89
- 12736 NAJERA ANGULO, L. La lucha contra la moscas (monografía para médicos). Madrid, 1947. 204 p. 428 N14
- 12737 NAJJAR, H. Controlling the melon fruit fly [*Myiopardalis pardalina*]. (In Arabic.) *Syria. Ext. Serv. C. 7*, 8 p. June 1947. 22.5 Sy8  
English summary.
- 12738 NAJJAR, H. The ox-warble [*Hypoderma bovis*] and ringworm of cattle. (In Arabic.) *Syria. Ext. Serv. C. 18*, 8 p. Feb. 1948. 22.5 Sy8
- 12739 NEEDHAM, J. G. An agronomized leaf-miner and its parasites. *Fla. Ent.* 31: 62-64. Sept. 1948, pub. Nov. 6, 1948. 420 F662  
*Agromyza maculosa* and parasites, *Chrysocharis* sp?, *Opius* n. sp., and *Oenonogaster* n. sp. reared from *Bidens pilosa*.
- 12740 NOSKIEWICZ, J. La description de la femelle de *Lampetia crymensis* Param. (Dipt.). (In Polish.) *Polskie Pismo Ent.* 18(1): 95-98. 1939/1948. 421 P76  
French summary.
- 12741 PRYOR, M. G. M. Mouthparts and feeding habits of *Blepharoceridae* (Diptera). *Roy. Ent. Soc. London. Proc. Ser. A: Gen. Ent.* 23: 67-70. Sept. 15, 1948. 420 L84Pa
- 12742 RINGDAHL, O. Dipterologische notizen 3. Bemerkungen zu schwedischen Sciomyziden. *Opuscula Ent.* 13: 52-54. 1948. 421 Op7
- 12743 ROBB, T. R. Wyoming conducts large scale sheep dusting tests for control of sheep ticks [*Melophagus ovinus*]. *Wyo. Stockman-Farmer* 54(11): 3. Nov. 1948. 6 W992
- 12744 ROKOSKY, E. J. A bot-fly [*Sarcophaga cistudinis*] parasitic in box turtles. *Nat. Hist. Misc.* 32, 2 p. Nov. 22, 1948. 500 C43Na
- 12745 ROUBAUD, E., and COLAS-BELCOUR, J. Épreuve sur glossines [*Glossina* spp.] de la non-transmissibilité cyclique de souches de *Trypanosoma gambiense* entretenues au laboratoire. *Soc. de Path. Exot. B.* 41: 343-347. 1948. 448.9 Sol3
- 12746 ROUBAUD, E. Transmission cyclique à Paris de *Trypanosoma congolense* Broden, par des *Glossina* palpalis importées du Congo Belge; xénodiagnostic de l'infection transmise. *Soc. de Path. Exot. B.* 41: 405-413. 1948. 448.9 Sol3
- 12747 RUBTSOV, I. Reappearance of a domestic fly with a resistance to DDT following a three year use of the insecticide. (In Russian.) *Priroda* 37(4): 62-63. Apr. 1948. 410 P933  
In Italy.
- 12748 SABROSKY, C. W. A synopsis of the Nearctic species of *Elachiptera* and related genera (Diptera, Chloropidae). *Wash. Acad. Sci. J.* 38: 365-382. Nov. 15, 1948.
- Includes n. spp. in: *Eribolus*; *Melanochaeta*; and *Elachiptera*.
- 12749 SALLES, H. On the genitalia of *Drosophilidae* (Diptera): I. *Drosophila melanogaster* and *D. simulans*. (In Portuguese.) *Summa Bras. Biol.* 3: 311-383. Ref. Dec. 1947. 442.9 F96
- 12750 SANT, L. E. VAN'T. Control of onion maggot [*Hylemya antiqua*]. (In Dutch.) *Groenten en Fruit* 3: 534. Apr. 1, 1948. 80 G89
- 12751 SCHMIDT, G. *Rondania cucullata* Rob. als parasit des rübenderbrüsslers [*Bothynoderes punctiventris*]. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.)* 2: 82. May/June 1948. 464.9 N11
- 12752 SIGALAS, R., and PAUTRIZEL, R. Sur quatre cas de myiases sous-cutanées à hypoderme [*Hypoderma lineatum*] chez l'homme. *Soc. de Path. Exot. B.* 41: 380-384. 1948. 448.9 Sol3
- 12753 SMITH, H. R. Cattle grub [*Hypoderma bovis*] eradication. *Texas Livestock J.* 7(10): 6, 28, 66-67. Oct. 15, 1948. 49 T29
- 12754 SNIPE, B. T., COOPER, R. S., and CLARK, S. W. Comparative effectiveness of variations in spray pressure, rotenone concentration, sulfur content, diluents and application methods in cattle grub [*Hypoderma*] control. *J. Econ. Ent.* 41: 635-642. Ref. Aug. 1948. 421 J822
- 12755 STALKER, H. D., and CARSON, H. L. Seasonal changes in gene arrangement frequencies and morphology of *Drosophila robusta*. (Abs.) *Genet. Soc. Amer. Rec.* 17: 58-59. 1948. 442.9 G28
- 12756 STEKLER, B. L. The use of diethylstilbestrol in the production of eye mutations in *Drosophila melanogaster*. (Abs.) *Biol. B.* 95: 258. Oct. 1948. 442.8 B52
- 12757 TJEDER, B. The Swedish *Prionocera* (Dipt. Tipulidae). *Opuscula Ent.* 13: 75-80. (To be cont.) 1948. 421 Op7
- 12758 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Mexican fruitfly [*Anastrepha ludens*] quarantine; lifting of permit and sterilization requirements. *U. S. Bur. Ent. and Plant Quar. B. E. P. Q.* 573, 2 p. Sept. 11, 1948. 1.9 F73
- 12759 VANDERPLANK, F. L. Experiments in cross-breeding tsetse-flies (*Glossina* species). *Ann. Trop. Med. & Parasitol.* 42: 131-152. Ref. Sept. 1948. 448.9 L75A
- 12760 VILLEE, C. A., and LOWENS, M. D. Barbituric acid as an inhibitor of growth and pupation in *Drosophila*. (Abs.) *Genet. Soc. Amer. Rec.* 17: 61-62. 1948. 442.9 G28
- 12761 VOGT, M. Zur labilen determination der imaginalscheiben von *Drosophila*. III. Analyse der manifestierungsbedingungen sowie der wirkungsweise der zu antennen- und palpusverdoppelungen führenden genmutation deform-recessive-Lüers (Dfd<sup>r</sup>-L). *Biol. Zentbl.* 66: 81-105. Ref. 1947. 442.8 B523
- 12762 WANSON, M., and LEBIED, B. Note sur le cycle gonotrophique de *Simulium damnosum*. *Rev. de Zool. et de Bot. Africaines* 41: 66-82. July 3, 1948. 410 R326
- 12763 WHITTINGHILL, M. The effects of methyl-bis (b-chloroethyl)amine upon recombination values in *Drosophila melanogaster*. (Abs.) *Genet. Soc. Amer. Rec.* 17: 63-64. 1948. 442.9 G28
- 12764 WILDE, J. DE. Control of the cabbage maggot [*Hylemya brassicae*] in time. (In Dutch.) *Groenten en Fruit* 3: 489. Mar. 11, 1948. 80 G89

## Culicidae

- 12765 ANDREWS, J. M., and GILBERTSON, W. E. Blueprint for malaria eradication in the United States. *Natl. Malaria Soc. J.* 7: 167-170. Sept. 1948. 448.9 N213  
Includes mosquito control.
- 12766 BRELAND, O. P. Notes on the mosquito, *Uranotaenia syntheta* Dyar & Shannon (Diptera: Culicidae). *Mosquito News* 8: 108-109. Sept. 1948. 421 M85
- 12767 DALENCOUR, L. Hedges of *Bromelia pinguin* L. a source of mosquito breeding in Haiti. *Mosquito News* 8: 109-110. Sept. 1948. 421 M85
- 12768 FLETCHER, O. K., JR. Ducks as mosquito predators. *Natl. Malaria Soc. J.* 7: 186. Sept. 1948. 448.9 N213
- 12769 FLOCH, H., and ABONNENC, E. Distribution des Anophèles en Guyane Française. *Inst. Pasteur de la Guyane et du Ter. de l'Inini. P.* 144, 9 p. Jan. 1947. 448.9 In77



- 12770 FLOCH, H., and ABONNENC, E. Distribution des Culicines des genres autres que le genre *Culex*, en Guyane Française. Inst. Pasteur de la Guyane et du Ter. de l'Inini. P. 148, 12 p. Feb. 1947. 448.9 In77
- 12771 FLOCH, H., and ABONNENC, E. Distribution des moustiques du genre *Culex* en Guyane Française. Inst. Pasteur de la Guyane et du Ter. de l'Inini. P. 146, 9 p. Jan. 1947. 448.9 In77
- 12772 FLOCH, H. L'endémo-épidémie palustre en Guyane Française. Inst. Pasteur de la Guyane et du Ter. de l'Inini. P. 163, 12 p. Oct. 1947. 448.9 In77  
Includes list of *Anopheles* spp. found in French Guiana.
- 12773 FRIZZI, G. Salivary chromosomes in *Anopheles maculipennis*. (In Italian.) Sci. Genet. 3(1): 67-79. Dec. 1, 1947. 442.8 Sci2  
Summaries in Latin, English and German.
- 12774 FRIZZI, G. Sex determination in the genus *Anopheles*. (In Italian.) Sci. Genet. 3(1): 80-88. Dec. 1, 1947. 442.8 Sci2  
Summaries in Latin, English and German.
- 12775 GINSBURG, J. M. Toxicity of parathion to mosquitoes. J. Econ. Ent. 41: 649-650. Aug. 1948. 421 J822
- 12776 GUPTA, S. R. D. Preliminary observations on the role of blue green algae in fishery ponds and in the control of mosquito breeding. Cur. Sci. 17: 268-269. Sept. 1948. 475 Sci23
- 12777 HADDOW, A. J. The mosquitoes of Bwamba County, Uganda. VI. Mosquito breeding in plant axils. B. Ent. Res. 39: 185-212. Ref. Aug. 1948. 421 B87
- 12778 HENDERSON, J. M. The eradication of *Anopheles albimanus* in Puerto Rico—an ecologic discussion. II. Mosquito News 8: 97-101. Sept. 1948. 421 M85
- 12779 HERNÁNDEZ LIRA, P. Algunos aspectos de la epidemiología del paludismo en el nordeste de la República Mexicana. Ofic. Sanit. Panamer. B. 27: 699-705. Aug. 1948. 449.9 P192B  
English summary.  
Chief vectors are *Anopheles pseudopunctipennis*, *A. punctipennis*, *A. quadrimaculatus*, and *A. albimanus*.
- 12780 HSU, K. C. Malaria in southern and western Szechuan with a note on the occurrence of schistosomiasis japonicum. Chin. Med. J. 66: 319-323. Ref. June 1948. 448.8 C44  
Survey showed *Anopheles hyrcanus sinensis* prevalent, *A. minimus*, *A. pattoni*, *A. barbirostris*, and *A. hyrcanus nigerrimus* also present.
- 12781 HURLBUT, H. S., and THOMAS, J. I. The cyclic transmission of Japanese encephalitis by *Culex quinquefasciatus*, utilizing young albino mice. (Abs.) J. Parasitol. 34(6, sup.): 26-27. Dec. 1948. 448.8 J824
- 12782 JOBBINS, D. M. Some mosquito control problems along the Inter-American Highway in Central America. Ofic. Sanit. Panamer. B. 27: 823-826. Sept. 1948. 449.9 P192B  
Same in Spanish, p. 819-823.
- 12783 JOYCE, C. R. *Culex chidesteri* Dyar (Diptera, Culicidae) at Brownsville, Texas. Mosquito News 8: 102-105. Sept. 1948. 421 M85
- 12784 JUCCI, C. Genetic possibilities of an *Anopheles* population. (In Italian.) Sci. Genet. 3(1): 1-12. Dec. 1, 1947. 442.8 Sci2  
Summaries in Latin, English and German.  
Outline of cytological and genetical research.
- 12785 LEESON, H. S., and THEODOR, O. Mosquitos of Socotra. B. Ent. Res. 39: 221-229. Ref. Aug. 1948. 421 B87  
Includes *Anopheles dthali wardi* n. var.
- 12786 LENERT, L. G., and LEGWEN, W. A. A review of current Georgia malaria control operations. Natl. Malaria Soc. J. 7: 187-197. Sept. 1948. 448.9 N213  
Including mosquito control.
- 12787 LU, S. C., and CHANG, P. H. A preliminary survey of the mosquitoes in Nanking. Ent. News [Nanking] 2: 25-27. Apr. 1948. 421 En816
- 12788 MACDONALD, G. The present state of malaria control. United Empire 39: 241-242. Sept./Oct. 1948. 501 L844J  
Discussion, p. 242-243.  
Includes mosquito control.
- 12789 MACKERRAS, M. J., and ERCOLE, Q. N. Observations on the development of human malarial parasites [*Plasmodium vivax*; *P. falciparum*] in the mosquito [*Anopheles punctulatus punctulatus*]. I-II. Austral J. Expt. Biol. & Med. Sci. 26: 439-458. Ref. Sept. 1948. 442.8 Au7  
I. Morphological changes, p. 439-477. II. Factors influencing infection, p. 449-458.
- 12790 PRATT, H. D. Influence of the moon on light trap collections of *Anopheles albimanus* in Puerto Rico. Natl. Malaria Soc. J. 7: 212-220. Sept. 1948. 448.9 N213
- 12791 RALEY, T. G. Development and use of the "one man unit" in California. Mosquito News 8: 106-108. Sept. 1948. 421 M85
- 12792 RUBTSOV, I. A. An innovation in the control of malarial mosquitoes. (In Russian.) Priroda 37(3): 71-72. Mar. 1948. 410 P933  
Italian method of spraying with a 5 percent DDT suspension in kerosene.
- 12793 RUSSELL, P. F. Mosquito control in retrospect and prospect. Mosquito News 8: 117-121. Ref. Sept. 1948. 421 M85
- 12794 SEATON, H. B., and CUTKOMP, L. K. Air-plane distribution of insecticides and herbicides for malaria control. Natl. Malaria Soc. J. 7: 221-230. Sept. 1948. 448.9 N213
- 12795 STAGE, H. H. Bibliography section; references to literature of interest to mosquito control workers and malariologists. Mosquito News 8: 130-136. Sept. 1948. 421 M85
- 12796 SYMES, C. B. Synthetic insecticides and malaria. Rev. Agr. de l'Ile Maurice 27: 113-121. May/June 1948. 24 M44  
Mosquito control.
- 12797 TARZWELL, C. M. Effects of routine DDT mosquito larviciding on wildlife. Natl. Malaria Soc. J. 7: 199-206. Sept. 1948. 448.9 N213
- 12798 VISWANATHAN, D. K., and BHATT, H. R. A new species of Protozoa met with in the salivary glands of *A[nopheles] culicifacies*, Giles, in the course of routine malaria survey—*Trypanosoma kalwanensis* Viswanathan and Bhatt (1948). Natl. Malaria Soc. J. 7: 207-211. Sept. 1948. 448.9 N213
- 12799 WOLFS, J. *Culex* (*Culex*) *zombaensis* Theobald; description de la larve et la nymphe. Rev. de Zool. et de Bot. Africaines 41: 87-90. July 3, 1948. 410 R326
- 12800 WOLFS, J. *Taeniorhynchus* (*Coquillettia*) *vanoyei* sp. n. (Dipt. Culicidae). Rev. de Zool. et de Bot. Africaines 41: 83-86. July 3, 1948. 410 R326
- 12801 YOUNG, M. D., EYLES, D. E., and BURGESS, R. W. Studies on imported malarias. 10. An evaluation of the foreign malarias introduced into the United States by returning troops. Natl. Malaria Soc. J. 7: 167-170. Sept. 1948. 448.9 N213  
With observations on mosquito vectors.
- 12802 ZULUETA, J. DE, and BATES, M. Laboratory experiments with selection of oviposition site by *Anopheles darlingi*. Amer. J. Hyg. 48: 350-360. Ref. Nov. 1948. 449.8 Am3

## HEMIPTERA (HETEROPTERA AND HOMOPTERA)

- 12803 ABBOTT, C. E. Cannibalism in *Leptocoris trivittatus* Say. Brooklyn Ent. Soc. B. 43: 112-113. Oct. 1948. 420 B79
- 12804 ALIBERT, H. Le faux tigre du poirier. Rev. Agr. de l'Afrique du Nord 46: 461. Sept. 10, 1948. 80 R326  
A hemipterous pest.
- 12805 BAAS, J. Die San José-schildlaus [*Aspidiotus perniciosus*]. Natur u. Volk 78: 58-65. June 1, 1948. 509 F856
- 12806 BALACHOWSKY, A. Sur le statut et la biologie de *Quadraspidotus* [i.e. *Aspidiotus*] *ostreaeformis* Curtis et de *Quadraspidotus* [i.e. *Aspidiotus*] *pyri* Licht, cochenilles nuisibles aux cultures fruitières. Rev. de Path. Vég. et d'Ent. Agr. de France 27: 89-97. Ref. Apr. 1948. 464.9 So1
- 12807 BARBER, H. G. Concerning *Esuris Barber* (not Stål) and *Neosuris Barber*, with a new subspecies from Idaho. (Hemiptera-Heteroptera: Lygaeidae). Psyche 55: 84-86. June 1948. 421 P95
- 12808 CARAYON, J. Les organes parastigmatiques des Hémiptères Nabidae. Paris. Acad. des Sci. Compt. Rend. 227: 864-866. Oct. 27, 1948. 505 P21



- 12809 COSTA, R. G., and REDAELLI, D. C. Coccineals or Coccidae of Rio Grande do Sul. (In Portuguese.) *Rev. Agron.* 12: 61-70. Apr./June 1948. 9.2 R325
- 12810 DEBACH, P., FLESCNER, C. A., and DIETRICK, E. J. Natural control of the California red scale [*Aonidiella aurantii*] on citrus. *Calif. Citrog.* 34: 6, 38-39. Nov. 1948. 80 C125
- 12811 DEBACH, P., FLESCNER, C. A., and DIETRICK, E. J. New findings in natural control of red scale [*Aonidiella aurantii*]. Experiments show treating not needed where golden chalcid [*Aphytis chrysomphali*] exist abundantly. *Citrus Leaves* 28(12): 10-11. Dec. 1948. 80 C492
- 12812 DELONG, D. M. Two new species of *Neokolla* closely related to *gothica* (Homoptera: Cicadellidae). *Pan-Pacific Ent.* 24: 141-144. July 1948. 421 P193  
N. *severini*; N. *aridella*.
- 12813 DRAKE, C. J., and SALMON, J. T. A second *Xenophyes* [*X. forsteri*] from New Zealand (Homoptera: Perlodidae). *New Zeal. Dominion Mus. Rec. Ent.* 1: 63-67. June 1948. 421 W46
- 12814 DUEWELL, H., and others. Colouring matters of the Aphididae. *Nature* [London] 162: 759-761. Nov. 13, 1948. 472 N21  
J. P. E. Human, A. W. Johnson, S. F. MacDonald, and A. R. Todd, joint authors.
- 12815 DUTT, N. Coccidean pests on the fruit trees of Darjeeling District. *Sci. and Cult.* 14: 121-122. Sept. 1948. 475 Sci24
- 12816 ENGEL. Die San-José-schildlaus [*Aspidiotus perniciosus*]. *Landpost* 4(13): 1-2. July 10, 1948. 18 L2329
- 12817 ENGELHARDT. Blattlausfeinde. Unser Wegweiser im Obstbau, Gart., Kleintierhof 3: 93. Aug. 1948. 18 Un7
- 12818 ESSIG, E. O. The most important species of aphids attacking cruciferous crops in California. *Hilgardia* 18: 407-422. Ref. Sept. 1948. 100 C12H
- 12819 FJELDDALEN, J. Elm aphid [*Eriosoma ulmi*]. (In Norwegian.) *Norsk Hagetidend* 64: 183. Oct. 1/15, 1948. 80 N81
- 12820 FLANDERS, S. E. Biological control of yellow scale [*Aonidiella citrina*]. *Calif. Citrog.* 34: 56, 76-77. Ref. Dec. 1948. 80 C125  
Role of *Comperiella bifasciata*.
- 12821 FLOCH, H., and CAMAIN, R. Deux nouveaux cas de maladie de Chagas en Guyane Française. *Soc. de Path. Exot. B.* 41: 347-350. 1948. 448.9 Sol3  
Transmitted by *Rhodnius prolixus*.
- 12822 FLUKE, C. L. Buffalo treehopper [*Ceresa bubalus*] adults controlled with DDT. *J. Econ. Ent.* 41: 664-665. Aug. 1948. 421 J822
- 12823 GAMBRELL, F. L. Experiments with DDT for control of the potato leafhopper [*Empoasca fabae*] on apple nursery stock. *J. Econ. Ent.* 41: 651-652. Aug. 1948. 421 J822
- 12824 GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Green peach aphid [*Myzus persicae*] control in flue-cured tobacco. *Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper* 53, rev., 2 p. Nov. 1948. 100 G292M
- 12825 GHESQUIÈRE, J., and CARAYON, J. À propos de quelques *Antestia* et *Helopeltis* de l'Afrique tropicale (Hemiptera Pentatomidae et Miridae). *Ref. de Zool. et de Bot. Africaines* 41: 55-65. Ref. July 3, 1948. 410 R326  
Includes *A. intricata* and *H. rauwolfiae* n. spp., and *H. rauwolfiae fulva* n. var.
- 12826 GÓMEZ-MENOR ORTEGA, J. Adiciones a los "Coccidos de España." II. *Eos* 24: 73-121. Ref. Mar. 31, 1948. 421 Eo7  
Includes n. spp. in: *Filippia*; *Phenacoccus*; *Trabutina*; *Douglasiella*.
- 12827 HAMMARLUND, L. Plant lice control in 1948. (In Danish.) *Gart. Tid.* 64: 157. Mar. 24, 1948. 80 G192
- 12828 HAYSLIP, N. C. Insecticide studies on Chinese cabbage for the control of the turnip aphid, *Rhopalosiphum pseudobrassicæ* (Davis) and certain foliage feeding larvae. *Fla. Ent.* 31: 80-87. Sept. 1948, pub. Nov. 6, 1948. 420 F662
- 12829 HESLOP-HARRISON, G. The subfamily *Liviinae* Löw, of the homopterous family *Psyllidae*. I. General notes on the subfamily. *Ann. & Mag. Nat. Hist. (ser. 12)* 1: 284-293. Apr. 1948. 410 An77
- 12830 HUSSEY, R. F. *Esperanza texana* in Florida (Hemiptera, Coriscidae). *Brooklyn Ent. Soc. B.* 43: 115. Oct. 1948. 420 B79
- 12831 JANCKE, O., and ARNOLD, E. Stand der San-José-schildlaus-verseuchung und -bekämpfung in der Pfalz im Frühjahr 1948. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 77-80. May/June 1948. 464.9 N11  
*Aspidiotus perniciosus*.
- 12832 KITZMILLER, J. B. Time relationships in the development of aphid [*Macrosiphum sanborni*] wings. (Abs.) *Genet. Soc. Amer. Rec.* 17: 45. 1948. 442.9 G28
- 12833 KVÍCALA, B. A. Studies on the relationship between some aphides and the sugar beet mosaic virus (Beta virus 2). (In Czech.) *Vysoká Škola Zeměděl. Fakul. Hospodář. Sborn. Sign C* 38, 44 p. Ref. 1947. 105.92 B834  
English summary.
- 12834 LAL, K. B., and SINGH, R. N. Seasonal history and field ecology of the woolly aphis [*Eriosoma lanigerum*] in the Kamaun Hills. *Indian J. Agr. Sci.* 17: 211-218. Aug. 1947. 22 Ag831
- 12835 LEFEVRE, P. C. Derris powder, pyrethrum powder, and D.D.T. in the fight against *Antestia prox.* *lineaticollis* Stal. *Pyrethrum Post* 1: 20-23. July 1948. 421 P99
- 12836 LINDGREN, D. L. Scale insects on citrus; fumigation with hydrocyanic acid effective control treatment. *Calif. Agr. [Calif. Sta.]* 2(11): 7, 14. Nov. 1948. 100 C12Cag
- 12837 LUSCHER, M. Gewebekultur "in vivo" bei *Rhodnius prolixus* (Hemiptera). *Rev. Suisse de Zool.* 55: 227-232. July 1948. 410 R324
- 12838 MALENOTTI, E. Calcium cyanamide and Phylloxera. (In Italian.) *Ital. Vinic. ed Agr.* 38: 207-208. Sept. 30, 1948. 95.8 It1
- 12839 MASPOLI, A. O. *Margarodes vitium* Giard. *Vinos, Viñas y Frutas* 44: 121-122, 125-127, 152-153, 155-157. (Cont.) Aug.-Sept. 1948. 9 Ag89
- 12840 MAYNE, R., and BRENY, R. *Picromerus bidens* L.: la vie larvaire au premier âge. *Parasitica* 4: 20. 1948. 464.8 P21  
Flemish and German summaries.
- 12841 MIOTTO, G. Control of San José scale (*Aspidiotus perniciosus*). (In Italian.) *Gaz. Agr. [Padova]* 26 (3/4): 2. Jan. 31, 1948. 16 G254
- 12842 NAJJAR, H. Controlling plant lice. (In Arabic.) *Syria. Ext. Serv. C.* 5, 12 p. June 1947. 22.5 Sy8  
English summary.
- 12843 OSSIANILSSON, F. Four Hemiptera new to Sweden. (In Swedish.) *Opuscula Ent.* 13: 63. 1948. 421 Op7  
English summary.  
*Microvelia umbricola*, *Ceraletus lividus*, *Dimorphopterus spinolai*, and *Trioza bohemia*.
- 12844 PEDERSON, C. E., and SHERMAN, F., III. Field applications to control spittle bugs [*Philaenus leucophthalmus*] in Michigan. *J. Econ. Ent.* 41: 659-661. Aug. 1948. 421 J822
- 12845 PORTEZA, B. Noticias sobre la invasión filoxérica en Mallorca. *Balearic Isl. Diputación Prov. B. de Agr.* 45: 8-10. June 1948. 15 B19
- 12846 RAHMAN, K. A., and CHEEMA, P. S. Field studies on sugarcane black bug (*Macropes excavatus* Dist.) in the Punjab. *Indian J. Agr. Sci.* 17: 291-295. Oct. 1947. 22 Ag831
- 12847 RUNGS, C. Contribution au catalogue des Coccidae du Maroc. *Rev. de Path. Vég. et d'Ent. Agr. de France* 27: 110-117. Apr. 1948. 464.9 Sol1
- 12848 RUTHERFORD, D. M. Red scale [*Aonidiella aurantii*] is no problem in some citrus orchards. *Calif. Citrog.* 34: 55, 68-69. Dec. 1948. 80 C125
- 12849 SMITH, H. S., and FLANDERS, S. E. Search for parasites of red scale [*Aonidiella aurantii*] is reoriented. *Calif. Citrog.* 34: 4, 17-18, 20. Ref. Nov. 1948. 80 C125
- 12850 SMITH, J. D. Symbiotic micro-organisms of aphids and fixation of atmospheric nitrogen. *Nature* [London] 162: 930-931. Dec. 11, 1948. 472 N21
- 12851 SMITH, R. F., and MCFARLANE, N. L. 1948 recommendations for the control of lygus bugs in alfalfa seed fields. *Good Earth Mag* 2(12): 15-16. Oct. 1948. 6 G59
- 12852 SNAPP, O. I. Control of sucking bugs that cause deformed peaches. *J. Econ. Ent.* 41: 555-557. Aug. 1948. 421 J822  
DDT and benzene hexachloride for control of *Lygus oblineatus*, *Brochymena quadripustulata*, *Euschistus servus*, *E. tristigmus*, *Lygaeus bicrucis*, *Leptoglossus phyllopus*, and *L. oppositus*.



- 12853 SPEYER, W. Versuche zur beeinflussung der diapause der eier des apfelblattsaugers (*Psylla mali* Schmidberger). Z. f. Pflanzenkrank. 55: 85-89. Mar./Apr. 1948. 464.8 Z3
- 12854 SQUIRE, F. A. Entomological aspects of 'swollen shoot' of cacao. Nature [London] 162: 743. Nov. 6, 1948. 472 N21
- Transmitted by three species of Pseudococcidae.
- 12855 STEVENSON, W. A., and KAUFFMAN, W. Benzene hexachloride and other insecticides [DDT, Rynia] to control cotton insects in Arizona. J. Econ. Ent. 41: 583-585. Aug. 1948. 421 J822
- Airplane and hand dusting for control of *Lygus* spp., *Creontiades femoralis*, *Adelphocoris superbus*, *Psallus seriatus*, *Euschistus impictiventris*, *Chlorochroa sayi*, and *Thyanta custator*.
- 12856 THORNE, F. T. Additional host records for the scale *Parlatoria theae* in California. J. Econ. Ent. 41: 649. Aug. 1948. 421 J822
- 12857 THURMAN, D. C., JR., and others. Key to Florida Triatoma with additional distribution records for the species (Hemiptera, Reduviidae). Fla. Ent. 31: 57, 59-62. Sept. 1948, pub. Nov. 6, 1948. 420 F662
- J. A. Mulrennan, E. Basham, and D. J. Taylor, joint authors.
- 12858 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Republic of Switzerland; restrictions on account of San José Scale [*Aspidiotus perniciosus*]. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 413, rev., sup. 1, 5 p. Oct. 28, 1948. 1.9 F73
- 12859 WIGGLESWORTH, V. B. The role of the cell in determination. Soc. Expt. Biol. Symposia 2: 1-16. Ref. 1948. 442.9 So15
- Observations on *Rhodnius prolixus*.
- 12860 WYLIE, W. D. Tests of new insecticides for the control of aphids on celery in the Everglades. Fla. Agr. Expt. Sta. B. 446, 28 p. Aug. 1948. 100 F66S
- 12861 ZECK, E. H. The pine aphid (*Cinara thuja-folia*). Agr. Gaz. N. S. Wales 59: 422, 426. Aug. 1948. 23 N472
- 12862 ZIMMERMAN, E. C. Insects of Hawaii. v. 4-5. Honolulu, U. of Hawaii Press, 1948. Ref. 422.9 Z6
- v. 4. Homoptera: Auchenorrhyncha. v. 5. Homoptera: Sternorrhyncha.
- Tarophagus, n. g. in Delphacidae, v. 4, p. 245-247.
- ### HYMENOPTERA
- 12863 ARNOLD, G. New species of African Hymenoptera. No. 8. South. Rhodesia. Natl. Mus. Occas. Papers 2: 213-250. June 15, 1948. 515 R342
- New spp. and forms in: Cryptopone; Anochetus, 2; Monomorium; Sporocleptes n. g.; Calyptomyrmex, 3; Limnomyrmex n. g.; Tetramorium, 2; Microdaceton; Strumigenys; Camponotus, 2; Hemipepsis, 6; Cyphononyx, 2; Cryptochelilus; Priocnemis, 3; Marimba, 2; Ctenocerus, 5; Paracavelia.
- 12864 BAILEY, N. S. Pupal parasites of Tabanidae. Psyche 55: 112. Sept. 1948. 421 P95
- Diglochis occidentalis on Chrysops spp.
- 12865 BARATTE. Sur une attaque de la tenthrède de la rave [*Athalia rosae*] sur de la moutarde. Acad. d'Agr. de France. Compt. Rend. 34: 728. June 16/23, 1948. 14 P215Bc
- 12866 BEQUAERT, J. C. The genus Pachodynerus (Hymenoptera, Vespidae) in the Antilles. Psyche 55: 105-112. Sept. 1948. 421 P95
- Includes 2 n. spp. and forms.
- 12867 BLUNCK. Die grosse pflaumenlaus Brachycaudus cardui L. im schutz der rasenweise Lasius niger L. Z. f. Pflanzenkrank. 55: 91-92. Mar./Apr. 1948. 464.8 Z3
- 12868 BOHART, R. M. The genus Euparagia in North America (Hymenoptera, Vespidae, Euparagiinae). Pan-Pacific Ent. 24: 149-154. July 1948. 421 P193
- Includes 3 n. spp.
- 12869 BOHART, R. M. The red Stenodynerus of Florida (Hymenoptera, Vespidae). Fla. Ent. 31: 71-80. Sept. 1948, pub. Nov. 6, 1948. 420 F662
- Includes 5 n. spp. and forms.
- 12870 BUCHER, G. E. The anatomy of Monodontomerus dentipes Boh., an entomophagous chalcid. Canad. J. Res. Sect. D, Zool. Sci. 26: 230-281. Ref. Oct. 1948. 470 C16D
- 12871 CLARK, A. M., and MITCHELL, C. J. Dosage relations of haploids and diploids for the mutant stubby of Habrobracon [i.e. Microbracon]. (Abs.) Genet. Soc. Amer. Rec. 17: 34. 1948. 442.9 G28
- 12872 CLARK, A. M., and GROSCH, D. S. Fat cell size in the mutant small-wings of Habrobracon [i.e. Microbracon]. (Abs.) Biol. B. 95: 264. Oct. 1948. 442.8 B52
- 12873 DELEURANCE, E. P. Le comportement reproducteur est indépendant de la présence des ovaires chez Polistes (Hyménoptères Vespides). Paris. Acad. des Sci. Compt. Rend. 227: 866-867. Oct. 27, 1948. 505 P21
- 12874 DONISTHORPE, H. A redescription of the types of Strumigenys mandibularis F. Smith, and Cephaloxys capitata F. Smith. Psyche 55: 78-81. June 1948. 421 P95
- 12875 DOUTT, R. L. Arrenoclavus, a new genus of polyembryonic Encyrtidae (Hymenoptera). Pan-Pacific Ent. 24: 145-148. July 1948. 421 P193
- 12876 ESME, A. Le pruneau d'Agen peut revivre. Nature [Paris] 3161: 266-267. Sept. 1948. 473 N21
- Control of pests: Hoplocampa flava, Rhynchites bacchus.
- 12877 EVANS, H. E. Two new southwestern spider wasps (Hymenoptera: Pompilidae). Pan-Pacific Ent. 24: 123-130. July 1948. 421 P193
- Pompilus phoenix; Anoplius californiae.
- 12878 GHESQUIERE, J. Découverte du gn. Litomastix Thoms. [L. delattrei] en Afrique (Hym. Chalcidoidea Encyrtidae). Rev. de Zool. et de Bot. Africaines 41: 105-108. July 3, 1948. 410 R326
- 12879 GHIDINI, G. M. Considerations and proposals for control of the Argentine ant [Iridomyrmex humilis]. (In Italian.) Riv. Fitosanit. 2: 35-42. Ref. Aug. 1948. 464.8 R522
- 12880 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Gooseberry sawfly [Nematus ribesii]. Gt. Brit. Min. Agr. and Fisheries. Adv. Leaflet 30, 5 p. July 1948. 10 G79La
- 12881 GREENWALD, H. The control of ants by means of D.D.T. (In Hebrew.) Hassadeh 28: 512. Sept. 1948. 26 H27
- 12882 GROSCH, D. S. Growth in Habrobracon [i.e. Microbracon]. Growth 12: 243-254. Ref. Sept. 1948. 442.8 G91
- 12883 HASE, A. Über die holzwespe Xiphydria prolongata (Fam. Siricidae) und ihre praktische bedeutung. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 70-74. Ref. May/June 1948. 464.9 N11
- 12884 KAPUŚCINSKI, S. Some species of insect parasites new to the Polish fauna and new habitats of several species of those parasites belonging to the subfamily Pimplinae (Hymenoptera, Ichneumonidae). (In Polish.) Polskie Pismo Ent. 18(1): 69-76. Ref. 1939/1948. 421 P76
- English summary.
- 12885 KOWAL, R. J. Pine sawfly [Neodiprion pinirigidiae] in southern Arkansas. Forest Farmer 7(2): 3, 10. Nov. 1948. 99.8 F7692
- 12886 MARCUS, H. Un organo de estridulación en hormigas y termitas. Folia Univ. 1(1): 39-44. Dec. 1947. 516 F71
- German and English summaries.
- 12887 MARCUS, H. Los organos de copulación de Acromyrmex. Estudios mirmecológicos. V. Folia Univ. 1(1): 73-78. Dec. 1947. 516 F71
- German summary.
- 12888 MARTIN, A., JR., DENT, J. N., and JOSEPH, L. Effects of beta-rays on Habrobracon juglandis [i.e. Microbracon hebetor]. (Abs.) Genet. Soc. Amer. Rec. 17: 48-49. 1948. 442.9 G28
- 12889 MAYR, E. Gulls feeding on flying ants [Lasius sp.]. Auk 65: 600. Oct. 1948. 413.8 Au4
- 12890 MITCHELL, C. J. Decrease in cell size associated with high diploid male viability in Habrobracon [i.e. Microbracon]. (Abs.) Genet. Soc. Amer. Rec. 17: 49. 1948. 442.9 G28
- 12891 NOSKIEWICZ, J. Dioxys kuntzei n. sp. Hymenoptera, Apidae. (In Polish.) Polskie Pismo Ent. 18(1): 99-104. 1939/1948. 421 P76
- French summary.
- 12892 NOSKIEWICZ, J. Remarques sur quelques espèces du genre Megachile de la Silésie et des pays limitrophes. (In Polish.) Polskie Pismo Ent. 18(1): 31-58. 1939/1948. 421 P76
- French summary.
- Includes Macromegachile, n. sgen.



- 12893 PAOLI, G. Household and garden ants. (In Italian.) Riv. Fitosanit. 2: 14-21. Feb. 1948. 464.8 R522
- 12894 PARDI, L. Studies on the Polistini. 8. Spermatogenesis of *Polistes gallicus* (L.) and *Polistes (Leptopolistes) omissus* (Weyrauch). (In Italian.) Sci. Genet. 3(1): 14-22. Dec. 1, 1947. 442.8 Sci2  
Summaries in Latin, English and German.
- 12895 PATE, V. S. L. New pemphilid wasps from Southern Nigeria. U. S. Natl. Mus. Proc. 98: 149-162. 1948. 500 Sm65P  
Includes n. spp. in: *Encopognathus*, 2; *Lestica*. Also *Arnoldita* n. g.
- 12896 PATERSON, C. R. Spread of wasp nuisance; bounty for queens and issue of powder for nest destruction. New Zeal. J. Agr. 77: 271-272. Sept. 1948. 23 N48J
- 12897 RAY, D. T. Dominant lethals induced by x-rays in sperm of the chalcidoid wasp *Nasonia brevicornis* Ashmead (= *Mormoniella vitripennis* (Walker) fide Meusebeck in lit.). (Abs.) Biol. B. 95: 257-258. Oct. 1948. 442.8 B52
- 12898 RAYMENT, T. New bees and wasps. VII. Two undescribed species of *Exoneura*, with notes on recent collectings of several other *Exoneurae* and the extraordinary appendages of their larvae. Victorian Nat. 65: 85-91. Aug. 1948. 410 V66
- 12899 RIHERD, P. T. Results of tests made with some newer insecticides for the control of the red harvester ant, *Pogonomyrmex barbatus* (F. Smith). Fla. Ent. 31: 68-70. Sept. 1948, pub. Nov. 6, 1948. 420 F662  
Benzene hexachloride, DDT, chlordane, and toxaphene.
- 12900 ROGERS, C. The effects of the mutant small-wing on cell size and diploid male mortality in *Habrobracon* [i.e. *Microbracon*]. (Abs.) Genet. Soc. Amer. Rec. 17: 55. 1948. 442.9 G28
- 12901 RUIZ CASTRO, A. Como pueden combatirse las hormigas. II. Surco [Madrid] 7(77): 7-9. July 1948. 15 Su7
- 12902 SCHNAIDER, J. Southern guest: *Cynips mitrata* Mayr., *Cynips glutinosa* Gir. (Hym.). (In Polish.) Polskie Pismo Ent. 18(1): 79-80. 1939/1948. 421 P76  
English summary.
- 12903 SCULLEN, H. A. New species in the genus *Eucerceris* with notes on recorded species and a revised key to the genus (Hymenoptera: Sphecidae). Pan-Pacific Ent. 24: 155-164. (To be cont.) July 1948. 421 P193
- 12904 SIMMONDS, F. J. The biology of parasites of *Loxostege sticticalis* L. in North America. IV. *Cryptus inornatus* Pratt (Ichneumonidae, Cryptinae). Roy. Ent. Soc. London. Proc. Ser. A: Gen. Ent. 23: 71-79. Sept. 15, 1948. 420 L84Pa
- 12905 SOYER, B. Notes sur les Sphégiens et les Pompiles. VI. Soc. Linn. de Lyon. B. Mens. 16: 117-121. June 1947. 505 L992B  
*Dolichurus* and *Spheg* albisectus.
- 12906 STEVENS, O. A. Native bees. Bimonthly B. [N. Dak. Sta.] 10(6): 187-194. July/Aug. 1948. 100 N813B
- 12907 TEALE, E. W. The ants' camels. Nat. Hist. 57: 456-461. Dec. 1948. 500 N483J  
Observations on the membracid *Entylia sinuata*, cared for by *Camponotus herculeanus pennsylvanicus*, and providing it with honeydew.
- 12908 VIOTTO, F. Brief notes on *Lyda* attacking the pine groves of Aquila. (In Italian.) Riv. Fitosanit. 2: 52-53. Aug. 1948. 464.8 R522
- 12909 WHITING, A. R. Method of origin of androgenetic males in *Habrobracon* [i.e. *Microbracon*]. (Abs.) Biol. B. 95: 259. Oct. 1948. 442.8 B52
- 12910 WHITING, P. W., and BLAUCH, B. M. The genetic block to free oviposition in the chalcidoid wasp *Melittobia* sp.-C. (Abs.) Biol. B. 95: 243-244. Oct. 1948. 442.8 B52
- 12911 WHITING, P. W. Simultaneous (?) mutations in an inbred stock of *Habrobracon* [i.e. *Microbracon*]. (Abs.) Genet. Soc. Amer. Rec. 17: 63. 1948. 442.9 G28  
See also Apiculture and *Apis Mellifera*.
- 12912 AGENJO, R. El aparato auxiliar del andropigio en las *Epischia* Hb., y descripción de una nueva especie de este género [E. peroni] dedicada al excmo. Sr. Presidente de la Republica Argentina, General D. Juan Domingo Perón (Lep. Phycit.). Eos 24: 7-24. Mar. 31, 1948. 421 Eo7
- 12913 AGENJO, R. Sobre la morfología y distribución geográfica de *Issoria lathonia* (L.) en España (Lep. Nymph.). Eos 24: 29-55. Ref. Mar. 31, 1948. 421 Eo7  
Includes 7 new forms.
- 12914 ANFINNIKOV, M. A. Injuries to various trees caused by *Zeuzera pyrina*. (In Russian.) Priroda 37(7): 58-60. July 1948. 410 P933
- 12915 BAILEY, S. F. The peach twig borer [*Anarsia lineatella*]. Calif. Agr. Expt. Sta. B. 708, 56 p. Ref. Sept. 1948. 100 C12S
- 12916 BAKER, W. A., and BRADLEY, W. G. The European corn borer [*Pyrausta nubilalis*]; its present status and methods of control. U. S. D. A. Farmers' B. 1548, rev., 46 p. Sept. 1948. 1 Ag84F
- 12917 BEAUFOY, S., and BEAUFOY, E. M. A rare fenland butterfly [*Lycaena dispar batavus*]. Country Life [London]. 104: 886. Oct. 29, 1948. 80 C83
- 12918 BIRD, J. F. Notes on migrants and light in North Somerset during 1947. Ent. Rec. & J. Variation 60: 105-107. Oct. 1948. 421 En89  
Lepidoptera.
- 12919 BORDEN, A. D. Orange tortrix [*Argyrotaenia citrana*] causes fruit damage on prunés in central coast counties. Sunsweet Standard 32(6): 5. Nov. 1948. 286.83 Su7
- 12920 BORDEN, A. D. Two orchard pests causing serious fruit damage. Calif. Fruit & Grape Grower 2 (10): 7-8. Oct. 1948. 95.8 G762  
*Spilonota ocellana* and *Argyrotaenia citrana*.
- 12921 BOYD, T. D. Irish immigrant Lepidoptera. Irish Nat. J. 9: 180. July 1948. 410 Ir42
- 12922 BRAUN, A. F. Elachistidae of North America (Microlepidoptera). Amer. Ent. Soc. Mem. 13, 110 p. 1948. 420 P53M  
Includes *Hemiprosopa* n. g., and n. spp. in: *Onceroptila*; *Elachista*, 16; *Cosmiotes*.
- 12923 BRICHET, J. 'Un nouvel ennemi des oranges, une chenille dont les dégâts, croissant d'année en année, inquiètent les agrumiculteurs des régions littorales. Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc. 18: 337. Nov. 1948. 80 F9482  
Unidentified pest, probably a pyralid.
- 12924 CANO, F. Use of organic nitrate mixtures to control the codling moth [*Carpocapsa pomonella*]. (In Italian.) Riv. Fitosanit. 2: 24-25. Feb. 1948. 464.8 R522
- 12925 CARLSON, F. W., YOTHERS, M. A., and DEAN, F. P. DDT, benzene hexachloride and sabadilla to control climbing cutworms on peaches and apricots. J. Econ. Ent. 41: 655. Aug. 1948. 421 J822
- 12926 CASPARI, E., and RICHARDS, J. Differences in protein constitution of  $a^+a^+$  and  $aa$  *Ephestia*. (Abs.) Genet. Soc. Amer. Rec. 17: 33. 1948. 442.9 G28
- 12927 CHANDLER, S. C., and DECKER, G. C. Suggestions for use of DDT for codling moth [*Carpocapsa pomonella*] control in Illinois. Kans. State Hort. Soc. Bien. Rpt. 49: 37-46. 1948. 81 K13
- 12928 CHIAROMONTE, A. *Achaea catella* Guen. in Italian Somaliland. (In Italian.) Riv. di Agr. Subtrop. e Trop. 42: 181-186. Ref. July/Sept. 1948. 26 Ag82  
English summary.
- 12929 CHRISTENSEN, J. J., and SCHNEIDER, C. L. Corn borer [*Pyrausta nubilalis*] aggravates stalk and ear rot. Minn. Farm & Home Sci. [Minn. Sta.] 6: 6-7. Nov. 1948. 100 M668
- 12930 COUTIERE, G. La teigne du poireau. Potasse 22: 174-176. Oct. 1948. 57.8 P84  
*Acrolepia assectella*.
- 12931 CUNNINGHAM, G. Borers [*Pyrausta nubilalis*] are hiding in your cribs! Iowa Farm & Home Register 1948: 3-H. Dec. 5, 1948. 6 Io94
- 12932 DAIGLE, J. De la hideuse chenille au gracieux papillon. Foyer Rur. [Montreal] 7(12): 9, 11. Sept. 1948. 7 F83
- 12933 DAVIAULT, L. La tordeuse des bourgeons de l'épinette [*Choristoneura fumiferana*]. Forêt Québécoise 13: 659-663. Nov. 1948. 99.8 F79
- 12934 DIAKONOFF, A. Some general aspects in connection with the problem of stalk borers of sugar cane in Java and their parasites. (In Dutch.) Chron. Nat. 104: 230-236. Ref. Aug./Sept. 1948. 514 B31  
English summary.  
*Diatraea mauricella*, *D. auricilia*, *Chilo infuscatellus*, *Enarmonia schistaceana*, and *Sesamia inferens nonagrioides*, and their parasites.

## LEPIDOPTERA



- 12935 EDDY, B. From little monster to resplendent beauty—that's the tiger swallowtail [*Papilio glaucus*]. *Anim. Kingdom* 51: 152. Sept./Oct. 1948. 410.9 N483B
- 12936 ESHBAUGH, E. L., and PARKER, R. L. Two-spotted mite [*Tetranychus bimaculatus*], codling moth [*Carpocapsa pomonella*], and red-banded leafroller [*Argyrotaenia velutinana*] control during 1947. *Kans. State Hort. Soc. Bien. Rpt.* 49: 122-132. 1948. 81 K13
- 12937 EXT, W. Das massenaufreten der gammaeule, *Plusia gamma* L. in Schleswig-Holstein im Sommer 1946. *Z. f. Pflanzenkrankh.* 55: 75-81. Mar./Apr. 1948. 464.8 Z3
- 12938 FENTON, F. A., and BIEBERDORF, G. A. DN-289 and DN-dry mix No. 1 show promise in dormant sprays for pecan nut casebearer [*Acrobasis caryae*] control. *Down to Earth* 4(3): 8-9. Winter 1948. 381 D75
- 12939 FORBES, R. S. The spruce budworm [*Choristoneura fumiferana*] in the Maritimes and Newfoundland. *Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt.* 4: 1. July/Aug. 1948. 423.92 C16F
- 12940 FREEMAN, T. N. The Arctic Lepidoptera of Baker Lake, North West Territories. *Lepidopterists' News* 2: 63-65. June 1948. 421 L554
- 12941 GAUNITZ, C. B. *Tinea* [i. e. *Nemapogon*] *granella*. (In Swedish.) *Trädgårdstidningen* 20(5/6): 6-7. Mar. 1948. 80 T67
- 12942 GRAHAM, C. Four years tests with DDT for the control of peach tree borer [*Sanninoidea exitiosa*]. *Peninsula Hort. Soc. Trans.* 61: 29-32. 1947. 81 P37
- 12943 GREENWOOD, D. E., and HOFMASTER, R. N. Insecticide treatments for the control of the fall armyworm. *Tenn. Hort.* 26(10): 3-4, 10. Oct. 1948. 80 T25
- 12944 HALLEMANS, A. La lutte contre la teigne du poireau (*Acrolepia assectella*) au moyen de produits à base de D.D.T. *Courrier Hort.* 10: 540. Sept. 1948. 80 C834
- 12945 HELLER, J., MOKŁOWSKA-HELLER, A., and ŚWIECHOWSKA, W. Bivoltinismus and genetics. (In Polish.) *Polskie Pismo Ent.* 18(1): 81-90. 1939/1948. 421 P76
- English summary.  
Genetic study on length of diapause in a sphingid.
- 12946 HINTON, H. E. Sound production in lepidopterous pupae. *Entomologist* 81: 254-269. Ref. Nov. 1948. 421 En8
- 12947 HOERNER, J.-L. The cutworm *Loxagrotis albicosta* on beans. *J. Econ. Ent.* 41: 631-635. Aug. 1948. 421 J822
- 12948 HOVANITZ, W. Ecological segregation of inter-fertile species of *Colias*. *Ecology* 29: 461-469. Oct. 1948. 410 Ec7
- 12949 HUTCHINGS, S. J. The survival of *Colias croceus* Fourcroy in West Somerset. *Entomologist* 81: 270-271. Nov. 1948. 421 En8
- 12950 JODON, N. E., and INGRAM, J. W. Survey of rice varieties for possible resistance to stalk borers. *Rice J.* 51(9): 28. Sept. 1948. 59 R36
- Diatraea saccharalis* and *Chilo plejadellus*.
- 12951 KADOCSA, G. Der amerikanische weisse bärenspinner [*Hyphantria cunea*] in Ungarn. *Schweiz. Z. f. Obst- u. Weinbau* 57: 165-167. (Concl.) May 8, 1948. 80 Sch9
- 12952 KIEŁCZEWSKI, B. The rôle of *Hyponomeuta* spp. as hosts of parasitic Hymenoptera and Diptera in the forest. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 150-165. Ref. 1948. 20.5 R59
- English summary.
- 12953 KÖNIG, H. Flugzeugbestäubung gegen den kiefernspinner (*Dendrolimus pini*). *Forstwirtschaft. u. Holzwirtschaft.* 2: 305-315. Oct. 15, 1948. 99.8 F7793
- 12954 LORD, F. A. World's largest moth [*Coscinocera hercules*]. *Nat. Hist.* 57: 450-451. Dec. 1948. 500 N483J
- 12955 MARSHALL, G. E. Two DDT sprays will control the codling moth [*Carpocapsa pomonella*]. *Ind. Hort. Soc. Trans.* (1947) 87: 28. 1948. 81 In2
- 12956 MASELLI, V. Technico-economic considerations on the pine processionary caterpillar (*Thaumetopoea pityocampa* Schiff.). (In Italian.) *Ital. Forest. e Mont.* 3: 236-237. July/Aug. 1948. 99.8 It12
- 12957 MATHERS, W. G. Aerial spraying. *Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt.* 4: 3-4. July/Aug. 1948. 423.92 C16F
- Control of *Nepytia canosaria*.
- 12958 MENDES, F. Vanessa huntera Fabricius in Portugal. *Entomologist* 81: 272. Nov. 1948. 421 En8
- 12959 MORETTI, P. Epidemic in populations of rice leaf cutter (*Nymphula nymphaeata*). (In Italian.) *Risicoltura* 36: 65-69. Mar. 1948. 59.8 G43
- 12960 MORETTI, P. Toxic action of some compounds on the rice leaf cutter, *Nymphula nymphaeata*. (In Italian.) *Risicoltura* 36: 12-18, 41-49. (Concl.) Ref. Jan.-Feb. 1948. 59.8 G43
- 12961 MOWRY, P. Orange tortrix [*Argyrotaenia citrana*] and its control: new spray [DDD] shows great promise. *Calif. Fruit & Grape Grower* 2(10): 6. Oct. 1948. 95.8 G762
- 12962 NAJJAR, H. Controlling the codling moth [*Carpocapsa pomonella*]. (In Arabic.) *Syria. Ext. Serv. C.* 22, 24 p. Mar. 1948. 22.5 Sy8
- 12963 NAJJAR, H. Controlling the leopard moth [*Zeuzera pyrina*]. (In Arabic.) *Syria. Ext. Serv. C.* 25, 9 p. May 1948. 22.5 Sy8
- English summary.
- 12964 NEWMAN, L. H. Hillside, mountain and moorland butterflies. *Nature Lover* 5: 343-346. Aug. 1948. 410 N218
- Great Britain.
- 12965 NEWMAN, L. H. Insect transformations. *Field* 192: 379-380. Oct. 2, 1948. 10 F45
- Lepidoptera.
- 12966 NEWMAN, L. H. Our migrant butterflies. *Nature Lover* 5: 409-416. Sept. 1948. 410 N218
- Great Britain.
- 12967 OTTICICA FILHO, J. On the genitalia of the females of the Hepialidae (Lepidoptera). (In Portuguese.) *Summa Bras. Biol.* 3: 384-428. Dec. 1947. 442.9 F96
- Observations on *Phassus giganteus* and *Hepialus humuli*.
- 12968 O'LOUGHLIN, G. T. Codling moth [*Carpocapsa pomonella*] control; DDT trials in Southern Victoria. *Victoria. Dept. Agr. J.* 46: 442-444. Oct. 1948. 23 V66J
- 12969 OWEN, D. F., and BURTON, J. F. The spread of *Pararge aegeria* L. in N. W. Kent. *Entomologist* 81: 271-272. Nov. 1948. 421 En8
- 12970 PARKER, R. L., and ESHBAUGH, E. L. Codling moth [*Carpocapsa pomonella*] and red spider mite [*Tetranychus*] control in northeastern Kansas during 1946. *Kans. State Hort. Soc. Bien. Rpt.* 49: 47-57. 1948. 81 K13
- 12971 PARKER, W. L., STEARNS, L. A., and BEACHER, J. H. Results with DDT and toxaphene for codling moth [*Carpocapsa pomonella*] control, Delaware, 1947. *Peninsula Hort. Soc. Trans.* 61: 26-29. 1947. 81 P37
- 12972 PEMBERTON, C. E. The control of the grass armyworm, *Laphygma eximpta* (Walker), in Hawaii by parasites. *Hawaiian Planters' Rec.* 52: 181-200. Third/Fourth Quart. 1948. 25 H311
- 12973 PETERSON, L. The cecropia moth (*Platysamia* [i. e. *Samia*] *cecropia* L.) in Saskatchewan. *Canada. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt.* 4: 3. July/Aug. 1948. 423.92 C16F
- 12974 POGUE, R. The fall webworm [*Hyphantria cunea*], a tree hazard and unsightly, too. *Mo. Conserv.* 9(11): 16. Nov. 1948. 279.8 M69
- 12975 PRÜFFER, J. Some observations concerning *Zophodia convolutella* Hb. (Lep.). (In Polish.) *Polskie Pismo Ent.* 18(1): 24-30. 1939/1948. 421 P76
- English summary.
- 12976 PUREFOY, J. B. Aberrations of *Colias croceus* and *Argynnis euphrosyne*. *Entomologist* 81: 270. Nov. 1948. 421 En8
- 12977 REAL, P. Capture d'un gynandromorphe hybride. *Soc. Linn. de Lyon. B. Mens.* 16: 56-58. Mar. 1947. 505 L992B
- Augiades sylvanus* x *A. comma*.
- 12978 REAL, P. A propos du gynandromorphe d'*Augiades* capturé dans la nature. *Soc. Linn. de Lyon. B. Mens.* 16: 201. Dec. 1947. 505 L992B
- 12979 REMINGTON, C. L. How to make ♀ *Rhopalocera* lay eggs. *Lepidopterists' News* 2: 74. June 1948. 421 L554
- 12980 REMINGTON, C. L. Principles of taxonomy. *IV. Lepidopterists' News* 2: 62. June 1948. 421 L554
- 12981 RINGS, R. W., and WEAVER, C. R. Effects of benzene hexachloride and DDT upon parasitization of the oriental fruit moth [*Grapholitha molesta*, by *Macrocentrus ancylivorus* and *M. delicatus*]. *J. Econ. Ent.* 41: 566-569. Aug. 1948. 421 J822



- 12982 ROUGEOT, P. Note sur les papillons gabonais du genre *Drepanoptera* Roths. Soc. Linn. de Lyon. B. Mens. 16: 71-75. Apr. 1947. 505 L992B
- 12983 RUSSWURM, A. D. A. Life histories of our butterflies. 2. Nature Lover 5: 364-366. Aug. 1948. 410 N218  
Nymphalidae.
- 12984 SABOURIN, L. Contre les chenilles poudrez vos choux. Rustica 21: 521. Aug. 1, 1948. 14 R92
- 12985 SCALA, A. La tordeuse orientale du pêcher [*Grapholitha molesta*]. Cong. Pomol. de France. Sess. 78: 51-62. 1947. 93.09 C7643
- 12986 SCARAMUZZA, L. C., FERNÁNDEZ ARTILES, R., and FERNÁNDEZ PÉREZ, J. Resultados obtenidos con el control biológico del borer o perforador de la caña de azúcar [*Diatraea saccharalis*] en Cuba. Zafra 1(9): 26-30. Sept. 1948. 65.8 Z12
- 12987 SCHEDL, K. E. Nonnenstudie aus Österreich. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 139-141. Sept. 1948. 99.8 AL53  
*Lymantria monacha*.
- 12988 SCHMIDT, M. Die johannisbeermotte (*Incurvaria capitella* Cl.) in der Westprignitz (Brandenburg). Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 48-50. Ref. Mar./Apr. 1948. 464.9 N11
- 12989 SCHNAIDER, J. Aegeriidae (Lepidopt.). II. (In Polish.) Polskie Pismo Ent. 18(1): 105-112. 1939/1948. 421 P76  
English summary.  
Includes new forms in *Synanthedon*.
- 12990 SCHUH, J., and MOTE, D. C. The oblique-banded leaf roller [*Archips rosaceana*] on raspberries. Oreg. Agr. Expt. Sta. Tech. B. 13, 43 p. Apr. 1948. 100 Or3S
- 12991 SEVASTOPULO, D. G. A migration of *Vanessa cardui* L. in the Central Mediterranean. Entomologist 81: 271. Nov. 1948. 421 En8
- 12992 SIEGLER, E. H., and GERTLER, S. I. Laboratory tests of N-substituted m-nitrobenzamides against the codling moth [*Carpocapsa pomonella*]. J. Econ. Ent. 41: 658-659. Aug. 1948. 421 J822
- 12993 SILVA, P. Traça do cacau [*Ephestia elutella*?]. Chacaras e Quintais 78: 188. Aug. 15, 1948. 9.2 C34
- 12994 SIMES, J. G. *Melitaea merope* captured by a frog. Entomologist 81: 250. Nov. 1948. 421 En8
- 12995 SMIT, B. Codling moth [*Carpocapsa pomonella*] in pome fruits. Farming So. Africa 23: 517-518, 552. Aug. 1948. 24 So842
- 12996 SOŁTYS, E. A supplementary note on the Macrolepidoptera of the Szko district. (In Polish.) Polskie Pismo Ent. 18(1): 60-68. 1939/1948. 421 P76  
English summary.
- 12997 TAYLOR, G. G. Experiments for control of white-butterfly (*Pieris rapae* L.) and diamond-back moth (*Plutella maculipennis* Curt.) on cabbages. New Zeal. J. Sci. and Technol. A. Agr. Res. Sect. 29: 265-272. Feb. 1948. 514 N48A
- 12998 TESTOUT, H. Etudes lépidoptérologiques. XI, XV, XII-XIII. Révision du catalogue des espèces françaises du genre *Erebia* (Lépid. Satyridae). Soc. Linn. de Lyon. B. Mens. 16: 67-71, 83-86, 99-116, 170-173, 202-206. Apr.-June, Oct., Dec. 1947. 505 L992B
- 12999 TOMLINSON, W. E., JR. Cranberry fireworm and blossom worm. Cranberries 13(6): 22-24. (Cont.) Oct. 1948. 80 C852  
Notes on *Sparganothis sulfureana* and *Epiglaea apiata*.
- 13000 TONIN, M., and DONINI, G. Studies on the antibacterial activity of lepidopterous larvae of the family *Pyralidae*. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 315-318. Mar. 1948. 442.8 So12
- 13001 VALLE, A. Preliminary data on the chromosome cycle of *Lycaeides idas* L. Experientia 4: 388-389. Oct. 15, 1948. 475 Ex7
- 13002 WAGNER, W. H., JR., and GREYER, D. F. The butterflies of the Admiralty Islands. U. S. Natl. Mus. Proc. 98: 163-165. 1948. 500 Sm65P
- 13003 WATZL, O. Katastrophales erdraupenaufreten. Bundesanst. f. Pflanzenschutz. Flugbl. 37, 2 p. 1948. 464.9 V672F  
Outbreak of cutworms, principally *Agrotis segetum*.
- 13004 WHITCOMB, W. D., and GARLAND, W. J. Susceptibility of Cucurbitaceae to squash borer. Amer. Soc. Hort. Sci. Proc. 51: 445-447. June 1948. 81 So12  
*Melittia cucurbitae*.
- 13005 WILLIAMS, C. M., and SANBORN, R. C. The cytochrome system in relation to diapause and development in the cecropia silkworm [*Samia cecropia*]. (Abs.) Biol. B. 95: 282-283. Oct. 1948. 442.8 B52
- 13006 ZISCHKA, R. Catálogo de los insectos de Bolivia. 1-2. Folia Univ. 1(1): 27-38. Dec. 1947. 516 F71  
1. *Rhopalocera*, p. 27-36. 2. *Coleoptera Lamellicornia. Scarabaeoidea*, p. 36-38.
- 13007 ZŁOTORZYCKI, J. Z. *Phragmatobia fuliginosa* L. ab. ochracea nova. (In Polish.) Polskie Pismo Ent. 18(1): 113-115. 1939/1948. 421 P76  
French summary.  
See also Sericulture and the Silkworm.

## ORTHOPTERA

- 13008 ANDER, K. On the correlation between body length and ovipositor length in *Ensifera* (Salt.). Opuscula Ent. 13: 64-68. 1948. 421 Op7  
Study based chiefly on measurements of *Platycleis denticulata* races.
- 13009 BRUIJNING, C. F. A. Studies on Malayan Blattidae. Leiden. Rijksmus. van Natuurlijke Hist. Zool. Meded. 29: 1-174. Ref. 1948. 410.9 L59  
Includes n. spp. in: *Anaplectella*; *Anaplectoidea*; *Scalida*; *Pseudoceratinoptera*; *Squamoptera* n. g.; *Dorylaea*; *Morphna*; *Stictomorphna*; *Pseudophoraspis*; *Rhabdoblatta*; *Eucorydia*; *Neocaeparia*. Also *Molestella* n. g., and *Pseudochorisoblatta* n. g.
- 13010 CARPENTER, F. M. A Permian insect from Texas. Psyche 55: 101-103. June 1948. 421 P95  
*Ideliopsis*, n. g.
- 13011 DAIGLE, J. Sauterelles et criquets. Foyer Rur. [Montreal] 8(1): 11. Oct. 1948. 7 F83
- 13012 GOUSTARD, M. Inhibition de la photonégativité par le dressage, chez *Blattella*. Paris. Acad. des Sci. Compt. Rend. 227: 785-786. Oct. 18, 1948. 505 P21
- 13013 HEAL, R. E., and MENUSAN, H., JR. A technique for the bloodstream injection of insects and its application in tests of certain insecticides. J. Econ. Ent. 41: 535-543. Ref. Aug. 1948. 421 J822  
Tests of sodium arsenate, sodium fluoride, pyrethrins, nicotine, and rotenone on *Periplaneta americana*.
- 13014 KRUSE, C. W. Roach control. Soap & Sanit. Chem. 24(11): 131, 133, 135, 137, 139, 169. Nov. 1948. 307.8 So12
- 13015 LA GRECA, M. Functional morphology of the wing articulations of the Orthoptera. (In Italian.) Arch. Zool. Ital. 32: 271-327. Ref. 1947. 410 Ar22  
French and English summaries.
- 13016 LEPAGE, H. S., GIANNOTTI, O., and ORLANDO, A. Experiments on the chemical control of the South American migratory locust "*Schistocerca gregaria* (Serv.)." (In-Portuguese.) São Paulo. Inst. Biol. Arg. 18: 135-160. Ref. Dec. 1947. 442.9 Sa6  
English summary.
- 13017 MARCHIONATTO, J. B. Constitución del Comité Interamericano Permanente Antiacrídico (C. I. P. A.). Rev. Mens. B. A. P. 31(369): 34-35. Aug. 1948. 9 R326
- 13018 MATTHEY, R. Quelques formules chromosomiales. Sci. Genet. 3(1): 23-32. Ref. Dec. 1, 1947. 442.8 Sci2  
Summaries in Latin, English and German.  
Includes *Ephippigera vitium* Serv. (Orthoptera - Tettigoniidae).
- 13019 MATTHEY, R. Tétrades sans chiasmas dans la spermatogénèse d'*Apteromantis bolivari* Wern. (Orthoptera-Mantides). Rev. Suisse de Zool. 55: 294. July 1948. 410 R324
- 13020 MOROCCO. SERVICE DE LA DÉFENSE DES VÉGÉTAUX. Lutte contre les acridiens. Morocco. Serv. de la Défense des Veg. Mem. 61, 31 p. Mar. 1948. 24 M82M  
Control of *Schistocerca gregaria*.
- 13021 MUMA, M. H. Grasshopper problem. Nebr. State Irrig. Assoc. Proc. 55: 90-93. 1947. 55.9 N27P
- 13022 NAJJAR, H. Controlling the mole cricket [*Gryllotalpa gryllotalpa*]. (In Arabic.) Syria. Ext. Serv. C. 8, 8 p. July 1947. 22.5 Sy8  
English summary.
- 13023 NISWANDER, R. E., and DAVIDSON, R. H. A comparison of the toxicity of some new insecticides to the German roach [*Blattella germanica*]. J. Econ. Ent. 41: 652-653. Aug. 1948. 421 J822  
Sodium fluoride, DDT, benzene hexachloride, chlordane.
- 13024 OWEN, F. E., and BROWN, A. W. A. A hopper and emission apparatus for distribution of grasshopper baits from an airplane. J. Econ. Ent. 41: 656-657. Aug. 1948. 421 J822



- 13025 PFLUGFELDER, O. Die entwicklung embryonaler teile von *Carausius (Dixippus) morosus* in der kopfkapsel von larven und imagines. *Biol. Zentbl.* 66: 372-387. Ref. 1947. 442.8 B523
- 13026 PFLUGFELDER, O. Geschwulstartige wucherungen embryonaler transplantate in *Carausius (Dixippus) morosus*, nach experimenteller störung des hormonhaushaltes. *Biol. Zentbl.* 66: 170-179. Ref. 1947. 442.8 B523
- 13027 PRINCIS, K. Eine neue westafrikanische schabengattung (Blatt.). *Opuscula Ent.* 13: 55-56. 1948. 421 Op7  
Pseudosigmella, with spinosostylata n. sp.
- 13028 ROEDER, K. D., and WEIANT, E. A. The effect of DDT on sensory and motor structures in the cockroach [*Periplaneta americana*] leg. *J. Cell. & Compar. Physiol.* 32: 175-186. Ref. Oct. 1948. 444.8 J822
- 13029 SCHARRER, B. The prothoracic glands of *Leucophaea maderae* (Orthoptera). *Biol. B.* 95: 186-198. Ref. Oct. 1948. 442.8 B52
- 13030 TIRELLI, M. New chemical control methods for grasshoppers. (In Italian.) *Riv. Fitosanit.* 2: 1-4. Feb. 1948. 464.8 R522

## SERICULTURE AND THE SILKWORM

- 13031 FERNÁNDEZ, L. M. La sericicultura, explotación importante. *Chacra* 18(216): 66. Oct. 1948. 9 C34
- 13032 HOLEC, E. Seidenraupenzucht. Aufzuchtstabelle. Grösse der lagerfläche und futtermengen für eine aufzucht von 10.000 raupen. *Österr. Kleintierzüchter* 1948: 393. June 1948. 49 Os7
- 13033 JELMONI, E. Save Italian silk culture. (In Italian.) *Ital. Vinic. ed Agr.* 38: 219-221. Oct. 15, 1948. 95.8 It1
- 13034 MANUNTA, C. Differential behavior in the metabolism of pigments in various races and crosses - recessive white, dominant white, and yellow - of *Bombyx mori*. (In Italian.) *Sci. Genet.* 3(1): 33-42. Dec. 1, 1947. 442.8 Sci2  
Summaries in Latin, English and German.
- 13035 MANUNTA, C. New contribution to the study of the dominant white in the silk worm, (*Bombyx mori*). (In Italian.) *Sci. Genet.* 3(1): 43-47. Dec. 1, 1947. 442.8 Sci2  
Summaries in Latin, English and German.
- 13036 MANUNTA, C. Nitrogen metabolism in various races of silk worm (*Bombyx mori*). 1-2. (In Italian.) *Sci. Genet.* 3(1): 48-66. Ref. Dec. 1, 1947. 442.8 Sci2
1. Alantoic acid in the bivoltine Japanese race, Awojiku.  
2. Allantoic acid and uric acid during the maturation of the blood in various races and crosses.  
Summaries in Latin, English and German.
- 13037 MERENDI, A. Extend silkworm [*Bombyx mori*] culture. (In Italian.) *Gior. di Agr.* 57: 43. Feb. 23, 1947. 16 It1G
- 13038 PIERANTONI, U. The influence of various [colored] lights on the development of *Bombyx mori*. (In Italian.) *Arch. Zool. Ital.* 31: 311-326. Ref. 1943/1946, pub. 1947. 410 Ar22  
French and English summaries.

## SMALLER ORDERS

- 13039 AGRELL, I. A dubious biocoenological method. *Opuscula Ent.* 13: 57-58. 1948. 421 Op7  
Reply to H. Gisin's criticism of the author's ecological study of the Swedish Collembola.
- 13040 AHRENS, C. The caddice-flies [Trichoptera]. *Pa. Angler* 17(10): 21. Oct. 1948. 410 P382
- 13041 ALLMAN, S. L. Skin blemish of nectarines caused by plague thrips [Thrips imaginis]. *Agr. Gaz. N. S. Wales* 59: 423-426. Aug. 1948. 23 N472
- 13042 BANKS, N. A new species of *Corydalus* [C. *ecuadorianus*] (Neuroptera). *Psyche* 55: 82-83. June 1948. 421 P95
- 13043 BANKS, N. Notes on Perlidae. *Psyche* 55: 113-130. Sept. 1948. 421 P95
1. *Perlesta* [with 2 new forms]. 2. *Neophasganophora* and *Harrisioia* [with 4 new spp.]. 3. Some new species [in *Pictetia*, *Atoperla*, *Neoperla*, and *Peltoperla*].
- 13044 BEAUFOY, S., and BEAUFOY, E. M. The early stages of a dragonfly. 1. The emperor—*Anax* imparator Linn. *Nature Lover* 5: 394-398. Sept. 1948. 410 N218
- 13045 BOYCE, A. M. DDT with regular oil sprays for combined control of thrips [*Scirtothrips citri*] and scale. *Exch. Pest Control C.* 165: 645. Sept. 1948. 423.9 C12E
- 13046 CALVERT, P. P. The autobiography of a dragonfly. *Turtox News* 26: 214-217. Sept. 1948. 442.8 T86
- 13047 CHEO, C. C. Notes on fungus-growing termites in Yunnan, China. *Lloydia* 11: 139-147. Ref. June 1948. 442.8 L77
- 13048 COATON, W. G. H. *Cryptotermes brevis*, a new wood-borer problem in South Africa. *Union So. Africa. Dept. Agr. B.* 290, 18 p. 1948. 24 So84P
- 13049 DENNING, D. G. Descriptions of eight new species of Trichoptera. *Brooklyn Ent. Soc. B.* 43: 119-129. Oct. 1948. 420 B79  
In *Neureclipsis*, *Allomyia*, *Chyranda*, *Neophylax*, *Psilotreta*, *Oecetis*, and *Micrasema*.
- 13050 DESNEUX, J. Les nidifications souterraines des Apicotermes, termites de l'Afrique tropicale. *Rev. de Zool. et de Bot. Africaines* 41:1-54. July 3, 1948. 410 R326
- 13051 EDGAR, S. A. Comparative efficacy of several old and new insecticides and methods of application in the control of lice on chickens. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 149-150. 1948. 4 C82
- 13052 EICHLER, W. Mallophagan synopsis XVIII. Genus *Falcophilus*. *Entomologist* 81: 251-253. Nov. 1948. 421 En8
- 13053 EICHLER, W. Über einen seltenen taubenfederling, *Bonomiella concii* nov. spec. *Tierärztl. Umschau* 2: 264-265. Nov. 1947. 41.8 T445
- 13054 EMERSON, K. C. A note on the identity of *Colpocephalum ajajae* Ewing. *Brooklyn Ent. Soc. B.* 43: 130-131. Oct. 1948. 420 B79
- 13055 FIFE, L. C., CHAPMAN, A. J., and SHILLER, I. Toxicity of several chlorinated hydrocarbons to thrips [Thrips tabaci] on cotton. *J. Econ. Ent.* 41: 665. Aug. 1948. 421 J822  
Tests with toxaphene, DDT, benzene hexachloride, and chlordane.
- 13056 GRASSE, P. P., and NOIROT, C. La "climatisation" de la termitière par ses habitants et le transport de l'eau. *Paris. Acad. des Sci. Compt. Rend.* 227: 869-871. Oct. 27, 1948. 505 P21
- 13057 HARARI, A. Skin parasites of sheep and methods of their control. (In Hebrew.) *Hassadeh* 28: 484-486; 534-535. Aug.-Sept. 1948. 26 H27
- 13058 HARROW, K. M. A note on the occurrence of *Coptotermes* nymphs in hardwoods from Australia. *New Zeal. J. Sci. and Technol. B. Gen. Res. Sect.* 29: 223. Jan. 1948. 514 N48B
- 13059 HERIVAUX, A., and TOUMANOFF, C. Étude de la "faune pulicidienne domiciliaire" des rats au cours d'une épidémie de peste à Saïgon; ses conséquences pratiques. *Soc. de Path. Exot. B.* 41: 318-325. 1948. 448.9 So13  
*Xenopsylla cheopis* and *X. astia*.
- 13060 HOPKINS, G. H. E. The identity of *Pulex metallescens* Kolenati 1856. *Entomologist* 81: 249-250. Nov. 1948. 421 En8  
Placed in synonymy with *Archaeopsylla erinacei* erinacei.
- 13061 KLINKOWSKI, M., and EICHLER, W. Starkes auftreten des roten weizenblasenfusses (Haplothrips tritici) in Mitteleuropa und seine beziehung zur spitzentaubheit des weizens. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.)* 2: 43-46. Ref. Mar./Apr. 1948. 464.9 N11
- 13062 LERMA, B. DE. The frontal medial organ of *Ctenolepisma targionii* (Grassi and Rov.): its value as an endocrine organ. (In Italian.) *Arch. Zool. Ital.* 32: 251-269. Ref. 1947. 410 Ar22  
French and English summaries.
- 13063 LIEFTINCK, M. A. A new species of *Anisogomphus* Selys [A. *anderi*], with notes on A. m-flavum (Selys) (Odon.). *Opuscula Ent.* 13: 59-63. 1948. 421 Op7
- 13064 MACNEILL, N. Dragonfly notes from Cos. Meath and Dublin. *Irish Nat. J.* 9: 180. July 1948. 410 Ir42
- 13065 MANONI, R. *Phloeothrips oleae* flourishes in olive plantings of Versilia and Luccesia. (In Italian.) *Agr. Tosc.* 3: 281-284. Sept. 1948. 16 Ag827
- 13066 MARCUS, H. *Estructuras singulares de Dinjapix marcus* (Silv.). *Folia Univ.* 1(1): 66-72. Dec. 1947. 516 F71  
German summary.



13067 PARKS, T. H. Termites are like communists—they stay hidden until the damage is done. *Ohio Farmer* 202(8): 3, 47. Oct. 16, 1948. 6 Oh3

13068 POLLITZER, R. Plague and plague control in China. *Chin. Med. J.* 66: 328-333. June 1948. 448.8 C44

Methods for controlling rats and *Xenopsylla cheopis*.

13069 SCHENCK, P. J. Thrips. (In Flemish.) *Cult. en Handel* 14: 624-626. Oct. 1948. 80 C892

13070 SCHMIDT, E. *Pyrrhosoma elisabethae* n. sp., eine neue Odonatenart aus Griechenland. *Opuscula Ent.* 13: 69-74. Ref. 1948. 421 Op7

13071 SCHULZE, W. Drei todesfälle bei hunden nach anwendung von Antex-läusemittel. Berlin. u. München. *Tierärztl. Wochenschr.* 1947: 135-136. Nov. 1947. 41.8 B45

13072 SMOLIK, R. S. It's time to go after those summer fleas. *All-Pets Mag.* 19(10): 32, 34. Oct. 1948. 48.8 AL5

On dogs.

13073 WATSON, E. B., and THOMPSON, R. W. Termites [*Reticulitermes flavipes*] control in Ontario. Canada. Sci. Serv. Div. Ent. Processed P. 36, 5 p. Feb. 1948. 423.92 C16P

13074 WHITEHOUSE, F. C. Catalogue of the Odonata of Canada, Newfoundland and Alaska. *Roy. Canad. Inst. Trans.* 27(57): 3-53. Oct. 1948. 517 T63T

13075 WYGODZINSKY, P. Redescription of *Nesomachilis maoricus* Tillyard, 1924, with notes on the family Machilidae (Thysanura). *New Zeal. Dominion Mus. Rec. Ent.* 1: 69-78. Ref. June 1948. 421 W46

#### AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

#### GENERAL AND MISCELLANEOUS

13076 BAILLE, J. Les travaux à l'explosif agricole. *Réveil Agr.* 57: 257-258, 274. Sept. 1-15, 1948. 14 R322

13077 BAKER, R. H., and FALCONER, J. I. Accidents that were fatal to Ohio farm people, 1946 and 1947. *Ohio. U. Dept. Rural Econ. Mimeo. B.* 202, 11 p. June 1948. 281.9 Oh32

13078 BEELER, M. N. They got tired of waiting for better roads. *Capper's Farmer* 59(12): 9. Dec. 1948. 6 M693

13079 BELL, R. C. Truck drivers watch road on 80 trips to moon. *News Farmer Coop.* 15(8): 3, 20. Nov. 1948. 166.2 N47

Safety record of drivers of the Washington Co-operative Farmers Association.

13080 BESLEY, H. E. Agricultural engineering in the Northeast. *Agr. Engin.* 29: 493-494. Nov. 1948. 58.8 Ag83

13081 BRIGGS, F. A. Rural roads of economic importance. *Farm & Ranch* 67(11): 39. Nov. 1948. 6 T31 In Texas.

13082 CHEVALLIER, P. L'entretien des chemins vicinaux et les fermiers. *Monit. Agr.* 1(43): 5. Nov. 7, 1948. 14 M744

13083 COVERT, R. N. Lightning protection for [farm] buildings. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 68-69. 1948. 4 C82

13084 COX, L. Research; job for ag. engineers. *Ala. Farmer* 27(2): 9. Nov. 1948. 276.8 AL1

13085 COX, W. T. Co-operative fire fighting on farms. *Cent. Exchange Messenger* 8(3): 9-10, 29. Nov. 1948. 280.28 C33

13086 CYR, F. W. Prevention of farm accidents. *N. J. Dept. Pub. Health News*: 297-299. Oct. 1948. 449.7 N46P

Summary of panel discussion.

13087 ELLIS, H. M., and TETER, N. C. Smoking tobacco barns. *Farm Savety Rev.* 6(6): 4-5. Nov./Dec. 1948. 449.8 F22

Fire hazards and prevention.

13088 FOSS, E. W. Fight the fire on your farm. *Maine. Agr. Col. Ext. C.* 245, 6 p.-folder. Jan. 1948. 275.29 M281C

13089 FOSS, E. W. Tank-type fire truck for your community fire department. *Maine. Agr. Col. Ext. C.* 244, 6 p.-folder. Jan. 1948. 275.29 M281C

13090 FUSTÉ, V. Invitación a la prevención de accidentes en la zona agrícola. *Rev. del Café* 4(4): 5-6. Sept. 1948. 8 R3295

13091 GREENWELL, G. A. Wildlife values of Missouri farm ponds. *North Amer. Wildlife Conf. Trans.* 13: 271-281. 1948. 412.9 N814

13092 HENNING, G. D. Land surveys in Michigan. *Surveying & Mapping* 8: 149-156. July/Sept. 1948. 325.8 Am3

13093 KUGLER, H. L. Skills courses in agricultural engineering offered at the Kansas State College. *Agr. Ed. Mag.* 21: 141. Dec. 1948. 275.8 Ag8

13094 LATCHEM, C. Safety with gas. *Kans. State Bd. Agr. Bien. Rpt.* (1945/46) 35: 99-106. 1948. 2 K13R

13095 MAIN, M. How safe are you? *Amer. Farm Youth* 14(4): 40-41. Sept. 1948. 6 Am393

13096 NATIONAL FIRE WASTE COUNCIL. AGRICULTURAL COMMITTEE. Rural fire prevention and protection through chambers of commerce. Chicago, 1948? 12 p. 296.6 N2142

13097 NEW ZEALAND. DEPT. OF LANDS AND SURVEY. Annual report on surveys, 1947/48. Wellington, 1948. 12 p. 271.2 L23

13098 NORDIN, A. Make working conditions safe. (In Swedish.) *Ladugården* 1948: 6, 8. Jan. 1948. 44.8 L12

13099 PEREZ, J. M. G. La necesidad de equiparar la legislación de accidentes de trabajo en la agricultura a la correspondiente en la industria. *Ager* 4: 108-109. June/July 1948. 33.23 Ag3

13100 PFOST, H. B. Where ag engineers go. *Ala. Farmer* 27(2): 13, 18. Nov. 1948. 276.8 AL1

13101 POTTER, A. A. Contributions of land-grant college engineering experiment stations. (Abs.) *Assoc. Land-Grant Col. and U. Proc.* 61: 122-123. 1947. 4 As7

13102 RYAN, J. M. Farmstead improvement. *Dakota Farmer* 68(22): 14, 16; (23): 8. Nov. 20-Dec. 4, 1948. 6 D14

13103 SETHER, J. W. Better fire protection is up to you; local effort is the sure way to get better equipment, good roads, telephones and increased water supplies. *Country Gent.* 118(12): 27, 99-101. Dec. 1948. 6 C833

13104 SLATER, E. Killing the American farmer—accidents take their toll of farm lives. *Utah Farmer* 68(8): 6, 8. Nov. 25, 1948. 6 D45

13105 TURNER, A. W. Agricultural engineering—its place in the land-grant schools. *Allahabad Farmer* 22: 308-316. Mar. 1948. 22 AL5

Abstract in *Assoc. Land-Grant Col. and U. Proc.* 61: 119-120. 1947. 4 As7

13106 VIRSHOVSKY, A. Some problems of the feeding of fish in ponds. II. (In Hebrew.) *Hassadeh* 28: 538-540. Sept. 1948. 26 H27

13107 WALSTER, H. L. Your stake in accident prevention. *Dakota Farmer* 68(22): 9. Nov. 20, 1948. 6 D14

#### FARM MACHINES AND EQUIPMENT

13108 ADAMS, J. E. Challenges of mechanization to agronomist. *Acco Press* 26(11): 23-24. Nov. 1948. 6 Ac2

13109 ARNOULD, C. Comment le machinisme peut améliorer les méthodes de production de la moyenne et de la petite culture. *Cahiers des Ingén. Agron.* 2(19): 6-8. Jan. 1947. 14 C112

13110 AUSMAN, L. H. Canadian agricultural equipment has limited market in Angola. *Foreign Trade* 4: 888-889. Oct. 30, 1948. 286.8 C162

13111 AZPIAZU. Equipos mecánicos. *Agronomia [Lima]* 12(50): 31-36. Apr./May 1947. 9.8 Ag83

13112 BAN, P. A. VAN DEN. Mechanization in agriculture. (In Dutch.) *Landbouwk. Tijdschr.* 59: 107-115. Mar./May 1947. 105.2 Or3 In Netherlands.

13113 BARATTE. Une évolution dans la fabrication des manches d'outils à main. *Acad. d'Agr. de France. Compt. Rend.* 34: 727-728. June 16/23, 1948. 14 P215Bc

13114 BATEMAN, H. P., and WEBER, J. A. Improved machinery for soybean production. *Ill. Agr. Col. Ext. AG1348*, p. 6-10. Dec. 30, 1947. 275.29 IL62Pag



- 13115 BJARNASON, J. Maintenance of equipment. (Abs.) (In Icelandic.) Freyr 43: 86-90. Mar. 1948. 11 F89
- 13116 BJERNINGER, S. Pipes for our pneumatic conveyor. (In Swedish.) Lantmannen 32: 744-745. Nov. 6, 1948. 11 L234
- 13117 BLASCH, J. Warten oder zugreifen? Landwirtschaft 1948: 225-228. Aug. 21, 1948. 19 L235 Austrian equipment situation.
- 13118 BOUCKAERT, G. Le problème actuel de la mécanisation agricole. Equip. Rur. 1: 4-7. May 1948. 58.8 Eq5 Belgium.
- 13119 BRIGGS, F. A. Steel finger conference. Farm & Ranch 67(12): 16, 17. Dec. 1948. 6 T31 Mechanization of cotton.
- 13120 BROOKS, F. A., KEPNER, R. A., and YERG, D. G. Wind machines in orchards best adapted to combating short, light radiation frosts. Calif. Agr. [Calif. Sta.] 2(12): 5, 12. Dec. 1948. 100 C12Cag Similar title in Citrus Leaves 28(12): 12-13, 28. Dec. 1948. 80 C492
- 13121 CANDURA, G. Mechanization of agriculture in relation to E. R. P. (In Italian.) Cam. di Com. e Agr. di Bari. B. (n. s.) 32(8): 1-2. Aug. 1948. 287 B232
- 13122 CARBIÈRE, R. La mécanisation de l'agriculture dans ses rapports avec le plan de modernisation et d'équipement. Cahiers des Ingén. Agron. 2(21/22): 14-16. Mar./Apr. 1947. 14 C112
- 13123 CHAPPELLE, R. L. Challenges of mechanization to vocational agriculture. Acco Press 26(11): 21-22. Nov. 1948. 6 Ac2
- 13124 CHARTRES, C. B. Machinery on the farm. Field 192: 486-487. Oct. 30, 1948. 10 F45
- 13125 CIOLINA, F. La Station d'Essais du Machinisme Agricole. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 1(2): 3-6. Aug. 1948. 25 M26
- 13126 COLBY, W. G. How much machinery? Labor saved vs dollar cost must determine. North. Farms News 10(10): 3. Nov. 1948. 280.28 N815
- 13127 COOK, G. C. Evaluating outcome of instruction in farm machinery courses for adult farmers. Agr. Ed. Mag. 21: 114. Nov. 1948. 275.8 Ag8
- 13128 CO-OPERATIVE UNION OF QUEENSLAND. The co-operative production and distribution of farm machinery. Brisbane, 1947. 12 p. 280.258 C78
- 13129 COSTA, F. C. Rice problems and the mechanization of labor. (In Portuguese.) Lav. Arroz. 2(21): 3-5. Sept. 1948. 59 L39 Brazil.
- 13130 CUTHBERTSON, J. A. German agricultural machinery. Scot. Farmer 56: 1327. Nov. 6, 1948. 10 Sco8
- 13131 DAVIS, P. O. Challenges of mechanization to extension services. Acco Press 26(11): 19-21. Nov. 1948. 6 Ac2
- 13132 DECKEN, H. V. D. Mechanisierungsprobleme der landwirtschaft. Deut. Inst. f. Wirtschaftsforsch. Vierteljahrshefte 1948(1): 44-65. 1948. 280.9 B452
- 13133 DICKINS, D. The farm home improves its equipment. J. Home Econ. 40: 567-570. Dec. 1948. 321.8 J82
- 13134 DURANTE, D. Why isn't agricultural mechanization expanding? (In Italian.) Macch. e Motori Agr. 6: 265-267. June 1948. 58.8 M13
- 13135 EBERTZ, K. Die landmaschinenchau auf der Frankfurter Ausstellung. Neue Mitt. f. die Landw. 3: 241. Aug. 21, 1948. 18 N39
- 13136 EBERTZ, K. Die landtechnik auf der landwirtschaftlichen ausstellung. Neue Mitt. f. die Landw. 3: 349-351. Oct. 25, 1948. 18 N39
- 13137 EBERTZ, K. Eine neue prüfungsordnung für landmaschinen. Neue Mitt. f. die Landw. 3: 408-410. Nov. 15, 1948. 18 N39
- 13138 ELEFTHERIOU, V. What is the future of farm mechanization in Cyprus? Countryman [Nicosia] 2: 2. Jan. 1948. 23.5 C83
- 13139 EMERSON, H. J. Dressing up for the farmers. Elect. Merchandising 80(11): 50-51, 138. Dec. 1948. 335.8 EL242 Appliance selling.
- 13140 EMINX, N. H. The use of farm machinery in Cyprus. Countryman [Nicosia] 2(4): 6-8. Apr. 1948. 22.5 C83
- 13141 ENGELHARD, J. La mécanisation de la culture betteravière. Rustica 21: 830, 834. Nov. 21, 1948. 14 R92
- 13142 ENGELHARD, J. La motorisation et le verger des petites exploitations. Rustica 21: 753. Oct. 24, 1948. 14 R92
- 13143 ENGELHARD, J. Petite culture et mécanisation. Rustica 20: 35. Jan. 19, 1947. 14 R92
- 13144 ESHUIS, J. J. Use of equipment in English agriculture. (In Dutch.) Landbouwk. Tijdschr. 59: 115-119. Mar./May 1947. 105.2 Or3
- 13145 FAHRINGER, F. Kann sich der bauer nun landmaschinen kaufen? Kärntner Bauer 98: 255-257. Aug. 1, 1948. 19 K14
- 13146 FAIRBANK, J. P. Mechanization problems in the West. Acco Press 26(11): 12-14. Nov. 1948. 6 Ac2
- 13147 FAVRE, R. Le point de vue de l'utilisateur sur le machinisme agricole. Cahiers des Ingén. Agron. 2(21/22): 20-23. Mar./Apr. 1947. 14 C112
- 13148 GOWEN, A. Once over and it's all over. Southwest. Crops & Stock 2(11): 12-13. Nov. 1948. 6 So8942 Chiefly cotton mechanization.
- 13149 GRAVIER, J. F. Pas de motorisation agricole sans carburants nationaux. J. de la France Agr. 4: 913. Sept. 24/30, 1948. 14 J829
- 13150 GUMUNDSSON, P. Once more on farming and equipment. (In Icelandic.) Freyr 43: 70-72. Feb./Mar. 1948. 11 F89
- 13151 GUSSONI, L. Possibilities for agricultural mechanization. II. Machines on the farm. (In Italian.) Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti 3(2): 16-19. Apr./June 1948. 58.9 C33
- 13152 HERAN, J. Le Plan Monnet et l'agriculture: modernisation de l'équipement rural. Paysan du Sud-Ouest 3(118): 4. Mar. 22, 1947. 14 P292
- 13153 HURLBUT, L. W. Taking stock of farm power and machinery research; a symposium. Malayan Agr. J. 31: 183-187. July 1948. 22.5 F312
- 13154 IRIANNI, A. Peripheral friction winches for agricultural work. (In Italian.) Macch. e Motori Agr. 6: 305-309. July 1948. 58.8 M13
- 13155 JACKSON, T. R. Some methods of increasing the mechanization of farms. So. Austral. Dept. Agr. J. 52: 35. Aug. 1948. 23 So84
- 13156 LEWIS, R. D. Challenges of mechanization to experiment stations. Acco Press 26(11): 18-19. Nov. 1948. 6 Ac2
- 13157 LICHTENBERGER. Neue wege der technik. Deut. Landw. Gesell. Arb. (n. s.) 1: 96-106. 1947. 18 D48 Equipment.
- 13158 LONG, W. H. Per man and per acre. Farmers Weekly [London] 29(18): 51. Oct. 29, 1948. 10 F2226 Reply to an article by Allan Fraser on mechanization.
- 13159 LÖNNEMARK, H. Guide for contractors. (In Swedish.) Jordbrukstek. Inst. Meddel. 202, 68 p. Uppsala, 1948. 58.9 J762 English summary.
- 13160 MACHINERY and equipment designs to meet the requirements of the Southeast. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 66-68. 1948. 4 C82
- 13161 MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Let electricity handle your potatoes. Maine. Agr. Col. Ext. C. 240, 6 p.-folder. Sept. 1947. 275.29 M281C
- 13162 MANN, D. Farmers and machines. Kans. State Bd. Agr. Bien. Rpt. (1945/46) 35: 81-99. 1948. 2 K13R
- 13163 MELIN, E., and POTERLOT. Les machines de fenaison. Voix des Colons 30(1459): 1. July 5, 1948. 24 V85
- 13164 MITCHELL, W. K. A study tour of centres of British agriculture with special reference to agricultural mechanization and its application to Jamaican conditions. I. Jamaica. Dept. Agr. B. (n. s.) 36, 20 p. 1948. 8 J227B
- 13165 MOORE, A. J. Hopper loader, -home-made but efficient. U & I Cult. 8(2): 20. Sept. 1948. 66.8 V12 Sugar beet equipment.
- 13166 MUIJZENBERG, E. W. B. VAN DEN. Mechanization in horticulture. (In Dutch.) Landbouwk. Tijdschr. 59: 120-126. Ref. Mar./May 1947. 105.2 Or3
- 13167 NEELY, J. W. Challenges of mechanization to the plant breeder. Acco Press 26(11): 22. Nov. 1948. 6 Ac2



- 13168 NUTT, G. B. Mechanization problems in the Southeast. *Acco Press* 26(11): 10-12. Nov. 1948. 6 Ac2
- 13169 OLIVIER, P. Comment se pose le problème du machinisme agricole en France. *Cahiers des Ingén. Agron.* 2(21/22): 7-10. Mar./Apr. 1947. 14 C112
- 13170 OWREN, B., and HOLMSLETT, J. B. Mechanization in the service of agriculture. III. (In Norwegian.) *Norsk Landbr.* 14: 374-377. Oct. 15, 1948. 11 N8122
- 13171 RAGONDET, G. L. Remembrements par assolement collectif. *Équip. Rur.* 1: 7-10. May 1948. 58.8 Eq5  
Cooperative use of farm equipment in Belgium.
- 13172 RENNEFELD, J. Rabatte im landmaschinenhandel. *Landtechnik* 2(5): 5-6. Feb. 28, 1947. 58.8 L235  
Germany.
- 13173 REVIKIN, I. U. Equipment for practical work in a course on agricultural machines. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok.* 7: 223-229. 1948. 20 M857
- 13174 SCHIFFINGER, R. Seilaufzüge und seilgeräte. *Landwirtschaft* 1948: 226-228. Aug. 21, 1948. 19 L235
- 13175 SCHOPFLOCHER, R. Construcción de un malacate económico. *Chacra* 18(216): 56-57. Oct. 1948. 9 C34
- 13176 SMIT, H. Cooperative use of farm equipment in the Netherlands; (summary of an investigation). (In Dutch.) *Netherlands. Landbouvoorlichtingsdienst. Maandbl.* 5: 363-365. Aug. 1948. 12 N383M
- 13177 SMITH, H. P., and JONES, D. L. Mechanized production of cotton in Texas. *Tex. Agr. Expt. Sta. B.* 704, 62 p. Sept. 1948. 100 T31S
- 13178 STEPHANIDES, C. S. Agricultural machinery in Greece. *Foreign Agr.* 12: 250-253. Nov. 1948. 1 Ec7For
- 13179 THEBIS, R. Ackerkulturgeräte. Berlin, Cronbach, 1947. 198 p. (Angewandte Landmaschinenkunde. Bd. 1) 58 T34
- 13180 THEBIS, R. Grundsätzliches über maschinen in der landwirtschaft. *Kurzbriefe f. Ernähr. u. Landw.* 2: D III 2, 2 p. Feb. 1948. 281.8 K96
- 13181 THEBIS, R. Die landmaschinenindustrie in der Sowjetzone. *Kurzbriefe f. Ernähr. u. Landw.* 9: D III 4, 4 p. Sept. 1948. 281.8 K96
- 13182 TIPTON, B. "Cotton gitters" star performers at mechanization conference. *Acco Press* 26(11): 1-2. Nov. 1948. 6 Ac2  
Beltwide Cotton Mechanization Conference.
- 13183 TOMLINSON, C. Challenges of mechanization to equipment dealers. *Acco Press* 26(11): 14-15. Nov. 1948. 6 Ac2
- 13184 TOMLINSON, C. Cotton mechanization challenges farm equipment dealers. *Farm Equip. Retailing* 6(5): 52, 100-101. Nov. 1948. 58.8 F2292
- 13185 TURBIN, B. G. Sel'skokhoziaitvennyye mashiny i orudiia [Agricultural machines and implements]. Ed. 2, rev. Moskva, Sel'khozgiz, 1948. 223 p. 58 T84
- 13186 VOWLES, H. P. Maquinaria para el agricultor. *Agr. Levantino* 14(166): 9. Sept. 1948. 15 Ag85
- 13187 WARD, W. B. Do barn cleaners pay? *Successful Farming* 46(12): 116, 118-119. Dec. 1948. 6 Su12
- 13188 WHITE, E. D. The economics of cotton mechanization. *Acco Press* 26(11): 3-5. Nov. 1948. 6 Ac2
- 13189 WILKINSON, J. F. Spend it wisely. *Hoard's Dairyman* 93: 873. Nov. 25, 1948. 44.8 H65  
Equipment purchasing.
- 13190 WIRT, F. A. A farmer asks a question about farm machinery prices. *Better Farming Methods* 20(12): 14, 24. Dec. 1948. 58.8 B46
- 13191 ZHUK, I. A. New achievements in Soviet agricultural engineering. (In Russian.) *Sotsialist. Sel'sk. Khoz.* 19(5): 52-54. May 1948. 281.8 So73  
Chiefly on farm machines.
- Animal Husbandry Equipment
- 13192 ALFA-LAVAL COMPANY. Alfa-Laval combine recorder milking system. Brentford, Eng., 1947? 36 p. 44 AL22
- 13193 BARKWORTH, H., and WOOD, R. Sterilising milking machines. *Dairyman* 65: 451, 453. Oct. 1948. 44.8 D1426
- 13194 BORGIOI, E. Notes on mechanical milking. (In Italian.) *Humus* 3(9): 17-20. Sept. 1947. 16 H88
- 13195 BOTSFORD, H. E. No more frozen water fountains. *Successful Farming* 46(12): 70. Dec. 1948. 6 Su12  
Equipment to keep water for poultry from freezing.
- 13196 BRUNETTI, T. Mechanical milking. (In Italian.) *Mondo del Latte* 1948(9): 7-11. Sept. 1948. 44.8 M74  
Summary in French and English.
- 13197 BURT, S. L. Electric litter stirrer. *Elect. on the Farm Mag.* 21(9): 14, 16. Nov. 1948. 335.8 EL27
- 13198 CABEZA, F. W. Cama de volteo desarmable para equinos. *Rev. de Med. Vet. [Buenos Aires]* 30: 11-17. Jan./Mar. 1948. 41.8 B86
- 13199 CHAUMIER, J. Comment diminuer les dimensions d'un collier de cheval. *Rustica* 21: 525. Aug. 1, 1948. 14 R92
- 13200 CSISZÁR, V. Examinations concerning the moistening quickness of milk-spoiling materials; comparative judging of milking-pails. (In Hungarian.) *Tejgazdaság* 6: 169-179. July 1948. 44.8 T233  
English summary.
- 13201 DAHLBERG, A. C. Sanitizing milking machines. *United Farmers of New England. News* 8(6): 13. Dec. 1948. 6 Un35
- 13202 HARDIN, L. S. Crates will save your pigs; Corn Belt farmers who have tried "strait jackets" for sows at farrowing time have cut losses to the vanishing point. *Country Gent.* 118(12): 19, 85, 87, 88. Dec. 1948. 6 C833
- 13203 HINE, G. L. The evolution of bridle bits: simple rawhide thongs of early days have been supplanted by complicated affairs, some of sterling silver. *Horse Lover* 13(3): 15, 62. Oct./Nov. 1948. 428 H7852
- 13204 HOPFAUER, M. Nochmals pflege und reinigung der melkmaschinen. *Saat u. Ernte* 3(8): 7. Aug. 1948. 18 Sa12
- 13205 HOUGAN, M. C. Loads turkeys without bruising. *Wash. Farmer* 73: 841. Nov. 18, 1948. 6 R151  
Equipment.
- 13206 MCMILLIN, M. Milking by assembly-line method. *Dairy World* 27(6): 14-17. Nov. 1948. 44.8 D1423
- 13207 MONTEAUX, A. Pour entretenir convenablement votre écremeuse. *J. de la France Agr.* 4: 947. Oct. 15/22, 1948. 14 J829
- 13208 MORLEY, G. M. Seven cows milked by machine on 15 acres. *Dairy Farmer [Ipswich]* 21(11): 31. Nov. 1948. 44.8 D1414
- 13209 MORRIS, W. H. M. A Danish innovation. *Home Farmer* 15(11): 15. Nov. 1948. 280.344 H75  
Milking equipment.
- 13210 MOYER, D. D. Good laying house equipment reduces labor. *Ohio Agr. Col. Ext. Poultry Pointers* 99, 4 p. June 1948. 275.29 Oh32Pp
- 13211 NISBET, J. C. Thirty years of De Laval milking—and more ton-of-gold cows than any other herd in the world. *De Laval Monthly* 42(5): 4-5, 13. Sept./Oct. 1948. 44.8 D37
- 13212 NORDFELDT, S. Electric warm chamber for newborn suckling pig. (In Swedish.) *Försök och Forskning* 4: 5-7. Jan. 1947. 11 F77
- 13213 PASMA, W. Cooperative mechanical milking. I-II. (In Dutch.) *Alg. Nederlandsche Zuivelbond. Off. Orgaan* 40: 213-214, 223-224. Sept. 22-Oct. 6, 1948. 44.9 AL3
- 13214 REED, E. A. Why milk your goats by hand? Machines will do it better. *Dairy Goat J.* 26(11): 4-5. Nov. 1948. 40.18 M592
- 13215 RHYS, I. W. Fold brooder for 80 chicks. *Poultry Farmer [London]* 119(3099): 10. Nov. 26, 1948. 47.8 F312
- 13216 RITTER, P. Erfahrungen mit melkmaschinen in schweizerischen verhältnissen. *Schweiz. Zentbl. f. Milchwirtschaft* 37: 205-206. Oct. 1, 1948. 44.8 Sch93
- 13217 ROBERTS, W. Test incubators with a candle. *Poultry Farmer [London]* 119(3099): 10-11. Nov. 26, 1948. 47.8 F312
- 13218 SCHALLER, H. L. One version of a mechanized laying house; here is how one farmer mechanized egg gathering, cleaning and feeding. *Poultry Tribune* 54(11): 16, 19. Dec. 1948. 47.8 P8642



- 13219 SCHOFFMANN, L. Wie füttere ich meine kaninchen? Osterr. Kleintierzüchter 1948: 453-454. Oct. 1948. 49 Os7  
Chiefly feeding equipment.
- 13220 SEEGER, K. C. Sources of heat for brooding broilers. Del. Poultry Handb. 32. 1948. 47.9 D37
- 13221 SPRAGUE, D. C., BRESSLER, G. O., and MOWERY, A. S. Automatic poultry feeder saves much time and labor. Sci. Farmer [Pa. Sta.] 1948: 11-12. 100 P383
- 13222 WHITTLESTON, W. G. "Doubling up" the milking machine. New Zeal. J. Agr. 77: 165-166. Aug. 1948. 23 N48J

#### Cultivation and Tillage Equipment

- 13223 BELL, L. J. The tractor industry—275. A contributor discusses a controversial subject from a new angle, and presents an unusual solution. Farm Impl. & Mach. Rev. 74: 729-730. Nov. 1, 1948. 58.8 Im72  
Tractor plowing.
- 13224 BROOKS, R. C. Power pruning in orchards. N. J. State Hort. Soc. Hort. News 29: 2097-2098, 2107. Nov. 1948. 81 N46
- 13225 ENGELHARD, J. Emploi intense des instruments à disques. Rustica 21: 793. Nov. 7, 1948. 14 R92
- 13226 FISCHER-SCHLAMM, E. W. Rauhwalzen und walzeneggen. Saat u. Ernte 3(8): 4-5. Aug. 1948. 18 Sa12
- 13227 GOODALL, G. E. Pneumatic pruners demonstrated on lemon trees. Calif. Citrog. 34: 92. Dec. 1948. 80 C125
- 13228 LAMBERT, C. Démonstration d'appareils pour le traitement des cultures de pommes de terre le vendredi 11 juin 1948. Pomme de Terre Franç. 11(108): 18-27. Aug. 1948. 75.8 P77
- 13229 MANDELLI, M. The differential plow. (In Italian.) Macch. e Motori Agr. 6: 313-328. July 1948. 58.8 M13
- 13230 ORSMOND, F. P. Mechanization at Gwebi: the "Multiple Hitch." Rhodesia Agr. J. 45: 194-195. May/June 1948. 24 R34  
Construction of a corn cultivator.
- 13231 ROBERTSON, P. M., JR. Twenty grand. Ala. Farmer 27(2): 11. Nov. 1948. 276.8 AL1  
Apparatus for testing plows and other tillage equipment.
- 13232 SALOM CALAFELL, J. Del arado romano a la moderna fresadora. Cám. Ofic. Sind. Agr. de Barcelona. B. 3: 219-220. Aug. 1948. 15 C14
- 13233 SERR, E. F., and PARKS, R. R. Pneumatic pruning, orchardists reducing labor costs by using especially designed equipment. Calif. Agr. [Calif. Sta.] 2(11): 11, 16. Nov. 1948. 100 C12Cag
- 13234 SPEAR, G. Hoeing by motor. Poultry Farmer [London] 119(3099): 9. Nov. 26, 1948. 47.8 F312
- 13235 SPITZBARTH, H. Zweckmässige geräte für die bearbeitung des bodens im garten. Osterr. Kleintierzüchter 1948: 477-478. Nov. 1948. 49 Os7

#### Fertilizer and Seed Distributors

- 13236 ERWIN, R. L. Machine plants trees on the contour. Farm and Home Res. [Ohio Sta.] 33: 152-155. Sept./Oct. 1948. 100 Oh3S
- 13237 LARROQUE, R. L'avion pour semer le pin d'Alep. Réveil Agr. 57: 306-307. Oct. 15, 1948. 14 R322
- 13238 VINE, R. Grass seed by air on Marlborough hill country. New Zeal. Farmer 69(16): 3-4. Sept. 20, 1948. 23 N484  
Aerial seed sowing.
- 13239 VINE, R. Seed sowing by aeroplane. New Zeal. Farmer 69(17): 6-8. Oct. 14, 1948. 23 N484

#### Harvesting Equipment

- 13240 ARCHER, R. C. Progress in the mechanical picking of cotton. Acco Press 26(11): 5-7. Nov. 1948. 6 Ac2
- 13241 BAILEY, M. V. Ridding cotton of foliage aids mechanical harvesting. Impl. Rec. 45(9): 41-42. Sept. 1948. 58.8 Im73
- 13242 BLACKWELDER, E. F. Development of the Marbeet sugar beet harvester. Agr. Engin. 29: 481. Nov. 1948. 58.8 Ag83

- 13243 BONIFACIO, F. Étude sur le travail des arracheuses. Pomme de Terre Franç. 11(110): 16-18. Oct. 1948. 75.8 P77

- 13244 BORIN, K. A. Operation of Stalinefs combine on weed infested cereals. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 222-223. 1948. 20 M857
- 13245 CANNON, R. M. Low-down—a competent neutral observer's review of sugar beet harvester Intermountain Area performance affords basic data for dealers. Impl. Rec. 45(9): 21-23. Sept. 1948. 58.8 Im73
- 13246 THE COMING evolution in orchard machinery. Amer. Fruit Grower 68(12): 12-14. Dec. 1948. 80 G85
- 13247 CUBAYNES, G. La démonstration d'arrachage mécanique des pommes de terre à Villelaure (Vaucluse). Réveil Agr. 57: 275. Sept. 15, 1948. 14 R322
- 13248 DAVIES, G. M. Combine harvesting in North Wales. Gt. Brit. Min. Agr. Agriculture 55: 290-292. Oct. 1948. 10 G79J
- 13249 ENGELHARD, J. Les betteraves; arrachage mécanique. Rustica 21: 724. Oct. 10, 1948. 14 R92
- 13250 FAIRBANK, J. P., and PARKS, R. R. Developments in mechanized farming equipment. Calif. Agr. [Calif. Sta.] 2(12): 8-9, 13. Dec. 1948. 100 C12Cag  
Cotton harvester, almond harvester, and prune catcher.
- 13251 FRANKEN, W. C. A. C. The new "Decas" potato digger. (In Dutch.) Boer en Tuinder 2(89): 5. Sept. 18, 1948. 12 B632
- 13252 FRAYSSE, L. Démonstration d'arrachage mécanique de pommes de terre. Terre 204: 1, 3. Sept. 9/15, 1948. 281.8 T27
- 13253 HIPPLE, J. L. The International sugar beet harvester. Agr. Engin. 29: 480. Nov. 1948. 58.8 Ag83
- 13254 LEAR, J. Beet top recovery becomes a major experimental program. Spreckels Sugar Beet B. 12: 34, 40. Sept./Oct. 1948. 66.8 Sp7  
Equipment.
- 13255 MCNEAL, X. Rice losses during combining: a preliminary report. Ark. Agr. Expt. Sta. Rpt. Ser. 10, 8 p.-folder. Aug. 1948. 100 Ar42R
- 13256 MASLOV, N. I. Mechanization of harvesting sugar beet grown for seed. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 209-214. 1948. 20 M857
- 13257 NEIGHBOUR, L. B. Progress in the mechanical stripping of cotton. Acco Press 26(11): 8-10. Nov. 1948. 6 Ac2
- 13258 THE 1947 mechanical harvesting of sugar beets. Agr. Engin. 29: 482-484. Nov. 1948. 58.8 Ag83  
Sugar beet harvesting in California, by A. A. Armer, p. 482. Sugar beet harvesting in the Intermountain Area, by R. M. Cannon, p. 482-484. Sugar beet harvesting in the Eastern Area, by P. A. Reeve, p. 484.
- 13259 TOLMAN, B. Get the most out of your machines this fall. U & I Cult 8(2): 6, 21. Sept. 1948. 66.8 V12  
Sugar beet harvesting.
- 13260 VONIHR, S. Was zeigte uns der neue motor-mäher? Salzburg. Bauer 3(36): 3-5. Sept. 2, 1948. 19 Sa3
- 13261 WILLIAMSON, M. N., and ROGERS, R. H. Economics of cotton harvesting, Texas High Plains, 1947 season. Tex. Agr. Expt. Sta. Prog. Rpt. 1134, 19 p. Oct. 1, 1948. 100 T31P  
Cost and performance of equipment.

#### Land Clearing Equipment

- 13262 FRISENDAHL, R. Tractor culture. (In Swedish.) Västerbotten 1947: 103-105. Dec. 1947. 11 V442  
Land clearing.
- 13263 JACKMAN, E. R. Conquerors of the purple sage. Demand for added grassland is creating new market for clearing and seeding machinery. Impl. Rec. 45(11): 22, 73. Nov. 1948. 58.8 Im73
- 13264 JACKSON, N. A. Clearing the range for beef. Pop. Mechanics Mag. 90(6): 169-172, 238. Dec. 1948. 291.8 P81

#### Processing Equipment Used on the Farm

- 13265 ALLISON, W. R. E. A. hay curing report. San Luis Val. Farmer & Stockman 3(3, i. e., 2): 7, 13. Nov. 1948. 6 Su52  
Stack curing by the San Luis Valley Rural Electric Co-operative.



- 13266 ARNASON, H. Selection of drying equipment. (In Icelandic.) Freyr 43: 99-100. Mar. 1948. 11 F89 Hay.
- 13267 BERTELSEN, B. New flax seed threshing machine. (In Danish.) Lin, Dansk-Svensk Hørtidsskr. 1: 206-209. Nov. 1947. 73.18 L63
- 13268 BRUGGEMANS, M. Considérations sur les séchoirs à grains. Equip. Rur. 1: 40-43. (To be cont.) May 1948. 58.8 Eq5
- 13269 DOMINGO, W. E. Castor seed, an old crop with the new look! What's New in Crops & Soils 1: 10-11. Oct. 1948. 6 W55  
Includes hulling machines and mechanical harvesters.
- 13270 DUFFEE, F. W., and BRUHN, H. D. Mow drying of chopped & long hay. Wis. Agr. Expt. Sta. Stencil B. 5, 15 p. May 1948. 100 W75S
- 13271 DUMONT, R. Aperçus sur la technique de la fenaison en Amérique. Cahiers des Ingén. Agron. 2 (21/22): 17-19. Mar./Apr. 1947. 14 C112
- 13272 DURHAM, K. Mechanical fork feeds cannery pea viners. West. Canner & Packer 40(12): 50. Nov. 1948. 286.83 W522
- 13273 FERGUSON, J. M. Modern haying methods. Kans. State Bd. Agr. Bien. Rpt. (1945/46) 35: 10-22. 1948. 2 K13R
- 13274 FINN-KELCEY, P. Barn hay drying in the British Isles. Gt. Brit. Min. Agr. Agriculture 55: 348-354. Nov. 1948. 10 G79J
- 13275 FLIKKE, A. M. Building a portable home cooler. Minn. Farm & Home Sci. [Minn. Sta.] 6: 12-13. Nov. 1948. 100 M668
- 13276 FULLERTON, W. H. Cotton ginning in Texas. Diesel Prog. 14(12): 42-43. Dec. 1948. 291.8 D56
- 13277 GOETZ, K. Ueber die umbaumöglichkeiten seither bekannter typen von futterschneidemaschinen zu gebälghäckseln. Saat u. Ernte 3(8): 5. Aug. 1948. 18 Sa12
- 13278 HAYDEN, H. The impact of mechanization to the ginner. Acco Press 26(11): 16-17. Nov. 1948. 6 Ac2
- 13279 HESTHAMAR, T. B. Individual community plants for treating straw with lye. (In Norwegian.) Norsk Landbr. 14: 425-428. Nov. 26, 1948. 11 N8122  
Processing straw for feed.
- 13280 HURST, W. M. Modern mills for modern feed. News Farmer Coop. 15(8): 10, 17. Nov. 1948. 166.2 N47  
Types for cooperative groups.
- 13281 LOY, G. VAN. Rapport des essais effectués sur la ramasseuse-presse "New Holland." Equip. Rur. 1: 24-40. May 1948. 58.8 Eq5  
Hay machine.
- 13282 NIKIFOROV, S. I. Experimental equipment for separating clover seed. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 215-222. 1948. 20 M857
- 13283 OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Forced ventilation of partially cured hay in mow or stack by R. C. Miller. Columbus, 1948. 11 p. 275.2 Oh32Fv
- 13284 REA, E. Machinery in fodder conservation. Agr. Prog. 22: 87-91. 1947. 10 Ag86
- 13285 RIST, P. The troublesome drying problem; grain dryer and silos for 4 feet combine. (In Swedish.) Lantmannen 32: 709, 720. Oct. 23, 1948. 11 L234
- 13286 SAINT-QUENTIN, M. La presse-ramasseuse de paille. Rustica 21: 524. Aug. 1, 1948. 14 R92
- 13287 SHEDD, C. K. Mechanical drying of corn on the farm. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Inform Ser. 89, 20 p. Sept. 1948. 1.9 R5311
- 13288 SIGURÐSSON, Ó. The rainy weather and the future. (In Icelandic.) Freyr 43: 74-75. Feb./Mar. 1948. 11 F89  
Chiefly on artificial drying of hay.
- 13289 SIMONSEN, C. U. Artificially dried grass; a point of view from Denmark. Home Farmer 15(10): 23-25. Oct. 1948. 280.344 H75
- 13290 SPENCE, J. Key to high quality hay; barn curing does it. Ala. Farmer 27(2): 7, 16. Nov. 1948. 276.8 AL1
- 13291 TOEPKE, L. The new leaf in hay curing. Ill. Agr. 53(11): 6. Nov. 1948. 6 IL6  
Heat from fuel oil burners to finish curing stacked, partly sun-cured baled hay.
- Repair, Maintenance, and Construction Equipment
- 13292 ALEXANDER, W. G. How welding helps the farmer. Power Farmer (n. s.) 2: 406-407. Nov. 1948. 58.8 P872
- 13293 BERTHAULT, P. L'approvisionnement en pièces de rechange. Rev. Agr. de l'Afrique du Nord 46: 466. Sept. 17, 1948. 80 R326
- 13294 HARDY, E. A., and others. Welders and welding for farm purposes. Saskatchewan U. Col. Agr. Ext. B. 126, 16 p. Nov. 1948. 7 Sa76A  
J. R. Clarke, W. R. Jackson, O. Turnbull, and J. Hogg, joint authors.
- 13295 HOLLENBERG, A. H. Color dynamics in the [farm]shop. Agr. Ed. Mag. 21: 140. Dec. 1948. 275.8 Ag8
- 13296 MCCREIGHT, M. G. Choice of welding electrode important—5 or 6 kinds enough. Nebr. Elect. Farmer 2(11): 14-15. Nov. 1948. 335.8 N27
- 13297 MCCREIGHT, M. G. Safety in arc welding. Nebr. Elect. Farmer 2(10): 12. Oct. 1948. 335.8 N27
- 13298 MORGAN, G. Village blacksmith. Nature Lover 5: 353-355. Aug. 1948. 410 N218
- 13299 PETT, J. Carpentry on the farm: some more important tools. Power Farmer (n. s.) 2: 422. Nov. 1948. 58.8 P872
- 13300 SERS, J. Installez un petit atelier de réparation dans votre ferme. Rustica 21: 763. Oct. 31, 1948. 14 R92
- Spraying and Dusting Equipment
- 13301 CAMPBELL, R. W. Recent developments in spray equipment. Kans. State Hort. Soc. Bien. Rpt. 49: 85-90. 1948. 81 K13
- 13302 ENGELHARD, J. L'électricité dans les traitements anti-parasitaires. Monit. de la Mécan. Rurale 41: 229, 231. Aug. 1948. 58.8 M74  
Electric dusting equipment.
- 13303 JACOBS, A. Les pulverisateurs. Rev. de l'Agr. 1: 589-616. (To be cont.) July/Aug. 1948. 13 R322
- 13304 LATTNER, E. J. What about low gallonage spraying? Impl. Rec. 45(11): 41-42. Nov. 1948. 58.8 Im73  
For weed control.
- 13305 LENNGREN, C. E. A motor driven sprayer. (In Swedish.) Svenska Skogsvårdsför. Tidskr. 46: 29-32. 1948. 99.8 Sk5
- 13306 STEWART, W. S., and GAMMON, C. A backpack fog gun for 2,4-D application. J. Econ. Ent. 41: 658. Aug. 1948. 421 J822
- 13307 SUSHKOV, P. F. Construction quality of OP hand-operated duster. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 214-215. 1948. 20 M857
- 13308 TASCHENBERG, E. F. Hooded booms for grape spraying. N. Y. (State) Agr. Expt. Sta. B. 732, 34 p. Apr. 1948. 100 N48
- 13309 TIRRELL, G. E. The mechanics of mist spraying. II. Trees [Cleveland] 9: 6-7, 26. Nov./Dec. 1948. 99.8 W52
- 13310 WAHLIN, B. New dusting apparatus. (In Swedish.) Trädgårdstidningen 20: 15. Jan. 1, 1948. 80 T67
- 13311 WOOD, H. E. Sprayers come of age; the orchardist is not the only farmer to use sprayers these days. Livestock men and grain growers can all use them to advantage in their business. Family Herald & Weekly Star 79(46): 7. Nov. 17, 1948. 7 F21
- Vehicles
- 13312 ALPE, A. Report on dinamometric tests made on a Fordson tractor equipped with gazogene made by S. A. Soterna. (In Italian.) Macch. e Motori Agr. 6: 241-244. June 1948. 58.8 M13
- 13313 ANIANSSON, G. Couplings for tractors. (In Swedish.) Lantmannen 32: 739-741. Nov. 6, 1948. 11 L234
- 13314 AYRES, V. The causes of engine valve failure. Power Farming Austral. 57(9): 11, 13, 15. (To be cont.) Sept. 1948. 58.8 P87
- 13315 BELLANCOURT, M. Le terrain et la machine. Rev. Agr. de l'Afrique du Nord 46: 459-460. Sept. 10, 1948. 80 R326  
Tractors.



- 13316 COLCLOUGH, P. S. Double-decker trucks for sheep; ingenious plan of Australian railways for saving space. *Farmer's Weekly* [Bloemfontein] 76: 111. Oct. 27, 1948. 24 F225
- 13317 CROW, J. Where should the toolbar be fitted? Here is the case for the mid-mounted or underslung pattern. *Farm Impl. & Mach. Rev.* 74: 728. Nov. 1, 1948. 58.8 Im72
- 13318 DELASNERIE, J. Les transports agricoles. *Monit. Agr.* 1(43): 4. Nov. 7, 1948. 14 M744  
Farm wagons.
- 13319 DINKLA, P. E. Directions for the maintenance of tractors and the Allis Chalmers tractor B especially. (In Dutch.) *Tuinbouw* 3: 242-243. Sept. 1948. 80 T815
- 13320 DRAGON, J. Le gaz de fumier. *Blé et le Vin* 25(1110): 1, 3. Sept. 5/12, 1948. 14 B61
- 13321 DRICOT, E. Essais du tracteur "Claeys" effectués par la Station de Génie rural de l'État, à Gembloux. *Equip. Rur.* 1: 11-24. May 1948. 58.8 Eq5
- 13322 DZHANGIROV, Z. Cost of tractor operations at the machine-tractor stations in Azerbaijan. (In Russian.) *Sotsialist. Sel'sk. Khoz.* 19(5): 54-58. May 1948. 281.8 So73
- 13323 ENGELHARD, J. 20.000 motoculteurs sortiraient, chaque année, d'une seule usine. *Vie Agr.* 3(101): 8. Oct. 23/Nov. 6, 1947. 14 V673
- 13324 FLETCHER, H. B. Aircraft for pest destruction. *Past. Rev.* 58: 740-741. Aug. 16, 1948. 23 Au75
- 13325 GOTZ, W. Die gemeinschaftsform der schlepperverwendung. *Saat u. Ernte* 3(8): 7-8. Aug. 1948. 18 Sa12  
Germany.
- 13326 GRAVIER, J. F. Nos tracteurs marcheront-ils demain à l'alcool? *J. de la France Agr.* 4: 921, 923. Oct. 1/7, 1948. 14 J829
- 13327 GUERIN, G. Le motoculteur apporte une solution pour l'équipement de la petite exploitation. *J. de la France Agr.* 4: 925. Oct. 1/7, 1948. 14 J829
- 13328 HIGGINS, F. H. The airplane in rice culture. (In Italian.) *Macch. e Motori Agr.* 6: 217-222. May 1948. 58.8 M13
- 13329 HOLMSTRÖM, S. More than 7000 new tractors for agriculture in 1947. (In Swedish.) *Lantmannen* 32: 232-233. Apr. 3, 1948. 11 L234
- 13330 IMPLEMENT & TRACTOR. Red tractor book, 33d annual ed., 1948. Kansas City, Mo. 524 p. 58 Im73
- 13331 INSTITUT FÜR LANDTECHNIK DER MAX-PLANK-GESELLSCHAFT. Wie soll der bauernschlepper aussehen? *Saat u. Ernte* 3(8): 2-3. Aug. 1948. 18 Sa12
- 13332 JOHNSON, J. L. The pneumatic tyre on the farm. 3-4. *Brit. Power Farmer* 2: 362-364, 418-420. Oct.-Nov. 1948. 58.8 P872
- 13333 JONES, F. R. The Nebraska tractor tests tell the story. *Farm Family* 5(3): 9. Aug. 1948. 6 F233
- 13334 KRANICK, F. N. G. Why the delay? Tractor design engineer renews suggestion of 22 years ago that direct-engine driven take-off be made standard tractor equipment. *Impl. Rec.* 45(9): 29. Sept. 1948. 58.8 Im73
- 13335 KURATORIUM FÜR TECHNIK IN DER LANDWIRTSCHAFT. Der ackerschlepper und sein gerät; ein-satz, wirkungsweise, bedienung und pflege. Berlin, Zentralverlag, 1947. 192 p. 58 K963
- 13336 LACOMBE, R. Enquête sur le tracteur vigneron. *Prog. Agr. et Vitic.* 1948: 175-180. Oct. 3/10, 1948. 14 P94
- 13337 MCKEAG, J. A. Farming from the sky. *Reclam.* Era 34: 225-228. Dec. 1948. 156.84 R24  
Types of airplanes and their use in farming.
- 13338 NICHOLL, S. A. A strong, simply-constructed wheelbarrow. *New Zeal. J. Agr.* 77: 273-274. Sept. 1948. 23 N48J
- 13339 RENAUX, J. Comment, avec une carcasse d'auto, un artisan rural fabrique un tracteur. *Monit. Agr.* 1(41): 4. Oct. 24, 1948. 14 M744
- 13340 STEFANELLI, G. New directions in hot-head tractors. (In Italian.) *Macch. e Motori Agr.* 6: 245-254. June 1948. 58.8 M13
- 13341 THOMAS, G. De l'essence moins chère pour les travaux agricoles. *Foyer Rur.* 11(49): 1. Oct. 3, 1948. 14 F83
- 13342 VOLLEIDT, N. A. Some elements of freight turn-over in agriculture. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 7: 192-201. 1948. 20 M857  
Formulas on fuel consumption.
- 13343 VOSKUIL, W. H. Multiple fuel needs of the American economy. *Land Econ.* 24: 370-383. Nov. 1948. 282.8 J82

## FARM STRUCTURES AND RURAL HOUSING

- 13344 BOUMA, G. J. A. Farm building. (In Dutch.) *Landbouwk. Tijdschr.* [Wageningen] 60: 449-455. Sept. 1948. 105.2 Or3
- 13345 DURRANCE, C. L., JR. Measurement in rural housing—a progress report. *Ed. & Psychol. Measurement* 8: 661-676. Winter 1948. 280.68 Ed8
- 13346 ENZINGER, H. Praktisches bauen in der landwirtschaft. *Salzburg. Bauer* 3(35): 1-3. Aug. 26, 1948. 19 Sa3
- 13347 EZZEDDIN, A. The problem of housing; town and country planning in Egypt; a proposed plan. *Roy. Egypt. Med. Assoc. J.* 31(7): 606-615. Ref. July 1948. 448.9 Eg93
- 13348 GRAMOLINI, M. Rural buildings in the province of Ascoli Piceno: how they are and how they ought to be. (In Italian.) *Genio Rur.* 11: 235-245. Aug. 1948. 281.8 R522
- 13349 HJELM, L. The farm building cost index 1947. (In Swedish.) *Lantmannen* 32: 215-216. Mar. 27, 1948. 11 L234
- 13350 HJELM, L. New agricultural building in the year 1947. (In Swedish.) *Lantmannen* 32: 271-272. Apr. 17, 1948. 11 L234
- 13351 LUNDIN, Å. The building regulation and rural communities. (In Swedish.) *Lantbrukstidskr. för Dalarna* 1948: 159-164. Oct. 1948. 11 L29
- 13352 MÜLLER, P. Die aufgaben des KTL-ausschusses "Ländliches Bauwesen." *Deut. Bauerntech.* 2(5/6): 13-15. May/June 1948. 58.8 D48
- 13353 PROMERSBERGER, W. J. Ventilation and insulation for farm buildings. *Bimonthly B. [N. Dak. Sta.]* 10(6): 195-199. Oct. 1948. 100 N813B
- 13354 SPIELBERGER, A. Schutz gegen feuchtigkeit an bauwerken. *Kärntner Bauer* 98: 257-259. Aug. 1, 1948. 19 K14
- 13355 URUGUAY. DIRECCIÓN DE AGRONOMÍA. SERVICIO DE COLONIZACIÓN Y CRÉDITO. Desalojos rurales. Uruguay. Dir. de Agron. P. 95, 23 p. Montevideo, 1948. 9.9 Ur84
- 13356 VAN VLACK, C. H. Let's winterize buildings. *Iowa State Col. Ext. Iowa Farm Sci.* 3(5): 6-8. Nov. 1948. 275.28 Io94  
Insulation and ventilation.

## Animal Shelters and Animal Service Buildings

- 13357 ANDERSON, E. E. Reduce poultry house cleaning. *N. Mex. Stockman* 13(11): 79. Nov. 1948. 49 N462
- 13358 ALEXANDROWICZ, S. Experiments on the influence of housing on pigs. (In Polish.) *Rocz. Nauk Rolnicz. i Leśnych* 50: 285-322. Ref. 1948. 20.5 R59  
English summary.
- 13359 ARNOULD, C. Le logement rationnel des lapins. *Acclimatation* 75: 186. Sept. 4, 1948. 14 Ac2
- 13360 BAILEY, J. W. The turning around place. *Hoard's Dairyman* 93: 853, 875. Nov. 25, 1948. 44.8 H65  
Stalls.
- 13361 BALDWINSSON, Þ. Barn. (In Icelandic.) *Freyr* 43: 49-55. Feb./Mar. 1948. 11 F89  
Design and construction.
- 13362 BECKMAN, H. J. Avoid hog losses—protection from weather is needed for young pigs during winter. *West. Livestock J.* 27: 141-143. Nov. 15, 1948. 6 F2278
- 13363 BERNARD, P. Un projet de porcherie sans luxe. *Monit. Agr.* 1(43): 2. Nov. 7, 1948. 14 M744
- 13364 BERR, J. Stallsanierung und stallüberbesserung. *Bavaria. Landesanst. f. Tierzucht in Grub. Mitt.* 1938(3/4): 14-18. 1948. 49 B32  
Ventilation.
- 13365 BONFIELD, J. P. Remodel—if you want model hens. *Business of Farming* 7(7): 12-13. Fall 1948. 6 B96



- 13366 BRUCE, W. H. More on American intensive houses. Poultry Farmer [Sydney] 16(9): 6-7. Aug. 28, 1948. 280.28 Or32
- 13367 BRUCE, W. H. More on American poultry housing. Poultry Farmer [Sydney] 16(11): 6-7. Sept. 11, 1948. 280.28 Or32
- 13368 DOMINY, J. N. Converting old buildings for T. T. milk. Dairy Farmer [Ipswich] 21(9): 12. Sept. 1948. 44.8 D1414
- 13369 FINERON, J. Are your poultry an "official" nuisance. They will be if you use the average droppings board. Poultry Farmer [London] 119(3093): 8-9. Oct. 15, 1948. 47.8 F312
- 13370 HAAG, M. R. Cow parlor—"de luxe." Wyo. Stockman-Farmer 54(12): 6. Dec. 1948. 6 W992
- 13371 HANDLEY, R. C. When farmers build, tell them about the barn that saves labor. Better Farming Methods 20(12): 17, 38. Dec. 1948. 58.8 B46
- 13372 HARTMAN, R. C. 10 x 12 plywood brooder house; through use of aluminum and plywood, strength with light weight is attained. Poultry Tribune 54(11): 11, 31-32. Dec. 1948. 47.8 P8642
- Also in Pacific Poultryman 52(11): 9, 25-27. Dec. 1948. 47.8 P112
- 13373 HODGSON, R. E. Milk parlor and loose feed shed. Hormel Farmer 12: 2, 8. Sept. 15, 1948. 49 H782
- 13374 KAISER, W. G. How to build a dairy barn floor. Dairy Goat J. 26(11): 11. Nov. 1948. 40.18 M592
- 13375 LISTER, J. H. Co-operation in old-fashioned barn-raising now goes back to rafter mill! Penn. Co-op. Rev. 15(12): 22-25. Nov. 1948. 280.28 P38
- 13376 MEHRHOF, N. R. Snug poultry housing advised. Fla. Grower 56(12): 25-26. Dec. 1948. 80 F6622
- 13377 NORDBØ, H. Layout of barn. (In Norwegian.) Norsk Landbr. 14: 71-76. (Cont.) Feb. 20, 1948. 11 N8122
- 13378 REED, C. H. Farm structures designed for the self-feeding of hay and ensilage. Agr. Engin. 29: 488-489. Nov. 1948. 58.8 Ag83
- 13379 RICE, A., JR. Ammo shelter is DPK house. Poultry Farmer [London] 119(3094): 14. Oct. 22, 1948. 47.8 F312
- 13380 ROSENHEIM, H. H. A survey of poultry house lighting. Poultry Digest 7: 659-660. Nov. 1948. 47.8 N219
- 13381 RUDOLPH, W. More milk—less work. Better Farms 8(12): 3. Nov. 15, 1948. 6 B462
- Loafing barn and milking parlor.
- 13382 SCHULZ, A. H. Electric fans do the job of dairy barn ventilation. Dakota Farmer 68(23): 13, 14. Dec. 4, 1948. 6 D14
- 13383 SERS, J. Aménagement original d'une vacherie. Rustica 21: 725. Oct. 10, 1948. 14 R92
- 13384 SPITZBARTH, H. Der kaninchenstall. Österr. Kleintierzüchter 1948: 389-390. June 1948. 49 Os7
- 13385 TEESDALE, L. V., and DUNLAP, M. E. How much insulation do you need? Prairie Farmer, Gen. Ed. 120(23): 10, 11. Nov. 6, 1948. 6 P833
- In dairy barns.
- 13386 VAN DER MERWE, J. A. The evils of overhousing. (In Afrikaans.) S.A.P.A. Poultry B. 11(130): 17, 19. July 1948. 47.8 So89
- 13387 VRIES, G. DE. The open front pen in the Netherlands. (In Flemish.) Pluimvee 1: 37. Dec. 1947. 47.8 P72
- Poultry housing.
- 13388 WEST, H. J. Some factors to be considered when building a laying house. Canada Poultryman 35(10): 6. Oct. 1948. 47.8 C166
- 13389 WILSON, E. Making our own mobile house. Poultry [London] 253. Sept. 28, 1948. 47.8 P869

#### Farmhouses and Farmsteads

- 13390 BURGESS, C. The modern kitchen cupboard. Maine. Agr. Col. Ext. C. 234, 4 p. 1947? 275.29 M281C
- 13391 CARTER, D. G., and HINCHCLIFF, K. Two-story farmhouse. Capper's Farmer 59(12): 14, 40. Dec. 1948. 6 M693
- 13392 COLEMAN, S. D. Long, low and livable farmhouse. Business of Farming 7(7): 6-10. Fall 1948. 6 B96

- 13393 DRAGSBO, G. Housing problems. (In Danish.) Tidsskr. for Husholdning 27: 116-119. Oct. 6, 1948. 321.8 T43
- Remodeling of farm houses.

- 13394 LEFEBURE, C. À propos de la construction des habitations à bon marché. Rustica 21: 686, 691. Sept. 26, 1948. 14 R92

- 13395 LEWEY, R. Arrange for convenience in your new farm home. Ill. Agr. 53(3): 4, 16. Dec. 1948. 6 IL6

#### Greenhouses and Plant Service Buildings

- 13396 BELLINGER, H. Gewächshausheizung ohne bedienung. Gart.-Z. Illus. Flora 71: 145-146. Oct. 1948. 80 G1991

- 13397 BROWN, P. H. Light on lights. 5. Growing the crops in structures. Grower 30: 608-609. Oct. 16, 1948. 286.83 M34

- 13398 BURSTRÖM, H., and GELIN, O. E. V. Experiments with artificial lighting in greenhouses at Weibullsholm. (In Swedish.) Weibulls Allehanda 8(2): 1-5. 1948. 80 W42

- 13399 GRAY, H. E. Greenhouse heating and ventilation. Canad. Florist 43(19): 10-12. Oct. 1, 1948. 80 C163

- 13400 GRÉEN, S. Experiments with miniature greenhouse. (In Swedish.) Trädgårdstidningen 20: 56-57. Feb. 15, 1948. 80 T67
- Cloches.

- 13401 JOHNSON, A. D. Electrical heating for the amateur's greenhouse. Amateur Gard. 65(3359): 19. Sept. 28, 1948. 80 Am13

- 13402 JONES, D., and HARBUD, C. J. Practical soil warming. Elect. Times 114: 506-508. Oct. 28, 1948. 335.8 EL26

#### For greenhouses.

- 13403 MUIJZENBERG, E. W. B. VAN DEN. Heating of greenhouses in Scandinavia. (In Dutch.) Tuinbouw 3: 273-276. Oct. 1948. 80 T815

- 13404 MUYZENBERG, E. W. B. VAN DEN. Greenhouse culture in Switzerland. (In Dutch.) Tuinbouw 3: 77-79. Mar. 1948. 80 T815

- 13405 PROCTER, G. C. What [glasshouse] heating system shall I use? Grower 30: 523. Oct. 2, 1948. 286.83 M34

- 13406 RICHARDSON, C. S. Design for a commercial glasshouse without interior posts. New Zeal. J. Agr. 77: 241-243, 245. Sept. 1948. 23 N48J

- 13407 SABOURIN, L. Cultures en serre. Rustica 21: 821. Nov. 21, 1948. 14 R92

- 13408 SANSOME, F. W. Principles of horticulture. V. North. Gard. 2: 504-505. Sept. 1948. 80 N816
- Heating greenhouses.

- 13409 SHEWELL-COOPER, W. E. Continuous cloches. Field 192: 387. Oct. 2, 1948. 10 F45

- 13410 SMITH, H. E. Unit heaters prove successful in greenhouse heating. Heating & Ventilating 45(11): 57-59. Nov. 1948. 291.8 H35

- 13411 WRIGHT, P. H. Greenhouse vs. hotbed. Your Gard. & Home 2(11): 16. Nov. 1948. 80 Y8

#### Materials and Methods

- 13412 SERS, J. Eléments de construction: moulés d'avance. Rustica 21: 743. Oct. 24, 1948. 14 R92

- 13413 SERS, J. Exécutez en béton vos escaliers, perrons, etc. Rustica 21: 825. Nov. 21, 1948. 14 R92

- 13414 SPITZBARTH, H. Billige und zweckentsprechende baustoffe. Oberösterreich. Landwirtschaftsztg. 20(42): 2. Oct. 13, 1948. 19 Ob23

- 13415 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Vermiculite uses in building and horticulture, by E. English. Slightly rev. Beltsville, Md., 1948. 3 p. Ref. 1.965 A2V59

- 13416 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. DIV. OF FARM BUILDINGS AND RURAL HOUSING. Homemade concrete blocks. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Inform. Ser. 56, rev., 7 p. Oct. 1948. 1.9 R5311

#### Storage Structures

- 13417 ARNOLD, E. H. The construction of a Dutch barn for loose or baled hay. New Zeal. J. Agr. 77: 200-201. Aug. 1948. 23 N48J

- 13418 MCCALMONT, J. R. Silos; types and construction. U. S. D. A. Farmers' B. 1820, rev., 64 p. Sept. 1948. 1 Ag84F



13419 MCCULLOUGH, W. B. Argentina solves its storage problem. *Milling & Feed* 29(11): 20. Nov. 1948. 298.8 C162

Underground silos.

13420 MANNESSIER, J. Le lait manque? Construisons des silos. *Vie Agr.* 3(101): 9. Oct. 23/Nov. 6, 1947. 14 V673

13421 MILLER, I. Silo filling goes electrical as rural power lines take over job. *North Cent. News* 5(12): 4. Oct. 17, 1948. 335.8 N81

13422 SKÖLDENBERG, P. G. Silos, material and construction. (In Swedish.) *Lantmannen* 32: 711-712. Oct. 23, 1948. 11 L234

#### Walls and Fences

13423 CARTER, J. Old rail fences. *Amer. Forests* 54: 546-548, 569-571. Dec. 1948. 99.8 F762

13424 GEUS, J. DE. On electric fences. (In Dutch.) *Netherlands. Landbouwwoorlichtingsdienst. Meded.* 54, 42 p. Ref. 1947. 12 N383

13425 JOHN, R. A. Kale folding with the electric fence. *Gt. Brit. Min. Agr. Agriculture* 55: 283-286. Oct. 1948. 10 G79J

Winter fodder for dairy cattle.

13426 LEFEBURE, C. Construisons nous-mêmes nos poteaux de clôture en ciment armé. *Rustica* 21: 135. Mar. 14, 1948. 14 R92

13427 SNYDER, H. A fence for the future. *Pa. Farmer* 139: 303. Nov. 27, 1948. 6 P383

#### FARM UTILITIES

##### Electricity and Electrification

13428 BARKLEY, P., and SCHOLNIK, E. H. The outlook for 1949. *Co-op Power* 5(12): 6-8. Dec. 1948. 335.8 C78

Rural electrification.

13429 BRITISH ELECTRICAL AND ALLIED INDUSTRIES RESEARCH ASSOCIATION. Research in rural electrification, by E. W. Golding. London, 1947. 19 p. 335 B773

13430 BROWN, K. R. American and European electrical distribution in towns and rural areas. *Line* 1948: 4-7, 23. Nov./Dec. 1948. 335.8 L64

13431 CECCHETTI, F. The electrification of agriculture in the United States. (In Italian.) *Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti* 3(2): 15-16. Apr./June 1948. 48.9 C33

13432 CRAIN, L. S. Wiring inspection makes progress. *Nebr. Elect. Farmer* 2(11): 13. Nov. 1948. 335.8 N27

13433 EDWARDS, J. R. Proper farm wiring. *Ala. Farmer* 27(2): 12, 15. Nov. 1948. 276.8 AL1

13434 FOLCKER, I. Electricity on the farm. (In Swedish.) *Joel* 1948: 35-39. 335.8 J59

13435 GELDER, C. H. Farm power supply—essentially a job for single phase. *Elect. World* 130(21): 100-101. Nov. 20, 1948. 335.8 EL2

13436 HOLMAN, R. L. Blazing the REA trail. *Elect. South* 28(12): 24-25, 79-80. Dec. 1948. 335.8 EL234

13437 KÄLLSTRÖM, V. Production and consumption of electric energy in Sweden year 1947. (In Swedish.) *Sweden. Kommerskol. Kom. Meddel.* 35: 443-447. Sept. 1948. 257.3 K832K

Includes rural consumption.

13438 PUSTOVALOV, I. Electrification of agriculture and overcoming the opposition between city and village. (In Russian.) *Voprosy Ekonom.* 1948(4): 42-54. 1948. 280.8 V89

13439 RESTOFSKI, H. 10-year farm market projection. *Elect. World* 130(21): 128. Nov. 20, 1948. 335.8 EL2

Types of electrical equipment.

13440 RINGWALD, F. Die elektrische stallbeleuchtung und der einfluss auf befruchtung und schlupf. *Ge-flügelhof* 11: 625-626. Oct. 1, 1948. 47.8 G276

13441 TESSMAN, A. Safe use of electricity on farms. *S. C. Dept. Agr. S. C. Mkt. B.* 19: 1. Nov. 11, 1948. 280.39 S08

13442 U. S. RURAL ELECTRIFICATION ADMIN. Suggested capital credits records. Washington, 1948. 4 p. 1.933 Su37

Procedure for Rural Electrification Administration cooperatives.

13443 WICKARD, C. R. Meeting the power needs of rural people. Washington? U. S. Rural Electrification Admin., 1948. 6 p. 1.91 A2W63

Financing generating plants.

#### Heating, Lighting, and Radiation

13444 BENNETT, B. In brooder house—radiant heating cuts loss. *Co-op Chick News* 19(10): 6, 9. Oct. 1948. 47.8 C783

13445 DITCHMAN, J. P. Better light for farm chores. *Elect. Light & Power* 26(11): 76-77. Nov. 1948. 335.8 EL243

13446 SERS, J. Assurez un chauffage sérieux et simple de votre habitation. *Rustica* 21: 785. Nov. 7, 1948. 14 R92

#### Power Plants, Motors and Engines on the Farm

13447 BAINBRIDGE, C. G. Engine care. *Gt. Brit. Min. Agr. Agriculture* 55: 248-251. Sept. 1948. 10 G79J

13448 CORLETT, R. Two-stroke engine development. *Power Farming Austral.* 57(9): 17, 19, 21-23. Sept. 1948. 58.8 P87

13449 GARDINER, J. G. Why I'm a booster for wind power on the farm. *Farm & Ranch Rev.* 44(11): 14. Nov. 1948. 7 F223

13450 LEDL, E. Die explosionsmotore. *Salzburg. Bauer* 3(30): 3, 6. (Cont.) July 22, 1948. 19 Sa3

13451 MILLER, I. Motors and controls take over many hard jobs on modern farm. *North Cent. News* 6(1): 4. Nov. 17, 1948. 335.8 N81

13452 SHANE, P. The rural hydro supervisor. *Elect. News & Engin.* 57(22): 86-87. Nov. 15, 1948. 335.8 EL224  
Canada.

#### Water Supply

13453 ARNOLD, E. Farm water supply of great importance should be carefully protected. *Nebr. Elect. Farmer* 2(11): 15. Nov. 1948. 335.8 N27

13454 ARNOLD, E. Protect water supply from impurities for better rural health. *Okla. Rur. News* 1(10): 7. Oct. 1948. 335.8 Ok4

13455 BJERNINGER, S. Water system development. (In Swedish.) *Lantmannen* 32: 723-725. Oct. 30, 1948. 11 L234

13456 BROOKS, W. W., and PFEIFFER, C. W. Running water; an electric water system will save many steps and much time. *Ky. Farmer* 84(12): 24, 31. Dec. 1948. 6 F2237

13457 CENTRAL VERMONT PUBLIC SERV. CORPORATION. The use of soil heating cable for protection of water systems. *Mass. U. Agr. Ext. Engin. Ext. Ser.* 123, rev., 3 p. Dec. 1947. 275.29 M381En

13458 DEROSE, R. L. Running water on the farm promotes health and comfort. *Nebr. Elect. Farmer* 2(10): 7, 15-16. Oct. 1948. 335.8 N27

13459 HASSENSTEIN, J. Zur wasserversorgung auf dem lande. *Landpost* 4(14): 1-3. July 25, 1948. 18 L2329

13460 KALABUGIN, A. IA. Kak postroit' kolkhoznyy vodoem [How to construct a collective farm reservoir]. Ed. 2. Moskva, Sel'khozgiz, 1948. 55 p. 290 K12

13461 NADAUD, F. L'eau et l'électricité bases du développement de l'agriculture; les besoins de la France. *Monit. Agr.* 1(37): 4. Sept. 26, 1948. 14 M744

13462 PAPE, C. H. Removal of methane from ground water. (In Danish.) *Nord. Mejeri-Tidsskr.* 14: 129-130. 1948. 44.8 N752  
For use in milk plants.

13463 SPOELSTRA, P. A. Removing iron from water. (In Dutch.) *Groenten en Fruit* 3: 393. Jan. 29, 1948. 80 G89

Equipment for purification of water in greenhouses.

#### AGRICULTURAL PRODUCTS: PROCESSING, DISTRIBUTION, AND STATISTICS

##### GENERAL

13464 ARNASON, G. Plant production in Iceland. (In Danish.) *Nord. Jordbrugsforsk.* 1948: 461-465. 11 N752

Hay, potato and grain production.



- 13465 BANDINI, M. The European economy and tropical and sub-tropical agricultural products. (In Italian). Econ. Internaz. 1: 682-693. Aug. 1948. 280.8 Ec728 Summary in English and French.
- 13466 BAY, C. A. Food for thought; hundreds of industries cooperate with the Quartermaster Food and Container Institute to keep Americans the best fed people in the world. Cent. Mfg. Dist. Mag. 32(11): 31-36. Nov. 1948. 297.8 C33
- 13467 BECK, J. R. A look at the record of 25 years of farm planning. II. Oreg. Grange B. 48(12): 10. Nov. 20, 1948. 6 Or3  
Oregon Agricultural Planning Conference recommendations regarding livestock, dairy, and poultry and increased production in these fields.
- 13468 BLACK, J. D. The economics of freedom from want. Chron. Bot. 11: 259-270. Summer 1948. 450 C46
- 13469 BOMBAY (PRESIDENCY) AGRICULTURE AND RURAL DEVELOPMENT DEPT. Growing our food. Bombay, 1948. 30 p. 281.182 B63
- 13470 BOMBAY (PRESIDENCY) PROVINCIAL INDUSTRIES COMMITTEE. FOOD AND FOREST INDUSTRIES SUB-COMMITTEE. Report. Bombay, 1947. 174 p. 309 B6363
- 13471 CAMPBELL, L. E. British Food Manufacturing Industries Research Association. Research 1: 656-658. Nov. 1948. 472 R31
- 13472 CÉPEDE, M. European federalism and hunger problems. Food & Agr. 7: 536-541. Aug./Sept. 1948. 389.8 F7326
- 13473 COOPER, M. R. Research on cotton, tobacco, peanuts, sugar and rice in U. S. D. A. under the Research and Marketing Act, fiscal year 1948. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 14-17. 1948. 4 C82
- 13474 DESVIGNES, J. Aperçu sur la situation alimentaire. Etincelle Agr. 1947(1): 1-2. Oct. 14, 1947. 14 Et4  
France.
- 13475 DE TURK, E. E., ed. Freedom from want: a survey of the possibilities of meeting the world's food needs. A symposium. Chron. Bot. 11: 211-283. Summer 1948. 450 C46  
Foreword by N. E. Dodd.
- 13476 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Seychelles for the year 1947. London, 1948. 31 p. 256.02 C71  
Includes agricultural products.
- 13477 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Zanzibar for the year 1947. London, 1948. 51 p. 256.02 C71  
Includes agricultural products.
- 13478 INTER-AMERICAN DEVELOPMENT COMMISSION. The industries of Venezuela. Washington, 1948. 64 p. 280.16 In81  
Includes agricultural products industries.
- 13479 JOHNSON, A. R. Our world food supply and distribution. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 118-119. 1948. 4 C82
- 13480 KADENSKY, B. The country as a source of food for the inhabitants of towns. (In Czech.) Casopis Českoslov. Vet. 3: 526-529. Sept. 25, 1948. 41.8 C27
- 13481 LAFFER, L. H. Some possible products of the upper Murray Valley. So. Austral. Dept. Agr. J. 52: 32-34. Aug. 1948. 23 So84  
New crops and new uses for established crops.
- 13482 MCCULLOUGH, W. B. Production of field crops and fruit in Argentina, 1947. Overseas Rpt. Agr. Devlpmt. 10, 5 p. July 1948. 281.9 C16420
- 13483 MAREY, G. Grace à nos produits agricoles nos soldats auront d'excellentes rations conditionnées. Monit. Agr. 1(42): 12. Oct. 31, 1948. 14 M744  
France.
- 13484 MARTOUGIN, A. L'organisation professionnelle des industries alimentaires belges. Soc. Belge d'Etudes & d'Expansion. B. Bimest. 47: 498-504. Aug./Oct. 1948. 280.8 So17
- 13485 MISSOURI UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Save feed and food. Columbia, 1948? 6 p.-folder. 275.2 M69Sa
- 13486 NARAYANA, G. V. The present food crisis and its solution—more land for food crops. Madras Agr. J. 35: 220-222. Sept. 1948. 22 M262
- 13487 PATERSON, G. R. The world food situation; a summary of the report of the International Emergency Food Committee for the Council of FAO. Overseas Rpt. Agr. Devlpmt. 2, 8 p. Apr. 1948. 281.9 C16420
- 13488 RAJ, M. K. The present food crisis and its solution. Madras Agr. J. 35: 216-219. Sept. 1948. 22 M262
- 13489 RAMAKRISHNAN, K. C. Grow More Food Campaign—causes of limited success. Madras Agr. J. 35: 223-226. Sept. 1948. 22 M262
- 13490 ROBERTSON, G. S. Agriculture and the world food problem. Farmers' J. 29: 66, 68. Oct. 1948. 10 F2234
- 13491 RUSSELL, SIR E. J. Britain's part in the world food problem. Gt. Brit. Min. Agr. Agriculture 55: 323-329. Nov. 1948. 10 G79J
- 13492 SÄKK, K. The food supply in Great Britain during and after the second World War. (In Swedish.) Sweden. Kommerskol. Jordbruksekonom. Uppgifter 10: 247-253. Sept. 1948. 257.3 J76
- 13493 SALTE - Brazil's 5-year plan. IV. Foodstuffs. Brazil. Business 28(10): 22-25, 27, 29. Oct. 1948. 286.8 B732
- 13494 SHERMAN, H. C. Food products. Ed. 4. New York, Macmillan, 1948. 428 p. 389 Sh5F
- 13495 SHETTY, K. S. The role and responsibility of the Agricultural Department in the solution of the food problem. Madras Agr. J. 35: 227-232. Sept. 1948. 22 M262
- 13496 SOUTH AFRICA. CONTROLLER AND AUDITOR GENERAL. Report on the accounts of the Citrus Board, the Tobacco Industry Control Board, and the Livestock and Meat Industries Control Board for the accounting year 1946-47, with the statement of accounts. Pretoria, 1948. 286.9 So83  
Text in English and Afrikaans.
- 13497 SUPREME COMMANDER FOR THE ALLIED POWERS. Food situation during the second year of occupation. Tokyo? 1947? 77 p. 389.9 Su73  
Japan.
- 13498 TOWNSEND, J. C., JR. Examining crop prospects for Florida farmers. Fla. Grower 56(11): 5, 36. Nov. 1948. 80 F6622  
Fruit and vegetables.
- 13499 U. S. BUR. OF AGRICULTURAL ECONOMICS. 1949 commodity outlook summary. Agr. Situation 32(11): 8-14. Nov. 1948. 1 Ec7Ag
- 13500 WAHLFISK, K. O. Production and consumption of the more important agricultural products during the regulation year 1947/48. (In Swedish.) Sweden. Kommerskol. Jordbruksekonom. Uppgifter 10: 279-288, 304-312. Oct.-Nov. 1948. 257.3 J76
- 13501 WOOLRICH, W. R. General structure of the scientific and industrial research of Great Britain. London, Eng., 1948. 11 p. 330 W88  
Food and forest research included.
- 13502 ZIMMERMANN, W. Reis in der welt ernährungs-bilanz. Agrarpolit. Presse-Korresp. 1(3): 3-4. May 25, 1948. 281.8 Ag892

## ANALYSIS AND COMPOSITION

- 13503 ALLPORT, N. L., and GARRATT, D. C. The estimation of metallic contaminants in foodstuffs. Soc. Chem. Indus. J. 67: 382-387. Ref. Oct. 1948. 382 M31
- 13504 CARTWRIGHT, L. C., and NANZ, R. A. Flavors improved, sales boosted through organoleptic tests. Food Indus. 20: 1608-1611, 1711-1712. Ref. Nov. 1948. 389.8 F737
- 13505 DERBY, J. V., JR., and DEWITT, J. B. Comparison of methods for the determination of carotene. Assoc. Off. Agr. Chem. J. 31: 704-708. Nov. 15, 1948. 381 As7
- 13506 EDSON, F. G., and POE, C. F. Determination of reducing sugars in food products; comparative study of colorimetric methods. Assoc. Off. Agr. Chem. J. 31: 769-776. Ref. Nov. 15, 1948. 381 As7
- 13507 FREUDENBERG, K., PLANKENHORN, E., and KNAUBER, H. Über Schardingers dextrine aus stärke. Justus Liebig's Ann. der Chem. 558(1): 1-10. 1947. 384 An7
- 13508 GROB, E. C. Kritische untersuchung des thiochromtestes und seine brauchbarkeit zur aneurinbestimmung in pflanzlichem material. Internatl. Z. f. Vitaminforsch. 19(1/2): 179-193. 1947. 389.8 Z33  
Summary in French and English.



- 13509 HICKS, E. W. Tasting tests. *Food Preserv. Q.* 8: 1-5. March 1948. 389.9 Au7F
- 13510 HORN, M. J., JONES, D. B., and BLUM, A. E. Microbiological determination of phenylalanine in proteins and foods. *J. Biol. Chem.* 176: 679-684. Ref. Nov. 1948. 381 J824
- 13511 JEANES, A., SCHIELTZ, N. C., and WILHAM, C. A. Molecular association in dextran and in branched amylaceous carbohydrates. *J. Biol. Chem.* 176: 617-627. Ref. Nov. 1948. 381 J824
- 13512 JEANES, A., WILHAM, C. A., and MIERS, J. C. Preparation and characterization of dextran from *leuconostoc mesenteroides*. *J. Biol. Chem.* 176: 603-615. Ref. Nov. 1948. 381 J824
- 13513 JIRGENSONS, B. Denaturation of plant proteins. I. *J. Polymer Sci.* 3: 635-641. Oct. 1948. 381 J829  
Summary in French and German.
- 13514 JONES, F. T., and BICKOFF, E. M. Crystal-line characteristics of four carotene isomers. *Assoc. Off. Agr. Chem. J.* 31: 776-781. Nov. 15, 1948. 381 As7
- 13515 LAHOUSSE, J. Les procédés optiques de dosage des vitamines A et D. III. *Chim. & Indus.* 60: 340-343. Oct. 1948. 383 C42
- 13516 LOY, H. W., JR. Report on riboflavin (fluorometric and microbiological methods). *Assoc. Off. Agr. Chem. J.* 31: 701-703. Nov. 15, 1948. 381 As7
- 13517 MERRILL, D. G. Heating rates of food in glass and other containers. *Indus. & Engin. Chem.* 40: 2263-2269. Ref. Dec. 1948. 381 J825
- 13518 PALOHEIMO, L. Determination of starch according to the principle of iodine colorimetry. *Suomen Maataloustiet. Seura, Maataloustiet. Aikausk.* 20: 109-113. 1948. 20 Su7M
- 13519 PIPER, C. S., and BECKWITH, R. S. A new method for determination of small amounts of molybdenum in plants. *Soc. Chem. Indus. J.* 67: 374-379. Ref. Oct. 1948. 382 M31
- 13520 REITH, J. F., MOSSEL, D. A. A., and VAN DE KAMER, J. H. Determination of the water content of foods. I. Indirect determination of the water content. *Analyt. Chim. Acta* 2: 359-369. Ref. Sept. 1948. 381 An1  
Summary in French and German.
- 13521 WALDRON, D. R., and others. A study of methods for the determination of sugar in crop plants. *Assoc. Off. Agr. Chem. J.* 31: 708-714. Nov. 15, 1948. 381 As7  
C. D. Ball, E. J. Miller, and E. J. Benne, joint authors.
- 13522 WALLIS, T. E., and SANTRA, D. K. The determination of olive stones in powdered vegetable products. *Quart. J. Pharm. & Pharmacol.* 21: 312. July/Sept. 1948. 396.8 Q2
- 13523 WESTERN AUSTRALIA. CHEMICAL LABORATORY. Report for the year 1945. Perth, 1948. 31 p. 385 W523  
Analysis of agricultural products and supplies.

## CONSUMPTION AND UTILIZATION

- 13524 CROCKER, E. C., SJÖSTRÖM, L. B., and TALLMAN, G. B. Measurement of food acceptance. *Indus. & Engin. Chem.* 40: 2254-2257. Dec. 1948. 381 J825
- 13525 MEYERS, T. Objectives of consumer preference research. *New England. Res. Council Mktg. and Food Supply. Proc.* 1948: 68-70. 252.004 N443M
- 13526 MORESCO, E. Aspectos económicos de la quimiurgia. *Bolsa de Cereales, Buenos Aires. Rev.* 35 (1870): 2, 5, 7, 10, 20. (To be cont.) Oct. 28, 1948. 287 B866
- 13527 MORSE, R. L. D. The consumer food acceptance survey. *Food Technol.* 2: 322-329. Oct. 1948. Ref. 389.8 F7398
- 13528 NEBRASKA CHEMURGY PROJECT. Sixth annual report. Lincoln, 1948. 20 p. (Chemurg. Proj. B. 7) 381 N27A
- 13529 NEISWANGER, E. B. Chemurgy leader calls attention to Texas assets. *Tex. Chemurgic News* 4(4): 2. Oct. 1, 1948. 381 T29
- 13530 STINE, O. C. Active BAE projects on consumer preference. *New England. Res. Council Mktg. and Food Supply. Proc.* 1948: 75-78. 252.004 N443M

- 13531 STOUFFER, S. Objectives and methodology in consumer preference research. (Sum.) *New England. Res. Council Mktg. and Food Supply. Proc.* 1948: 85. 252.004 N443M
- 13532 THORNBURY, R. A. New industries in Kentucky. *Ky. Farmer* 84(11): 4, 6. Nov. 1948. 6 F2237  
Use of basic raw materials.
- 13533 TODHUNTER, E. N. Food consumption habits of some urban families of Alabama. *Ala. Acad. Sci. J.* 19: 30-32. Dec. 1947. 500 Al12

## DISTRIBUTION, MARKETING, AND TRANSPORTATION

- 13534 ABRAHAMSEN, M. A. Impediments to effective research under the Research and Marketing Act. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 12-14. 1948. 4 C82
- 13535 ALLGYER, J. R. Marketing Act explained. *Flour & Feed* 49(7): 16-17. Dec. 1948. 298.8 F66
- 13536 BAGGE, F. Farm markets during the third quarter of 1948. (In Swedish.) *Lantmannen* 32: 776-778, 784. Nov. 20, 1948. 11 L234
- 13537 BANK OF NOVA SCOTIA. Markets for farm products. *Bank Nova Scotia. Monthly Rev. (n. s.)* 29, 4 p. Oct. 1948. 280.9 B223
- 13538 BENJAMIN, E. Farm co-ops in big market places. *Coop. Digest* 9(5A): 42-43. Nov. 15, 1948. 280.28 C7896
- 13539 BEVAN, L. A. Opportunities in marketing of title II of the Research & Marketing Act. (Sum.) *New England. Res. Council Mktg. and Food Supply. Proc.* 1948: 56. 252.004 N443M  
Discussion, p. 57-62.
- 13540 BLANCHET, J. Les étalages de la route. *Foyer Rur. [Montreal]* 7(12): 8, 22. Sept. 1948. 7 F83
- 13541 CAMERON, J. L. Stretching the food dollar to buy 60¢ worth of nutrient value. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 112-113. 1948. 4 C82
- 13542 CARRAWAY, B. Farmers market brings Mineola new spirit; businessmen and farmers co-operate in producing and marketing agricultural products. *East Tex. J.* 23(2): 6. Nov. 1948. 6 Ea73
- 13543 CO-OPERATIVE UNION OF QUEENSLAND: Co-operative distribution; a brief review of the activities of co-operative wholesale societies. Brisbane, 1947. 7 p. 280.2 C7872C
- 13544 DENCH, E. A. Making a regional farm market survey. *Natl. Canvas Goods Mfrs. Rev.* 24(8): 30, 32. Nov. 1948. 304.8 N213
- 13545 DENMAN, C. B. Consumer preferences and related factors in food buying. *Farm Mktg. Outlook Conf. Rpt.* 3: 29-32. 1948. 280.39 F223
- 13546 DIEZ, C. Zur strafpraxis gegenüber den bauern. *Landpost* 4(8): 1. Apr. 25, 1948. 18 L2329  
In connection with regulations for compulsory deliveries and production in Germany.
- 13547 FARM MARKETING OUTLOOK CONFERENCE. Report of proceedings and recommendations; 3d, 1948. Cambridge? Mass. Agr. Farm Bd., 1948. 280.39 F223
- 13548 FERRAGUT LEÓN, C. Obra pública apremiante: caminos rurales. *Rev. Nac. de Cien. Polít.-Econ.-Sociales* 7(83): 11. Oct. 1948. 280.8 R3295  
Cuba.
- 13549 GIFFORD, J. L. Displays—their value in selling agricultural products. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 127-129. 1948. 4 C82
- 13550 COLTZ, G. A novel military refrigerated truck. *Refrig. Engin.* 56: 500-502, 548. Dec. 1948. 295.9 Am32J
- 13551 GREAT BRITAIN. TREASURY. National income and expenditure of the United Kingdom 1938 to 1946. London, 1947. 59 p. 284.9 G794N  
Includes consumer expenditures for food.
- 13552 HALL, H. S. Road transport up-to-date. *Food [London]* 17: 328-331. Nov. 1948. 389.8 F738
- 13553 HEINIG, E. Gegenwartsfragen im lebensmittel-einzelhandel. *Kurzbriefe f. Ernähr. u. Landw.* 2: D V 1, 6 p. Feb. 1948. 281.8 K96
- 13554 HOPPER, W. C. Marketing legislation in Australia. *Overseas Rpt. Agr. Devlpmt.* 14, 5 p. Sept. 1948. 281.9 C1642O



- 13555 JOHNSTON, F. S. New problems ahead for grading, packing, labeling. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 131-133. 1948. 4 C82
- 13556 KEENAN, A. F. Long haul refrigerated motor carrier transportation. Quick Frozen Foods 11(4): 70, 72. Nov. 1948. 389.8 Q4
- 13557 LAWLER, F. K. Trends in food distribution. Boston Conf. Distrib. 20: 67. 1948. 286.29 B65
- 13558 LEGG, E. R. Merchandising still a factor in frozen food sales volume. Frosted Food Field 7(5): 2, 16. Oct. 1948. 389.8 F922
- 13559 MANN, L. B. The locker plant—a factor in marketing. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 133-135. 1948. 4 C82
- 13560 MAXTON, J. L. Build farmers' markets on need. News Farmer Coops. 15(9): 10, 20-21. Dec. 1948. 166.2 N47
- 13561 MERENDI, A. Negative results of pooling by quota [Italy]. Gior. di Agr. 57: 25. Feb. 2, 1947. 16 H1G
- 13562 MEYER, E. A. What Congress expects—and what has been accomplished—under the Research and Marketing Act. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 17-19. 1948. 4 C82
- 13563 MILEY, D. G. Marketing research under the Research and Marketing Act. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 19-20. 1948. 4 C82
- 13564 NEW ZEALAND. INTERNAL MARKETING DIVISION. Report and statement of accounts for year ended 30th September, 1947. Wellington, 1948. 36 p. 280.39 N485
- 13565 PENNY, N. M. Research under the Research and Marketing Act of 1946. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 138-139. 1948. 4 C82
- 13566 PERREGAUX, E. A. Research and developments in cooperative marketing. (Sum.) New England. Res. Council Mktg. and Food Supply. Proc. 1948: 33. 252.004 N443M  
Discussion, p. 34-36.
- 13567 PLUMMER, K. V. The "reefer" sits for its picture. West. Grower & Shipper 19(12): 119, 177. Nov. 1948. 280.38 W52  
Refrigerating cars.
- 13568 SALTZSTEIN, R. A. Frozen foods ride the milk routes. Milk Plant Monthly 37(11): 42-44. Nov. 1948. 44.8 C864
- 13569 SASKATCHEWAN. DEPT. OF CO-OPERATION AND CO-OPERATIVE DEVELOPMENT. Co-operative marketing organizations in Saskatchewan 1946-47; supplement to the third annual report of the Department of Co-operation and Co-operative Development. 1948? 7 p. 280.29 Sa74Cma
- 13570 SHEWELL-COOPER, W. E. The market garden. XI. Estate Mag. 48: 388-390. Nov. 1948. 10 Es8  
Marketing the produce.
- 13571 SMITH, K. R. Increasing consumer acceptance of canned foods. South. Canner & Packer 9(11): 15, 22-23. Nov. 10, 1948. 389.8 So82
- 13572 STEWART, J. P. Truck transportation of perishables; a Packer report. I. New York market. Packer 49(2): 1, 13. Dec. 11, 1948. 286.8 N483
- 13573 STOUT, W. B. The State experiment stations and the Research and Marketing Act. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 20-22. 1948. 4 C82
- 13574 STRACHAN, G. Better reefers—better service. West. Grower & Shipper 19(12): 123, 211. Nov. 1948. 280.38 W52  
Refrigerating cars.
- 13575 TEXTE. Commerce et transport des denrées périssables. (Sum.) Cahiers des Ingén. Agron. 2(20): 29-30. Feb. 1947. 14 C112  
Text in French and English.
- 13576 THOMPSON, G. My trip to cooperative Sweden and Great Britain. In Crews, C. R., Ed. Europe's co-ops as we saw them, p. 36-55. Chicago, 1948. 280.2 C86E  
Includes marketing and livestock cooperatives.
- 13577 U. S. PRODUCTION AND MARKETING ADMIN. The function of the Government in marketing, by W. C. Crow. Washington, 1948. 5 p. 1.956 M34C88
- 13578 VAZQUEZ CALCERRADA, P. B. Relaciones de los socios en una cooperativa de venta. Puerto Rico (Rio Piedras). Agr. Expt. Sta. B. 76, 62 p. Mar. 1948. 100 P83
- 13579 VEVERKA, C. L'étude du marché. Coopéra-tion 18: 18-20. Oct. 1948. 280.28 C7845
- 13580 WELLS, O. V. Observations on the outlook for the marketing of farm products. (Sum.) Farm Mktg. Outlook Conf. Rpt. 3: 12-13. 1948. 230.39 F223
- 13581 WHITE, B. S., JR. Putting the Research and Marketing Act to work. New England. Res. Council Mktg. and Food Supply. Proc. 1948: 1-7. 252.004 N443M
- 13582 WILSON, M. L. The extension service and the Research and Marketing Act. (Abs.) Assoc. South. Agr. Worker. Proc. 45: 22-23. 1948. 4 C82
- 13583 WOODIN, M. D. Research under the Research and Marketing Act of 1946. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 24-25. 1948. 4 C82
- 13584 WRIGHT, R. W. Significant trends in food merchandising. Independ. Grocergram 22(8): 16-17, 50, 52. Aug. 1948. 286.28 In2
- 13585 WURZ, K. Warum kontingentierung. Landwirtschaft 1948: 209-212. Aug. 21, 1948. 19 L235  
Compulsory delivery of agricultural products in Austria
- 13586 YOUNG, H. N. Research under the Research and Marketing Act. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 139-140. 1948. 4 C82

#### GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

- 13587 AVENS, A. W. New insecticides and their effect on processed foods. (Abs.) Canner 107(23): 15. Dec. 4, 1948. 286.83 C16
- 13588 BELAM, F. A. The importance of clean food. Med. Off. 80: 176-177. Oct. 16, 1948. 448.8 M462
- 13589 BERRY, J. A. Sanitation in frozen foods. Frozen Food Indus. 4(11): 10, 19. Ref. Nov. 1948. 389.8 F93
- 13590 BUSHOFF. Über vergiftungen durch nitritthal-tige lebensmittel. Tierärztl. Umschau 2: 32-33. Feb. 1947. 41.8 T445
- 13591 KRAMER, A. Measuring harvest qualities. Food Packer 29(13): 55-56, 59-60, 62-63. Ref. Dec. 1948. 286.83 C165
- 13592 MANGAT, S. S. Determination of pressure in sealed cans by the spherometer. Indian J. Agr. Sci. 17: 227-231. Aug. 1947. 22 Ag831
- 13593 MARTIN, C. R. A. Practical food inspection. London, Lewis, 1948. 284 p. (Fish, poultry and other foods, v. 2) 389.4 M36
- 13594 MONIER-WILLIAMS, G. W. Public health aspect of metallic contaminants in food. Soc. Chem. Indus. J. 67: 387-389. Oct. 1948. 382 M31
- 13595 NÉVOT, A., and others. Intoxications alimentaires à Salmonella du groupe E de la classification de Kauffmann. Acad. Vét. de France. B. 21: 292-296. July 1948. 41.9 R24  
C. Méglin, J. Pantaléon, and R. Jacque, joint authors.
- 13596 NOUR EL DINE MOUSTAFA, M., ELYAN, A., and GOHAR, M. A. Bacteriology and incidence of food poisoning in Egypt. Roy. Egypt. Med. Assoc. J. 31(7): 556-566. July 1948. 448.9 Eg93
- 13597 ORTEN, J. M., KUYPER, A. C., and SMITH, A. H. Studies on the toxicity of propyl gallate and of antioxidant mixtures containing propyl gallate. Food Technol. 2: 308-316. Oct. 1948. 389.8 F7398
- 13598 PALMER, E. L. Let's measure things. N. Y. Agr. Col. Ext. Cornell Rural School Leaflet 42(1), 63 p. Sept. 1948. 275.29 N48
- 13599 PEDERSON, C. S. The relation between color and quality of food. (Abs.) Canner 107(23): 36. Dec. 4, 1948. 286.83 C16
- 13600 POTGIETER, M. Consumer preference and quality studies in food and nutrition. New England. Res. Council Mktg. and Food Supply. Proc. 1948: 79-84. 252.004 N443M
- 13601 SHRADER, J. H. A philosophy for sanitarians. J. Milk & Food Technol. 11: 358-364. Nov./Dec. 1948. 44.8 J824
- 13602 STEELE, J. H. The relation of animal and food sanitation to the public health of the community. N. J. Dept. Health. Pub. Health News: 309-312. Oct. 1948. 449.7 N46P
- 13603 STEVENS, H. H., and THOMPSON, J. B. The effect of shortening stability on commercially produced army ration biscuits. II. Development of oxidation during storage. Amer. Oil Chem. Soc. J. 25: 389-394. Nov. 1948. 307 J82



- 13604 THORNTON, H. The present position regarding food inspection in England and Wales. Croydon, Eng., Natl. Vet. Med. Assoc. of Gt. Brit. and Ireland, 1948. 5 p. 389.4 T39

## PACKING AND PACKAGING

- 13605 CARLIN, G. T. Packaging materials which resist rancidity. Food Indus. 20: 1750-1751, 1872, 1874. Dec. 1948. 389.8 F737
- 13606 KEFFORD, J. F. Packaging in glass and tinplate. (Sum.) Austral. Food Manufacture & Distrib. 2(18): 11-12. Sept. 6, 1948. 389.8 Au7
- 13607 SCHWARTZ, T. A. Functional values of unit packages. Pre-Pack-Age 2(3): 18, 32. Nov. 1948. 280.38 P91
- 13608 TANNER, F. W. Paperboard and paper food containers—an analysis of literature and appraisal of their sanitary condition. J. Milk & Food Technol. 11: 334-345. Ref. Nov./Dec. 1948. 44.8 J824

## PRICES, PRICE CONTROL, AND RATIONING

- 13609 ALLEN, R. G. D. A check to the price rise? London & Cambridge. Econ. Serv. B. 26: 126-129. Nov. 18, 1948. 280.8 L84  
Includes food prices.
- 13610 ATCHLEY, F. Who's to blame for high food prices? Ill. Agr. Assoc. Rec. 26(11): 6-7, 34. Nov. 1948. 6 IL62
- 13611 BÄR, A. L. S. Remarks on the future price level of agricultural products. (In Dutch.) Economist [Haarlem] 96: 658-680. Oct. 1948. 280.8 Ec792
- 13612 BAYERISCHER BAUERNVERBAND. Die preisschere in der landwirtschaft. München, Bayerischer Landwirtschaftsverlag, 1948. 35 p. (Landwirtschaftliche Praxis. 4) 284.3 B342
- 13613 BLASCH, J. Warten oder zugreifen? Salzburg. Bauer 3(37): 3-4. Sept. 9, 1948. 19 Sa3  
Prices of agricultural products and equipment.
- 13614 BLONDELLE, R. Il y a des faits nouveaux. Vaucluse Agr. 4(78): 1. Nov. 1, 1948. 14 V26  
Prices.
- 13615 COSGRAVE, L. M. Food prices in Shanghai soar as new economic measures fail. Foreign Trade 4: 1052. Nov. 20, 1948. 286.8 C162
- 13616 DAVENPORT, H. New Congress to jack up floors under farm prices. Barron's 28(49): 11. Dec. 6, 1948. 284.8 B27
- 13617 DRUMMOND, W. M. Objectives and methods of government pricing of farm products. J. Farm Econ. 30: 665-679. Nov. 1948. 280.8 J822
- 13618 ERICSSON, G. How much do the farmers get of the cake? (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 18 (25/26): 5. June 19, 1948. 11 J762  
Farm prices.
- 13619 FEDERAL RESERVE BANK OF NEW YORK. Government support of farm prices. Fed. Reserve Bank New York. Monthly Rev. 30: 103-107. Oct. 1948. 284.8 F31

- 13620 GAUTIER-WALTER, A. Les producteurs agricoles devant le problème des prix et des salaires. Monit. Agr. 1(42): 6. Oct. 31, 1948. 14 M744  
France.

- 13621 GORBITZ, A. Un índice del costo de la alimentación en Lima y Callao. Agronomía [Lima] 12(50): 11-28. Apr./May 1947. 9.8 Ag83

- 13622 HADLEY, N. S. Farmers interested in price supports. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1948: 4-5, 7. Sept. 18, 1948. 275.29 In2

- 13623 KOFFSKY, N. 1949 demand outlook; strong demand expected to hold farm prices near '48 level. Agr. Situation 32(11): 3-4. Nov. 1948. 1 Ec7Ag

- 13624 LEE, I. M. New flexible price support program becomes effective next January 1. Sunsweet Standard 32(6): 6. Nov. 1948. 286.83 Su7

- 13625 MONTGOMERY, J. P. Prices received by Louisiana farmers, 1909-1947. La. Agr. Expt. Sta. B. 429, 71 p. July 1948. 100 L93

- 13626 PARVIN, D. W., and REDMAN, J. C. Farmer's position is less favorable. Miss. Farm Res. [Miss. Sta.] 11(11): 8. Nov. 1948. 100 M69M  
Farm prices.

- 13627 PICKELL, M. W. Crystal ball finale. Breeder's Gaz. 113(12): 14-15. Dec. 1948. 49 B74  
Agricultural prices.

- 13628 RANDALL, C. K. Agricultural Act of 1948 makes important changes in farm prices. Wool Sack 17(5): 8. Nov. 1948. 280.28 W88

- 13629 SANDIFER, T. N. About price controls? nothing is definite now. Live Stock Prod. 27(3): 7. Dec. 1948. 280.38 N21

- 13630 SAVIDGE, E. T. Farm commodity prices and debts. Banking 41(5): 58. Nov. 1948. 284.8 Am3

- 13631 SHEFRIN, F. Agricultural price stabilization in Canada during World War II. n. p., 1947. 222 p. 284.3 Sh3

Thesis (M.S.)—Iowa State College.

- 13632 SIMS, J. W. Farm prices are going down. Ohio Farm Bur. News 28(5): 12. Dec. 1948. 6 Oh34

- 13633 SIMS, J. W. We are telling the farmer's story. Ohio Farm Bur. News 28(4): 10. Nov. 1948. 6 Oh34

Prices of agricultural products.

- 13634 LA TECHNIQUE du rationnement et l'évolution économique. France. Inst. Natl. de la Statist. et des Études Econ. Études et Conjoncture. Econ. Mond. 3 (6/8): 163-193. June/Aug. 1948. 280.9 F842

- 13635 U. S. DEPT. OF AGRICULTURE. The support price program. Washington, 1948. 17 p. 1.90 A2Su72  
Preliminary.

- 13636 WILHELMY, O., JR. Comparative retail prices of canned-fresh-frozen food. West. Canner & Packer 40(12): 46-49. Nov. 1948. 286.83 W522

- 13637 WILLIS, P. S. People need to be told the other side of food prices: some facts the public misses. Fruit & Veg. Rev. 9(7): 18-19, 25. Oct. 1948. 80 C1224

- 13638 ZULUETA, M. M. DE. Números índices de precios agrícolas españoles de los años 1946 y 1947. Spain. Inst. Nac. de Invest. Agron. Cuaderno 101, p. 241-252. June 1948. 105.6 Sp14C

## PROCESSING AND STORAGE

- 13639 ALBERTA. DEPT. OF AGRICULTURE. EXTENSION SERV. Preserve by freezing. Alberta. Dept. Agr. Ext. Serv. B. 72, 15 p. July 1948. 275.29 AL122

- 13640 ATKINSON, N. The microbiology and preservation of food. Refrig. J. 1: 316, 318, 320, 322, 324, 372, 374, 376, 378-379. Jan.-Feb. 1948. 295.8 R255

- 13641 BARTHOLOMEW, J. W. Utility of high frequency heating in the frozen food industry. Quick Frozen Foods 11(4): 59-61. Nov. 1948. 389.8 Q4

- 13642 BELL, R. N. Polarizing microscope—a quality control instrument. Food Indus. 20: 1775-1778. Dec. 1948. 389.8 F737

- 13643 BERTARELLI, E. Italian food problems and industrial production of preserved foods. (In Italian.) Gior. dei Pasticcieri e Confettieri 56: 251-254. Aug. 1948. 389.8 G432

- 13644 CAMERON, E. J. Some newer concepts in quality control. Canner 107(24): 11-12, 14. Dec. 11, 1948. 286.83 C16

- 13645 CARDINELL, H. A. Packaging must have better produce; must have precooling and refrigeration. Pre-Pack-Age 2(2): 5-7. Oct. 1948. 280.38 P91

- 13646 CHANLETT, E. T. The responsibilities of restaurant owners and operators in food-handling training. J. Milk & Food Technol. 11: 365-368. Nov./Dec. 1948. 44.8 J824

- 13647 COLE, W. R., ESSELEN, W. B., JR., and FELLERS, C. R. Home canning; fruits, vegetables, poultry, meat, fish, and special products. Conn. Agr. Col. Ext. Leaflet 406, 40 p. June 1948. 275.29 C76B

- 13648 CONSTABLE, P. C. Quick freezing; survey of methods and applications. Refrig. J. 1: 338, 340, 342, 344, 346-347. Jan. 1948. 295.8 R255

- 13649 CORBAT, A. F. Frigorífico Cooperativo en Sunchales. Rev. SanCor 6(69): 6-7. July 1948. 280.28 R322

- 13650 CUMMING, H. Your National [Canners] Association at work. South. Canner & Packer 9(11): 10-11, 23-26. Nov. 10, 1948. 389.8 So82

- 13651 DUGDALE, H. Cost accounting in the food industry. V. Food Manufacture 23: 475-476. Oct. 1, 1948. 399.8 F736



- 13652 ELVEHJEM, C. A. Observations on the canned foods research program. Natl. Canners Assoc. Inform. Let. 1211: 373-374. Nov. 17, 1948. 389.9 N214In
- 13653 ELVEHJEM, C. A. The role of food technology in modern nutrition. Food Technol. 2: 341-347. Oct. 1948. 389.8 F7398
- 13654 EVERS, C. F. Frozen food industry. Indus. & Engin. Chem. 40: 2251-2253. Dec. 1948. 381 J825
- 13655 FARKAS, L. D., and TRESSLER, D. K. Cooking frozen foods. Hoard's Dairyman 93: 904-905. Dec. 10, 1948. 44.8 H65
- 13656 FOOD STORAGE and fortification studied; a staff report. Chem. & Engin. News 26: 3562. Nov. 29, 1948. 381 J825N
- 13657 GRUETZMACHER, L. C., ONSDORFF, T., and MACK, M. C. Canning for home food preservation. Oreg. State Col. Ext. B. 689, 38 p. July 1948. 275.29 Or32B
- 13658 GUILFOYLE, J. M. Frozen food revival. Frosted Food Field 7(5): 4, 9. Oct. 1948. 389.8 F922
- 13659 HALL, H. H. Food technology and preservation; a selected list of books. U. S. Bur. Agr. and Indus. Chem. CA-1, 2 p. Feb. 1948. 1.932 A2C42
- 13660 HAMMOND, A. E. Quick-freezing at Grimsby. 3. A new Quayside factory. Fruit, Flower & Veg. Trades J. 94: 476. Oct. 9, 1948. 80 F946
- 13661 HAND, D. B. Research on food processing. (Abs.) Canner 107(23): 14. Dec. 4, 1948. 286.83 C16
- 13662 HERRINGTON, B. L. Training in food processing at Cornell for undergraduates. (Abs.) Canner 107(23): 36. Dec. 4, 1948. 286.83 C16
- 13663 HOFFMANN, W. J., JR. Freezer sales, a utility breaks the ice. Elect. Merchandising 80(7): 50, 88, 90. Nov. 1948. 335.8 EL242
- 13664 HUCKER, G. J. Sanitation. (Abs.) Canner 107(23): 16. Dec. 4, 1948. 286.83 C16
- 13665 INTERNATIONAL HARVESTER COMPANY. How to freeze foods; the International Harvester system of food preservation. Chicago, 1947. 62 p. 389.3 In82H
- 13666 JACKSON, J. M., and BENJAMIN, H. A. Sterilization of foods. Indus. & Engin. Chem. 40: 2241-2246. Ref. Dec. 1948. 381 J825
- 13667 JAKOVLIV, G. Preservation of perishable foodstuffs. Food & Agr. 7: 547-556. Aug./Sept. 1948. 389.8 F7326
- 13668 JAUMES, L. Le matériel d'emballage et les coopératives de transformation. Bouches du Rhone Agr. 21(988): 3. Oct. 15, 1948. 14 B662
- 13669 KALISCHER, M. Construction and operation of the home freezer. Refrig. Engin. 56: 405-408. Ref. Nov. 1948. 295.9 Am32J
- 13670 KOVATS, J. Production of citric acid by fermentation process. (In Polish.) Przemysl Chem. 27: 360-363. Ref. June 1948. 385 P952
- English summary.
- 13671 KUJAWSKI, J. S. Canned foods as an offensive and defensive weapon. Natl. Canners Assoc. Inform. Let. 1211: 372-373. Nov. 17, 1948. 389.9 N214In
- 13672 LILIEBLADH, F. Locker plants. (In Swedish.) Svenska Mejeritidningen 40: 413. Oct. 30, 1948. 44.8 Sv2
- In Denmark.
- 13673 LOMBARD, C. Les applications du froid à l'hygiène et à la conservation des denrées alimentaires. Rev. de Méd. Vét. [Toulouse] 99: 382-400. Aug./Sept. 1948. 41.8 R32
- 13674 LUYET, B. J. Ultra rapid cooling preserves life. Refrig. Engin. 56: 497-499. Dec. 1948. 295.9 Am32J
- 13675 LYNCH, C. He educated his community with a frozen food fair. Locker Mangt. 2(12): 20-22. Dec. 1948. 389.8 L79
- 13676 MCCracken. Consider these when buying a home freezer. Nebr. Elect. Farmer 2(10): 5, 15. Oct. 1948. 335.8 N27
- 13677 MCWHORTER, W. Problems that affect processors and distributors. South. Canner & Packer 9(7): 7, 20-21. July 10, 1948. 389.8 So82
- 13678 MARILLER, C. Les progrès récemment réalisés dans la préparation des mouls de matières amy-lacées. Cong. Internatl. des Indus. de Fermentation (1947)1: 309-318. 390.09 C76
- Summary in English and Dutch.
- 13679 MINER, P. Harnessing Jack Frost. Du Pont Mag. 42(6): 24-25. Nov./Dec. 1948. 309.8 D92
- Freon as a refrigerant for frozen foods.
- 13680 NELSON, W. L. Training in food processing for graduate students. (Abs.) Canner 107(23): 36. Dec. 4, 1948. 286.83 C16
- 13681 NEUMANN, R. Das elektro-dörrgerät. Landwirtschaft 1948: 228-229. Aug. 21, 1948. 19 L235
- 13682 NIVEN, C. F., JR. Spoilage avoidance and quality control. Butchers' Advocate 124(20): 8-9. Nov. 17, 1948. 286.85 B97
- 13683 PARKER, M. E. Food-plant sanitation. New York, McGraw-Hill, 1948. 447 p. (McGraw-Hill Ser. in Food Technol.) 449 P22
- 13684 PAVLOVSKI, W. L. Frozen foods have arrived. Frosted Food Field 7(5): 3, 5. Oct. 1948. 389.8 F922
- 13685 PEDERSON, C. S. Investigations in preservation of food by fermentation. (Abs.) Canner 107(23): 14-15. Dec. 4, 1948. 286.83 C16
- 13686 PRATT, R. L. The outlook on the canned goods situation. Calif. Retail Grocers Advocate 53(44): 152-163. Oct. 29, 1948. 286.28 C12
- 13687 REFRIGERATION RESEARCH FOUNDATION, INC. Report of the director 1944-1945-1946-1947. Berkeley, Calif., 1948. 40 p. 295.9 R25Re
- 13688 ROBERTS, H. L. New processing methods in canning. (Sum.) Food Indus. So. Africa 1(5): 42-43. Sept. 1948. 389.8 F7372
- 13689 ROBINSON, W. B. Chemical changes in canned foods during storage. (Abs.) Canner 107(23): 36. Dec. 4, 1948. 286.83 C16
- 13690 SALTON, M. R. J. The use of surface active cations in detergency and sterilization. Food Preserv. Q. 8: 10-15. March 1948. 389.9 Au7F
- 13691 SHERMAN, C. B. Handling refrigerated foods. Better Crops with Plant Food 32(9): 21-22, 43-45. Nov. 1948. 6 B46
- 13692 SLATER, L. W. The role of control instruments in continuous food processing. (Sum.) Food Technol. 2: 359-362. (Cont.) Oct. 1948. 389.8 F7398
- 13693 SOGNEFEST, P., and others. Effect of pH on thermal process requirements of canned foods. Food Res. 13: 400-416. Ref. Sept./Oct. 1948. 389.8 F7322
- G. L. Hays, E. Wheaton, and H. A. Benjamin, joint authors.
- 13694 SOUTHERN EXPERIMENT STATION COLLABORATORS' CONFERENCE. Proceedings. New Orleans? 1948. 67 p. 1.9321 S2P942
- Mechanical handling of cotton; seed storage; peanut drying and storage; protein production and utilization.
- 13695 SPECIAL quick-freezing facilities and their operation. Amer. Warehousemen's Assoc. Proc. 57: 170-180. 1948. 297.9 Am32
- Panel discussion by S. C. Rogers, V. O. Appel, T. E. Evans, and H. Farnsworth.
- 13696 STEEL, L. M. Sharp freezing. Refrig. J. 1: 326, 328, 321. Jan. 1948. 295.8 R255
- 13697 STILLMAN, G., and DENNETT, L. Freezing prepared or precooked foods. Wis. Agr. Col. Ext. Stencil C. 278, 5 p. June 1948. 275.29 W75B
- 13698 TÄUFEL, K. Lagerveränderungen von lebensmitteln. Natur u. Nahr. Ausg. B 2(17/18): 87-88. Sept. 1948. 80 N218B
- 13699 TIRELLI, M. Plant sanitation problems of the European Recovery Program. (In Italian.) Terra e Sole 71/72: 713-714. Oct. 1948. 16 T273
- Need for proper preservation of food products.
- 13700 TRESSLER, D. K. A service that builds more business. Frosted Food Field 7(5): 6-7. Oct. 1948. 389.8 F922
- Food freezing equipment.
- 13701 U. S. WESTERN REGIONAL RESEARCH LABORATORY. Partial list of manufacturers of spray driers. U. S. Bur. Agr. and Indus. Chem. CA-2, 2 p. Apr. 1, 1948. 1.932 A2C42
- 13702 WALTER, L. Automatic control in food processing. I. Food Manufacture 23: 519-521. Nov. 1, 1948. 389.8 F736



- 13703 WARD, G. H. Freezer locker plant economics. *Refrig. Engin.* 56: 410-411, 452, 454. Nov. 1948. 295.9 Am32J
- 13704 WIEGAND, E. H. Efficiency in canning operations. *Canad. Food Indus.* 19(12): 20-21, 23, 25, 27. Dec. 1948. 286.83 C166
- 13705 WILKINS, P. C., and MANN, L. B. Frozen food locker cooperatives in Illinois, 1947. *U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt.* 122, 39 p. Sept. 1948. 166.3 M68
- 13706 WILLIAMSON, L. The bugs in refrigeration and how to cure them. *Canad. Dairy & Ice Cream J.* 27(11): 78, 80-82. Nov. 1948. 44.8 C162
- 13707 WINDHAM, A. B. The distributor and the home freezer. *Elect. Merchandising* 80(7): 40-41, 68. Nov. 1948. 335.8 EL242
- 13708 WOODROOF, J. G., and SHELOR, E. Effect of storage temperature on frozen foods. *Refrig. Engin.* 56: 514-517, 550, 552. Ref. Dec. 1948. 295.9 Am32J
- 13709 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION DIV. Time table for canning at high altitudes, by E. J. Smith. *Laramie*, 1947? 2 p. 275.2 W99Ti
- 13710 ZWEEDE, A. K. Eenige vraagstukken rondom het snelvriezen van tuinbouwproducten [A few problems on the quick freezing of agricultural products]. *Inst. v. Onderzoek op het Gebied van Verwerking van Fruit en Groenten. Overdruk* 6: 135-150. 1947? Ref. 389.9 W12
- 13711 ZWEEDE, A. K. Verwerking van tuinbouwproducten en hun voedingswaarde [The processing of agricultural products and their nutritive value]. *Inst. v. Onderzoek op het Gebied van Verwerking van Fruit en Groenten. Overdruk* 4: 567-586. 1947? 389.9 W12

## STATISTICS

- 13712 BELGIUM. INSTITUT NATIONAL DE STATISTIQUE. *Annuaire statistique de la Belgique et du Congo Belge*, v. 68, 1946. Bruxelles, 1947? 329 p. 258 B41A Includes agricultural statistics.
- 13713 BELGIUM. INSTITUT NATIONAL DE STATISTIQUE. Estimation de la production agricole, rendement des récoltes pour les années culturales 1945-1946, 1946-1947, comparée à la moyenne des années 1941-1942 à 1945-1946. Bruxelles, 1947. 37 p. 258 St22E
- 13714 BELGIUM. INSTITUT NATIONAL DE STATISTIQUE. Résultats du recensement des emblavures d'hiver et du bétail au 1<sup>er</sup> janvier 1948. Bruxelles, 1948. 5 p. 258 St22Re  
Library has also edition in Flemish (258 St22Red).
- 13715 BRAZIL. INSTITUTO BRASILEIRO DE GEOGRAFIA E ESTATISTICA. *Anuário estatístico do Brasil* [Statistical year book of Brazil] 8th, 1947. Rio de Janeiro, 1948. 541 p. 255.3 Ag82Es  
Includes agricultural statistics.
- 13716 COLLINS, H. L. General statistics, 1945-1946. *Kans. State Bd. Agr. Bien. Rpt.* (1945/46) 35: 143-460. 1948. 2 K13R
- 13717 HAMMOND, J. Livestock production and crop yields [in the Union of South Africa]. (In Afrikaans.) *Landbouweekblad* 30(1528): 33-34, 59. Oct. 27, 1948. 24 L232
- 13718 HOLMSTRÖM, S. Our yield and others. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland* 17(45): 5. Nov. 8, 1947. 11 J762
- 13719 INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Indiana crops and livestock. *Purdue U. Agr. Ext. Ind. Crops and Livestock* 277, 4 p. Oct. 1, 1948. 252.28 Ag8  
Statistics.
- 13720 JURÉEN, L. Agricultural production during the year 1948/49. (In Swedish.) *Sweden. Kommerskol. Jordbruksekonom. Uppgifter* 10: 239-246. Sept. 1948. 257.3 J76
- 13721 NETHERLANDS. CENTRAAL BUREAU VOOR DE STATISTIEK. Uitkomsten der inventarisatie van land- en tuinbouw 1948 [Results of the census of agriculture and horticulture 1948]. 2 p. 259 St2Ui
- 13722 NEW SOUTH WALES. STATISTICIAN. Preliminary agricultural statistics, 1947/48. Sydney, 1948. 5 p. 271.1 N47
- 13723 NORWAY. STATISTISK SENTRALBYRÅ. Jordbruksstatistikk (landbruksareal og husdyrhold m. v.); Superficies agricoles et élevage du bétail, récoltes etc., 1947. Oslo, 1948. 64 p. (Norges Offisielle Statistikk X. 161.) 257.2 St2La

- 13724 ONTARIO. DEPT. OF AGRICULTURE. STATISTICS BRANCH. Annual report, 1947. Toronto, 1948. 64 p. 253.6 In2P

- 13725 PATERSON, G. R. Crop prospects in the United States for 1948. *Overseas Rpt. Agr. Devlpmt.* 12, 2 p. Aug. 1948. 281.9 C16420
- 13726 QUEBEC. BUREAU DES STATISTIQUES. Estimation de la valeur brute des productions agricoles, Province de Québec 1940-1947. Québec, 1948. 11 p. 253.8 St2E
- 13727 QUEBEC. BUREAU DES STATISTIQUES. Grandes cultures, 1946. Québec, 1947. p. 23-41. 253.8 StCCr  
Text in French and English.
- 13728 SCRUGGS, F. H. Annual fruit and vegetable report; production, transportation and marketing analysis, 1947-48 season (also poultry, egg, livestock, tobacco and field crop statistics). Jacksonville, Fla. State Mktg. Bur. 1948. 88 p. 280.38 F662A
- 13729 TURKEY. OFFICE CENTRAL DE STATISTIQUE. İstatistik yillığı, Annuaire statistique, v. 16, 1948. n. p., 1948. 605 p. (P. 285.) 269.9 St2  
Includes agricultural statistics.
- 13730 U. S. BUR. OF AGRICULTURAL ECONOMICS. 1949 agricultural outlook charts. Washington, 1948. 1.9 Ec7Agr Ch
- 13731 U. S. DEPT. OF AGRICULTURE. Crops and markets 25: 1-120. Jan. 1948. 1 Ag84Wcm  
Statistics.

## BEVERAGES AND CONDIMENTS

- 13732 ALVAREZ ESTEBAN, J. El chocolate, artículo intervenido en casi todos los países. *Aliment. Nac.* 7(128, i. e. 129): 3, 16. Oct. 10, 1948. 389.8 AL42
- 13733 AMERICAN SPICE TRADE ASSOCIATION. Spice manual and directory, 1947 edition. New York, 1948. 179 p. 68.9 Am3A
- 13734 ANDREEVSKAIA, E. G. Effect of yeasts on wine products for "akratophoric" champagne. *Vinodel. i Vinograd. SSSR.* 8(4): 16-21. Apr. 1948. 95.8 V77
- 13735 ARMSTRONG, K. Wine advancement. *Canad. Food Indus.* 19(12): 14-16. Dec. 1948. 286.83 C166
- 13736 ARROYO, R. Simultaneous production of "light" and "heavy" rums. *Internatl. Sugar J.* 50: 289-291. Nov. 1948. 65.8 In8
- 13737 AVNI, J. The ripening of grapes and its value in the wine industry. (In Hebrew.) *Hassadeh* 28: 469-471. Aug. 1948. 26 H27
- 13738 BAULINO, A. Carbonic acid gas in wine manufacture. (In Italian.) *Ital. Vinic. ed Agr.* 38: 195-196. Sept. 15, 1948. 95.8 It1
- 13739 BLIN, H. Le bouquet des vins. *Monit. Agr.* 1(39): 6. Oct. 10, 1948. 14 M744
- 13740 BOOYSEN, C. R. Age your own wine. (In Afrikaans.) *Primary Prod.* [Cape Town] 23(40): 9. Oct. 8, 1948. 281.8 P93
- 13741 BOZO, P. Eaux-de-vie de cidre et calvados, eaux-de-vie de France. *Journée Vinic. Export* 2(12): 1. Sept. 1948. 390.8 J822  
Text in French and English.
- 13742 BRAAK, H. R. Processing of tea; report on a study trip to Ceylon and Assam, May 25 to June 29, 1948. (In Dutch.) *Bergcultures* 17: 22-27. (To be cont.) Sept. 1, 1948. 22.5 B45
- 13743 BRACONNIER, R. Rapport général sur les mesures prises dans les divers pays, en vue d'améliorer la qualité des vins par le développement de la culture des cépages à bon vin. *Off. Internatl. du Vin. B.* 21(211): 43-46. Sept. 1948. 390.8 B87
- 13744 BRANAS, J. Note sur l'établissement des cartes viticoles. *Off. Internatl. du Vin. B.* 21(211): 8-9. Sept. 1948. 390.8 B87
- 13745 BRAUN, F. Über die prüfung einiger kellerbehandlungsmittel. *Landw. Jahrb. der Schweiz* 62: 491-498. 1948. 17 L23  
French summary.
- 13746 BREIDENBACH, R. W. Vanilla extract processing speeded. *Food Indus.* 20: 1772-1774. Dec. 1948. 389.8 F737
- 13747 BURNS, J. A. Brewing of top fermentation beers. II. Practical aspects of top fermentation. *Brewers Digest* 23(10): 58-60, 64. Oct. 1948. 390.8 B75



- 13748 CABRAL JUNIOR, M. Transport Commission. (In Portuguese.) Soc. Rur. Bras. Rev. 28(336): 40-47. Sept. 1948. 9.2 B733  
Coffee transportation in Brazil.
- 13749 CADDOW. La consommation du vin aux États-Unis en 1947. Off. Internatl. du Vin. B. 21(211): 47-48. Sept. 1948. 390.8 B87
- 13750 CARDOSO, F. M. Planning or plotting? (In Portuguese.) Soc. Rur. Bras. Rev. 28(336): 38-39. Sept. 1948. 9.2 B733  
The Brazilian S. A. L. T. E. Plan in relation to the coffee industry.
- 13751 CARTWRIGHT, L. C., and NANZ, R. A. Comparative evaluation of spices. Food Technol. 2: 330-336. Oct. 1948. 389.8 F7398
- 13752 CERLETTI, G. B. Present biological directions in wine manufacture; the action of bioamycin. (In Italian.) Com. Vinic. 20(34): 1-2. Sept. 4, 1948. 390.8 C732
- 13753 CHABOT, G. Le contrôle moderne de la fabrication des bières. Cong. Internatl. des Indus. de Fermentation (1947)1: 94-109. 390.09 C76
- 13754 CHALENKO, D. K. New races of yeasts for fruit and berry wine production. (In Russian.) Vinodel. i Vinograd. SSSR. 8(4): 8-13. Apr. 1948. 95.8 V77
- 13755 CHAMINADE. La liberté en danger. Monit. Agr. 1(42): 7. Oct. 31, 1948. 14 M744  
Wine market regulation in France.
- 13756 CHAPPAZ, G. Soins aux vins de cette année. Réveil Agr. 57: 323. (To be cont.) Nov. 1, 1948. 14 R322
- 13757 CHAUVEAU, A. Traiter automatiquement sa vendange. Vie Agr. 3(69): 6. Feb. 13/20, 1947. 14 V673
- 13758 CLERCK, J. DE. Influence du potentiel d'oxydo-réduction sur la dissolution du fer dans la bière. Cong. Internatl. des Indus. de Fermentation (1947)1: 186-194. 390.09 C76  
Summary in English and Dutch.
- 13759 CLERCK, J. DE. Tanin-bestimmung in der brauerei. Brauwelt 1947(22): 446-449. Nov. 6, 1947. 390.8 B732
- 13760 DALMASSO, G. Observations complémentaires sur le questionnaire relatif à l'unification des cartes viti-vinicoles [Italy]. Off. Internatl. du Vin. B. 21(211): 10-11. Sept. 1948. 390.8 B87
- 13761 DEUX, Y. Les bières légères: goûts anormaux et infections bactériennes. Cong. Internatl. des Indus. de Fermentation (1947)1: 178-185. 390.09 C76  
Summary in English and Dutch.
- 13762 DEUX, Y. Considérations sur quelques techniques nouvelles en brasserie. Petit J. du Brasseur 56: 851-855. Nov. 12, 1948. 390.8 P44
- 13763 DULAC, J. Le Berry et ses liqueurs. Journée Vinic. Export 22(13): 6. Oct. 1948. 390.8 J82  
Text in French and English.
- 13764 DUMBRA, C. D. Forward American wines, including wine producers formulae. I. Sacramento? Calif., 1948. 518 p. 390.1 D89
- 13765 EPSTEIN, S. S. Quaternaries kill yeasts found in carbonated beverages. Food Indus. 20: 1752-1754, 1874. Ref. Dec. 1948. 389.8 F737
- 13766 ERNST, J. Über die herstellung des ersatzgetränkes aus malz und hopfen. Brauwelt 17: 337-343. Aug. 19, 1948. 390.8 B732
- 13767 EVANS, M. B. More about mead. West. Canada Beekeeper 11(10): 9-10. Oct. 1948. 424.8 W525
- 13768 FABREGUES SOLER, J. M. DE, and MESTRES JANÉ, A. Métodos analíticos para el ácido tártrico de los vinos y residuos de los mismos, y ensayos realizados con un procedimiento conductométrico. Spain. Inst. Nac. de Invest. Agron. Cuaderno 100: 189-239. Ref. June 1948. 105.6 Sp14C  
French, English and German summaries.
- 13769 FERRIS, L. W. Milk fat in milk chocolate. Assoc. Off. Agr. Chem. J. 31: 728-731. Nov. 15, 1948. 381 As7
- 13770 FESSLER, J. H. Filtration of wines. III. Wine Rev. 16(11): 14-15. Nov. 1948. 390.8 W722
- 13771 FEUILLET, M. En Berry. Journée Vinic. Export 22(13): 5. Oct. 1948. 390.8 J82  
Text in French and English.  
The wine industry.
- 13772 FINK, H., and HOCK, A. Über den biologischen wert des eiweisses verschiedener hefen für das wachstum. II. Brauwelt 1948: 78-81. Feb. 19, 1948. 390.8 B732
- 13773 FINK, H. Über morphologische variationen von Torula utilis (Torulopsis utilis). III. Brauwelt 1948: 39-41. Jan. 22, 1948. 390.8 B732
- 13774 FISEISKII, V. N. New construction of "akrapophores." Vinodel. i Vinograd. SSSR. 8(4): 21-23. Apr. 1948. 95.8 V77  
Equipment for champagne manufacture.
- 13775 FORBES, M. The cocoa and sugar markets in retrospect and their outlook. Confectioner 33(7): 11, 36, 38-39. Nov. 1948. 389.8 N81
- 13776 FORMIGONI. Impressions of a visit to the Viticulture and Wine Station at Conegliano. (In Italian.) Campagna 47: 205-206. Aug. 15/Sept. 1, 1948. 16 C152
- 13777 FRANCE. LAWS, STATUTES, ETC. Code du vin: codification entièrement refondue et mise à jour par incorporation des textes les plus récents. Montpellier, Journée Vinicole, 1947. 115 p. 390.1 F843C
- 13778 GARCIA, J. P. Rapport général sur l'unification des méthodes d'établissement des cartes viti-vinicoles. Off. Internatl. du Vin. B. 21(211): 20-28. Sept. 1948. 390.8 B87
- 13779 GARCIA, J. P. L'unification des méthodes d'établissement des cartes viti-vinicoles [Portugal]. Off. Internatl. du Vin. B. 21(211): 11-17. Sept. 1948. 390.8 B87
- 13780 GASTEL, L. A. VAN, and VELDHUIZEN, H. VAN. Filtermass and beerfiltration. Cong. Internatl. des Indus. de Fermentation (1947)1: 145-163. 390.09 C76  
Summary in French and Dutch.
- 13781 GAVREL, R. Eaux-de-vie de cidre et calvados. Journée Vinic. Export 2(12): 3. Sept. 1948. 390.8 J822  
Text in French and English.
- 13782 GEORGACOPOULOS, G. Mesures prises en Grèce en vue de la protection des vins-types. Off. Internatl. du Vin. B. 21(210): 81-86. Aug. 1948. 390.8 B87
- 13783 GERBER, H. Vergleich von cartiergraden mit volumprozenten bei der bestimmung des alkoholgehaltes von brantweinen. Schweiz. Z. f. Obst- u. Weinbau 57: 388. Oct. 23, 1948. 80 Sch9
- 13784 GRIMALDI, L. Calcium in wine is the cause of cloudiness. (In Italian.) Ital. Vinic. ed Agr. 38: 184-185. Aug. 31, 1948. 95.8 It1
- 13785 GUIMARÃES, A. P. The coffee producing industry. (In Portuguese.) Soc. Rur. Bras. Rev. 28 (336): 26-28, 30-32, 34-36. Sept. 1948. 9.2 B733
- 13786 HELM, E. Some considerations on pure yeast in brewing. Cong. Internatl. des Indus. de Fermentation (1947)1: 125-135. 390.09 C76  
Summary in French and Dutch.
- 13787 HUBACH, C. E. Detection of cyanides and ferrocyanides in wines. Anal. Chem. 20: 1115-1116. Nov. 1948. 381 J825A
- 13788 JAJIN, H. A. On food and wine publicity. Wine & Spirit 17(9): 10, 12. Sept. 1948. 390.8 W725
- 13789 JEANSON, P. Pas de vinification rationnelle sans anhydride sulfureux. Monit. Agr. 1(38): 7. Oct. 3, 1948. 14 M744
- 13790 JEANSON, P. Pour une vinification rationnelle une opération délicate: le levurage. Monit. Agr. 1(39): 7. Oct. 10, 1948. 14 M744
- 13791 JEANSON, P. La vinification en blanc. Monit. Agr. 1(42): 7; (43): 8. Oct. 31, Nov. 7, 1948. 14 M744
- 13792 JEANSON, P. La vinification en rouge. Monit. Agr. 1(37): 7. Sept. 26, 1948. 14 M744
- 13793 KOSINSKY. Les vins à appellation d'origine. Off. Internatl. du Vin. B. 21(210): 89-92. Aug. 1948. 390.8 B87
- 13794 KOSSEN, S. Wine wants in; California vintners urge inclusion of product under "fair trade." Spirits 15 (11): 26, 50-51, 55. Nov. 1948. 390.8 Am34
- 13795 KRIMBAS, B. Unification des méthodes d'établissement des cartes viti-vinicoles [Greece]. Off. Internatl. du Vin. B. 21(211): 9-10. Sept. 1948. 390.8 B87



- 13796 KUTTER, F. Problèmes de la brasserie résolus par la pratique. Cong. Internatl. des Indus. de Fermentation (1947)1: 202-215. 390.09 C76  
Summary in English and Dutch.
- 13797 LANEAU, R. Nos brasseries devant les séparateurs & échangeurs. Cong. Internatl. des Indus. de Fermentation (1947)1: 164-177. Ref. 390.09 C76  
Summary in English and Dutch.
- 13798 LE ROY, BARON. Unification des méthodes d'établissement des cartes viti-vinicoles: France. Off. Internatl. du Vin. B. 21(211): 3-8. Sept. 1948. 390.8 B87
- 13799 LÜTHI, H. Die herstellung gesunder obstweine. Grüne 76: 1114-1115. Oct. 15, 1948. 17 Sch9
- 13800 MAMELI, L. Wines that turn black. (In Italian.) Ital. Vinic. ed Agr. 38: 185-186. Aug. 31, 1948. 95.8 It1
- 13801 MARESCALCHI, A. Sodium metabisulfite in wine manufacture. (In Italian.) Sept. 30, 1948. 95.8 It1
- 13802 MAURON, P. Les vins du Cher. Journée Vinic. Export 22(13): 4. Oct. 1948. 390.8 J82  
Text in French and English.
- 13803 MENSIO, C. Citric or tartaric acid? (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 155-156. Sept. 15, 1948. 16 C72  
In wine manufacture.
- 13804 MENSIO, C. Wine manufacture in the Mezzogiorno. (In Italian.) Coltivatore e Gior. Vinic. Ital. 83: 144-146. Aug. 15/31, 1948. 16 C72
- 13805 MESTRE ARTIGAS, C. La desulfitación de mostos en enología. Acad. de Cien. y Artes de Barcelona. Mem. 29: 289-297. 1948. 506 B23M
- 13806 MISIÓN CAFETERA COLOMBIANA. Informe...sobre su visita al Ecuador. Manabí. Consorcio de Cent. Agr. B. 55: 13-22. July/Sept. 1948. 9.5 M31
- 13807 MORICE, P. Calvados: the history of a name; the history of an eau-de-vie. Journée Vinic. Export 2(12): 1. Sept. 1948. 390.8 J822  
Text in French and English.
- 13808 NEKOLA, W. Heating and cooling economics of the beer pasteurizer. Amer. Brewer 81(11): 24-25. 60. Nov. 1948. 390.8 Am3
- 13809 NOROÑA G., G. Varios aspectos del cacao en el Ecuador. Manabí. Consorcio de Cent. Agr. B. 55: 33-42. July/Sept. 1948. 9.5 M31
- 13810 OSTERWALDER, A. Vom mäuselgeschmack der weine, obst- und beerenweine. Schweiz. Z. f. Obst- u. Weinbau 57: 397-399. (To be cont.) Nov. 6, 1948. 80 Sch9
- 13811 PATON, G. G. Cuando volverá el café a los standards de antes de la guerra? Inst. de Defensa del Café de Costa Rica. Rev. 19: 67-69. June 1948. 68.28 C82  
Comment by M. R. Montealegre, p. 69-71.
- 13812 PEYER, E. Herbstversammlung des schweizerischen weinbauvereins zur besprechung der weinpreise vom 1. oktober 1948 in Zürich. Schweiz. Z. f. Obst- u. Weinbau 57: 366-368. Oct. 9, 1948. 80 Sch9
- 13813 PEYRONNET, R. L'Institut du Vin. Rev. Agr. de l'Afrique du Nord 46: 415-416. Aug. 20, 1948. 80 R326
- 13814 PRODUCTION problems of the California wine industry; a panel discussion led by Dr. M. A. Joslyn. Fruit Prod. J. & Amer. Food Mfr. 28: 82-88, 92-93. Nov. 1948. 389.8 F94
- 13815 RABENSEIFNER, K. Gedanken zur weinlese und pressarbeit. Landwirtschaft 1948: 230-231. Aug. 21, 1948. 19 L235
- 13816 RATH. Die behandlung kranker fässer. Gart. Z. illus. Flora 71: 152-153. Oct. 1948. 80 G1991  
Wine containers.
- 13817 REITER, R. Statistik im weinbau. Österr. Weinztg. 3: 317-318. Sept. 25, 1948. 390.8 Os7
- 13818 RIBÉREAU, F. Les prix des vins. Colon. Franç. de Tunisie 58(2065): 1. Sept. 18, 1948. 24 C712
- 13819 ROLEFF, H. Trübungserscheinungen in 1947er weinen. Österr. Weinztg. 3: 357. Oct. 30, 1948. 390.8 Os7
- 13820 ROLET, R. Assurons la santé de nos vins. Terre 207: 1, 3. Sept. 30/Oct. 6, 1948. 281.8 T27
- 13821 RYHLICK, F. Television, a new advertising medium for wine industry. Wine Rev. 16(11): 10-11, 28. Nov. 1948. 390.8 W722
- 13822 SCHWARZ, L. J. Notes on cacao in the Western Hemisphere. Confectioner 33(6): 13, 41. Oct. 1948. 389.8 N81
- 13823 SERLIS, H. G. Wine industry looks ahead. Wine Rev. 16(11): 13, 20, 29. Nov. 1948. 390.8 W722
- 13824 SHUMAKOV, A. M. Role of yeasts in the manufacture of sherry wines. (In Russian.) Vinodel. i Vinograd. SSSR. 8(4): 6-7. Apr. 1948. 95.8 V77
- 13825 SJOSTROM, L. B., and CROCKER, E. C. The role of monosodium glutamate in the seasoning of certain vegetables. Food Technol. 2: 317-321. Oct. 1948. 389.8 F7398
- 13826 STEVENSON, R. A. H. Tea industry in north India. Planters' Chron. 43: 411-415. Sept. 1, 1948. 22 P693
- 13827 TESTA, E. Coffee and the Marshall Plan. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 23: 83-85. Feb. 1948. 68.29 Sa63
- 13828 THIEL, F. Geschichte des weinhandels im bezirk Mistelbach. Österr. Weinztg. 3: 319-320. Sept. 25, 1948. 390.8 Os7
- 13829 VAGLIASINDI, G. Marsala wine and its history. (In Italian.) Ital. Agr. 85: 589-596. Oct. 1948. 16 It1
- 13830 VERGLAS, R. Bourges et le Cher viticole. Journée Vinic. Export 22(13): 5. Oct. 1948. 390.8 J82  
Text in French and English.
- 13831 VINCENZONI, W. Good preservation of wine. (In Italian.) Gaz. Agr. [Padova] 26(1/2): 2. Jan. 17, 1947. 16 G254
- 13832 VINITSKII, G. P., and BARABANSCHCHIKOV, S. M. Soviet vermouth. (In Russian.) Vinodel. i Vinograd. SSSR. 8(4): 14-15. Apr. 1948. 95.8 V77
- 13833 VOGT, E. Der grosse jahrgang 1947. Landpost 4(12): 1-3. June 25, 1948. 18 L2329  
The Germany wine industry.
- 13834 WINDISCH, S. Wissenschaftliche station für brauerei in München; ueber Torulopsis utilis und die pseudomyzelfrage. Brauwelt 1947(23): 467-468. Ref. Nov. 20, 1947. 390.8 B732
- 13835 WOLF, R. Süßmost statt gärmmost. Unser Wegweiser im Obstbau, Gart., Kleintierhof 3: 92-93. Aug. 1948. 18 Un7
- 13836 WYLIE, K. H. Coffee—a popular world beverage. Foreign Agr. 12: 246-249. Nov. 1948. 1 Ec7For

## DAIRY PRODUCTS

- 13837 ABRAHAMSEN, S. Dairy show in London. III. (In Danish.) Nord. Mejeri-Tidsskr. 14: 17-18. 1948. 44.8 N752
- 13838 ALGEMEENE NEDERLANDSCHE ZUIVELBOND. De coöperatieve zuivelbereiding in Nederland tijdens de regering van H. M. Koningin Wilhelmina; speciaal nummer van het Officieel Orgaan [Coöperative dairy products manufacture in the Netherlands since the reign of H. M. Queen Wilhelmina; special number of the Officieel Orgaan]. n. p., 1948. 31 p. 44.9 AL3  
Papers dealing with the history of the industry by J. L. Homan, P. N. Boekel, B. v. d. Burg, J. C. van Beek, L. V. Bartels, W. van Dam, L. T. C. Scheij, J. J. Wintermans, C. Zwagerman, B. H. E. Rooda, P. Krediet, J. Dokter, and J. A. Geluk.
- 13839 ANCeschi. Milk, cheese and butter. (In Italian.) Avvenire Agr. 56: 164-165. July 1948. 16 Av9
- 13840 ANNUAIRE de l'industrie laitière et de la porcherie, 24th, 1948. Paris, 1948. 462 p. 44.8 An72  
Chiefly a directory.
- 13841 AUSTRALIA. DAIRY PRODUCE BOARD: Twenty-second annual report for year 1946-47. Collingwood, 1947? 28 p. 44.9 Au72
- 13842 BAQUIAST, R. El control de la leche en Gran Bretaña. Esnea 35(1495): 14. Aug. 24, 1948. 44.8 Es5
- 13843 BECKER, R. B. Dairy science marches on. Fla. Poultry & Dairy J. 14(9): 4, 7-9. Nov. 1948. 47.8 F66
- 13844 BENNETT, B. H. The dairy situation and the outlook for milk production. Washington, U. S. Bur. Agr. Econ., 1948. 6 p. 1.941 A2B43
- 13845 BOEKEL, P. N. General observations on the consumer milk problem in our country. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 60: 2-8. Jan./Feb. 1948. 105.2 Or3
- 13846 BOEKEL, P. N. In what direction should our Dutch cheese industry develop? (In Dutch.) Landbouwk. Tijdschr. 59: 187-194. Mar./May 1947. 105.2 Or3



- 13847 BOGOD, M. We also want 150,000,000 gallons for ice cream. *Dairy Farmer* [Ipswich] 21(11): 10. Nov. 1948. 44.8 D1414
- 13848 BRANDT, J. Going forward. *Land O'Lakes News* 28(11): 3-9. Nov. 1948. 44.8 L22
- 13849 BRIGGS, F. A. What's the matter with dairying? *Farm & Ranch* 67(12): 10-11. Dec. 1948. 6 T31 Dairy industry in the Southwest.
- 13850 BROWN, H. L. What makes a dairy farmer. *Fla. Grower* 56(12): 22-23. Dec. 1948. 80 F6622
- 13851 BURNETT, C. Wisconsin's century of dairy progress. *Natl. Butter & Cheese J.* 39(12): 30, 32, 34. (To be cont.) Dec. 1948. 286.85 B98Bu
- 13852 CANDY, R. A. A Waikato farmer looks at British dairying. *New Zeal. Dairy Exporter* 24(3): 8-9, 11-13. Sept. 1948. 44.8 N484
- 13853 CARLINER, L. A. Inside Europe with an American ice cream manufacturer investigating Europe's ice cream industry. *Ice Cream Rev.* 32(4): 42, 98, 100, 102, 104, 106. Nov. 1948. 389.8 Ic2
- 13854 THE DAIRY industry. N. Y. Trust Co. Index 28: 49-60. Autumn 1948. 280.8 N48
- 13855 DELL, A. El dilema de los productores británicos de leche. *Res* 16: 22889, 22895. Oct. 5, 1948. 286.85 R31
- 13856 DOMINION DAIRY CONFERENCE. Proceedings of the seventeenth... conference, held in Wellington, September 2 and 3, 1948. Wellington, 1948. 53p. 44.9 D712
- 13857 ESCHÉ, E. Betriebsgrösse und kapazitätsausnutzung als erfolgskriterien in der molkeerwirtschaft. *Süddeut. Molkerei-Ztg.* 69: 188-190. July 29, 1948. 44.8 Su2
- 13858 FOULON, L. A. El tambo en la zona de abastecimiento de leche a la Ciudad de Rosario de Santa Fé; costo de producción. Buenos Aires. U. Facul. de Agron. y Vet. P. 4, 180 p. Buenos Aires, 1948. 9 B863P
- 13859 GRAVIT, A. We are increasing the assortment and are improving the quality. (In Russian.) *Moloch. Promysh.* 9(5): 5-7. May 1948. 44.8 M734 Dairy industry policy in Latvian SSR.
- 13860 GUERIN, B. C. DE. Alderney has too much milk. *Milk Indus.* 29(5): 45-46. Nov. 1948. 44.8 M593
- 13861 HAALMAN, N. Notes on dairy industrial development in Palestine with special emphasis on the "TNUVA" cooperative organization. *Dairy Indus. Soc., Internat. DISI B.* 3(sup.), 3 p. 1948? 44.9 D1422
- 13862 HARRISON. The co-operative handling of milk. Brisbane, Co-operative Union of Queensland, 1947. 7 p. 44 H243
- 13863 HEIDE, B. VAN DER. The raw material supply of the consumer milk industry. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 19-29. Jan./Feb. 1948. 105.2 Or3
- 13864 HUISMAN, H. J. General observations on the supply of consumer milk in our country. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 9-18. Jan./Feb. 1948. 105.2 Or3
- 13865 KAY, H. D. We need to produce 340,000,000 gallons more milk for liquid market alone. *Dairy Farmer* [Ipswich] 21(11): 9-10. Nov. 1948. 44.8 D1414
- 13866 KIRKPATRICK, W. Denmark, the dairy country. *Mich. Farmer* 210: 372-373, 386, 388. Dec. 4, 1948. 6 M58
- 13867 KOLLER, E. F. Operations are profitable, but what's your creamery's financial condition? *Creamery J.* 59(11): 5, 34. Nov. 1948. 44.8 C86
- 13868 KOSTIN, P. Cheese dairy is working at a profit [U. S. S. R.]. (In Russian.) *Moloch. Promysh.* 9(5): 37-39. May 1948. 44.8 M734
- 13869 LANGHARD, O. The Swiss cheese industry. *Food & Agr.* 7: 544-546. Aug./Sept. 1948. 389.8 F7326
- 13870 LESNE, L. Le lait de consommation. *Cahiers des Ingén. Agron.* 2(19): 13-16. Jan. 1947. 14 C112
- 13871 LIFSHITS, A. To lower the overhead expense. (In Russian.) *Moloch. Promysh.* 9(5): 11-13. May 1948. 44.8 M734 Policy of dairy industry in U. S. S. R.
- 13872 LYTLE, R. G. Milk is creating new wealth in North Carolina. *Farmers Fed. News* 29(3): 3, 21. Nov. 1948. 280.28 F225
- 13873 MACKIE, J. Alternativas y progresos de la producción lechera en Gran Bretaña. *Campeño* [Santiago] 80(8): 55-57. Aug. 1948. 9.3 So12
- 13874 MCKINLEY, R. C. Expanding our Dairy Council. *Inter-State Milk Prod. Rev.* 29(8): 20, 23, 25. Dec. 1948. 280.28 In83
- 13875 MCLANE, P. V. New Zealand dairying 1946-1947. *Overseas Rpt. Agr. Devlpmt.* 8, 3 p. June 1948. 281.9 C16420
- 13876 MAMEDOV, G. More dairy products for the petroleum workers of Azerbaijan. (In Russian.) *Moloch. Promysh.* 9(5): 4-5. May 1948. 44.8 M734 Policies and programs.
- 13877 MERIGGI, M. Milk and cheese production and the policy followed by factories. (In Italian.) *Gior. di Agr.* 57: 40. Feb. 16, 1947. 16 It1G Italy.
- 13878 MINNESOTA. DEPT. OF AGRICULTURE, DAIRY AND FOOD. Minnesota creameries, cheese and ice cream factories, milk plants, canneries, bottlers, refrigerated food lockers and registrants of economic poisons. St. Paul, 1948. 83 p. (B. of Inform., 1948). 44.9 M664
- 13879 NOVOKRESHCHENOV, D. We are increasing the output of our enterprises. (In Russian.) *Moloch. Promysh.* 9(5): 9-10. May 1948. 44.8 M734 Includes dairy industry of Karelo-Finnish SSR.
- 13880 OLSON, R. E. Dairy supply picture. *Confectionery-Ice Cream World* 40(23): 10, 18. Dec. 3, 1948. 389.8 C767
- 13881 RAGSDALE, A. C. The dairy program in Missouri. *Mo. Artificial Breeding News* 2(1): 1-3. Aug. 1948. 41.8 M693
- 13882 RIBEIRO, J. A. The Salte Plan; section on milk and milk products. (In Portuguese.) *Rev. dos Criadores* 19(6): 43-46. June 1948. 43.8 R32
- 13883 ROSS, G. The dairy trade and the dairy farmer. *Scot. Farmer* 56: 1264. Oct. 23, 1948. 10 Sco8 Dairy industry in Scotland.
- 13884 SAMUDIO, J. E. Producción lechera en Nueva Zelandia. *Rev. Ganad. [Habana]* 8(11): 27. Nov. 1948. 49 R321
- 13885 SCHULZ, M. E. Über die entwicklung der literaturfassung nach dem system der Bibliotheca Lactis. *Milchwissenschaft* 3: 286-292. Oct. 1948. 44.8 M5933 Summary in English and French.
- 13886 SEVERSON, H. They make dairying a game. *Amer. Farm Youth* 14(4): 48-49. Sept. 1948. 6 Am393 4-H clubs and Future Farmers of America.
- 13887 SIDOROV, A. The butter industry is reconstructed [In Moldavian SSR]. (In Russian.) *Moloch. Promysh.* 9(5): 8-9. May 1948. 44.8 M734
- 13888 SJÖHOLM, E. Some reflections on foreign cheese names. (In Swedish.) *Svenska Mejeritidningen* 40: 410, 412. Oct. 30, 1948. 44.8 Sv2
- 13889 SVENSKA MEJERIERNAS RIKSFORENING. Annual report of the Swedish Dairy Central Association for the year 1946. (In Swedish.) Stockholm, 1947. 80 p. 281.3449 Sv25 Contains also reports of Svenska Mejeriernas Garantiförening, Riksst S. M. R:s Ostlagerförening U. P. A., Wedholms Aktiebolag, and Aktiebolaget Kemikalia.
- 13890 TALLARICO, G. Observing a bottle of milk. (In Italian.) *Mondo del Latte* 1948(9): 3-5. Sept. 1948. 44.8 M74 Summary in French and English.
- 13891 TARDIFF, R. O. We have made progress. *Confectionery-Ice Cream World* 40(22): 14. Nov. 26, 1948. 389.8 C767 The dairy industry.
- 13892 TRUMPER, J. El Estado, la producción, el consumo y el problema del tambo. *Rev. SanCor* 6(69): 18. July 1948. 280.28 R322 Argentina.
- 13893 TWOMEY, T. P. J. The market milk industry in New Zealand. *Irish Agr. & Creamery Rev.* (n. s.) 17 (178): 7-9. (Cont.) Oct. 1948. 44.8 C866
- 13894 VARNEY, H. H. Production and market trends. *Mich. Milk Messenger* 30(8): 1. Dec. 1948. 44.8 M582
- 13895 VAUVEL, J. Huit années d'économie laitière [France]. *Tech. Lait.* 4(43): 25-26. Oct. 8, 1948. 44.8 Of2



13896 WILSTER, G. H. The dairy industry makes significant advances. *Food Indus.* 20: 1755-1762. Ref. Dec. 1948. 389.8 F737

13897 ZEILER, K. 40 Jahre vorzugsmilchanstalt Veitshof; 10 Jahre versuchsgut Hirschau. *Allgäuer Bauernbl.* 16: 208-209. Sept. 3, 1948. 18 AL53

13898 ZOLLIKOFER, E., and FUCHS, A. Der togenburger-ploderkäse; ein beiträg zur monographie schweizerischer käsesorten. *Schweiz. Milchztg.* 74: 477-480. Oct. 19, 1948. 44.8 Sch92

13899 ZWANOWETZ, R. Welcher aufgabenkreis beschäftigt heute den molkereileiter? *Österr. Milch- u. Fettwirtschaft* 3: 180-181. Aug. 1948. 44.8 Os72

#### Analysis and Composition

13900 ABD-EL-MALEK, Y., and GIBSON, T. Studies in the bacteriology of milk. I. The streptococci of milk. *Edinb. and East Scot. Col. Agr. Misc. P.* 18: 233-248. Ref. 1948. 103 Ed4M

13901 ANDERSON, C. W., MOEHRING, R., and GUNDERSON, N. O. A new method for fixing, defatting and staining milk and cream films. *J. Milk & Food Technol.* 11: 352-357, 364. Nov./Dec. 1948. 44.8 J824

13902 ARRINGTON, L. R., and KRIENKE, W. A. The limitations of the refractometer readings of milk serums in detecting watered milk. *J. Milk & Food Technol.* 11: 321-324. Nov./Dec. 1948. 44.8 J824

13903 BOGDANOV, V. Method of isolating the odor forming bacteria [from dairy products]. (In Russian.) *Moloch. Promysh.* 9(5): 20-21. May 1948. 44.8 M734

13904 CALLOW, E. H. Comparative studies of meat. II. The changes in the carcass during growth and fattening, and their relation to the chemical composition of the fatty and muscular tissues. *Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem.* 564: 174-199. 1948. 389.9 G792M

13905 CAULFIELD, W. J. Interpretation of laboratory results on ice cream samples. *Ice Cream Rev.* 32 (5): 114-115. Dec. 1948. 389.8 Ic22

13906 CSISZÁR, J., and DANKANITS, L. Analysis of samples taken from the different parts of the same Trappist cheese. (In Hungarian.) *Tejgazdaság* 5: 139-143. Oct. 1947. 44.8 T233  
English summary.

13907 CULLITY, M., and NEEDHAM, K. Routine examination of Western Australian butter for micro-biological and chemical content. *West. Austral. Dept. Agr. Leaflet* 901, 9 p. 1947. 23 W52B

13908 DEMMLER, G. Austauschstoffe für amyloalkohol und ihre brauchbarkeit zur fettgehaltsbestimmung nach Gerber in milch und molkereiprodukten. *Süddeut. Molkezeitg.* 69: 2-3. Jan. 15, 1948. 44.8 Su2

13909 DRUETTO, E. A. El porcentaje de caseína en leche, sus variaciones. *Indus. Lechera* 30: 601-607, 609-610, 612-614. Sept. 1948. 44.8 In26

13910 FOUASSIER, M. De la connaissance du lait: l'extrait dégraissé. *Crémérie Franç.* 89: 10. Oct. 15/20, 1948. 44.8 C867

13911 GALESLOOT, T. E. Comparison of the resazurin test with the methylene blue test in quality determination of raw milk. (In Dutch.) *Alg. Nederlandsche Zuivelbond. Off. Orgaan* 40: 203-204. Sept. 8, 1948. 44.9 AL3

13912 GOEDE, B. DE. Proteins which escape us. (In Dutch.) *Alg. Nederlandsche Zuivelbond. Off. Orgaan* 40: 190. Aug. 25, 1948. 44.9 AL3  
In dairy products.

13913 HANKES, L. V., and others. Liberation of amino acids from raw and heated casein by acid and enzyme hydrolysis. *J. Biol. Chem.* 176: 467-476. Ref. Nov. 1948. 381 J824

W. H. Riesen, L. M. Henderson, and C. A. Elvehjem, joint authors.

13914 HARPER, R., and BARON, M. Factorial analysis of rheological measurements on cheese. *Nature [London]* 162: 821. Nov. 20, 1948. 472 N21

13915 HAUGEN, E. Variation in fat content of milk during milking. (In Norwegian.) *Norsk Landbr.* 14: 359-361. Oct. 1, 1948. 11 N8122

13916 HERREID, E. O. Testing milk and milk products for fat and total solids. III. *Agr. Col. Ext. C.* 630, 80 p. Ref. Sept. 1948. 275.29 IL62C

13917 HILLIG, F. Volatile acids in cream and butter. I-II. *Assoc. Off. Agr. Chem. J.* 31: 750-760. Nov. 15, 1948. 381 As7

I, The development of butyric acid during the progressive decomposition of cream, by F. Hillig; II, Butyric acid in commercial creams and butters, by F. Hillig and D. Montgomery.

13918 HILLIG, F., and AHLMANN, S. W. Water insoluble fatty acids in cream and butter. *Assoc. Off. Agr. Chem. J.* 31: 739-749. Nov. 15, 1948. 381 As7

13919 KANNAN, A., and BASU, K. P. Phosphatase in milk. I. *Indian J. Dairy Sci.* 1: 16-22. Mar./June 1948. 44.8 In28

13920 KARUNINA, L. Some physical properties of condensed and dried milk. (In Russian.) *Moloch. Promysh.* 9(5): 22-23. May 1948. 44.8 M734

13921 KARSNITSKAIA, M. Composition and properties of milk fat glycerides. (In Russian.) *Moloch. Promysh.* 9(5): 29-31. May 1948. 44.8 M734

13922 KÄSTLI, P. Zur frage der tuberkelbazillenausscheidung in der milch tuberkulös erkrankter kühe. (Abs.) *Naturf. Gesell. Bern. Mitt. (n. s.)* 5: VIII-IX. 1948. 508 B45

13923 KOZLOV, A. Casein yield and milk fat. (In Russian.) *Moloch. Promysh.* 9(5): 24-25. May 1948. 44.8 M734

13924 KRUKOVSKY, V. N., GUTHRIE, E. S., and WHITING, F. Lipid deterioration in dairy products; the stability of milk fat and fat-soluble vitamins as determined by the re-emulsification test. *J. Dairy Sci.* 31: 961-972. Ref. Nov. 1948. 44.8 J822

13925 KUGENEV, P. V. Amino acid composition of milk in relation to the content of amino acids in the rations for cows. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 7: 149-161. 1948. 20 M857

13926 LING, E. R. A textbook of dairy chemistry. v. 2. Practical. Ed. 2, rev. London, Chapman, 1948. 124 p. 44 L641  
Tests and analysis.

13927 MANUS, L. J., and ASHWORTH, U. S. The keeping quality, solubility, and density of powdered whole milk in relation to some variations in the manufacturing process. II. Solubility and density. *J. Dairy Sci.* 31: 935-945. Ref. Nov. 1948. 44.8 J822

13928 NUSSBAUMER, T. Une cause d'erreur dans l'analyse des crèmes, d'après la méthode de Gerber. *Arch. des Sci.* 1: 202-209. 1948. 473 Ar2

13929 OVCHINNIKOV, A. Simplified method of determining calcium in milk. (In Russian.) *Moloch. Promysh.* 9(5): 44-46. May 1948. 44.8 M734

13930 PARODNECK, M. The milk dealers' chestnuts. *Northeast. Union Farmer* 7(9): 2. Nov. 1948. 280.28 F227

Milk prices.

13931 POSTHUMUS, G. On the value of the alcohol test in its various methods of execution. (In Dutch.) *Alg. Nederlandsche Zuivelbond. Off. Orgaan* 40: 191-192. Aug. 25, 1948. 44.9 AL3  
For milk.

13932 SADGOPAL. Composition of the milk fat of various species of animals. *Indian J. Dairy Sci.* 1: 23-26. Ref. Mar./June 1948. 44.8 In28

13933 SIGFRIDSSON, L. Average fat content of consumer milk from a management point of view. (In Swedish.) *Svenska Mejeritidningen* 40: 379-382, 387-389. Oct. 9-16, 1948. 44.8 Sv2

13934 SINGH, G., RAO, M. R. L., and LAXMINARAYANA, H. A comparative study of ten minutes resazurin test for the rapid examination of milk. *Indian J. Dairy Sci.* 1: 11-15. Mar./June 1948. 44.8 In28

13935 STASKIEWICZ, G. A study of pathogenic cocci present in milk, particularly of the *Streptococcus agalactiae*. (In Polish.) *Med. Wet.* 4: 554-555. Sept. 1948. 41.8 M463

English summary.

13936 STOLL, G. Über die praxis der sinnenprüfung. *Österr. Milch- u. Fettwirtschaft* 3: 173-174. Aug. 1948. 44.8 Os72

13937 SVENSKA SMÖRPROVNINGARNA. Report of the Swedish Butter Testing Commission. (In Swedish.) *Sweden. K. Lantbruksstyr. Meddel.* 342, 38 p. 1948. 11 Sw3

13938 SVENSSON, K. B. Fat content of mastitis milk. (In Swedish.) *Ladugarden* 1948: 117-118. July 1948. 44.8 L12



13939 TAYLOR, W. I. The growth and toxin production of *Clostridium botulinum* cottage cheese. Urbana, 1948. 2 p. 448.2 T213

Abstract of thesis - Univ. of Illinois.

13940 TING, I. Preliminary investigations of the determination of fully-saturated glycerides in New Zealand butterfat. New Zeal. J. Sci. and Technol. A. Agr. Res. Sect. 29: 240-246. Ref. Feb. 1948. 514 N48A

13941 TODOROFF, A., and ASSENOWA, K. Doppelkombinierte methode zur indirekten keimzahlbestimmung der milch. Milchwissenschaft 3: 300-302. Oct. 1948. 44.8 M5933

Summary in English and French.

#### Consumption and Utilization

13942 BIANCHI, G. Industrial utilization of whey. (In Italian.) Mondo del Latte (1948) 8: 7-11. Aug. 1948. 44.8 M74

Summary in French and English.

13943 COOK, H. L. Upward trends in the use of milk in bakery foods. Bakers Weekly 140(7): 77-78. Nov. 15, 1948. 389.8 B172

13944 FORBES, B. P. Consumers and chocolate milk. Amer. Milk Rev. 10(11): 18-19. Nov. 1948. 44.8 Am38

13945 HOPPER, W. C. Consumption of fluid milk and cheese in New Zealand and Australia. Overseas Rpt. Agr. Devlpmt. 7, 2 p. June 1948. 281.9 C16420

13946 LUCAS, P. S. Consumers preference tests for imitation and pure flavours in ice cream. Canad. Dairy & Ice Cream J. 27(11): 92, 94. Nov. 1948. 44.8 C162

Also in Ice Cream Indus. 23(8): 69-71. Nov. 1948. 389.8 Ic24

13947 MYRICK, N. Milk goes to a veterans hospital. Amer. Milk Rev. 10(11): 20, 77. Nov. 1948. 44.8 Am38

13948 SPENCER, L. The future of milk consumption. Milk Dealer 38(2): 50, 52, 54, 58, 60, 62, 86-87. Nov. 1948. 44.8 M595

#### Distribution, Marketing, and Transportation

13949 ACTIS GRANDE, J. L. Asegurar la conquista económica con una fuerza moral compacta. Rev. SanCor 6(69): 11. July 1948. 280.28 R322

Cooperative movement in the dairy industry.

13950 BEAL, G. M. The importance of producers' cooperatives in the fluid milk industry. Md. Farmer 32(10): 5, 10-11. Oct. 1948. 6 M362

13951 BRESSLER, R. G., JR. Efficiency of milk marketing in Connecticut. 10. Consumer demands and preferences in milk delivery. Conn. (Storrs) Agr. Expt. Sta. B. 257, 51 p. Ref. Apr. 1948. 100 C76S

13952 BUSHEK, F. Telling millions about milk. Inter-State Milk Prod. Rev. 29(8): 21, 25. Dec. 1948. 280.28 In83

13953 COULTER, S. T. Factors affecting butter sales. Natl. Butter & Cheese J. 39(12): 27-28. Dec. 1948. 286.85 B98Bu

13954 ECKARDT, G. Einführung der milchkontingierung und die lage der milchwirtschaft in Nordtirol. Süddeut. Molkerei-Ztg. 69: 5-6. Jan. 15, 1948. 44.8 Su2

13955 FLAGG, F. Designing a dairy trade-mark. Milk Plant Monthly 37(11): 36-37, 73. Nov. 1948. 44.8 C864

13956 GANTZ, H. L. They're making the cream check larger. Farm & Ranch 67(11): 6, 8-9. Nov. 1948. 6 T31

The Enid Cooperative Creamery Association.

13957 GEYER, K. E. Research and Marketing Act with reference to the dairy industry: the Dairy Advisory Committee. Northeast. Dairy Conf. Ann. Rpt. 13: 127-131. 1948. 44.9 N818

13958 GEYER, K. E. Strength and weakness of control: State. Northeast. Dairy Conf. Ann. Rpt. 13: 44-47. 1948. 44.9 N818

13959 HENRY, W. F., BRESSLER, R. G., JR., and FRICK, G. E. Efficiency of milk marketing in Connecticut. 11. Economies of scale in specialized pasteurizing and bottling plants. Conn. (Storrs) Agr. Expt. Sta. B. 259, 61 p. June 1948. 100 C76S

13960 HOPPER, W. C. Milk marketing in New South Wales. Overseas Rpt. Agr. Devlpmt. 11, 5 p. Aug. 1948. 281.9 C16420

13961 JAMISON, H. E. Inter-State's [Inter-State Milk Producers' Cooperative] year's progress. Inter-State Milk Prod. Rev. 29(8): 11, 15. Dec. 1948. 280.28 In83

13962 KEMP, W. B. Research and Marketing Act with reference to the dairy industry: State experiment stations. Northeast. Dairy Conf. Ann. Rpt. 13: 123-127. 1948. 44.9 N818

13963 LENT, F. Strength and weakness of control: State compacts. Northeast. Dairy Conf. Ann. Rpt. 13: 47-50. 1948. 44.9 N818

13964 MCBRIDE, C. G. State and Federal milk marketing orders in Cincinnati and Toledo, Ohio. Ohio. Agr. Expt. Sta. Res. B. 678, 49 p. Oct. 1948. 100 Oh3S

13965 MATHER, E. Strength and weakness of control: the Washington indictment. Northeast. Dairy Conf. Ann. Rpt. 13: 50-52. 1948. 44.9 N818

13966 MERKT, O. Das ende des bayerischen schutzmarkenverbandes für butter und käse. Süddeut. Molkerei-Ztg. 69: 186-187. July 29, 1948. 44.8 Su2

13967 MORTENSON, W. P. "Market outlets" for dry whole milk. Wis. Agr. Expt. Sta. Stencil B. 7, 50 p. June 1948. 100 W755

Also in Natl. Butter & Cheese J. 39(12): 22-23, 52. Dec. 1948. 286.85 B98Bu

13968 NEW ZEALAND CO-OPERATIVE DAIRY COMPANY LIMITED. Twenty-ninth annual report and balance sheet, 31st May, 1948. Hamilton, 1948. 39 p. 44.9 N488

13969 NEWCOMER, E. J. Milk vending - a new horizon. Amer. Milk Rev. 10(11): 40, 42. Nov. 1948. 44.8 Am38

13970 PARODNECK, M. The milk dealers are crying. Northeast. Union Farmer 7(11): 7. Dec. 1948. 280.28 F227

The milk market.

13971 POLLACINO, F. Consideraciones sobre práctica integral del cooperativismo. Rev. SanCor 6(69): 13. July 1948. 280.28 R322

In the dairy industry.

13972 PROCTER, F. Some aspects of modern milk distribution. Agr. Prog. 22: 113-116. 1947. 10 Ag86

13973 SELBY, H. W. Strength and weakness of control: Federal. Northeast. Dairy Conf. Ann. Rpt. 13: 36-44. 1948. 44.9 N818

13974 SEN, K. C., and LAXMINARAYANA, H. Some public health aspects of milk industry in India. III. Milk market control. Indian Farming 9: 239-245. June 1948. 22 In283

13975 SHANNON, R. E., and WELCH, W. F. Steady local advertising brings increased results. Creamery J. 59(11): 8, 32. Nov. 1948. 44.8 C86

13976 TRELOGAN, H. C. Research and Marketing Act with reference to the dairy industry: Federal. Northeast. Dairy Conf. Ann. Rpt. 13: 118-123. 1948. 44.9 N818

#### Grading, Inspection, Standardization, and Quality

13977 ARNOULD, C. A propos des appellations des gruyères. Monit. Agr. 1(43): 7. Nov. 7, 1948. 14 M744

13978 BRAMCAMP, L. Producers want to change dairy law. Calif. Farmer, North. Ed. 189: 314. Oct. 9, 1948. 6 C126

Milk Control Act.

13979 CLAYDON, T. J. Types of material in accumulated dust and fine debris. Amer. Milk Rev. 10(11): 24, 76-77. Nov. 1948. 44.8 Am38

Milk contamination.

13980 COULTER, S. T., JENNESS, R., and CROWE, L. K. Some changes in dry whole milk during storage. J. Dairy Sci. 31: 986-1003. Ref. Nov. 1948. 44.8 J822

13981 ENGELHARD, J. Le contrôle commercial du lait. Rustica 21: 684. Sept. 26, 1948. 14 R92

13982 EREKSON, A. B. Color defects in American cheese and related products. Natl. Butter & Cheese J. 39(12): 24-25, 60. Dec. 1948. 286.85 B98Bu

13983 FUCHS, E. Neue versuche über die haltbarkeit bestrahlter milch. Süddeut. Molkerei-Ztg. 69: 3. Jan. 15, 1948. 44.8 Su2

13984 HIETARANTA, M. Views on judging of butter. (In Swedish.) Svenska Mejeritidningen 40: 360-362. Sept. 25, 1948. 44.8 Sv2



13985 HOOD, E. G., and GIBSON, C. A. The problem of bitter flavour in Cheddar cheese. *Canad. Dairy & Ice Cream J.* 27(11): 45-47. Ref. Nov. 1948. 44.8 C162

13986 JACK, E. L. Dairy technology training for inspectors. *Pacific Dairy Rev.* 52(11): 26, 44. Nov. 1948. 286.85 P11

13987 JIRICEK, L. C. Clean milk helps both producer and consumer. *Amer. Farm Youth* 14(4): 10, 12. Sept. 1948. 6 Am393

13988 JOHNSON, L. Quality control. *United Farmers New England. News* 8(4): 12. Oct. 1948. 6 Un35 Milk quality.

13989 KEESTRA, F. Quality control of (export) cheese. (In Dutch.) *Landbouwk. Tijdschr.* 59: 194-202. Mar./May 1947. 105.2 Or3

13990 KEN, K. C., and LAXMINARAYANA, H. Some public health aspects of milk industry in India. II Measures for safeguarding the wholesome value of milk. *Indian Farming* 9: 176-183. May 1948. 22 In283

13991 KENNEDY, R., JR. Government and industry proposals for frozen dairy foods' standards. *Confectionery-Ice Cream World* 40(21): 12, 18. Nov. 19, 1948. 389.8 C767

13992 KOCK, G. DE. Veterinary plan for the fighting and control of diseases. (In Afrikaans.) *So. African Dairyman* 10: 345, 347. Oct. 1948. 44.8 So822 Through infected milk.

13993 KOROLEV, A. Control of pox like mold on cheese. (In Russian.) *Moloch. Promysh.* 9(5): 18-19. May 1948. 44.8 M734

13994 KOZHARIN, K. Scales for weighing milk. (In Russian.) *Moloch. Promysh.* 9(5): 32-33. May 1948. 44.8 M734

13995 KRENN, J. Neues über das butteraroma. *Osterr. Milch- u. Fettwirtschaft* 3: 169-172. Aug. 1948. 44.8 Os72

13996 KYED, J. Fluid milk. (In Danish.) *Nord. Mejeri-Tidsskr.* 14: 126-127. 1948. 44.8 N752 Sanitation and prices.

13997 LEACH, T. A modern goat dairy; milk from goats carefully handled provides a badly needed product. *Family Herald & Weekly Star* 79(47): 3, 13. Nov. 24, 1948. 7 F21 In British Columbia.

13998 LINDQUIST, H. G., and DONALDSON, R. W. Benzene hexachloride flavored milk from feeding potatoes grown on soils treated with the chemical. *J. Milk & Food Technol.* 11: 325-326. Nov./Dec. 1948. 44.8 J824 Soils treated for wire worm control.

13999 MULDER, H. Cheese flavor. (In Dutch.) *Landbouwk. Tijdschr.* 59: 131-187. Mar./May 1947. 105.2 Or3

14000 NIKULICHEV, P. A source of additional butter output. (In Russian.) *Moloch. Promysh.* 9(5): 41-43. May 1948. 44.8 M734

Measures for improvement of milk quality in U. S. S. R.

14001 PARPANI, G. Anomalies, defects, and diseases of cheese. (In Italian.) *Latte* 22(8): 8. (Concl.) Aug. 1948. 44.8 L35

14002 PROVAN, A. L. "Banish this nightmare" [of poor keeping quality and sour milk]. *Farmer & Stock-Breeder* 62: 2595. Nov. 9, 1948. 10 F228 Milk sanitation.

14003 RANOUIL, P. Alterations et maladies du lait. *Terre Maroc.* 20: 270-272. Oct. 1948. 24 T44

14004 SAITNER, M. Qualität und preis. *Südteut. Molkerei-Ztg.* 69: 19-20. Jan. 29, 1948. 44.8 Su2

14005 SAMSCEN, M. Je reviens des hopitaux. *Cahiers des Ingén. Agron.* 2(19): 9-12. Jan. 1947. 14 C112

Gastro-enteritis caused by milk.

14006 SVEDBERG, H. Butter quality and retail prices. (In Swedish.) *Svenska Mejeritidningen* 40: 423-425. (To be cont.) Nov. 13, 1948. 44.8 Sv2

14007 TRETSVEN, W. I. Variations in milk and their effects on processing. I. *Milk Plant Monthly* 37 (11): 33-35. Nov. 1948. 44.8 C864

#### Packing and Packaging

14008 ERBACHER, E. Das verpackungsmaterial für käse. *Südteut. Molkerei-Ztg.* 69: 42-43. (To be cont.) Feb. 26, 1948. 44.8 Su2

14009 STÜSSI, D. Automatische butterform- und verpackmaschinen. *Schweiz. Milchtg.* 74: 497. Oct. 29, 1948. 44.8 Sch92

14010 TROLLE, R. Tin or aluminum? (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland* 18(49): 5. Dec. 4, 1948. 11 J762 For transportation of milk.

#### Prices, Price Control, and Rationing

14011 BARTLETT, R. W. Principles for pricing market milk. III. *Farm Econ.* 161: 739-743. Oct. 1948. 275.28 IL5

14012 BOSTON MILKSHED PRICE COMMITTEE. A recommended basis of pricing class I milk in the Boston market; a condensed report. Boston, 1947. 21 p. 284.344 B65A

14013 CAPRIVI, A. VON, and DURSTELER. Ein wort zum milchpreis - und eine erwidern. *Landwirtschaftsblatt Weser-Ems* 95: 206-207. Oct. 20, 1948. 18 L2345 Germany.

14014 CHAPIN, L. A. Development of formula milk pricing traced. *Dairymen's League News* 32(23): 3, 7. Nov. 16, 1948. 44.8 D1432

14015 CHRISTIAN, C. F. Unseasonal price slump poses problem for milk producers. *Ohio Farmer* 202 (10): 3. Nov. 20, 1948. 6 Oh3

14016 FRANKENA, H. J. The price of butter in Australia. (In Dutch.) *Alg. Nederl. Zuivelbond. Off. Organ* 40: 228-229. Oct. 6, 1948. 44.9 AL3

14017 HONAN, J. E. Your class II price is important. *Inter-State Milk Prod. Rev.* 29(8): 16-17, 28. Dec. 1948. 280.28 In83

14018 LOOSEN, R. Problèmes d'actualité: le rationnement du beurre en France. *Oléagineux* 3: 543-545. Nov. 1948. 77.8 OL2

14019 LUKE, H. A. The pricing of milk sold to outside markets. *Mkt. Admnr. B. [N. Y.]* 8(10): 2-3. Oct. 1948. 280.38 M344

14020 NÚÑEZ MESA, D. Precios de la leche condensada. *Rev. Ganad. [Habana]* 8(9): 12-13, 64. Sept. 1948. 49 R321

14021 PIERCE, C. W. Competition among markets bringing higher milk prices. *Pa. Farm Econ.* 32: 4-6. Sept. 1948. 275.29 P382Pf

14022 SERANDOUR, P. Le nouveau prix du lait doit marquer une étape vers la liberté. *Monit. Agr.* 1(39): 3. Oct. 10, 1948. 14 M744 France.

14023 SMITH, C. W. What will happen to the price of milk? *United Farmers of New England. News* 8(6): 14. Dec. 1948. 6 Un35

14024 SMITH, E. R. Defense of location differential payments. *Metrop. Milk Prod. News* 8(11): 10-11. Oct. 1948. 280.28 M56

14025 VOPELIUS, O. Ist die milchhandelsspanne zu gross? *Ernährungsdienst* 3(42): 3. Sept. 23, 1948. 389.8 Er62 Germany.

14026 WELDEN, W. C. Formula pricing of class I milk under market orders. *Metrop. Milk Prod. News* 8(11): 13-15. Oct. 1948. 280.28 M56

#### Processing and Storage

14027 ARBUCKLE, W. S. Importance of proper stabilization in production of quality ice cream. *Confectionery-Ice Cream World* 40(23): 26. Dec. 3, 1948. 389.8 C767

14028 ARNOULD, C. Pasteurisation du lait: ses avantages indéniables. *Monit. Agr.* 1(42): 4. Oct. 31, 1948. 14 M744

14029 BARRET, A. Considérations sur la pasteurisation en fromagerie. *Tech. Lait.* 4(43): 8, 18. Oct. 8, 1948. 44.8 Of2

14030 BEHMER, M. L. A. Whey cheese. I. (In Portuguese.) *Chacaras e Quintais* 78: 307-308. Sept. 15, 1948. 9.2 C34

14031 BELL, R. W. Retention of ascorbic acid, changes in oxidation-reduction potential, and the prevention of an oxidized flavor during freezing preservation of milk. *J. Dairy Sci.* 31: 951-960. Ref. Nov. 1948. 44.8 J822

14032 BORRELL, S. Destrucción de la "beta" lactosa durante la conservación de la leche en polvo descremada. *Soc. Españ. de Fís. y Quím. An. Ser. B. Quím.* 44: 143-154. Ref. Jan. 1948. 385 So16 English summary.



- 14033 BUNDSCHU, E. Neue absperre-organe aus nichtrostendem stahl und aluminum für die milch- und getranke-industrie. Süddeut. Molkerei-Ztg. 69: 22-23. Jan. 29, 1948. 44.8 Su2
- 14034 BURKEY, L. A. Bulgarian and acidophilus cultured milks. Amer. Milk Rev. 10(11): 46-49, 72-73. Nov. 1948. 44.8 Am38
- 14035 CARTER, R. M. A look at the future of commodity research in New England: dairy marketing research in Vermont. New England. Res. Council Mktg. and Food Supply. Proc. 1948: 46-48. 252.004 N443M
- 14036 CIANI, G. The selection of detergents in the dairy industry. (In Italian.) Latte 22(6): 13-14. June 1948. 44.8 L35
- 14037 CUNNINGHAM, A. The essentials of hygienic milk production. Edinb. and East Scot. Col. Agr. Farmers Leaflet 5, 8 p. July 1948. 281.9 Ed4F
- 14038 DAHLE, C. D., and NAGEOTTE, G. J. A study of cream cheese manufacturing methods. Natl. Butter & Cheese J. 39(11): 40, 42-44, 46. Ref. Nov. 1948. 286.85 B98Bu
- 14039 DAIRY INDUSTRIES SUPPLY ASSOCIATION. Dairy industries exposition, October 25-30, 1948, Atlantic City, New Jersey, U. S. A. Washington, D. C., 1948. 8 p., folder. 44.9 D144
- 14040 DEMENT'EV, M. Processing of whey—a profitable business. (In Russian.) Moloch. Promysh. 9(5): 13-15. May 1948. 44.8 M734
- 14041 DENMARK. STATENS FORSØGSMEJERI. Testing of a Titan separator type C 368 and an Alfa-Laval separator, type 171 M. Testing of the dependency of clean-churning on clean skimming. (In Danish.) Denmark. Statens Forsøgsmejeri. Beret. 54, 35 p. 1947. 44.9 D414  
English, German and French summaries.
- 14042 DENMARK. STATENS FORSØGSMEJERI. Testing of Kolding plate apparatus, type 2 SK for water heating, type 2 SK for steam heating, Kolding plate pasteurizer for cream, type 5 BKd. (In Danish.) Denmark. Statens Forsøgsmejeri. Beret. 53, 50 p. 1947. 44.9 D414  
English, German and French summaries.
- 14043 DRENCKHAN, E. Geldreform und molkerei-technik. Süddeut. Molkerei-Ztg. 69: 187. July 29, 1948. 44.8 Su2
- 14044 DUKE, H. A. A look at the future of commodity research in New England; dairying. New England. Res. Council Mktg. and Food Supply. Proc. 1948: 43-45. 252.004 N443M
- 14045 FRIEDEL, F. A. Filtrationsprobleme bei der molkeaufbereitung. Milchwissenschaft 3: 292-296. Oct. 1948. 44.8 M5933  
Summary in English, French, and Russian.
- 14046 HUCKER, G. J. Cleaner-sanitizer mixtures for dairy. Metrop. Milk Prod. News 8(12): 19. Nov. 1948. 280.28 M56
- 14047 HUNT, P. The latest trend in ice cream making and packaging—Arden diced cream. West. Confectioner Ice Cream News 35(10): 13. Oct. 1948. 389:8 W522
- 14048 IRVINE, O. R., and others. A comparison of the yields of Cheddar cheese. Canad. Dairy & Ice Cream J. 27(11): 49-51. Ref. Nov. 1948. 44.8 C162  
L. R. Bryant, D. C. Hill, and W. H. Sproule, joint authors.
- 14049 JACK, E. L., and TARASSUK, N. P. Palatable dry whole milk of good keeping quality assured by correct preparation and proper packaging. Calif. Agr. [Calif. Sta.] 2(11): 10. Nov. 1948. 100 C12Cag
- 14050 JORDAN, W., and HOLLAND, R. F. Measurement of holding time of high-temperature, short-time pasteurizers. Milk Plant Monthly 37(11): 85. Nov. 1948. 44.8 C864
- 14051 KNOTT, C. B., and KESLER, E. M. Dairy production research. Dairymen's Price Rptr. 30(11): 9. Nov. 1948. 280.28 D14  
Sanitary processes.
- 14052 KOERVER, C. Flavoring materials as used in ice cream. Ice Cream Field 52(5): 30, 33-34. Nov. 1948. 389.8 Ic23
- 14053 KOSIKOWSKY, F. V., and DAHLBERG, A. C. Flavor development in American Cheddar cheese made from pasteurized milk. (Sum.) Natl. Butter & Cheese J. 39(11): 26, 28. Nov. 1948. 286.85 B98Bu
- 14054 KRISHNAMURTI, C. R., and SUBRAHMANYAN, V. Studies on vegetable rennet. I. The milk-coagulating enzyme of *Ficus carica* Linn.; preparation and physico-chemical properties. Indian J. Dairy Sci. 1: 27-44. Ref. Mar./June 1948. 44.8 In28
- 14055 KRUSI, J. Why concentrate. Natl. Butter & Cheese J. 39(12): 72. Dec. 1948. 286.85 B98Bu
- 14056 KUK, G. Rollerless churns. (In Russian.) Moloch. Promysh. 9(5): 15-17. May 1948. 44.8 M734
- 14057 KUSWA, W. Why hard water requires specialized treatment. Amer. Milk Rev. 10(11): 6-7. Nov. 1948. 44.8 Am38
- 14058 MCCARTHY, F. W. Advanced engineering in processing evaporated milk. Food Indus. 20: 1594-1597. Nov. 1948. 389.8 F737
- 14059 MACY, H. Nature's secrets revealed; an outline of the principles and the value of research, with particular reference to research in the ice cream industry. Canad. Dairy & Ice Cream J. 27(11): 75-77. Nov. 1948. 44.8 C162
- 14060 MOHR, W. Versuchs- und Forschungsanstalt für Milchwirtschaft in Kiel. Milchwissenschaft 3: 284-285. Oct. 1948. 44.8 M5933
- 14061 MORK, I., NILSEN, A., and AASÄREN, O. Experiments on mechanical molding of mixed goat whey cheese. (In Norwegian.) Norway. Statens Meieriforsøk. Beret. 1948: 1-29. 44.9 N83  
English summary.  
Supplement, by A. T. Bergum, p. 30-40.
- 14062 MUCCILOLO, P., LACAZ, C. S., and RIBEIRO, P. A. Penicilliosis in cheese; preliminary observations upon the action of sodium ethyl-mercuri-thiosalicylate (merthiolate) in preventing alterations produced by *Penicillium* sp. (In Portuguese.) São Paulo U. Facul. de Med. Vet. Rev. 3: 283-300. Ref. June 1948. 41.8 Sa6  
English summary.
- 14063 MUSHTUKOV, E. Production of cranberry butter from miscellaneous butter. (In Russian.) Moloch. Promysh. 9(5): 43. May 1948. 44.8 M734
- 14064 MUSSETT, A. T., and MARTIN, W. H. Manufacture, use and storage of dehydrated sweetened condensed skimmilk. Ice Cream Rev. 32(5): 44, 46, 48, 50. Dec. 1948. 389.8 Ic22
- 14065 ORSENIGO, G. Butter manufacture with selected starters. (In Italian.) Mondo del Latte (1948) 8: 3-5. Aug. 1948. 44.8 M74  
Summary in French and English.
- 14066 PAPE, C. H. Disadvantages for dairy factories in using ground water containing methane. (In Danish.) Nord. Mejeri-Tidsskr. 14: 105-108. 1948. 44.8 N752
- 14067 PEDERSEN, A. Actual ice cream problems. (In Danish.) Nord. Mejeri-Tidsskr. 14: 131-132. 1948. 44.8 N752
- 14068 QUADRI, P. Influence of temperature on manufacture and curing of Parmesan cheese. (In Italian.) Latte 22(8): 9-10. Aug. 1948. 44.8 L35
- 14069 PETTE, J. W. Ripening of cheese made from pasteurized milk. (In Dutch.) Landbouwk. Tijdschr. 59: 170-180. Ref. Mar./May 1947. 105.2 Or3
- 14070 PITULA-SKRZYNSKA, J. Production of and microbiological research on a milk beverage called Huslanka. (In Polish.) Przegl. Hodowlany 16: 162-168. Ref. June 1948. 49 P952  
English summary.
- 14071 RANGAPPA, K. S., and BANERJEE, B. N. Storage of indigenous butter. Indian J. Dairy Sci. 1: 45-47. Mar./June 1948. 44.8 In28
- 14072 RASMUSSEN, A. Production and manufacture of casein in Denmark. (In Danish.) Nord. Mejeri-Tidsskr. 14: 113-114. 1948. 44.8 N752
- 14073 RAY, G. Généralisation de la pasteurisation du lait destinée à la consommation en nature. Acad. d'Agr. de France. Compt. Rend. 34: 728-730. June 16/23, 1948. 14 P215Bc  
Discussion, p. 730-731.
- 14074 READING, UNIVERSITY. NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING. Report for the year ended 30th September 1947. Reading, Eng., 1948. 67 p. 44.9 N211
- 14075 RIEDEL, W. Sinnenprüfung in der käseerei. Süddeut. Molkerei-Ztg. 69: 286-287. (To be cont.) Sept. 9, 1948. 44.8 Su2
- 14076 SAITNER. Wir wollen in der qualitätserzeugung wieder den anschluss finden. Süddeut. Molkerei-Ztg. 69: 293. Sept. 9, 1948. 44.8 Su2



14077 SHCHERBOV, M. New method of manufacturing [dairy products] calculations. (In Russian.) Moloch. Promysh. 9(5): 26-29. May 1948. 44.8 M734  
14078 SMILLIE, Bacterial control. Ice Cream Indus. 23(8): 61. Nov. 1948. 389.8 Ic24  
Discussion, p. 61-62.

14079 SPUR, B. Methods of manufacturing soft curd milk, with special attention to homogenizing of consumer milk. (In Danish.) Nord. Mejeri-Tidsskr. 14: 13-15. 1948. 44.8 N752

14080 SVIRIDOV, S. A spring press for cheese. (In Russian.) Moloch. Promysh. 9(5): 39-41. May 1948. 44.8 M734

14081 SWAN, L. C. Don't be a millionaire. Ontario Milk Prod. 24: 144-145. Nov. 1948. 44.8 On8  
Sanitary procedures in milk handling.

14082 TOMKA, G. Experiments with Trappist cheese. VI) Tejgazdaság 5: 145-151. Oct. 1947. 44.8 T233

English summary.

14083 TRACY, P. H. Manufacture of chocolate ice cream. Confectionery-Ice Cream World 40(22): 13, 16. Nov. 26, 1948. 389.8 C767

14084 TRACY, P. H. The manufacture of powdered cream. Canad. Dairy & Ice Cream J. 27(11): 52-53. Nov. 1948. 44.8 C162

14085 VOLCHKOV, I. A rotary pump. (In Russian.) Moloch. Promysh. 9(5): 34. May 1948. 44.8 M734  
In dairy products manufacture.

14086 WILSMANN, W. Der trennvorgang in der schleudertrommel. Milchwissenschaft 3: 302-309. (To be cont.) Oct. 1948. 44.8 M5933

14087 ZADRA, A. The proper manufacture of cheese. (In Italian.) Latte 22(6): 9-10; (7): 8; (8): 7. June-Aug. 1948. 44.8 L35

14088 ZARIBNICKY, F. Penicillinwirkung in milch. Wiener Tierärztl. Monatsschr. 34: 775-778. Dec. 1947. 41 T345

#### Statistics

14089 HONL. Die milcherzeugung in Württemberg-Baden; vergleich der jahre 1946 und 1939. Statist. Monatsh. Württemberg-Baden 1: 298-304. Nov.-Dec. 1947. 265 ST24

14090 SPEINLE. Sind milchleistungsprüfungen überflüssig? Süddeut. Molkerei-Ztg. 69: 190-191. July 29, 1948. 44.8 Su2

#### FEED AND FORAGE CROPS

14091 ASHTON, G. C. Flexible feed formulae must not be overlooked. Milling & Feed 29(12): 14, 21. Dec. 1948. 298.8 C162

14092 ASHTON, G. C. Quality in mixed feeds. Milling & Feed 29(10): 15, 24-25. Oct. 1948. 298.8 C162

14093 BARKER, A. S. Co-operation in fodder conservation. Agr. Prog. 22: 92-98. 1947. 10 Ag86

14094 BLASER, R. E., and RIGNEY, J. A. Sampling Alyce clover for chemical analyses. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 75-76. 1948. 4 C82

14095 BOSS, S. The feed situation. Co-op. Poultryman 13(12): 7. Dec. 1948. 280.28 C7843

14096 BOTTAZZI, A., and SCACCAGLIA, R. The success of the fodder from the Consorzio Agrario. (In Italian.) Avvenire Agr. 5: 234-235. Sept. 1948. 16 Ay9

14097 BRIGGS, G. M. What's ahead in poultry feeding? Md. State Poultry Council. Proc. 1947: 11-12. 1948. 47.9 M36P

Feed outlook.

14098 BROCHARD, J. P. DE. La vérification et l'homologation avant fabrication des formules d'aliments composés pour le bétail. Paysan 24(371): 4-5. Nov. 1948. 14 P29

14099 CAROLIS, V. DE. All speak of proteids, lipides and glucides: no one teaches how forages are preserved and utilized. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 156-158. Sept. 15, 1948. 16 C72

14100 DANFORTH, D. Feed men and the banker. Flour & Feed 49(7): 24-25. Dec. 1948. 298.8 F66

14101 THE FEEDING stuffs industry; seed crushing, compound and provender manufacturing industries; third series of lessons. Milling 111: 352-355. Oct. 16, 1948. 298.8 M622

Seed crushing, by H. Moore, p. 352-353; Compound and provender milling technology, by A. S. Moore, p. 353-354; Seed crushing and compound milling—general subjects, by A. S. Moore, p. 354-355.

14102 HURST, W. M. Farmers' cooperative feed mills; plans and operations. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 125, 41 p. Oct. 1948. 166.3 M68

14103 JANIKOWSKI, T. Problem of foodstuffs and the Polish animal husbandry. (In Polish.) Przegl. Hodowlany 16: 149-152. June 1948. 49 P952  
English summary.

14104 JONES, E. The national need for fodder conservation. Agr. Prog. 22: 76-78. 1947. 10 Ag86

14105 JONES, J. R. Uniform feed control laws. Flour & Feed 49(7): 36-37. Dec. 1948. 298.8 F66

14106 JORIS. Wohin mit dem rübenblatt? Neue Mitt. f. die Landw. 3: 387, 389. Nov. 15, 1948. 18 N39

14107 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial feeds in Kentucky, including report on official feed samples analyzed, October-December, 1947. Ky. Agr. Expt. Sta. Regulat. B. 63, 35 p. Aug. 1948. 100 K41

14108 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Quarterly report on official feed samples analyzed, April, May, and June, 1948. Ky. Agr. Expt. Sta. Regulat. B. 66, 27 p. Oct. 1948. 100 K41

14109 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Quarterly report on official feed samples analyzed in January, February, and March, 1948. Ky. Agr. Expt. Sta. Regulat. B. 64, 32 p. Sept. 1948. 100 K41

14110 LINKOLA, O. Last summer's hay crop. (In Swedish.) Prakt. Försöksverks. 4: 69-70. Oct. 1947. 20 P88

Acreage and yield.

14111 MILLER, R. C. This season's feed problem. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 63(12): 105. Dec. 1948. 6 P945K

14112 NATIONAL HAY ASSOCIATION, INCORPORATED. Year book and membership directory 1948. n. p., 1948. 104 p. 286 N21

14113 NEW MEXICO. FEED AND FERTILIZER CONTROL OFFICE. Nineteenth annual report, fiscal year ending June 30, 1948: commercial feeding stuffs, by R. W. Ludwick. State Col., N. Mex., 1948. 96 p. 389.79 N46

14114 NEW YORK. DEPT. OF AGRICULTURE AND MARKETS. BUR. OF FOOD CONTROL. List of brands of concentrated commercial feeding stuffs for which wholesalers' licenses were issued between January 1 and June 30, 1948, for license year ending December 31, 1948. N. Y. State. Dept. Agr. and Markets. Agr. B. 365, 65 p. Oct. 1948. 2 N462

14115 NEW YORK. DEPT. OF AGRICULTURE AND MARKETS. BUR. OF FOOD CONTROL. Report of analyses of samples of feeding stuffs collected in New York State from January 1 to December 31, 1947, inclusive. N. Y. State. Dept. Agr. and Markets. Agr. B. 363, 113 p. July 1948. 2 N462

14116 ØSTERGAARD, P. S. Errors in determining averages in sugar beet and rutabaga analysis. (In Danish.) Denmark. Statens Husdyrbrug, Forsøgslab. Beret. 231: 96-105. 1948. 104 D41  
Feed.

14117 PERUCHON DE BROCHARD, J. La vérification et l'homologation avant fabrication des formules d'aliments composés pour le bétail. Prog. Agr. et Vitic. 1948: 188-192. Oct. 3/10, 1948. 14 P94

14118 ROTEN, E. Obst und obsttrester als futtermittel. Grüne 76: 1041-1045. Oct. 1, 1948. 17 Sch9

14119 SALES, G. M. Announcing new feed line. Farmers Fed. News 29(4): 14. Dec. 1948. 280.28 F225  
Produced by Farmers Federation.

14120 SHAWAN, J. A. Building Farm Bureau feeds. Ohio Farm Bur. News 28(4): 34-35. Nov. 1948. 6 Oh34  
Ohio Farm Bureau feed program.

14121 SHRADER, H. L. Ways and means of conserving grain on the poultry farm. Md. State Poultry Council. Proc. 1948: 31-32. 1948. 47.9 M36P

14122 STEENBERGH, D. K. Successful feed merchandising. Feed Bag 24(11): 59-60. Nov. 1948. 389.78 F32

14123 STICE, W. N. Are you selling feed or just taking orders? Grain & Feed J. Consolidated 101(8): 25-27. Oct. 27, 1948. 298.8 G762

14124 SYMONS, T. B. Maryland poultrymen and the national food conservation program. Md. State Poultry Council. Proc. 1948: 28-30. 1948. 47.9 M36P



14125 THOMAS, F. W. The feed industry's obligation to its customers. *Feedstuffs* 20(45): 46-49. Nov. 6, 1948. 286.81 F322

14126 THOMAS, F. W. Sell feed on basis of results; feeders have right to expect uniform quality. *Feed Bag* 24(11): 67-68. Nov. 1948. 389.78 F32

14127 TOMÉ, G. A. Conservación racional de forrajes. *Bolsa de Cereales*, Buenos Aires. Rev. 35(1864): 8-9, 11, 14. Sept. 16, 1948. 287 B866

14128 U. S. BUR. OF AGRICULTURAL ECONOMICS. Cowpeas: production, farm disposition, and value, by States, 1924-44. Washington, 1948. 11 p. 1.941 H2C832

14129 WINTHER, J. E. On changes in the chemical composition of root crops during storage. (In Swedish.) *Denmark. Statens Husdyrbrug. Forsøgslab. Beret.* 231: 78-95. 1948. 104 D41  
Sugar beets and feed beets.

#### FIBERS AND TEXTILES

14130 ACKERMAN, F. E. The need for wool research. *Natl. Wool Grower* 38(11): 16-17, 28-29. Nov. 1948. 45.8 N21N

14131 ANDALÒ, G. Twenty thousand hectares to cotton in Sicily. (In Italian.) *Gior. di Agr.* 58: 320. Nov. 14, 1948. 16 ItIG

14132 ANDERSON, H. C. Wool processing in Wyoming? *Wyo. Stockman-Farmer* 54(11): 6. Nov. 1948. 6 W992

14133 BAILEY, F., and RICHTER, J. Based on "moving average": the acreage allotment question. *Cotton Gin & Oil Mill Press* 49(23): 9. Nov. 13, 1948. 304.8 C822

14134 BAINES, A. R. La laine; quelques aspects internationaux, notamment en regard de l'économie anglo-belge. *Soc. Belge d'Etudes & d'Expansion. B. Bimest.* 47: 576-580. Aug./Oct. 1948. 280.8 So17

14135 BARBER, C. R. The Alexandria futures market. *Egypt. Cotton Gaz.* 5: 13-17. Sept. 1948. 72.8 Eg9

14136 BASAK, K. C. World consumption of jute. *Indian Cent. Jute Com. Econ. Res. Mem.* 1, 30 p. 1948. 73.39 In26Em

14137 BELLORA, P. Egyptian cotton in Italy. *Egypt. Cotton Gaz.* 5: 5-7. Sept. 1948. 72.8 Eg9

14138 BENDIGO, C. W. The outlook in textiles. *Boston Conf. Distrib.* 20: 68. 1948. 286.29 B65

14139 BENGAL CHAMBER OF COMMERCE. Jute imports into Calcutta and the mills' stations; statement showing the quantity of jute imported into Calcutta and the mills' stations, monthly during the season 1947-1948. *Calcutta*, 1948. 1 p. 287 B43C

14140 BERNEGGER, R. Der nachweis härthbarer kunstharze in viscosfasern. *St. Gallen, Zollikofer*, 1948. 36 p. 304 B45

Promotionsarbeit - Eidgenössische technische Hochschule, Zürich.

14141 BIANCHEDI, A. Silk, silk, silk! (In Italian.) *Gior. di Agr.* 57: 1. Jan. 5, 1947. 16 ItIG  
The industry in Italy.

14142 BIRT AND COMPANY (PTY.) LIMITED, SYDNEY. *Wool*, 1947-48. Sydney, 1948. 48 p. 286.3459 W88

14143 BLACK, D. L. Cotton identification. *Delta Council News* 9(11): 3. Nov. 1948. 280.8 D38

14144 BLACKSHAW. Numbering textile fibres and filaments. *Canad. Textile J.* 65(24): 58-59. Nov. 26, 1948. 304.8 C16

14145 BOLLIGER, A., and MCDONALD, N. D. The glycogen content of rabbit hair. *Austral. J. Expt. Biol. & Med. Sci.* 26: 459-463. Sept. 1948. 442.8 Au7

14146 BONDAR, G. Banana tree fiber. (In Portuguese.) *Chacaras e Quintais* 78: 428-429. Oct. 15, 1948. 9.2 C34

14147 BROWN, C. H. Commercial yarn strengths. *Egypt. Cotton Gaz.* 5: 23-24. Sept. 1948. 72.8 Eg9

14148 BROWN, C. H. The economics of Egyptian cotton. *Egypt. Cotton Gaz.* 5: 19-22. Sept. 1948. 72.8 Eg9

14149 BURKS, A. J. Amazon jute saga. *Brazil* 22(10): 10-11, 17-18. Oct. 1948. 280.8 B732

14150 BURTE, H. M. Remarks on the "secondary yield point" in wet wool fibers. *Textile Res. J.* 18: 635. Oct. 1948. 304.8 T293

14151 CALDWELL, S. A. G. Modern jute manufacture. V. Spinning. *Fibres* 9: 437-440. Nov. 1948. 304.8 F16

14152 CALDWELL, S. A. G. Spinning long rayon staple fibre. *Textile Mfr.* 73: 168-169. Apr. 1947. 304.8 T3126

14153 CALDWELL, S. A. G. Spinning long staple rayon. *Textile Mfr.* 73: 512-513. Nov. 1947. 304.8 T3126

14154 CALDWELL, S. A. G. The spinning range of low grade flaxes. *Textile Mfr.* 74: 462-463, 465. Oct. 1948. 304.8 T3126

14155 CALKINS, E. W. S. Cotton versus rayon in tires. *Rayon & Synthetic Textiles* 29(12): 67-68. Dec. 1948. 304.8 R21

14156 CALLANDER, R. C. Delivery notices in cotton futures markets. *U. S. D. A. C.* 794, 19 p. July 1948. 1 Ag84C

14157 CARTER, S. Fiber sorters aid cotton-mill operation. *Textile World* 98(12): 109, 192, 194, 196, 198. Dec. 1948. 304.8 T315

14158 CAWNPORE. TECHNICAL DEVELOPMENT ESTABLISHMENT LABORATORY, STORES. The deterioration of tentage in India. 3. Effect of exposure to different climates. *Kanpur*, 1948. 7 p. 385 C312

14159 CHEVALIER, A. La situation actuelle et l'avenir de la culture cotonnière dans la France d'Outre-Mer. *Acad. d'Agr. de France. Compt. Rend.* 34: 719-725. June 16/23, 1948. 14 P215Bc  
Discussion, p. 725-726.

14160 DAKIN, G. Fibre and yarn. I. The prediction of yarn strength from fibre properties. *Fibres* 9: 424-426. Nov. 1948. 304.8 F16

14161 DALY, J. Outlook bright for South's cotton textiles. *Mfrs. Rec.* 117(12): 48, 60. Dec. 1948. 297.8 M31

14162 DAVIS, L. G. Structure of wool fibre revealed by new electron microscopy technique. *Textile Rec.* 66(788): 51-53. Nov. 1948. 304.8 T311

14163 DAVISON'S textile blue book, 83rd, 1948. *Ridgewood, N. J.*, 1948. 1536 p. 304 B62

14164 DE KLERK, J. C. Textile fibres. *Farming So. Africa* 23: 537-546. Aug. 1948. 24 So842  
Properties and uses.

14165 DUGGAN, I. W. Full market price does not make a co-op. *Midwest Wool Growers News* 17(11): 7. Nov. 1948. 45.8 M58

14166 DUNCAN, D. I learn to spin. *Angora Rabbit Mag.* 4(4): 12-13. Nov. 1948. 40.28 An42

14167 EGYPT. MINISTRY OF AGRICULTURE. STATISTICAL SECT. Cotton statistics prepared for the International Cotton Advisory Committee. *Cairo*, 1948. 52 p. 270 Eg922C

14168 EKBERG, L. Payment of flax according to quality judging or according to fiber extracted. (In Swedish.) *Lin, Dansk-Svensk Hørtidsskr.* 1: 73-74. Apr. 1947. 73.18 L63

14169 EKBERG, L. Retting or green scutching of flax? (In Swedish.) *Lin, Dansk-Svensk Hørtidsskr.* 1: 103-105. June 1947. 73.18 L63

14170 ELOD, E., and ZAHN, H. Zur kenntnis der querverbindungen in wolle. *Melliand Textilber.* 29 (1): 17-19. Jan. 1948. 304.8 T312

14171 EMPIRE COTTON GROWING CORPORATION. Report of the twenty-seventh annual general meeting. n. p., 1948. 15 p. 72.9 G79R

14172 FEHRLIN, A. Die schweizerische textil-industrie im jahre 1947. *Textil-Rundschau* 3: 315-317. Sept. 1948. 304.8 T3139

14173 FLETCHER, F. C. Post-war status of silk and the silk industry. *Ward's Nat. Sci. B.* 22(1): 3-4. Sept. 1948. 410 W51

14174 FRANCE. COMMISSARIAT GENERAL DU PLAN DE MODERNISATION ET D'EQUIPEMENT. Rapport définitif d'ensemble de la Commission de Modernisation du Textile. *Paris*, 1948. 132 p. 304.9 F842

14175 FRIEDRICH, A. Aus der praxis der baumwollspinnerei. III-IV. *Textil-Praxis* 2: 295-297, 324-325. Oct.-Nov. 1947. 304.8 T3143

14176 FRISHMAN, D., and others. Reaction between wool and active chlorine. *Indus. & Engin. Chem.* 40: 2280-2284. Ref. Dec. 1948. 381 J825

L. Hornstein, A. L. Smith, and M. Harris, joint authors.



- 14177 FÜLLE, A. Vom aufbau neuer reiss- und zellwollhaltiger gewalkter stoffe. Textil-Praxis 2: 365. Dec. 1947. 304.8 T3143
- 14178 GADKARI, P. D., and AHMAD, N. A note on the prediction of spinning value of Gaorani (Bani) cottons. Indian J. Agr. Sci. 17: 55-57. Feb. 1947. 22 Ag831
- 14179 GEDDES, S. J. The future looks bright for the wool industry. West. Austral. Wheatgrower 17(30): 4. Oct. 7, 1948. 23 W523
- 14180 GIBB, D. B. Yarn and thread manufacture from synthetic fibers on the flax, hemp, and jute equipment. Rayon & Synthetic Textiles 29(12): 51-52. Dec. 1948. 304.8 R21
- 14181 GIBSON, M. The large scale development of the aerated retting process in Great Britain. Soc. Chem. Indus. J. 67: 337-341. Sept. 1948. 382 M31 Flax.
- 14182 GRALEN, N., and OLOFSSON, B. Degradation products of wool. (Sum.) Textile Mfr. 73: 470. Oct. 1947. 304.8 T3126
- 14183 GRALEN, N. Textile research in Sweden. Fibres 9: 420-423. Nov. 1948. 304.8 F16
- 14184 GRANHALL, I. Competition possibilities and quality problems of Swedish fiber plants. (In Swedish.) Lin, Dansk-Svensk Hørtidsskr. 1: 223-233. Dec. 1947. 73.18 L63
- 14185 HALL, A. J. The principles of textile bleaching. II. The bleaching of protein fibres including silk and wool. Fibres 9: 443-444. Nov. 1948. 304.8 F16
- 14186 HARRIS, J. C. Adsorption of surface-active agents by fibers. Textile Res. J. 18: 669-678. Ref. Nov. 1948. 304.8 T293
- 14187 HARTMUS, L. E. Ramie seems on verge of success as new American chemurgic crop. (Sum.) Chemurgic Digest 7(12): 16-17. Dec. 1948. 381 N213Na
- 14188 HAUSTRAE, C. L'industrie textile en 1946 [Belgium]. Louvain. U. Catholique. Inst. de Rech. Econ. et Sociales. B. 13: 345-377. July 1947. 280.9 L92
- 14189 HENDERSON, A. E. Wool in New Zealand. IV-V. Lincoln Col. Rur. Ed. B. 3(8): 2-9; (9): 8-13. Sept.-Oct. 1948. 109 L63R
- IV. Wool manufacture; V. Wool in world trade and wool marketing in New Zealand.
- 14190 HENNING, L. J. Has cotton a place in our agriculture? Farming So. Africa 23: 570-576. Aug. 1948. 24 So842
- 14191 HESS MARTÍNEZ, L. Un poco sobre algodón. Germinal 1(8): 4-5. (To be cont.) Sept. 15, 1948. 8 G312
- 14192 HESSLER, L. E., MEROLA, G. V., and BERKLEY, E. E. Degree of polymerization of cellulose in cotton fibers. Textile Res. J. 18: 628-634. Ref. Oct. 1948. 304.8 T293
- 14193 HESSLER, L. E., SIMPSON, M. E., and BERKLEY, E. E. Degree of polymerization, spiral structure, and strength of cotton fiber. Textile Res. J. 18: 679-683. Ref. Nov. 1948. 304.8 T293
- 14194 HOBSON, B. N. Mohair industry at cross-roads; price instability one of the main causes of steady decline in Angora farming. Farmer's Weekly [Bloemfontein] 76: 52-53. Oct. 13, 1948. 24 F225
- In South Africa.
- 14195 HONEGGER, E., and FEHR, A. Accessory influences on ring spinning of cotton and spun rayon. Textile Mfr. 73(871): 298-299. July 1947. 304.8 T3126
- 14196 HUGO, A. Strange price increase in the wool market. (In Swedish.) Textil och Konfektion 5: 145. 1948. 304.8 J3192
- 14197 HUNTER, W. A., and WATSON, W. H. The ideal cotton spinning mill. Textile Mfr. 73: 494-497. Nov. 1947. 304.8 T3126
- 14198 INDIAN CENTRAL COTTON COMMITTEE. Annual report, 26, 1947. Bombay, 1947. 150 p. 72.9 In233A
- 14199 INDIAN JUTE MILLS ASSOCIATION. Report of the Committee, 1947. Calcutta, 1948. 131 p. 73.39 In25
- 14200 INTERNATIONAL COTTON ADVISORY COMMITTEE. The European recovery program in relation to cotton. Washington, 1948. 11 p. 286.372 In8E
- 14201 JACOBSEN, H. Apparatus for dielectric measurement of the moisture content of flax. (In Danish.) Lin, Dansk-Svensk Hørtidsskr. 1: 195-206. Nov. 1947. 73.18 L63
- 14202 JACOBSEN, H. Determination of fiber content in flax straw. (In Danish.) Lin, Dansk-Svensk Hørtidsskr. 1: 19-47. Mar. 1947. 73.18 L63
- 14203 KELLER, B. Zur förderung des hanfanbaues [Germany]. Landpost 4(9): 2-3. May 10, 1948. 18 L2329
- 14204 KENCHINGTON, K. W. L. The micro-biological deterioration of cellulosic textiles. II. Fibres 9: 433-436. Nov. 1948. 304.8 F16
- 14205 KING, H. E., and MUNRO, J. M. A method of determining hair weight of cotton. Empire Cotton Growing Rev. 25: 271-276. Oct. 1948. 72.8 Em7
- 14206 KING, H. E. Percentage of short hairs as a character of importance in Barbertain cotton samples. Empire Cotton Growing Rev. 25: 277-278. Oct. 1948. 72.8 Em7
- 14207 KIRBY, R. H. Fibres in brushmaking. II. Fibres 9: 427-429. Nov. 1948. 304.8 F16
- 14208 KOTTCAMP, J. P. Report on the ramie industry of Germany. Joint Intel. Objectives Agency. Fiat Final Rpt. 1291, 41 p. Washington, D. C., 1948. 157.8 R29
- 14209 LAIRD, BISSELL & MEEDS. Cotton and other problems. New York, 1948. 4 p. 286.82 L14
- 14210 LANG, W. R. I. The comparative thickness of medullated and non-medullated fibres in Corriedale wool II. The resolving power of the eye and the estimation of wool fibre thickness. Gordon Inst. Technol. Textile Res. and Testing Dept. P. 7, 5 p. July 1947. 304.9 G65
- 14211 LANG, W. R. The crimp-fineness relationship in Australian wool. Gordon Inst. Technol. Textile Res. and Testing Dept. P. 8, 16 p. Ref. July 1947. 304.9 G65
- 14212 LANG, W. R. The dependence of wool quality number on crimp and fineness in Australian wool. Gordon Inst. Technol. Textile Res. and Testing Dept. P. 9, 16 p. July 1947. 304.9 G65
- 14213 LEE, B. Y. Review of China's postwar cotton industry. China Trade Monthly 2: 623-627. (To be cont.) July 1948. 286.8 C44
- 14214 LEVINSTEIN, H. The raw materials of rayon production. (Sum.) Textile Mfr. 73: 469. Oct. 1947. 304.8 T3126
- 14215 LONDON, V. The future of wool. Inst. Bankers' J. 45: 213-214. Oct. 1948. 284.9 In73
- 14216 LONG, W. E. Cottonseed hulls as an insulating material. Tex. Engin. Expt. Sta. Res. Rpt. 2, 12 p. July 1948. 290.9 T31R
- 14217 LUDWIG, K. Über die abfallspinnerei. Textil-Praxis 2: 363-364. Dec. 1947. 304.8 T3143
- 14218 MARSHALL, G. The "Peralta" machine in wollen carding. Textile Mfr. 74: 520-523. Nov. 1948. 304.8 T3126
- 14219 MAUERSBERGER, H. R. Trade practice conference on shrinkage, washability and dimensional control of wool products. Rayon & Synthetic Textiles 29(12): 65-67. Dec. 1948. 304.8 R21
- 14220 MAYNE, J. B. Wool, a commodity review. Rev. Mktg. Agr. Econ. 16: 238-260. June 1948. 286.8 N47M
- 14221 MEEUSE, A. D. J. Geaëerd roten van vlas [Aerated retting of flax]. Netherlands. Vezelinstituut T. N. O. Pam. 8, 8 p. Delft, 1948. 304.9 N382
- 14222 MEYER, W. Rohstoff-fragen der leinenspinne- rel. Textil-Praxis 2: 327-329. Nov. 1947. 304.8 T3143
- 14223 MOOLMAN, J. H. Postwar wool marketing in South Africa. (In Afrikaans.) Georganiseerde Wolboer 1945/46: 97-100. 1947. 45.8 G29
- 14224 MOORADIAN, S., and MILLSON, H. E. Control del pH en la elaboración de la lana. Textiles Panamer. 8(12): 51, 66-69. Dec. 1948. 304.8 T3142
- 14225 MORTON, W. E., and SHAHIN, I. A. H. Production rates in carding "Fibro" on the flat card. Textile Mfr. 73(871): 297. July 1947. 304.8 T3126
- 14226 MURCHISON, C. T. The status of the cotton industry. Cotton-Textile Inst. Proc. 21: 7-9. 1947. 304.9 C82Co
- 14227 NATIONAL COUNCIL OF WOOL SELLING BROKERS OF AUSTRALIA. Wool review 1946-47. Melbourne, 1948. 15 p. 286.85 N216W
- 14228 NATIONAL WOOL WORKERS ASSOCIATION OF SOUTH AFRICA. Report for the period 1.4.1945 to 31.3.1946. (In Afrikaans.) Georganiseerde Wolboer 1945/46: 1-11. 1947. 45.8 G29
- 14229 NORRIS, P. K. The open road for cotton marketing. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 136-138. 1948. 4 C82



- 14230 O'MAHONEY, J. C. The wool industry and the American economy. *Com. & Financ. Chron.* 168: 2191. Nov. 25, 1948. 286.8 C73
- 14231 PERU. MINISTERIO DE AGRICULTURA. DEPARTAMENTO DE ESTADÍSTICA AGROPECUARIA. Estadística de la producción de algodón en el Perú correspondiente a los años 1944, 1945 y 1946. Lima, 1948. 90 p. 255.8 Ag8Eag
- 14232 PHILLIPS, J. K. A modification of the flat-bundle test method for testing cotton-fiber strength. *Textile Res. J.* 18: 684-686. Nov. 1948. 304.8 T293
- 14233 PODAR, S. R. A. The silk industry of India. *Indian Textile J.* 58: 1090-1094, 1097. Sept. 1948. 304.8 In2
- 14234 RAUTENSTENGEL, K. Die bedeutung des stapeldiagramms für das manipulieren und verspinnen von spinnpartien mit reissfasernbeimischung. *Textil-Praxis* 3: 260-262. Sept. 1948. 304.8 T3143
- 14235 ROSSI, C. On the production and world distribution of wool, and on the relation between the Merino and the cross-bred. (In Italian.) *Laniera* 62: 291-295. June 1948. 45.8 B63
- 14236 SAHA, N. N. Soda cellulose from jute fibre. *Sci. and Cult.* 14: 123-124. Sept. 1948. 475 Sci24
- 14237 SAMSON, A. O. Cotton pressing in Egypt: modern protection against fire. *Egypt. Cotton Gaz.* 5: 25-30. Sept. 1948. 72.8 Eg9
- 14238 SARAIYA, R. G. Indian Central Cotton Committee, its past performance and future needs. *Indian Textile J.* 58: 1122-1124. Sept. 1948. 304.8 In2
- 14239 SCHOFFELMAYER, V. Teamwork responsible for astonishing success and significant growth of San Joaquin valley's cotton empire. *Cotton Trade J.* 29(47): 8. Nov. 19, 1948. 72.8 C8214
- 14240 SCOTT, W. M. Some recent developments in cotton research at the Southern Regional Research Laboratory. *U. S. Bur. Agr. and Indus. Chem. AIC-215*, 11 p. Nov. 16, 1948. 1.932 A2Ag82
- 14241 SEN, K. R. The elastic properties of single jute filaments. *Textile Inst. J.* 39: T339-T350. Oct. 1948. 73.9 T31
- 14242 SERVICIO COOPERATIVO INTER-AMERICANO DE PRODUCCION DE ALIMENTOS. Valor de la torta de semilla de algodón; análisis económico de su uso como fertilizante, alimento del ganado, y producto de exportación, by L. H. Rhodes and R. Guerinoni. Lima, Perú, 1948. 9 p. 309 Se6
- 14243 SHEARD, G. E. Yarn reeling in worsted spinning. *Textile Mfr.* 73(868): 159-160, 176. Apr. 1947. 304.8 T3126
- 14244 SILEN, G. To determine alkali injuries to wool. (In Swedish.) *Textil och Konfektion* 5: 198-201. 1948. 304.8 J3192
- 14245 SIRCAR, J. K. Memorandum on fibres other than cotton and jute. *India. Council Agr. Res. Misc. B.* 66, 59 p. Ref. 1948. 22 Im7M
- 14246 SLOAN, G. A. Cotton industry achievements. *Cotton-Textile Inst. Proc.* 21: 19-20. 1947. 304.9 C82Co
- 14247 SOUTH AFRICAN WOOL BOARD. Report for the period 1.4.45 to 31.3.46. (In Afrikaans.) *Georganiseerde Wolboer* 1945/46: 12-41. 1947. 45.8 G29
- 14248 SPEAKMAN, J. B. The production, properties and uses of seaweed rayon. (Sum.) *Textile Mfr.* 73: 468-469. Oct. 1947. 304.8 T3126
- 14249 SPENCER-SMITH, J. L. Estimation of fibre quality. *Textile Mfr.* 73(871): 299-300. July 1947. 304.8 T3126
- 14250 STOECKHERT, K. Die verwendung von kunststoffen in der kunstfaser- und textilindustrie. *Melliand Textilber.* 29(1): 29-32. Jan. 1948. 304.8 T312
- 14251 STOVES, J. L. Some histological and physico-chemical properties of keratin fibres. (Sum.) *Textile Mfr.* 73: 468. Oct. 1947. 304.8 T3126
- 14252 STROMAN, G. N. A laboratory mechanical cotton comb. *Amer. Soc. Agron. J.* 40: 1043-1044. Nov. 1948. 4 Am34P
- 14253 SWARTTOUW, C. N. F. De textielvoorziening van Nederland gedurende den bezettingstijd, 1940-1945 [Textile supply of the Netherlands during the occupation period, 1940-1945]. Amsterdam, Paris, 1947. 576 p. 304 Sw2
- 14254 TEXTILE RECORDER. Book of the year, 1947-1948. London, Harlequin Press, 1948. 234 p. 304.9 T314
- 14255 THONI, K. Flockenbast. VIII. *Textil-Praxis* 2: 303-304. Oct. 1947. 304.8 T3143
- 14256 TINCKER, M. A. H. Structure of cell walls. *Fibres* 9: 417-419. Nov. 1948. 304.8 F16
- 14257 TRAILL, D. Protein synthetic fibres. (Sum.) *Textile Mfr.* 73: 468. Oct. 1947. 304.8 T3126
- 14258 TURNER, A. J. Flax utilisation. *Textile Mfr.* 73(868): 162-163, 165. Apr. 1947. 304.8 T3126
- 14259 VARGA, A. Is indiscriminate high production desirable in woollen carding? *Textile Mfr.* 73: 504-505. Nov. 1947. 304.8 T3126
- 14260 VIDAL FERNÁNDEZ, B. Blanqueo del lino. *Ceres [Valladolid]* 13(147): 9. Sept. 1, 1948. 15 C33
- 14261 VIVANCOS GUERAO, I. Murcia productora de algodón; campaña algodonera del año 1.948. IV. Murcia. Spain. *Cám. Ofic. Agr. B.* 71/72: 3-4. Sept./Oct. 1948. 16 M93
- 14262 WAGNER, E. Mechanisch-technologische textilprüfungen. VII. *Textil-Praxis* 2: 355-359. Dec. 1947. 304.8 T3143
- 14263 WALDO, W. G. El ramio y sus productos. *Hacienda* 43(12): 41-43. Dec. 1948. 6 H11
- 14264 WASSERMANN, A., and MONGAR, J. L. Ionic exchange and fibre contraction. (Sum.) *Textile Mfr.* 73: 469. Oct. 1947. 304.8 T3126
- 14265 WATKINS, J. M., and ALLWOOD, E. Retting of kenaf, *Hibiscus cannabinus* L. *Amer. Soc. Agron. J.* 40: 997-1004. Nov. 1948. 4 Am34P
- 14266 WATKINS, T. D., JR. Fleece value increases with staple length. *Sheep and Goat Raiser* 28(12): 14-15. Sept. 1948. 45.8 Sh3
- 14267 WELLS, P. A. Wool marketing organization. *Textile Weekly* 42: 1032, 1034, 1036. Nov. 5, 1948. 304.8 T3127
- 14268 WESTENBERG, W. H. Iets over de theorie en de practijk van het spinnen [On the theory and practice of spinning]. *Netherlands. Vezelinst. T. N. O. Pam.* 2, 11 p. 1947. 304.9 N382
- Summary in English and French.
- 14269 WILLATT, N. Fiber identification. *Textile Age* 12(10): 78, 80-84. Oct. 1948. 304.8 T3132
- Tests.
- 14270 WINDEL, D. Prospects for the 1948-49 cotton season. *Egypt. Cotton Gaz.* 5: 1-4. Sept. 1948. 72.8 Eg9
- 14271 WRIGHT, R. W., and BREARLEY, A. Recent trends in woollen carding. *Textile Mfr.* 73(871): 300, 302. July 1947. 304.8 T3126

## FRUITS, VEGETABLES, AND NUTS

- 14272 AASVEJEN, H. Can Nordland grow enough berries, fruit and vegetables for home consumption? (In Norwegian.) *Norsk Hagetidend* 64: 216-220. Nov. 1/15, 1948. 80 N81
- 14273 ALCORN, G. B. The walnut situation, 1948. *Calif. Agr. Expt. Sta. C.* 386, 20 p. Sept. 1948. 100 C125
- 14274 ANDRADE, H. R. DE. Economic aspects of fruit culture in Brazil, State of Ceará. (In Portuguese.) *Brazil. Serv. de Econ. Rur. B.* 4/5(6/7): 33-36. Jan. 1946/Dec. 1947. 281.9 B73B
- 14275 ANTONIANI, C. Fruit juices. (In Italian.) *Italia Agr.* 85: 533-534. Sept. 1948. 16 It1
- 14276 BAGENAL, N. B. Scottish strawberry landmarks. *Grower* 30: 619. Oct. 16, 1948. 286.83 M34
- England.
- 14277 BALDRATI, I. The banana in Sicily and Calabria. (In Italian.) *Italia Agr.* 85: 530-532. Sept. 1948. 16 It1
- 14278 BARRAZA Q., O. Cultivo del pimentón en Ovalle e Illapel. *Agr. del Norte* 38: 45-46. Mar. 1948. 9.3 So14
- 14279 BENDER, E. K. Preparation of vegetables for exhibit. *Md. Agr. Col. Ext. Hort. Ext. Mimeog.* 30, 4 p. Dec. 1947. 275.29 M36Em
- 14280 BERTOLINI, DE. Call to fruit producers for protection of general interests of producers and production. (In Italian.) *Agr. Trentina* 3(17): 2. Sept. 1, 1948. 16 Ag8263
- 14281 BONDAR, G. Cola nut in Brazil. (In Portuguese.) *Chacaras e Quintais* 78: 430. Oct. 15, 1948. 9.2 C34



- 14282 CAMERON, G., and MOONEY, W. F. Market gardening. *Northeast* 1948: 23-24. Summer 1948. 284.28 N81  
The industry.
- 14283 CANADA. DEPT. OF AGRICULTURE. FRUIT AND VEGETABLE PRODUCTS RESEARCH COMMITTEE. Annual report, 1947. Ottawa? 1948. various paging. 389.9 C169
- 14284 CLAPP, R. L. Potatoes. *Farm Bur. Mass.* 1948: 10-11. Nov. 1948. 275.293 Mass.  
The crop in Maine.
- 14285 CLEVENGER, M. A. Grower-canner teamwork pays off. *Calif. Fruit & Grape Grower* 2(9): 7-8. Sept. 1948. 95.8 G762
- 14286 COLLINS, J. H. A Western Grower survey: round the calendar with western vegetables. *West. Grower & Shipper* 19(12): 90-91, 163-164, 184, 188, 190, 192, 194. Nov. 1948. 280.38 W52
- 14287 COREY, M. L. What are the conditions in citrus? Why? Can the industry be saved? How? *Citrus Indus.* 29(12): 5-7. Dec. 1948. 80 C49
- 14288 COSTA, J. Economic aspects of national fruit culture (Alagôas, Sergipe and Paraíba). (In Portuguese.) *Brazil. Serv. de Econ. Rur. B.* 4/5(6/7): 41-47. Jan. 1946/Dec. 1947. 281.9 B73B
- 14289 CROSBY, J. Avocado future looks good. *Calif. Farmer, South. Ed.* 189: 382. Nov. 6, 1948. 6 C126A
- 14290 CROSBY, J. New bulk-lima plant makes fine start. *Calif. Farmer, South. Ed.* 189: 470-471. Dec. 4, 1948. 6 C126A  
Ventura County's warehouse and cleaning plant.
- 14291 CUNNINGHAM, H. E. Spud shipments during August establish new exchange record. *Colo. Potato Grower* 26(3): 1, 4. Sept. 1948. 75.8 C71
- 14292 DAY, L. Cranberries. *Northeast* 1948: 12-13. Summer 1948. 284.28 N81
- 14293 DEMESMAY, H. La production. *Pomme de Terre Franç.* 11(111): 3-6. Nov. 1948. 75.8 P77
- 14294 DORSEY, M. J. Present-day trends which affect horticulture. *Kans. State Hort. Soc. Bien. Rpt.* 49: 91-94. 1948. 81 K13
- 14295 ESBO, H. Seed potatoes in Holland. (In Swedish.) *Lantmannen* 32: 161-162. Mar. 6, 1948. 11 L234
- 14296 EUSTACE, H. J. The Washington apple industry—can it be expanded? *Pacific Northwest Indus.* 8(2): 24-27. Nov. 1948. 280.8 N812
- 14297 FABIANI, L. First report on the seed potato campaign (Ce. Mo. Pa.) 1948 in the province of Como. (In Italian.) *Campagna* 47: 210-212. Aug. 15/Sept. 1, 1948. 16 C152
- 14298 FERLENIUS, G. R. The fruit growers are organizing. (In Swedish.) *Sveriges Pomol. För. Fruktodlaren* 1948: 18. 86 Sv2F
- 14299 FRAYSSE, L. La fraise du Lot. *Paysan du Sud-Ouest* 3(119): 1. Mar. 20, 1947. 14 P292
- 14300 FRIESE-FICKENSCHER, L. Der apfel hilft uns überall. *Neue Mitt. f. die Landw.* 3: 399-400. Nov. 15, 1948. 18 N39
- 14301 GARBIN, G. Let us save our fruit-producing heritage. (In Italian.) *Gaz. Agr. [Padova]* 26(3/4): 1. Jan. 31, 1947. 16 G254
- 14302 GERALD, S. Yams for the cowboys. *Farm & Ranch* 67(12): 6, 8-9. Dec. 1948. 6 T31  
The industry in Portales Valley, New Mexico.
- 14303 GONZÁLEZ MADARIAGA, E. La vulgar papa. *Agr. del Norte* 38: 60-61. Mar. 1948. 9.3 So14
- 14304 GRIESBECK. Denkt jetzt and die saatkartoffeln für 1949! *Landw. Wchnbl.* 138: 287. Oct. 2, 1948. 18 L2338  
Germany.
- 14305 GUYOT, H. Pineapple industry in Martinique recovers from the war. *Caribbean Comn. Monthly B.* 1(12): 19-20, 22. July 1948. 280.9 C19
- 14306 GUZZINI, D. Shadows on fruit and vegetable culture. (In Italian.) *Gior. di Agr.* 58: 293. Oct. 24, 1948. 16 It1G
- 14307 GUZZINI, D. Sicilian citrus culture: the lemon products crisis. (In Italian.) *Gior. di Agr.* 57: 94. Apr. 20, 1947. 16 It1G
- 14308 HART, L. R. It's about time we got together! *Calif. Fruit & Grape Grower* 2(11): 23. Nov. 1948. 95.8 G762  
California apple industry.
- 14309 HAUCK. Pflanzkartoffelernte 1948. *Bad. Landw. Wchnbl.* 3: 139. Sept. 1948. 18 B142
- 14310 HAVIGHORST, C. R. Control of quality and cost begins in the field; first of two revealing articles on the Hawaiian Pineapple Co. *Food Indus.* 20: 1725-1730, 1864-1866. Dec. 1948. 389.8 F737
- 14311 HEGDAL, L. Onion culture - onion import. (In Norwegian.) *Norsk Hagetidend* 64: 192-193. Oct. 1/15, 1948. 80 N81
- 14312 HIEMELEERS, J. Fruit culture in Western United States. (In Flemish.) *Tuinbouwberichten* 12: 157-158. Oct. 15, 1948. 80 T817
- 14313 HYLMO, B. Agriculture and the canning industry. (In Swedish.) *Sveriges Pomol. För. Årsskr.* 1947: 81-86. 86 Sv2  
Fruit and vegetable production.
- 14314 JOHNSON, L. H. The Utah apple story—it is not all sweet and rosy—increased production costs, consumer choice, and dealer mark-up make many headaches for growers. *Utah Farmer* 68(8): 3. Nov. 25, 1948. 6 D45
- 14315 KIDSON, A. L. The boom in copra. *Food Manufacture* 23: 509-511. Nov. 1, 1948. 389.8 F736
- 14316 KINNUNEN, E. J. The potato crop and its distribution; abundant potato crop even in Finland. (In Swedish.) *Norsk Landbr.* 14: 411-412. Nov. 12, 1948. 11 N8122
- 14317 KITCHIN-KERR, G. E. Australian citrus industry. *Fruit World Ann.* 1947: 61, 63, 65. Jan. 1947. 80 F948
- 14318 KOHL, R. B., and PETTENGILL, J. C. Quality fruit. *Northeast* 1948: 18-19. Summer 1948. 284.28 N81
- 14319 KRIMBAS. Les raisins de cuve [Greece]. *Off. Internatl. du Vin. B.* 21(211): 37. Sept. 1948. 390.8 B87
- 14320 KRONE, B. P. The tomato industry in Victoria. *Fruit World Ann.* 1947: 69, 71. Jan. 1947. 80 F948
- 14321 LEE, I. M. Early potatoes; California situation, 1948. *Calif. Agr. [Calif. Sta.]* 2(11): 2. Nov. 1948. 100 C12Cag
- 14322 LORING, A. B. Blueberries. *Northeast* 1948: 19-20. Summer 1948. 284.28 N81
- 14323 LUGAN, M. Les vendanges de 1948. *Journée Vinic. Export* 22(13): 3. Oct. 1948. 390.8 J82  
Text in French and English.
- 14324 MCINTIRE, C. Aroostook, the home of potatoes. *Northeast* 1948: 14-15. Summer 1948. 284.28 N81
- 14325 MERCHANT, C. H. A look at the future of commodity research in New England: potatoes. *New England. Res. Council Mktg. and Food Supply. Proc.* 1948: 54-55. 252.004 N443M
- 14326 MILLER, A. J. Apples—"king of fruits." *Fruit & Veg. Rev.* 9(8): 13. Nov. 1948. 80 C1224
- 14327 MIMS, S. Over-all picture in Louisiana. *Sweet Potato J.* 3(4/6): 14-15. Apr./June 1948. 80 Sw32
- 14328 MOEGLING. Pflanzkartoffelsorgen 1948/49. *Württemberg. Wchnbl. f. Landw.* 115: 279-280. Oct. 9, 1948. 18 W96
- 14329 MONTENEGRO L., G. E. Un producto ecuatoriano notable: los dorados frutos de la naranjilla. *Manabí. Consorcio de Cent. Agr. B.* 55: 27-32. July/Sept. 1948. 9.5 M31
- 14330 OPASI COUSIÑO, V. Desde mi cargo de ministro me interese porque en el gobierno se comprenda la verdadera situación de la industria. *Campesino [Santiago]* 80(8): 21-22. Aug. 1948. 9.3 So12  
The Chilean grape industry.
- 14331 PURINGTON, D. V. New developments in yam research. *Farm & Ranch* 67(11): 12, 14. Nov. 1948. 6 T31
- 14332 RICE, W. S. Field demand active for large, good quality prunes as large proportion of small, off-grade fruit is evident. *Sunsweet Standard* 32(6): 4-5. Nov. 1948. 286.83 Su7
- 14333 RICHAUD, M. L'avenir de la culture des artichauts. *Reveil Agr.* 57: 305. Oct. 15, 1948. 14 R322
- 14334 ROLLINS, H. A. More dollars from fruit. *Rural New-Yorker* 98: 730, 734. Dec. 4, 1948. 6 R88



14335 SOBOLEV, N. K. State farms of Massandra Wine Combine in 1947. (In Russian.) Vinodel. i Vinograd. SSSR. 8(4): 40-43. Apr. 1948. 95.8 V77  
Achievements in grape culture.

14336 TEUTSCH, W. L. They don't handle spuds in Maine as they do in Idaho. Idaho Farmer 66: 825. Nov. 18, 1948. 6 G282

14337 U. S. EASTERN REGIONAL RESEARCH LABORATORY. References on potato chips. U. S. Bur. Agr. and Indus. Chem. CA-3, 1 p. June 1948. 1.932 A2C42

14338 UPSIDE-down fruit from the garden of Middle America. Dow Diamond 2(5): 11-15. Sept. 1948. 381 D752

14339 VIDAL MORA, J. M. El boniato; su importancia en el agro menorquín. Balearic Isl. Diputación Prov. B. de Agr. 45: 11-12. June 1948. 15 B19

14340 WATHEN-FOX, M. New Brunswick's multi-million crop. Farmer's Mag. 54(11): 47-48. Nov. 1948. 7 C165

Potato industry.

14341 WHITMAN, E. S. King of the golden fruit; portrait of a great banana pioneer in Honduras. II. Pan American 9(6): 24-28. Nov. 1948. 280.8 P192

14342 WILLSON, H. F. Summary of last season: demand for fresh citrus declines, while more than half of the Florida crop is processed. Citrus [Tampa] 11(2): 10-11. Oct. 1948. 80 C498

#### Analysis and Composition

14343 CURL, A. L. Gas formation in concentrated orange juices and analogous synthetic mixtures. Food Res. 13: 381-386. Sept./Oct. 1948. 389.8 F7322

14344 DEEDS, F., and COUCH, J. F. Rutin in green asparagus. Food Res. 13: 378-380. Sept./Oct. 1948. 389.8 F7322

14345 EISENBERG, W. V., and TILLSON, A. H. Mold mycelia count method for cranberry sauce. Assoc. Off. Agr. Chem. J. 31: 783-786. Nov. 15, 1948. 381 As7

14346 HELFERICH, B., and STETTER, H. Zur Kenntnis der kartoffel-phosphatase. Justus Liebig's Ann. der Chem. 558: 234-241. 1947. 384 An7

14347 KILBUCK, J. H. Observations on prune juice. Fruit Prod. J. & Amer. Food Mfr. 28: 68-69, 91. Ref. Nov. 1948. 389.8 F94

14348 KRAMER, A. Measuring quality by objective methods. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 78-90. Ref. 1948. 81 V52

14349 KRAMER, A., GUYER, R. B., and SMITH, H. R. A rapid objective method for measuring the color of raw and canned tomatoes. Amer. Soc. Hort. Sci. Proc. 51: 381-389. June 1948. 81 So12

14350 KRAMER, A., and HAUT, I. C. Ripeness and color studies with raw and canned peaches. Amer. Soc. Hort. Sci. Proc. 51: 219-224. Ref. June 1948. 81 So12

14351 LUBATTI, O. F., and SMITH, B. Determination of fumigants. XX. Sorption of methyl bromide by potatoes. Soc. Chem. Indus. J. 67: 347-354. Ref. Sept. 1948. 382 M31

14352 MEYER, K. H., and RATHGEB, P. Recherches sur l'amidon, 40. L'amylose de pomme de terre. Helvet. Chim. Acta 31: 1533-1536. Oct. 15, 1948. 385 H36

14353 SAHM, U. Der zuckergehalt hochgezüchteter Kürbissorten. Deut. Landw. 2: 87-88. June 1948. 18 D485

14354 WILLIGEN, A. H. DE, and GROOT, P. W. DE. Method of estimating potash content of potatoes through conductivity test. (In Dutch.) Landbouwk. Tijdschr. 59: 227-228. June/July 1947. 105.2 Or3

14355 WILSON, C. M., and TANNER, F. W. Microbiology of canned corn and peas. Food Res. 13: 365-377. Ref. Sept./Oct. 1948. 389.8 F7322

14356 WINKLER, W. O. Determination of 2-aminopyridine in oranges. Assoc. Off. Agr. Chem. J. 31: 760-769. Nov. 15, 1948. 381 As7

#### Consumption and Utilization

14357 BENDA, H. Über die rostkastaniennutzung. Natur u. Nahr. Ausg. B 2(15/16): 77-78. Aug. 1948. 80 N218B

14358 CRUESS, W. V. Prune products; improved processing and new uses developed by research. Calif. Agr. [Calif. Sta.] 2(11): 12. Nov. 1948. 100 C12Cag

14359 DENMAN, C. B. What are consumers demanding in the way of vegetables. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 42-46. 1948. 81 V52

14360 ESKEW, R. K. European methods for the utilization of potato starch factory wastes. Amer. Potato J. 25: 409-412. Nov. 1948. 75.8 P842

14361 KINNUNEN, E. J. Finland also has a big potato crop. (In Danish.) Dansk Landbr. 67: 404-405. Oct. 21, 1948. 280.28 V91  
Chiefly on utilization.

14362 MUIR, J. Potato surplus made available for livestock feed. West. Livestock Rptr. 11: 16. Nov. 3, 1948. 286.85 W523

14363 SILVEIRA, A. H. DA. Jaca and its uses. (In Portuguese.) Chacaras e Quintais 78: 474. Oct. 15, 1948. 9.2 C34

Artocarpus heterophyllus.

14364 U. S. EASTERN REGIONAL RESEARCH LABORATORY. Utilization of white potatoes. Wyndmoor, Pa. 1948? Chart. 1.9321 E2Ut3

14365 WILLAMAN, J. J., and ESKEW, R. K. Preparation and use of leaf meals from vegetable wastes. U. S. D. A. Tech. B. 958, 102 p. Ref. Oct. 1948. 1 Ag84Te

#### Distribution, Marketing, and Transportation

14366 BENZIES, W. Wartime fruit marketing. Orchardist New Zeal. 21(7): 14-20. Oct. 5, 1948. 50 Or19

14367 BERARDO. L'écoulement des produits de la région du Roussillon. Cong. Pomol. de France. Sess. 78: 158-168. 1947. 93.09 C7643

14368 BERRY, J. B. Lots of hidden possibilities in cabbage, produce feature of the month! Fresh Fruit & Veg. Merchandising 2(6): 6-7. Nov. 1948. 286.28 F89

14369 CASPAR, J. P. The Maryland Apple Merchandising Law. Md. State Hort. Soc. Proc. 50: 12-13. 1948. 81 M36

14370 CRAWFORD, J. J. Experiments in packaging and marketing sweet corn. Pre-Pack-Age 2(2): 26-28; (3): 26, 28-30. Oct.-Nov. 1948. 280.38 P91

14371 CRUESS, W. V. Processing industry provides year-around markets and is a large outlet for many fruits. Amer. Fruit Grower 68(12): 11, 29, 35. Dec. 1948. 80 G85

14372 DAY, W. C. Gift packages: a coming market. Calif. Fruit & Grape Grower 2(10): 25. Oct. 1948. 95.8 G762

14373 DEMESMAY, H. L'intermédiaire. Pomme de Terre Franç. 11(105): 6-8. May 1948. 75.8 P77

14374 DICKMAN, P. B. Problems of getting better marketing practice adopted. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 98-102. 1948. 81 V52

14375 DONALDSON, R. B., and POORBAUGH, H. J. Marketing strawberries co-operatively. Pa. Farm Econ. 32: 1-2. Sept. 1948. 275.29 P382Pf

14376 EDINGER, W. J. Don't sign that open price contract. Calif. Fruit & Grape Grower 2(10): 26. Oct. 1948. 95.8 G762

14377 ETCHEPARE, A. L'évolution de la culture, l'hygiène et la présentation des fruits et légumes. Fructidor 14(31): 1-2. (To be cont.) Nov. 5, 1948. 286.83 F9423

14378 FRECON, R. H. Growers' cooperation in marketing their apple crop. Md. State Hort. Soc. Proc. 50: 36-38. 1948. 81 M36

14379 GOLDSBOROUGH, G. H. Selling Irish potatoes at a profit. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 129-130. 1948. 4 C82

14380 HANSEN, F. K. On potatoes. (In Danish.) Dansk Landbr. 67: 436. Nov. 11, 1948. 280.28 V91  
Marketing and prices.

14381 HARTMAN, A. J. Fifty years horticulture; organization and development of the vegetable and fruit auctions during the reign of her majesty Queen Wilhelmina. (In Dutch.) Groenten en Fruit 4: 125-126. Sept. 2, 1948. 30 G89

14382 HOECKER, R. W. Current research on the marketing of vegetables. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 160, 162, 164-168. 1948. 81 V52

14383 JONES, L. C. Tomato Growers' Ass'n. work on marketing problems. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 125-130. 1948. 81 V52

14384 MACDERMOTT, P. S. Sydney fruit and vegetable markets. Fruit World Ann. 1947: 72. Jan. 1947. 80 F948



- 14385 MEISTER, R. T. Helping the retailer to merchandise fruits. *Amer. Fruit Grower* 68(11): 12, 27, 29. Nov. 1948. 80 G85
- 14386 MOLLOY, J. J. Boston market center. *Fruit & Veg. Rev.* 9(8): 16-17, 35. Nov. 1948. 80 C1224
- 14387 MOORE, W. J. More produce can be sold in the summer. *Independ. Grocergram* 22(8): 18-21. Aug. 1948. 286.28 In2
- 14388 MURPHY, R. The future of potato marketing. *Tasmanian Fruitgrower & Farmer* 24(302, i. e., 303): 24. Sept. 1948. 23 T185
- 14389 NOLD, T. H. How big is the apple promotion job? *Md. State Hort. Soc. Proc.* 50: 35-36. 1948. 81 M36
- 14390 REICH, W. A. Markets of tomorrow. *West. Grower & Shipper* 19(12): 101, 204. Nov. 1948. 280.38 W52
- Fruit and vegetables.
- 14391 ROBINSON, R. D. An energetic program for stepping up sales of Florida citrus juices. *Amer. Fruit Grower* 68(12): 16, 35. Dec. 1948. 80 G85
- 14392 SCHOOLCRAFT, C. D. The Fruit and Vegetable Market News Service [of the U. S. Department of Agriculture]. For Sale, Want & Exch. B. 11(1): 1. Oct. 15, 1948. 280.38 F74
- 14393 SHEINMAN, V. I. *Frukty i iagody* [Fruits and berries]. Moskva, Gostorgizdat, 1948. 70 p. 286.2 Sh4
- Chiefly marketing.
- 14394 SIMS, H. M. New developments in rail service. *Fruit & Veg. Rev.* 9(9): 20-21. Dec. 1948. 80 C1224
- 14395 STRATFORD, M. O. Idaho potatoes and onions. *Fruit & Veg. Rev.* 9(9): 15, 26. Dec. 1948. 80 C1224
- Marketing.
- 14396 STUDDT, W. B. Emperor [grape] deal—referendum coming up. *Calif. Fruit & Grape Grower* 2(11): 11. Nov. 1948. 95.8 G762
- 14397 TAYLOR, P. R. To maintain prices and profits demand and production must be kept in step. *Fruit & Veg. Rev.* 9(8): 20-21. Nov. 1948. 80 C1224
- 14398 THOMSEN, F. L. New developments in vegetable marketing. *Veg. Growers Assoc. Amer. Ann. Rpt.* 40: 91-97. 1948. 81 V52
- 14399 ULSTER FARMERS' UNION. POTATO COMMITTEE. Marketing of Ulster seed potatoes; report of U. F. U. Farmers' J. 29: 62, 64. Oct. 1948. 10 F2234
- 14400 VERT, H. Les marques d'origine. *Fructidor* 14(31): 2. Nov. 5, 1948. 286.83 F9423
- 14401 WILLAMAN, J. J. Why aren't we selling more apple juice? *Amer. Fruit Grower* 68(12): 17, 32. Dec. 1948. 80 G85
- 14402 YECKES, M. Better distribution. *West. Grower & Shipper* 19(12): 109, 200, 205. Nov. 1948. 280.38 W52
- Fruit and vegetables.
- Grading, Inspection, Standardization, and Quality
- 14403 BHAT, J. V., and RAGHUNATH, M. Water-melon and food-poisoning. 2. The viability of the test bacteria in the juice. *Cur. Sci.* 17: 264-265. Sept. 1948. 475 Sci23
- 14404 DAVIS, L. L. Benzene hexachloride in canned peaches. *Food Technol.* 2: 303-307. Oct. 1948. 389.8 F7398
- 14405 HOLMSTRÖM, S. Quality potatoes. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland* 18(28): 10. July 10, 1948. 11 J762
- New proposal for the standardization of Swedish potatoes.
- 14406 IGNATIUS, J. G. W. Apple quality and its effect on price and sale. (In Dutch.) *Tuinbouw* 3: 69-70, 76. Mar. 1948. 80 T815
- 14407 KRAMER, A. Relation of yield to quality in the production of vegetables for canning. *Peninsula Hort. Soc. Trans.* 61: 38-43. 1947. 81 P37
- 14408 LAMMERS, R. P. Quality problems with regard to consumer leguminous crops. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 34-35. Jan./Feb. 1948. 105.2 Or3
- 14409 MACKINNEY, G. Color retention; pigmentation in processed fruits and vegetables is complex problem. *Calif. Agr. [Calif. Sta.]* 2(12): 4, 12. Dec. 1948. 100 C12Cag
- 14410 MEYER, P. Sur les avantages d'une présentation standard. *Paysan du Sud-Ouest* 3(119): 1. Mar. 20, 1947. 14 P292
- Vegetables.
- 14411 MOORE, E. L., and others. Standardization of canned citrus juice by the use of partial concentration. *Citrus Indus.* 30: 8-9. Jan. 1949. 80 C49
- C. D. Atkins, L. G. MacDowell, and R. L. Huggart, joint authors.
- 14412 MORSE, R. E., FELLERS, C. R., and LEVINE, A. S. The toxicity of certain organic acids to yeast and mold in the presence of fruit juice-syrup mixtures. *J. Milk & Food Technol.* 11: 346-351. Ref. Nov./Dec. 1948. 44.8 J824
- 14413 PARKS, T. H. It takes clean fruit [apples] to make Ohio "honor club." *Ohio Farmer* 202(9): 14-15. Nov. 6, 1948. 6 Oh3
- 14414 PEDERSON, C. S., and BECKER, M. E. Flat sour spoilage of tomato juice. (Abs.) *Canner* 107(23): 16. Dec. 4, 1948. 286.83 C16
- 14415 SMITHMEYER, J. E. Dryland prairie grows super seed spuds. *Idaho Farmer* 66: 791, 801. Nov. 4, 1948. 6 G282
- Certified seed potatoes in Idaho.
- 14416 STROHMAIER, L. H. Processed apricots; frozen, dehydrated and canned products studied for effects on skin texture. *Calif. Agr. [Calif. Sta.]* 2(12): 10. Dec. 1948. 100 C12Cag
- 14417 THYM, A. M., and SMITH, R. J. Mechanized sampling; accurate description of growers' products by marketing and processing organizations possible. *Calif. Agr. [Calif. Sta.]* 2(10): 8, 14. Oct. 1948. 100 C12Cag
- Grading fruit.
- 14418 WOLFENRARGER, D. O., and DECKER, P. Off-flavor of potato tubers produced by benzene hexachloride used for wireworm control. *Amer. Potato J.* 25: 413-417. Nov. 1948. 75.8 P842
- Packing and Packaging
- 14419 COVINGTON, E. G. Nailed box and shook industry. *Fruit & Veg. Rev.* 9(9): 16, 25. Dec. 1948. 80 C1224
- 14420 HARRIS, W. H. Packing apples in the Australian dump case. *Fruit World Ann.* 1947: 67. Jan. 1947. 80 F948
- 14421 HARRIS, W. H. Packing oranges in the Australian dump case. *Fruit World Ann.* 1947: 65. Jan. 1947. 80 F948
- 14422 LEBEAU, O. R. Co-ops keep eye on prepackaging. *News Farmer Coops.* 15(9): 12-15. Dec. 1948. 166.2 N47
- Fruits and vegetables.
- 14423 LEBEAU, O. R. Prepackaging fruits and vegetables by cooperatives. *U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt.* 126, 20 p. Oct. 1948. 166.3 M68
- 14424 LOUCKS, K. W., and HOPKINS, E. F. Commercial packinghouse operations in relation to decay in citrus fruits. *Citrus Indus.* 30: 5-7, 9. Jan. 1949. 80 C49
- 14425 MAINE potato empire makes wide use of prepackaging. *Pre-Pack-Age* 2(3): 5-6. Nov. 1948. 280.38 P91
- First of two articles.
- 14426 MALLISON, E. D. More about prepackaging [apples]. *East. Fruit Grower* 11(10): 13-14. Dec. 1948. 80 Ea73
- 14427 MARKSTEIN, D. Banana packing begun in Louisiana. *Frozen Food Indus.* 4(11): 6-7, 15. Nov. 1948. 389.8 F93
- 14428 MAXTON, J. L. Advantages and problems of fruit and vegetable packaging. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 135-136. 1948. 4 C82
- 14429 SMEDT, A. DE. Standardization of packaging material. (In Flemish.) *Tuinbouwberichten* 12: 39-40. Mar. 15, 1948. 80 T817
- Fruit and vegetables.
- Prices, Price Control, and Rationing
- 14430 CANADA. MARKETING SERVICE. MARKETS INFORMATION SECTION. Seasonal price summaries, fresh fruits and vegetables on 12 Canadian markets, for cabbage, celery, beets, carrots, parsnips, onions, turnips, potatoes, apples and B. C. pears, v. 1, pt. 2, 1947-48. Ottawa, 1948. 23 p. 284.39 C162Sp
- 14431 GENTILE, G. Expensive fruit due to retail. (In Italian.) *Mezzogiorno Agr.* 4(39): 3. Oct. 16, 1948. 16 M57
- 14432 KELL, J. L'index des prix des fruits. *Rev. de l'Agr.* 1: 578-582. July/Aug. 1948. 13 R322



14433 OLST, H. R. VAN., and IGNATIUS, J. G. W. The price formation of strawberries. (In Dutch.) Netherlands. Cent. Bur. voor de Statist. Statist. en Economet. Onderzoek. 3: 84-91. Sept. 1948. 280.9 N382S

English summary.

14434 RUSSELL, J. S. The great potato fiasco. Iowa Farm & Home Register 1948: 3-H. Oct. 1948. 6 Io94

Government price support program.

14435 SMEENK, H. Regulation of seed potato prices. (In Dutch.) Boer en Tuinder 2(94): 1. Oct. 23, 1948. 12 B632

14436 VAIL, B. Hottest produce question. Iowa Food Dealer 17(3): 14, 16. Nov. 1948. 286.28 Io9  
Fruit and vegetable pricing.

#### Processing and Storage

14437 AAS, J. Storage of cabbage. (In Norwegian.) Norsk Hagetidend 64: 220-221. Nov. 1/15, 1948. 80 N81

14438 ADCOCK, W. H. Yam glamour: recommended sirup mixes for canned sweet potatoes. Sweet Potato J. 3(7/9): 12-14. July/Sept. 1948. 80 Su32

14439 ANDERSON, W. S. Loss of carotene in preserved samples of sweet potatoes. Amer. Soc. Hort. Sci. Proc. 51: 393-394. June 1948. 81 So12

14440 ANDERSSON, Y. Potato storage in Northern USA. (In Swedish.) Jordbrukstek. Inst. C. 3, 11 p. Ref. 1948. 58.9 J762C

14441 BERG, H. Apfel im winterlager. Neue Mitt. f. die Landw. 3: 400-401. Nov. 15, 1948. 18 N39

14442 BLANKFELT, A. Storage experiments with food potatoes treated with Agermine. (In Swedish.) Lantmannen 32: 681-682. Oct. 9, 1948. 11 L234

14443 BLIN, H. Comment vous devez traiter votre tas de pommes de terre. Acclimatation 75: 220. Oct. 16, 1948. 14 Ac2

14444 BLIN, H. La durée de conservation des légumes-racines. Acclimatation 75: 193. Sept. 11, 1948. 14 Ac3

14445 BODWELL, J. H. Apple grower finds dollars in farm cold storage. Elect. on the Farm Mag. 21(9): 8-10. Nov. 1948. 335.8 EL27

14446 CAMERON, I. Laboratory control of jam setting. Food Manufacture 23: 455-457. Oct. 1, 1948. 389.8 F736

14447 CASTBERG, C. The storage contest of the Swedish Pomological Society 1947-48. (In Swedish.) Sveriges Pomol. Förs. Fruktdiaren 1948: 102-106. 86 Sv2F  
Apples.

14448 CHATEAU, R. Pour conserver les artichauts toute l'année. Rustica 21: 721. Oct. 10, 1948. 14 R92

14449 CHOUARD, P. État des recherches scientifiques sur le procédé Krebsler de conservation des fruits et fromages par la mousse. Cong. Pomol. de France. Sess. 78: 178-182. 1947. 93.09 C7643

14450 CHRISTOPHER, E. P., and others. Transpiration of apples in cold storage. Amer. Soc. Hort. Sci. Proc. 51: 114-118. June 1948. 81 So12  
S. A. Pieniazek, V. Shutak, and L. McElroy, joint authors.

14451 CLARK, W. Diced carrots tray-frozen at Spiegl Farms, Inc. West. Canner & Packer 40(12): 55-57. Nov. 1948. 286.83 W522

14452 CULPEPPER, C. W., and others. Dehydration of tomatoes. Fruit Prod. J. & Amer. Food Mfr. 28: 77-81, 93. (Concl.) Nov. 1948. 389.8 F94  
J. S. Caldwell, W. S. Porte, and M. C. Hutchins, joint authors.

14453 DAVIS, L. D., and DAVIS, M. M. Size in canning peaches. The relation between the diameter of Cling peaches early in the season and at harvest. Amer. Soc. Hort. Sci. Proc. 51: 225-230. June 1948. 81 So12

14454 DOLLEY, F. H. Humidity is vital factor in gas ripening. Smallholder 80(2015): 9. Nov. 12, 1948. 10 Sm1

Tests with tomatoes, strawberries and other fruits.

14455 DREIKAUSS, M. Das einwintern von gemüse. Bad. Landw. Wechnbl. 3: 167. Oct. 9, 1948. 18 B142

14456 ERICKSON, H. D., and COLMER, A. R. Pasteurization of black walnut meats. Food Res. 13: 417-431. Ref. Sept./Oct. 1948. 389.8 F7322

14457 FILINGER, G. A. New developments in freezing fruits and vegetables. Kans. State Hort. Soc. Bien. Rpt. 49: 24-26. 1948. 81 K13

14458 FURLONG, C. R. The effect of dipping in borax solutions on the boron content of oranges. Analyst 73: 498-500. Ref. Sept. 1948. 382 An1

14459 GEISS, W. Konservierung von tomaten und fruchten in flaschen. Obst- u. Gartenbau 3: 51-52. Sept. 1, 1948. 80 Ob72

14460 GENDRE, M. La conservation des fruits par la mousse. Foyer Rur. [Paris] 11(53): 4. (Cont.) Oct. 31, 1948. 14 F83

14461 GESSNER, A. L. Handbook of cooperatives processing horticultural products, 1945-46 & 1946-47. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 120, 28 p. June 1948. 166.3 M68

14462 GONZALEZ, L. G. Effects of freezing on the respiration rate of oranges and lemons. Amer. Soc. Hort. Sci. Proc. 51: 132-136. June 1948. 81 So12

14463 GRAY, H. E., and others. Frozen fruits & vegetables. Canad. Food Indus 19(11): 51-53; (12): 28-29. Nov.-Dec. 1948. 286.83 C166

F. B. Johnston, A. H. Jones, M. MacArthur, and W. R. Phillips, joint authors.

14464 GROEPER, E. Die einwinterung von gemüse für eigenbedarf und verkauf. Neue Mitt. f. die Landw. 3: 355. Oct. 25, 1948. 18 N39

14465 GRØN, S. L. A propos freezing of fruit and vegetables. (In Danish.) Gart. Tid. 64: 118-119. Mar. 3, 1948. 80 G192

14466 HANSEN, L. Fruit storage. (In Danish.) Gart. Tid. 64: 69-71. Feb. 11, 1948. 80 G192

14467 HARRISS, R. New outlets for our fruit: regarding this quick-freezing. Fruit-Grower 106: 641-642. Nov. 18, 1948. 80 F941

14468 HAVIGHORST, C. R. Quality apple juice made with comminutor. Food Indus. 20: 1746-1749. Dec. 1948. 389.8 F737

14469 HAYES, R. Iced refrigerated produce. Chain Store Age, Grocery Exec. Ed. 24(10): 67, 176. Oct. 1948. 286.28 C34

14470 HEINICKE, A. J. Improved varieties of vegetables and fruits for processing. (Abs.) Canner 107(23): 16, 36. Dec. 4, 1948. 286.83 C16

14471 HEINRICHS, P. Obstverwertung im haushalt. Gartenjahr 8: 102-104. July 1948. 80 G1932

14472 HOLGATE, K. C. Calcium chloride in firming apples and tomatoes. (Abs.) Canner 107(23): 15. Dec. 4, 1948. 286.83 C16

14473 HUELIN, F. E., and TINDALE, G. B. The gas storage of Victorian apples. Fruit World Ann. 1947: 47, 49, 51, 53, 55, 57. Ref. Jan. 1947. 80 F948

14474 HUGUET, F. Conservation des plants de pommes de terre. Vaucluse Agr. 4(78): 2. Nov. 1, 1948. 14 V26

14475 JEPSEN, G. Brief storage of some vegetables and berries. (In Danish.) Haven 48: 38-40. Mar. 1948. 80 H29

14476 JOUGAN, E. La conservation des pommes et des poires et les maladies du fruitier. Monit. Agr. 1(37): 17. Sept. 26, 1948. 14 M744

14477 KEFFORD, J. F. Refrigeration in the fruit juice industry. Refrig. J. 2: 658, 660, 662, 664, 666. Ref. Aug. 1948. 295.8 R255

14478 KESSLER, H. Hautbräune, ein gefährlicher feind unseres lagerobstes. Schweiz. Z. f. Obst- u. Weinbau 57: 363-365. Oct. 9, 1948. 80 Sch9

14479 KESSLER, K. L., and ALLISON, J. R. Use of growth regulators on lemons in storage. Calif. Citrog. 34: 24-25, 28. Nov. 1948. 80 C125

14480 LAGERUNG der rosskastanien. Natur u. Nahr. Ausg. B 2(17/18): 88-89. Ref. Sept. 1948. 80 N218B

14481 LAL, G., and JAIN, N. L. Canning trials on fruits. Indian J. Agr. Sci. 17: 187-195. Ref. June 1947. 22 Ag831

14482 LAL, G., and JAIN, N. L. Sugar requirements in candying of fruits and peels. Indian Farming 9: 187-190. May 1948. 22 In283

14483 LAMY, J. La conservation des fruits par le froid: le procédé "Krebsler." Cong. Pomol. de France. Sess. 78: 169-177. 1947. 93.09 C7643

14484 LEE, F. A. Research on vegetables and fruits for freezing. (Abs.) Canner 107(23): 15-16. Dec. 4, 1948. 286.83 C16



- 14485 LEGGETT, J. T., and GILBERT, S. G. Investigation on dehydration of tung nuts. Fla. Engin. and Indus. Expt. Sta. B. 21, 35 p. July 1948. 290.9 F66
- 14486 LEMONNIER, R. Conservation du plant de pommes de terre. Monde Paysan 3(119): 3. Oct. 1, 1948. 14 M742
- 14487 LINCOLN, R. Why not make sauerkraut? Ariz. Agr. Col. Ext. C. 141, 8 p. Aug. 1948. 275.29 Ar42
- 14488 LUNDSTEDT, A. Freezing of fruit and vegetables. (In Danish.) Haven 48: 40-41. Mar. 1948. 80 H29
- 14489 MACRILL, J. R. Lemon varieties in storage. Calif. Citrog. 34: 16-17. Nov. 1948. 80 C125
- 14490 MARCHINI, A. Preservation of vegetables with cold. (In Italian.) Gior. di Agr. 57: 21. Jan. 26, 1947. 16 It1G
- Interview with G. Mussetti.
- 14491 MARESCALCHI, A. Down with artificial sirups; beverages and sirups should be made exclusively from our fruits. (In Italian.) Ital. Vinic. ed Agr. 38: 123-124. June 15, 1948. 95.8 It1
- 14492 MARTIN, G. Australian dried fruits industry. Food Manufacture 23: 470-472. Oct. 1, 1948. 389.8 F73
- 14493 MATIESEN, D. Must news from Switzerland. (In Swedish.) Sveriges Pomol. Förr. Fruktodlaren 1948: 23-25. 86 Sv2F
- Methods of manufacture.
- 14494 MEYER, J. "Push button" control speeds preserve making. Fruit Prod. J. & Amer. Food Mfr. 28: 75-76, 81. Nov. 1948. 389.8 F94
- 14495 MILLS, B. H. Taking the temperature and pulse of a lemon. Calif. Citrog. 34: 2-3, 14. Nov. 1948. 80 C125
- Storage.
- 14496 MITCHELL, J. H., VAN BLARICOM, L. O., and RODERICK, D. B. The effect of canning and freezing on the carotenoids and ascorbic acid content of peaches. S. C. Agr. Expt. Sta. B. 372, 11 p. Ref. June 1948. 100 So8
- 14497 MOYER, J. C. The blanching of peas prior to canning. (Abs.) Canner 107(23): 16. Dec. 4, 1948. 286.83 C16
- 14498 MOYER, J. C. Pilot plant equipment for processing fruits and vegetables. (Abs.) Canner 107. (23): 14. Dec. 4, 1948. 286.83 C16
- 14499 NEUBERT, A. M., and others. Processing Washington-grown freestone peaches. Wash. Agr. Expt. Sta. C. 63, 38 p. Ref. July 1948. 100 W275
- J. H. Schultz, C. L. Bedford, and G. H. Carter, joint authors.
- 14500 PAPAIOANNOU, P. Potato clamping. Countryman [Nicosia] 2(7): 6-7. July 1948. 22.5 C83
- 14501 PENTLAND, M. Ice at work. West. Grower & Shipper 19(12): 132-133, 175. Nov. 1948. 280.38 W52
- Refrigeration of fruit and vegetables.
- 14502 POTGIETER, M., and COWELL, C. Effect of chipped ice packing on fresh kale preservation. Refrig. Engin. 56: 399-401, 421. Ref. Nov. 1948. 295.9 Am32J
- 14503 POTTER, N. A., and GRIFFITHS, D. G. The effects of temperature and gas mixtures on the production of volatile substances by apples during storage. Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem. 562, 7 p. 1948. 389.9 G792M
- 14504 POWERS, H. B. Home curing of dates. Ariz. Agr. Col. Ext. C. 144, 7 p. Aug. 1948. 275.29 Ar42
- 14505 PRATS SALAS, F. Maduración artificial del tomate. Agr. 4(37/38): 15-18. Jan./Feb. 1948. 33.23 Ag3
- 14506 QUEBEC. BUREAU DES STATISTIQUES. Conserves domestiques de fruits, légumes et viandes, 1946-1947. Sept. 1948. 4 p. 253.8 St2D
- Text in French and English.
- 14507 QUEMENER, J. Une nécessité: de l'amélioration des locaux de conservation. Pomme de Terre Franç. 11(111): 14-15. Nov. 1948. 75.8 P77
- 14508 ROY, W. F., and RUSSELL, H. E. Concentrated and then quick frozen orange juice retains its vitamin C. Food Indus. 20: 1764-1765. Dec. 1948. 389.8 F737
- 14509 SABUROV, N. V. Dried fruit varieties of plums. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 7: 103-108. 1948. 20 M857
- U. S. S. R.
- 14510 SCHMIDT, A. Winter storage of cabbage in pits and house. (In Danish.) Gart. Tid. 64: 84-85. Feb. 18, 1948. 80 G192
- 14511 SCHWARZ, A. Die sachgemässe Überwinterung der pflanzkartoffeln. Bad. Landw. Wchnbl. 3: 164-165. Oct. 9, 1948. 18 B142
- 14512 SHUTAK, V., and CHRISTOPHER, E. P. Prolonging shelf life of plums with carbon dioxide. Amer. Soc. Hort. Sci. Proc. 51: 231-234. June 1948. 81 So12
- 14513 SMITH, W. H. Storage of carrots. Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem. 563, 6 p. 1948. 389.9 G792M
- 14514 STUIVENBERG, J. H. M. VAN. Verliezen bij het bewaren van consumptie-aardappelen [Losses in the preservation of consumer potatoes]. Inst. v. Onderzoek op het Gebied van Verwerking van Fruit en Groenten Overdruk 7: 151-165. 1947. 389.9 W12
- Also in Landbouwk. Tijdschr. 59: 151-165. Ref. Mar./May 1947. 105.2 Or3
- 14515 SYKES, S. M. Quick freezing of fruits and vegetables in the U. S. A. and Canada. Food Preserv. Q. 8: 6-9. March 1948. 389.9 Au7F
- Also in Ag. Gaz. N. S. Wales 59: 427-430. Aug. 1948. 23 N472
- 14516 TASCHENKALENDER für gärungslose fruchtverwertung, 1948. Berlin, Staatlich anerkannte Lehr- u. Versuchsanstalt für gärungslose Fruchteverwertung, Ober. Erlenbach, 1948. 146 p. 389.3 T18
- 14517 TAYLOR, P. R. Some suggestions as to contracts for processing vegetables. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 69-77. 1948. 81 V52
- 14518 U. S. EASTERN REGIONAL RESEARCH LABORATORY. Production of white potato flour and meal. U. S. Bur. Agr. and Indus. Chem. CA-4, 2 p. Aug. 1948. 1.932 A2C42
- 14519 VAUGHAN, R. H., WINTER, F. H., and SMITH, E. E. Continuous sanitizing of equipment in the dried fruit industry. Food Technol. 2: 292-296. Oct. 1948. Ref. 389.8 F7398
- 14520 WAAL, G. A. VAN DER. Potato storage. (In Dutch.) Landbouwk. Tijdschr. 59: 166-169. Mar./May 1947. 105.2 Or3
- 14521 WALKER, K. C. DDT residue and its removal from apples and pears. Amer. Soc. Hort. Sci. Proc. 51: 85-89. June 1948. 81 So12
- 14522 WARDLAW, C. W. Frutas tropicales: su almacenaje y su transporte. Campo [Tacuba] 16(678): 3-4, 6-8, 10, 12, 14, 16-19. Aug. 31, 1948. 8 C157
- 14523 WELDON, G. P. A new development in pre-cooling. Calif. Farmer, South. Ed. 189: 376. Nov. 6, 1948. 6 C126A
- Pre-cooling grapes for shipment.
- 14524 WENZEL, F. W. Canning and by-products research at citrus experiment station. Citrus Indus. 29 (12): 8-9, 11, 22. Dec. 1948. 80 C49
- 14525 WOODMANSEE, C. W., BAKER, G. L., and GILLIGAN, G. M. Rhubarb extract as a preventative of browning of apple slices in home frozen storage. Del. Agr. Expt. Sta. C. 22, 6 p. July 1948. 100 D37S
- 14526 ZWEEDE, A. K. Problems in regard to freezing of fruits and vegetables. (In Dutch.) Landbouwk. Tijdschr. 59: 135-150. Ref. Mar./May 1947. 105.2 Or3

## Statistics

- 14527 CARNCROSS, J. W. New Jersey asparagus acreage has increased. N. J. State Hort. Soc. Hort. News 29: 2099. Nov. 1948. 81 N46
- 14528 HARTARD EBERT, M. Cultivos y cosechas de frejoles por variedades [Chile]. Campesino [Santiago] 80(9): 39-41. Sept. 1948. 9.3 So12
- Statistics.
- 14529 HENRIKSON, K. Fruit crop yield 1947. (In Swedish.) Sveriges Pomol. Förr. Årsskr. 1947: 214-217. 86 Sv2
- 14530 HENRIKSON, K. Notes on the crop control 1947. (In Swedish.) Sveriges Pomol. Förr. Fruktodlaren 1948: 108-110. 86 Sv2F
- Statistics of fruit and berries.
- 14531 U. S. BUR. OF AGRICULTURAL ECONOMICS. Citrus fruits; acreage, production, farm disposition, value and utilization of sales. Washington, 1948. 10 p. 1.941 H8C49



## GRAIN AND GRAIN PRODUCTS

- 14532 ALBERTARIO, P. The 1948 price of rice [Italy]. (In Italian.) *Gior. di Agr.* 58: 268. Oct. 3, 1948. 16 It1G
- 14533 AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS. Engineering data on grain storage. *Agr. Engin. Data* 1, 11 p. May 1948. 58.9 Am3
- 14534 ANDERSON, E. Millet provides food for millions. *Foreign Agr.* 12: 235-239. Nov. 1948. 1 Ec7For
- 14535 ANDERSON, J. A., and AITKEN, T. R. The quality of western Canadian wheat, 1948 crop. *Canad. Grain Res. Lab. Crop B.* 29, 22 p. Oct. 1948. 298.9 C162
- 14536 BERNARD, P. La vente des blés destinés à la semence [France]. *Monit. Agr.* 1(42): 2. Oct. 31, 1948. 14 M744
- 14537 BES, K. R., and others. On the production of food yeast from partially hydrolyzed cereal straw. *Antonie van Leeuwenhoek J. Microbiol. & Serol.* 14: 97-125. Ref. 1948. 448.8 N28A
- F. C. Gerretsen, J. van Julsingha, F. M. Muller, and E. L. Ritman, joint authors.
- 14538 BOMBAY. DEPT. OF AGRICULTURE. Final memorandum on the wheat crop of the Bombay Province (including Kolhapur State) for the season 1947-48. Poona, 1948. 5 p. 59.9 In25
- 14539 BONFIGLIOLI, O. Conservation of grain. (In Italian.) *Campagnolo* 1948(8): 2-3. Aug. 1, 1948. 16 C15
- Italy.
- 14540 BORASIO, L. New horizons for the rice industry. (In Italian.) *Risicoltura* 36: 52-57. Mar. 1948. 59.8 G43
- 14541 BORASIO, L. Proposal for classification and commercial evaluation of the most important subproducts in rice processing. (In Italian.) *Risicoltura* 36: 4-8, 35-40. Jan.-Feb. 1948. 59.8 G43
- 14542 BRANNAN, C. F. The public stake in grain and feed. Washington, U. S. D. A., 1948. 10 p. 1.91 A2B73
- 14543 BURE, J. L'examen Pékar et l'appréciation du taux d'extraction des farines. *Cong. Internatl. des Indus. de Fermentation* (1947)1: 371-388. Ref. 390.09 C76
- Summary in English and Dutch.
- 14544 BURE, J., CHOVELON, J., and BEGUE, D. Le séchage à froid des grains. *Acad. d'Agr. de France. Compt. Rend.* 34: 825-828. June 30/July 7, 1948. 14 P215Bc
- 14545 CALIFORNIA HAY, GRAIN AND FEED DEALERS ASSOCIATION. 24th annual report. Apr. 14, 1948. 24 p. 389.79 C12
- 14546 CANTONI, G. Rice and its price [Italy]. (In Italian.) *Coop. e Agr.* 30(40): 1. Oct. 16, 1948. 16 C78
- 14547 CHRISTENSEN, K. The Italian rice industry. *Rice J.* 51(11): 30-32. Nov. 1948. 59 R36
- 14548 CLAPHAM, J. Corn harvest, 1948: Gloucester story. *Gt. Brit. Min. Agr. Agriculture* 55: 306-307. Oct. 1948. 10 G79J
- 14549 CLARE, L. E. A., and UNDERWOOD, E. J. The thiamin and riboflavin contents of wheat and its mill products. *Austral. J. Expt. Biol. & Med. Sci.* 26: 419-423. Ref. Sept. 1948. 442.8 Au7
- 14550 COATING process restores vitamins to rice. *Food Indus.* 20: 1598-1599, 1716. Nov. 1948. 389.8 F737
- A McGraw Hill World News and Food Industries staff report.
- 14551 CRESCINI, F. At the fruit culture conferences—grain also was spoken of [Italy]. (In Italian.) *Gior. di Agr.* 58: 271. Oct. 3, 1948. 16 It1G
- 14552 DE JONG, H. L. B., KLAAR, W. J., and KARREMAN, T. P. W. The preparation of nitrogen trichloride by electrolysis. *Miller* 79: 875-880. Oct. 4, 1948. 298.8 M61
- For flour improvement.
- 14553 DELEAU, J. Ce que pourrait être la politique du blé. *Cahiers des Ingén. Agron.* 2(19): 17-21. Jan. 1947. 14 C112
- France.
- 14554 DELL'ORSOLA, G. The grain season. (In Italian.) *Agr. Trentina* 3(17): 1. Sept. 1, 1948. 16 Ag8263
- 14555 DIRNBERGER, H. Was muss man von der rüfflung und vom drall wissen? *Mühlen-Ztg.* 2: 126-127. Sept. 11, 1948. 298.8 M893
- 14556 DRAGHETTI, A. Posthumus considerations on wartime agriculture, on the basis of the 1948 grain delusion. (In Italian.) *Campagnolo* 1948(9): 1-2. Sept. 1, 1948. 16 C15
- Italy.
- 14557 DU PLESSIS, C. V. H. Production and utilization of corn. (In Afrikaans.) *Landbouweekblad* 30 (1525): 38, 51, 67. Oct. 6, 1948. 24 L232
- Union of South Africa.
- 14558 EFFERSON, J. N. Report on Burma. *Rice News* 15(10): 3, 8-10. Oct. 1948. 59.8 R362
- 14559 ESPIGULE PUIG, J. Fabricación de harinas. *Ceres [Valladolid]* 13(147): 21-22. Sept. 1, 1948. 15 C33
- 14560 FARQUHAR, A. J. Quality of South Australian F. A. Q. wheat. *So. Austral. Dept. Agr. J.* 52: 24-26. Aug. 1948. 23 So84
- 14561 FARRELL, E. P. Breaking with Entoleters. *Northwest. Miller, Milling Prod. Sect.* 236(11): 1a, 22a-24a. Dec. 14, 1948. 298.8 N81
- 14562 FERRARIS, L. For the next grain planting [Italy]. (In Italian.) *Coop. e Agr.* 30(39): 1. Oct. 9, 1948. 16 C78
- 14563 FONDARD, L. Le séchage des grains. *Réveil Agr.* 57: 322-323. (To be cont.) Nov. 1, 1948. 14 R322
- 14564 FRANCE. DIRECTION DE LA DOCUMENTATION. La production et le marché des céréales. 1-3. France. *Dir. de la Doc. Notes Doc. et Etudes* 984, 16 p.; 985, 28 p.; 986, 10 p. 1948. 280.9 F843
- 14565 FRANZO, R. The price of rice, 1948 harvest [Italy]. (In Italian.) *Coop. e Agr.* 30(39): 1. Oct. 9, 1948. 16 C78
- 14566 FROESCHEL, P. Le procédé de freinage biologique en malterie. *Cong. Internatl. des Indus. de Fermentation* (1947)1: 195-201. 390.09 C76
- Summary in English and Dutch.
- 14567 GANNON, E. C. Fire demon still takes heavy toll. *Milling & Feed* 29(10): 9. Oct. 1948. 298.8 C162
- In mills.
- 14568 GIULIANELLI, E. Considerations on the grain campaign. (In Italian.) *Agr. Romagna* 1948: 1. Sept. 20, 1948. 16 Ag828
- 14569 GLABAU, C. A. Baking characteristics of the 1948 northwestern flour. *Cracker Baker* 37(11): 28-31. Nov. 1948. 389.8 C84
- 14570 GORDON, C. W. Economics of bulk transfer of flour. *Northwest. Miller, Milling Prod. Sect.* 235(11): 4a-6a. Sept. 14, 1948. 298.8 N81
- 14571 GORNY, C. J. Heavy grain movements. Ill. *Dept. Agr. Div. Grain Inspec. at Chicago and East St. Louis. Ann. Rpt.* 30: 3-23. 1947. 2 IL6R
- Statistics.
- 14572 GRAHAM, S. G. Flour enzymes. *Australasian Baker* 51(619): 19, 21, 23, 25-26, 29, 31. Sept. 1948. 298.8 Au7
- Discussion, p. 31, 33.
- 14573 GRAIN AND FEED DEALERS' NATIONAL ASSOCIATION. Recommended revision, trade rules of the Grain and Feed Dealers National Association. n. p., 1948? 6 p.-folder. 286.359 C762R
- 14574 GUILLEBRON, M. DE. Utilisons correctement le blé français. *Acad. d'Agr. de France. Compt. Rend.* 34: 851. June 30/July 7, 1948. 14 P215Bc
- 14575 GUILLEMET, R. Sur les additions susceptibles d'augmenter la quantité actuelle de farine panifiable, dans leurs rapports avec les caractéristiques fermentaires et plastiques de la pâte boulangère. *Cong. Internatl. des Indus. de Fermentation* (1947)1: 389-401. 390.09 C76
- Summary in English and Dutch.
- 14576 HARRIS, K. L., and KNUDSEN, L. F. Tests on the efficiency of various filth recovery procedures. II. Insect fragments and rodent hairs from flour: Assoc. *Off. Agr. Chem. J.* 31: 786-797. Nov. 15, 1948. 381 As7
- 14577 HARRIS, R. H. Barley testing for quality at the Experiment Station. *Bimonthly B. [N. Dak. Sta.]* 10(6): 179-183. July/Aug. 1948. 100 N813B
- 14578 HAUCK. Gedanken zur getreidebestellung 1948/49. *Bad. Landw. Wchnbl.* 3: 137-138. Sept. 11, 1948. 18 B142



- 14579 HERD, C. W. The chemist in the flour mill. Roy. Inst. Chem. Gt. Brit. and Ireland. J. and Proc. 1948: 258-259. Oct. 1948. 382 In7
- 14580 HINTON, J. J. C. Parboiling treatment of rice. Nature [London] 162: 913-915. Dec. 11, 1948. 472 N21
- 14581 HUSMANN, K. Ein öffentlicher skandal. Mühlen-Ztg. 2: 119-120. Sept. 11, 1948. 298.8 M893  
Flour situation in Germany.
- 14582 ILLINOIS. DEPT. OF AGRICULTURE. DIVISION OF GRAIN INSPECTION AT CHICAGO AND EAST ST. LOUIS. Thirtieth annual report, July 1, 1946 to June 30, 1947. Springfield, 1947. 27 p. 2 IL6R
- 14583 ISSOGLIO, G. Physical and chemical examination of bread doughs. (In Italian.) Italia e i Cereali 2: 209-211. Aug. 1947. 59.8 It1  
Includes flour analysis.
- 14584 JAGOE, R. B. Las mejores condiciones para el almacenamiento del arroz. Campesino [Santiago] 80(8): 40. Aug. 1948. 9.3 So12
- 14585 JAUMES, and others. Action coopérative en faveur du développement de la riziculture en France. Coop. Céréales 11: 15-17. Aug. 1948. 280.28 C7864  
Clauzel, Sirvent, and Lapiere, joint authors.
- 14586 JORDAN, G. L. The seasonal movements of prices of corn and other feedstuffs. Ill. Farm Econ. 161: 733-737. Oct. 1948. 275.28 IL5
- 14587 JÖRRISEN, J. Bauer und bäcker; neue wege zur leistungssteigerung in der ernährungswirtschaft. Kurzbrieft. Ernähr. u. Landw. 2: B IV 1, 4 p. Feb. 1948. 281.8 K96
- 14588 KANSAS FARMERS CO-OPERATIVE ASSOCIATION. 1947-48 directory of grain elevators and co-operative oil companies of Kansas. Hutchinson, Kans., 1948. 120 p. 225 F224
- 14589 KRAMER, H. A. Drying combined rice. Rice J. 51(11): 7-9, 11, 34. (To be cont.) Nov. 1948. 59 R36  
Also in Rice News 15(10): 14. Oct. 1948. 59.8 R326
- 14590 LAUERBACH, Der getreidewert. Fortschritt in der Landw. 1: 30-31. July 17, 1948. 18 F773  
Grain value in terms of other agricultural products.
- 14591 LAUMONT, P. L'importance passée et présente de la culture des céréales en Algérie. Rev. Agr. de l'Afrique du Nord 46: 394-395. Aug. 6, 1948. 80 R326
- 14592 LAUMONT, P. La production actuelle des céréales en Algérie et les besoins à couvrir. Rev. Agr. de l'Afrique du Nord 46: 419-422. Aug. 20, 1948. 80 R326
- 14593 LAUTERBACH, W. J. Crop conditioning requirements for the corn wet mill. Washington? 1948. 4 p. 298 L37
- 14594 LEE, J. W., and UNDERWOOD, E. J. The total phosphorus, phytate phosphorus and inorganic phosphorus content of wheat, and its mill products. Austral. J. Expt. Biol. & Med. Sci. 26: 413-418. Ref. Sept. 1948. 442.8 Au7
- 14595 LOCKWOOD, J. F. The conditioning of wheat for milling. Cong. Internatl. des Indus. de Fermentation (1947)1: 432-440. 390.09 C76  
Summary in French and Dutch.
- 14596 LOVELAND, A. J. Refilling the ever-normal granary. Washington, U. S. D. A., 1948. 6 p. 1.91 A2L94
- 14597 LUNDIN, H. Studies in the amylases of barley and malt. Cong. Internatl. des Indus. de Fermentation (1947)1: 79-87. 390.09 C76  
Summary in French and Dutch.  
Also in Brewers Digest 23(10): 55-57, 64. Oct. 1948. 390.8 B75
- 14598 MAES, E. Quelques aspects de la chimie de la farine. Cong. Internatl. des Indus. de Fermentation (1947)1: 441-458. Ref. 390.09 C76  
Summary in English and Dutch.
- 14599 MATHLEIN, R. Storage injuries to grain. (In Swedish.) Försök och Forskning 4: 105-108. Sept. 1947. 11 F77
- 14600 MEDICI, G. The grain situation [Italy]: political prices. (In Italian.) Gior. di Agr. 57: 61. Mar. 16, 1947. 16 It1G
- 14601 MEDICI, G. The price of grain [Italy]. (In Italian.) Gior. di Agr. 57: 55. Mar. 9, 1947. 16 It1G
- 14602 MINNESOTA. BOARD OF GRAIN APPEALS. Official Minnesota grain grades for the 1948-49 crop year. Duluth, 1948. 98 p. 280.3599 M66
- 14603 MONTEVERDE, M. A. Factores que deben tenerse en cuenta para la conservación del trigo. Campo y Suelo Argentino 32(383): 16. Sept. 1948. 9 C15
- 14604 MYRBAK, K. Wirkung der malzamyiasen auf stärke und glycogen. Brauwelt 1947: 486-489. Dec. 4, 1947. Ref. 390.8 B732
- 14605 NAVARRO, A. New horizons in the grain problem; the case of Portugal. (In Portuguese.) Agros 31: 178-190. (Cont.) July/Aug. 1948. 15.5 Ag82
- 14606 NOEL, J. C. Canada's granaries on wheels; movement of grain on Canadian railroads a work of precision. Milling & Feed 29(10): 20. Oct. 1948. 298.8 C162
- 14607 NURET, H., and DUBOURG, J. Données pratiques sur le sechage du blé. Coop. Céréales 10: 12-14. June/July 1948. 280.28 C7864
- 14608 NURET, H., and others. Données pratiques sur la préservation de la récolte de blé. Coop. Céréales 11, Sup. Spéc., 8 p. Aug. 1948. 280.28 C7864  
J. Dubourg, A. Lemierre, and F. Sauze, joint authors.
- 14609 OLSON, E. A., and YUNG, F. D. Conditioning and storing corn. Nebr. Agr. Col. Ext. E. C. 738, rev., 16 p. Sept. 1948. 275.29 N272Ex
- 14610 OSBORN, T. W. B. The loaf—its past and future. Food Indus. So. Africa 1(5): 26-30. Sept. 1948. 389.8 F7372  
Milling.
- 14611 OWEN, N. Provender & compound milling. 20. Miller 79: 983-986. Nov. 8, 1948. 298.8 M61
- 14612 OXLEY, T. A. New ideas in grain storage. Brit. Agr. B. 1: 28-34. Spring 1948. 10 B776
- 14613 PAGANI, A. The price of rice [Italy]. (In Italian.) Voce dei Campi 3(26): 1. Oct. 10, 1948. 16 V852
- 14614 PAZZAGLIA, Raw materials in the baking industry. (In Italian.) Arte Bianca 3(9): 5. (Cont.) Sept. 1, 1948. 389.8 Ar7  
Discusses industrial processing of grains.
- 14615 PERU. MINISTERIO DE AGRICULTURA. DIRECCIÓN DE ECONOMÍA AGROPECUARIA. DEPARTAMENTO DE ESTADÍSTICA AGROPECUARIA. Estadística de la producción de trigo en el Perú correspondiente a los años 1944, 1945 y 1946. Lima, 1948. 211 p. 255.8 Ag8Et
- 14616 PFEUFFER, F. Vom samenkorn zum brot. Mühlen-Ztg. 2: 128-219. Sept. 11, 1948. 298.8 M893
- 14617 PFLIMLIN, P. Le prix du blé [France] doit être calculé sur la base des frais de production. Monde Paysan 3(119): 1, 4. Oct. 1, 1948. 14 M742
- 14618 PIMENTEL, F. General aspects of wheat culture in R. G. S. (In Portuguese.) Rev. Agron. 12: 88-93. Apr./June 1948. 9.2 R325  
A chronology.
- 14619 PRATES, J. Rice production and trade. (In Portuguese.) Lav. Arroz. 2(21): 45-46. Sept. 1948. 59 L39  
Brazil.
- 14620 PREGO, A. J. La producción maicera en la región de secano centro-norte del país [Argentina]. IDIA; Inform. de Invest. Agr. 1(9): 12. Sept. 1948. 9 Id3
- 14621 PRESTIANNI, N. Proposal for the 1947 grain pool [Italy]. (In Italian.) Gior. di Agr. 57: 61. Mar. 16, 1947. 16 It1G
- 14622 ROBINSON, R. A. Bulk handling of flour. Northwest. Miller, Milling Prod. Sect. 236(11): 5a, 7a. Dec. 14, 1948. 298.8 N81
- 14623 ROCHET, W. Pour un plus juste prix du blé. Terre 199: 1, 3. Aug. 5/11, 1948. 281.8 T27  
France.
- 14624 ROMANINI, A. The new grain campaign. (In Italian.) Avvenire Agr. 5: 221-222. Sept. 1948. 16 Av9
- 14625 RONCHI, V. The new grain campaign: sow much and well [Italy]. (In Italian.) Gior. di Agr. 58: 267. Oct. 3, 1948. 16 It1G
- 14626 RUSSELL, R. S. Government bulk buying: wheat. Weekly Market News & Mod. Farmer 26(48): 2, 8. (Cont.) Nov. 25, 1948. 286.81 G762A  
Canada.
- 14627 SANDEGREN, E. Barley phytin and its decomposition during malting and brewing. Cong. Internatl. des Indus. de Fermentation (1947)1: 88-92. 390.09 C76  
Summary in French and Dutch.



14628 SCHAEFFLER, H. Feucht eingebrachtes getreide. Landw. Wchnbl. 138: 235. Sept. 4, 1948.

18 L2338  
Germany.

14629 SCHOFFELMAYER, V. Rice wastes tested as new chemurgic materials; California makes wallboard from hulls now burned. Tex. Chemurgic News 4(4): 1-2. Oct. 1, 1948. 381 T29

14630 SHEPPARD, F. M. Receipts of grain increase. Ill. Dept. Agr. Div. Grain Inspec. at Chicago and East St. Louis. Ann. Rpt. 30: 24-27. 1947. 2 IL6R  
Statistics.

14631 SILVEIRA, A. H. DA. Corn processing on the farm. (In Portuguese.) Rev. Agron. 12: 108. Apr./June 1948. 9.2 R325

14632 SILVEIRA, A. H. DA. Home manufacture of table flour. (In Portuguese.) Brincar e Aprender 6(27): 23, 29. Aug./Dec. 1947. 275.249 B77

14633 SMURR, E. Observations on wheat staining. Northwest. Miller, Milling Prod. Sect. 235(11): 8a-9a. Sept. 14, 1948. 298.8 N81

14634 SOUTH AFRICA. CONTROLLER AND AUDITOR-GENERAL. Verslag van die Kontroleur en Ouditeur-General oor die rekeninge van die Raad van Beheer oor die Koringnywerheid en die Raad van Toesig op die Suiwelnywerheid vir die rekenpligtige jaar 1945-46, met die staat van rekeninge; report of the Controller and Auditor-General on the accounts of the Wheat Industry Control Board and the Dairy Industry Control Board for the accounting year 1945-46 with the statement of accounts. Cape Town, 1948. 70 p. 286.9 S083V

14635 STAHL, B. F., and SMITH, H. L. Treatment for prevention of decay in stacked straw. Paper Trade J. 125(24): 52-54. Dec. 11, 1947. 302.8 P196

14636 STARK, W. H., and others. New developments in alcohol production from grain mash. Cong. Internatl. des Indus. de Fermentation (1947)1: 319-329. Ref. 390.09 C76

P. Kolachov, L. A. Smith, H. C. Blankmeyer, and H. F. Willkie, joint authors.

Summary in French and Dutch.

14637 STARK, W. H., and others. The production of 2,3-butylene glycol from grain. Cong. Internatl. des Indus. de Fermentation (1947)1: 330-343. Ref. 390.09 C76

S. L. Adams, P. Kolachov, and H. F. Willkie, joint authors.

Summary in French and Dutch.

14638 SWARBRECK, G. First post-war mill completed in England. Northwest. Miller, Milling Prod. Sect. 236(11): 20a-21a. Dec. 14, 1948. 298.8 N81

14639 SYDOW, O. Das hektoliter-gewicht. Mühlen-Ztg. 2: 123. Sept. 11, 1948. 298.8 M893

14640 TODARO, F. On grain and other crops: advice to the farmers of strong Calabria. (In Italian.) Gior. di Agr. 58: 312. Nov. 7, 1948. 16 It1G

14641 TRIGG, R. S. A look at grain and feed prospects. Washington, U. S. Prod. and Mktg. Admin., 1948. 9 p. 1.956 A2T73

14642 U. S. BUR. OF AGRICULTURAL ECONOMICS. General instructions to enumerators of the Alabama corn survey. Washington? 1948? 3 p. 1.941 A22G28

14643 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Are farmers getting grain stored this fall? By L. K. Smith and K. M. Gapen. Washington, 1948. 2 p. 1.914 R2R11

14644 U. S. EXTENSION SERV. Wheat and rye summary for the crop year beginning July 1947. Chicago, 1948. 10 p. 1.913 A2W56

U. S. Production and Marketing Administration cooperating.

Statistical summary.

14645 URION, E. Essais de micromaltage à l'Ecole de Brasserie de Nancy. Cong. Internatl. des Indus. de Fermentation (1947)1: 136-144. 390.09 C76  
Summary in English and Dutch.

14646 VALLE, O. Quick analysis of the quality of the 1947 grain crop. (In Swedish.) Prakt. Försöksverks. 5: 1-3. Jan. 1948. 20 P88

14647 VANNUCCINI, G. 1949 grain. (In Italian.) Terra e Sole 71/72: 701-705. Oct. 1948. 16 T273  
Italy.

14648 VERCELLI, G. DI. Observations on the excessive price for rice. (In Italian.) Voce dei Campi 3 (22): 1. Aug. 31, 1948. 16 V852  
Italy.

14649 WARD, H. H. How should the miller balance his wheat? Food Indus. So. Africa 1(5): 31-34. Sept. 1948. 389.8 F7372

14650 WARREN, C. H. Corn necks and dollies. Nature Lover 5: 406-408. Sept. 1948. 410 N218  
Grain harvest traditions.

14651 WHITLOW, S. Research on drying, storing. Rice News 15(11): 6. Nov. 1948. 59.8 R362

## HONEY AND BEESWAX

14652 BONDI, A. The chemical composition of honey, nectar and pollen. (In Hebrew.) Hassadeh 28: 486-487; 536-537. Aug.-Sept. 1948. 26 H27

14653 BRAUN, E. Beekeepers warned to label honey. West. Canada Beekeeper 11(10): 8. Oct. 1948. 424.8 W525

14654 CONNOLLY, M. Honey production in the country and planning for the future. Irish Beekeeper 2: 180-181. Aug. 1948. 424.8 Ir42

14655 DALE, M. R. M. The honey industry in New Zealand. Overseas Rpt. Agr. Devlpmt. 6, 2 p. June 1948. 281.9 C1642O

14656 GARDNER, L. C. Decolored-deflavored honey—answer to our surplus problems? South. Beekeeper 2(8): 4-5. Aug. 1948. 424.9 S083

14657 GAYRE, G. R. Mead industry revived. Food Indus. 20: 1612-1614, 1712-1713. Nov. 1948. 389.8 F737

14658 HENDERSON, K. D. Marketing honey. Canad. Bee J. 56(11): 12-14. Nov. 1948. 424.8 C16

14659 KELLEY, W. T. The American Honey Institute. Mod. Beekeeping 32: 697-698. Sept. 15, 1948. 424.8 B397

14660 KELLEY, W. T. Roadside stand. Mod. Beekeeping 32: 727-732. Oct. 15, 1948. 424.8 B397

14661 LONG, J. Our new honey grades. Wis. Hort. 39: 77. Nov. 1948. 80 W752

14662 NAGEL, G. C. Federation [National Federation of Beekeepers' Associations] honey advertising campaign released. Mod. Beekeeping 32: 699. Sept. 15, 1948. 424.8 B397

14663 PARKER, R. L. Flavor and colors of the principal legume honeys of the northern Mississippi River Valley. Gleanings Bee Cult. 76: 749, 785. Dec. 1948. 424.8 G47

14664 PRYCE-JONES, J. A selection of twelve honeys. (Sum.) Welsh Bee J. 3: 98-102. Sept. 1948. 424.8 W462

14665 RAHMLow, H. J. Hitching our honey advertising budget to facts. South. Beekeeper 2(10): 7. Oct. 1948. Ent. Sub-Br. Libr.

14666 RICHARD, A. La récolte de miel dans la région de Pithiviers - année de désastre. Apiculteur 92: 222-224. Sept. 1948. 424.8 Ap3

14667 WELLS, T. J. Let's sell our honey. Amer. Bee J. 88: 542. Nov. 1948. 424.8 Am3

## LIVESTOCK AND LIVESTOCK PRODUCTS

14668 AMSCHLER, J. W. Grundlegende fragen der österreichischen tierzucht. Kärntner Bauer 98: 315-316. Oct. 1, 1948. 19 K14

14669 ASHBROOK, F. G. The story of fur farming. Natl. Fur News 20(10): 30-31, 94-95. Nov. 1948. 412.628 R59

14670 AUSTRALIA. BUR. OF AGRICULTURAL ECONOMICS. The pig industry. Rev. Mktg. Agr. Econ. 16: 315-342. July 1948. 286.8 N47M  
Summary of a report.

14671 BARBERI, B. Animal products and the food supplies of the Italian people. Food & Agr. 7: 531-535. Aug./Sept. 1948. 389.8 F7326

14672 BARNSTEDT, Die schweinehaltung im Weser-Ems-gebiet. Landwirtschaftsblatt Weser-Ems 95: 208. Oct. 20, 1948. 18 L2345

14673 BENZONI, C. Production and consumption of pork. (In Italian.) Agr. Sarda 25: 223, 225, 227, 229, 351, 353, 355. (Concl.) July-Aug. 1948. 16 A0825

14674 BERGE, S. Mutation mink. (In Norwegian.) Norsk Pelsdyrbl. 22: 333-335. Nov. 5, 1948. 412.628 N812

14675 BLOCK, A. Probleme der viehwirtschaft in Niedersachsen. Agrarpolit. Presse-Korresp. 1(4): 2-3. June 15, 1948. 281.8 Ag892



- 14676 BONADONNA, T. Against "centralized" live-stock production [Italy]. (In Italian.) *Gior. di Agr.* 57: 31-32. Feb. 9, 1947. 16 It1G
- 14677 BOWNESS, E. R. The Canadian fur farming scene. *Natl. Fur News* 20(10): 37, 88-89. Nov. 1948. 412.628 R59
- 14678 BRETT, W. J. The fur industry—as we see it. *Canad. Silver Fox & Fur* 14(11): 5-6, 8, 10. Nov. 1948. 412.62 C163
- 14679 BULL, S. Veal for the table. *Ill. Agr. Col. Ext. C.* 629, 23 p. Sept. 1948. 275.29 IL62C
- 14680 CALVO, C. A. Lanares en la República Argentina. *Bolsa de Com., Rosario. Rev.* 36(881): 3-8. Sept. 30, 1948. 287 R71
- 14681 CANADA. DEPT. OF TRADE AND COMMERCE. DOMINION BUR. OF STATISTICS. AGRICULTURAL DIV. Fur production of Canada, season 1946-1947. Ottawa, 1948. 22 p. 412.629 C162
- 14682 CASTLE, C. V. Saving cows. *Calif. Dairyman* 28(22): 23. Dec. 4, 1948. 44.8 C12
- 14683 CATRON, D. Making both ends meet—in hog production. *Iowa Swine Breeders Dir.* 1948/49: 12-16. 1948. 46.9 Io9
- 14684 CONWAY, H. M. Continued strong consumer demand seen for livestock. *St. Louis Prod. News* 19(38): 2. Oct. 27, 1948. 280.28 Sa2
- 14685 COUCH, V. M. The rabbit industry and the 4-H. *Amer. Farm Youth* 14(4): 60. Sept. 1948. 6 Am393
- 14686 DEDERER, M. A history of the fur industry. *Fur. J.* 14(12): 8, 28-29, 32-33. Oct. 1948. 412.628 F969
- 14687 DENNETT, A. H. Highest [sheep] producing State [Victoria] not yet at capacity. *Farmer & Settler Rev.* 1(5): 27. Oct. 1948. 23 F2262
- 14688 DIRECTORY of purebred livestock producers, as compiled by county farm agents of 20 [North Carolina] counties. *Farmers Fed. News* 29(3): 10-17. Nov. 1948. 280.28 F225
- 14689 DUFF, SIR P. What our pigmeats mean to hungry Britons. *New Zeal. Dairy Exporter* 24(3): 42-44. Sept. 1948. 44.8 N484
- 14690 DU PLESSIS, C. V. H. The newly introduced meat scheme. (In Afrikaans.) *Landbouweekblad* 30 (1526): 42-43. Oct. 13, 1948. 24 L232  
Union of South Africa.
- 14691 EIRE. PIGS AND BACON COMMISSION. Report of proceedings for the year ended 31st December, 1946. Dublin, 1947. 11 p. 281.3469 Ir22
- 14692 EREKSON, A. Breeders grade foxes and help to get top prices. *Black Fox Mag.* 32(4): 15, 24. Aug. 1948. 410 B56
- 14693 ETIGNY, J. D. El problema de la ganadería nacional. *Agr. del Norte* 38: 143-148. Aug. 1948. 9.3 So14  
Chile.
- 14694 FEDERAL RESERVE BANK OF CHICAGO. RESEARCH DEPT. A financial and economic survey of the meat packing industry; 1948 supplement, by W. E. Hoadley, Jr., E. Baughman, and W. P. Mors. Chicago, 1948. 11 p. 50.9 F31
- 14695 FERNÁNDEZ CANO, R. El problema de la ganadería de carne. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 1(3): 42-48; 2(4): 12-19. Dec. 1947-Mar. 1948. 49.9 P433
- 14696 FERRAGUT LEON, C. Estudio de diversos aspectos de la producción y comercio de ganado vacuno en Cuba, con vista al normal abastecimiento de carne a la población. *La Habana, "Editorial Neptuno" 1948?* 94 p. 43 F41
- 14697 FIGUEROA INFANTE, J. El ganadero y el estado. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 1(3): 60-61. Dec. 1947. 49.9 P433
- 14698 FRANKLIN, K. R., and HOLLAND, D. Lamb goes to school; a fact-finding research and educational program. *Natl. Wool Grower* 38(11): 8-10, 27-28. Nov. 1948. 45.8 N21N
- 14699 FRITSCHKE, C., and COLLINS, D. O. Fur farming in wartime Germany. *Natl. Fur News* 20(10): 36, 89-91. Nov. 1948. 412.628 R59
- 14700 GIBSON, A. Fat lamb season; what of the future? *Country Life [Sydney]* 60(13, Fat Lamb Sup.): 19. Sept. 24, 1948. 286.85 Sy2
- 14701 GRAHAM, E. H. All phases of lamb production and marketing covered in Department's work. *Farmer & Settler Rev.* 1(5): 47. 23 F2262  
New South Wales Department of Agriculture.
- 14702 GREEN, R. R. Banking and livestock. *Kans. Banker* 38(10): 11, 13, 15, 17. Nov. 1948. 284.8 K13  
Outlook for the cattle industry.
- 14703 GUSLER, G. How about feeding lambs? *Mich. Farmer* 210: 289. Nov. 6, 1948. 6 M58  
Feed and lamb situation.
- 14704 HAND, J. A. Why not more lamb clubs? If Canada's sheep industry is to make a comeback it will be through the interest aroused in young farmers' clubs. *Family Herald & Weekly Star* 79(46): 12, 17. Nov. 17, 1948. 7 F21
- 14705 HART, S. H., and EMBREE, W. D., JR. Live-stock taxes under forced sale. *Cow Country* 76(4): 2-3. Sept. 27, 1948. 49 C83
- 14706 HERRLEIN, H. G. The guinea pig situation. *Amer. Small Stock Farmer* 32(12): 4-5. Sept. 1948. 48.8 J82
- 14707 HERZOG, H. Bericht über den zuchteber-import 1948 aus Deutschland des Schweiz. Zuchtverbandes für das Veredelte Landschwein. *Grüne* 76: 1105-1114. Oct. 15, 1948. 17 Sch9
- 14708 HOPPER, W. C. Livestock in Australia. *Overseas Rpt. Agr. Devlpmt.* 3, 2 p. Apr. 1948. 281.9 C1642O
- 14709 HOPPER, W. C. The production and marketing of Australian lamb and mutton. *Overseas Rpt. Agr. Devlpmt.* 1, 3 p. Apr. 1948. 281.9 C1642O
- 14710 JONES, J. M. What of the present and future picture in the sheep industry? *Sheepman* 19: 247, 259. Nov. 1948. 45.8 Sh32
- 14711 KELLOGG, C. E., and TEMPLETON, G. A. Effect of various factors on rabbitskins. *Amer. Rabbit J.* 18: 131-133. Oct. 1948. 40.28 Am3
- 14712 KIEFERS, H. Zum thema nutriafell und anderes! *Deut. Pelztierzucht* 22: 200-201. Nov. 15, 1948. 412.628 D48
- 14713 KILDEE, H. H. What is ahead for the hog producers of the United States? *Iowa Swine Breeders Dir.* 1948/49: 6-7, 28, 29, 31-32. 1948. 46.9 Io9
- 14714 KUBELKA, V. The story of leather in the history of European peoples. II. Ancient Greece and Rome. (In Czech.) *Tech. Hlídká Koželužská* 23: 252-255 (Cont.) Sept. 1948. 303.8 T22
- 14715 LINE, E. C. Leather industry in Bermondsey. *Leather Trades' Rev.* 90: 69-72. Oct. 13, 1948. 303.8 L48
- 14716 LIVESTOCK PRODUCTION AND MARKETING CONFERENCE. Report of conference, Jackson's Mill, W. Va., June 22-25, 1948. Washington, U. S. Ext. Serv., 1948. 19 p. 1.913 C3L752
- 14717 LLOVET MONT-ROS, J. Aspectos de la producción ganadera. *Cám. Ofic. Sind. Agr. de Barcelona. B.* 3: 59-61. Mar. 1948. 15 C14
- 14718 LOUDWIN, H. Der fellfachwart und seine aufgaben. *Kleintier-Zücht. Tierbörse* 2(44): 6-7. Sept. 25, 1948. 49 K672  
Rabbit industry.
- 14719 MCCULLOUGH, W. B. Livestock and live-stock products in Argentina, 1947. *Overseas Rpt. Agr. Devlpmt.* 13, 3 p. Sept. 1948. 281.9 C1642O
- 14720 MCKERIHAN, C. R. Excellent prospects forecast for lamb industry. *Farmer & Settler Rev.* 1(5): 6. Oct. 1948. 23 F2262  
In Australia.
- 14721 MASNER, L. The German leather industry (BIOS and FIAT reports). (In Czech.) *Tech. Hlídká Koželužská* 23: 234-251. Sept. 1948. 303.8 T22
- 14722 MAUNDER, J. C. J. The beef cattle industry in the far West. *Queensland Agr. J.* 67: 11-22, 108-114. (Cont.) July-Aug. 1948. 23 Q33
- 14723 MELONI, U. Production directions. (In Italian.) *Gaz. Agr. [Padova]* 26(1/2): 1. Jan. 17, 1947. 16 G254  
Livestock.
- 14724 MITCHELL, M. P. Cattle and lamb feeding outlook. *Purdue U. Agr. Ext. Econ. & Mktg. Inform.* Ind Farmers 1948: 1-3, 7. Sept. 18, 1948. 275.29 In2En
- 14725 MORRISON, F. B. Animal production in an efficient food economy. *Chron. Bot.* 11: 247-256. Ref. Summer 1948. 450 C46
- 14726 NETSCH, W. A. What the future holds for the sheep and lamb raiser. *Calif. Wool Grower* 24(47): 9, 13. Nov. 23, 1948. 45.8 C12



- 14727 NEVADA. STATE BOARD OF SHEEP COMMISSIONERS. Biennial report, 1946/47-1947/48. Carson City. 1948. 5 p. 45.9 N41
- 14728 NORDBY, J. E. Research has stabilizing influence in sheep production economy. West. Livestock Rptr. 9(8): 6-A. Oct. 13, 1948. 286.85 W523
- 14729 NORDFELDT, S. When to slaughter fattening swine. (In Swedish.) Försök och Forskning 5: 25-27. Apr. 1948. 11 F77  
Weight.
- 14730 OLIVE, J. P. Importance de l'élevage en France. Monit. Agr. 1(43): 6. Nov. 7, 1948. 14 M744
- 14731 PERRY, F. The fleece of the Karakul. Karakul J. 1(6): 8-9. May/June 1948. 45.8 K142
- 14732 PIEDRA, M. J. La verdad sobre el problema de la carne [Cuba]. Tierra Libre 12(10): 5. (To be cont.) Oct. 1948. 8 T443
- 14733 PRENTICE, A. C. Future of fur farming in North America. Natl. Fur News 20(10): 27, 100-102. Nov. 1948. 412.628 R59
- 14734 PRUNIER, R. Les possibilités de contribution du cheptel éthiopien au ravitaillement mondial. Acad. d'Agr. de France. Compt. Rend. 34: 840-844. June 30/July 7, 1948. 14 P215Bc
- 14735 RECEVEUR. L'élevage du cheval a fait de grands progrès au Tchad depuis dix ans. Courrier Agr. 13(19): 2. Sept. 15, 1948. 24 C83
- 14736 ROGERS, A. The consumer's stake in the West. Butchers' Advocate 124(18): 9-11. Nov. 3, 1948. 286.85 B97  
The cattle industry.
- 14737 RUSSELL, J. S. Farmers still cautious—no abundance of meat soon. Iowa Farm & Home Register 1948: 6-H. Dec. 5, 1948. 6 Io94
- 14738 SANDKÜHLER, W. Viehstand und dauergrünland. Landpost 4(4): 1-2. Feb. 25, 1948. 18 L2329 Germany.
- 14739 SCHEDL, H. Genug futter und doch kein schlachtvieh; auch die viehpreiserhöhung bringt keine besserung der fleischlage. Osterr. Fleischhauer- u. Fleischselcher-Ztg. 1948(43): 1. Oct. 23, 1948. 50.8 Os7
- 14740 SEXAUER, H. T. Livestock, backbone of the Northeast's agriculture. Northeast 1948: 7-9. Summer 1948. 284.28 N81
- 14741 SWIFT & COMPANY. Hog production and pork consumption in the United States. Swift & Co. Agr. Res. B. 14, 10 p. 1948. 50.8 Sw5
- 14742 SZÖLLÖSY, Z. L'évolution de l'effectif bétail de Hongrie. (In Hungarian.) Hungary. Központi Statis. Szemle 26(1/6): 28-38. Jan./June 1948. 266.5 St2M  
French summary, p. 104-106.
- 14743 TORTORELLI, N. A great national [Italian] problem: protection of the sheep-raising industry. (In Italian.) Gior. di Agr. 57: 13-14. Jan. 19, 1947. 16 It1G
- 14744 U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle feeding situation—November 1, 1948. Washington, 1948. 2 p. 1.9 Ec742Cat  
Statistics.
- 14745 WAGONER, J. F. A compilation of vegetable sole leather terminology. Shoe & Leather Rptr. 252(8): 39-46. (Cont.) Nov. 20, 1948. 303.8 Sh7
- 14746 WATSON, A. How the "waster" cavy trade could be made a national industry. Fur & Feather 3: 493. Oct. 1, 1948. 49 F96
- 14747 WILCOX, D. E. From kit to "chic". Northeast 1948: 25-26. Summer 1948. 284.28 N81  
Fur farming.

#### Analysis and Composition

- 14748 ALLEN, N. Color changes in fresh meat. Pre-Pack-Age 2(3): 22, 24. Nov. 1948. 280.38 P91  
Also in Pa. Meat Dealer 22(11): 18. Nov. 1948. 286.85 P38
- 14749 BOISSONNAS, R. A. Estéras. I-II. Helvet. Chim. Acta 31: 1571-1583. Oct. 15, 1948. 385 H36  
I. Dosage d'activité de la lipase de pancréas de porc;  
II. Purification partielle de la lipase de pancréas de porc.
- 14750 FISCHER, E. H., and BERNFELD, P. Sur les enzymes amylolytiques. VIII-IX. Helvet. Chim. Acta 31: 1831-1844. Oct. 15, 1948. 385 H36  
VIII. L' $\alpha$ -amylase de pancréas de porc cristallisée. IX. Stabilité et désactivation de l' $\alpha$ -amylase de pancréas de porc.
- 14751 HARRISON, D. L. Histological, physical, and organoleptic changes in three grades of beef during aging. Iowa State Col. J. Sci. 23: 36-38. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 14752 INGRAM, M., and BRYAN, J. M. The electro-metric estimation of chloride in meat products. II. Soc. Chem. Indus. J. 67: 359-361. Ref. Sept. 1948. 382 M31
- 14753 INGRAM, M. Fatigue musculaire, pH et prolifération bactérienne dans la viande. Inst. Pasteur. Ann. 75: 139-146. Aug. 1948. 448.3 An75
- 14754 KRITZINGER, C. C. Studies on globular proteins of animal skin. IV. Amer. Leather Chem. Assoc. J. 43: 675-690. Ref. Nov. 1948. 303.9 Am32
- 14755 MIHALYI, E. Lipoproteide aus rinderleber und milz. Hoppe-Seylers Z. f. Physiol. Chem. 282: 72-75. June 1947. 384 Z38
- 14756 PRUDENT, I. Collagen and elastin content of four beef muscles aged varying periods of time. Iowa State Col. J. Sci. 23: 72-74. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 14757 SCHMITT, F. O., and GROSS, J. Further progress in the electron microscopy of collagen. Amer. Leather Chem. Assoc. J. 43: 658-673. Ref. Nov. 1948. 303.9 Am32  
Discussion, p. 673-675.
- 14758 SELL, H. M., TAYLOR, B. M., and MILLER, E. J. The identification of the fatty acids of the fat from a North American black bear. Amer. Oil Chem. Soc. J. 25: 416-417. Ref. Nov. 1948. 307 J82

#### Distribution, Marketing, and Transportation

- 14759 BAILEY, J. W. Know what you are bringing home. Hoard's Dairyman 93: 889. Dec. 10, 1948. 44.8 H65  
Disease control in cattle purchases.
- 14760 DOWELL, A. A., and ENGELMAN, G. Marketing slaughter cattle by carcass weight and grade. Minn. U. Agr. Ext. Farm Business Notes 309: 1-2. Oct. 25, 1948. 275.29 M663
- 14761 EGGERT, R. J. The packers' view of marketing livestock products. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 125-127. 1948. 4 C82
- 14762 ENGELMAN, G., and others. Marketing hogs by weight and grade of carcass. Minn. Farm & Home Sci. [Minn. Sta.] 6: 1-2. Nov. 1948. 100 M668  
A. A. Dowell, E. F. Ferrin, and P. A. Anderson, joint authors.
- 14763 ENGELMAN, G., and DOWELL, A. A. Marketing slaughter hogs by carcass weight and grade. Minn. U. Agr. Ext. Farm Business Notes 309: 2-3. Oct. 25, 1948. 275.29 M663
- 14764 FALCIONI, A. C. Embarque y transporte de hacienda. Buenos Aires. Dir. de Med. Vet. B. 4(21/22): 8-16. 1947. 41.9 B865  
Livestock shipping.
- 14765 FUCHS, J. Das transportproblem bei der tierkörperbeseitigung. Wiener Tierärztl. Monatsschr. 34: 579-584. Oct. 1947. 41 T345
- 14766 HOULDSOON, E. C. Why not a rabbit-fur cooperative? Small Stock Mag. 32(12): 4-5. Dec. 1948. 48.8 P442
- 14767 KLAS, J. H. New lamb sales promotion. Mont. Wool Grower 22(11): 6. Nov. 1948. 45.8 M762
- 14768 KLAUS, E. Stellungnahme des BLHV zur vieh-abgabe. Landpost 4(11): 5. June 10, 1948. 18 L2329 Germany.
- 14769 KONIG, A. F. A. Your town is your milk market. Dairy Goat J. 26(11): 7. Nov. 1948. 40.18 M592
- 14770 LANDON, H. I. What is cooperative marketing? Amer. Fur Breeder 21(4): 8, 10, 14, 16, 18. Oct. 1948. 410 Am33
- 14771 LOMBARDO, R. A. El rendimiento en carne limpia y los negocios en tablada nacional. Diversos factores que influyen sobre el rendimiento e importancia de éste, en la venta y mejoramiento de la ganadería de carne, en nuestro país. Uruguay. Dir. de Ganad. B. Mens. 30: 140-165. Apr./June 1948. 41.9 Ur8
- 14772 LOWRY, R. K. How to sell dogs. All-Pets Mag. 19(10): 35-36. Oct. 1948. 48.8 AL5
- 14773 NORTHERN IRELAND. PIGS MARKETING BOARD. Annual report and accounts, 1947. Belfast, 1948. 4 p. 280.3469 N81



14774 PEMBERTON, R. L. Swine type and marketing practices. West. Livestock Rptr. 15: 25-26. Dec. 1, 1948. 286.85 W523

14775 PETERSEN, MRS. W. Cooperatives are the answer. Small Stock Mag. 32(12): 20-21. Dec. 1948. 48.8 P442  
Rabbits.

14776 PYNE, GOULD, GUINNESS LTD. Annual review, season 1947-48. Christchurch, 1948. 41 p. 286.85 P99

Reviews the wool, livestock, meat and other markets.

14777 REISNER, L. Million dollar co-op; Adams County Livestock Association is still a baby but has marketed record number of hogs in first year. Ill. Agr. Assoc. Rec. 26(10): 14. Oct. 1948. IL62

14778 ROBINSON, J. L. Equity livestock spreads out. News Farmer Coops. 15(9): 5-6, 21. Dec. 1948. 166.2 N47

Equity Cooperative Livestock Association.

14779 SPARKMAN, H. C. Locker plant aids sales of meats. Canad. Grocer 62(21): 30-31. Nov. 1, 1948. 286.83 C162

14780 STARKE, J. S. Weight losses in slaughter stock during transit. Farming So. Africa 23: 535-536, 546. Aug. 1948. 24 S0842

14781 SWIFT & COMPANY. AGRICULTURAL RESEARCH DEPT. Branch house service. Swift & Co. Agr. Res. Dept. Informative B. 2, 7 p. 1948? 50.9 Sw52

14782 TUFF, P. Defects in livestock. (In Norwegian.) Norsk Landbr. 14: 407-409. Nov. 12, 1948. 11 N8122

Marketing.

14783 WILLS, W. J. Marketing costs in selling feeder cattle. Ill. Farm Econ. 161: 737-739. Oct. 1948. 275.28 IL5

#### Grading, Inspection, Standardization, and Quality

14784 BLANCHARD, L., PANTALÉON, J., and POISSON, J. Sur le chlore musculaire des bovins adultes. Evaluation de l'infiltration séreuse musculaire en inspection des viandes. Acad. Vét. de France. B. 21: 283-288. July 1948. 41.9 R24

14785 CONWAY, H. M. Meat control threat is further gumming up production machinery. Live Stock Prod. 27(3): 9. Dec. 1948. 280.38 N21

14786 DAHL, O. Feeder cattle and meat quality - the butchering point of view. (In Swedish.) Ladugården 1948: 175-179. Sept. 1948. 44.8 L12

14787 GLASSER. "Ist die bakteriologische fleischuntersuchung überholt?"; erwidern auf den artikel von professor Dr. Standfuss in der TU. 1946 S. 18. Tierärztl. Umschau 2: 53-57. Mar. 1947. 41.8 T445

14788 HAGEN, K. Zum trichinenproblem. Berlin. u. München. Tierärztl. Wochenschr. 1947: 146-148. Ref. Dec. 1947. 41.8 B45

In pork.

14789 KEFFORD, J. F. Effect of ozone on microbial growth on beef muscle, and on the flavour of beef fat. Austral. Council Sci. & Indus. Res. J. 21: 116-140. Ref. May 1948. 514 Au72J

14790 KOSIK, O. Grading of powdered meat, imported for the manufacture of soup spices. (In Czech.) Casopis Českoslov. Vet. 3: 540-543. Sept. 25, 1948. 41.8 C27

14791 MEYER, R. K. C. W. Ausführungsbestimmungen A zum fleischbeschaugesetz vom 29.10.1940, mit ausführlichen erläuterungen und technische hinweisen. Berlin, Schoetr, 1948. 220 p. 50 M572

14792 NIEDEREHE, H. Zur frage der eindosierung von freibankfleisch. Tierärztl. Umschau 2: 287-289. Dec. 1947. 41.8 T445

14793 NIVEN, C. F., JR. Further studies on greenish discolorations of sausage. Amer. Meat Inst. Found. B. 1, 8 p. Feb. 1948. 50.9 Am322

14794 NIVEN, C. F., JR. Green ring spoilage in sausage. Canad. Food Indus. 19(11): 32-33. Nov. 1948. 286.83 C166

14795 OSTERTAG, R. VON. Lehrbuch für fleischbeschauer; eine anweisung für die ausbildung und für die amtlichen prüfungen sowie ein nachschlagebuch für die tätigkeit der fleischbeschauer. Ed. 26, ed. by V. Goerttler. Berlin, Schoetz, 1948. 324 p. 50 Os7L

14796 REICHE, A. Kann man das fleisch von vergifteten tieren essen? Tierärztl. Umschau 2: 262-263. Nov. 1947. 41.8 T445

14797 USINGER, A. Wissenswertes für den pelztierzüchter aus der welt des kürschners. Deut. Pelztierzucht 22: 195-198. Nov. 15, 1948. 412.628 D48

#### Packing and Packaging

14798 BONINI, J. Improving profits by meat packing. Canad. Food Indus. 19(11): 28-29, 31. Nov. 1948. 286.83 C166

14799 BURSE, L. T. Improved package ups sales of meats. Quick Frozen Foods 11(4): 73-74. Nov. 1948. 389.8 Q4

14800 ROCHMANN, R. Packaging of fur. (In Norwegian.) Norsk Pelsdyrb. 22: 322-323. Oct. 20, 1948. 412.628 N812

14801 URBAIN, W. M., and RAMSBOTTOM, J. M. Controlling quality changes in cured meats by packaging. Food Res. 13: 432-439. Sept./Oct. 1948. 389.8 F7322

#### Prices, Price Control, and Rationing

14802 BUTZ, V. Oskvig sells meat, not cattle; price paid is based on dressing percentage and grade as determined by a Federal grader. Successful Farming 46(12): 126, 128-130. Dec. 1948. 6 S12

14803 COHEN, R. Who is to blame? Pa. Meat Dealer 22(11): 22. Nov. 1948. 286.85 P38  
Meat prices.

14804 CURMAN, J. Causes of variation in sale prices of Swedish young bulls. (In Swedish.) Lantbruksakad. Tidskr. 87: 253-268. 1948. 104 Sw3  
English summary.

14805 FRENCH, H. W. Feeders and producers think sharp breaks are now over. Amer. Cattle Prod. 30(6): 14, 16, 18. Nov. 1948. 49 P94

14806 GREEN, R. R. Says livestock prices should remain at favorable levels. Bank News 48(56): 15-16, 41-42. Nov. 15, 1948. 284.8 B224

14807 HARDENBERGH, W. How law of supply and demand works on meat prices. Food Retailing 141(8): 16. Nov. 1948. 286.85 B974

14808 HAZLITT, H. Meat and the price system. Newsweek 32(23): 70. Nov. 29, 1948. 280.8 N47

14809 NORTH CENTRAL LIVESTOCK MARKETING RESEARCH COMMITTEE. Price differentials for slaughter hogs. Iowa. Agr. Expt. Sta. B. P93, p. 55-128. Aug. 1948. 100 Io9

14810 QUAIFE, E. L. Weight as a factor in the price of hogs. Iowa Swine Breeders Dir. 1948/49: 8-11. 1948. 46.9 Io9

14811 REISNER, L. What about livestock prices? Ill. Agr. Assoc. Rec. 26(10): 10, 34. Oct. 1948. 6 IL62

14812 TRAINE, A. G. Wool and meat price outlook reviewed. Farmers' Weekly [Perth] 2(12): 7. Sept. 30, 1948. 23 F227

#### Processing and Storage

14813 AINSLEY, F. C. Output trebled, costs cut in canned meatball operation. Food Indus. 20: 1731-1735, 1871-1872. Dec. 1948. 389.8 F737

14814 ALBERTA. DEPT. OF AGRICULTURE. EXTENSION SERV. Dressing and curing pork on the farm. Alberta. Dept. Agr. Ext. Serv. B. 53, rev., 24 p. July 1948. 275.29 AL122

14815 BEDENBAUGH, P. G., and RICHMOND, W. L. Methods of curing pork are studied. Miss. Farm Res. [Miss.Sta.] 11(11): 1, 7. Nov. 1948. 100 M69M

14816 BOMBAY (PRESIDENCY) PROVINCIAL INDUSTRIES COMMITTEE. MISCELLANEOUS INDUSTRIES SUB-COMMITTEE. Report. Bombay, 1947. 64 p. 309 B6364

Includes the tanning industry.

14817 BURT, D. S. Meat, men, and the tin can. IV. Packaging Systems 4(9, i. e. 10): 25-26. Nov. 1948. 309.8 P126

History of the meat canning industry.

Also in Butchers' Advocate 124(23): 8-13, 23. Dec. 8, 1948. 286.85 B97

14818 CROWN, R. M., and FRANCONI, J. B., JR. A method of curing pork under farm conditions without refrigeration. (Ags.) Assoc. South. Agr. Workers. Proc. 45: 107. 1948. 4 C82



- 14819 CZARNECKI, J., and others. Meat products; edited by H. A. Conway and A. I. Meyer. U. S. Quartermaster Corps. Quartermaster Food and Container Inst. Armed Forces. Oper. Studies 1(11), 110 p. 1948? 152.7 Op2
- J. C. Pierce, Jr., J. H. White, and B. W. Gardner, Jr., joint authors.  
Contains chapters on frozen, cured and smoked, and canned meats.
- 14820 ESTEBAN, M. Curtido de pieles. Cooperación 7(75/76): 6-7. (To be cont.) May/June 1948. 280.28 C7875
- 14821 FALCIONI, A. C. Conservación de carnes: ahumado. Res 16: 22985-22986. Nov. 5, 1948. 286.85 R31
- 14822 GEHNRIKH, H. Smokehouse design trends. Natl. Provisioner 119(20): 12-13, 19. Nov. 13, 1948. 286.85 N21
- 14823 GERRARD, F. Sausage and small goods production; a practical handbook on the manufacture of sausages and other meat products. Ed. 3. London, Hill, 1948. 208 p. 50 G323
- 14824 HAYNES, R. D. What about electric smoke-houses? Locker Mangt. 2(12): 26-29. Dec. 1948. 389.8 L79
- 14825 HENNEBERG, O. H. Soja und fleisch. Wiener Tierärztl. Monatsschr. 34: 618-636. Ref. Nov. 1947. 41 T345
- Nutritive value of soybeans, and their addition to meat products, particularly sausage.
- 14826 KALLERT, E. Erfahrungen über die Verarbeitung von Schweinen und Rindern zu Dauerfleisch. Tierärztl. Umschau 2: 256-257. Nov. 1947. 41.8 T445
- Meat salting.
- 14827 MANN, I. Corned beef made in Africa. (In Polish.) Med. Wet. 4: 609-616. Oct. 1948. 41.8 M463
- 14828 MUCCIOLO, P. Dried meat and the national economy. (In Portuguese.) Rev. dos Criadores 19(6): 95-97. June 1948. 43.8 R32
- Brazil.
- 14829 O'FLAHERTY, F. Advances in leather technology. Shoe & Leather Rptr. 252(7): 10, 12-15. Nov. 13, 1948. 303.8 Sh7
- Also in Leather & Shoes 116(20): 19-21. Nov. 13, 1948. 303.8 H53
- 14830 PIETTRE, M. Un grand abattoir frigorifique franco-éthiopien à Djibouti. Acad. d'Agr. de France. Compt. Rend. 34: 838-840. June 30/July 7, 1948. 14 P215Bc
- 14831 PIETTRE, M. Stock de sécurité de viandes congelées pour la soudure 1949 à l'abri de toute nouvelle spéculation. Acad. d'Agr. de France. Compt. Rend. 34: 809-813. Ref. June 30/July 7, 1948. 14 P215Bc
- 14832 SAGOSCHEN, J. A. Problèmes d'actualité pour la technique de la tannerie. Rev. Tech. des Indus. du Cuir 40: 181-186. (Concl.) Sept. 1948. 303.8 C89
- 14833 SIMONCINI, E. Tanning extracts. (In Italian.) Cuoi-Pelli-Materie Concianti 24: 85-89. (Cont.) Aug. 1948. 303.8 It1
- 14834 TEFFT, H. D. Significant developments in the meat packing industry. Food Indus. 20: 1600-1604, 1713-1714. Nov. 1948. 389.8 F737
- 14835 TEMPLE, T. H. Packing industry by-products. O. A. C. Rev. 61: 76-78. Nov. 1948. 276.8 On8
- 14836 WALDIE, W. J. Processes relating to the woolled sheep industry. Textile J. Austral. 23: 568-576. Sept. 20, 1948. 304.8 T3134
- Processing of hides and skins.
- 14837 WATTS, B. M., PENG, D. H., and KLINE, E. A. Precooking pork for freezing storage. J. Home Econ. 40: 579-581. Ref. Dec. 1948. 321.8 J82

#### Statistics

- 14838 HARTARD EBERT, M. Existencia de ganado vacuno en el país. Campesino [Santiago] 80(10): 33. Oct. 1948. 9.3 So12
- 14839 JONES, F. W., and KOPELSON, A. R. Pigs, calves and the meat supply. Natl. Indus. Conf. Bd. Business Rec. 5: 401-405. Oct. 1948. 280.9 N216Cb
- Statistics.
- 14840 SHELDON, W. B. International fur farm production figures. Amer. Fur Breeder 21(4): 62, 64, 66, 68. Oct. 1948. 410 Am33

- 14841 U. S. BUR. OF AGRICULTURAL ECONOMICS. Lamb feeding situation, November 1, 1948. Washington, 1948. 2 p. 1.9 Ec742Lam
- Statistics.
- 14842 U. S. EXTENSION SERV. Pattern of slaughter and meat production under Federal inspection, 1943-47, by P. L. Fletcher. Washington? 1948. 20 p. 1.913 A2P27
- Statistics.

#### OILS AND OILSEEDS

- 14843 ALLRED, C. E. Cottonseed marketing. (Abs.) Assoc. South Agr. Workers. Proc. 45: 14. 1948. 4 C82
- 14844 ARTHUR, J. C., Jr., and others. PMot-plant manufacture of peanut protein. Amer. Oil Chem. Soc. J. 25: 398-400. Ref. Nov. 1948. 307 J82
- A. J. Crovetto, L. J. Molaison, W. F. Guilbeau, and A. M. Altschul, joint authors.
- 14845 BALESTRINI, G. Determination of the pH of oils and fats at high acidity. (In Italian.) Olearia 2: 547-556. Aug./Sept. 1948. 307.8 OL2
- 14846 BASTIDE, M. Étude sur la margarine. Porc 19(6): 49, 51. Aug./Sept. 1948. 46.8 P822
- 14847 BERGAMINO GIURIA, A. Obtención de esencias de citrus. Uruguay. Min. de Ganad. y Agr. B. Inform. 5(231): 6; (232): 8-9. (Cont.) Aug. 12, 19, 1948. 9.9 G15B
- 14848 BIRDSONG, W. Education, research, advertising, prime needs of peanut industry. Southwest Growers News 8(6): 1, 6. Sept. 1948. 77.8 So8
- 14849 BONHORST, C. W., ALTHOUSE, P. M., and TRIEBOLD, H. O. Esters of naturally occurring fatty acids. Indus. & Engin. Chem. 40: 2379-2384. Ref. Dec. 1948. 381 J825
- 14850 BUZI, C. C. Notable improvement in Ligurian extraction. (In Italian.) Olivicoltura 3(8): 1-6. Aug. 1948. 80 OL42
- 14851 BUZI, C. C. Official classification of olive oils. (In Italian.) Olivicoltura 3(9): 1-5. Sept. 1948. 80 OL42
- 14852 CARTER, D. G., and HOLMAN, L. E. Storing soybeans on the farm; factors affecting quality. Ill. Agr. Col. Ext. AG1348, p. 17-20. Dec. 30, 1947. 275.29 IL62Pag
- 14853 CARTTER, J. L. The soybean improvement program of the Bureau of Plant Industry, Soils, and Agricultural Engineering. Ill. Agr. Col. Ext. AG1348, p. 13-14. Dec. 30, 1947. 275.29 IL62Pag
- 14854 CASS, W. G. Edible flour from oilcake. I. Food Manufacture 23: 513-515. Nov. 1, 1948. 389.8 F736
- 14855 CHANNON, H. J. The world supply of fats. Brit. J. Nutr. 2: 176-184. 1948. 389.8 B773
- 14856 CLOPTON, J. R., ROBERTS, A., and JESKEY, H. A. Chemical studies on oil bearing seeds. I. Okra-seed. Amer. Oil Chem. Soc. J. 25: 401-404. Nov. 1948. 307 J82
- 14857 DALTON, J. Mystery of tung oil solidification. China Trade Monthly 2: 451, 480. May 1948. 286.8 C44
- 14858 DESCH, H. E. Groundnuts Scheme: is it sound or dangerous? Crown Colonist 18: 603-604. Nov. 1948. 280.8 C88
- 14859 DUTTON, H. J., and others. The flavor problem of soybean oil. IV. Amer. Oil Chem. Soc. J. 25: 385-388. Ref. Nov. 1948. 307 J82
- A. W. Schwab, H. A. Moser, and J. C. Cowan, joint authors.
- 14860 ECKARDT, A. Die sojabohne. Kurzbrieft f. Ernähr. u. Landw. 1948(9): A II 4, 6 p. (To be cont.) Sept. 1948. 281.8 K96
- 14861 FERRAND, M. Le centenaire du palmier a huile (Elaeis guineensis) en Extrême-Orient. Oléagineux 3: 546-547. Nov. 1948. 77.8 OL2
- 14862 FERRARA, A. Production and trade of fats in Oceania. (In Italian.) Olearia 2: 570-581. Aug./Sept. 1948. 307.8 OL2
- 14863 FREITAS, M. S. G. DE. Argentine oils. (In Portuguese.) Rev. Agron. 12: 78. Apr./June 1948. 9.2 R325



- 14864 GAROGLIO, P. G. Correspondence from Argentina. (In Italian.) *Olearia* 2: 592-597. Aug./Sept. 1948. 307.8 OL2  
Olive industry.
- 14865 GAUTIER, J. Notable contribution possible des zones cotonnières de l'A. E. F. à la production des huiles végétales. *Marchés Colon.* 4: 1777-1779. Sept. 25, 1948. 286.8 M33
- 14866 GOSS, W. H. Processing edible fats. *Indus. & Engin. Chem.* 40: 2247-2251. Ref. Dec. 1948. 381 J825
- 14867 GUINOT, R. L'olivier, ses qualités commerciales. *Rustica* 21: 731. Oct. 10, 1948. 14 R92
- 14868 GUSLER, G. Will it pay to hold soybeans? *Ohio Farmer* 202(9): 12-13. Nov. 6, 1948. 6 Oh3
- 14869 HAFELI, J. M. Tung oil—its past, present and future. *By Gum* 19(5): 7, 10-13. Aug./Sept. 1948. 309.8 B99
- 14870 HARRIS, W. D. Developments in processing cottonseed. *Chemurg. Digest* 7(11): 9-12. Nov. 1948. 381 N213Na
- 14871 HATT, H. H. Fatty acids. *Austral. Chem. Inst. J. & Proc.* 15: 309-326. Ref. Sept. 1948. 385 Au72
- 14872 HIGGS, C. Ground nuts: 9 months later. *Farmer & Stock-Breeder* 62: 2654-2655. Nov. 16, 1948. 10 F228  
Situation in regard to the peanut production scheme in Africa.
- 14873 HINKO, T. Lichtschädigung der fette. *Österr. Milch- u. Fettwirtschaft* 3: 174-176. Aug. 1948. 44.8 Os72
- 14874 HOLLAND, B. R., and MEINKE, W. W. Chinese tallow nut protein. I. *Amer. Oil Chem. Soc. J.* 25: 418-419. Ref. Nov. 1948. 307 J82
- 14875 HOLLOWELL, E. G. Commercial extraction of soybean oil using non-inflammable solvents. *Iowa State Col. J. Sci.* 23: 41-43. Oct. 1948. 470 Io9  
Abstract of thesis (Ph. D.)—Iowa State College.
- 14876 HOOFDBEDRIJFSCHAP VOOR ZUIVEL, MARGARINE, VETTEN EN OLIËN. Statistisch Jaaroverzicht [Statistical review], 1946. n. p. 1947. unpagged. 259 H76
- 14877 IGOLEN, G. Geranium oil in Algeria. (In Italian.) *Riv. Ital. Essenze-Profumi-Piante Off.-Olii Veg.-Saponi* 30: 367-368. Sept. 15, 1948. 308.8 R52
- 14878 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Soybean Processors' Conference, University of Illinois, April 25, 1947. Ill. Agr. Col. Ext. AG1348, 32 p. Dec. 30, 1947. 275.29 IL62Pag
- 14879 INGERSOLL, B. New developments increase sunflower product. Ill. Agr. 53(3): 15. Dec. 1948. 6 IL6
- 14880 KELLER, J. C. Peanut market at support. *Peanut J. & Nut World* 28: 35. Nov. 1948. 77.8 P313
- 14881 KRETZSCHMAR, K. L'industrie de l'huilerie en Europe (Europe occidentale et septentrionale). *Oléagineux* 3: 518-522. Nov. 1948. 77.8 OL2  
English summary, p. 571-572.
- 14882 LEONT'EV, I. F. Chemistry of oil from watermelon seeds. (In Russian.) *Priroda* 37(5): 37. Ref. May 1948. 410 P933
- 14883 LONG, J. Le carthame. *Terre d'Oc* 30: 368-373. Sept. 1948. 14 Ar5
- 14884 LUN, Y. P. Problems of improving the output and marketing of tung oil. (In Chinese.) *Monthly Farmers' Bank China* 9(5): 34-37. May 1948. 281.9 F225M
- 14885 MCKERN, H. H. G., and SMITH-WHITE, S. An improved distillation apparatus for the determination of the essential oil content of plant material. *Austral. Chem. Inst. J. & Proc.* 15: 276-278. Aug. 1948. 385 Au72
- 14886 MADRAS. BOARD OF REVENUE (CIVIL SUPPLIES). Statistics, crop, groundnut, 1947, fourth or final report. Madras, 1948. 1 p. 77.9 In22G
- 14887 MARASCHINI, F. New method of refractometric determination in fats of forage substances. (In Italian.) *Riv. Ital. Essenze. Profumi, Piante Off., Olii Veg., Saponi* 30: 343. Aug. 15, 1948. 302.8 R52
- 14888 MARINUCCI, M. The olives of Sabina. (In Italian.) *Olivicoltura* 3(9): 6-8. Sept. 1948. 80 OL42
- 14889 M'BILA, M. L'extraction de l'huile de palme. *Rev. Colon. Belge* 3: 174-176. Mar. 15, 1948. 110 R324
- 14890 MELONI, U. Is the soybean only an oil plant? (In Italian.) *Gaz. Agr. [Padova]* 26 (3/4): 1. Jan. 31, 1947. 16 G254
- 14891 MUCCIOLO, P., RIBEIRO, P. A., and BONOLDI, V. Iodometric determination of peroxide values in cotton seed oil, lard and butter. (In Portuguese.) *São Paulo U. Facul. de Med. Vet. Rev.* 3: 271-282. June 1948. 41.8 Sa6  
English summary.
- 14892 NISBET, J. C. Oleomargarine or dairying—Ohio law is the key to regulation of butter imitations. *Ohio Farmer* 202(9): 8-9. Nov. 6, 1948. 6 Oh3
- 14893 NOWAK, W. Fisch und fett. Kurzbrieft f. Ernähr. u. Landw. 1948(9): B IV 1, 2 p. Sept. 1948. 281.8 K96
- 14894 O'CONNOR, R. T., HEINZELMAN, D. C., and JEFFERSON, M. E. Application of the line-width method to the spectrochemical analysis of oils, fats, and related substances. *Amer. Oil Chem. Soc. J.* 25: 408-414. Nov. 1948. 307 J82
- 14895 OTERO AENLLE, E., and GARCÍA FERNÁNDEZ, S. Espumación de las sales alcalinas de algunos ácidos grasos. *Soc. Españ. de Fís. y Quím. An. Ser. B. Quím.* 44: 191-214. Feb. 1948. 385 So16  
English summary.
- 14896 PAARLBERG, D. Prices of butter, lard, and cottonseed oil. N. Y. (Cornell) Agr. Expt. Sta. Mem. 281, 59 p. Oct. 1948. 100 N48C
- 14897 PAPAIOANNOU, P. Olive industry in Cyprus. *Countryman [Nicosia]* 2(5): 5-6. May 1948. 22.5 C83
- 14898 PAULA, R. D. DE G. The peanut, a food of unusual value. (In Portuguese.) *Rev. de Quím. Indus.* 17(197): 21-26. Sept. 1948. 385 R324
- 14899 REICH, E. P. Olives—from the tree to the American table. *Food Mart News* 12(22): 12. Dec. 1, 1948. 286.28 F732
- 14900 RIETHUS, H. Der tabak als fettquelle für die menschliche ernährung. *Natur u. Nahr. Ausg. B* 2(13/14): 67-68. July 1948. 80 N218B
- 14901 RIETHUS, H. Zur gewinnung von öl aus tabaksamen. *Natur u. Nahr. Ausg. B* 2(15/16): 78-79. Aug. 1948. 80 N218B
- 14902 SANTOS, A. C. V. T. DOS. The problem of oils and oilseeds in Angola. (In Portuguese.) *Activ. Econ. de Angola* 19: 13-54. May 1948. 280.8 Ac82  
English summary, p. 88-89.
- 14903 SCHAPHORST, W. F. Let belts stretch naturally. *Cotton Gin & Oil Mill Press* 49(24): 16. Nov. 27, 1948. 304.8 C822
- 14904 SCOFIELD, F. The uses of soybean oil in the paint industry. I. Present knowledge concerning the use of soybean oil in house paint. *Natl. Paint, Varnish and Lacquer Assoc. Sci. Sect. C.* 725: 9-13. May 1948. 306.9 P162C
- 14905 SOROA, J. M. DE. Situación aceitera. *Surco [Madrid]* 7(77): 4. July 1948. 15 Su7
- 14906 SOUZA, A. H. DE. Considerations on the extraction of vegetable oils. (In Portuguese.) *Chacaras e Quintais* 78: 299. Sept. 15, 1948. 9.2 C34
- 14907 STRAND, E. G. Once a rare plant, soybeans are now the leading oil crop. *Agr. Situation* 32(12): 12-14. Dec. 1948. 1 Ec7Ag
- 14908 TINDALL, C. Soybeans move South again to help the cotton grower. *Mo. Ruralist* 89(20): 5, 24. Oct. 23, 1948. 6 R8891
- 14909 TORQUAT, A. DE. De l'importance et du rôle de l'huile dans la fabrication des conserves. *Oléagineux* 3: 523-524. Nov. 1948. 77.8 OL2  
English summary, p. 572.
- 14910 TORRES, C. B. Encouragement of olive culture; a few points of interest to be considered. (In Portuguese.) *Rev. Agron.* 12: 74-77. Apr./June 1948. 9.2 R325
- 14911 TYLER, L. D. Higher yields of better oils by continuous alkali refining. II. *Food Indus.* 20: 1618-1621. Nov. 1948. 389.8 F737
- 14912 WALKER, D. B. Problems of the soybean processor. Ill. Agr. Col. Ext. AG1348, p. 31-32. Dec. 30, 1947. 275.29 IL62Pag
- 14913 WIDDIFIELD, R. B. Grain standards have been adopted for sunflowers and safflowers. *Dakota Farmer* 68(22): 12. Nov. 20, 1948. 6 D14
- 14914 WILKINS, C. S. Factors determining the price of peanuts. *Peanut J. & Nut World* 28: 33, 42. Nov. 1948. 77.8 P313



14915 WILKINS, C. S. The future of the peanut industry. *Peanut J. & Nut World* 28(2): 29. Dec. 1948. 77.8 P313

#### POULTRY AND POULTRY PRODUCTS

14916 ANADÓN PINTO, R. Control de la frescura del huevo y su estampillada. *Lérida Canad.* 3: 149-156. Ref. July 1948. 41.8 L56

14917 BALDWIN, J. D. A suggested plan for poultry and egg production and marketing in Kentucky. *Ky. Agr.* B. 5(9): 5, 8. Oct. 1948. 280.38 K41

14918 BARR, A. T. Pin money or profits from eggs? *Purdue U. Agr. Ext. Econ. & Mktg. Ind. Farmers* 1948: 6-7. Sept. 18, 1948. 275.29 In2En  
Egg prices.

14919 BASTOS, H. M. Let us eat more eggs! (In Portuguese.) *Chacaras e Quintais* 78: 313-317. Sept. 15, 1948. 9.2 C34  
The Brazilian egg industry.

14920 BRADFORD, H. W. Smart selling seasons turkey co-op. *News Farmer Coop.* 15(8): 12-14. Nov. 1948. 166.2 N47

Norbest Turkey Growers Association of Salt Lake City.

14921 CARLIN, M. A. F. Effect of freezing on tenderness and on ice crystal formation in poultry after various periods of aging. *Iowa State Col. J. Sci.* 23: 23-24. Oct. 1948. 470 Io9

Abstract of thesis (Ph. D.)—Iowa State College.

14922 CAVERS, J. R. Export trade and keener competition. *Milling & Feed* 29(12): 26. Dec. 1948. 298.8 C162

Canadian poultry industry.

14923 CAVERS, J. R. Quality and efficiency increasingly important in Canadian poultry production. *O. A. C. Rev.* 61(1): 54. Oct. 1948. 276.8 On8

14924 COLEMAN, G. E., JR. More money for broilers. *Amer. Egg & Poultry Rev.* 9(12): 42-43. Nov. 1948. 47.8 Am38

14925 COOK, R. Looking ahead in broiler production. *Md. State Poultry Council. Proc.* 1947: 13-14. 1948. 47.9 M36P

14926 COUCHMAN, R. Hens for nothing. *Calif. Farmer, North. Ed.* 189: 480. Dec. 4, 1948. 6 C126  
Marketing cull hens.

14927 CRANCROSS, J. W. Survey shows way to [poultry] profits. *N. J. Farm & Gard.* 19(12): 34, 36-37. Dec. 1948. 6 G162

14928 DEITEMEYER, C. Nebraska's young broiler industry. *Nebr. Farmer* 90(20): 1, 48, 49. Oct. 16, 1948. 6 N27

14929 DOMINGUES, O. The egg of good quality. (In Portuguese.) *Rev. Agron.* 12: 87. Apr./June 1948. 9.2 R325

14930 EBBELL, VIII. Weltkongress für Geflügelzucht in Kopenhagen. *Geflügelhof* 11: 603. Sept. 24, 1948. 47.8 G276

14931 FLAHERTY, F. Can we support our hens? Stimulated by increased exports to the United Kingdom, the Canadian egg and poultry business has experienced unusual prosperity. Can this prosperity be supported if exports shrink. *Canad. Business* 21(12): 46-47, 112. Dec. 1948. 287 C162

14932 FLOREA, J. H. Discusses problems and programs. *Amer. Egg & Poultry Rev.* 9(12): 50-54. Nov. 1948. 47.8 Am38  
Ohio Poultry Industries conference.

14933 FLOREA, J. H. What's ahead in 1949? It looks like a banner year for poultrymen. *Poultry Tribune* 54(11): 10, 25-27. Dec. 1948. 47.8 P8642

14934 FREEMAN, C. E. D. W. Are eggs too large? *Poultry Farmer [London]* 119(3093): 4. Oct. 15, 1948. 47.8 F312

14935 GHIGI, A. Impressions at the World's Poultry Congress. (In Italian.) *Gior. di Agr.* 58: 311-312. Nov. 7, 1948. 16 It1G

14936 GUSLER, G. Turkey market outlook. *Mont. Farmer-Stockman* 36(5): 6, 20. Nov. 1, 1948. 6 M764  
Also in *Ohio Farmer* 202(10): 20, 21. Nov. 20, 1948. 6 Oh3

14937 HADLINGTON, E. The poultry industry in other countries. *Poultry Farmer [Sydney]* 16(15): 11-12, 17-18. Oct. 9, 1948. 280.28 Or32

14938 HAMMOND, W. R. M. Produce—or perish! *Poultry Indus.* 13: 403-404. Oct. 15, 1948. 47.8 P8644  
Policy of poultry industry in Great Britain.

14939 HERHOLDT, J. F. Grading as an aid to the Delaware broiler industry. *Del. Poultry Handb.* 3: 40. 1948. 47.9 D37

14940 HERRICK, L. W. The growing turkey market. *Carolina Co-op.* 26(11): 11-12. Nov. 1948. 72.8 N81

14941 HILLIG, F. Determination of water insoluble fatty acids in dried eggs. *Assoc. Off. Agr. Chem. J.* 31: 731-734. Nov. 15, 1948. 381 As7

14942 HOLMSTRÖM, S. Egg production is of greater production value than a normal bread grain crop. (In Swedish.) *Lantmannen* 32: 216-217. Mar. 27, 1948. 11 L234

Statistics of poultry population, and volume, value and consumption of eggs in Sweden.

14943 HOOD, K. Future markets of the Northeastern poultryman. *Md. State Poultry Council. Proc.* 1947: 14-17. 1948. 47.9 M36P

14944 HOUT, F. VAN. Expansion of the goose keeping industry in Belgium. (In Flemish.) *Cult. en Handel* 14: 182-183. Mar. 1948. 80 C892

14945 JOHNSON, H. A. A method of predicting numbers of hens and pullets on Indiana farms January 1. *J. Farm Econ.* 30: 756-761. Nov. 1948. 280.8 J822

14946 KAUFFMAN, H. H. Looking ahead in turkey production and demand. *Md. State Poultry Council. Proc.* 1947: 4-8. 1948. 47.9 M36P

14947 KISH, A. F. Eggs and broilers go together. *N. J. Farm & Gard.* 19(12): 38, 40-41. Dec. 1948. 6 G162

14948 KNAPP, G. W. Solving problems; how the job from buying chicks to selling eggs has had the bars to success and profit removed. *Poultry Herald* 60(9): 4, 14. Nov. 1948. 47.8 P862

14949 KREWATCH, A. V. New electric gimmick washes eggs. *Elect. on the Farm Mag.* 21(9): 12, 36. Nov. 1948. 335.8 EL27

14950 KRIESEL, H. C., and ROGERS, G. B. Turkey prospects; a survey of the fall market and a look into the future. *Southeast. Poultryman* 1(3): 6-7, 13. Sept. 1948. 47.8 So872

14951 KUIKEN, K. A., LYMAN, C. M., and HALE, F. The effect of feeding isopropanol extracted cottonseed meal on the storage quality of eggs. *Poultry Sci.* 27: 742-744. Ref. Nov. 1948. 47.8 Am33P

14952 KUMMEROW, F. A., HITE, J., and KLOXIN, S. Fat rancidity in eviscerated poultry. II. The effect of variation in diet on the characteristics of the fat extracted from immature turkeys. *Poultry Sci.* 27: 689-694. Nov. 1948. 47.8 Am33P

14953 LAWLER, E. A. Eire's egg and poultry expansion plan develops. *Amer. Egg & Poultry Rev.* 9(12): 58-59. Nov. 1948. 47.8 Am38

14954 LEPPER, H. A., and HILLIG, F. Succinic acid in decomposed egg products. *Assoc. Off. Agr. Chem. J.* 31: 734-739. Nov. 15, 1948. 381 As7

14955 LINDSEY, A. H. A look at the future of commodity research in New England: poultry research. *New England. Res. Council Mktg. and Food Supply. Proc.* 1948: 49-53. 252.004 N443M

14956 MCNULTY, G. Turkey market down on the farm. *Wash. Farmer* 73: 831. Nov. 18, 1948. 6 R151

14957 MADSEN, S. Danish poultry-meat. (In Flemish.) *Pluimvee* 2: 267-268. Aug. 1948. 47.8 P72

14958 MANBECK, C. F. The time is now ripe for more broiler dollars. *Amer. Egg & Poultry Rev.* 9(12): 40. Nov. 1948. 47.8 Am38

14959 MARGOLF, P. H. Turkey talks business the year round. *Crown* 37(12): 9-11, 21. Dec. 1948. 389.8 C88

14960 MARYLAND STATE POULTRY COUNCIL. Proceedings, summer meeting, August 6, 1947, and the fourteenth annual winter meeting, January 7, 1948. Baltimore? 1948. 36 p. 47.9 M36P

14961 MASON, G. Turkey merchandising. *Calif. Retail Grocers Advocate* 53(44): 86. Oct. 29, 1948. 286.28 C12

14962 MESCHINI, C. Egg production; questions on poultry production [Italy]. (In Italian.) *Gior. di Agr.* 57: 58. Mar. 9, 1947. 16 It1G

14963 NISSON, E. A. Development of commercial hatcheries. *South. Calif. Rancher* 13(11): 27. Nov. 1948. 6 So831

14964 NUGENT, G. R. H. General farmers blamed for low average egg production. *Poultry [London]* 103: 284. Oct. 12, 1948. 47.8 P869



14965 OLDENBURG, C. F. Poultrymen all speak same language; folks in Idaho and Utah have need for better chicks and poults at fair price; co-op birds well liked in neighboring states. Co-op Chick News 19(10): 3, 13. Oct. 1948. 47.8 C783

14966 PARRISH, C. F. Poultry will pay in 1949. Prog. Farmer, Car.-Va. Ed. 63(12): 99. Dec. 1948. 6 P945

14967 PEARCE, J. A. Dehydrated animal products. 4. Egg powder. Food Canada 8(11): 28-30, 32-33. Ref. Nov. 1948. 389.8 F7323

14968 POIROT, P. L. The outlook for poultrymen. G. L. F. Week. Serv. Sched. 13(22): 4. Nov. 29, 1948. 280.28 G113W

14969 POTRATZ, M. B. Eggs versus dairy, opinions may vary but work by chickens is still customary. Manitoba Co-op. 6(13): 10. Oct. 28, 1948. 280.28 M31 Poultry industry.

14970 POTVIN, J. B. L'élevage coopératif des dindons. Terre de Chez Nous 21(9): 8, 17. Nov. 24, 1948. 7 T27 Canada.

14971 PRINGLE, V. Chicken-of-tomorrow contest thoughts. Amer. Egg & Poultry Rev. 9(12): 30-32. Nov. 1948. 47.8 Am38

14972 RIZZOLI, C. Protein metabolism in the fertilized and unfertilized hen's egg before incubation. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 255-258. Mar. 1948. 442.8 S012

14973 ROBERTS, W. R. Breathing life into the duck industry. Better Farms 8(10, i. e., 8): 6, 16. Sept. 15, 1948. 6 B462

14974 ROBERTUS. Ei, ei, ei. Kleintier-Zücht. Tierbörse 2(45): 2-3. Oct. 10, 1948. 49 K672

14975 RONK, S. E. The egg and us. Northeaster 1948: 10-12. Summer 1948. 284.28 N81 The industry.

14976 SEARLS, E. N. Costs and returns in marketing dressed chickens, 184 poultry farms, New York, 1946-47. N. Y. Agr. Col. A. E. 681, 38 p. Oct. 1948. 281.9 C81

14977 SWIFT & COMPANY. AGRICULTURAL RESEARCH DEPT. A direct road to market for your cream, eggs, and poultry. Swift & Co. Agr. Res. Dept. Informative B. 7, 10 p. 1948? 50.9 Sw52

14978 THOMPSON, L. N. The egg washing problem. Nulad News 26(7): 3-4. Nov. 1948. 47.8 N917

14979 TINDALL, C. Broiler business looks mighty good. Mo. Ruralist 89(21): 4, 30-31. Nov. 13, 1948. 6 R8891

Industry in Missouri.

14980 TRACY, T. N. Advertising and quality create market for canned poultry. News Farmer Coops. 15(9): 3, 21. Dec. 1948. 166.2 N47

14981 URI, D., and BERKMAN, J. Poultry problems at the present hour. (In Hebrew.) Hassadeh 28: 479-481. Aug. 1948. 26 H27

14982 VAITSMAN, J. How to preserve eggs. (In Portuguese.) Rev. Agron. 12: 104. Apr./June 1948. 9.2 R325

Also in Lav. Arroz. 2(18): 34. June 1948. 59.8 L39

14983 VONSBAEK, N. P. The importance of the poultry industry in Denmark. (In Flemish.) Pluimvee 2: 187-188. May 1948. 47.8 P72

14984 WATANABE, Y. Beware! Gravity to the nation's welfare of certain "danger spots" in the poultry industry. Mod. Poultry Keeping 59: 432. Oct. 27, 1948. 47.8 Eg3

Great Britain.

14985 WATSON, A. J. Microbiology of spray-dried, whole-egg powder. V. Aerobic mesophilic sporeforming bacilli isolated at 55°C. J. Bact. 56: 696. Nov. 1948. 448.8 J82

14986 WILLS, R., and others. Frozen storage of poultry. Amer. Egg & Poultry Rev. 9(12): 44, 46-48, 68. Nov. 1948. 47.8 Am38

B. Lowe, H. Slosberg, and G. F. Stewart, joint authors.

14987 WYNNE, J. D. How make your newspaper ads pay. Turkey World 23(11): 16-17, 69-70. Nov. 1948. 47.38 T84

#### RUBBER AND RUBBER SUBSTITUTES

14988 ASCOLI, F. D. L'industrie caoutchoutière: son développement, son importance et ses problèmes. Soc. Belge d'Études & d'Expansion. B. Bimest. 47: 571-575. Aug./Oct. 1948. 280.8 S017

14989 FUHRMANN, A., and RANDALL, R. L. Reclaimed rubber today versus prewar. Rubber Age 64: 201-204. Nov. 1948. 305.8 R82

14990 MAYOR, A. R., and BOISSONNAS, C. G. Variation de la chaleur spécifique du caoutchouc en fonction de l'allongement. Helvet. Chim. Acta 31: 1514-1532. Oct. 15, 1948. 385 H36

14991 PARTRIDGE, E. G., and HANSEN, M. E. Drying of latex rubber deposits. India Rubber World 119: 341-344. Dec. 1948. 305.8 In2

14992 PIOTROVSKII, K. B. Creation of the first synthetic rubber industry in the world in U. S. S. R. (In Russian.) Priroda 37(6): 74-77. June 1948. 410 P933

14993 RÁFOLS, W. DE. Posibilidades del caucho en España. Inform. Com. Españ. Sup. 179: 4-6. July 15, 1948. 286.8 In3

#### SEEDS

14994 ALOI, L. More on seed grain [Italy]. (In Italian.) Gior. di Agr. 57: 74. Mar. 30, 1947. 16 It1G

14995 ALOI, L. Where will grain seed for 1947 be acquired? (In Italian.) Gior. di Agr. 57: 4. Jan. 5, 1947. 16 It1G

14996 ANDRÉN, F. Need and preparations for chemical treatment of seed. (In Swedish.) Lantmannen 32: 180-181. Mar. 13, 1948. 11 L234

14997 BAINER, R. The processing of sugar beet seed. Agr. Engin. 29: 477-479. Nov. 1948. 58.8 Ag83

14998 BECK, J. R. A look at the record of 25 years of farm planning. III. Oreg. Grange B. 48(13): 2. Dec. 5, 1948. 6 Or3

Deals with the small seed industry.

14999 BEESON, K. E. The 1947 soybean seed situation in Indiana. Ill. Agr. Col. Ext. AG1348, p. 12. Dec. 30, 1947. 275.29 IL62Pag

15000 BOWLES, C. E. Made-to-order cotton planting seed for Texas farmers. Prog. Farmer, Tex. Ed. 63(12): 15, 97. Dec. 1948. 6 T311 Texas Planting Seed Association.

15001 EDLER, G. C. Observations on the field and vegetable seed situation in Europe. Washington, U. S. Off. Foreign Agr. Relat., 1948. 4 p. 1.941 A22Ed5 Also in Grain & Feed J. Consolidated 101(10): 22. Nov. 24, 1948. 298.8 G762

15002 FORD, K. Hybrid seed corn merchandising. Seed World 63(10): 8-9. Nov. 21, 1948. 61 Se52

15003 FORTENBERY, B. W. Kentucky certified seed news. Ky. Farmer 84(12): 10. Dec. 1948. 6 F2237

15004 GERSONS, L. Protection of production in the Netherlands: control of herb seeds. (In Italian.) Gior. di Agr. 57: 75. Mar. 30, 1947. 16 It1G

15005 GRABER, L. F. Recommendations on seed practices approved. What's New in Crops & Soils 1: 20-21. Oct. 1948. 6 W55

Recommendations of the Seed Practices Committee of the North Central Region.

15006 HACKLEMAN, J. C. The 1947 soybean seed situation in Illinois. Ill. Agr. Col. Ext. AG1348, p. 11. Dec. 30, 1947. 275.29 IL62Pag

15007 HALLEMANS, A. Disinfect your seed. (In Flemish.) Cult. en Handel 14: 172. Mar. 1948. 80 C892

15008 HILLER. Saatgutverkehr neu geregelt. Neue Mitt. f. die Land. 3: 246-247. Aug. 21, 1948. 18 N39 Germany.

15009 JANSSEN, R. W. Introduction to lectures on seed questions. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 60: 392-393. Sept. 1948. 105.2 Or3

15010 MAHONEY, A. E. Inefficient seed cleaning. Grain & Feed J. Consolidated 101(8): 23-24. Oct. 27, 1948. 298.8 G762

15011 MALI, L. A review of the development of the seed produce of Finland in the light of import and export. (In Finnish.) Suomen Maataloustiet. Seura, Maataloustiet. Aikakausk. 20: 101-108. Ref. 1948. 20 Su7M English summary.

15012 MARSH, H. E. Advances made in seed analysis. Feed Bag 24(11): 87-88. Nov. 1948. 389.78 F32



- 15013 MEER, H. E. VAN DER. Seed production and export. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 422-429. Sept. 1948. 105.2 Or3
- 15014 MIRA, E. (HIJO). La cooperativa del campo y su sección de semillas. *Cooperación* 7(74): 4. Apr. 1948. 280.28 C7875
- 15015 NEDERLANDSCHE ALGEMEENE KEURINGS-DIENST VOOR LANDBOUWZADEN AND AARDAPPEL-POOTGOED. Fifteenth annual report of the Netherlands General Agricultural and Potato Seed Inspection Service, 1946-1947. (In Dutch.) Dec. 17, 1947. 76 p. 12 N284
- 15016 NILSSON-LEISSNER, G. New sealing regulations and higher rates. (In Swedish.) *Lantmannen* 32: 254. Apr. 10, 1948. 11 L234
- Seeds.
- 15017 NILSSON-LEISSNER, G. Seed exhibitions during the spring 1948; increased interest for potato quality. (In Swedish.) *Lantmannen* 32: 276, 280. Apr. 17, 1948. 11 L234
- 15018 NILSSON-LEISSNER, G. Seed supply the season 1948-49. (In Swedish.) *Lantmannen* 32: 710. Oct. 23, 1948. 11 L234
- 15019 NORTH CAROLINA CROP IMPROVEMENT ASSOCIATION, INC. Sources of certified seed of cotton, corn, tobacco, potatoes, sweet potatoes, and soybeans. Raleigh, 1948. 20 p. 61.9 N815
- 15020 OHIO SEED IMPROVEMENT ASSOCIATION. Sources of Ohio certified field crop seeds for 1949 planting. Columbus, 1948. 57 p. 225 Oh32S
- 15021 PARSONS, F. G. California grown alfalfa seed, its use in other states. *Nation's Agr.* 23(11): 20-21. Dec. 1948. 280.82 B89
- 15022 SANBORN, B. G. Results of seeds tests for 1948. N. H. Agr. Expt. Sta. B. 374, 28 p. Aug. 1948. 100 N45
- 15023 SORENSEN, E. L. What's in the seed bag? *Utah Farmer* 68(8): 14. Nov. 25, 1948. 6 D45
- Seed testing.
- 15024 STALL, C. W. New seed house gives protection. *Hoosier Farmer* 33(12): 17, 24-25. Dec. 1948. 280.82 H76
- 15025 STUFF, G. Your guarantee of quality seed. *Ill. Agr.* 53(11): 4, 16. Nov. 1948. 6 IL6
- Certified seed.
- 15026 SVERIGES UTSÄDESFÖRENING. Annual report of the activities of the Swedish Seed Association. (In Swedish.) *Sveriges Utsädesför. Tidskr.* 58: 139-197. 1948. 61.9 Sv23
- 15027 TEXAS. STATE DEPT. OF AGRICULTURE. DIV. OF FIELD SEED CERTIFICATION. Seed directory. Oct. 1948. 28 p. 225 T3152
- 15028 U. S. BUR. OF AGRICULTURAL ECONOMICS. Stocks of vegetable seeds on June 30, 1947, 1948, and 1942-46 average. Washington, 1948. 8 p. 1.941 S8V522
- 15029 VANDERWAEREN, R. Why disinfect vegetable seeds. (In Flemish.) *Tuinbouwberichten* 12: 38. Mar. 15, 1948. 80 T817
- 15030 VANNUCCINI, G. Where will grain seed for 1947 be acquired? (In Italian.) *Glor. di Agr.* 57: 46. Feb. 23, 1947. 16 ItiG
- 15031 WELLS, N. M. Specifications for purchase of grass seed. *Grain & Feed J. Consolidated* 101(8): 23. Oct. 27, 1948. 298.8 G762
- SUGAR AND SIRUPS
- 15032 AGETE, F. Estudio comparativo de la producción de la caña en Puerto Rico, Cuba, Florida y Hawaii. *Zafra* 1(4): 38-39. Apr. 1948. 65.8 Z12
- 15033 AGRICULTURAL WORKERS' FEDERATION (SOUTH AFRICA). They grow your sugar. Durban, 1947. 11 p. 283 Ag82
- Natal sugar industry.
- 15034 AHLFELD, H. The International Sugar Agreement and the world sugar situation. *Sugar* 43(11): 33-34. Nov. 1948. 65.8 F11
- 15035 AMADO BLANCO, L. Amarga azúcar. *Tierra Libre* 12(10): 14. Oct. 1948. 8 T443
- Cuba.
- 15036 BALCH, R. T., BROEG, C. B., and LAURITZEN, J. I. Losses resulting from delayed milling of sugar-cane. *Sugar B.* 27: 36, 45-47. Ref. Nov. 1, 1948. 65.9 Am32
- 15037 BOND, A. D., and COPE, J. A. Maple syrup production profitable. *Farm Res. [N. Y. State Sta.]* 14 (4): 11. Oct. 1948. 100 N48A
- 15038 BRANNAN, C. F. 1948 price determination. *Mtn. States Beet Grower* 11(10): 4. Oct. 1948. 280.28 M86
- 15039 BUHL, Zuckerwarenerzeugung und zuckerwarensatz. *F. O. Licht. Ber.* 87: 134. Oct. 1948. 66.8 L61A
- 15040 BUHL. Die zuckerwarenindustrie nach dem zusammenbruch. *F. O. Licht. Ber.* 87: 73-74. May 1948. 66.8 L61A
- Germany.
- 15041 CAIRO AMADOR, A. Fabricación simultánea de azúcar crudo y alcohol. *Retiro Azucarero* 3(2): 26-27. Mar./Apr. 1947. 65.8 R31
- 15042 CURLEY, H. C. Maple products. *Northeastern* 1948: 21-22. Summer 1948. 284.28 N81
- 15043 DANIEL, L. H. Algunas observaciones sobre clarificación de jugos de caña y pérdidas de sacarosa en los ingenios. *Zafra* 1(4): 42-43. Apr. 1948. 65.8 Z12
- 15044 D'AVICE, R. Report on the Oliver-Campbell mud filter in South Africa. *Internatl. Sugar J.* 50: 295-297. Nov. 1948. 65.8 In8
- 15045 DE WHALLEY, H. C. S., and SCARR, M. P. Micro-organisms in raw and refined sugar and intermediate products. *Bottler & Packer* 22(11): xxii-xxv. Nov. 1948. 390.8 B65
- 15046 DUDICK, G. F. Futuro azucarero: escasez o más sobrantes? [Cuba]. *Rev. Nac. de Cien. Polít.-Econ.-Sociales* 7(83): 15-16. Oct. 1948. 280.8 R3295
- 15047 ELLIOTT, H. G. A sweet harvest. *Family Herald & Weekly Star* 79(44): 3, 15. Nov. 3, 1948. 7 F21
- Sugar beet industry in Canada.
- 15048 FAGOMASINO, J. M. Método de Melle-Boinot: empleo de levaduras en fabricación de alcohol. *Zafra* 1(10): 38-40. Oct. 1948. 65.8 Z12
- 15049 FREDGARDH, F. The Swedes are sugar eating people; from the beet campaign in Scania. (In Swedish.) *Lantmannen* 32: 731. Oct. 30, 1948. 11 L234
- 15050 GENTIL. Le monde produira-t-il bientôt trop de sucre? *Apiculteur* 92: 122-123. June 1948. 424.8 Ap3
- Includes honey marketing.
- 15051 HABIF, N. El pH o acidez de los licores acuosos. *Zafra* 1(4): 17-22; (5): 21-26. Apr.-May 1948. 65.8 Z12
- 15052 HENGLEIN, F. A., and VOLLMERT, B. Über den essigsäuregehalt des pektins der zuckerrübe. *Makromolekulare Chem.* 2: 77-87. May 1948. 384 M28
- 15053 HOUMANN, L. Considerables perspectivas de la industrialización del azúcar de remolacha en la economía nacional [Chile]. *Campesino [Santiago]* 80(9): 13, 15, 17-19. Sept. 1948. 9.3 So12
- 15054 KELLER, A. G. The Hawaiian sugar industry. *Sugar J.* 11(6): 11, 20-23. (Cont.) Nov. 1948. 65.8 Su391
- 15055 LAMEGO, A. Where did sugarcane culture begin in Brazil? Where was the first sugar-mill? (In Portuguese.) *Brasil Açucareiro* 32: 165-168. July/Aug. 1948. 65.8 B73
- 15056 LE RIVERAND, J. La industria azucarera de Cuba durante el siglo XIX. *Retiro Azucarero* 3(3): 20-21, 31; (4): 18-20, 26. May/June-July/Aug. 1947. 65.8 R31
- 15057 LOWE, T. Cane washing at Greenwood factory. *Sugar J.* 11(7): 9-11. Dec. 1948. 65.8 Su391
- 15058 MISCHLING. Zuckerrübenerte und abfallverwertung. *Oberösterreich. Landwirtschaftszeitung* 20(42): 1. Oct. 13, 1948. 19 Ob23
- 15059 MONTEIRO, E. DE G. Permanent balance in national sugar production. (In Portuguese.) *Brasil Açucareiro* 32: 133-134. July/Aug. 1948. 65.8 B73
- 15060 OLSHAMMAR, C. A. 100 per cent increase. The sugar beet campaign in Västergötland is closed. (In Swedish.) *Lantmannen* 32: 779. Nov. 20, 1948. 11 L234
- 15061 PANG, S. K. Can China be self-sufficient in sugar? *China Trade Monthly* 2: 279-280. Mar. 1948. 286.8 C44
- 15062 PEDROSA PUERTAS, R. El agotamiento en la miel final. *Zafra* 1(4): 24-31. Apr. 1948. 65.8 Z12
- 15063 PEREZ LOPEZ, J. The sugar industry in Spain. *Sugar* 43(11): 38-39. Nov. 1948. 65.8 F11



- 15064 PRASAD, M. Decentralization in cooperative cane unions, United Provinces. *Indian Farming* 9: 191-193. May 1948. 22 In283
- 15065 QUEBEC. BUREAU DES STATISTIQUES. *Produits de l'érable*, 1948. Québec, 1948. 4 p. 253.8 St2M Text in French and English.
- 15066 QUEENSLAND CANE GROWERS' ASSOCIATION. Twenty-first annual conference; edited verbatim report of proceedings... March, 1948. Toowoomba, 1948. 123 p. 281.3659 Q3
- 15067 RAMOS GRAU, R. News of the Cuban sugar industry. *Sugar* 43(11): 29-30. Nov. 1948. 65.8 F11
- 15068 RENAUX, J. Une grande enquête sur la campagne betteravière: le rendement atteint les meilleures moyennes d'avant 1939. *Monit. Agr.* 1(43): 9. Nov. 7, 1948. 14 M744  
Sugar beets in France.
- 15069 RODRIGUEZ, V. J. Materiales plásticos del bagazo de caña de azúcar. *Retiro Azucarero* 3(3): 22-23, 30. May/June 1947. 65.8 R31
- 15070 ROGGE, K. Einschränkung des zuckerrübenanbaues? *F. O. Licht. Ber.* 87: 101-102. Aug. 1948. 66.8 L61A
- 15071 SERNA SILVA, F. Diccionario técnico azucarero—inglés-español. *Zafra* 1(5): 29-37; (7): 42-43; (8): 42-44; (9): 41-44. (Cont.) May, July-Sept. 1948. 65.8 Z12
- 15072 SILIN, P. M. Tekhnologiya sveklosakharnogo proizvodstva [Technology of beet sugar manufacture]. Moskva, 1948. v. 2. 46 Si32
- 15073 SINGH, D. Sugar and sugarcane production in India. *Indian Farming* 9: 199-202. May 1948. 22 In283
- 15074 SOSA, L. A. El uso de la bentonita en la clarificación de jugos de las cañas P. O. J. *Zafra* 1(7): 12-15. July 1948. 65.8 Z12
- 15075 TEIXEIRA, J. DE L. Cooperation in sugarcane production. (In Portuguese.) *Coop [Bahia]* 7(56): 7. July 1948. 280.28 C7842
- 15076 U. S. BUR. OF AGRICULTURAL ECONOMICS. The world sugar situation. Washington, 1948. 57 p. 1.9 Ec752Ws
- 15077 VÁRZEA, A. Resende, the western capital of Rio de Janeiro's sugarcane area. (In Portuguese.) *Brasil Açucareiro* 32: 172-174. July/Aug. 1948. 65.8 B73
- 15078 VÁZQUEZ, E. A. Celulosa y furfural de la fibra de la caña de azúcar. *Zafra* 1(8): 30-36. Aug. 1948. 65.8 Z12
- 15079 VÁZQUEZ, E. A. Celulosa y levadura del bagazo de la caña de azúcar. *Zafra* 1(8): 15-17; (9): 21-25; (10): 21-24. Aug.-Oct. 1948. 65.8 Z12
- 15080 VECCHI, G. DE. Will we have more sugar in 1947? In witness of the new beet contract. (In Italian.) *Gior. di Agr.* 57: 67. Mar. 23, 1947. 16 It1G Italy.
- 15081 VOGEL, F. La situación azucarera europea. *Cuba Econ. y Financ.* 23(271): 31. Oct. 1948. 286.8 C892
- 15082 WEBER, A. L. Observaciones sobre la posibilidad de mejorar la clarificación. *Zafra* 1(5): 9-12. May 1948. 65.8 Z12
- 15083 ZANUSO, E., and SPETTOLI, O. CaCO<sub>3</sub>, CaO and CO<sub>2</sub> in sugar manufacture. (In Italian.) *Indus. Sac. Ital.* 41: 159-165. Ref. July/Aug. 1948. 65.8 In23
- 15084 ZERBAN, F. W., and ERB, C. Determinación de la dextrosa y la levulosa en los productos de caña que contienen substancias reductoras no fermentescibles. *Zafra* 1(8): 10-14. Aug. 1948. 65.8 Z12
- 15085 ZERBAN, F. W. El problema del color en la fabricación de la sucrosa. *Zafra* 1(10): 15-20. (Cont.) Oct. 1948. 65.8 Z12
- TOBACCO
- 15086 ALLARD, H. A., and ALLARD, H. F. Tobacco in the Dominican Republic. U. S. Off. Foreign Agr. Re-lat. Foreign Agr. Rpt. 30, 27 p. Sept. 1948. 1.943 F763
- 15087 BARBOZA, C. Preparation of tobacco for cigars. (In Portuguese.) *Chacaras e Quintais* 78: 345-346. Sept. 15, 1948. 9.2 C34
- 15088 BORDELEAU, R. Tobacco research at the Dominion Experimental Station at l'Assomption, Quebec. *Lighter* 18(4): 1. Nov. 1948. 286.89 C16
- 15089 BRIGHT leaf tobacco; a statistical report showing the production and sale of Bright leaf tobacco by States and markets for the years 1933-1947 inclusive. Lumberton, N. C., Whitehead & Anderson, 1948. 38 p. 286.3699 B76
- 15090 CATTÀ, R. S. La mise en train du monopole des tabacs créé par Napoléon. Morlaix. *Rev. des Tabacs* 23(183): 27-29. Autumn 1948. 69.8 R325
- 15091 CHANDLER, A. L. Tobacco baling in full swing. *Family Herald & Weekly Star* 79(47): 10, 13. Nov. 24, 1948. 7 F21
- 15092 CORBETT, G. The yellow leaf tobacco industry [in Cyprus]. *Countryman [Nicosia]* 2: 2. Jan. 1948. 22.5 C83
- 15093 HUNT, R. 1948 tobacco review. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 63(12): 14, 92. Dec. 1948. 6 P945K
- 15094 HUNT, R. A., and CLARK, C. M. Three quarters of a century in retrospect; Kentucky Agricultural Experiment Station's contribution to the tobacco industry. *West. Tobacco J.* 75(48): 35-36. Nov. 30, 1948. 286.89 W52
- 15095 HUTSON, J. B. Developments in tobacco. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 96-97. 1948. 4 C82
- 15096 JAMES, H. B. What's ahead for tobacco? (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 130-131. 1948. 4 C82
- 15097 LEFLER, H. T. Tobacco sparked North State's [North Carolina] progress; evolved golden era in Tar Heel history. *West. Tobacco J.* 75(48): 99, 102-105, 107. Nov. 30, 1948. 286.89 W52
- 15098 LOVE, H. W. A crop of gold. *Farmers Fed. News* 29(4): 11, 19. Dec. 1948. 280.28 F225  
Tobacco prices.
- 15099 PONTING, C. Making a "cake" of homegrown tobacco. *Pop. Gard.* 50: 280. Sept. 25, 1948. 80 G1622
- 15100 SEXAUER, H. T. Tobacco production, Connecticut Valley. *Northeastern* 1948: 16-17. Summer 1948. 284.28 N81
- 15101 VAN ROOYEN, C. F. The nicotine content of tobacco. *Farming So. Africa* 23: 547-552. Aug. 1948. 24 So842
- 15102 VEN, L. F. J. M. VAN DER. The development of tobacco culture in the Netherlands. (In Dutch.) *Tabaksplant* 75(3735, 2d leaf): 4. Oct. 19, 1948. 286.89 T114
- 15103 VEN, L. F. J. M. VAN DER. The importance of tobacco culture for small farms. (In Dutch.) *Tabaksplant* 75(3736, 2d leaf): 2. Nov. 2, 1948. 286.89 T114
- 15104 WALKER, C. R. South's tobacco manufacture shows steady growth. *Mfrs. Rec.* 117(12): 40, 63. Dec. 1948. 297.8 M31
- 15105 WARD, G. M. Nicotine. *Lighter* 18(4): 10-12. Nov. 1948. 286.89 C16
- MISCELLANEOUS PRODUCTS
- 15106 BEYAERT, M., and CORNAND, P. L'extraction des acides  $\alpha$  et  $\beta$  du houblon ou de la lupuline. *Cong. Internat. des Indus. de Fermentation* (1947)1: 236-278. Ref. 390.09 C76  
Summary in English and Dutch.
- 15107 BIERMAN, H. H. Deep freeze in Florida. *Diesel Prog.* 14(12): 34-35. Dec. 1948. 291.8 D56  
Diesel equipment for freezing fish.
- 15108 DIRSCHERL, W., and NAHM, H. Über die identität des cinchols mit  $\beta$ -sitosterin und die konstitution des  $\gamma$ -sitosterins aus chinarinde. *Justus Liebigs Ann. der Chem.* 558: 231-234. 1947. 384 An7
- 15109 FALCK, E. VON. Ernte, haltbarmachung und verwendung von küchenkräutern. *Neue Mitt. f. die Landw.* 3: 252. Aug. 21, 1948. 18 N39
- 15110 FOWLER, R. G., JR. Oregon rolls out the mint barrels. *Oreg. Farmer* 71: 831, 864. Nov. 18, 1948. 6 Or32  
Th industry in Oregon.
- 15111 GOVAERT, F., and VERZELE, M. Détermination quantitative des acides  $\alpha$  et  $\beta$  dans le houblon. *Cong. Internat. des Indus. de Fermentation* (1947)1: 279-296. 390.09 C76  
Summary in English and Dutch.
- 15112 GRUBER, R. J. How you can land that frozen fish business. *Locker Managt.* 2(12): 24-25, 50. Dec. 1948. 389.8 L79



15113 HAGEN, C. Marketing agreement now brewing for hops. *Idaho Farmer* 66: 864. Dec. 2, 1948. 6 G282

15114 HARVEY, E. W. Preservation of seafoods. *Oreg. Agr. Expt. Sta. C. 164*, rev., 16 p. Mar. 1948. 100 Or3

15115 HILBERT, F. L. The technology of tanning: Borneo mangrove cutch. *Leather & Shoes* 116(15): 26-31, 33; (20): 26, 28-30. Oct. 9, Nov. 13, 1948. 303.8 H53

15116 HOPKINSON, L. T. Consumer acceptance of [frozen] fish depends on quality. *Quick Frozen Foods* 11(4): 52-53. Nov. 1948. 389.8 Q4

15117 LEMON, J. M. Steps in the handling of frozen fish in the freezer warehouse. *Refrig. J.* 1: 382, 384, 386, 388. Feb. 1948. 295.8 R255

15118 PEASE, R. West Virginia's holly program. *Natl. Co. Agent* 4(11): 16, 21, 35. Nov. 1948. 275.28 N23

15119 POTTER, R. E. Carp and cans - today's packaging in action. *Packaging Systems* 4(9, i. e. 10): 8-9. Nov. 1948. 309.8 P126

15120 RABAK, F. Production of hops in the United States with special reference to researches on the improvement of quality and utilization of their brewing constituents. *Cong. Internatl. des Indus. de Fermentation* (1947): 219-235. Ref. 390.09 C76  
Summary in French and Dutch.

15121 SHEWAN, J. M. Recent experiments in the salt curing of herrings. *Food Manufacture* 23: 465-469. Oct. 1, 1948. 389.8 F736

15122 TARR, H. L. A. Control of rancidity in fish flesh. II. Physical and chemical methods. *Canada. Fisheries Res. Bd. J.* 7: 237-247. Aug. 1948. 442.9 C16J

15123 ZIEMBA, J. V. Speed and quality engineered into fish-freezing operation. *Food Indus.* 20: 1579-1583. Nov. 1948. 389.8 F737

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

##### GENERAL

15124 ANDRUS, J. R. Burmese economic life. Stanford, Calif., Stanford U. Press, 1947. 362 p. 280.182 An2

15125 BAQUÉ, Z. Deux siècles d'histoire économique. *Terre d'Oc* 30: 362-367. (To be cont.) Sept. 1948. 14 Ar5

15126 CALZECCHI-ONESTI, A. The battle for agricultural prosperity will be won in the factories of Italy. (In Italian.) *Gior. di Agr.* 58: 315-316. Nov. 14, 1948. 16 It1G

15127 CHEW, A. P. Plowshares into swords; agriculture in the World War age. New York, Harper, 1948. 227 p. 281 C42

Agricultural-industrial balance as a preventive of war.

15128 CHINESE NEWS SERVICE. Rural reconstruction. *China Inform. B.* 1(17), 4 p. Sept. 15, 1948. 280.8 C446

15129 ELLIOTT, F. F. The research program of the Bureau of Agricultural Economics. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 45-47. 1948. 4 C82

15130 FILENI, E. Problems of reconstruction [Italy]: force of spirit. (In Italian.) *Gior. di Agr.* 57: 37. Feb. 16, 1947. 16 It1G

15131 FIRESTONE, H., JR. Agriculture and industry. (Excerpts.) *Farm Equip. Retailing* 6(5): 22. Nov. 1948. 58.8 F2292

15132 FREGOLA, C. The agricultural services and tasks of economic organizations [Italy]. (In Italian.) *Gior. di Agr.* 58: 316. Nov. 14, 1948. 16 It1G

15133 GADGIL, D. R. Economic effects of irrigation; report of a survey of the direct and indirect benefits of the Godavari and Pravara canals. *Gokhale Inst. Politics and Econ. P.* 17, 183 p. 1948. 280.9 G56

15134 GALLINI, T. Payment for war damages. (In Italian.) *Terra [Firenze]* 59(39): 2. Sept. 26, 1948. 16 T274

15135 GUBIN, E. K. How to do business under the Marshall Plan. Ed. 2. n. p., 1948. 141 p. 280.17 G93

15136 HALLIWELL, A. N. The tide of prosperity, how long can it last? *Tasmanian Fruitgrower & Farmer* 24(302, i. e., 303): 17. Sept. 1948. 23 T185  
Agricultural prosperity.

15137 THE INSTITUTES and research centres of agrarian economy. In *Italy. Istituto Nazionale di Economia Agraria. The situation of agricultural economics in Italy*, p. 36-42. Roma, 1948. 281.176 It12

15138 JUNGFLEISCH, M. Études agronomiques et économiques: le Nil, vivres, cotton. *Égypte Agr.* 46: 78-79. July/Aug. 1948. 24 Un32

15139 LEFEBVRE, G. L'Angola; son histoire, son économie. Liège, Thone, 1947. 256 p. 280.19 L52

15140 MALENBAUM, W. Contribution of economic research to international problems. *New England. Res. Council Mktg. and Food Supply. Proc.* 1948: 8-14. 252.004 N443M

Discussion, p. 15-17.

15141 MARIS, A. Agricultural economic regional research. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 439-448. Sept. 1948. 105.2 Or3

15142 MEDICI, G. The situation of agricultural economics in Italy. In *Italy. Istituto Nazionale di Economia Agraria. The situation of agricultural economics in Italy*, p. 5-15. Roma, 1948. 281.176 It12

15143 MOYA, M. A. DE. Evolución económica de la República Dominicana. *Hacienda* 43(12): 36-37, 84. Dec. 1948. 6 H11

15144 ROSA, J. S. Os interesses recíprocos da agricultura e da indústria. *Rev. de Quím. Indus.* 17 (196): 15. Aug. 1948. 385 R324

15145 SERPIERI, A. The programme of the "Rivista di Economia Agraria." In *Italy. Istituto Nazionale di Economia Agraria. The situation of agricultural economics in Italy*, p. 16-26. Roma, 1948. 281.176 It12

15146 STEANSON, O. The farm economist's contribution to improvement in farm living. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 119-121. 1948. 4 C82

15147 STEPP, J. M. Industrial development and low-income farm people in the South. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 58-60. 1948. 4 C82

15148 STURZO, L. State intervention in the [Italian] economy stifles all enterprise. (In Italian.) *Com. Vinic.* 20(43): 1. Nov. 6, 1948. 390.8 C732

15149 U. S. DEPT. OF STATE. Fourth report to Congress on assistance to Greece and Turkey for the period ended June 30, 1948. U. S. Dept. State. Econ. Coop. Ser. 12, 71 p. Washington, 1948. 150 Ec7

15150 WAUGH, F. V. New kinds of studies in agricultural economics. *New England. Res. Council Mktg. and Food Supply. Proc.* 1948: 37-42. 252.004 N443M

##### AGRICULTURAL FINANCE

15151 BERTHAULT, P. Le redressement de notre agriculture et le franc agricole. *Rev. Agr. de l'Afrique du Nord* 45: 502-504. Oct. 24, 1947. 80 R326

15152 FULMER, J. L. Elements of risk in agricultural production and their importance in the development of a sound policy for agriculture. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 47-49. 1948. 4 C82

15153 LARSEN, H. C., and JOHNSON, N. W. Managing farm finances. U. S. D. A. Misc. P. 652, 69 p. Sept. 1948. 1 Ag84M

15154 MAIER-BODE, F. W. Bauer und währungsreform [Switzerland]. *Landw. Z. der Nord-Rheinprov.* 115: 42. Mar. 20, 1948. 18 L2344

15155 MARANCA, G. Land and capital. (In Italian.) *Gior. di Agr.* 57: 25. Feb. 2, 1947. 16 It1G

15156 PARTAIN, L. Agricultural assets total \$111-billion; biggest industry. *Rur. Mktg.* 3(7): 1-2. July 1948. 280.328 R88

15157 PARTAIN, L. Farmers enjoy strongest position in all history. *Rur. Mktg.* 3(8): 2. Apr. 1948. 280.328 R88

15158 REISWITZ, W. FREIHERR VON. Geldreform und wirtschaftsplanung. *Neue Mitt. f. die Landw.* 3: 406. Nov. 15, 1948. 18 N39  
Germany.

15159 RIEDERER, J. Steuerstraffverfahren und währungsreform. *Allgäuer Bauernbl.* 16: 252-253. Oct. 15, 1948. 18 AL53



15160 SCHLOGL, A. Der erste schritt. Landw. Wchnbl. 138: 285-286. Oct. 2, 1948. 18 L2338  
Currency reform in Germany.

15161 SELBY, H. W. Know your 1948 farmer. U. S. Investor 59: 2231-2232, 2251-2252. Nov. 6, 1948. 284.8 Un32  
Economic status.

15162 STEWART, A., and HANSON, E. J. Some aspects of rural municipal finance. Canad. J. Econ. & Polit. Sci. 14: 481-490. Nov. 1948. 280.8 C162

#### Credit

15163 BANCO DE LA NACIÓN ARGENTINA. Memoria y balance general del 56º ejercicio, correspondiente al año 1947. Buenos Aires, 1948. 205 p. 284.9 B226As

15164 BANCO HIPOTECARIO NACIONAL. Memoria anual, 62º ejercicio 1947. Buenos Aires, 1948. 79 p. 284.9 B2274

15165 BARCELÓ, J. L. Asistencia técnica y financiera a la agricultura lusitana. Ceres [Valladolid] 13 (147): 10-11. Sept. 1, 1948. 15 C33

15166 BLOIS, J. DE. Agriculture et credit [France]. Libération Paysanne 5(187): 8. Oct. 28, 1948. 14 L61

15167 BURKETT, W. K. Some problems in deflating farmers' debt paying performances. J. Farm Econ. 30: 750-755. Nov. 1948. 280.8 J822

15168 DAVIS, C. C. Challenges of mechanization to farm credit. Acco Press 26(11): 24-26, 28. Nov. 1948. 6 Ac2

15169 DAVIS, C. C. The country bank and agriculture. n. p., 1947. 19 p. 1.94 Ad4Da

15170 FARRINGTON, R. L. Co-op principles also sound in credit field. News Farmer Coops. 15(9): 4, 17-18. Dec. 1948. 166.2 N47

15171 FEDERAL LAND BANK OF WICHITA. President's report, 1947/48. Wichita, 1948. 32 p. 248.29 F319

15172 GAULT, A. Les prêts sur le Fonds Forestier National [France]. Unité Paysanne 3(149): 3. Sept. 11, 1948. 14 Un3

15173 HEIZER, J. M. Farm improvement loans. Hoosier Farmer 33(11): 13, 32. Nov. 1948. 280.82 H76

15174 ITALY. ISPETTORATO AGRARIO COMPARTIMENTALE PER LE VENEZIE. Norme riguardanti i miglioramenti fondiari col concorso dello stato in conto capitale od in conto interessi [Rules for land improvement with State aid in capital or interest accounts]. Venezia, Consulta Regionale Veneta per l'Agricoltura e le Foreste, 1947. 51 p. (Circolare Ispettoriale 14 del 10 aprile 1947). 284.2 It12

15175 LUZ FILHO, F. Agricultural credit. (In Portuguese.) Ceará, Brazil. Dept. Estad. de Coop. Cooperação 12(69): 3-5. Apr. 1948. 280.28 C781  
Also in Coop [Bahia] 7(54): 10. May 1948. 280.28 C7842

15176 LUZ FILHO, F. Other cooperative themes. (In Portuguese.) Coop [Bahia] 7(55): 3-4, 19. June 1948. 280.28 C7842

Includes agricultural credit in Brazil.

15177 MOGAVERO, N. Conventional agrarian privilege and the agricultural development of southern Italy. (In Italian.) Genio Rur. 11: 231-234. Aug. 1948. 281.8 R552

Mortgage credit.

15178 OSUUSKASSOJEN KESKUS OY (THE CENTRAL BANK FOR CO-OPERATIVE AGRICULTURAL CREDIT SOCIETIES). Annual report, 1947. Helsinki, 1948. 8 p. 284.29 Os8

15179 PINTO, J. C. P. Agricultural credit and the Institute of Sugar and Alcohol. (In Portuguese.) Brasil Açucareiro 32: 135-136. July/Aug. 1948. 65.8 B73

15180 QUEBEC. OFFICE DU CRÉDIT AGRICOLE. Rapport pour l'année se terminant le 31 décembre 1947. Québec, 1948. 11 p. 284.29 Q32

15181 SEVERSON, H. The country financial doctor. Banking 41(5): 56-57. Nov. 1948. 284.8 Am3

15182 TAMAGNINI, G. Questions in the direction of rural banks. (In Italian.) Italia Coop. 3(35): 2. Aug. 26, 1948. 280.28 It1

15183 TINGUY, L. DE. Les crédits hors-budget pour l'agriculture. (Excerpts.) France. Min. de l'Agr. Rev. Inform. Jurid. et Sociale 1948(6): 107-110. June 1948. 281.8 F84

15184 U. S. FARM CREDIT ADMIN. Semiannual report on loans and discounts. Washington, 1948. 10 p. 166.2 J76

15185 VIDAL FERNÁNDEZ, B. El crédito para el campo. Ceres [Valladolid], Sup. Inform. 12(406): 6-7. Sept. 15, 1948. 15 C33

15186 WU, L. H. The concepts of land mortgage bond. (In Chinese.) Monthly Farmers' Bank China 9(1): 24-27. Jan. 1948. 281.9 F225M

#### Income

15187 BONDURANT, J. H., and BISHOP, C. E. Farm wage workers in central Kentucky; a study of employment and income and related factors. Ky. Agr. Expt. Sta. B. 522, 30 p. July 1948. 100 K41

15188 GROVE, E. W. 1949 income outlook; net income to be down again. Agr. Situation 32(11): 6. Nov. 1948. 1 Ec7Ag

15189 JOHNSON, D. G. Allocation of agricultural income. J. Farm Econ. 30: 724-749. Nov. 1948. 280.8 J822

15190 KENDALL, J. R., and FALCONER, J. I. Estimated gross cash income to Ohio farmers from the sale of agricultural products and from Government payments, by counties - 1947. Ohio. U. Dept. Rural Econ. Mimeog. B. 206, 14 p. Oct. 1948. 281.9 Oh32

15191 OXER, V. T. One quarter of Highlands farm income estimated to be derived from livestock; [Highlands] County second in State in beef cattle. Fla. Cattleman 13(2): 22. Nov. 1948. 43.8 F66

15192 PARTAIN, L. Farmer's spendable income higher than figures show. Rur. Mktg. 3(11): 2. Nov. 1948. 280.328 R88

#### Inflation

15193 LOFT, J. The price crisis. Survey Graphic 37: 456-460. Nov. 1948. 280.8 C37G  
Inflation.

15194 SCARSETH, G. D. Bumper crops our salvation. Ohio Farm Bur. News 28(5): 24-25. Dec. 1948. 6 Oh34  
To halt inflation.

#### Insurance

15195 CHILANTI, P. Unified contributions. (In Italian.) Gior. di Agr. 58: 307. Nov. 7, 1948. 16 It1G  
Social security in Italy.

15196 HELLENS, O. VON. Insurance merely against castration risk. (In Swedish.) Finsk Vet. Tidskr. 54: 324-328. Sept. 1948. 41.8 F49

15197 LA SELLE, DE. Assurances "incendie." Coop. Céréales 10: 14-15. June/July 1948. 280.28 C7864

15198 NEUMAYR, L. Die bedeutung des ländlichen versicherungswesens. Landwirtschaft 1948: 219-220. Aug. 21, 1948. 19 L235  
Austria.

15199 SILVEY, J. M. If properly insured, you can stay out of court; M.F.A. Mutual Insurance Co. now offers farm liability policy. Mo. Farmer 40(11): 3, 6, 10. Nov. 1948. 6 M696

15200 SMITH, D. C. The business farmer is your number one prospect. Northwest Banker 53(736): 51-54. Nov. 1948. 284.8 N81

Insurance.

15201 SOLDI, F. Hail and other damages. (In Italian.) Coop. e Agr. 30(40): 1. Oct. 16, 1948. 16 C78  
Insurance.

15202 U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 loss adjustment manual for dry edible beans (dollar coverage insurance). Washington? 1948. 31 p. 1.952 L897

15203 WEKRE, E. Collective insurance of milk producers. (In Norwegian.) Meieriposten 37: 683-691. Oct. 23, 1948. 44.8 M47  
Old age pension.

#### Taxation

15204 BRANCOLINI, L. The direct tax and the wine industry; it is necessary to reduce the coefficients of returns on mobile wealth. (In Italian.) Com. Vinic. 20(34): 1-2. Sept. 4, 1948. 390.8 C732

15205 BRÉART, G. La seule taxation de la viande n'équilibrera pas le marché [France]. J. de la France Agr. 4: 949. Oct. 22/28, 1948. 14 J829



- 15206 CHILANTI, P. The family tax [Italy]. *Terra e Sole* 71/72: 708. Oct. 1948. 16 T273
- 15207 CLELAND, S. B. Wages paid children for farm work are deductible. *Midland Coop.* 16(15): 4. Dec. 15, 1948. 280.28 M58
- 15208 ELWOOD, E. M. Income tax time again. *Mich. Farmer* 210: 369, 387. Dec. 4, 1948. 6 M58
- 15209 FAROLFI, G. Modification of taxes for war damages on farms. (In Italian.) *Bologna Agr.* 1(34): 2. Sept. 11, 1948. 16 B634
- 15210 FOLEY, W. T. How to cut down your 1948 income tax. *Farmer [St. Paul]*, Gen. Ed. 66(23): 8, 32. Dec. 4, 1948. 6 F2211
- 15211 GABBARD, L. P., and CHERRY, R. G. Trend of taxes on farm and ranch real estate in Texas, 1890-1946. *Tex. Agr. Expt. Sta. B.* 702, 34 p. July 1948. 100 T318
- 15212 HALL, I. F. Farmers' 1948 income tax. *Hoard's Dairyman* 93: 858, 892. Nov. 25, Dec. 10, 1948. 44.8 H65
- 15213 HART, S. H., and EMBREE, W. D., JR. Taxation of proceeds from livestock sold as the result of drouth. *Calif. Wool Grower* 24(39): 3, 5. Sept. 28, 1948. 45.8 C12
- 15214 HART, V. B., and KENDRICK, M. S. 1948 income-tax returns; suggestions for farmers. *N. Y. Agr. Col. Cornell Ext. B.* 756, 31 p. Nov. 1948. 275.29 N48E
- 15215 HOCKENSMITH, R. D. The use of land capability maps for rural real estate assessments. *Washington, U. S. Soil Conserv. Serv.*, 1948. 5 p. 1.96 Ad6Ho
- 15216 MATHIAS, P. E. What are motives behind attacks on farm cooperatives? *Ill. Agr. Assoc. Rec.* 26 (11): 24-25, 30. Nov. 1948. 6 IL62
- Charges of unfair tax advantages.
- 15217 MAVIEL, E. Les taxes sur le chiffre d'affaires dans l'élevage du porc. *Porc* 19(6): 53. Aug./Sept. 1948. 46.8 P822
- 15218 MONTVALON, H. DE. Les coopératives devant l'impôt direct. *Fiches Rur.* 39, Etudes, 4 p. Sept. 1948. 281.8 F44
- 15219 NATIONAL ASSOCIATION OF COOPERATIVES. True tax position of cooperatives under the Federal income tax law and Federal Constitution. *Chicago*, 1948? 43 p. 284.5 N2195T
- Statement of Eugene L. Hensel, counsel, before the Ways and Means Committee of the House of Representatives, Eightieth Congress.
- 15220 NEILL, R. A. Huge Federal land area is tax exempt. *Mont. Wool Grower* 22(12): 14-15. Dec. 1948. 45.8 M762
- 15221 NICHOLAS, R. Your income tax is lower this year. *Colo. Rancher & Farmer* 2(23): 5, 24. Dec. 11, 1948. 6 C714
- 15222 ORR, J. Rating of site values—the historical background. *Land & Liberty* 55: 178-179. Sept./Oct. 1948. 282.8 L222
- 15223 QUEENSLAND. COMMISSIONER OF LAND TAX. Thirty-third annual report... on the operation of the acts during the year 1947-48. *Brisbane*, 1948. 10 p. 271.3 T19
- 15224 ROBINSON, T. M. Flood loss is deductible; deductions for farm income tax reviewed. *Mont. Farmer-Stockman* 36(7): 8. Dec. 1, 1948. 6 M764
- 15225 SARDING, M. Denoncez le forfait pour vos bénéfices agricoles. *Paysan du Sud-Ouest* 3(117): 1, 4; (118): 1, 4. Mar. 15, 22, 1947. 14 P292
- 15226 STRUNZ, H. Neue steuerbestimmungen; steuermässigung für gebirgsbauern. *Kärntner Bauer* 98: 305-306. Sept. 15, 1948. 19 K14
- 15227 STRUNZ, H. Neuregelung der gemeinde-steuern und umlagenerhöhung in Niederösterreich. *Österr. Bauernbündler* 4(40): 2. (To be cont.) Oct. 9, 1948. 19 Os7
- 15228 STRUNZ, H. Steuerermässigung für gebirgsbauern. *Salzburg. Bauer* 3(30): 2. July 22, 1948. 19 Sa3
- 15229 STRUNZ, H. Die vermögensabgabe der bauern. *Oberösterr. Landwirtschaftztg.* 20(46): 1. Nov. 10, 1948. 19 Ob23
- 15230 STRUNZ, H. Die vermögenszuwachsabgabe in der landwirtschaft. *Oberösterr. Landwirtschaftztg.* 20(45): 1. Nov. 3, 1948. 19 Ob23
- 15231 TAYLOR, T. R. Selling or buying a ranch? Some tax angles. *West Live Stock* 34(2): 81, 104-105. Sept. 1948. 49 W523
- 15232 TIMM, T. R. Your income tax for 1948. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 63(12): 24, 25. Dec. 1948. 6 P945G
- 15233 TRÖNNBERG, E. When, where and how. Advice to our farmers on income tax declaration. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland* 18(4): 1, 4. Jan. 24, 1948. 11 J762

## AGRICULTURAL LABOR AND WAGES

- 15234 AGARWAL, G. D. Agricultural wages and systems of payment in the United Provinces. *Indian J. Agr. Econ.* 3(1): 24-29. Apr. 1948. 281.8 In2
- 15235 BHATTACHARJEE, J. P. Agricultural labour and wages in Birbhum. *Indian J. Agr. Econ.* 3(1): 32-39. Apr. 1948. 281.8 In2
- 15236 BUOSI, E. The milkers' strike. (In Italian.) *Bologna Agr.* 1(34): 1. Sept. 11, 1948. 16 B634
- 15237 CALIFORNIA. DEPT. OF INDUSTRIAL RELATIONS. DIV. OF LABOR STATISTICS AND RESEARCH. Labor in California, 1945-1946. *Calif. Div. Labor Statis. and Res. Rpt.* 6, 96 p. San Francisco, 1947. 283.9 C124L
- Includes agricultural labor.
- 15238 CHANDRA, S. Agricultural wages: rates of wages and methods of payment in western districts of United Provinces. *Indian J. Agr. Econ.* 3(1): 45-54. Apr. 1948. 281.8 In2
- 15239 DENMARK. STATISTISKE DEPARTEMENT. Chømage en 1947. (In Danish.) *Denmark. Statis. Dept. Statis. Meddel. Ser.* 3, v. 133, No. 1, 65 p. København, 1948. 257.1 St2M
- Table of contents also in French.
- Includes farm labor.
- 15240 DESAI, M. N. Agricultural wages and systems of payment (with reference to Karnatak). *Indian J. Agr. Econ.* 3(1): 54-59. Apr. 1948. 281.8 In2
- 15241 ELIZAROVA, O., and ELIZAROV, V. The field working brigades of the collective farms in Rostov Region. (In Russian.) *Sofsk. Sel'sk. Khoz.* 19(5): 31-39. May 1948. 281.8 So73
- 15242 FJÄDERHANE, A. M., and TINGDAL, C. J. Rationalization of the fruit harvest. (In Swedish.) *Sveriges Pomol. Förs. Årsskr.* 1947: 116-130. 86 Sv2
- 15243 GOOCH, E. G. "A perfectly patriotic claim." *Farmer & Stock-Breeder* 62: 2541. Nov. 2, 1948. 10 F228
- Higher wages for farm workers in England.
- 15244 GORELOV, V. About a single standard in tractor work. (In Russian.) *Sofsk. Sel'sk. Khoz.* 19(5): 40-47. May 1948. 281.8 So73
- Estimation of productive capacity.
- 15245 HOLM, G. Occupational disease hazards of dairy workers. II. (In Swedish.) *Ladugården* 1948: 81-82. May 1948. 44.8 L12
- 15246 HOOPER, A. D. Farm labour costs in Wales 1946/47. *Aberystwyth, U. Col. of Wales, Dept. of Agr. Econ.*, 1948. 18 p. 283.9 Un392
- 15247 HOROWITZ, H. New York farms and child labor. *Cornell Countryman* 46: 6, 12. Oct. 1948. 6 C81
- 15248 HURD, L. M. Saving labor on poultry farms. *Md. State Poultry Council. Proc.* 1948: 35-36. 1948. 47.9 M36P
- 15249 KAAS, J. Das landarbeitgesetz [Austria]. *Landwirtschaft* 1948: 214-215. Aug. 21, 1948. 19 L235
- 15250 KNEUTTINGER. Gedanken zur ausbildung von milchwirtschaftlichem fachpersonal. *Süddeut. Molkerei-Ztg.* 69: 43-45. Feb. 26, 1948. 44.8 Su2
- 15251 LEITE, J. Some ideas about medical and hospital aid to sugar workers. (In Portuguese.) *Brasil Açucareiro* 32: 140-144. July/Aug. 1948. 65.8 B73
- 15252 LEITNER, H. Die landarbeiterlöhne im lichte der volkswirtschaft. *Landarbeiter-Archiv* 3: 223-226. July/Aug. 1948. 283.8 L23
- Austria.
- 15253 MAVINKURVE, B. S. Agricultural wages and systems of payment in the Bombay Karnatak. *Indian J. Agr. Econ.* 3(1): 60-68. Apr. 1948. 281.8 In2
- 15254 MIKKOLA, V. Possibilities for simplification of cattle chores. (In Swedish.) *Prakt. Försöksverks.* 4: 65-66. Oct. 1947. 20 P88



- 15255 MOKSHANTSEV, G. K. Zamira Motalova. Ed. 2. Moskva, "Molodaia Gvardiia," 1948. 95 p. (Geroi Stalinskoi Piatiletki) 283 M722  
Women in agriculture.
- 15256 MOLLER A., E. Basta la mano de obra disponible en provincias centrales de Chile? Agrario 13 (402): 8. Oct. 1948. 9.3 Ag85
- 15257 NATIONAL FARM LABOR UNION, EXECUTIVE BOARD. Agricultural labor in 1948; report... 15th annual convention. Farm Labor News 3(13): 2-3. Dec. 1948. 283.8 F224
- 15258 OSER, J. Productivity of agricultural workers by size of enterprise and by regions. J. Farm Econ. 30: 764-770. Nov. 1948. 280.8 J822
- 15259 PETTERSSON, E. Simplify the milking chores. (In Swedish.) Ladugården 1948: 4, 14. Jan. 1948. 44.8 L12
- 15260 RAMAKRISHNAN, K. C. Systems of wage payment in agriculture (with special reference to Madras). Indian J. Agr. Econ. 3(1): 15-23. Apr. 1948. 281.8 In2
- 15261 ROTTERSTEN, K. The labor problem in artificial insemination. (In Swedish.) Ladugården 1948: 192-193. Sept. 1948. 44.8 L12
- 15262 ROUSSEL, G. De la légalité des arrêts préfectoraux fixant les conditions du travail et des salaires dans l'agriculture. Rustica 21: 534. Aug. 1, 1948. 14 R92  
France.
- 15263 SACQUET, H. Ce que coûtent les grèves. Monit. Agr. 1(42): 10. Oct. 31, 1948. 14 M744  
France.
- 15264 SINHA, L. P. Agricultural wages and systems of wage payment in Bihar. Indian J. Agr. Econ. 3(1): 39-45. Apr. 1948. 281.8 In2
- 15265 SIVASWAMY, K. G. Agricultural labour and systems of wage payment. Indian J. Agr. Econ. 3(1): 29-32. Apr. 1948. 281.8 In2
- 15266 SKRINDO, T. Labor and farm mechanization in American agriculture. (In Swedish.) Tidsskr. for det Norske Landbr. 55: 197-210. Ref. July/Aug. 1948. 11 T433
- 15267 STODART, J. A. Potato-lifting and barley prices. Farming News & North Brit. Agr. 100(46): 5. Nov. 5, 1948. 10 N82  
Labor difficulties in potato harvesting and regulations affecting barley prices in Scotland.
- 15268 TULUPNIKOV, A. I. Rationalization of work processes in collective farm production. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Ti-mirfazeva. Dok. 7: 234-237. 1948. 20 M857  
Work management.
- 15269 TURNER, P. The labor situation and labor laws. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 152, 154, 156-158. 1948. 81 V52
- 15270 UHLIRS, J. Das dritte urteil des verfassungsgesichtshofes in der frage der berufsvertretung der land- und forstarbeiter. Landarbeiter-Archiv 3: 197-200. July/Aug. 1948. 283.8 L23  
Austria.
- 15271 UHLIRS, J. Die landarbeiter in den bäuerlichen betrieben und ihre löhne. II. Landarbeiter-Archiv 3: 213-220. July/Aug. 1948. 283.8 L23  
Austria.
- 15272 U. S. EXTENSION SERV. Great Plains States wheat and small grain harvest, 1943-1947, by E. H. Leker. Washington, 1948. 31 p. 1.913 A3W56  
Farm labor program.
- 15273 WALLRABENSTEIN, P. P. Wages and wage rates of hired farm workers, United States and major regions. U. S. Bur. Agr. Econ. Surveys of Wages and Wage Rates in Agr. Rpt. 21, 57 p. Sept. 1948. 1.941 R3Su7
- 15274 WINDISCH, K. Das neue landarbeitergesetz. Kärntner Bauer 98: 230-231. July 15, 1948. 19 K14
- 15277 ALVARE, M. DE. La política agraria: hechos y proyecciones. Rev. Nac. de Cien. Polit.-Econ.-Sociales 7(82): 7-9. Sept. 1948. 280.8 R3295  
Cuba.
- 15278 AMIR, A. Our present agr. production capacity. (In Hebrew.) Hassadeh 28: 497-498. Sept. 1948. 26 H27
- 15279 AMOSOV, N. Za dal'neishii rasstsvet kolkhoz-nogo stroia [For the further flourishing of the collective farm system]. Moskva, Moskovskii Rabochii, 1948. 47 p. 281.179 Am6
- 15280 ANHOURY, J. Images de l'Égypte agricole. Cahiers des Ingén. Agron. 2(27/30): 10-17. Sept./Dec. 1947. 14 C112
- 15281 ARAGÓN MONTEJO, J. La revancha del campo (apuntes de política agraria). Ager 4(37/38): 11-14; (39/40): 56-58. (Cont.) Jan./Feb.-Mar./Apr. 1948. 33.23 Ag3  
Spain.
- 15282 ARGENTINE REPUBLIC. MINISTERIO DE AGRICULTURA. Plan de gobierno del Ministerio de Agricultura; objetivos de su acción en 1948. Buenos Aires, 1948. 13 p. 281.161 Ar3
- 15283 ARNESON, E. A. U. S. D. A. seeks balanced abundance. Peanut J. & Nut World 28(2): 67-69. Dec. 1948. 77.8 P313
- 15284 ARRIAGADA HERRERA, J. La agricultura en vecinos y en lejanos países. Campesino [Santiago] 80(8): 9, 11-13; (9): 7, 9, 11. Aug.-Sept. 1948. 9.3 Sol2
- 15285 AULL, G. H. Resident instruction in agricultural policy. (Abs.) Assoc. Land-Grant Col. and U. Proc. 61: 84-85. 1947. 4 As7
- 15286 BEAUDIN, O. Le sol du Québec peut nourrir une population quintuplée. Terre de Chez Nous 21(8): 8. Nov. 17, 1948. 7 T27
- 15287 BEITRÄGE zur agrarwissenschaft. I. Hannover, Landbuch-Verlag. G. m. b. H., n.d. 18 B392
- 15288 BERNARD, P. Produire davantage. Monit. Agr. 1(41): 2. Oct. 24, 1948. 14 M744  
France.
- 15289 BHATTACHARJEE, J. P. Sriniketan, an experiment in rural reconstruction. Indian J. Agr. Econ. 3(1): 140-148. Apr. 1948. 281.8 In2
- 15290 BISSONNET, A. P. Agricultural resources of Italy unable to meet needs of large population. Foreign Trade 4: 926-928. Nov. 6, 1948. 286.8 C162
- 15291 BJØRNSTAD, R. A memorable year in Norwegian agriculture. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(50): 5. Dec. 13, 1947. 11 J762
- 15292 BLACK, J. D., and KIEFER, M. E. Future food and agriculture policy. New York, McGraw-Hill, 1948. 348 p. 281 B56F
- 15293 BOLGOV, A. About I. V. Stalin's work "Problems of the agrarian policy in U. S. S. R." (In Russian.) Voprosy Ekonom. 1948(4): 8-25. 1948. 280.8 V89
- 15294 BONMASSAR, S. Restoration of the cultivation of the land. (In Italian.) Agr. Trentina 3(6): 1. Mar. 15, 1948. 16 Ag8263
- 15295 BOWERS, W. A. Industrial development in Kansas; more industries belong in Kansas. Kans. U. P. Indus. Res. Ser. 13, 109 p. Lawrence, 1948. 280.029 B67  
Includes agriculture.
- 15296 BRANDOW, G. E. Long range agricultural program: other suggested programs. Northeast. Dairy Conf. Ann. Rpt. 13: 100-105. 1948. 44.9 N818
- 15297 BRANNAN, C. F. A fast-moving world. Washington, U. S. D. A., 1948. 12 p. 1.91 A2B73  
Includes discussion of the agricultural situation.
- 15298 BRANNAN, C. F. Outlook work in agriculture. Washington, U. S. D. A., 1948. 5 p. 1.91 A2B73
- 15299 BROMFIELD, L. Can our earth feed its people? Pig Prog. 13(5): 9-11. June 1948. 46.8 P622
- 15300 BUCK, J. L. Some basic agricultural problems of China. New York, 1947. 62 p. (Inst. of Pacific Relat. Secretariat Paper 1947(1)) 281.184 B85S
- 15301 BURGER, D. H. Agricultural planning. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 60: 431-439. Sept. 1948. 105.2 Or3
- 15302 CANADA. BUREAU OF STATISTICS. Canada 1948. Ottawa, 1948. 266 p. 253 St2C  
Contains chapters on agriculture and forestry.

#### AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS

- 15275 ÅKERMAN, Å. The agriculture of Scania and its adaptation to the actual situation. (In Swedish.) Lantbrukskad. Tidskr. 87: 239-252. 1948. 104 Sw3  
English summary.
- 15276 ALCORN, G. B. Agricultural outlook as of December, 1948. Calif. Agr. [Calif. Sta.] 2(12): 2. Dec. 1948. 100 C12Cag



- 15303 CANADA. DEPT. OF AGRICULTURE. AGRICULTURAL SUPPLIES BOARD. Canadian agricultural program for 1947. Ottawa, 1947. 63 p. 281.9 C165
- 15304 CARENA, A. Latest developments in Turin in the field of agriculture and agricultural mechanization. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 83: 147-149. Aug. 15/31, 1948. 16 C72
- 15305 CARTON, P. La mise en valeur des territoires d'outre-mer; Algérie et Union Française, rôle des ingénieurs agronomes dans cette œuvre. (Sum.) *Cahiers des Ingén. Agron.* 2(20): 32-34. Feb. 1947. 14 C112  
Text in French and English.
- 15306 CASE, H. C. M. Looking ahead with agriculture. *Canner* 107(22): 12, 14, 22; (23): 20, 24. Nov. 27, Dec. 4, 1948. 286.83 C16
- 15307 CERVI, B. The Appennines, dorsal spine of Italian agriculture. (In Italian.) *Gior. di Agr.* 57: 4. Jan. 5, 1947. 16 It1G
- 15308 CHATER, S. W. Short-term agricultural policy. *Primary Prod.* [Cape Town] 23(35): 17. Sept. 3, 1948. 281.9 P93
- 15309 CHEVALLAZ, G. A. Les cantons du Valais et de Fribourg. *Rev. Econ. Franco-Suisse* 28: 270-278. Oct. 1948. 287 Su6  
Includes agriculture.
- 15310 CIAFFI, B. Agriculture of the Province of Ancona. (In Italian.) *Cam. di Com. Indus. e Agr. di Ancona. B. Econ.* 2(8): 3-6. Aug. 1948. 280.9 An2
- 15311 CLARK, N. Opportunities and responsibilities of land-grant institutions as regards issues of agricultural policy. (Abs.) *Assoc. Land-Grant Col. and U. Proc.* 61: 82-83. 1947. 4 As7
- 15312 CLELAND, S. B. Big 1948 crops shift emphasis in farm production to livestock. *Midland Coop.* 16(13): 3. Dec. 1, 1948. 280.28 M58
- 15313 COLLINS, E. R. A long range agricultural program for Clay County, N. C. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 77-78. 1948. 4 C82
- 15314 CONSERVATION AND UNIONIST PARTY ORGANIZATION. The agricultural charter; a statement of conservative agricultural policy. London, 1948. 51 p. 281.171 C76A
- 15315 CRESCIOLI, S. The influence of the war period on Argentine agriculture. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 42: 187-194. July/Sept. 1948. 26 Ag82  
English summary.
- 15316 DAHLGREN, J. Impressions of agriculture in Jämtland during the study trip 1947. (In Swedish.) *Västerbotten* 1947: 53-55. Aug. 1947. 11 V442
- 15317 DAY, C. Changes in Maine agriculture through the years; annual value of States' agricultural crop is close to \$100 million. *Grange Herald* 11(3, sect. C): 1-2. Oct. 1948. 6 G764
- 15318 DELLA VALLE, E. Ligurian agriculture. (In Italian.) *Gior. di Agr.* 58: 293-294. Oct. 24, 1948. 16 It1G
- 15319 DÍAS OSSA, A. Estimación de la producción de la provincia de Coquimbo. *Agr. del Norte* 38: 117-120. June/July 1948. 9.3 S014
- 15320 DIETZE, C. VON. The state of German agriculture. *Amer. Acad. Polit. and Social Sci. Ann.* 260: 74-79. Nov. 1948. 280.9 Am34
- 15321 DUGRÉ, A. Le voyage de liaison rurale: en Colombie. *Terre de Chez Nous* 21(8): 9, 16. Nov. 17, 1948. 7 T27
- 15322 EVANS, J. Japanese agriculture viewed by agronomists. *Purdue Agr.* 40: 9, 14. Oct. 1948. 6 P97
- 15323 FILOSA, V. Urgent reforms and concomitant interests (or let's save the farms). (In Italian.) *Voce dei Campi, dei Mercati e delle Off.* 37(39): 1, 4. Sept. 15, 1948. 16 V85  
Italy.
- 15324 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Annual report of the government of the United States of America to the Food and Agriculture Organization of the United Nations. June 1948. 52 p. 389.9 F735Us
- 15325 FOXÁ, J. La agricultura norteamericana como experiencia y como modelo. *Cooperación* 7(75/76): 2-3. May/June 1948. 280.28 C7875
- 15326 FRANCE. DIRECTION DE L'INFORMATION. Trois ans de présence française en Sarre. France. Dir. de l'Inform. Notes Docs. et Etudes 991, 79 p. Sept. 13, 1948. 280.9 F843  
Includes agriculture and food.
- 15327 FRANCE. DIRECTION DE LA DOCUMENTATION. L'évolution économique de l'Indochine. 1-2. France. Dir. de la Doc. Notes Doc. et Etudes 998, 19 p.; 999, 30 p. 1948. 280.9 F843  
Includes agriculture and agricultural planning.
- 15328 FREGOLA, C. Agricultural inspectorates and economic agricultural societies. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 158-160. Sept. 15, 1948. 16 C72
- 15329 FUENTES IRUROZQUI, M. Alta Andalucía (Córdoba y Jaén). *Inform. Com. Españ.* 179: 14-20. July 15, 1948. 286.8 In3  
Text in English, p. 21-27.  
Includes agriculture.
- 15330 FUNCHES, M. J. Farm problems of the Cotton Belt. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 5-11. 1948. 4 C82
- 15331 GANS, A. R. Northeast agriculture. *North-easter* 1948: 5-6. Summer 1948. 284.28 N81
- 15332 GEORGE, J. F. Agronomical activity in Mozambique. (In Portuguese.) *Agros* 31: 191-197. July/Aug. 1948. 15.5 Ag82
- 15333 GERTSOVICH, G. Restoration of a peaceful economy in the Soviet Zone of occupied Germany. (In Russian.) *Voprosy Ekonom.* 1948: 93-101. Mar. 1948. 280.8 V89  
Includes agriculture.
- 15334 GHALI, M. B. Problèmes de l'Égypte agricole. *Soc. Belge d'Études & d'Expansion. B. Bimest.* 47: 534-537. Aug./Oct. 1948. 280.8 So17
- 15335 GILE, B. M., and MONTGOMERY, J. P. The Agricultural Act of 1948. *La. Rur. Econ.* 10(4): 2-3, 5-7. Nov. 1948. 281.8 L93
- 15336 GRABÖ, P. English agriculture, production, prices and wages. (In Swedish.) *Lantmannen* 32: 725-727. Oct. 30, 1948. 11 L234
- 15337 GRABÖ, P. How England tries to increase agricultural production. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland.* 18(42): 1, 11. Oct. 16, 1948. 11 J762
- 15338 GRANDIN, P. Où en est la production agricole française? *Foyer Rur.* [Montreal] 7(12): 4. Sept. 1948. 7 F83
- 15339 GRAVEUX. Les industries agricoles et connexes. (Sum.) *Cahiers des Ingén. Agron.* 2(20): 19-20. Feb. 1947. 14 C112  
Text in French and English.
- 15340 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Uganda for the year 1946. London, 1948. 112 p. 256.02 C71  
Contains data on agriculture.  
Library of the U. S. Dept. of Agriculture has similar 1946 reports for Nigeria, Mauritius, Bechuanaland Protectorate, Bermuda, Cayman Islands, Turks and Caicos Islands, Trinidad & Tobago, Tonga, Swaziland, St. Vincent, St. Lucia, Nyasaland, Northern Rhodesia, Gold Coast, and Gibraltar, and 1947 reports for Singapore and Barbados.
- 15341 GREW, R. Greater agricultural production essential to economy of India. *Foreign Trade* 4: 999-1001. Nov. 13, 1948. 286.8 C162
- 15342 GROENMAN, S. Staphorst; sociografie van een gesloten gemeenschap [Staphorst, sociology of a closed community]. Meppel, Stenvert, 1948. 238 p. Ref. 280.172 G89  
Proefschrift U. Amsterdam.  
Agriculture, p. 105-144.
- 15343 GROOTEN, R. La situation de l'agriculture en 1947. *Rev. de l'Agr.* 1: 371-414. May 1948. 13 R322  
Belgium.
- 15344 GRUEN, F. H. Some economic problems facing agriculture in the United States. *Rev. Mktg. Agr. Econ.* 16: 229-237. June 1948. 286.8 N47M
- 15345 GUILLERET. Problèmes agricoles en Suisse. France. Min. de l'Agr. *Rev. Etudes & Monog.* 1948(6): 91-104. June 1948. 281.8 F84
- 15346 GÜNTART, A. Wenn wir bauern in die zukunft blicken. *Grüne* 76: 1011-1012. Sept. 24, 1948. 17 Sch9  
Switzerland.



- 15347 HÅKANSSON, R. With reference to the agricultural reform. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(46): 5. Nov. 15, 1947. 11 J762
- 15348 HANNAH, H. W. An educational program in agricultural law. J. Farm Econ. 30: 770-776. Nov. 1948. 280.8 J822
- 15349 HENSON, E. R. Report on the agricultural rehabilitation program in China. New York, Internat. Sec., Inst of Pacific Relat., 1947. 19 p. 281.184 H39
- 15350 HERAN, J. Le Plan Monnet. Paysan du Sud-Ouest 3(117): 4. Mar. 15, 1947. 14 P292
- 15351 HOLLJE-LUERSSSEN. Gegenwartsfragen des landwirtschaftsrechts [Germany]. Landwirtschaftsblatt Weser-Ems 95: 209-210. (Concl.) Oct. 20, 1948. 18 L2345
- 15352 HOLMAN, C. W. Long range agricultural program: National Cooperative Milk Producers' Federation. Northeast. Dairy Conf. Ann. Rpt. 13: 89-95. 1948. 44.9 N818
- 15353 INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Outlook for Indiana agriculture in 1949. Purdue U. Agr. Ext. Econ. Mktg. Inform. for Ind. Farmers 1948: 16 p. Oct. 18, 1948. 275.29 In2Em
- 15354 JESNESS, O. B. International aspects of agricultural policy. (Abs.) Assoc. Land-Grant Col. and U. Proc. 61: 87-88. 1947. 4 As7
- 15355 JOHNSON, S. E. Agricultural production and international recovery programs. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 52-53. 1948. 4 C82
- 15356 KAMENICEK, L. Prolegomena k zemědělské filosofii. Introduction to agricultural philosophy. Brunn. Vysoká škola zeměděl. Fakulta Hospodář. Sborn. Sign C 41: 1-52. 1948. 105.92 B834  
English summary.
- 15357 KANSAS. AGRICULTURAL EXPERIMENT STATION. Probable and suggested adjustments in Kansas agriculture for 1949. Kans. Agr. Expt. Sta. Agr. Econ. Rpt. 35, 41 p. Aug. 1948. 281.9 K132  
U. S. Bureau of Agricultural Economics cooperating.
- 15358 KARRA, V. Economic development of the Rumanian People's Republic. (In Russian.) Voprosy Ekonom. 1948(4): 74-81. 1948. 280.8 V89  
Includes agricultural policy.
- 15359 KING, F. P. Government programs and their impact on production adjustment in agriculture. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 55-56. 1948. 4 C82
- 15360 KIRKPATRICK, W. G. Germany as I found it. Mich. Farmer 210: 304-306. Nov. 6, 1948. 1948. 280.8 V89  
Includes agriculture in Germany.
- 15361 KLAUS, E. Zwangswirtschaft—ruin der landwirtschaft. Landpost 4(13): 6. July 10, 1948. 18 L2329  
Germany.
- 15362 KLEMFUSS, H. C. Caribbean larder. Pan American 9(6): 49-53. Nov. 1948. 280.8 P192  
Includes the agricultural production of the Dominican Republic.
- 15363 KLINE, A. Long range agricultural program: American Farm Bureau Federation. Northeast. Dairy Conf. Ann. Rpt. 13: 96-100. 1948. 44.9 N818
- 15364 KRAUS, J. Die bauern stellen das erste bataillon für den wiederaufbau. Osterr. Bauernbündler 4(37): 5. Sept. 18, 1948. 19 Os7
- 15365 KREHAN, H. Wann ist „selbsthilfe“ erlaubt? Kärntner Bauer 98: 304-305. Sept. 15, 1948. 19 K14
- 15366 LADEJINSKY, W. I., LEONARD, W. H., and WILLIAMSON, M. B. Prospects for Japanese agriculture. Foreign Agr. 12: 240-245. Nov. 1948. 1 Ec7For
- 15367 LEFEUVRE. Législation rurale et vie sociale. (Sum.) Cahiers des Ingén. Agron. 2(20): 27-29. Feb. 1947. 14 C112  
Text in French and English.
- 15368 LEHURAUX, L. L'avenir du nomadisme au pays du mouton. Mouton 2: 75-77. July 10, 1947. 45.8 M86  
Agricultural policy of Algeria.
- 15369 LELAND, A. S. Agriculture in the Connecticut Valley counties. Farm Bur. Mass. 1948: 14-17. Nov. 1948. 275.293 Mass.
- 15370 LIEU, S. C. A study in allocation of agriculture. (In Chinese.) J. Agr. Econ. 1(3): 1-29. June 1948. 281.8 J822
- 15371 LIU, C. Y. Planned economy and agricultural planning. (In Chinese.) J. Agr. Econ. 1(3): 58-65. June 1948. 281.8 J822
- 15372 MCCULLOUGH, W. B. Agricultural policies in Argentina, 1947. Overseas Rpt. Agr. Devlpmt. 9, 3 p. July 1948. 281.9 C16420
- 15373 MACFARLANE, D. Revolution in agriculture! Country Guide 67(11): 7, 34, 36-37. Nov. 1948. 7 G76  
Changes in agriculture with particular reference to Canada.
- 15374 MANGANO, G. A harsh reality. (In Italian) Gior. di Agr. 57: 31. Feb. 9, 1947. 16 It1G  
Italian productive capacity.
- 15375 MANGOLD. Die nächsten aufgaben der landwirtschaftswissenschaft. Deut. Landw. Gesell. Arb. (n. s.) 1: 23-43. 1947. 18 D48
- 15376 MARANI, C. War damages and agricultural reconstruction [Italy]. (In Italian.) Gior. di Agr. 57: 14. Jan. 19, 1947. 16 It1G
- 15377 MARESCALCHI, A. The Marshall Plan should truly help agriculture. (In Italian.) Ital. Vinic. ed Agr. 38: 121-122. June 15, 1948. 95.8 It1
- 15378 MASOIN, M. La situation économique du Congo Belge. Louvain. U. Catholique. Inst. de Rech. Econ. et Sociales. B. 14: 467-501. Aug. 1948. 280.9 L92  
Includes agriculture.
- 15379 MAUGINI, A. Creators of wealth: the farmers of Cirenaica. (In Italian.) Gior. di Agr. 57: 15. Jan. 19, 1947. 16 It1G
- 15380 MAULDON, F. R. E. The Western Australian economy—1944/45 and 1945/46. Perth, W. A. Indus. Expansion Comn, 1947? 20 p. 280.1992 M44  
Includes agriculture.
- 15381 MAYNOR, W. T. Baldwin County [Alabama]—an all-year garden. Nation's Agr. 23(11): 7, 11, 13. Dec. 1948. 280.82 B89
- 15382 MEDICI, G. Agriculture and the Marshall Plan. (In Italian.) Italia Agr. 85: 479-487. Sept. 1948. 16 It1
- 15383 MIDDLE AMERICA INFORMATION BUR. Panama: crossroads of the hemisphere. Rev. New York, 1948. 9 p. 125 M583  
Includes agriculture.
- 15384 MONT'ALEGRE, O. The SALTE Plan, its concept, its content, its possibilities. (In Portuguese.) Observador Econ. e Financ. 13(151): 49-65, 147-158. Aug. 1948. 280.8 Ob72  
Brazil.
- 15385 MYERS, W. I. The effect of the European situation on American agriculture. Veg. Growers Assoc. Amer. Ann. Rpt. 40: 177-190. 1948. 81 V52
- 15386 NEW YORK STATE COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. New York economic handbook 1949; agricultural outlook. N. Y. Agr. Col. A. E. 685, 53 p. Dec. 1948. 281.9 C81
- 15387 NEW ZEALAND. Twenty-fifth report of the administration of the Territory of Western Samoa, for the year ended 31st March, 1948. Wellington, 1948. 54 p. 272 N48  
Includes agriculture.
- 15388 NORTON, L. J. Economic outlook for agriculture. Com. & Financ. Chron. 168: 2278, 2302. Dec. 2, 1948. 286.8 C73
- 15389 ODLUM, G. M. What is right and wrong with Rhodesia. Farmer's Weekly [Bloemfontein] 76: 95, 97. Oct. 20, 1948. 24 F225  
Includes agricultural situation.
- 15390 OHIO. AGRICULTURAL PRODUCTION ADJUSTMENT COMMITTEE. Production adjustments in Ohio agriculture in 1949 (under assumed conditions). Ohio. State U. Dept. Rur. Econ. and Rur. Sociol. Mimeog. B. 205, 23 p. Oct. 1948. 281.9 Oh32
- 15391 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. 1949 farm production prospects in Oklahoma. Okla. Agr. Expt. Sta. Mimeog. C. M-175, 27 p. Oct. 1948. 100 Ok4M  
U. S. Bureau of Agricultural Economics cooperating.
- 15392 OWEN, W. F. Some aspects of agricultural policy [Australia]. Rev. Mktg. Agr. Econ. 16: 289-314. July 1948. 286.8 N47M
- 15393 PÁLSSON, H. Execution of farm legislation. (In Icelandic.) Freyr 43: 242-248. Aug. 1948. 11 F89  
State aid for farm improvement in Iceland.



- 15394 PARSONS, F. L. Continued farm prosperity envisioned. Fed. Res. Bank Minneapolis. Monthly Rev. 9: 615-616, 622-624. Oct. 30, 1948. 284.8 F31M
- 15395 PATER JZ., C. Agriculture and gardening in the Province of Utrecht. (In Dutch.) Boerengemeenschap 5(11): 4-5. July 10, 1948. 12 B634
- 15396 PATERSON, P. Britain's farmers have a three-year plan. Better Farms 8(12): 6, 16. Nov. 15, 1948. 6 B462
- 15397 PEYRONNET, R. L'année agricole 1948. Rev. Agr. de l'Afrique du Nord 46: 464-465. Sept. 17, 1948. 80 R326
- 15398 PINXTEN, K. L'évolution de l'agriculture belge en 1947. Louvain. U. Catholique. Inst. de Rech. Econ. et Sociales. B. 14: 393-420. Aug. 1948. 280.9 L92
- 15399 POZZI, C. M. Progreso provincial, Plan Mercante. Buenos Aires. Dir. de Med. Vet. B. 4(21/22): 4-7. 1947. 41.9 B865  
Includes agriculture.
- 15400 QUISENBERRY, K. S. Crop production potentials in relation to freedom from want. Chron. Bot. 11: 237-245. Ref. Summer 1948. 450 C46
- 15401 RAMOS, J. B. Research and observations on Brazilian rural production. (In Portuguese.) Brazil. Serv. de Econ. Rur. B. 4/5(6/7): 1-19. Ref. Jan. 1946/Dec. 1947. 281.9 B73B
- 15402 REIS, A. C. F. The Brazilian Amazon. (In Portuguese.) Rev. Bras. de Geog. 9: 83-104. Jan./Mar. 1947. 278.8 R32  
Summary in French, Spanish, Italian, English, German, and Esperanto.  
Includes agriculture.
- 15403 RUSSELL, SIR E. J. Modern books on agriculture. Brit. Agr. B. 1: 25-27. Spring 1948. 10 B776
- 15404 SANDKÜHLER, W. Die marktleistung süd-badischer beispiebsbetriebe. Landpost 4(7): 2-3. Apr. 10, 1948. 18 L2329  
Germany.
- 15405 SCARSETH, G. D. Bumper crop is our salvation. Hoosier Farmer 33(11): 21, 40. Nov. 1948. 280.82 H76
- 15406 SCHIETHART, L. J. A new proposal of law on agriculture. II. (In Dutch.) Econ. Statis. Ber. 33: 810-813. Oct. 13, 1948. 280.8 Ec722  
English summary.  
Netherlands.
- 15407 SCHLÖGL, A. Leistungsbilanz der bayerischen landwirtschaft. Landw. Wchnbl. 138: 217-218. Aug. 28, 1948. 18 L2338
- 15408 SCHULZ, G. Leistungsstarke landwirtschaft [Germany]. Neue Mitt. f. die Landw. 3: 352. Oct. 25, 1948. 18 N39
- 15409 SCHUT, W. F. B. Introduction to lectures on agricultural planning problems. (In Dutch.) Landbouwk. Tijdschr. [Wageningen] 60: 429-430. Sept. 1948. 105.2 Or3
- 15410 SEATON, H. E. Future of agriculture. Town & Country Planning 16: 173-176. Autumn 1948. 98.58 T66  
Great Britain.
- 15411 SINGH, D. N. Agricultural development. Allahabad Farmer 22: 325-328. May 1948. 22 AL5
- 15412 LA SITUATION économique au Japon. France. Inst. Natl. de la Statis. et des Études Econ. Etudes et Conjoncture. Econ. Mond. 3(6/8): 147-162. June/Aug. 1948. 280.9 F842  
Includes agriculture.
- 15413 SOKOLOV, M. M. Intensification of agriculture in U. S. S. R. during the new Stalinite Five Year Plan. (In Russian.) Moskov. Ordena Lenina Sel'skhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 230-233. 1948. 20 M857
- 15414 STAHLBERG, H. New regulations in regard to State aid for rationalization of agriculture as well as farm ownership work. (In Swedish.) Lantbrukstidskr. för Dalarna 1948: 153-157. Oct. 1948. 11 L29
- 15415 STINE, O. C. [Outlook for agriculture.] Washington, U. S. Bur. Agr. Econ., 1948. 3 p. 1.941 H22St5
- 15416 STOCKBURGER, S. Das dänische beispiel. Bad. Landw. Wchnbl. 3: 163-164. Oct. 9, 1948. 18 B142  
Also in Württemberg. Wchnbl. f. Landw. 115: 285. Oct. 16, 1948. 18 W96  
Agriculture.
- 15417 STUSSI, D. Aus dem Glarnerland. Grüne 76: 1116-1118. Oct. 15, 1948. 17 Sch9  
Agriculture.
- 15418 SVÄRDSTRÖM, K. F. Agriculture in the national economic discussion. (In Swedish.) Lantmannen 32: 247-248. Apr. 10, 1948. 11 L234
- 15419 TOWNSEND, J. C., JR. Fall crops continue advance; increasing harvests into January in prospect. Fla. Grower 56(12): 8-9, 27-28. Dec. 1948. 80 F6622
- 15420 TOXOPEUS, P. C. D. Walcheren 1947. (In Dutch.) Nederlandsch. Heidemaatsch. Tijdschr. 59: 97-100. Mar. 1948. 12 N282  
Agriculture.
- 15421 TROW-SMITH, R. Fifteen-point programme for 1949. Farmer & Stock-Breeder 62: 2648. Nov. 16, 1948. 10 F228  
Past achievements and future aims, Somerset County, England.
- 15422 U. S. DEPT. OF AGRICULTURE. Report to the Inter-Agency Committee for the Development of Alaska on the Department's activities in Alaska in fiscal year 1949. Washington? 1948. 10 p. 1.90 C2In87
- 15423 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Outlook time for agriculture, by O. C. Stine, B. Allin, M. L. Wilson, and others. Washington, 1948. 6 p. 1.941 H22St5
- 15424 U. S. LAWS, STATUTES, ETC. 1945-1946 pocket supplement to laws applicable to the United States Department of Agriculture. Washington, 1948. 326 p. 1 So45L1
- 15425 U. S. PRODUCTION AND MARKETING ADMIN. Summary of "Agricultural Act of 1948." Washington, 1948. 6 p. 1.956 A2Su65
- 15426 URBAIN, Y. La conjoncture économique de la Belgique. Louvain. U. Catholique. Inst. de Rech. Econ. et Sociales. B. 13: 143-188, 591-635. June 1947, May 1948. 280.9 L92  
Includes agriculture.
- 15427 URUGUAY. MINISTERIO DE GANADERIA Y AGRICULTURA. Plan agropecuario nacional. Montevideo, Impr. Nacional, 1947. 292 p. 281.167 Ur8
- 15428 VEDOVATO, G., MORENO, M. M., and MANGANO, G. The question of the administration of Italian colonies in Africa under trusteeship. Firenze, 1947. 107 p. (Florence U. Center Colon. Stud. 35) 282.2 V51  
The economic and agricultural problem, by G. Mangano, p. 71-99.
- 15429 VICINELLI, P. Italian agriculture and E. R. P. Rev. Econ. Cond. Italy 2: 312-317. Sept. 1948. 280.8 R3236
- 15430 WALLENSTEEN, R. A visit with the farmers in the alpland; old and new in Switzerland. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(47): 1, 4. Nov. 22, 1947. 11 J762
- 15431 WELLINGTON, H. H. The food-producing possibilities of the Okovango Delta. So. African Sci. 2: 65-67. Oct. 1948. 475 So8
- 15432 WELLMAN, H. R. Research relating to agricultural policy. (Abs.) Assoc. Land-Grant Col. and U. Proc. 61: 83-84. 1947. 4 As7
- 15433 WELTY, B. H. Farmers need fair opportunity. Inter-State Milk Prod. Rev. 29(8): 8-9. Dec. 1948. 280.28 In83
- 15434 WILSON, H. D. Something wrong. Sweet Potato J. 3(7/9): 16. July/Sept. 1948. 80 Su32  
Agricultural situation.
- 15435 ZAVALA BUSTOS, J. La agricultura en la zona de Tingo María. II. Vida Agr. [Lima] 25: 747-751. Sept. 1948. 9.8 V66  
Subsidies
- 15436 BERTHAULT, P. Le probleme de la prime à l'hectare de blé. Rev. Agr. de l'Afrique du Nord 46: 439-441. Sept. 3, 1948. 80 R326
- 15437 CHAPIN, V. L. Netherlands proposes reduction in food subsidies in effort to balance budget. Foreign Trade 4: 930-931. Nov. 6, 1948. 286.8 C162
- 15438 LENZI, A. Subsidies also on capital account [Italy]. (In Italian.) Gior. di Agr. 57: 26. Feb. 2, 1947. 16 ItIG



## COST AND STANDARD OF LIVING

- 15439 BRANNAN, C. F. A better agriculture—a better world. Washington, U. S. D. A., 1948. 10 p. 1.91 A2B73  
Standard of living.
- 15440 CORBETT, E. J. Who is responsible for the high cost of living? Not the farmer. United Farmers of New England. News 8(6): 4, 15. Dec. 1948. 6 Un35
- 15441 HARRIS, J. W. Better living is broader living. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 114-115. 1948. 4 C82
- 15442 HOGAN, M. Better living is broader living. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 117-118. 1948. 4 C82
- 15443 HOSTETTER, R. Profitable farming can bring good farm living for you. Ill. Agr. 53(3): 5. Dec. 1948. 6 IL6
- 15444 LONGMORE, T. W. Trends in farm family levels of living in Virginia. U. Va. News Let. 25(4): 1. Nov. 15, 1948. 280.9 V815
- 15445 MIR, A. Les ouvriers agricoles du Midi dépasseront-ils le prolétariat? Foyer Rur. [Paris] 11(53): 3. Oct. 31, 1948. 14 F83  
Need for improving living conditions.
- 15446 NELSON, L. Can farmers afford to live better? Natl. Planning Assoc. Planning Pams. 65, 32 p. Nov. 1948. 280.9 N2153
- 15447 PRATOLONGO, U. Mirages and reality. (In Italian.) Italia Agr. 85:493-494. Sept. 1948. 16 It1  
Improvement of living standards.
- 15448 REID, M. G. Changing levels of living among farm families in the South. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 56-58. 1948. 4 C82
- 15449 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Outlook charts, rural family living. Washington? 1948? 103 p. 1.982 A2Ou83  
U. S. Bureau of Agricultural Economics cooperating.
- 15450 WEISS, G. S. Family living outlook; many families improving homes. Agr. Situation 32(11): 7. Nov. 1948. 1 Ec7Ag
- 15451 WEISS, G. S. Outlook for farm family living, 1949. Washington, U. S. Bur. Agr. Econ., 1948. 5 p. 1.982 A2W43

## FARM MANAGEMENT AND LAND ECONOMICS

- 15452 ANDERSSON, A., NILSSON, T., and BERG, S. G. Pasture problems in connection with farm rationalization. (In Swedish.) Svenska Vall- och Mosskultur-för. Kvtlsskr. 9: 223-236. Dec. 1947. 11 Sv27  
Discussion, p. 237-246.
- 15453 ARIZONA. STATE LAND COMMISSIONER. Thirty-sixth annual report, July 1, 1947 to June 30, 1948 inclusive. Phoenix, 1948. 30 p. 252.05 L22
- 15454 AYRE, A. G. Farming in Newfoundland. Family Herald & Weekly Star 79(50): 3, 15, 17. Dec. 15, 1948. 7 F21
- 15455 BRADSHAW, B. H. We want tools, labour and profit. Dairy Farmer [Ipswich] 21(9): 10. Sept. 1948. 44.8 D1414  
Increasing farm production.
- 15456 BROWN, A. H. We are driven to spirit of competition. Dairy Farmer [Ipswich] 21(9): 10. Sept. 1948. 44.8 D1414  
Increasing farm production.
- 15457 BYERS, G. B. Systems of farming for the Lower-Ohio-Valley crop-livestock region of Kentucky. Ky. Agr. Expt. Sta. B. 521, 52 p. June 1948. 100 K41
- 15458 CANINO, M. Share farming; at the cross-roads! (In Italian.) Gior. di Agr. 57: 13. Jan. 19, 1947. 16 It1G  
Italy.
- 15459 CARPENTER, F. R. The Federal land policy. Idaho Wool Growers Assoc. 27(23): 6-8. Nov. 10, 1948. 280.28 Id1
- 15460 CASALINI, M. Organize the small farm. (In Italian.) Gior. di Agr. 58: 319. Nov. 14, 1948. 16 It1G
- 15461 CAVINA, R. The capital necessary for farming. (In Portuguese.) Agronomia [Rio de Janeiro] 7: 97-100. Apr./June 1948. 9.2 Ag892
- 15462 CHRISTENSEN, L. The specialization of agriculture. (In Danish.) Dansk Landbr. 67: 387-389. Oct. 14, 1948. 280.28 V91
- 15463 COOKSEY, R. M. Black walnuts in diversified farm program. Ky. Farmer 84(11): 15. Nov. 1948. 6 F2237
- 15464 COOPER, T. P. Common-sense financial advice to farmers. Prod. Credit Assoc. PCA Ideas 1948: 7. Nov. 1948. 284.28 P29
- 15465 COX, J. F., and JACKSON, L. E. Crop management and soil conservation. Ed. 2. New York, Wiley, 1948. 572 p. (Wiley Farm Ser.) 64 C83C
- 15466 CRAYBILL, W. R. Veterans in Louisa County, Virginia stage conservation demonstration. Agr. Ed. Mag. 21: 135, 142. Dec. 1948. 275.8 Ag8  
Conservation farming.
- 15467 CROSS, P. E. The place of vegetable crops in farming. Agr. Prog. 22: 106-112. 1947. 10 Ag86
- 15468 DANKENBRING, R. For seven weeks "I was an Italian farmer." Iowa Agriculturist 47(4): 8-9. Nov. 1948. 6 Io9
- 15469 DAVIS, W. S. A long range land policy. Land Let. 8: 7. Aug. 1948. 279.8 L22L
- 15470 DIONIDO, P. B. Diversified farming gives steady income to farmers. Agr.-Com.-Indus. Life 10(9): 4-5. Sept. 1948. 25 Ag8  
In the Philippine Republic.
- 15471 DONINI. Share farming before the Chamber [Italy]. (In Italian.) Voce dei Campi 3(22): 3. Aug. 31, 1948. 16 V852
- 15472 DURAN, L. La tierra como sujeto economico. Aliment. Nac. 7(128): 2. Sept. 25, 1948. 389.8 AL42
- 15473 EDWARDS, K. E. Farming in Kenya. West-railian Farmers' Co-op Gaz. 14: 183-184. Sept. 1948. 280.28 W522
- 15474 ENGELHARD, J. Les fermes vellaves. Rustica 21: 136-137. Mar. 14, 1948. 14 R92
- 15475 EVANS, G. W. Suggestions for orderly ranching. N. Mex. Stockman 13(11): 31-32. Nov. 1948. 49 N462
- 15476 FAUSER. Voraussetzungen der ertragssteigerung im bäuerlichen betrieb. Deut. Landw. Gesell. Arb. (n. s.) 1: 53-65. 1947. 18 D48
- 15477 FORGET. L'exploitation familiale. Etincelle Agr. 1947(5/6): 2. (To be cont.) Nov. 22, 1947. 14 Et4  
France.
- 15478 GAINES, J. P., and EFFERSON, J. N. Minor factors affecting profits on sugar cane farms in Louisiana. Sugar B. 27: 52, 59-62. Nov. 15, 1948. 65.9 Am32
- 15479 GOW, P. B. Farming practice on the Hawea Flat. New Zeal. J. Agr. 77: 173-176. Aug. 1948. 23 N48J
- 15480 GRANDIN, P. L'exploitation familiale en France. Foyer Rur. [Montreal] 8(1): 6. Oct. 1948. 7 F83
- 15481 GRANDITSKII, P. A. Method of collective farm planning. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 238-242. 1948. 20 M857
- 15482 GROOTJANS, A. Quelle est la meilleure forme juridique d'une entreprise familiale. Vivres 3 (10): 19-21. Oct. 1948. 389.8 V832
- 15483 GUSEV, I., and SERGEEV, P. Results of an effort to increase productivity in a district. (In Russian.) Sotsialist. Sel'sk. Khoz. 19(5): 21-30. May 1948. 281.8 So73  
Chiefly collective farm management in Novo-Annenskii District, in Stalingrad Region.
- 15484 HARDIN, C. M. Current proposals for the organization of conservation and land-use programs in agriculture, the United States. J. Farm Econ. 30: 619-644. Nov. 1948. 280.8 J822
- 15485 HARRIS, T. W. Trust farming. Tarheel Banker 27(5): 13-14. Nov. 1948. 284.8 T17
- 15486 HARVEY, G. R. The Georgia Better Farms Plan. Hoosier Farmer 33(11): 36. Nov. 1948. 280.82 H76
- 15487 HAUCK, H. Wesen und bedeutung der methode Gruschwitz. Saat u. Ernte 3(8): 6. Aug. 1948. 18 Sa12  
Farm management.
- 15488 HEADY, E. O. The economics of rotations with farm and production policy applications. J. Farm Econ. 30: 645-664. Nov. 1948. 280.8 J822
- 15489 HEISIG, C. P. Integration of the research program of the division of farm management and costs and the state colleges. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 49-50. 1948. 4 C82



- 15490 HSIUNG, P. H. Socialization of agriculture in Soviet Russia. (In Chinese.) Monthly Farmers' Bank China 9(1): 1-5. Jan. 1948. 281.9 F225M  
English summary.
- 15491 HUFF, W. H. The national land policy. Land Let. 8: 6. Aug. 1948. 279.8 L22L
- 15492 HUMPHREYS, L. R. Father and son as partners. Utah Farmer 68(8): 8. Nov. 25, 1948. 6 D45
- 15493 HUNTER, H. R. Don't neglect office routine. Mod. Poultry Keeping 59: 428-429. Oct. 27, 1948. 47.8 Eg3
- 15494 JAMES, H. The nature of public lands. Land Let. 8: 5, 12. Aug. 1948. 279.8 L22L
- 15495 JOHNSON, V. W. Integration of research by the Division of Land Economics and the State colleges. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 54-55. 1948. 4 C82
- 15496 KANSAS. AGRICULTURAL EXPERIMENT STATION. Kansas farm management summary and analysis, 1947. Kansas. Agr. Expt. Sta. Agr. Econ. Rpt. 34, unpag. 1948? 281.9 K132
- 15497 KING, D. F. More profit per hen in farm flocks. This Month in Rural Ala. 1948: 6. Nov. 4, 1948. 6 T34  
Poultry farm management.
- 15498 KING, J. Floyd County [Texas] farms show how diversification pays. Southwest. Crop & Stock 2(11): 14-15. Nov. 1948. 6 So8942
- 15499 KNIGHT, E. B. Two jobs and security. Agr. Ed. Mag. 21: 138, 142. Dec. 1948. 275.8 Ag8  
Part-time farming in Tennessee.
- 15500 KRAMER. Aktuelle probleme des acker- und pflanzenbaues. Deut. Landw. Gesell. Arb. (n. s.) 1: 65-79. 1947. 18 D48
- 15501 KRONRAFF, K. Einrichtungseinzelheiten des Grazer milchhofes. Österr. Milch- u. Fettwirtschaft 3: 181-184. Aug. 1948. 44.8 Os72
- 15502 LEITCH, C. C. Potatoes and wheat the major cash crops. New Zeal. J. Agr. 77: 237, 239-240. Sept. 1948. 23 N48J  
Farming practices on a typical farm in New Zealand.
- 15503 LEONARD, T. How to start with 200 birds. Poultry Farmer [London] 119(3094): 18. Oct. 22, 1948. 47.8 F312
- 15504 LIERMAN. Points de vue des ingénieurs agronomes sur la pratique agricole. (Sum.) Cahiers des Ingén. Agron. 2(20): 21-22. Feb. 1947. 14 C112  
Text in French and English.
- 15505 LINDSTRÖM, T. Milk production economy. (In Swedish.) Ladugården 1948: 182-184. Sept. 1948. 44.8 L12  
Farm management.
- 15506 MACIAS, P. E. Una granja norteamericana es un ejemplo del trabajo creador. Manabí. Consorcio de Cent. Agr. B. 55: 5-10. July/Sept. 1948. 9.5 M31
- 15507 MACKENZIE, K. J. Farm planning. Rhodesia, North. Min. Agr. and Lands. B. 1442, 6 p. May/June 1948. 24 R345  
Also in Rhodesia Agr. J. 45: 203-207. May/June 1948. 24 R34
- 15508 MCLANE, P. V. Problems of high country farming in New Zealand. Overseas Rpt. Agr. Devlpmt. 4, 2 p. Apr. 1948. 281.9 C16420
- 15509 MACRAE, K. More milk from fewer cows; Scottish farm was "white elephant" until new methods were adopted. Dairy Farmer [Ipswich] 21(11): 35. Nov. 1948. 44.8 D1414
- 15510 MEADE, A. R. A share-the-profit plan. Farm & Ranch 67(11): 42, 43. Nov. 1948. 6 T31
- 15511 MERCER, W. B. War-time farming in Cheshire. Brit. Agr. B. 1: 8-12. Spring 1948. 10 B776
- 15512 MISSISSIPPI. STATE LAND COMMISSIONER. Biennial report, July 1, 1945, to June 30, 1947. n. p., 1947? 252.45 L22  
Lieut. Land Commission, joint author.
- 15513 NEW YORK HERALD TRIBUNE FORUM. What land policy for America? Part of panel discussion. Natl. Wool Grower 38(11): 7, 38-40. Nov. 1948. 45.8 N21N  
Discussion by C. R. Hope, B. DeVoto, and F. R. Carpenter.
- 15514 NILSSON, T. The model farm Yxanshult. (In Swedish.) Växt-Närings-Nytt 4(1): 3-5. 1948. 57.8 V47
- 15515 NODLAND, T. R., POND, G. A., and ADAMS, R. W. Annual report of the farm management service for veterans taking on-the-farm training in southeastern Minnesota 1947. Minn. U. Div. Agr. Econ. Mimeog. Rpt. 172, 29 p. Oct. 1948. 281.9 M66
- 15516 NODLAND, T. R., POND, G. A., and ADAMS, R. W. Annual report of the farm management service for veterans taking on-the-farm training in southwestern Minnesota 1947. Minn. U. Div. Agr. Econ. Mimeog. Rpt. 171, 25 p. Aug. 1948. 281.9 M66
- 15517 OTTLEY, J. F. S. Farming in Japan. Field 192: 463-464. Oct. 23, 1948. 10 F45
- 15518 PADBERG, K. Die bedeutung des betriebsvergleiches in der beratung. Nachr. f. Beratung u. Ausbildung in der Landw. 1(1): 5-6. Sept. 1948. 18 N11  
Germany.
- 15519 PARVIN, D. W. Efficient agriculture in the shortleaf pine area. Miss. Farm Res. [Miss. Sta.] 11(11): 2-6, 8. Nov. 1948. 100 M69M
- 15520 PAWSON, H. C. What is good farming? Manx J. Agr. (n. s.) 3(2): 28-36. Oct. 1948. 10 M312
- 15521 PICKARD, P. W. Part-time farming. Northeast 1948: 24-25. Summer 1948. 284.28 N81
- 15522 PINE, W. H. Measuring the economic productivity of land. J. Farm Econ. 30: 777-783. Nov. 1948. 280.8 J822
- 15523 POMPEI, M. The "first time" and share farming [Italy]. (In Italian.) Gior. di Agr. 58: 299. Oct. 31, 1948. 16 It1G
- 15524 POTAPOV, KH. A leading collective farm in Chuvash ASSR. (In Russian.) Sořsialist. Sel'sk. Khoz. 19(5): 59-61. May 1948. 281.8 So73
- 15525 RUHNKE, G. N. Soil conservation farming. In Conf. on Conserv. in So. Cent. Ontario, 1946. Conserv. in So. Cent. Ontario, p. 41-51. 1948. 279.135 C76
- 15526 SASKATCHEWAN. UNIVERSITY. Guide to farm practice in Saskatchewan; an authoritative and practical handbook on the production problems of Saskatchewan agriculture. Saskatoon, 1948. 177 p. 7 Sa76G  
Saskatchewan Department of Agriculture and the experimental stations, research laboratories and other services of the Dominion Department of Agriculture in Saskatchewan, cooperating.
- 15527 SCARABELLI, F. The "classic share farming" contract and other associational relations in agriculture. (In Italian.) Voce dei Campi 3(22): 2. Aug. 31, 1948. 16 V852
- 15528 SCHEER, C. D., and SLITS, H. A. Horticulture and small holdings. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 481-494. Ref. Aug. 1948. 86 N384  
English summary.
- 15529 SCHJECKELE, R. Role of the family farm in modern society. Bimonthly B. [N. Dak. Sta.] 10(6): 204-209. July/Aug. 1948. 100 N813B
- 15530 SCHRAMM, V. Studies on farm organization. (In Polish.) Roczn. Nauk Rolnicz. i Leřnych 50: 166-196. 1948. 20.5 R59  
English summary.
- 15531 SEGNI, A. Share farming [Italy]. (In Italian.) Gior. di Agr. 57: 67. Mar. 23, 1947. 16 It1G
- 15532 SERPIERI, A. Auditing and metayage. (In Italian.) Gior. di Agr. 57: 1. Jan. 5, 1947. 16 It1G
- 15533 SEVERSON, H. Mississippi dealers prescribe for a cotton sick area. Com. Fert. 77(5): 40-41, 44-46. Nov. 1948. 57.8 C73  
Diversified farming.
- 15534 SHULTIS, A. More and more commercialized operations better and better. Fruit & Veg. Rev. 9(7): 13-14. Oct. 1948. 80 C1224
- 15535 SILVA, S. G. Two alqueires well utilized. (In Portuguese.) Brincar e Aprender 6(27): 31-33. Aug./Dec. 1947. 275.249 B77  
Farming by an agricultural club.
- 15536 SIMPSON, H. T. Production increased through price incentive. Dairy Farmer [Ipswich] 21(9): 20. Sept. 1948. 44.8 D1414  
Dairy farm management.
- 15537 SKIBBE, B. Zur reorganisation der landwirtschaftsberatung in der Ostzone. Deut. Landw. 2: 97-104. July 1948. 18 D485
- 15538 SMITH, A. A. Uncle Sam—land owner extraordinary. West. Livestock J. 27: 35, 40. Nov. 15, 1948. 6 F2278



- 15539 SMITH, T. L. Agricultural systems. (In Portuguese.) Rev. Bras. de Geog. 9: 159-184. Apr./June 1947. 278.8 R32  
Summaries in French, Spanish, Italian, English, German, and Esperanto.
- 15540 SONESSON, N. Economic significance of gardening in agriculture. (In Swedish.) Sveriges Pomol. För. Årsskr. 1947: 5-26. 86 Sv2
- 15541 SOURISSEAU, J. H. La culture des petits biens familiaux. Paysan du Sud-Ouest 3(118): 1. Mar. 22, 1947. 14 P292  
France.
- 15542 STEWART, C. M. Balanced farming for Arkansas subject of banker-farmer meetings. Ark. Banker 32(7): 14-16. Oct. 1948. 284.8 Ar4
- 15543 SUN, C. C. The remapping of provincial areas and the adoption of the rectangular farm system. (In Chinese.) Monthly Farmers' Bank China 9(1): 16-19. Jan. 1948. 281.9 F225M  
English summary.
- 15544 SWEDEN. DOMÄNSTYRELSEN. Crown lands year 1946. Stockholm, 1948. 117 p. 99.9 Sw33  
Table of content also in French.
- 15545 UNION OF SOUTH AFRICA. UNION OFFICE OF CENSUS AND STATISTICS. Native affairs, Chapter IX. Chapter (preprint) from the official year book of the Union of South Africa and of Basutoland, Bechuanaland Protectorate and Swaziland, No. 23--1946. Pretoria, 1947. 48 p. Pretoria, 1947. 270 C332  
Includes land administration.
- 15546 VERHULST, M. P. Canner-grower contracts. Canning Trade 71(20): 9, 21. Dec. 6, 1948. 286.83 T67
- 15547 WACHENFELT, M. VON. A day in Warwickshire. (In Swedish.) Lantmannen 32: 143-144. Feb. 28, 1948. 11 L234  
Description of dairy farm.
- 15548 WALKER, C. Farming in New Zealand; the South Auckland district. New Zeal. J. Agr. 77: 131-135, 137, 247-249, 251-254. Aug.-Sept. 1948. 23 N48J
- 15549 WANG, T. C. The Soviet collective farm system and the possibilities of its application in China. (In Chinese.) J. Agr. Econ. 1(3): 52-57. June 1948. 281.8 J822
- 15550 WHYTE, R. O. The resting break in farming systems. Brit. Agr. B. 1: 13-18. Ref. Spring 1948. 10 B776
- 15551 WILD, L. J. The farmer and the soil. New Zeal. Dairy Exporter 24(3): 4-5. Sept. 1948. 44.8 N484  
Farming methods.
- 15552 ZACHARIAS, C. W. B. Some practical suggestions for the formation of co-operative farms. Madras J. Co-op. 40: 64-67. Aug. 1948. 280.28 M26
- 15553 ZORN, Der wille zum fortschritt. Neue Mitt. f. die Landw. 3: 351. Oct. 25, 1948. 18 N39  
Farming methods.
- Bookkeeping and Records
- 15554 BROWN, E. H. Maintenance of accounting records. IBCA News: 12-13. Oct. 1, 1948. 47.8 IN83  
Bookkeeping for hatcheries.
- 15555 CORDS-PARCHIM, W. Zahlen und masse für den landbaumeister. Berlin, Deutscher Zentralverlag, 1947. 163 p. (Kuratorium für Technik in der Landwirtschaft. Schriften. 2) 30.3 C81
- 15556 LEEDS UNIVERSITY. DEPT. OF AGRICULTURE. ECONOMICS SECT. Farm accounts for management purposes; a Yorkshire farm accountancy study, 1946-47. Leeds U. Farmers' Rpt. 77, 28 p. Aug. 1948. 281.9 L51
- 15557 MATTHIESEN, E. H., and KOFOED, C. A. Farm records. (In Danish.) Tolvmandsbladet 20: 231-243. Nov. 1948. 11 T58
- 15558 NANNESON, L. Results of Swedish farm accounts. XXXIII. The bookkeeping year 1946-1947. (In Swedish.) Sweden. Lantbrukssstyr. Meddel. 343, 109 p. 1948. 11 Sw3
- 15559 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF MARKETING AND AGRICULTURAL ECONOMICS. Keeping farm records. Rhodesia Agr. J. 45: 196-198. May/June 1948. 24 R34
- 15560 PELLAGATTA, G. Some revolutionary concepts of agricultural balances for leasing purposes. (In Italian.) Coop. e Agr. 30(42): 1. (Cont.) Oct. 30, 1948. 16 C78
- 15561 POFFENBERGER, P. R. Simplified bookkeeping for poultrymen. Md. State Poultry Council. Proc. 1948: 34-35. 1948. 47.9 M36P
- 15562 POND, G. A., and NODLAND, T. R. Twenty years of farm records. Minn. U. Agr. Ext. Farm Business Notes 308: 1-2. Sept. 30, 1948. 275.29 M663
- 15563 SCHRAMM, V. The value of the whole property as the basis for the balance-sheet and accounts of a farm. (In Polish.) Roczn. Nauk Rolnicz. i Leśnych 50: 212-250. 1948. 20.5 R59  
English summary.
- 15564 TAYLOR, F. J. Double check on the hens. Country Gent. 118(12): 22, 88, 90-92. Dec. 1948. 6 C833  
Cost records.
- Costs and Returns
- 15565 ADAIR, W. Costs of Scotland's two chief crops; three years data for potatoes and oats. Farming News & North Brit. Agr. 100(48): 3. Nov. 19, 1948. 10 N82
- 15566 ARMES, M. J. Costs and returns from the poultry enterprise. Pa. Farm Econ. 32: 6-8. Sept. 1948. 275.29 P382Pf
- 15567 BAERT, J. Money returns in farming of 1795-1940. (In Dutch.) Landbouwk. Tijdschr. 59: 95-106. Ref. Mar./May 1947. 105.2 Or3  
In Netherlands.
- 15568 BARTON, O. A. Profits in fall eggs. Dakota Farmer 68(22): 8. Nov. 20, 1948. 6 D14
- 15569 BUXTON, M. W. Labor-saving equipment needed to reduce production costs. Eggsaminer 25(11): 2, 11. Nov. 1948. 286.85 Eg32
- 15570 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Citrus production cost and management analysis, San Diego County. Berkeley? 1948? 15 p. 275.29 C12En
- 15571 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Colusa County rice management study, 1947. Berkeley? 1948? 10 p. 275.29 C12En  
Chiefly costs.
- 15572 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. First annual report of the Scott Valley beef management and land utilization study for 1947, including data on the Klamath National Forest. Berkeley? 1948. 10 p. 275.29 C12En  
Chiefly costs.
- 15573 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Fresno County turkey meat study, 1947. Berkeley? 1948. 6 p. 275.29 C12En  
Chiefly costs and returns.
- 15574 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Lemon management study. Santa Barbara, 1948. 13 p. 275.29 C12En  
Chiefly cost records.
- 15575 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 alfalfa seed production study, Imperial County; an analysis of production, yields, income and costs. Berkeley? 1948. 5 p. 275.29 C12En  
Chiefly costs and returns.
- 15576 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 poultry management cost study, Riverside County. Berkeley? 1948. 6 p. 275.29 C12En
- 15577 CARDINALI, Costs of production in agriculture. (In Italian.) Not. Agr. [Mantova] 4(15): 1-2. Apr. 8, 1948. 16 N845
- 15578 CHAMINADE, R. Les prix de revient. Monit. Agr. 1(39): 7. Oct. 10, 1948. 14 M744  
Grapes in France.
- 15579 CHESHIRE, A. R., and BARLOW, F. D., JR. Economic aspects of farm pastures in the Mississippi River Delta cotton area of Louisiana. La. Agr. Expt. Sta. Mimeog. C. 85, 44 p. Sept. 1948. 100 L935
- 15580 COCCO, E. DI. Costs and returns of fixed capital on farms. (In Italian.) Genio Rur. 11: 246-252. Aug. 1948. 281.8 R522
- 15581 CONNELLY, R. G. Dairyman, know your production costs. Va. Dairyman 9(9): 1-2. Oct. 1948. 44.8 V81



- 15582 DINSDALE, D. H., and WINTER, T. Interim report on milk production costs on north country farms winter 1947-48. *King's Col. Farm Econ. Br. Rpt. M.27*, 6 p. July 1948. 281.3449 K61R
- 15583 DOUMENG, J. Le prix de revient entraîne les prix différentiels. *Paysan du Sud-Ouest* 3(115): 1. (Cont.) Mar. 1, 1947. 14 P292
- 15584 ELBEL, F. Ist hühnerhaltung heute rentabel? *Österr. Kleintierzüchter* 1948: 387. June 1948. 49 Os7
- 15585 ERICSON, F. L. How to compute profitability of milk production. (In Swedish.) *Lantmannen* 32: 707-709. Oct. 23, 1948. 11 L234
- 15586 FLAWN, L. N. The cash side of cloche cropping. *Smallholder* 80(212): 9. Oct. 22, 1948. 10 Sm1
- 15587 FROSTENSON, G. Cost control in agriculture. (In Swedish.) *Lantmannen* 32: 159-160, 164. Mar. 6, 1948. 11 L234
- 15588 GAINES, J. P., and EFFERSON, J. N. Minor factors affecting profits on sugar cane farms in Louisiana. *La. Rur. Econ.* 10(4): 3, 7-8. Nov. 1948. 281.8 L93
- 15589 GHENT. LANDBOUWHOGESCHOOL. RIJKS-STATION VOOR LANDBOUWECONOMIE. Opzoekingen aangaande de rendabiliteit van de landbouw, boekjaar 1946-1947, 118 bedrijven [Research on profits from agriculture, fiscal year 1946-1947, 118 farms], by G. Baptist, F. Derwael, and L. Bockstaele. Gent, 1948. 297 p. 281.9 G342
- 15590 GOODSSELL, W. D. Farm costs and returns, 1945-47, commercial family-operated farms in 6 major farming regions. *U. S. Bur. Agr. Econ. F. M.* 70, 18 p. Sept. 1948. 1.941 L6F22
- 15591 GOODSSELL, W. D. 1949 cost outlook; cost load to stay heavy. *Agr. Situation* 32(11): 5. Nov. 1948. 1 Ec7Ag
- 15592 HANSEN, J. Economic observations on the production and profitability of small holdings. (In Danish.) *Tidsskr. for Landøkonomi* 1948: 469-479. Oct. 1948. 11 T43
- 15593 HENRIKSSON, A. Profitability of livestock raising. (In Swedish.) *Ladugården* 1948: 8, 10. Jan. 1948. 44.8 L12
- 15594 HUANG, S. C. An analysis of the law of diminishing returns. (In Chinese.) *J. Agr. Econ.* 1(3): 30-43. June 1948. 281.8 J822
- 15595 HUNI, A. Die produktionskosten im weinbau. *Schweiz. Z. f. Obst- u. Weinbau* 57: 168-171. (To be cont.) May 8, 1948. 80 Sch9
- 15596 JONES, D. Ontario feed manufacturers study question of costs. *Milling & Feed* 29(12): 16, 23. Dec. 1948. 298.8 C162
- 15597 LEEDS UNIVERSITY. DEPT. OF AGRICULTURE. ECONOMICS SECT. Winter milk production costs in Yorkshire 1947/48. *Leeds U. Farmers' Rpt.* 78, 10 p. Aug. 1948. 281.9 L51
- 15598 LEVIE, E. L. Grain versus dairy products. (In Dutch.) *Landbouwk. Tijdschr. [Wageningen]* 60: 273-283. July 1948. 105.2 Or3  
English summary.  
Profit.
- 15599 MANGOLD, E. Über die wirtschaftlichkeit grösserer oder kleinerer kühe. *Tierzucht* 2: 34-35. Mar. 1948. 49 T443
- 15600 MARX, H. J. Sind grössere oder kleinere kühe wirtschaftlicher? *Tierzucht* 2: 33-34. Mar. 1948. 49 T443
- 15601 MORRIS, S. T., and BRADBURN, S. A. Costs and returns of barley growing in three areas of Devon and Cornwall, crop year 1947. *Bristol. U. Dept. Econ. Farmers' Rpt.* 54, 18 p. Sept. 1948. 281.9 Se1
- 15602 MUELLER, A. G., REISS, F. J., and CUNNINGHAM, J. B. Summary of farm business records on 2,519 farms in Illinois for 1947. *Ill. Farm Econ.* 159/160: 701-729. Aug./Sept. 1948. 275.28 IL5
- 15603 OXFORD UNIVERSITY. AGRICULTURAL ECONOMICS RESEARCH INSTITUTE. Milk investigation scheme; costs of milk production in England and Wales; interim report No. 9, October 1st, 1942 to September 30th, 1943 (with cost data for winter period October 1st, 1943 to March 31st, 1944). Oxford, 1948. 43 p. 281.344 Ox2M
- 15604 PHILLIPS, J. R., and MACLENNAN, J. A. Report on costs of milk production for the year ended 30th September 1947. *Edinb. and East Scot. Col. Agr. B.* 13, 30 p. July 1948. 103 Ed4E
- 15605 SCARSETH, G. D., and COOK, H. L. High production levels is: your chance for profit. *Pacemaker* 6(19): 2-3. Oct. 1, 1948. 280.28 P113  
Costs and returns.
- 15606 SMITH, J. B. Raising broilers for profit. *Farmer's Mag.* 54(11): 68, 69. Nov. 1948. 7 C165  
Costs and returns.
- 15607 SOCIEDAD RURAL ARGENTINA. Estudia la S. Rural Argentina la tipificación de los porcinos; establece las bases para determinar el costo de producción del cerdo. *Esnea* 35(1501): 1, 5. Oct. 9, 1948. 44.8 Es5
- 15608 SMITS, C. On the remuneration in agriculture. (In Dutch.) *Nederlandsch. Heidemaatsch. Tijdschr.* 59: 395-400. Oct. 1948. 12 N282
- 15609 TEMPERTON, H. Studies of the post-war costs of poultry production. 3. The costs of egg production in laying battery cages. *Harper-Adams Util. Poultry J. (n. s.)* 33: 46-53. Ref. July 1948. 47.8 P8612
- 15610 THOMSEN, F. L. Increasing returns. *Calif. Citrog.* 34: 48. Nov. 1948. 80 C125
- 15611 WHATLEY, T. J. Production practices, costs, and returns from corn, Haywood County, Tennessee, 1947. *Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog.* 238, 24 p. Oct. 25, 1948. 173.2 W89C0
- 15612 WILCOX, W. W., and RAUCHENSTEIN, E. The effect of size of herd on milk production costs. *J. Farm Econ.* 30: 713-723. Nov. 1948. 280.8 J822

#### Land Settlement and Colonization

- 15613 BEGIN, S. Colons et colonisation. *Paysana* 2(5/6): 10-11, 14-15. July/Aug. 1948. 7 P29
- 15614 BRASACCHIO, G. Land concessions in Sicily. (In Italian.) *Gior. di Agr.* 57: 62. Mar. 16, 1947.
- 15615 CRUZ, G. E. S. Irrigation. (In Portuguese.) *Portugal. Agência Geral das Colón. B. Geral das Colón.* 23(260): 54-67. Feb. 1947. 264 Ag3  
As a factor in land settlement.
- 15616 FRIEDRICH, K. Siedlung ohne aufschub. In *Könemann, E. Siedlung als aufgabe der inneren Kolonisation*, p. 1-9. Lüneburg, Ger., 1947. 282.2 K832
- 15617 MUÑOZ GRANDES, F. La ley de colonización interior y las cooperativas del campo. *Cooperación* 7(74): 10-11. Apr. 1948. 280.28 C7875
- 15618 NEIVA, A. H. Geographic aspects of immigration and colonization in Brazil. (In Portuguese.) *Rev. Bras. de Geog.* 9: 249-270. Apr./June 1947. 278.8 R32  
Summaries in French, Spanish, Italian, English, German, and Esperanto.
- 15619 SWAZILAND. DEPT. OF NATIVE LAND SETTLEMENT. Annual report for the year ending 31st December, 1947. n. p., 1948. 8 p. 282.29 Sw2

#### Land Tenure

- 15620 ADAIR, W. Scotland's low claims on land fund equals only 0.8 per cent. of total. *Farming News & North Brit. Agr.* 100(49): 2. Nov. 26, 1948. 10 N82  
Compensation for loss of development rights.
- 15621 ALBERTINI, F. Agrarian reform in the province of Novara [Italy]. (In Italian.) *Coop. e Agr.* 30(38): 1. Oct. 2, 1948. 16 C78
- 15622 ALEMANY SOLÁ, A. Renta del contrato de arriendo de finca rústica. *Cám. Ofic. Sind. Agr. de Barcelona.* B. 3: 179-180. July 1948. 15 C14
- 15623 ANTÓN CANO, E. Contratos de aparcería. *Murcia, Spain. Cám. Ofic. Agr. B.* 71/72: 6-8. Sept./Oct. 1948. 16 M93
- 15624 ANTONELLI, G. The share farming situation: extension of quit-notices [Italy]? (In Italian.) *Gior. di Agr.* 57: 34. Feb. 9, 1947. 16 It1G
- 15625 BACHMAN, K. L., and others. Appraisal of the economic classification of farms. *J. Farm Econ.* 30: 680-702. Nov. 1948. 280.8 J822  
J. C. Ellickson, W. D. Goodsell, and R. Hurley, joint authors.
- 15626 BANDINI, M. Contracts and agrarian reform [Italy]. (In Italian.) *Gior. di Agr.* 57: 7. Jan. 12, 1947. 16 It1G
- 15627 BARLOW, F. S. From tenant to owner. *Hoard's Dairyman* 93: 891, 903, 911. Dec. 10, 1948. 44.8 H65
- 15628 BATES, R. How can owners and tenants agree? *Prairie Farmer, Gen. Ed.* 120(23): 1, 14, 15. Nov. 6 1948. 6 P833



- 15629 BATES, R. How landlords and tenants can work together; what is the fairest kind of lease? *Prairie Farmer*, Gen. Ed. 120(24): 20, 21. Nov. 20, 1948. 6 P883
- 15630 BECATTINI, V. Agrarian reform and property. (In Italian.) *Terra* [Firenze] 59(39): 1-2. Sept. 26, 1948. 16 T274
- 15631 BONOMI, P. Premises and purposes of the agrarian reform [Italy]. (In Italian.) *Coltivatore* 4(17): 1. Sept. 1, 1948. 16 C722  
Also in *Not. Agr.* [Mantova] 4(38): 1. Sept. 17, 1948. 16 N845
- 15632 BORNA, Z. The size of farms according to American conception. (In Polish.) *Rocz. Nauk Rolnicz.* i *Leśnych* 50: 323-327. 1948. 20.5 R59  
English summary.
- 15633 CANTARELLI, M. Lines of agrarian reform in Parma Province. (In Italian.) *Avvenire Agr.* 5: 197-220. Sept. 1948. 16 Av9
- 15634 CASALINI, M. Cooperation and land grants [Italy]. (In Italian.) *Gior. di Agr.* 57: 8. Jan. 12, 1947. 16 It1G
- 15635 CIANI, A. Aspects of the [agrarian] reform; accounts which do not balance. (In Italian.) *Gior. di Agr.* 58: 308. Nov. 7, 1948. 16 It1G
- 15636 CROUZATIER, L. La réglementation actuelle sur le prix des fermages [France]. *Vie Agr.* 3(104): 3. Nov. 20/27, 1947. 14 V673
- 15637 DEKKER, H. Small farms. (In Dutch.) *Boerengemeenschap* 5(11): 6-7. July 10, 1948. 12 B634
- 15638 DEVOTO, L. The new laws on fair rent. III. *Informatore Agr.* 4(17): 1. Oct. 1, 1948. 281.8 In32 Italy.
- 15639 DEVOTO, L. Scheme of the decree for the regulation of agricultural contracts [Italy]. (In Italian.) *Informatore Agr.* 4(20): 1-2. Nov. 15, 1948. 281.8 In32
- 15640 AN ECONOMIC classification of Fifth District farms. *Fed. Reserve Bank Richmond*. Monthly Rev. 1948: 3-9. Sept. 30, 1948. 284.8 F31R
- 15641 EDELMAN, C. H. Toponomy and land subdivision. (In Dutch.) *Landbouwk. Tijdschr.* 59: 85-94. Mar./May 1947. 105.2 Or3  
Netherlands.
- 15642 FIECHTNER, H. Bodenreform und lastenausgleich. *Wirtsch. Ztg.* 3(44): 5. Oct. 23, 1948. 280.8 W742  
Germany.
- 15643 FIPPIN, W. H., and INMAN, B. T. Individuals own 87 percent of farm land, survey shows. *Agr. Situation* 32(12): 5. Dec. 1948. 1 Ec7Ag
- 15644 FRANCIOSA, L. Land grants and agricultural cooperatives [Italy]. (In Italian.) *Gior. di Agr.* 57: 14. Jan. 19, 1947. 16 It1G
- 15645 FROMONT, P. Le contrat d'association dans la gestion d'un domaine agricole et ses nouvelles formes. *Acad. d'Agr. de France. Compt. Rend.* 34: 796-799. June 30/July 7, 1948. 14 P215Bc
- 15646 FU, Y. H. One year of work for the settlement of land problems in the appeasement districts. (In Chinese.) *Monthly Farmers' Bank China* 8(1): 6-15. Jan. 1948. 281.9 F225M  
English summary.  
Land reform.
- 15647 GENTILE, Q. Proposed law on agricultural contracts. (In Italian.) *Mezzogiorno Agr.* 4(44): 1-2. Nov. 15, 1948. 16 M57
- 15648 GÖZ, H. Umrechnung der pachtpreise für landwirtschaftliche grundstücke für das pachtjahr 1947/48. *Württemberg. Wchnbl. f. Landw.* 115: 286. Oct. 16, 1948. 18 W96
- 15649 GUALAZZI, A. The new laws on agricultural leases. (In Italian.) *Agricoltore* [Milano] 29(38): 1. Sept. 18, 1948. 16 Ag862
- 15650 GUILBAUD, J. Le prix des fermages en 1948. *Terre* 199: 3. Aug. 5/11, 1948. 281.8 T27  
France.
- 15651 HEADINGTON, R. C. Transferring the farm from one generation to the next - Ohio. *Ohio. U. Dept. Rural Econ. Mimeog.* B. 204, 12 p. Nov. 1948. 281.9 Oh32
- 15652 HERAN, J. Le remembrement des terres. *Paysan du Sud-Ouest* 3(115): 1. Mar. 1, 1947. 14 P292
- 15653 HOFFSOMMER, H. Land tenure in the South-western States; a summary of significant findings of the Regional Land Tenure Research Project. *Ark. Agr. Expt. Sta. B.* 482, 31 p. Oct. 1948. 100 Ar42
- 15654 HORTON-SMITH, L. G. H. Landlord & Tenant Act, 1927. *Milk Indus.* 29(5): 40-44. Nov. 1948. 44.8 M593
- 15655 HUTTER. Flurbereinigung Edenfeld bei Seekirchen. *Salzburg. Bauer* 3(30): 4-5. July 22, 1948. 19 Sa3
- 15656 JOHNSON, S. E., and BACHMAN, K. L. How many farms—how big? *Agr. Situation* 32(12): 1-4. Dec. 1948. 1 Ec7Ag
- 15657 KLAUS, E. Wem soll die agrarreform dienen? *Landpost* 4(3): 6. Feb. 10, 1948. 18 L2329  
Germany.
- 15658 KOTATKO, J. Land reform in Czechoslovakia. *Prague, Orbis*, 1948. 38 p. 282.177 K84
- 15659 KÜHNER, M. Förderung der flurbereinigung durch ausbau der umlegungsbehörde. *Württemberg. Wchnbl. f. Landw.* 115: 288. Oct. 16, 1948. 18 W96
- 15660 LAMA, E. Distribution and extension of landed property. *Rev. Econ. Cond. Italy* 2: 325-330. Sept. 1948. 280.8 R3236
- 15661 LEVADA, A. Agrarian reform: the movement of Christian democracy observed by a Christian. II. (In Italian.) *Voce dei Campi* 3(18): 2. July 10, 1948. 16 V852  
Italy.
- 15662 LUCA, B. DE. Long-term leases at ground rent and execution of deeds of enfranchisement. (In Italian.) *Gior. di Agr.* 58: 296. Oct. 24, 1948. 16 It1G
- 15663 MARESCALCHI, A. Agrarian reform without revolution. (In Italian.) *Ital. Vinic. ed Agr.* 38: 193-195. Sept. 15, 1948. 95.8 It1
- 15664 MAYRHOFER, W. Erbhöfe nach dem geltenden recht. *Kärntner Bauer* 98: 229-230. July 15, 1948. 19 K14
- 15665 MAYRHOFER, W. Die heute geltende gesetzliche erbfolge für bäuerliche anwesen. *Kärntner Bauer* 98: 303-304. Sept. 15, 1948. 19 K14
- 15666 MAZZOCCHI-ALEMANNI, N. The "village" and agrarian reform. (In Italian.) *Ital. Agr.* 85: 548-556. Oct. 1948. 16 It1
- 15667 MEDICI, G. The agrarian reform seen locally from the Piedmont and Lombardy mountain to the plain. II. (In Italian.) *Gior. di Agr.* 58: 270. Oct. 3, 1948. 16 It1G
- 15668 MITCHELL, C. Korean farm tenant purchase program. *Land Econ.* 24: 402-405. Nov. 1948. 282.8 J82
- 15669 NAZZANI, F. Aspects of the reform in agriculture [Italy]. (In Italian.) *Voce dei Campi* 3(25): 1. Sept. 30, 1948. 16 V852
- 15670 NOLLEAU, J. Le statut du fermage: le droit de préemption du fermier. *Forêt Franç.* 128: 1. Sept. 1948. 99.8 F7682
- 15671 OLIVEIRA, J. G. DE. The economic conquest of Brazilian latifundia. (In Portuguese.) *Rev. Agron.* 12: 100-101. Apr./June 1948. 9.2 R325
- 15672 PAGANI. Agrarian reform and the workers. (In Italian.) *Voce dei Campi* 3(18): 1. July 10, 1948. 16 V852  
Italy.
- 15673 PALLASTRELLI, G. Finish and not with blows. (In Italian.) *Gior. di Agr.* 58: 291-292. Oct. 24, 1948. 16 It1G  
The agrarian reform in Italy.
- 15674 PEÑARANDA ARENAS, F. Arrendatarios y aparceros. *Agr. Trop.* 4(10): 21-23. Oct. 15, 1948. 26 Ag8  
Colombia.
- 15675 PICÓ, R. Land tenure symposium contains valuable material. *Caribbean Comn. Monthly B.* 2: 89. Nov. 1948. 280.9 C19
- 15676 POLLER, H. Flurbereinigung als aufgabe [Germany]! *Fortschritt in der Landw.* 1: 39-40. Aug. 28, 1948. 18 F773
- 15677 PRESTIANNI, N. Land grants and agricultural cooperatives [Italy]. (In Italian.) *Gior. di Agr.* 57: 1. Jan. 5, 1947. 16 It1G



15678 RIO GRANDE DO SUL, BRASIL (STATE). DEPARTAMENTO ESTADUAL DE ESTATÍSTICA. Aspectos demográficos, econômicos e sociais do Rio Grande do Sul, vistos através da estatística. Porto Alegre, Livraria do Globo, 1947. 69 p. 255.3 R475As

Discusses land tenure and agriculture.

15679 RUSSEL, B., and FRIGGENS, P. The trouble with tenants—and landlords. *Farm J.* 72(12): 20-21, 123. Dec. 1948. 6 F2212

15680 RUSSELL, J. S. Court holds farm tenant liable in loss of topsoil. *Iowa Farm & Home Register* 1948: 11-H. Nov. 7, 1948. 6 Io94

In Carroll County, Iowa.

15681 SCHIETHART, L. J. Transfer of farmland. (In Dutch.) *Nederlandsch. Heidemaatsch. Tijdschr.* 59: 400-403. Oct. 1948. 12 N282

Land tenure, farm size and land prices.

15682 SCOLARI, S., and SCOLARI, G. Agricultural rents for the 1947-48 season. (In Italian.) *Coop. e Agr.* 30(36): 1. (Cont.) Sept. 18, 1948. 16 C78

Italy.

15683 SERPIERI, A. Land monopoly in Tuscany? (In Italian.) *Gior. di Agr.* 57: 73. Mar. 30, 1947. 16 It1G

15684 STRUNZ, H. Was zahlt der Bauer auf Grund der Vermögensabgabengesetze. *Landwirtschaft* 1948: 215-219. Aug. 21, 1948. 19 L235

Austria.

15685 SYMPOSIUM on agrarian reforms introduced by provincial government and states. *Indian J. Agr. Econ.* 3(1): 119-139. Apr. 1948. 281.8 In2

By Sir M. B. Nanavati, K. C. Ramakrishnan, M. Venkatarangayya, R. P. Padhi, P. K. Ray, G. D. Agarwal, C. J. R. Naidu, and S. K. Muranjan.

15686 THARP, M. M. A reappraisal of farm tenure research. *Land Econ.* 24: 315-330. Nov. 1948. 282.8 J82

15687 TRUZZI, N. Reform of agricultural contracts [Italy]. (In Italian.) *Not. Agr. [Mantova]* 4(45): 1. Nov. 5, 1948. 16 N845

15688 ULLOA SANTAMARIA, A. G. Anotaciones para la reforma agraria en Venezuela. Caracas, 1947. 1. e., 1948. 93 p. 282.169 UL4

15689 WILLETS, M. E. Farmers like company—they don't like invaders. *Mo. Conserv.* 9(10): 4-5, 14. Oct. 1948. 279.8 M69

The farmer-sportsman problem.

15690 YVOIRIE, D'. Les nouveaux prix des loyers. *Rustica* 21: 734. (To be cont.) Oct. 10, 1948. 14 R92

#### Land Utilization

15691 BREIDING, G. H. Some observations on land use and the game supply. *W. Va. Conserv.* 12(8): 12-13, 17. Nov. 1948. 279.8 W524

15692 BRITISH INFORMATION SERVICES. A bibliography of housing and town and country planning in Britain. *Brit. Inform. Serv. I. D.* 584-S, 3 p. Apr. 1948. 280.9 B772

15693 CRESWICK, W. J. P. A land use survey on the Etobicoke Creek. In *Conf. on Conserv. in So. Cent. Ontario, 1946. Conserv. in So. Cent. Ontario*, p. 52-60. 1948. 279.135 C76

15694 KIVINEN, E. Investigations on the utilization of marshland in Finland. (In Swedish.) *Norsk Myrskap. Meddel.* 46(1): 1-9. Feb. 1948. 11 N813

15695 MARSCHNER, F. J. Land use changes lack drama of early days but still important. *Agr. Situation* 32(12): 9-10. Dec. 1948. 1 Ec7Ag

15696 MORETTI, A. New developments for the utilization of mudbank lands. (In Italian.) *Not. Agr. [Mantova]* 4(46): 1. Nov. 12, 1948. 16 N845

15697 OXENHAM, J. R. The reclamation of derelict land. *Town & Country Planning* 16: 156-161. Autumn 1948. 98.58 T66

Great Britain.

15698 ROMANINI, A. We should seek to make better use of our land. (In Italian.) *Avvenire Agr.* 56: 151-153. July 1948. 16 Av9

15699 SALTER, R. M. The national land use and conservation policy. Washington? *U. S. Bur. Plant Indus., Soils, and Agr. Engin.*, 1947. 11 p. 1.965 A2Sa3

15700 SIMONINI, A. Rural urbanistics. IV. (In Italian.) *Genio Rur.* 11: 253-268. Aug. 1948. 281.8 R522

Town planning in rural areas.

15701 SKINNER, A. F. Land utilisation and conservation. *Queensland Agr. J.* 67: 5-7. July 1948. 23 Q33

#### Land Values and Valuation

15702 DU PLESSIS, C. V. H. Analysis of the high prices paid for land in the Transvaal. II. (In Afrikaans.) *Landbouweekblad* 30(1521): 39-40. Sept. 1, 1948. 24 L232

15703 HEDGE, A. M. Our stake in land prices. *Soil Conserv.* 14: 106-107. Dec. 1948. 1.6 So3S

15704 MEDICI, G. Problems of appraisal in Italy. In *Italy. Istituto Nazionale di Economia Agraria. The situation of agricultural economics in Italy*, p. 27-35. Roma, 1948. 281.176 It12

15705 SCOTT, W. E. Land values and the guaranteed price. *New Zeal. Dairy Exporter* 24(3): 32-36, 41. Sept. 1948. 44.8 N484

15706 SOUTHERN, J. H., and MOTHERAL, J. R. Texas farm and ranch land prices, 1946-47. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1135, 2 p. Oct. 12, 1948. 100 T31P

15707 STEWART, C. E., and ENGELKING, R. The land market in North Dakota. *Bimonthly B. [N. Dak. Sta.]* 10(6): 200-203. July/Aug. 1948. 100 N813B

#### POPULATION

15708 GIODA, A. Imposition of labor and rural exodus. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 83: 143-144. Aug. 15/31, 1948. 16 C72

15709 GUPTA, R. G. Population pressure in the Konkan. *Indian J. Agr. Econ.* 3(1): 90-101. Apr. 1948. 281.8 In2

15710 HILL, G. W. Population. *Community Serv. News* 6: 144-145. Nov./Dec. 1948. 281.28 C73

Rural exodus in Wisconsin.

15711 IYENGAR, D. K. Pressure of population on agriculture and the problems of its removal. *Indian J. Agr. Econ.* 3(1): 101-105. Apr. 1948. 281.8 In2

15712 MANGUS, A. R. Divorce trends in Ohio 1939-1947 in relation to mental health. *Ohio U. Dept. Rural Econ. Mimeog. B.* 203, 22 p. Sept. 1948. 281.9 Oh32

15713 MORANDL, L. Let us return to the land. (In Italian.) *Gaz. Agr. [Parma]* 2(41): 1-2. Oct. 16, 1948. 16 G254

15714 MORGAN, G. Present birth rates and long-time trends. *Community Serv. News* 6: 146-148. Nov./Dec. 1948. 281.28 C73

Rural.

15715 NAG, D. G. Pressure of population on agriculture and the problem of its removal in the Central Provinces and Berar. *Indian J. Agr. Econ.* 3(1): 84-90. Apr. 1948. 281.8 In2

15716 OWEN, W. F. The drift to the cities. Is it a bad thing? *Agr. Gaz. N. S. Wales* 59: 403-406. Aug. 1948. 23 N472

15717 OYLER, M. D. Neighborhood standing and population changes in Johnson and Robertson Counties, Kentucky. *Ky. Agr. Expt. Sta. B.* 523, 48 p. Aug. 1948. 100 K41

15718 SAYANNA, V. V. Pressure of population on agriculture and the problem of its removal. *Indian J. Agr. Econ.* 3(1): 74-83. Apr. 1948. 281.8 In2

15719 SERPIERI, A. Emigration. (In Italian.) *Gior. di Agr.* 57: 43. Feb. 23, 1947. 16 It1G

Discusses agricultural population in Italy.

15720 TIRUMALAI, S. Demographic pressure on agriculture in Madras. *Indian J. Agr. Econ.* 3(1): 68-74. Apr. 1948. 281.8 In2

15721 TOLLEY, H. R. Population and food supply. *Chron. Bot.* 11: 217-224. Summer 1948. 450 C46

15722 WU, W. H. A comparative study in basic combinations of Chinese rural population. (In Chinese.) *J. Agr. Econ.* 1(3): 44-51. June 1948. 281.8 J822

#### RURAL SOCIAL ORGANIZATION

15723 AMORIM, C. G. DE. Social service and coffee. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(336): 20-24. Sept. 1948. 9.2 B733

15724 BENSON, C. W. R. Family organization and disorganization in Virginia. *Va. U. News Let.* 25(3): 1. Nov. 1, 1948. 280.9 V815

Rural families discussed.



- 15725 COLT, S. Farming in Cornwall. Cornell Countryman 46(2): 6, 13. Nov. 1948. 6 C81  
English farm life.
- 15726 COWGILL, L. Rural development in Mexico. Allahabad Farmer 22: 296-304. Mar. 1948. 22 AL5
- 15727 HOEKSTRA, P. Bloemendaal, proeve ener streekgeschiedenis [Bloemendaal, sample of a district history]. Wormerveer, Meijer, 1947. 367 p. 277.172 H67  
Academisch proefschrift—Amsterdam.
- 15728 HYNES, E. Of soil and men. Commonweal 49: 120-121. Nov. 12, 1948. 280.8 C735  
Rural literature.
- 15729 JACKSON, E. T. Life on an English farm. Farm & Ranch 67(12): 42. Dec. 1948. 6 T31
- 15730 KEITHAHN, R. R. The Christian works in a free rural India. Christian Rur. Fellowship B. 135, 5 p. Sept. 1948. 281.29 C46
- 15731 LANGSETH, R. Norwegian farm life. Farmer [St. Paul], Dak. Ed. 66(18): 26, 27, 52. Sept. 18, 1948. 6 F2211D
- 15732 LEFEUVRE, R. Un exemple de service social rural. Cahiers des Ingén. Agron. 2(23/26): 9-13. May/Aug. 1947. 14 C112
- 15733 MICHAELSSON, G. Life and living on a Swedish Argentine estancia. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(51/52): 9-10. Dec. 20, 1947. 11 J762
- 15734 ÖRJANGÅRD, S. Rural cultural problems. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 18(3): 5. Jan. 17, 1948. 11 J762
- 15735 RAMIREZ DUEÑAS, V. Servicio social rural; labor en las misiones sociales o culturales. Ecuador. Min. de Previsión Social. Previsión Social 21: 48-55. Jan./May 1948. 281.8 Ec9
- 15736 RIECKEN, H. W., JR., and WHETTEN, N. L. Rural social organization in Litchfield County, Connecticut. Conn. (Storrs) Agr. Expt. Sta. B. 261, 138 p. May 1948. 100 C76S
- 15737 TAYLOR, C. C. Integration of research by the division of farm population and rural life and the state colleges. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 60. 1948. 4 C82
- 15738 WHITFIELD, A. Modern farm life goes streamline. Ala. Farmer 27(2): 4. Nov. 1948. 276.8 AL1
- Human Ecology**
- 15739 BAILEY, F. Community service pays off! Natl. Grange Monthly 45(12): 3-4. Dec. 1948. 6 N215  
Grange Community Service Contest.
- 15740 DOOLE, L. E. A night with the neighbors; in Gage County, the District 41 schoolhouse is now a community center for monthly get-togethers. Nebr. Farmer 90(22): 1, 7. Nov. 20, 1948. 6 N27
- 15741 GARDINER, F. G. Regional planning. In Conf. on Conserv. in So. Cent. Ontario, 1946. Conserv. in So. Cent. Ontario, p. 96-107. 1948. 279.135 C76
- 15742 KÖNEMANN, E. Hof, mensch und wirtschaft—als biologische einheit. In Könemann, E. Siedlung als aufgabe der inneren Kolonisation, p. 10-13. Lüneburg, Ger., 1947. 282.2 K832
- 15743 WIATR, S. The village Stróże, District Gorlice. (In Polish.) Roczn. Nauk Rolnicz. i Leśnych 50: 99-149. Ref. 1948. 20.5 R59  
English summary.
- Institutions**
- 15744 AGARWAL, G. D. Problem of village administration in United Provinces including the study of village panchayats. Indian J. Agr. Econ. 3(1): 109-113. Apr. 1948. 281.8 In2
- 15745 ALBERTA. UNIVERSITY. DEPT. OF EXTENSION. Annual report on extension activities of the University of Alberta for the year ending March 31st, 1948. Edmonton, 1948. 32 p. 276.4 AL12
- 15746 ALLRED, C. E. What research in rural health can contribute to better living. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 43-45. 1948. 4 C82
- 15747 ANDERSEN, H. Education of farm youth. (In Danish.) Dansk Landbr. 67: 436-437. Nov. 11, 1948. 280.28 V91
- 15748 ANTHONY, E. L. The contribution of the schools of arts in the training of students in agriculture. (Abs.) Assoc. Land-Grant Col. and U. Proc. 61: 109-110. 1947. 4 As7
- 15749 ARCHER, H. G. A superintendent's impression of on-farm training. Agr. Ed. Mag. 21: 134-135. Dec. 1948. 275.8 Ag8
- 15750 ASPIRAS, L., and ANCHETA, P. M. Partners in agricultural progress. Agr.-Com.-Indus. Life 10(9): 9. Sept. 1948. 25 Ag8  
Work of the Extension Service, Philippine Republic, Province of Isabela.
- 15751 BIBLE, B. L. Developing and completing an effective F. F. A. chapter program of work. Agr. Ed. Mag. 21: 115, 118. Nov. 1948. 275.8 Ag8
- 15752 BIRNBECK, S. Landwirtschaftsberatung und landwirtschaftlicher berufsschullehrer. Neue Mitt. f. die Landw. 3: 405-406. Nov. 15, 1948. 18 N39  
Germany.
- 15753 BOAN, J. Museum on his farm. Nebr. Farmer 90(22): 5, 41. Nov. 20, 1948. 6 N27  
Includes farm exhibits.
- 15754 BOES, H. T. Individualizing instruction in farmer-veteran classes. Agr. Ed. Mag. 21: 136. Dec. 1948. 275.8 Ag8
- 15755 BONAREV, N. Partiinaia organizatsiia kolkhoza "Plamfa" [The Party organization of the Plamfa Collective Farm]. Moskva, Moskovskii Rabochii, 1948. 43 p. 281.179 B642
- 15756 BOYER, J. La poste rurale aux Etats-Unis. Rustica 21: 533. Aug. 1, 1948. 14 R92
- 15757 BRITTAIN, W. H. Trends in agricultural education in Canada. Agr. Inst. Rev. 3: 411-423, 425-426. Nov. 1948. 7 Ag8
- 15758 BROWN, R. G. What Adams State [College] is doing for the G. I. farmer. San Luis Val. Farmer & Stockman 3(3, i. e., 2): 3, 14, 16. Nov. 1948. 6 Su52
- 15759 BULL, A. Ag caravan travels for education; students study agriculture in 5,500 mile travel course. Iowa Agriculturist 47(4): 10-11. Nov. 1948. 6 Io9
- 15760 BYRAM, H. M. Improving agricultural education through study of other fields of vocational education. Agr. Ed. Mag. 21: 130-131. Dec. 1948. 275.8 Ag8
- 15761 CAMPBELL, M. H. Industry and colleges join hands; both groups seek better service to agriculture. Feed Bag 24(11): 15, 78. Nov. 1948. 389.78 F32  
Educational methods.
- 15762 CASPARÉ, MRS. H. E. Women in agriculture. (In Dutch.) Tuinbouw 3: 71-73. Mar. 1948. 80 T815  
Netherlands.
- 15763 CHAPMAN, P. W. Activities of Georgia College of Agriculture. Ga. Dept. Agr. Market B. 32(7): 1, 8. Oct. 20, 1948. 280.39 G292
- 15764 CHAPMAN, P. W. Veterans' farm training is paying dividends. Prog. Farmer, Miss.-Ark.-La. Ed. 63(12): 16, 94. Dec. 1948. 6 So81
- 15765 CLAYTON, C. C. Library methods wake up; the St. Louis County library travels 1,300 miles a week to bring service to 219 farm communities. Successful Farming 46(12): 30, 115. Dec. 1948. 6 Su12
- 15766 COMBREDÉ, G. Agriculteurs, sachez vous défendre! Monit. Agr. 1(42): 6. Oct. 31, 1948. 14 M744  
France.
- 15767 COUPER, G. P. Personal relations. Agr. Ed. Mag. 21: 129, 139. Dec. 1948. 275.8 Ag8
- 15768 CRUMP, O. W. Community activities of Negro rural teachers in Texas, field study No. 1. J. Ed. Res. 42: 127-131. Oct. 1948. 275.8 J824
- 15769 DAILEY, D. L. The North Central School and Experiment Station. Minn. Farm & Home Sci. [Minn. Sta.] 6: 8-9, 11. Nov. 1948. 100 M668  
Branch Agricultural School and Experiment Station of the University of Minnesota.
- 15770 DELIGNIÈRES. L'enseignement agricole et la vulgarisation en U. R. S. S. France. Min. de l'Agr. Rev. Études & Monog. 1948(6): 85-90. June 1948. 281.8 F84
- 15771 DEMBINSKI, J. Landwirtschaftliche betriebslehre. V. Landarbeiter-Archiv 3: 226-228. July/Aug. 1948. 283.8 L23  
Austria.
- 15772 DEYOE, G. P. The place of the source unit in instructional planning for vocational agriculture. Agr. Ed. Mag. 21: 102-103. Nov. 1948. 275.8 Ag8



- 15773 DICKINSON, C. L. Farmers' stake in rural radio network. *G. L. F. Week. Serv. Sched.* 13(20): 1-2. Nov. 15, 1948. 280.28 G113W
- 15774 DOOLE, L. E. Play centers for teen-agers. *Nebr. Farmer* 90(21): 5, 41. Nov. 6, 1948. 6 N27
- 15775 DUCHESNE, F. La section économique du Musée du Congo Belge. *Mus. du Congo Belge. Ann. Sci. Hist. et Econ.* 1, 260 p. Oct. 1947. 515 M97  
Includes vegetable products, apiculture and sericulture.
- 15776 EGYPT. MINISTRY OF EDUCATION. Propagation of rural industries in Egypt. Cairo, Govt. Press, 1948. 4 p. 275.1 Eg9
- 15777 EMERSON, H. Better public health for rural New Jersey. *N. J. Dept. Health. Pub. Health News*: 293-294. Oct. 1948. 449.7 N46P  
Summary of panel discussion.
- 15778 ENDERS, R. Everybody's school. *Capper's Farmer* 59(12): 22, 39. Dec. 1948. 6 M693  
Consolidated schools in Iowa.
- 15779 ERIKSSON, E. Education in vocational agriculture. (In Swedish.) *Lantbrukstidskr. för Dalarna* 1948(1): 2-8. Feb. 1948. 11 L29
- 15780 FELLER, R. Die rechtliche und politische stellung des berner bauern im wandel der zeiten. *Schweiz. Landw. Monatsh.* 26: 281-296. Sept. 20, 1948. 17 Sch93
- 15781 FILENI, E. Two defects in farmers: courage in initiative and trust in science. (In Italian.) *Gior. di Agr.* 57: 10. Jan. 12, 1947. 16 It1G
- 15782 FISHER, R. T. Rural health needs in New Jersey. *N. J. Dept. Health. Pub. Health News*: 291-292. Oct. 1948. 449.7 N46P
- 15783 FOSSE, E. R. Survey of veterans training. *Agr. Ed. Mag.* 21: 113. Nov. 1948. 275.8 Ag8
- 15784 FOUAD I UNIVERSITY. FACULTY OF AGRICULTURE. Agricultural education and extension in Egypt. Cairo, Govt. Press, 1948. 9 p. 275.1 F822
- 15785 FRIESEN, J. Folk schools take root in Manitoba. *Community Serv. News* 6: 140-143. Nov./Dec. 1948. 281.28 C73
- 15786 GANTZ, H. L. Does vocational agriculture help the farmer? *Farm & Ranch* 67(12): 12-13. Dec. 1948. 6 T31
- 15787 GARRIS, E. W. Professional improvement of agricultural teachers. *Agr. Ed. Mag.* 21: 110. Nov. 1948. 275.8 Ag8
- 15788 GIBBONS, W. J. The church and the land. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 163-164. 1948. 4 C82
- 15789 GIP, E. The farmer and the school. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland* 17(42): 5. Oct. 18, 1947. 11 J762
- 15790 GRAHAM, E. H. Training junior farmers in agricultural science. *Austral. Junior Farmer* 1: 3. Oct. 1948. 23 Au782
- 15791 GROVES, D. E. Ohio has its own Boys Village Inc. *Ohio Farmer* 202(11): 3. Dec. 4, 1948. 6 Oh3  
Where boys learn to farm.
- 15792 GULLIVER, G. Landmann und landtag. *Landpost* 4(3): 4-5. Feb. 10, 1948. 18 L2329  
Germany.
- 15793 HARFORD, G. Rural training of ex-service-men on farms. *So. Austral. Dept. Agr. J.* 52: 3-5. Aug. 1948. 23 So84
- 15794 HARRIS, F. S. Who will tend the land? *West. Live Stock* 34(2): 57. Sept. 1948. 49 W523  
Education of young people at land-grant colleges.
- 15795 HARTMANN, E. Ein wort über die land-schule: zum schulbeginn! *Österr. Bauernbündler* 4 (35): 3. Sept. 4, 1948. 19 Os7
- 15796 HAYES, D. J. One teacher, two department combinations. *Agr. Ed. Mag.* 21: 116-117. Nov. 1948. 275.8 Ag8
- 15797 HITT, H. L. How social research can contribute to the improvement of rural health. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 51-52. 1948. 4 C82
- 15798 HOFFER, C. R. Health and health services for Michigan farm families. *Mich. Agr. Expt. Sta. Spec. B.* 352, 54 p. Sept. 1948. 100 M58S
- 15799 HOMEYER, M. Ländliche frauenberufe. *Landpost* 4(10): 4. May 25, 1948. 18 L2329  
Germany.
- 15800 HOWARD, C. G. Promotional methods course in agricultural education. *Agr. Ed. Mag.* 21: 104-105. Nov. 1948. 275.8 Ag8
- 15801 HUMPHREY, C. M. Institutional on-farm training in Missouri. *Agr. Ed. Mag.* 21: 132-133, 140. Dec. 1948. 275.8 Ag8
- 15802 HUNT, G. A. I. C. [Agricultural Institute of Canada] suggests changes in Canadian agriculture and college curriculum. *O. A. C. Rev.* 61: 81-82, 110. Nov. 1948. 276.8 On8
- 15803 INSTITUTO AGRARIO ARGENTINO. Orientación agrícola en la escuela primaria, cursillo de vacaciones dictado especialmente por técnicos y colaboradores de la entidad, para maestros del interior del país. *Inst. Agr. Argentino. Reseñas* 8(59), 82 p. Buenos Aires, 1948. 281.9 B862  
Papers by A. Ringuelet, H. Ratier, and F. Oliver.
- 15804 JOHNSTON, H. L. Cooperation for rural health. *U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt.* 123, 55 p. Ref. Sept. 1948. 166.3 M68
- 15805 JONES, G. E. We still have "live" farmers. *O. A. C. Rev.* 61(1): 34, 36. Oct. 1948. 276.8 On8
- 15806 KANSAS. STATE BOARD OF HEALTH. Provisional report of Kansas 1947 agriculture deaths. n. p., 1948. 9 p. 449.9 K13
- 15807 KAUFMAN, H. F. Religious organization in Kentucky. *Ky. Agr. Expt. Sta. B.* 524, 44 p. Aug. 1948. 100 K41
- 15808 KIRCHER, W. H. New parish house; God's two farms. *Farmer [St. Paul], Gen. Ed.* 66(22): 9. Nov. 20, 1948. 6 F2211  
God's Acre plan expanded.
- 15809 KOCH, H. Was ist demokratie? IV. *Landarbeiter-Archiv* 3: 209-213. July/Aug. 1984. 283.8 L23
- 15810 KOGEKAR, S. V. Village panchayats—some general considerations. *Indian J. Agr. Econ.* 3(1): 106-109. Apr. 1948. 281.8 In2
- 15811 KÖNIG, R. Die wirtschaftliche entwicklung des bernischen bauernstandes im lichte volkswirtschaftlicher grundanschauungen. *Schweiz. Landw. Monatsh.* 26: 297-309. Sept. 20, 1948. 17 Sch93
- 15812 KOZMINSKY, R. Milestones on the way of agricultural education in Israel. (In Hebrew.) *Hassadeh* 28: 498-499. Sept. 1948. 26 H27
- 15813 LABOURIAU, L. G. The problem of rural education in Brazil. (In Portuguese.) *Orientação Econ. e Financeira* 6(66): 17-24. (To be cont.) Aug. 1948. 280.8 Or42
- 15814 LAMUR, F. Una labor pendiente. *Ager* 4: 110. June/July 1948. 33.23 Ag3  
Raising the cultural level of peasants in Spain.
- 15815 LEFEBVRE, A. La maison familiale d'apprentissage rural. *Fiches Rur.* 39, Informations, 4 p. Sept. 1948. 281.8 F44
- 15816 LIMA, J. P. The School 26 of August in Campo Grande. (In Portuguese.) *Brincar e Aprender* 6(27): 6-9. Aug./Dec. 1947. 275.249 B77
- 15817 LOREEN, O. W. A public relations program for instructors of vocational agriculture. *Agr. Ed. Mag.* 21: 128-129. Dec. 1948. 275.8 Ag8
- 15818 LUM, C. W. Annual conference of Hawaii teachers of vocational agriculture. *Agr. Ed. Mag.* 21: 108. Nov. 1948. 275.8 Ag8
- 15819 LUNDIN, P. G. Advanced handcraft club work. *Mich. State Col. Agr. Ext. Club B.* 11C, rev., 166 p. Sept. 1947. 275.29 M58C
- 15820 LYNDE, L. A. Let's talk it over; the extension worker as a counselor. *U. S. D. A. PA-56*, 15 p. Nov. 1948. 1 Ag89Pro
- 15821 MCKENZIE, R. I. Ohio farm people enjoy study groups too. *Farm Forum Guide* 6(5): 4. Dec. 6, 1948. 281.8 F2272
- 15822 MCKINNEY, J. County fairs can be educational. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(12): 15. Dec. 1948. 6 So81
- 15823 MALASSIGNE, J. Quatre fois moins de prestations familiales pour un indépendant. *Foyer Rur. [Paris]* 11(53): 1. Oct. 31, 1948. 14 F83
- 15824 MATHER, W. G. Country churches reflect changes in population and in agriculture. *Sci. Farmer [Pa. Sta.]* 1948: 2-3. Oct. 1948. 100 P383



- 15825 MATHER, W. G. The use of health services in two southern Pennsylvania communities. Pa. Agr. Expt. Sta. B. 504, 38 p. July 1948. 100 P381
- 15826 MELENDEZ, J. R. The importance of outside work. Agr. Ed. Mag. 21: 106-107, 109. Nov. 1948. 275.8 Ag8
- 15827 MELVILLE-NESS, T. R. Parliament of farmers. West. Prod. 26(13, mag.): 1, 3. Nov. 25, 1948. 7 W523  
Educational level of the farmer with particular reference to delegates at meeting of the Saskatchewan Co-operative Producers Limited.
- 15828 MERRIFIELD, J. We use the same air. Natl. Co. Agent 4(11): 14, 34. Nov. 1948. 275.28 N23  
County agents and radio stations.
- 15829 MEYER, W. County facts at their fingertips. Natl. Co. Agent 4(11): 15, 33. Nov. 1948. 275.28 N23
- 15830 MOLINARI, S. Puerto Rico—a potential inter-American teacher training center. Agr. Ed. Mag. 21: 109. Nov. 1948. 275.8 Ag8
- 15831 MOORE, E. G. Our job as interpreters of science. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 63-64. 1948. 4 C82  
Agricultural editors.
- 15832 MYERS, G. Legal knowledge for the housewife. Kans. State Bd. Agr. Bien. Rpt. (1945/46) 35: 106-110. 1948. 2 K13R
- 15833 OYLER, J. B. Broad farm training available in Indiana. Hoosier Farmer 33(11): 39. Nov. 1948. 280.82 H76
- 15834 PADRÓS ARCHS, J. De las heridas y su tratamiento de urgencia en el campo. Cám. Ofic. Sind. Agr. de Barcelona. B. 3: 244-245. Sept. 1948. 15 C14
- 15835 PARTAIN, L. Educational, cultural work attractive to farm families. Rur. Mktg. 3(10): 2. Oct. 1948. 280.328 R88
- 15836 PAUL, L. C. Is research being utilized by the farmer? Agr. Inst. Rev. 3: 427-429, 431, 433, 435, 437-438, 440. Ref. Nov. 1948. 7 Ag8  
The problem of agricultural extension in Canada.
- 15837 PLEASANTS, J. Homesteading and health. Rur. Life [Melbourne] 1948: 5, 13. July 1948. 281.28 R884
- 15838 POE, C. Keep fighting for "more doctors, more hospitals, more insurance." Prog. Farmer, Miss.-Ark.-La. Ed. 63(12): 106. Dec. 1948. 6 So81
- 15839 POZO PELAYO, C. DEL. Ferias. Ceres [Valladolid], Sup. Inform. 12(406): 8. Sept. 15, 1948. 15 C33
- 15840 PRASSE, F. Die lage und unsere aufgaben. Nachr. f. Beratung u. Ausbildung in der Landw. 1(1): 2-3. Sept. 1948. 18 N11  
Agricultural education in Germany.
- 15841 PRATINDHI, T. A. Problem of village administration in India including the study of village panchayats. Indian J. Agr. Econ. 3(1): 114-118. Apr. 1948. 281.8 In2
- 15842 PROULX, A., and FOURNIER, G. Popular education by means of films; the service of cine-photography. Quebec. Min. Health. B. Sanit.: 76-78. Sept./Dec. 1948. 449.75 Q35B  
Also in French, p. 82-84.
- 15843 QUIXAL PRIETO, A. La agricultura en la XVI Feria Oficial e Internacional de Muestras en Barcelona. Cám. Ofic. Sind. Agr. de Barcelona. B. 3: 174-178. July 1948. 15 C14
- 15844 RAMASWAMI REDDIAR, O. P. The importance of the agriculturist. Indian Farming 9: 217-218. June 1948. 22 In283
- 15845 RAMSOWER, H. C. Extension work in agricultural policy. (Abs.) Assoc. Land-Grant Col. and U. Proc. 61: 86-87. 1947. 4 As7
- 15846 ROBERTS, E. B. Education at your elbow; self-help to advancement on the farm. 3. Farmer's Mag. 54(11): 8, 52-53. Nov. 1948. 7 C165
- 15847 ROBINSON, J. L. Vo-ag teachers tie cooperation into courses. News Farmer Coop. 15(8): 4, 20-21. Nov. 1948. 166.2 N47
- 15848 ROGER, J. L'enseignement agricole dans les Bouches-du-Rhône. Bouches du Rhone Agr. 21(988): 13. Oct. 15, 1948. 14 B662
- 15849 RUELLE, A. L'enseignement agricole dans nos écoles rurales. Monit. Agr. 1(42): 6. Oct. 31, 1948. 14 M744  
France.
- 15850 RUGGLES, E. W. Professional and graduate courses in extension work. (Abs.) Assoc. Land-Grant Col. and U. Proc. 61: 124-126. 1947. 4 As7
- 15851 RURAL INDUSTRIES BUREAU. Report; 1939-1947, being the story of the rural craftsman during and since the war. London, 1948. 36 p. 281.9 R88R
- 15852 SANZ, F. Misión de la educación en el agro. Agr. 4: 105-107. June/July 1948. 33.23 Ag3
- 15853 SERANDOUR, P. Équipement et loisirs. Monit. Agr. 1(38): 3. Oct. 3, 1948. 14 M744
- 15854 SERPIERI, A. Wartime public services. (In Italian.) Italia Agr. 85: 477-478. Sept. 1948. 16 It1
- 15855 SERVIGNE, M. L'enseignement général agromomique et les sciences exactes. Cahiers des Ingén. Agron. 2(27/30): 5-9. Sept./Dec. 1947. 14 C112
- 15856 SHUFFLER, R. H. The Texas A & M college system. Texas Livestock J. 7(10): 9, 152. Oct. 15, 1948. 49 T29
- 15857 SIVASWAMY, K. G. Village panchayats. Indian J. Agr. Econ. 3(1): 113-114. Apr. 1948. 281.8 In2
- 15858 STOWE, E. J. Schools and country crafts. Gt. Brit. Min. Agr. Agriculture 55: 355-357. Nov. 1948. 10 G79J
- 15859 STUBBE, H. Gedanken zur ausbildung des wissenschaftlichen nachwuchses. Deut. Landw. Gesell. Arb. (n. s.) 1: 43-53. 1947. 18 D48
- 15860 THOMSON, J. Schools for tomorrow; Kane County District follows tradition and consolidates. Ill. Agr. Assoc. Rec. 26(11): 12. Nov. 1948. 6 IL62
- 15861 TINDALL, C. It's planning time for better schools. Mo. Ruralist 89(23): 5, 22, 27. Dec. 11, 1948. 6 R8891
- 15862 TONEY, L. Experience in teaching veterans including use of wire recorder. Agr. Ed. Mag. 21: 137. Dec. 1948. 275.8 Ag8
- 15863 TROTZIG, L. The handicraft exhibition in Stockholm fall 1948. (In Swedish.) Lantbrukstidskr. för Dalarna 1948: 171-179. Oct. 1948. 11 L29
- 15864 TRUESDELL, H. W. Can 100 county agents reform German agriculture? Natl. Co. Agent 4(11): 10-11, 31. Nov. 1948. 275.28 N23
- 15865 ULREY, O. Economic information in farm journals. J. Farm Econ. 30: 761-764. Nov. 1948. 280.8 J822
- 15866 U. S. EXTENSION SERV. About posters and charts, by G. L. Powers. Washington? 1948. 4 p. 1.913 E4Ab7
- 15867 U. S. EXTENSION SERV. Effectiveness of Rural Family Living. Washington, 1948. 5 p. 1.913 A2Ef32  
Preliminary report. Cost and standard of living.
- 15868 U. S. EXTENSION SERV. List of State extension correspondents handling information material. Washington, 1948. 2 p. 1.913 A2L694
- 15869 U. S. EXTENSION SERV. List of State extension directors. Washington, 1948. 2 p. 1.9 Ex892Ls
- 15870 U. S. EXTENSION SERV. Number of cooperative extension workers added by 48 States and Hawaii during fiscal years July 1, 1945 to June 30, 1948. Washington, 1948. 1 p. 1.913 A2N91
- 15871 U. S. OFFICE OF EXPERIMENT STATIONS. List of land-grant colleges in the United States, November 1948. Washington? 1948. 2 p. 1.9 Ex6La
- 15872 VELOSO, V. Education and agriculture. (In Portuguese.) Lav. Arroz. 2(19): 41-42. July 1948. 59.8 L39
- 15873 VIRGINIA POLYTECHNIC INSTITUTE. DEPT. OF VOCATIONAL EDUCATION. Suggested teaching units in vocational agriculture. Blacksburg, 1948. 23 p. 275.1 V81
- 15874 WATSON, J. A. S. The National Agricultural Advisory Service. Brit. Agr. B. 1: 19-24. Spring 1948. 10 B776  
Of England and Wales.
- 15875 WEIDRINGER, W. Die besonderen aufgaben der ackerbauschulen. Nachr. f. Beratung u. Ausbildung in der Landw. 1(1): 7-8. Sept. 1948. 18 N11  
Germany.



15876 WENRICK, R. C. A state administrator looks at the institutional on-farm training program. *Agr. Ed. Mag.* 21: 112. Nov. 1948. 275.8 Ag8

15877 WILEDEN, A. F. Recreation trends in the rural community. *Recreation* 42: 410-414. Dec. 1948. 280.68 P69

15878 WILSON, B. S. Guidance of student teachers. *Agr. Ed. Mag.* 21: 105, 112. Nov. 1948. 275.8 Ag8

15879 WOOD, H. E. Schooling farmer and sons agricultural asset. *Fla. Grower* 56(12): 6, 23. Dec. 1948. 80 F6622

15880 WRIGHT, H. M. Institutional on-farm training at Hartsville, Tennessee. *Agr. Ed. Mag.* 21: 111. Nov. 1948. 275.8 Ag8

15881 ZIEGLER, E. K. A bibliography on worship for the rural church. *Agr. Missions*. B. 1, 10 p. Spring 1948. 281.29 Ag82

#### Leadership

15882 DURBIN, G. Louisiana's junior leadership camp seen as enrollment aid. *Natl. 4-H Club News* 26 (12): 24, 56. Dec. 1948. 275.28 N212

#### Rural Organizations and Movements

15883 AALTONEN, F. Cooperating farmers. *Co-op. Farmer* 1948(sup.): 5-9. Aug. 1948. 280.28 C7868

15884 ANDALÒ, G. Agriculture and economic associations. (In Italian.) *Voce dei Campi* 3(22): 1. Aug. 31, 1948. 16 V852  
Italy.

15885 ANGELO, A. D. Returns from agricultural cooperatives. (In Italian.) *Italia Coop.* 3(41): 1-2. Oct. 7, 1948. 280.28 It1

15886 AVILA, C. D. Cooperatives and finance. (In Portuguese.) *Coop [Bahia]* 7(55): 11-12. June 1948. 280.28 C7842  
Rural.

15887 BARCLAY, J. Young Farmers' Clubs in New Zealand. *Austral. Junior Farmer* 1: 6. Oct. 1948. 23 Au782

15888 BAUER, J. Drei jahre Burgenländischer Bauernbund. *Burgenländische Bauernbündler* 1(16): 1, 2. Sept. 10, 1948. 19 B91

15889 BELL, E. W. Cooperating for all of us. *Co-op. Farmer* 1948(sup.): 16. Aug. 1948. 280.28 C7868

15890 BLACKLOCK, G. M. The growth and influence of Junior Farmer Clubs. *Austral. Junior Farmer* 1: 4-5. Oct. 1948. 23 Au782

15891 BRADLEY, H. R. F. F. A. banquets at Beloit, Kansas. *Agr. Ed. Mag.* 21: 127. Dec. 1948. 275.8 Ag8

15892 BRIGGS, M. J. Co-op builds services to meet growing needs. *Hoosier Farmer* 33(11): 26-27, 38. Nov. 1948. 280.82 H76

Indiana Farm Bureau Cooperative Association.

15893 BROADFOOT, D. How the Danish farmers get rich. *O. A. C. Rev.* 61(1): 16-17. Oct. 1948. 276.8 On8  
Cooperatives.

15894 BRODY, C. L. The place of farm cooperatives in our American economy. *Chicago, Natl. Assoc. Coops.*, 1948. 5 p. 280.2 B782

15895 CALDAS, D. Finance in cooperative organizations. (In Portuguese.) *Brazil. Serv. de Econ. Rur.* B. 4/5(6/7): 20-23. Jan. 1946/Dec. 1947. 281.9 B73B

15896 CARPENTER, G. A. Coops are private enterprise. *Utah Farmer* 68(8): 12. Nov. 25, 1948. 6 D45

15897 CENTRAL LANDOWNERS' ASSOCIATION. Forty-first annual report, October 1948. n. p., 1948? 282.9 C33A

15898 CHAPMAN, E. Co-operation's broader fields. *Farmer's Mag.* 54(11): 19, 28, 29, 31. Nov. 1948. 7 C165  
Cooperative organizations in Ohio.

15899 CONOLY, G. W. Some benefits from N. F. A. banquets. *Agr. Ed. Mag.* 21: 126. Dec. 1948. 275.8 Ag8

15900 COPES, O. R. Cooperativismo. *Rev. SanCor* 6(69): 8. July 1948. 280.28 R322

15901 COSTA, R. The rise of cooperation in rural production of the Rio Grande. (In Portuguese.) *Coop [Bahia]* 7(54): 3-4. May 1948. 280.28 C7842

15902 CREWS, C. R. Cooperative enterprises.

In Crews, C. R. Ed., *Europe's co-ops as we saw them*, p. 86-93. Chicago, 1948. 280.2 C86E

15903 DELANY, D., and CAULUM, V. A. Farm women look at the Home Bureau, Chemung County, New York. *N. Y. Agr. Col. Cornell Ext. B.* 754, 20 p. Sept. 1948. 275.29 N48E

15904 EASTERBROOK, L. F. English Junior Farmers. *Westralian Farmers' Co-op Gaz.* 14: 173-174. Sept. 1948. 280.28 W522

15905 EASTERBROOK, L. F. Young Farmers' Clubs in Great Britain. *Austral. Junior Farmer* 1: 7-8. Oct. 1948. 23 Au782

15906 EDWARDS, G. T. The second hundred years of cooperatives. Denver, Farmers Ed. and Coop. Union of Amer., 1947. 90 p. 280.2 Ed92S

15907 EVERIST, A. J. Legislation dealing with primary producer co-operatives in Queensland. Brisbane, Co-operative Union of Queensland, 1947. 8 p. 280.2 Ev22

15908 FILENI, E. Agricultural technicians and their professional organizations. (In Italian.) *Gior. di Agr.* 57: 95. Apr. 20, 1947. 16 It1G  
Italy.

15909 FISCHER, A. Cooperation and its opportunity. (In Portuguese.) *Coop [Bahia]* 7(55): 5-6. June 1948. 280.28 C7842

15910 FORMENTO, M. Politics and cooperation. (In Italian.) *Gior. di Agr.* 57: 68. Mar. 23, 1947. 16 It1G

15911 FOX, G. S. Members' capital generates the power. *News Farmer Coops.* 15(9): 7-8, 18-19. Dec. 1948. 166.2 N47

Financing cooperatives with particular reference to the Consumers Cooperative Association, Kansas City, Missouri.

15912 FRESNEDA, C. Estados Unidos: historia de las cooperativas del campo. *Cooperación* 7(75/76): 20-21. May/June 1948. 280.28 C7875

15913 GALLIMBERTI, U. The new program of Confida [Confederazione Italiana degli Agricoltori]. (In Italian.) *Gior. di Agr.* 57: 20. Jan. 26, 1947. 16 It1G

15914 GAMACHE, C. A. Étude de la loi des sociétés coopératives agricoles [Canada]. *Ensemble* 9(10): 21-22. (To be cont.) Nov. 1948. 280.28 En7

15915 GARVER, H. D. F. F. A. parent-son banquets. *Agr. Ed. Mag.* 21: 124, 127. Dec. 1948. 275.8 Ag8

15916 GOTTLAND PROVINCE AGRICULTURAL ASSOCIATION. Annual report 1947. (In Swedish.) Visby, 1948. 121 p. 11 G71

15917 GREEN, P. L. Farmers face world forces. *Ohio Farm Bur. News* 28(4): 15. Nov. 1948. 6 Oh34  
Farmer organization.

15918 GREEN, P. L. An Ohio farmer goes abroad. In Crew, C. R., Ed. *Europe's co-ops as we saw them*, p. 72-81. Chicago, 1948. 280.2 C86E

15919 GREEN, P. L. Summary of my impressions abroad. In Crews, C. R., Ed. *Europe's co-ops as we saw them*, p. 82-85. Chicago, 1948. 280.2 C86E

15920 HANGAS, A. J. At the start of the third decade. *Co-op. Farmer* 1948(sup.): 3-4. Aug. 1948. 280.28 C7868

History of United Co-operative Farmers, Inc.

15921 HAYNES, K. H. Growth of co-op and other business compared. *Nulaid News* 26(7): 22. Nov. 1948. 47.8 N917

15922 HEIZER, J. M. Teamwork strengthens county co-ops. *News Farmer Coop.* 15(8): 7, 16. Nov. 1948. 166.2 N47

Auglaize Council of Cooperatives, Ohio.

15923 HETZEL, A. Anerkennung der jugendarbeit des Bauernverbandes Württemberg-Baden. *Bad. Landw. Wchnbl.* 3: 138. Sept. 11, 1948. 18 B142

15924 HIGGINS, J. A. Co-operation. Panmure, N. Z., Griffin Press, 1947. 75 p. 280.2 H53  
Agricultural in part.

15925 HOLMSTRÖM, S. Cooperative organizations and finance. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland* 17 (43): 1, 12. Oct. 25, 1947. 11 J762

15926 HORLACHER, M. Die genossenschaftliche selbsthilfe in Bayern. *Landw. Wchnbl.* 138: 220. Aug. 28, 1948. 18 L2338



- 15927 HULBERT, L. S. Capper-Volstead Act only authorizes producer associations to be formed. *Sun-sweet Standard* 32(6): 10, 12, 14. Nov. 1948. 286.83 Su7
- 15928 HUTCHINSON, C. R. Beyond our line fences. *Ohio Farm Bur. News* 28(4): 8-9. Nov. 1948. 6 Oh34 Farmer organization.
- 15929 IMHOF, A. H. Research study launched with 8 clinics. *News Farmer Coops.* 15(9): 20. Dec. 1948. 166.2 N47  
Research fellowship at the Pennsylvania State College to develop cooperative educational material.
- 15930 INTERNATIONAL LABOUR OFFICE. An abridged international directory of cooperative organizations. n. p., 1948. 12 p. 225 In8Ab
- 15931 JANDOLO, E. Duplicates to avoid. (In Italian.) *Gior. di Agr.* 57: 19. Jan. 26, 1947. 16 ItIG  
Organization of farmers in Italy.
- 15932 KILE, O. M. The Farm Bureau through three decades. Baltimore, Waverly Press, 1948. 416 p. 4 Am31Fb
- 15933 KNAPP, J. G. Co-op leaders see good things ahead. *Franklin Co-op.* 6(4): 1, 6-7. Oct. 1948. 280.28 F85
- 15934 KNAPP, J. G., and SCEARCE, J. L. Handbook on major regional farm supply purchasing cooperatives 1946-47. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 124, 45 p. Sept. 1948. 166.3 M68
- 15935 KNAPP, J. G. What are co-ops' business advantages? *News Farmer Coops.* 15(9): 16, 19. Dec. 1948. 166.2 N47
- 15936 LAWSON, H. M. The 1948 State 4-H club conservation camp. *Ohio Conserv. B.* 12(11): 20-21. Nov. 1948. 279.9 Oh330
- 15937 LEBEL, L. L'organisation des femmes rurales. *Foyer Rur.* [Montreal] 7(12): 6. Sept. 1948. 7 F83
- 15938 LEFEVRE, J. La formation donnée à l'Institut National Agronomique et l'organisation de la troisième année d'études. *Cahiers des Ingén. Agron.* 3(31/32): 17-18. Jan./Feb. 1948. 14 C112
- 15939 LJUNGMAN, D. European agricultural cooperatives. (In Swedish.) *Jordbrukarnas Föreningsblad.* Uppl. A: Östra Mellansverige och Gästrikland 18(21): 5. May 22, 1948. 11 J762
- 15940 LONGLEY, W. V. Junior farm clubs expanded rapidly in Nova Scotia. *Marit. Farmer & Co-op. Dairyman* 54(3): 5, 25, 26. Nov. 2, 1948. 7 C77
- 15941 LUZ FILHO, F. Further considerations on the Faraco substitute. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 3(28): 9-10, 19-21. Oct. 1948. 280.28 C7856  
On cooperative organizations.
- 15942 MAHEUX, G. Cultivateurs, la coopération est votre sauvegarde! Ensemble! 9(9): 8-9. Oct. 1948. 280.28 En7
- 15943 MALAYA, DIRECTOR OF COOPERATION. Annual report for the year ending 31st December 1947, by J. G. Crawford. Kuala Lumpur, 1948. 18 p. 280.29 F314
- 15944 MANADÉ, J. Les coopératives en Tchécoslovaquie. *Paysan du Sud-Ouest* 3(112): 1. Feb. 8, 1947. 14 P292
- 15945 MARTINS, R. G. Agricultural problems and rural association in Brazil. (In Portuguese.) *Brazil. Serv. de Econ. Rur. B.* 4/5(6/7): 37-40. Jan. 1946/Dec. 1947. 281.9 B73B
- 15946 MENEZES, R. B. DE. National [Brazilian] agricultural production and cooperation. (In Portuguese.) *Brazil. Serv. de Econ. Rur. B.* 4/5(6/7): 48-60. Jan. 1946/Dec. 1947. 281.9 B73B
- 15947 MERCATORIS, H. En Belgique, la Société Nationale de la Petite Propriété Terrienne (P.P.T.). *Fiches Rur.* 39, Documents, 4 p. Sept. 1948. 281.8 F44
- 15948 MILLER, W. S. General store on wheels. *News Farmer Coops.* 15(9): 11. Dec. 1948. 166.2 N47  
Trucks of the St. James, Missouri, Produce Exchange take the co-op to the farm.
- 15949 MINNESOTA STATE GRANGE. 1947 proceedings, diamond jubilee session, State Grange of Minnesota at Mora, October 21, 22, 23, 24. n. p., 1947. 97 p. 4 M662
- 15950 MONOD, L. Society's history is one of progress and improvement. *Farmer & Settler Rev.* 1(5): 9. 19. Oct. 1948. 23 F2262  
Royal Agricultural Society of Victoria.
- 15951 MOSHER, A. T. My dreams for the Agricultural Institute. *Allahabad Farmer* 22: 287-292. Mar. 1948. 22 AL5
- 15952 MURPHY, D. Community cash. *Iowa Bur. Farmer* 12(9): 36-37. Sept. 1948. 275.293 Iowa  
Benefits of the Farm Service Company at Storm Lake, a cooperative.
- 15953 MYERS, W. I. The economic outlook for farmer cooperatives and other agricultural business. *Metrop. Milk Prod. News* 8(10): 2, 19. Sept. 1948. 280.28 H56
- 15954 NATIONAL FEDERATION OF YOUNG FARMERS' CLUBS. Club programmes. London, 1948. 15 p. 10 N21C
- 15955 OEBKER, N. Work of the National Junior Vegetable Growers' Association. *Veg. Growers Assoc. Amer. Ann. Rpt.* 40: 207-211. 1948. 81 V52
- 15956 O'HARA, W. Indiana Rural Youth cooperate. *Hoosier Farmer* 33(11): 19-20. Nov. 1948. 280.82 H76
- 15957 ORTIZ, L. B. La cooperación prestaría gran servicio a la riqueza agraria. *Coop. Colomb.* 5(73): 7. July 1948. 280.28 C7863
- 15958 PAN AMERICAN UNION. DIV. OF LABOR AND SOCIAL INFORMATION. Cooperativas de crédito; estatuto conforme a la ley federal de cooperativas de crédito de los Estados Unidos. Washington, 1948. 16 p. 150.91 C78
- 15959 PARKER, F. E. Cooperatives in postwar Europe. *U. S. Bur. Labor Statis. B.* 942, 22 p. Washington, 1948. 158.6 B87
- 15960 PIGUING, R. M. The farmer problems can easily be solved through cooperatives. *Agr.-Com.-Indus. Life* 10(9): 2-3, 30, 32-33. Sept. 1948. 25 Ag8
- 15961 RESERVE BANK OF INDIA. AGRICULTURAL CREDIT DEPT. Statistical statements relating to the cooperative movement in India for the year 1945-46. Bombay, 1948. 20 p. 284.29 R315
- 15962 RIGGS, F. Cooperation in selling the F. F. A. and F. H. A. *Amer. Farm Youth* 14(4): 46-47. Sept. 1948. 6 Am393
- 15963 RONCHI, V. Call to graduate agronomists. (In Italian.) *Gior. di Agr.* 57: 55. Mar. 9, 1947. 16 ItIG  
Need for concerted action to meet current problems in Italy.
- 15964 ROYACKERS, P. F. The official organizations in agriculture. (In Dutch.) *Landbouwk. Tijdschr.* 59: 442-450. Oct./Nov. 1947. 105.2 Or3  
Netherlands.
- 15965 RURAL YOUTH OF THE UNITED STATES OF AMERICA CONFERENCE, WESTON, W. VA., 1948. Tentative program. Marietta? Ohio, 1948. 4 p. 5 R88
- 15966 SAMVIRKENDE DANSKE ANDELSSELSKABER. Cooperative organizations in Denmark in the year 1947. (In Danish.) *Andelsbladet* 49: 1321-1328. (To be cont.) Nov. 4, 1948. 280.28 An2
- 15967 SCHAKEL, R. Visit to Holland. In *Crews, C. R., Ed. Europe's co-ops as we saw them*, p. 64-71. Chicago, 1948. 280.2 C86E  
Includes discussion of farmer cooperatives.
- 15968 SCHENCK, H. E. President's annual message proves "it is good business to be in Farm Bureau." (Excerpts.) *Hoosier Farmer* 33(12): 5-7, 12, 37. Dec. 1948. 280.82 H76
- 15969 SCHLOGL, A. Bayerischer Bauernverband, entstehung und geschichte. München, Bayerischer Landwirtschaftsverlag, 1947. 76 p. 18 Sch34
- 15970 SCRUGGS, C. G. A grange that does things. *Prog. Farmer, Tex. E.* 63(12): 13, 89. Dec. 1948. 6 T311  
Bulverde Grange of Comal County, Texas.
- 15971 SELBY, H. W. The rights and responsibilities of farmers cooperatives. *Mid-South Cotton News* 7, i.e. 27(1, i.e. 12): 3. Dec. 1948. 72.8 C8295
- 15972 SIMPSON, G. W. The granger movement; first great farmers' organization in U. S. A. *West. Prod.* 26 (12, mag.): 3, 16. Nov. 18, 1948. 7 W523
- 15973 SMITH, C. B. Project work and club leadership two factors in choosing winners of 4-H awards and honors, expert says. *Okla. Rur. News* 1(11): 10. Nov. 1948. 335.8 Ok4



15974 SOCIEDAD AGRÍCOLA DEL NORTE. Memoria anual, 1947/48. Agr. del Norte 38: 103-111. June/July 1948. 9.3 So14 Chile.

15975 SOCIEDAD AGRÍCOLA DEL NORTE. La Sociedad Agrícola del Norte y los principales problemas de la zona. Agr. del Norte 38: 48-49. Mar. 1948. 9.3 So14 Chile.

15976 STERN, J. K. Pennsylvania co-operatives continue to grow. Pa. Farm Econ. 32: 2-3. Sept. 1948. 275.29 P382Pf

15977 SYRJALA, S. An outline of the history of United Co-operative Farmers, Inc. Co-op. Farmer 1948(sup.): 10-14. Aug. 1948. 280.28 C7868

15978 TERRE de Chez Nous, v. 21, No. 4, 32 p. Oct. 20, 1948. 7 T27

Special number of the General Congress of the Union Catholique des Cultivateurs, containing signed papers on the work of the organization.

15979 THOMAS, J. E. La cooperación en el campo. II. Cooperación 7(74): 5. Apr. 1948. 280.28 C7875

15980 THOMAS, M. La coopération. Rev. Franc. d'Apic. 1948: 693. Oct. 1948. 424.8 R329 On agricultural co-operatives in France.

15981 UNION TERRITORIAL DE COOPERATIVAS DEL CAMPO, DE OVIEDO. Memoria de actividades ejercicio 1947. Oviedo, 1948? 17 p. 280.29 Un36

15982 U. S. EXTENSION SERV. Program, first regional 4-H Club Camp, Southern University, Baton Rouge, Louisiana, August 24-31, 1948. Washington? 1948. 18 p. 1.913 F3R26

15983 U. S. EXTENSION SERV. What do you think about the Outlook Conference? By M. L. Collings. Washington? 1948. 6 p. 1.913 C30u8W

15984 VIEIRA, J. A. Play, learn, and produce. (In Portuguese.) Brincar e Aprender 7(28): 5. Jan./Mar. 1948. 275.249 B77 Agricultural clubs.

15985 WANSTALL, G. Co-op membership continues to grow. News Farmer Coop. 15(8): 18-19. Nov. 1948. 166.2 N47

15986 WILLIAMS, F. M. Future farmers of Germany. Amer. Farm Youth 14(5): 43. Oct. 1948. 6 Am393 German youth clubs.

15987 WOOD, M. Publicity for F. A.s and co-ops. Primary Prod. [Cape Town] 23(39): 7. Oct. 1, 1948. 281.8 P93

15988 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. You can be a 4-H Club member. Laramie? 1948? 6 p.-fold-er. 275.2 W99y

15989 XAVIER, L. P. Purpose of rural associations. (In Portuguese.) Brazil. Serv. de Econ. Rur. B. 4/5(6/7): 24-32. Jan. 1946/Dec. 1947. 281.9 B73B

15990 ZITO, F. Organization of producers. (In Italian.) Gior. di Agr. 57: 37. Feb. 16, 1947. 16 It1G Italy.

#### RURAL SOCIAL PSYCHOLOGY

15991 BAKER, O. E. The farmer deals with life. Allahabad Farmer 22: 334-335. May 1948. 22 AL5

15992 GIBSON, D. L. How much support can co-ops count on? News Farmer Coop. 15(8): 8-9, 15. Nov. 1948. 166.2 N47

Farmer opinion about cooperative operations.

15993 HOUDLETTE, H. A. Children's work and play experiences on a Maine farm. Childhood Ed. 25: 164-166. Dec. 1948. 320.8 C435

15994 PEREIRA, A. DE O. Brazilian binomial: land and man. (In Portuguese.) Brazil. Min. do Trab., Indus. e Com. B. 13(161): 170-174. Jan. 1948. 255.3 B737A

15995 RIES, L. W. Zur psychologie des landjungen. Nachr. f. Beratung u. Ausbildung in der Landw. 1(1): 9-10. Sept. 1948. 18 N11 Germany.

15996 SAMAT, M. Voisinages indésirables. Réveil Agr. 57: 321-322. Nov. 1, 1948. 14 R322

15997 WYLIE, M. Suggestions for Cornell child and adult study clubs. N. Y. Agr. Col. Cornell Ext. B. 745, 27 p. June 1948. 275.29 N48E

#### TRADE, FOREIGN AND INTERNATIONAL

15998 ADELAIDE CHAMBER OF COMMERCE. Ninety-eighth annual report. Adelaide, 1948. 196 p. 287 Ad3R

Includes report of trade in agricultural products.

15999 AUMERAN. Accord douanier franco-espagnol: importation d'oranges espagnoles. Rev. Agr. de l'Afrique du Nord 46: 480. Sept. 24, 1948. 80 R326

16000 AUSMAN, L. H. Trade between Angola and Canada limited in value and volume. Foreign Trade 4: 968-969. Nov. 13, 1948. 286.8 C162

16001 AUWERA, G. VAN DER. Economic aspects of our grape industry. (In Flemish.) Tuinbouwberichten 12: 156. Oct. 15, 1948. 80 T817 Export.

16002 BENGAL CHAMBER OF COMMERCE. Jute imports into Calcutta and the mills' stations; statement showing the quantity of jute imported into Calcutta and the mills' stations, monthly during the season 1948-1949, as compared with 1947-1948. Calcutta, 1948. 1 p. 287 B43C

16003 BOYER, J. M. Sale of Canadian flour to Middle East hampered by exchange restrictions. Foreign Trade 4: 1023. Nov. 20, 1948. 286.8 C162

16004 BRAZIL. SERVIÇO DE ESTATÍSTICA ECONOMICA E FINANCEIRA. Comércio exterior do Brasil, [Foreign trade of Brazil], 1944-1945. v. 2, 213 p. Rio de Janeiro, 1948. 255.3 F292

16005 BRAZIL. SERVIÇO DE ESTATÍSTICA ECONOMICA E FINANCEIRA. Comércio exterior do Brasil por mercadorias, [Foreign trade of Brazil by commodities] 1945-1946. v. 1. Rio de Janeiro, 1948. 71 p. 255.3 F292

Includes trade in agricultural products.

16006 CANADA. BUREAU OF STATISTICS. Trade of Canada, year ended December 31, 1947. V. II—Exports. Ottawa, 1948. 522 p. 253 C332A Text in English and French.

16007 CALABUIG Y CALABUIG, J. Avería. II. Ceres [Valladolid] 13(147): 27. Sept. 1, 1948. 15 C33 On claims for damages during shipment.

16008 CASTRO SILVA, J. M. Nuestro comercio de exportación en los últimos 10 años 1938 a 1947. Banco Nac. de Nicaragua. Rev. Trimest. 7(28): 5-8. Jan./Mar. 1948. 284.9 B2263

Includes agricultural products.

16009 CAUSSE, E. Un an de commerce vinicole international. Journée Vinic. Export 22(13): 1. Oct. 1948. 390.8 J82 Text in French and English.

16010 CHANG, H. C. Cassia trade should be revived. China Trade Monthly 1:816-818, 849. Dec. 1947. 286.8 C44

16011 CHANG, S. C. China tea exports in 1947. China Trade Monthly 2: 199-200. Feb. 1948. 286.8 C44

16012 DIEGUES JÚNIOR, M. Brazil's sugar trade in the XVI and XVII centuries. III. (In Portuguese.) Brasil Açucareiro 32: 161-164. Ref. July/Aug. 1948. 65.8 B73

16013 DIJCK, D. VAN. Cauliflower. (In Flemish.) Tuinbouwberichten 12: 35. Mar. 15, 1948. 80 T817 Chiefly on Belgian export.

16014 DOMINICAN REPUBLIC. DIRECCIÓN GENERAL DE ESTADÍSTICA. Importación de la República Dominicana 1946 y 1947. Ciudad Trujillo, 1948. 455 p. 254.8 D71721a

16015 DREW, F. W. International canned fruit trade up in 1947. West. Canner & Packer 40(12): 52-54. Nov. 1948. 286.83 W522

16016 DUNCAN, H. M. Coffee first as an import through Port Houston. Houston Port Book 26(2): 39-40. Nov. 1948. 286.8 H81

16017 EKSTRÖM, J. Hard and soft currency textile imports; the first half year's answer. (In Swedish.) Textil och Konfektion 5: 162-164. 1948. 304.8 T3192

16018 ESCH, J. A. H. Current problems with regards to potatoes. (In Dutch.) Landbouwk. Tijdschr. 59: 400-407. Oct./Nov. 1947. 105.2 Or3 Trade.

16019 FILENI, E. Agriculture and international economic agreements; the difficulties of Benelux. (In Italian.) Humus 4(3): 29. Mar. 1948. 16 H88



16020 GRAAFF, E. A. VAN DE. Foreign trade of Indonesia; 1947 compared to 1938. (In Dutch.) Econ. Weekbl. v. Indonesië 14: 91-92. May 1, 1948. 280.8 Ec76

16021 GRANT, R. Disabilities of the meat export industry. Past. Rev. 58: 840-841. Sept. 16, 1948. 23 Au75

With particular reference to Australia.

16022 GREAT BRITAIN. CUSTOMS AND EXCISE DEPT. STATISTICAL OFFICE. Annual statement of the trade of the United Kingdom with British countries and foreign countries, 1946, compared with the years 1942-1945. Vol. II. London, 1948. 674 p. 256.03 T67Ac

16023 GROSSERER-SOCIETETETS KOMITE. Commercial report for the year 1946. (In Danish.) København, 1947. 403 p. 287 C79

Includes foreign trade.

16024 INTERNATIONAL EMERGENCY FOOD COUNCIL. U. S. exports as recommended by IEFC (thousands of pounds, oil equivalent), 1948. Washington? 1948. 2 p. 286.88 In8

16025 INTERNATIONAL EMERGENCY FOOD COUNCIL. U. S. imports as recommended by IEFC (millions of pounds, oil equivalent), 1948. Washington? 1948. 1 p. 286.88 In8U

16026 IRAQ. PRINCIPAL BUREAU OF STATISTICS. Statistical abstract, 1946. Baghdad, 1948. 233 p. 269.8 Ir1

Includes trade and transportation statistics.

16027 JENSEN, K. Danish cheese production in the melting pot. (In Danish.) Nord. Mejeri-Tidsskr. 14: 121-122, 125-126. 1948. 44.8 N752

Types and quality of cheese and export.

16028 JUSSIANT, J. Le commerce extérieur de la Belgique en 1946. Louvain. U. Catholique. Inst. de Rech. Econ. et Sociales. B. 13: 431-446. July 1947. 280.9 L92

16029 JUSSIANT, J. La situation du commerce extérieur en 1947 et au début de 1948. Louvain. U. Catholique. Inst. de Rech. Econ. et Sociales. B. 14: 421-438. Aug. 1948. 280.9 L92

16030 KAMER VAN KOOPHANDEL EN FABRIEKEN VOOR ZUID-HOLLAND. Jaarverslag [annual report], 1946. Rotterdam, 1947? 489 p. 287 K12

Includes trade in agricultural products.

16031 KELLER, J. C. Heavy movement of peanuts for European recovery. Peanut J. & Nut World 28(2): 27, 61. Dec. 1948. 77.8 P313

16032 KENYA. CUSTOMS DEPT. Annual trade report of Kenya and Uganda for the year ended 31st December 1947. Nairobi, 1948. 218 p. 270 K423

16033 KING, C. C. Customers of China's tea. China Trade Monthly 2: 355-356, 400. Apr. 1948. 286.8 C44

16034 KRUIJK, P. A. Experiences with foreign markets. (In Dutch.) Groenten en Fruit 4: 205, 235-236. Oct. 7, 21, 1948. 80 G89

Vegetables and fruit.

16035 LIEBERG, G. The horse and the horse export. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 18(16): 3. Apr. 17, 1948. 11 J762

16036 LUCE, A. D. Qui achètera nos oeufs?—notre bacon? B. des Agr. 44(11): 25. Nov. 1948. 7 B872

Canada.

16037 MARESCALCHI, A. Agricultural exportation. (In Italian.) Ital. Vinic. ed Agr. 38: 205-207. Sept. 30, 1948. 95.8 It1

16038 MAYAYO, F. La fruta de Aragón en la capital francesa. Ceres [Valladolid] 13(147): 24-25. Sept. 1, 1948. 15 C33

16039 MEILVANG, P. Danish butter is "hard currency." (In Danish.) Nord. Mejeri-Tidsskr. 14: 117-120. 1948. 44.8 N752

Export.

16040 MUZIOL, R. Europäische aussenhandelsverflechtung und Marshallplan. Kiel, 1947. 74 p. 286 M98

16041 NEW ZEALAND. MARKETING DEPT. (EXPORT DIV.). Annual report (eleventh) and accounts for the year ended 31st July, 1947. Wellington, 1948. 56 p. 280.39 N489

16042 PLANS ROSÉS, J. M. La exportación de productos del campo. Cám. Ofic. Sind. Agr. de Barcelona. B. 3: 55-56. Mar. 1948. 15 C14

16043 PRIESTMAN, H. L. E. Eire-Netherlands agreement features exchange of cattle for fertilizer. Foreign Trade 4: 1046-1047. Nov. 20, 1948. 286.8 C162

16044 SCHALKERS, K. S. The significance of agriculture for future Netherlands exports. (In Dutch.) Economist [Haarlem] 96: 641-657. Oct. 1948. 280.8 Ec792

16045 STAUNING, A. Apple export. (In Danish.) Gart. Tid. 64: 473-474, 508-509. Sept. 29, Oct. 20, 1948. 80 G192

16046 STAUNING, A. Export of nursery plants. (In Danish.) Gart. Tid. 64: 471-472. Sept. 29, 1948. 80 G192

16047 STOCKMAN, S. K. Volume of Swedish foreign trade during the years 1871-1911. I. (In Swedish.) Sweden. Kommerskol. Kom. Meddel. 35: 448-451. Sept. 1948. 257.3 K832K

16048 SWITZERLAND. DIRECTION GÉNÉRALE DES DOUANES FEDERALES. Statistique du commerce suisse: rapport annuel, 1946. Berne, 1947? 2 v. 262 D85R

16049 TAGLIACARNE, G. Italian foreign trade in the framework of world trade. Banca Naz. del Lav. Q. Rev. 4: 228-239. Jan. 1948. 280.9 B2282

16050 TESTA, E. Coffee and Brazil-Great Britain trade. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 23: 169-172. Mar. 1948. 68.29 Sa63

16051 TORRIGLIA, C. Custom duty and olive and olive oil trade. (In Italian.) Olivicoltura 3(8): 7-8. Aug. 1948. 80 OL42

16052 TUNING, W. Is our flower export a step child? (In Dutch.) Bloemisterij 22(42): 3. Oct. 15, 1948. 80 B624

16053 U. S. DEPT. OF STATE. Florida and foreign trade. Washington? 1947. 18 p. 150.1 F66

16054 U. S. DEPT. OF STATE. Havana charter for an international trade organization, March 24, 1948. U. S. Dept. State. Com. Policy Ser. 114, 155 p. Washington, 1948. (P. 3206) 150 C73

16055 WIENAND, E. B. What is the future of our export markets? Calif. Fruit & Grape Grower 2(11): 7. Nov. 1948. 95.8 G762

16056 YEAMAN, A. F. Scots resist London [live-stock] exports control. Farming News & North Brit. Agr. 100(46): 2. Nov. 5, 1948. 10 N82

#### FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

#### GENERAL

16057 BEATTIE, J. Problems of undernutrition. Nutr. Dietet. Catering 1947: 106-111. Autumn 1947. 389.8 N959

16058 BLACK, J. D. Provision for nutrition in the formulation of agricultural programs. J. Farm Econ. 30: 703-712. Nov. 1948. 280.8 J822

16059 BRANSBY, E. R., DAUBNEY, C. G., and KING, J. Comparison of results obtained by different methods of individual dietary survey. Brit. J. Nutr. 2: 89-110. Ref. 1948. 389.8 B773

16060 BRANSBY, E. R. Remarks on anthropometric and performance tests. Brit. J. Nutr. 2: 171-173. 1948. 389.8 B773

16061 BRIWA, K. E. Easy meals for home folks. Maine. Agr. Col. Ext. C. 243, 4 p. Jan. 1948. 275.29 M281C

Chiefly recipes.

16062 CAMERON, E. J. Report on the nutrition program. Natl. Canners Assoc. Inform. Let. 1211: 371-372. Nov. 17, 1948. 389.9 N214In

Also in Canning Trade 71(18): 16-17. Nov. 22, 1948. 286.83 T67

16063 CAMPBELL, F. W., and WEIR, J. B. DE V. Tuxford's index of nutrition: a convenient nomogram. Brit. J. Nutr. 2: 119-122. 1948. 389.8 B773

16064 CLAYTON, C. B. Keeping up to date on nutrition. Pract. Home Econ. 26: 742, 751, 757. Dec. 1948. 321.8 H752



- 16065 DEPEW, F. M. Nutritional improvement presents many legal problems. *Food Indus.* 20: 1766-1769, 1867-1869. Dec. 1948. 389.8 F737
- 16066 DICKINS, D., and SHEETS, O. Foods and nutrition projects in the South supported by Research Marketing Act funds. (Abs.) *Assoc. South. Agr. Workers. Proc.* 45: 113-114. 1948. 4 C82
- 16067 ELVEHJEM, C. A. Food and nutrition; seven decades of nutrition research. (Abs.) *Science* 108: 598. Nov. 26, 1948. 470 Sci2
- 16068 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Report of the Nutrition Committee, Baguio, Philippines, 23-28 February 1948. Nutrition problems of rice-eating countries in Asia. Washington, 1948. 24 p. 389.1 F734R
- 16069 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. NUTRITION DIVISION. Rice and rice diets. F. A. O. *Nutr. Studies* 1, 72 p. Washington, 1948. 389.9 F735Fan
- 16070 HARRIS, K. W., and WOOD, M. A. Community meals. *N. Y. Agr. Col. Cornell Ext. B.* 743, 31 p. Sept. 1948. 275.29 N48E
- 16071 HARRIS, R. S. Progresos de la nutrición en Centro América. *Ofic. Sanit. Panamer. B.* 27: 902-911. Oct. 1948. 449.9 P192B  
English summary.
- 16072 KRATZING, J. Food surveys in institutions. *Austral. Inst. Anat. Food & Nutr. Notes & Rev.* 5: 90-93. July/Aug. 1948. 389.9 Au73
- 16073 MCCAY, C. M. Recent advances in nutrition. *Dairy World* 27(6): 45-48. Nov. 1948. 44.8 D1423
- 16074 MCDOUGALL, F. L. The quantity and quality of life in relation to poverty and malnutrition. *Nutr. Dietet. Catering* 1947: 97-104. Autumn 1947. 389.8 N95C
- 16075 MACRAE, T. F. Some psychological factors in mass feeding. *Nutr. Dietet. Catering* 1947: 104-106. Autumn 1947. 389.8 N959
- 16076 MAGYAR, I. Hunger oedema and thiamine deficiency. *Internatl. Z. f. Vitaminforsch.* 19(1/2): 66-69. 1947. 389.8 Z33
- 16077 MAKOMASKI, Z. Die hungerkrankheit (die konzentrationslagerkrankheit und ihre komplikationen). *Internatl. Z. f. Vitaminforsch.* 19(1/2): 35-61. 1947. 389.8 Z33  
Summary in French and English.
- 16078 MARRACK, J. R. Laboratory investigations into the state of nutrition. *Brit. J. Nutr.* 2: 147-158. Ref. 1948. 389.8 B773
- 16079 MARRACK, J. R. Malnutrition and resistance to infection. *Food Manufacture* 23: 505-506. Nov. 1, 1948. 389.8 F736
- 16080 MASEK, J. Dietetics in Czechoslovakia. *Nutr. Dietet. Catering* 1947: 111-114. Autumn 1947. 389.8 N959
- 16081 MIEGEVILLE. La bromatologie ou science de l'alimentation. *Terre Maroc.* 20: 242-246. Sept. 1948. 24 T44
- 16082 MOORE, E. E. Food requirements for health. *New Zeal. J. Agr.* 77: 211-213. Aug. 1948. 23 N48J
- 16083 NARUT, L. F., and TURNBULL, G. C. Dangers from the use of the rice diet. (Abs.) *J. Lab. & Clin. Med.* 33: 1468-1469. Nov. 1948. 448.8 J8233
- 16084 NATIONAL RESEARCH COUNCIL. Recommended dietary allowances, revised 1948. *Natl. Res. Council. Reprint & C. Ser.* 129, 31 p. Oct. 1948. 330.9 N21R
- 16085 NELSON, R. N. Low-cost meals with high appeal. *Hawaii. U. Agr. Ext. Home Econ. C.* 225, 4 p. Aug. 1948. 275.29 H312H  
Chiefly recipes.
- 16086 OHLSON, M. A. The dietary requirements of aging women. *Amer. J. Nursing* 48: 706-709. Nov. 1948. 448.8 Am323
- 16087 OSMOND, A. Long range planning for nutrition education. *Austral. Inst. Anat. Food & Nutr. Notes & Rev.* 5: 94-95. July/Aug. 1948. 389.9 Au73
- 16088 PETT, L. B. The functions of nutritionists. *Nutr. Dietet. Catering* 1947: 125-126. Autumn 1947. 389.8 N959
- 16089 RAMOS ESPINOSA, A. Mi contribución al estudio de la alimentación mexicana. *Medicina; Rev. Mex.* 29: 325-330. July 1948. 448.8 M4693
- 16090 ROUSE, M. The dietitian and the nutritionist. *Nutr. Dietet. Catering* 1947: 124, 123. Autumn 1947. 389.8 N959
- 16091 ROUSE, M. National nutrition and the dietitian. *Nutr. Dietet. Catering* 1947: 118-121. Autumn 1947. 389.8 N959  
Great Britain.
- 16092 SALCEDO, J., JR., CARRASCO, E. O., JOSE, F. R., and VALENZUELA, R. C. Studies on beriberi in an endemic sub-tropical area. *J. Nutr.* 36(5): 561-577. Ref. Nov. 10, 1948. 389.8 J82
- 16093 SELBY, B. J. School lunch program in California. *School Food Serv. Assoc. News* 5(5): 3. Oct. 1948. 389.8 Sch6
- 16094 SINCLAIR, H. M. Clinical surveys and correlation with biochemical, somatometric and performance measurements. *Brit. J. Nutr.* 2: 161-170. Ref. 1948. 389.8 B773
- 16095 STEVENSON, J. A. F. Canadian hospital feeding in Britain. *Nutr. Dietet. Catering* 1947: 121-123. Autumn 1947. 389.8 N959
- 16096 STIEBELING, H. K. Some nutritional considerations in long-range outlook. Washington, U. S. Bur. Human Nutr. and Home Econ., 1948. 7 p. 1.982 A2St5
- 16097 SWAMINATHAN, R. The survival of the unfittest? *Indian Vet. J.* 25(1): 33-35. July 1948. 41.8 In2  
Lack of adequate food supply in India.
- 16098 UNGLEY, C. C. An example of difficulties in the assessment of nutritional status. *Brit. J. Nutr.* 2: 170-171. 1948. 389.8 B773
- 16099 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Dietary surveys and their interpretation. Washington? 1948? 39 p. 1.982 A2D562
- 16100 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family food plan at moderate cost; weekly quantities of food for each member of family. Washington? 1948. 1 p. 1.982 A2F212
- 16101 VOGT-MOLLER, P. Ernährungskrankheit bei Rehwild behandelt mit B-vitaminen. *Internatl. Z. f. Vitaminforsch.* 19(1/2): 116-118. 1947. 389.8 Z33  
Summary in English and French.
- 16102 WOODS, R. The calcium requirement of adults. *Borden's Rev. Nutr. Res.* 9(9), 12 p. Ref. Nov. 1948. 389.8 B64
- 16103 YUDKIN, J. Anthropometric and performance tests. *Brit. J. Nutr.* 2: 158-161. Ref. 1948. 389.8 B773  
For determination of nutritional states.

## FOOD HABITS

- 16104 AYKROYD, W. R. Note on the results of diet surveys in India, Burma and Ceylon. *Cawnpore, Job Press*, 1948. 35 p. (Indian Res. Fund Assoc. Spec. Rpt. 16) 389.1 Ay3No
- 16105 MEAD, M. Cultural contexts of nutritional patterns. (Abs.) *Science* 108: 598-599. Nov. 26, 1948. 470 Sci2

## NUTRITIVE AND VITAMIN CONTENT

- 16106 CIOFFI, R. M. Soy products in human nutrition. (In Italian.) *Humus* 4(3): 25-26. Mar. 1948. 16 H88
- 16107 CUNTO, M. DE. Utilization of soybeans in Brazilian nutrition. (In Portuguese.) *Brazil. Min. do Trab., Indus. e Com. B.* 13(161): 135-145. Jan. 1948. 255.3 B737A
- 16108 DURAN QUEVEDO, T. Valor alimenticio del azúcar de caña. *Retiro Azucarero* 3: 25-26. Jan./Feb. 1947. 65.8 R31
- 16109 FACHINI, G. Summer butter and the nutritive value of butterfats. (In Italian.) *Humus* 4(3): 27-28. Mar. 1948. 16 H88
- 16110 GREBINSKII, S. O. Vitamins in vegetables and in fruits. (In Russian.) *Priroda* 37(4): 43-45. Apr. 1948. 410 P933
- 16111 GUERRANT, N. B., and others. Nutritive value of canned food. *Indus. & Engin. Chem.* 40: 2258-2263. Dec. 1948. 381 J825  
O. B. Fardig, M. G. Vavich, and H. E. Ellenberger, joint authors.
- 16112 HOPKINS, D. P. Milk and nutrition. *Milk Indus.* 29(5): 54-57. Nov. 1948. 44.8 M593
- 16113 KRETOVICH, V. L. Problema pishchevoĭ polnośennosti khleba [Problem of the nutritive value of bread]. *Moskva, Akademika Nauk, SSSR, Institut Biokhimii*, 1948. 161 p. 389.1 K88



16114 JONES, J. This folic acid business. MGA Bulletin 13: 181. Oct. 1948. 80 M97  
Vitamin B in mushrooms.

16115 LAER, M. VAN, and STORCK, R. La teneur des bières belges en vitamine B<sub>6</sub>. Cong. Internat. des Indus. de Fermentation (1947)1: 122-124. 390.09 C76  
Summary in English and Dutch.

16116 LEDERLE LABORATORIES. The need in human nutrition for vitamins. Lederle B. 13(5): 3-30. Ref. Sept. 1948. 448.9 L49

16117 LEICHSENRING, J. M., and NORRIS, L. M. Do stored potatoes lose vitamin C? Minn. Farm & Home Sci. [Minn. Sta.] 4, 15. Nov. 1948. 100 M668

16118 LEONT'EV, I. F. Methionine in man's nutrition. (In Russian.) Priroda 37(4): 45-46. Apr. 1948. 410 P933

16119 LEONT'EV, I. F. Vitamins of soybeans. (In Russian.) Priroda 37(5): 37-38. May 1948. 410 P933

16120 LOPEZ-MATAS, A., and FELLERS, C. R. Composition and nutritive value of fresh, cooked, and processed swordfish. Food Res. 13: 387-396. Ref. Sept./Oct. 1948. 389.8 F7322

16121 MCWHIRTER, L. Little difference in vitamin content of bean varieties. Miss. Farm Res. [Miss. Sta.] 11(11): 1, 7. Nov. 1948. 100 M69M

16122 MURRAY, H. C. Vitamin content of field-pea products: retention of thiamin and riboflavin on cooking. Food Res. 13: 397-399. Sept./Oct. 1948. 389.8 F7322

16123 NATIONAL CANNERS ASSOCIATION. Getting an adequate diet by use of canned foods, with a chart to guide meal planning. Washington, 1948? Folder. 389.1 N2142

16124 NÈGRE, E. Retour au pain blanc? Les levures, aliment complémentaire du pain. Prog. Agr. et Vitic. 1948: 199-203. Oct. 17/24, 1948. 14 P94

16125 NEUWEILER, W. Über das vitamin E der frauenmilch. Internat. Z. f. Vitaminforsch. 20(1/3): 108-116. Ref. 1948. 389.8 Z33  
Summary in English and French.

16126 NEYMARK, M. Vegetables rich in vitamins. (In Swedish.) Trädgårdstidningen 20(7/8): 5, 30. Apr. 1948. 80 T67

16127 NORRIS, F. W. Vitamins in brewing materials and beer; a progress report. Cong. Internat. des Indus. de Fermentation (1947)1: 110-121. Ref. 390.09 C76  
Summary in French and Dutch.

16128 PHILLIPS, W. M. For health—rice! Rice News 15(11): 4, 7. Nov. 1948. 59.8 R362

16129 PULKKI, L. H. On the quantities and location of vitamins in cereals. Cong. Internat. des Indus. de Fermentation (1947)1: 459-471. Ref. 390.09 C76

16130 ROLLINS, M. A. Relative cost of nutrients in a serving of food. N. Y. (Cornell) Agr. Expt. Sta. B. 845, 65 p. Oct. 1948. 100 N48C

16131 SANDOZ, L. M. Le lait vitaminé. Enseign. Ménager 21: 28-34. June 1948. 321.9 Of2

16132 SMITH, J. A. B. The nutritive value of fats, with special reference to butter and margarine. Brit. J. Nutr. 2: 190-201. Ref. 1948. 389.8 B773

16133 STAUDT, E. Über den nährwert des brotes. Internat. Z. f. Vitaminforsch. 19(1/2): 101-115. 1947. 389.8 Z33

Summary in English and French.

16134 SURE, B., and HOUSE, F. The relative biological values of the proteins in cereal grains. J. Nutr. 36(5): 595-600. Ref. Nov. 10, 1948. 389.8 J82

16135 VEENBAAS, A. Food value of potatoes in connection with breeding new varieties. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Meded. 50; 40 p. 1947. 12 N383

16136 WACHHOLDER, K. Über das bedürfnis nach einer reichlichen versorgung mit vitamin C unter den heutigen ernährungsverhältnissen und über die frage einer verwöhnung durch eine hohe vitaminic-C-zufuhr. Klin. Wchnschr. 24/25: 806-809. Oct. 15, 1948. 448.8 K68

16137 ZAEHRINGER, M., BROOKS, J., and PERSONI-US, C. Bread, rolls tested for thiamine retention. Farm Res. [N. Y. State Sta.] 14(4): 15. Oct. 1948. 100 N48A

## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

16138 AMERICAN FORESTRY ASSOCIATION. Teaching conservation; a guide in natural resources education, by W. P. Beard. Washington, 1948. 144 p. 279.12 B38

16139 ASHBY, E. Hybrid vigour. New Biol. 4: 9-25. 1948. 442.8 J63

16140 BALL, R. C. Relationship between available fish food, feeding habits of fish and total fish production in a Michigan lake. Mich. Agr. Expt. Sta. Tech. B. 206, 59 p. Ref. Mar. 1948. 100 M58S

16141 BARAGER, C. P. Mr. Rat—the rat! Family Herald & Weekly Star 79(45): 3, 16. Nov. 10, 1948. 7 F21

Includes control measures.

16142 BARDÍÁ BARDÍÁ, R. La lucha contra las ratas en el campo. II. Cám. Ofic. Sind. Agr. de Barcelona. B. 3: 181-184. July 1948. 15 C14

16143 BLACKWELL, H. L. Rat prevention. Mod. Poultry Keeping 59: 382. Oct. 20, 1948. 47.8 Eg3

16144 BRANNAN, C. F. The farmer and the druggist. Washington, U. S. D. A., 1948. 9 p. 1.91 A2B73  
New drugs of farm origin.

16145 BRITISH HONDURAS. DEPT. OF AGRICULTURE. Annual report for 1947. n. p., 1948. 15 p. 8 B773

16146 CALIFORNIA. DEPT. OF AGRICULTURE. BUR. OF CHEMISTRY. Economic poisons, 1947-1948. Calif. Dept. Agr. Spec. P. 229, 111 p. 1948. 2 C121S

16147 CARTER, A. N. A glossary of type nomenclature. Victorian Nat. 65: 92-95. Aug. 1948. 410 V66

16148 CASTRO, D. DE, and RODRIGUES, J. C. Observations on cytological microtechnique. (In Portuguese.) Agros 31: 211-220. (To be cont.) July/Aug. 1948. 15.5 Ag82

16149 CEYLON. DEPT. OF AGRICULTURE. Administration report of the Acting Director of Agriculture for 1946. Colombo, 1948. 88 p. 22.5 C33R

16150 CYPRUS. DEPT. OF AGRICULTURE. The wartime activities of the Department of Agriculture. Nicosia, 1948. 32 p. 281.185 C99

16151 DAVIS, D. E. Principles of rat management. Pests 16(11): 9-10, 12. Nov. 1948. 449.8 Ex8

16152 DELAWARE. STATE BOARD OF AGRICULTURE. Annual report 1947-1948. Dover, 1948. 49 p. 2 D37B

16153 EGYPT. MINISTRY OF AGRICULTURE. Ministry of Agriculture, sections and functions; with an introduction to Egyptian agriculture. Cairo, Govt. Press, 1948. 63 p. 35.2 Eg9M

16154 EMERY, C. E. Algunos aspectos del plan de gobierno del Ministerio de Agricultura. Bolsa de Com., Rosario. Rev. 36(881): 11-21. Sept. 30, 1948. 287 R71

16155 FRANKLIN INSTITUTE. BIOCHEMICAL RESEARCH FOUNDATION. Reports, v. 9, 1946-1947. Newark, Del., 1948? various paging. 381 F85

16156 GEORGIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Farming for freedom; 1947 annual report. Ga. Agr. Col. Ext. B. 545, 30 p. May 1948. 275.29 G29B

16157 GILBERT, E. J. Contribution a l'analyse des notions d'espèce et de lignée. Soc. Linn. de Lyon. B. Mens. 16: 157-159. Sept. 1947. 505 L992B

16158 HEMMING, F. Important advances in zoological nomenclature achieved at the Thirteenth International Congress of Zoology. Coleopterists' B. 2: 52-55. June 1948. 421 C674

16159 HERMANN, F. Die chromosomenlandkarte. Orion 3: 413-416. Oct. 15, 1948. 474 Or4

16160 HINE, H. J. Photography in agricultural experiments. Gt. Brit. Min. Agr. Agriculture 55: 300-305. Oct. 1948. 10 G79J

16161 HOADLEY, T. C. Chemistry in agriculture. West. Grower & Shipper 19(12): 114-115. Nov. 1948. 280.38 W52



16162 JÖNKÖPING. LANTBRUKSKEMISKA KONTROLLSTATIONEN. Report of the Agricultural Chemical Control Station in Jönköping, July 1, 1947-June 30, 1948. (In Swedish.) Jönköping, 1948. 11 p. 385 J73

16163 JÖNSSON, F. Ears of grain and spruce brash, bees and bears; coins with farm symbols from the whole world. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17(51/52): 12. Dec. 20, 1947. 11 J762

16164 KANSAS. STATE BOARD OF AGRICULTURE. Thirty-fifth biennial report, 1945/46. Topeka, 1948. 463 p. 2 K13R

16165 DIE LANDFRAU; jahrbuch mit kalender, 1948. Stuttgart. 1947? 180 p. 18 L2393

16166 LATHAM, E. Extermination en Angleterre des rats par le poison. Rev. Agr. de l'Afrique du Nord 46: 398-399. Aug. 6, 1948. 80 R326

16167 LEAVITT, K. Wildlife to the farmer. North Amer. Wildlife Conf. Trans. 13: 170-175. 1948. 412.9 N814

16168 LOS ANGELES COUNTY, CALIFORNIA. AGRICULTURAL COMMISSIONER. Annual report, 1947/48. Los Angeles, 1948. 36 p. 81 L89A

16169 MCCARGO, S. After the rats. G. L. F. Week. Serv. Sched. 13(20): 2. Nov. 15, 1948. 280.28 G113W

16170 MCCASKILL, L. W. Importance of birds to agriculture and forestry in New Zealand. Forest & Bird 88: 7-8. May 1948. 413 N42

16171 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. List of available publications. College Park, 1948. 25 p. 275.29 M36Ls

16172 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Extension work, 1947; thirty-third annual report. College Park, 1948? 23 p. 275.29 M36

16173 MATHER, K. Nucleus and cytoplasm in differentiation. Soc. Expt. Biol. Symposia 2: 196-216. Ref. 1948. 442.9 S015

16174 MOCZARSKI, Z. Stabilized and unstabilized genes, a hypothesis. (In Polish.) Roczn. Nauk Rolnicz. i Leśnych 50: 197-200. 1948. 20.5 R59  
English summary.

16175 MUELLER, A. W., and ALEXANDER, J. A. New methods and poisons for the control of rats. (In Hebrew.) Hassadeh 28: 487-490. (Concl.) Aug. 1948. 26 H27

16176 NATIONAL RESEARCH COUNCIL, CANADA. Review, 1946. Ottawa, 1947. 146 p. (N.R.C. 871) 330.9 C16Re

16177 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Report, year ended 30th June, 1947. Sydney, 1948. 44 p. 23 N47P

16178 NIGERIA. AGRICULTURAL DEPT. Annual report for the year 1945. Lagos, 1948. 38 p. 24 N563

16179 ONTARIO. DEPT. OF AGRICULTURE. Report for the year ending March 31st, 1948. Toronto, 1948. 174 p. 7 O8Re

16180 PERRUCHE, L. Les isotopes radioactifs en biologie. Nature [Paris] 3162: 308-309. Oct. 1948. 472 N21

16181 QUEENSLAND. DEPT. OF AGRICULTURE AND STOCK. Annual report for the year 1947-48. Brisbane, 1948. 92 p. 23 Q3

16182 RURAL BANK OF NEW SOUTH WALES. Australian rural industries; a graphical presentation. Sydney, 1948. 144 p. 281.1992 R88

Land utilization, natural resources, population and land settlement, and agricultural and livestock industries.

16183 SCHMIDT, H. W. Ungefährliche rattenbekämpfung im stall. Saat u. Ernte 3(8): 5. Aug. 1948. 18 S412

16184 SHEA, J. P. A new approach to farmer-sportsmen cooperation. North Amer. Wildlife Conf. Trans. 13: 163-169. 1948. 412.9 N814

Cooperative organizations for wildlife conservation.

16185 SHORTRIDGE, N. Make wildlife a "farm crop"; preservation of wild animals and birds should be considered in farm program. Purdue Agr. 40(2): 6, 15. Nov. 1948. 6 P97

16186 SMITH, D. T., and others. Zinsser's textbook of bacteriology. The application of bacteriology and immunology to the diagnosis, specific therapy and prevention of infectious diseases for students and practitioners of medicine and public health. Ed. 9. New York, Appleton-Century-Crofts, 1948. 992 p. 448.2 Sm5

16187 SOCIETY FOR EXPERIMENTAL BIOLOGY. Growth in relation to differentiation and morphogenesis. New York, Academic Press, 1948. 365 p. (Symposia 2) 442.9 S015

16188 SPENCER, H. J. Don't permit rats to rob you. Fla. Grower 56(12): 11, 24. Dec. 1948. 80 F6622

16189 SWEDEN. LANTBRUKSSTYRELSEN. Report of the Farm Board for the year 1947. (In Swedish.) Stockholm, 1948. 150 p. 11 Sw3B

16190 U. S. ATOMIC ENERGY COMMISSION. Summary of applications of radioisotopes to agricultural research as of November 15, 1947, by N. H. Woodruff and S. P. Cobb, Jr. Washington, 1947. 5 p. 173 At7Su

16191 U. S. DEPT. OF AGRICULTURE. Recommendations relative to the development, utilization and conservation of natural resources, with special reference to agriculture. Washington, 1948. 9 p. 1.90 A2R24

16192 U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Lectures on [natural] resource utilization and conservation. Washington? 1948? 3 p. 1.984 L49

16193 U. S. DEPT. OF AGRICULTURE. LIBRARY. Available bibliographies and lists. U. S. D. A. Libr. Libr. List 25, rev., 1 p. Sept. 1948. 1.916 L612

16194 WADDINGTON, C. H. The genetic control of development. Soc. Expt. Biol. Symposia 2: 145-154. 1948. 442.9 S015

16195 WALLACE, G. J. The barn owl in Michigan; its distribution, natural history and food habits. Mich. Agr. Expt. Sta. Tech. B. 208, 61 p. Ref. Aug. 1948. 100 M58S

16196 ZANZIBAR PROTECTORATE. DEPT. OF AGRICULTURE. Annual report, 1947. Zanzibar, 1948. 55 p. 24 Z1

#### HISTORY AND BIOGRAPHY

16197 BEEKEEPER of the month, H. J. Schaffer. South. Beekeeper 2(8): 14. Aug. 1948. 424.8 S083

16198 BEEKEEPER of the month, J. E. Eckert. South. Beekeeper 2(9): 9. Sept. 1948. 424.8 S083

16199 BEST, H. Ferdinand von Mueller, the man. Victorian Nat. 65: 132-137. Oct. 1948. 410 V66

16200 BROMFIELD, L. The passing of a great friend of agriculture. Rur. Life [Melbourne] 1948: 3. May 1948. 281.28 R884  
Sir Albert Howard.

16201 CERIGHELLI, R. Bernard Palissy, promoteur des applications de la science expérimentale à l'agriculture. Inst. Natl. Agron. Paris. Ann. 34: 7-84. 1947. 105.3 In8

16202 CHARDON, C. E. Wilson Popenoe: un científico de la United Fruit Company y un hombre que pertenece a las Americas. Inst. de Defensa del Café de Costa Rica. Rev. 19: 73-76. June 1948. 68.28 C82

16203 ESSIG, E. O. Theodore Dru Alison Cockerell. Pan-Pacific Ent. 24: 117-121. July 1948. 421 P193

16204 FEINBRUN, N. In memory of a young botanist, Yitzhak Halevi. (In Hebrew.) Hassadeh 28: 453-455. Aug. 1948. 26 H27

16205 HISAZUMI, H. Yoshimatsu Yamamoto (1893-1947). Taiwan 1: 7-11. May 1948. 450 T13

16206 HUDIG, J. In memoriam A. van der Have. (In Dutch.) Landbouwk. Tijdschr. 59: 225-226. June/July 1947. 105.2 Or3

16207 JAIVENOIS, A. Un grand pomologue belge: l'Abbé Hardenpont. Courrier Hort. 10: 534. Sept. 1948. 80 C834

16208 JAUBERT, G. F. Ph.-J. Baldensperger (6 Juin 1856-4 Juin 1948). Apiculteur 92: 194-198. Aug. 1948. 424.8 Ap3

16209 KOEGEL, L. Carl Schröter, der grosse pflanzengeograph. Kosmos 44: 1-2. Jan./Feb. 1948. 474 K842

16210 KRUMBIEGEL, I. Johann Dzierzon, begründer der bienenkunde. Kosmos 43: 317-318. Oct. 1947. 474 K842

16211 LEEUWENHOEK, A. VAN. Alle de brieven van Antoni van Leeuwenhoek [The collected letters of Antoni van Leeuwenhoek]. v. III. Amsterdam, Swets & Zeitlinger, 1948. 561p. 330 L51

16212 LINSLEY, E. G. Theodore D. A. Cockerell. Brooklyn Ent. Soc. B. 43: 116-118. Oct. 1948. 420 B79

16213 MASAMUNE, G. Works of the late Prof. Y. Yamamoto. Taiwan 1: 13-17. May 1948. 450 T13

16214 MEINERS, E. P. Brief biographies. 14. George Duryea Hulst (1846-1900). Lepidopterists' News 2: 66. June 1948. 421 L554



- 16215 MEINERS, E. P. Phil Rau (1885-1948). Lepidopterists' News 2: 62. June 1948. 421 L554
- 16216 OLSEN, C. E. Memories of early visits to J. R. de la Torre-Bueno and his bug sanctuary. Brooklyn Ent. Soc. B. 43: 135-137. Oct. 1948. 420 B79
- 16217 ÖRJANGÅRD, S. Agricultural historical research. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 18(24): 5. June 12, 1948. 11 J762
- 16218 ÖRJANGÅRD, S. Glimpses from the annals of family farms. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige och Gästrikland 17 (51/52): 1, 6. Dec. 20, 1947. 11 J762
- 16219 PETROV, B. F. Life and scientific activities of academician Leonid Ivanovich Prasolov. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trud. 27: 7-22. 1948. 56.9 P44
- 16220 ROMAN, E. Victor Battetta, mycologue et entomologiste (1882-1947). Soc. Linn. de Lyon. B. Mens. 16: 133. Sept. 1947. 505 L992B
- 16221 SHAW, F. R. Langstroth memorial. Mod. Beekeeping 32: 703-704. Sept. 15, 1948. 424.8 B397
- 16222 SKINNEMOEN, K. Professor Agnar Barth. 26. August 1871-4. May 1948. (In Norwegian.) Tidsskr. for Skogbruk. 56: 139-141. July/Aug. 1948. 99.8 T432
- 16223 SLOGTEREN, VAN. Dr. E. H. Krelage. (In Dutch.) Landbouwk. Tijdschr. 59: 226-227. June/July 1947. 105.2 Or3
- 16224 USUELLI, F. Franco Lanfranchi. (In Italian.) Zootec. e Vet. 3: 190-191. Apr./May 1948. 41.8 Z7
- 16225 WATSON, I. The green flag. Victorian Nat. 65: 60-67. July 1948. 410 V66
- Biographical notes on Linnaeus and Lamarck.
- 16226 WILEY, L. David Douglas. Trees [Dorchester] 12: 98-100. Autumn 1948. 99.8 T714
- 16227 WISCONSIN. CROP AND LIVESTOCK REPORTING SERV. A century of Wisconsin agriculture, 1848-1948. Wis. Crop and Livestock Rptg. Serv. B. 290, 119 p. June 1948. 2 W752Bu
- 16228 WYGANT, J. D. Pennsylvania's Isaac Newton pioneer of agriculture. Pa. Dept. Internal Aff. Monthly B. 16(10 i. e. 11): 12-13. Oct. 1948. 280.9 P383

## HOME MANAGEMENT

- 16229 CHURCH, H. Your sewing machine attachments. Ariz. Agr. Col. Ext. C. 143, 8 p. Aug. 1948. 275.29 Ar42
- 16230 DICKERSON, L. B. Chairs with the "new look." Hawaii. U. Agr. Ext. Home Econ. C. 223, 6 p. July 1948. 275.29 H312
- How to make slip covers.
- 16231 DICKERSON, L. B. Household storage; home made clothes closets. Hawaii. U. Agr. Ext. Home Econ. C. 220, 2 p. July 1948. 275.29 H312
- 16232 DICKERSON, L. B. The know how of cleaning varnished or stained surfaces and upholstered furniture. Hawaii. U. Agr. Ext. Home Econ. C. 221, 3 p. July 1948. 275.29 M312H
- 16233 DICKERSON, L. B. Upholstered footstool. Hawaii. U. Agr. Ext. Home Econ. C. 222, 6 p. July 1948. 275.29 H312H
- 16234 DODSON, E., and REIS, R. Making a coat. Calif. Agr. Col. Ext. C. 145, 22 p. Aug. 1948. 275.29 C12C
- 16235 IWIG, D. J., and MCKEE, M. A. Pictures on your walls. Ill. Agr. Col. Ext. HE-P66, 8 p. Jan. 1948. 275.29 IL62Phep
- 16236 LINCOLN, R. Take care of your pressure canner. Ariz. Agr. Col. Ext. C. 140, 6 p. July 1948. 275.29 Ar42
- 16237 NELSON, R. N. The joy of entertaining. Hawaii. U. Agr. Ext. Home Econ. C. 224, 6 p. Aug. 1948. 275.29 H312H
- 16238 PAGE, E. C. Your first coat. Mass. U. Agr. Ext. Leaflet 245, 20 p. Aug. 1948. 275.29 M381L
- Making a child's coat.
- 16239 STALEY, H. K. Hand-finishing your dress. N. Y. Agr. Col. Cornell Ext. B. 739, 4 p. Oct. 1948. 275.29 N48E
- 16240 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Bibliography of recent publications. Washington, 1948. 20 p. 1.982 E2B47
- Home economics and management.

- 16241 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Free popular printed publications. Washington? 1948. 2 p. 1.9 H755P

- 16242 U. S. EXTENSION SERV. A suggested outline of research problems for classes of clothing and textiles, by. A. F. Tesi. Washington, 1948. 2 p. 1.913 H4Su32

## INTERNATIONAL RELATIONS

- 16243 "AMERICA United Program," May 23, 1948, Paris, France. Topic for discussion: Conference of the International Federation of Agricultural Producers. n. p., 1948. 4 p. 28 Am32
- 16244 BROADLEY, SIR H. The F.A.O. and the world food problem. Canad. Dairy & Ice Cream J. 27 (11): 72-74, 82. Nov. 1948. 44.8 C162
- 16245 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. NEW ZEALAND DELEGATION. The Food and Agriculture Organization of the United Nations; report of the New Zealand Delegation on the third session held at Geneva, 25 August-11 September, 1947. Wellington, 1948. 32 p. 389.9 N487R
- 16246 INTER-AMERICAN CONFERENCE ON CONSERVATION OF RENEWABLE NATURAL RESOURCES. 1, DENVER, 1948. Report of the exhibits committee on plans for exhibits. Washington? 1948. 3 p. 279.9 In83R
- 16247 INTER-AMERICAN INSTITUTE OF AGRICULTURAL SCIENCES. ADMINISTRATIVE COMMITTEE. Report... to the board of directors, Nov. 13/15, 1947. Washington, D. C., Pan Amer. Union, 1948. 40 p. 28 In833
- 16248 MCDUGALL, F. L. What the FAO plans are. Washington? 1948. 8 p. 389.9 M14
- 16249 ROGERS, C. E. Organization and activities of FAO. Nutr. Dietet. Catering 1947: 114-117. Autumn 1947. 389.8 N959
- 16250 UNITED NATIONS. SECRETARIAT. DEPT. OF ECONOMIC AFFAIRS. United Nations Scientific Conference on the Conservation and Utilization of Resources; provisional programme. Lake Success. 42 p. 279.9 Un31
- 16251 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Inter-American conference on conserving natural resources, by C. F. Brannan and K. Himebaugh. Washington, 1948. 2 p. 1.914 R2R11

## METEOROLOGY

- 16252 AZZI, G. Ecología agrícola. Agronomía [Lima] 12(51): 23-49. (To be cont.) June/July 1947. 9.8 Ag83
- 16253 BARGER, G. L. The characterization and evaluation of drought hazard in Iowa. Iowa State Col. J. Sci. 23: 4-6. Oct. 1948. 470 Io9
- Abstract of thesis (Ph. D.)—Iowa State College.
- 16254 BOERMAN, W. E. Climate and world food production. (In Dutch.) Landbouwk. Tijdschr. 59: 429-434. Oct./Nov. 1947. 105.2 Or3
- 16255 BURGOS, J. J., and FINA, A. L. DE. La lluvia artificial. IDIA; Inform. de Invest. Agr. 1(9): 1-4. Sept. 1948. 9 Id3
- 16256 HOFMANN, A. Das problem des künstlichen regens. Kosmos 44: 29-30. Jan./Feb. 1948. 474 K842
- 16257 JACINTO BURGOS, J. Algo más sobre la lluvia artificial. IDIA; Inform. de Invest. Agr. 1(10): 6. Oct. 1948. 9 Id3
- 16258 KING, J. A., and others. Artificial stimulation of rain. Nature [London] 162: 921. Dec. 11, 1948. 472 N21
- 16259 LAMMERT, A. Schlaglichter aus der agrar-meteorologie. Deut. Landw. 2: 85-86. June 1948. 18 D485
- 16260 MALENOTTI, E. Can hail be controlled? (In Italian.) Gior. di Agr. 58: 309. Nov. 7, 1948. 16 It1G
- 16261 PAPADAKIS, J. S. Corrientes. IDIA; Inform. de Invest. Agr. 1948(spec. No.): 30-41. Aug. 1948. 9 Id3
- Climate and agriculture.
- 16262 SANDERSON, M. The climates of Canada according to the new Thornthwaite classification. Sci. Agr. 28: 501-517. Ref. Nov. 1948. 7 Sci2
- 16263 STAPLETON, H. N. Meteorological observations for August 1948. Mass. Agr. Expt. Sta. Met. Ser. B. 716, 4 p. Aug. 1948. 100 M38H



16264 VITKEVICH, V. I. Agro-meteorological observatory in Southern Crimea (Mshatka); its organization and scientific work. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 7: 52-54. 1948. 20 M857

16265 WEPFER, K. Wind und wetter. Grüne 76: 1069-1090. Oct. 8, 1948. 17 Sch9

#### RESEARCH

16266 BREIREM, K. Research and educational work within the field of agriculture in U. S. A. (In Norwegian.) Tidsskr. for det Norske Landbr. 55: 153-196. July/Aug. 1948. 11 T433

16267 DOUGHERTY, J. L. Agricultural research in S. A. Primary Prod. [Cape Town] 23(41): 17. Oct. 15, 1948. 281.8 P93

16268 EMERY, C. A. El estado y las investigaciones agrícolas. IDIA; Inform. de Invest. Agr. 1(10): 1-3. Oct. 1948. 9 Id3

16269 FALDINI, J. Impresiones sobre los centros investigadores de los Estados Unidos. IDIA; Inform. de Invest. Agr. 1(9): 6-7. Sept. 1948. 9 Id3

16270 GEORGE, L. V. Farmers from hill sections benefit from [North Louisiana Experiment] Station program. La. Stockman Farmer 1: 8, 12, 22. Oct. 1948. 6 L933

16271 GRILLOT, G. Le rôle et l'activité des fermes et stations expérimentales. Terre Maroc. 20: 223-230, 261-265. Sept.-Oct. 1948. 24 T44

16272 GRONINGEN. LANDBOUWPROEFSTATION EN BODEMKUNDIG INSTITUUT T. N. O. Verslag [Report] 1947. Groningen, 1948. 68 p. 105.2 G893V

16273 IDAHO. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Idaho; fifty-fifth annual report, 1947/48. Idaho. Agr. Expt. Sta. B. 270, 68 p. July 1948. 100 Id1

16274 LUSH, J. L. Report on the research on genetics in Britain. London, 1948. 12 p. 443 L972

16275 MCCALL, M. A. Obligations of science toward freedom from want. Chron. Bot. 11: 273-280. Summer 1948. 450 C46

16276 MISSISSIPPI. AGRICULTURAL EXPERIMENT STATION. Highlights of the work of the Mississippi Experiment Station; sixtieth annual report, 1946/47, by R. Coleman. State College? 1948? 60 p. 100 M69

16277 NEW JERSEY. AGRICULTURAL EXPERIMENT STATION. Science and the land; the 68th annual report, 1946-47. New Brunswick, 1947? 111 p. 100 N46S

16278 NEW ZEALAND. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. Twenty-second annual report. Wellington, 1948. 38 p. 320.9 N48  
Includes agricultural research.

16279 NORDISKE JORDBRUGSFORSKERES FORENING. Report of the Scandinavian Agricultural Research Association's Seventh Congress, Oslo, July 1947. 2. (In Danish, Norwegian, and Swedish.) Nord. Jordbrugsforsk. 1948: 341-605. København, 1948. 11 N752

16280 OHIO. AGRICULTURAL EXPERIMENT STATION. Farm science and practice; sixty-sixth annual report, 1946/47. Ohio. Agr. Expt. Sta. B. 674, 73 p. Feb. 1948. 100 Oh3S

16281 PALMER, A. M. University research foundations. (Abs.) Assoc. Land-Grant Col. and U. Proc. 61: 95-97. 1947. 4 As7

16282 PALMER, R. C. A bird's-eye view of research. Agr. Inst. Rev. 3: 451-452. Nov. 1948. 7 Ag8  
In Okanagan Valley, Canada.

16283 PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Science for the farmer; supplement 1 to the 61th annual report. Pa. Agr. Expt. Sta. B. 502, sup. 1, 12 p. Oct. 1948. 100 P383

16284 PUERTO RICO. FEDERAL EXPERIMENT STATION. Report of the Federal Experiment Station in Puerto Rico, 1947. Mayaguez, 1948. 85 p. 1 Ex65

16285 RHODE ISLAND. AGRICULTURAL EXPERIMENT STATION. 60th annual report, 1947. R. I. Agr. Expt. Sta. Contrib. 722, 72 p. Mar. 1948. 100 R34S

16286 TEIXEIRA, A. J. DA S. The scientific message of Rothamsted. (In Portuguese.) Agros 31: 203-210. (Cont.) July/Aug. 1948. 15.5 Ag82

16287 TRULLINGER, R. W. What is ahead for the experiment stations. (Abs.) Assoc. South. Agr. Workers. Proc. 45: 64-66. 1948. 4 C82

16288 U. S. NORTHERN REGIONAL RESEARCH LABORATORY. List of publications and patents, January-June 1948. U. S. Bur. Agr. and Indus. Chem. AIC-187, sup. 1, 11 p. Aug. 18, 1948. 1.932 A2Ag82

16289 WAGENINGEN. CENTRAAL INSTITUUT VOOR LANDBOUWKUNDIG ONDERZOEK. Verslag [report] 1947. 's-Gravenhage, 1948? 84 p. 281.9 W12

16290 WOODWORTH, H. C. The role of the New England Research Council in regional research. New England. Res. Council Mktg. and Food Supply. Proc. 1948: 18-22. 252.004 N443M

Discussion, p. 23-32.

#### STATISTICS

16291 HENDRICKS, W. A. Mathematics of sampling. Blacksburg, 1948. 45 p. (Virginia. Agr. Expt. Sta. Spec. Tech. B.) 251 H382

16292 HOUSEMAN, E. E. Outline of some methods for selecting samples of households. New England. Res. Council Mktg. and Food Supply. Proc. 1948: 71-74. 252.004 N443M

16293 IOWA. STATE COLLEGE. STATISTICAL LABORATORY. 1947-48 annual report. n. p., 1948. 23 p. 251 Io92

16294 JACOBSEN, H. Use of statistical methods in research. (In Danish.) Lin. Dansk-Svensk Hørtidsskr. 1: 48-52. Mar. 1947. 73.18 L63

16295 MALONEY, C. J. Stratification in survey sampling. Iowa State Col. J. Sci. 23: 53-54. Oct. 1948. 470 Io9

Abstract of thesis (Ph. D.)—Iowa State College.

#### CORRECTION

Item 73322 in the November 1948 issue, which appears also in the checklist of publications of the Bureau of Entomology and Plant Quarantine was mimeographed for administrative use and is not available for distribution.



## U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

## Circulars

CALLANDER, R. C. Delivery notices in cotton futures market. U. S. D. A. C. 794, 19 p. July 1948. 1 Ag84C

STANTON, T. R. New varieties of oats from bond crosses resistant to Victoria blight. U. S. D. A. C. 795, 7 p. Ref. Oct. 1948. 1 Ag84C

## Farmers' Bulletins

BAKER, W. A., and BRADLEY, W. G. The European corn borer [*Pyrausta nubilalis*]; its present status and methods of control. U. S. D. A. Farmers' B. 1548, rev., 46 p. Sept. 1948. 1 Ag84F

DARROW, G. M., and WALDO, G. F. Raspberry culture. U. S. D. A. Farmers' B. 887, rev., 38 p. Sept. 1948. 1 Ag84F

MCCALMONT, J. R. Silos; types and construction. U. S. D. A. Farmers' B. 1820, rev., 64 p. Sept. 1948. 1 Ag84F

## Leaflets

U. S. SOIL CONSERVATION SERV. What is a conservation farm plan? U. S. D. A. Leaflet 249, 7 p. Oct. 1948. 1 Ag84L

## Miscellaneous Publications

LARSEN, H. C., and JOHNSON, N. W. Managing farm finances. U. S. D. A. Misc. P. 652, 69 p. Sept. 1948. 1 Ag84M

## Program Aid

LYNDE, L. A. Let's talk it over; the extension worker as a counselor. U. S. D. A. PA-56, 15 p. Nov. 1948. 1 Ag89Pro

## Technical Bulletins

WILCOX, L. V. The quality of water for irrigation use. U. S. D. A. Tech. B. 962, 40 p. Ref. Sept. 1948. 1 Ag84Te

WILLAMAN, J. J., and ESKEW, R. K. Preparation and use of leaf meals from vegetable wastes. U. S. D. A. Tech. B. 958, 102 p. Ref. Oct. 1948. 1 Ag84Te

## Unnumbered Publications

U. S. DEPT. OF AGRICULTURE. Crops and markets 25: 1-120. Jan. 1948. 1 Ag84Wcm

U. S. DEPT. OF AGRICULTURE. Recommendations relative to the development, utilization and conservation of natural resources, with special reference to agriculture. Washington, 1948. 9 p. 1.90 A2R24

U. S. DEPT. OF AGRICULTURE. Report to the Inter-Agency Committee for the Development of Alaska on the Department's activities in Alaska in fiscal year 1949. Washington? 1948. 10 p. 1.90 C2In87

U. S. DEPT. OF AGRICULTURE. Save farm grain by fumigation! U. S. D. A. CFM-1, 2 p. Jan. 1948. 1.90 A2C11

U. S. DEPT. OF AGRICULTURE. The support price program. Washington, 1948. 17 p. 1.90 A2Su72 Preliminary.

U. S. LAWS, STATUTES, ETC. 1945-1946 pocket supplement to laws applicable to the United States Department of Agriculture. Washington, 1948. 326 p. 1 So45L1

## AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

HALL, H. H. Food technology and preservation; a selected list of books. U. S. Bur. Agr. and Indus. Chem. CA-1, 2 p. Feb. 1948. 1.932 A2C42

SCOTT, W. M. Some recent developments in cotton research at the Southern Regional Research Laboratory. U. S. Bur. Agr. and Indus. Chem. AIC-215, 11 p. Nov. 16, 1948. 1.932 A2Ag82

Presented before the annual meeting of the Textile Institute, New York, Nov. 18-19, 1948.

SOUTHERN EXPERIMENT STATION COLLABORATORS' CONFERENCE. Proceedings. New Orleans? 1948. 67 p. 1.9321 S2P942

U. S. EASTERN REGIONAL RESEARCH LABORATORY. Production of white potato flour and meal. U. S. Bur. Agr. and Indus. Chem. CA-4, 2 p. Aug. 1948. 1.932 A2C42

U. S. EASTERN REGIONAL RESEARCH LABORATORY. References on potato chips. U. S. Bur. Agr. and Indus. Chem. CA-3, 1 p. June 1948. 1.932 A2C42

U. S. EASTERN REGIONAL RESEARCH LABORATORY. Utilization of white potatoes. Wyndmoor, Pa., 1948? Chart. 1.9321 E2Ut3

U. S. NORTHERN REGIONAL RESEARCH LABORATORY. List of publications and patents, January-June 1948. U. S. Bur. Agr. and Indus. Chem. AIC-187, sup. 1, 11 p. Aug. 18, 1948. 1.932 A2Ag82

U. S. WESTERN REGIONAL RESEARCH LABORATORY. Partial list of manufacturers of spray driers. U. S. Bur. Agr. and Indus. Chem. CA-2, 2 p. Apr. 1, 1948. 1.932 A2C42

## AGRICULTURAL ECONOMICS, BUREAU OF

BENNETT, B. H. The dairy situation and the outlook for milk production. Washington, U. S. Bur. Agr. Econ., 1948. 6 p. 1.941 A2B43

Presented before the Supplies Section, Dairy Industry Foundation, Atlantic City, Oct. 28, 1948.

EDLER, G. C. Observations on the field and vegetable seed situation in Europe. Washington, U. S. Off. Foreign Agr. Relat., 1948. 4 p. 1.941 A22Ed5

Summary of remarks before a meeting of Economic Co-operation Administration representatives with the International Seed Trade Relations Committee of the American Seed Trade Association, Washington, D. C., Oct. 7, 1948.

GOODSELL, W. D. Farm costs and returns, 1945-47, commercial family-operated farms in 6 major farming regions. U. S. Bur. Agr. Econ. F. M. 70, 18 p. Sept. 1948. 1.941 L6F22

STINE, O. C. [Outlook for agriculture.] Washington, U. S. Bur. Agr. Econ., 1948. 3 p. 1.941 H22St5

Abstract of address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 11, 1948.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle feeding situation—November 1, 1948. Washington, 1948. 2 p. 1.9 Ec742Cat

U. S. BUR. OF AGRICULTURAL ECONOMICS. Citrus fruits; acreage, production, farm disposition, value and utilization of sales. Washington, 1948. 10 p. 1.941 H8C49

U. S. BUR. OF AGRICULTURAL ECONOMICS. Cowpeas: production, farm disposition, and value, by States, 1924-44. Washington, 1948. 11 p. 1.941 H2C832

U. S. BUR. OF AGRICULTURAL ECONOMICS. General instructions to enumerators of the Alabama corn survey. Washington? 1948? 3 p. 1.941 A22G28

U. S. BUR. OF AGRICULTURAL ECONOMICS. Lamb feeding situation, November 1, 1948. Washington, 1948. 2 p. 1.9 Ec742Lam



U. S. BUR. OF AGRICULTURAL ECONOMICS. 1949 agricultural outlook charts. Washington, 1948. 1.9 Ec7Agr Ch

U. S. BUR. OF AGRICULTURAL ECONOMICS. Stocks of vegetable seeds on June 30, 1947, 1948, and 1942-46 average. Washington, 1948. 8 p. 1.941 S8V522

U. S. BUR. OF AGRICULTURAL ECONOMICS. The world sugar situation. Washington, 1948. 57 p. 1.9 Ec752Ws

WALLRABENSTEIN, P. P. Wages and wage rates of hired farm workers, United States and major regions. U. S. Bur. Agr. Econ. Surveys of Wages and Wage Rates in Agr. Rpt. 21, 57 p. Sept. 1948. 1.941 R3Su7

#### ANIMAL INDUSTRY, BUREAU OF

U. S. BUR. OF ANIMAL INDUSTRY. REGIONAL POULTRY RESEARCH LABORATORY. Ninth annual report, 1947/48. East Lansing, 1948. 21 p. 1.972 A3R291

#### DAIRY INDUSTRY, BUREAU OF

U. S. BUR. OF DAIRY INDUSTRY. An index for using the micro-film strip on Jersey-cattle families. U. S. Bur. Dairy Indus. BDIM-889-A, rev., 9 p. 1948. 1.973 D4B34

U. S. BUR. OF DAIRY INDUSTRY. Summary of the progress of the dairy cattle breeding experiments at the Agricultural Research Center, Beltsville, Md. U. S. Bur. Dairy Indus. BDIM-Inf-8, rev., 10 p. Sept. 10, 1948. 1.973 D4B34

#### ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

BOWEN, C. V. A second list of publications on benzene hexachloride. U. S. Bur. Ent. and Plant Quar. E-755, 38 p. Sept. 1948. 1.9 En83

SMITH, F. F., LUNG, P. H., and FULTON, R. A. Parathion in aerosols for the control of pests on greenhouse ornamentals. U. S. Bur. Ent. and Plant Quar. E-759, 8 p. Oct. 1948. 1.9 En83

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Information about bee culture. U. S. Bur. Ent. and Plant Quar. E-276, rev., 10 p. Sept. 1948. 1.9 En83

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Mexican fruitfly [*Anastrepha ludens*] quarantine; lifting of permit and sterilization requirements. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 573, 2 p. Sept. 11, 1948. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions, Dominion of Canada. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 514, Sup. 2, 1 p. Sept. 17, 1948. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Republic of Switzerland; restrictions on account of San José Scale [*Aspidiotus perniciosus*]. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 413, rev., sup. 1, 5 p. Oct. 28, 1948. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Republic of Turkey. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 451, Sup. 3, 1 p. Sept. 20, 1948. 1.9 F73

#### EXPERIMENT STATIONS, OFFICE OF

PUERTO RICO. FEDERAL EXPERIMENT STATION. Report of the Federal Experiment Station in Puerto Rico, 1947. Mayaguez, 1948. 85 p. 1 Ex65

U. S. OFFICE OF EXPERIMENT STATIONS. List of land-grant colleges in the United States, November 1948. Washington? 1948. 2 p. 1.9 Ex6La

#### EXTENSION SERVICE

LIVESTOCK PRODUCTION AND MARKETING CONFERENCE. Report of conference, Jackson's Mill, W. Va., June 22-25, 1948. Washington, U. S. Ext. Serv., 1948. 19 p. 1.913 C3L752

REGIONAL CONFERENCE ON LIVESTOCK AND CROP PEST CONTROL. Report of conference, Chicago, June 24-26, 1948. Washington, U. S. Ext. Serv., 1948. 24 p. 1.913 C3R265

U. S. EXTENSION SERV. About posters and charts, by G. L. Powers. Washington? 1948. 4 p. 1.913 E4Ab7

U. S. EXTENSION SERV. Effectiveness of Rural Family Living. Washington, 1948. 5 p. 1.913 A2Ef32

Preliminary report.

U. S. EXTENSION SERV. Great Plains States wheat and small grain harvest, 1943-1947, by E. H. Leker. Washington, 1948. 31 p. 1.913 A3W56

U. S. EXTENSION SERV. List of State extension correspondents handling information material. Washington, 1948. 2 p. 1.913 A2L694

U. S. EXTENSION SERV. List of State extension directors. Washington, 1948. 2 p. 1.9 Ex892Ls

U. S. EXTENSION SERV. Number of cooperative extension workers added by 48 States and Hawaii during fiscal years July 1, 1945 to June 30, 1948. Washington, 1948. 1 p. 1.913 A2N91

U. S. EXTENSION SERV. Pattern of slaughter and meat production under Federal inspection, 1943-47, by P. L. Fletcher. Washington? 1948. 20 p. 1.913 A2P27

U. S. EXTENSION SERV. Program, first regional 4-H Club Camp, Southern University, Baton Rouge, Louisiana, August 24-31, 1948. Washington? 1948. 18 p. 1.913 F3R26

U. S. EXTENSION SERV. A suggested outline of research problems for classes of clothing and textiles, by A. F. Tesi. Washington, 1948. 2 p. 1.913 H4Su32

U. S. EXTENSION SERV. What do you think about the Outlook Conference? By M. L. Collings. Washington? 1948. 6 p. 1.913 C3Ou8W

U. S. EXTENSION SERV. Wheat and rye summary for the crop year beginning July 1947. Chicago, 1948. 10 p. 1.913 A2W56

U. S. Production and Marketing Administration cooperating.

#### FARM CREDIT ADMINISTRATION

GESSNER, A. L. Handbook of cooperatives processing horticultural products, 1945-46 & 1946-47. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 120, 28 p. June 1948. 166.3 M68

HURST, W. M. Farmers' cooperative feed mills; plans and operations. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 125, 41 p. Oct. 1948. 166.3 M68

JOHNSTON, H. L. Cooperation for rural health. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 123, 55 p. Ref. Sept. 1948. 166.3 M68

KNAPP, J. G., and SCEARCE, J. L. Handbook on major regional farm supply purchasing cooperatives, 1946-47. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 124, 45 p. Sept. 1948. 166.3 M68

LEBEAU, O. R. Prepackaging fruits and vegetables by cooperatives. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 126, 20 p. Oct. 1948. 166.3 M68

U. S. FARM CREDIT ADMIN. Semiannual report on loans and discounts. Washington, 1948. 10 p. 166.2 M76

WILKINS, P. C., and MANN, L. B. Frozen food locker cooperatives in Illinois, 1947. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 122, 39 p. Sept. 1948. 166.3 M68

#### FEDERAL CROP INSURANCE CORPORATION

U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 loss adjustment manual for dry edible beans (dollar coverage insurance). Washington? 1948. 31 p. 1.952 L897

#### FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

ALLARD, H. A., and ALLARD, H. F. Tobacco in the Dominican Republic. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 30, 27 p. Sept. 1948. 1.943 F763

COINER, M. S. Planting and harvesting dates in Latin America. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 32, 36 p. Oct. 1948. 1.943 F763



## FOREST SERVICE

- DEMMON, E. L. Forestry situation in the Lake States. U. S. Forest Serv. Lake States Forest Expt. Sta. Paper 13, 6 p. Sept. 1948. 1.9622 L2St2
- FENTON, R. H. Wood content of stacked 4-foot round pulpwood in Connecticut. U. S. Forest Serv. Northeast. Forest Experiment Sta. Paper 17, 8 p. Aug. 1948. 1.9622 N2St22
- FOBES, E. W. Slab pick-up racks. U. S. Forest Serv. Forest Prod. Lab. Impr. Harvesting Methods. Equip. Survey Notes. Mimeog. R1637-26, 2 p. Aug. 1948. 1.9 F761R
- GEVORKIANTZ, S. R., and OLSEN, L. P. An improved increment-core method for predicting growth of forest stands. U. S. Forest Serv. Lake States Forest Expt. Sta. Paper 12, 19 p. July 1948. 1.9622 L2St2
- GEVORKIANTZ, S. R. More [railroad] ties on better sites. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 302, 1 p. Oct. 1948. 1.9 F7625T
- HORN, A. G. Lake States pulpwood production declines in 1947. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 301, 2 p. Oct. 1948. 1.9 F7625T
- MCLINTOCK, T. F. Evaluation of tree risk in the spruce-fir region of the Northeast. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 16, 7 p. Aug. 1948. 1.9622 N2St22
- MOWAT, E. L. Selection cutting reduces ponderosa pine losses at Pringle Falls. U. S. Forest Serv. Pacific Northwest Forest Expt. Sta. Forest Res. Note 45, 3 p. Oct. 13, 1948. 1.9 F7629Fr
- NEETZEL, J. R. Distribution of Minnesota farm woodland. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 303, 2 p. Oct. 1948. 1.9 F7625T
- NUTTING, A. D., and MCGUIRE, J. R. Observations on fire-damaged white pine in southwestern Maine, July 1948. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 19, 9 p. Aug. 1948. 1.9622 N2St22
- RUDOLF, P. O. Winter damage to Scotch Pine in northern Minnesota. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 305, 1 p. Oct. 1948. 1.9 F7625T
- SCHANTZ-HANSEN, T. Logging methods and peeling of aspen. U. S. Forest Serv. Lake States Forest Expt. Sta. Lake States Aspen Rpt. 3, 14 p. Ref. July 1948. 1.9622 L2L14
- STAEBLER, G. R. Use of dominant tree heights in determining site index for Douglas-fir. U. S. Forest Serv. Pacific Northwest Forest Expt. Sta. Forest Res. Note 44, 3 p. Sept. 1, 1948. 1.9 F7629Fr
- U. S. FOREST SERV. Angelina National Forest, Texas. Washington, 1948. Map. 1 F765Ma
- U. S. FOREST SERV. Ashley National Forest, Utah and Wyoming. Washington? 1948. Map. 1 F765Ma
- U. S. FOREST SERV. Cache National Forest, Idaho and Utah. Washington? 1948. Map. 1 F765Ma
- U. S. FOREST SERV. Caribou National Forest, Idaho, Utah, Wyoming. Washington, 1948. 17 p. 1 F76232C
- U. S. FOREST SERV. Caribou National Forest, Idaho, Utah and Wyoming. Washington? 1948. Map. 1 F765Ma
- U. S. FOREST SERV. Davy Crockett National Forest, Texas. Washington, 1948. Map. 1 F765Ma
- U. S. FOREST SERV. Forest service films available on loan for educational purposes. Washington, 1948? 14 p. 1.962 A2F76
- U. S. FOREST SERV. Norris-Doxey woodland management cooperation, 1948; narrative portion of annual progress report. Washington? 1948. 8 p. 1.962 A2N79
- U. S. FOREST SERV. CENTRAL STATES FOREST EXPERIMENT STATION. Forest resources of Missouri. U. S. Forest Serv. Central States Forest Expt. Sta. Forest Survey Release 6, 19 p. Sept. 1948. 1.9622 C3F76
- U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on wood finishing subjects. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R454, 15 p. Sept. 1948. 1.9 F761R
- U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications relating to fungus defects in forest products and to decay in trees. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R508, 25 p. June 1948. 1.9 F761R

U. S. FOREST SERV. NORTHERN ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION. List of publications available for distribution or loan, 1910 through 1947. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Paper 14, 26 p. June 1948. 1.9622 N3St1

U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION. Annotated bibliography of naval stores practices and the management of naval stores timber, 1947. Asheville, N. C., 1948? 5 p. 1.9622 S4An72

U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION. Bibliography of the Southeastern Forest Experiment Station, 1946/1947. Asheville, N. C., 1948. 9 p. 1.9622 S4B472

WATTS, L. F. Fifty years of forestry in the Black Hills. Washington, U. S. Forest Serv., 1948. 5 p. 1.962 A2W34

Address at program in observance of 50th anniversary of the establishment of the Black Hills National Forest, Sept. 19, 1948.

WERREN, F. Fatigue of sandwich constructions for aircraft. Fiberglas-honeycomb core material with fiberglas-laminate or aluminum facings, tested in shear. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1559-C, 4 p. Aug. 1948. 1.9 F761R

WERREN, F. Fatigue of sandwich constructions for aircraft. Fiberglas-laminate face and end-grain balsa core sandwich material tested in shear. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1559-D, 4 p. Sept. 1948. 1.9 F761R

WILSON, S. A., and MALONE, P. E. Instability of forest land ownership in western Oregon and Washington, 1932-1941. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Paper 1, 57 p. June 1948. 1.9622 P2R31

ZASADA, Z. A. Aspen lumber grades and characteristics. U. S. Forest Serv. Lake States Forest Expt. Sta. Lake States Aspen Rpt. 6, 9 p. Sept. 1948. 1.9622 L2L14

ZASADA, Z. A., and ZEHNGRAFF, P. J. Logging costs of aspen. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 304, 1 p. Oct. 1948. 1.9 F7625T

## GRADUATE SCHOOL

U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Lectures on [natural] resource utilization and conservation. Washington? 1948? 3 p. 1.984 L49

## HUMAN NUTRITION AND HOME ECONOMICS, BUREAU OF

STIEBELING, H. K. Some nutritional considerations in long-range outlook. Washington, U. S. Bur. Human Nutr. and Home Econ., 1948. 7 p. 1.982 A2St5

Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 11, 1948.

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Bibliography of recent publications. Washington, 1948. 20 p. 1.982 E2B47

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Dietary surveys and their interpretation. Washington? 1948? 39 p. 1.982 A2D562

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family food plan at moderate cost; weekly quantities of food for each member of family. Washington? 1948. 1 p. 1.982 A2F212

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Free popular printed publications. Washington? 1948. 2 p. 1.9 H755P

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Outlook charts, rural family living. Washington? 1948? 103 p. 1.982 A2Ou83

U. S. Bureau of Agricultural Economics cooperating.

WEISS, G. S. Outlook for farm family living, 1949. Washington, U. S. Bur. Agr. Econ., 1948. 5 p. 1.982 A2W43

Address, Annual Agricultural Outlook Conference, Oct. 12, 1948, Washington, D. C.



U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Are farmers getting grain stored this fall? By L. K. Smith and K. M. Gopen. Washington, 1948. 2 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. The foot-and-mouth disease situation, by E. T. Simms, M. R. Clarkson, M. S. Shahan, and others. Washington, 1948. 7 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Inter-American conference on conserving natural resources, by C. F. Brannan and K. Himebaugh. Washington, 1948. 2 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Outlook time for agriculture, by O. C. Stine, B. Allin, M. L. Wilson, and others. Washington, 1948. 6 p. 1.941 H22St5

#### LIBRARY

U. S. DEPT. OF AGRICULTURE. LIBRARY. Available bibliographies and lists. U. S. D. A. Libr. Libr. List 25, rev., 1 p. Sept. 1948. 1.916 L612

#### PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

GOLDSTON, E. F., DAVIS, W. A., and CROOM, C. W. Soil survey, Jackson County, North Carolina. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Soil Survey. 1938(19), 87 p. Sept. 1948. 1 So32F

SALTER, R. M. The national land use and conservation policy. Washington? U. S. Bur. Plant Indus., Soils, and Agr. Engin., 1947. 11 p. 1.965 12Sa3

Address before the American Society of Animal Production, Chicago, Nov. 28, 1947.

SHEDD, C. K. Mechanical drying of corn on the farm. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Inform. Ser. 89, 20 p. Sept. 1948. 1.9 R531I

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Diagnostic characters of seed of the commercial species of *Agrostis* and certain species occurring incidentally with them, by A. F. Musil. Rev. Beltsville, Md. 1948. 5 p. 1.965 F2D54

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Vermiculite uses in building and horticulture, by E. English. Slightly rev. Beltsville, Md., 1948. 3 p. Ref. 1.965 A2V59

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. DIV. OF FARM BUILDINGS AND RURAL HOUSING. Homemade concrete blocks. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Inform. Ser. 56, rev., 7 p. Oct. 1948. 1.9 R531I

#### PRODUCTION AND MARKETING ADMINISTRATION

TRIGG, R. S. A look at grain and feed prospects. Washington, U. S. Prod. and Mktg. Admin., 1948. 9 p. 1.956 A2T73

Address before annual convention of the New Mexico Grain and Feed Dealers Association at Albuquerque, Oct. 18, 1948.

U. S. PRODUCTION AND MARKETING ADMIN. The function of the Government in marketing, by W. C. Crow. Washington, 1948. 5 p. 1.956 M34C88

U. S. PRODUCTION AND MARKETING ADMIN. Summary of "Agricultural Act of 1948." Washington, 1948. 6 p. 1.956 A2Su65

#### RURAL ELECTRIFICATION ADMINISTRATION

U. S. RURAL ELECTRIFICATION ADMIN. Suggested capital credits records. Washington, 1948. 4 p. 1.933 Su37

WICKARD, C. R. Meeting the power needs of rural people. Washington? U. S. Rural Electrification Admin., 1948. 6 p. 1.91 A2W63

Address at Hawick, Minn., Oct. 7, 1948, dedicating the new generating plant of Rural Cooperative Power Association, Maple Lake, Minn.

BRANNAN, C. F. A better agriculture—a better world. Washington, U. S. D. A., 1948. 10 p. 1.91 A2B73

Talk at the National Catholic Rural Life Conference, LaCrosse, Wis., Oct. 18, 1948.

BRANNAN, C. F. The farmer and the druggist. Washington, U. S. D. A., 1948. 9 p. 1.91 A2B73

Talk before the National Association of Retail Druggists, Atlantic City, Oct. 15, 1948.

BRANNAN, C. F. A fast-moving world. Washington, U. S. D. A., 1948. 12 p. 1.91 A2B73

Talk at testimonial dinner for Albert J. Loveland, Des Moines, Sept. 9, 1948.

BRANNAN, C. F. Outlook work in agriculture. Washington, U. S. D. A., 1948. 5 p. 1.91 A2B73

Address of welcome at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 11, 1948. Read by A. J. Loveland.

BRANNAN, C. F. The pledge to America's future. Washington, U. S. D. A., 1948. 8 p. 1.91 A2B73

Talk at dinner following agricultural conservation demonstration held in Westmoreland County, near Greensburg, Pa., Sept. 30, 1948.

BRANNAN, C. F. The public stake in grain and feed. Washington, U. S. D. A., 1948. 10 p. 1.91 A2B73

Talk before the Grain and Feed Dealers National Association at Chicago, Oct. 1, 1948.

BRANNAN, C. F. Putting the "bee" on soil erosion. Washington, U. S. D. A., 1948. 7 p. 1.91 A2B73

Talk at the All-Iowa Soil Conservation Field Day near Osceola, Iowa, Sept. 9, 1948.

LOVELAND, A. J. Refilling the ever-normal granary. Washington, U. S. D. A., 1948. 6 p. 1.91 A2L94

Talk at corn storage demonstration meeting, Clarion, Iowa, Oct. 7, 1948.

#### SOIL CONSERVATION SERVICE

BENNETT, H. H. A new day in agriculture. Washington, U. S. Soil Conserv. Serv., 1948. 14 p. 1.96 Ad62

Address, North Carolina State Garden Club Conservation Conference, Raleigh, Nov. 4, 1948.

BENNETT, H. H. Now the soil conservation job can be done. Washington? U. S. Soil Conserv. Serv., 1948. 8 p. 1.96 Ad62

Address at annual meeting of Friends of the Land, Oklahoma City, Oct. 7, 1948.

BENNETT, H. H. Soil conservation and flood control. Washington, U. S. Soil Conserv. Serv., 1948. 13 p. 1.96 Ad62

Address, Washita River Watershed Flood Control Dedication Celebration, near Cordell, Okla., July 8, 1948.

BENNETT, H. H. Soil conservation awards for all. Washington, U. S. Soil Conserv. Serv., 1948. 10 p. 1.96 Ad62

Address at Goodyear Soil Conservation Awards recognition luncheon, St. Cloud, Minn., Sept. 21, 1948.

BENNETT, H. H. Teamwork for soil conservation. Washington, U. S. Soil Conserv. Serv., 1948. 12 p. 1.96 Ad62

Address at conservation meeting of the Garden Club Federation of Massachusetts, Boston, Nov. 15, 1948.

BENNETT, H. H. The turning soil conservation tide. Washington, U. S. Soil Conserv. Serv., 1948. 11 p. 1.96 Ad62

Address at anniversary celebration, Tidewater Soil Conservation District, King William, Va., Nov. 3, 1948.

DOWDLE, H. J. Selling the soil conservation program. Washington, U. S. Soil Conserv. Serv., 1948. 6 p. 1.96 Ad6Do

Talk at State meeting of Soil Conservation Service personnel, Clemson, S. C., Aug. 6, 1948.

HOCKENSMITH, R. D. The use of land capability maps for rural real estate assessments. Washington, U. S. Soil Conserv. Serv., 1948. 5 p. 1.96 Ad6Ho

Address at annual conference on taxation sponsored by the National Tax Association, Denver, Oct. 4, 1948.



HOLTAN, H. N., and MUSGRAVE, G. W. Soil water and its disposal under corn and bluegrass. U. S. Soil Conserv. Serv. SCS-TP-68, 36 p. July 1947. 1.96 Ad6Tp

U. S. SOIL CONSERVATION SERV. Farm face-lifting demonstration; their history, how they're conducted, and what they accomplish. Washington, 1948. 5 p. 1.96 Ad6Far

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Marion County, Kansas. Manhattan, 1948. 25 p. 1.96 L22Phma

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Agronomy practices in soil and water conservation. Portland, Oreg., 1948. 6 p. 1.9609 Ag84

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Erosion damage (generalized) in the Pacific region. Portland, Oreg? 1948. Map. 1.9609 Er63

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the bunchgrass forage type in the South Palouse [Washington] Soil Conservation District, by G. L. Gilbert. Uniontown, Wash., 1948. 17 p. 1.9609 R1624

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the sand-bunchgrass and sagebrush-bunchgrass forage types in the East Benton [Washington] Soil Conservation District, by G. J. Chohlis and L. L. Tinsman. Kennewick, Wash., 1948. 20 p. 1.9609 R1623

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the sand-bunchgrass and sagebrush-bunchgrass forage types in the West Benton [Washington] Soil Conservation District, by G. J. Chohlis and L. L. Tinsman. Prosser, Wash., 1948. 20 p. 1.9609 R1622

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. [Soil conservation in Nevada.] Reno, 1947. 21 p. 1.9609 So37

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Strip cropping. Portland, Oreg., 1948. 6 p. 1.9609 St8

U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Plant living fences of multiflora rose. Milwaukee, 1948. 2 p. 1.9605 P695



**STATE AGRICULTURAL EXPERIMENT STATION  
PUBLICATIONS  
February 1949**

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona Agricultural Experiment Station, Tucson

ROBERTSON, C. E. Alfalfa production practices and cost comparisons. Ariz. Agr. Expt. Sta. B. 215, 22 p. Sept. 1948. 100 Ar4

BROWN, J. G., EMMONS, M., and KEENER, P. D. I. A bacterial disease of melons in southern Arizona; II. Virus diseases of melons. Ariz. Agr. Expt. Sta. B. 217, 13 p. Aug. 1948. 100 Ar4

KEMMERER, A. R., HARLAND, F. G., and DAVIS, R. N. Dried citrus by-products as feeds in the rations of dairy cows and calves. Ariz. Agr. Expt. Sta. B. 218, 7 p. Sept. 1948. 100 Ar4

Arkansas Agricultural Experiment Station, Fayetteville

HOFFSOMMER, H. Land tenure in the Southwestern States; a summary of significant findings of the Regional Land Tenure Research Project. Ark. Agr. Expt. Sta. B. 482, 31 p. Oct. 1948. 100 Ar42

MCNEAL, X. Rice losses during combining: a preliminary report. Ark. Agr. Expt. Sta. Rpt. Ser. 10, 8 p.-folder. Aug. 1948. 100 Ar42R

California Agricultural Experiment Station, Berkeley

BAILEY, S. F. The peach twig borer [Anarsia lineatella]. Calif. Agr. Expt. Sta. B. 708, 56 p. Ref. Sept. 1948. 100 C12S

ALCORN, G. B. The walnut situation, 1948. Calif. Agr. Expt. Sta. C. 386, 20 p. Sept. 1948. 100 C12S

CALIFORNIA agriculture 2(11), 16 p; (12), 16 p. Nov.-Dec. 1948. 100 C12Cag

HILGARDIA 18(11-14): 389-538. Sept.-Nov. 1948. 100 C12H

Connecticut (Storrs) Agricultural Experiment Station, Storrs

BRESSLER, R. G., JR. Efficiency of milk marketing in Connecticut. 10. Consumer demands and preferences in milk delivery. Conn. (Storrs) Agr. Expt. Sta. B. 257, 51 p. Ref. Apr. 1948. 100 C76S

HENRY, W. F., BRESSLER, R. G., JR., and FRICK, G. E. Efficiency of milk marketing in Connecticut. 11. Economies of scale in specialized pasteurizing and bottling plants. Conn. (Storrs) Agr. Expt. Sta. B. 259, 61 p. June 1948. 100 C76S

RIECKEN, H. W., JR., and WHETTEN, N. L. Rural social organization in Litchfield County, Connecticut. Conn. (Storrs) Agr. Expt. Sta. B. 261, 138 p. May 1948. 100 C76S

Delaware Agricultural Experiment Station, Newark

WOODMANSEE, C. W., BAKER, G. L., and GILLIGAN, G. M. Rhubarb extract as a preventative of browning of apple slices in home frozen storage. Del. Agr. Expt. Sta. C. 22, 6 p. July 1948. 100 D37S

Florida Agricultural Experiment Station, Gainesville

WYLIE, W. D. Tests of new insecticides for the control of aphids on celery in the Everglades. Fla. Agr. Expt. Sta. B. 446, 28 p. Aug. 1948. 100 F66S

DICKEY, R. D., DROSDOFF, M., and HAMILTON, J. Copper deficiency of tung in Florida. Fla. Agr. Expt. Sta. B. 447, 32 p. Ref. Sept. 1948. 100 F66S

CONOVER, R. A., WALTER, J. M., and STODDARD, D. L. Control of late blight of tomatoes in Florida. Fla. Agr. Expt. Sta. Press B. 652, 4 p. Aug. 1948. 100 F66S

LITZENBERGER, S. C., CHAPMAN, W. H., and CARVER, W. A. Oat and rye recommendations for northern Florida for 1948-1949. Fla. Agr. Expt. Sta. Press B. 653, 6 p. Sept. 1948. 100 F66S

HODGES, E. M., JONES, D. W., and KIRK, W. G. Winter clovers for south Florida flatwoods. Fla. Agr. Expt. Sta. Press B. 654, 8 p. Sept. 1948. 100 F66S

Georgia Agricultural Experiment Station, Experiment

MASSEY, Z. A., and FISHER, S. W. Supplementary protein and mineral feeding to beef cattle on summer pasture. Ga. Agr. Expt. Sta. C. 157, 7 p. Sept. 1948. 100 G29S

COWART, F. F., and SAVAGE, E. F. Commercial peach varieties in Georgia. Ga. Agr. Expt. Sta. Press B. 602, 3 p. Oct. 20, 1948. 100 G29P

FRY, B. O., and MURPHY, M. M. Planting and care of the young Muscadine grape vineyard. Ga. Agr. Expt. Sta. Press B. 603, 2 p. Nov. 1, 1948. 100 G29P

OLSEN, L. C. Making manure from organic residues. Ga. Agr. Expt. Sta. Press B. 604, 1 p. Nov. 5, 1948. 100 G29P

Georgia Coastal Plain Experiment Station, Tifton

BURTON, G. W. Coastal Bermuda grass. Ga. Coastal Plain Agr. Expt. Sta. C. 10, rev., 21 p. July 1948. 100 G292

STEVENSON, J. W., and SOUTHWELL, B. L. Sugarcane an economical winter roughage for the Lower Coastal Plain of Georgia. Ga. Coastal Plain Agr. Expt. Sta. C. 13, 11 p. Aug. 1948. 100 G292

GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Blue-mold control by spraying tobacco beds. Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 7, rev., 2 p. Oct. 1948. 100 G292M

GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Dusting tobacco plantbeds for blue-mold control. Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 42, rev., 1 p. Oct. 1948. 100 G292M

GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Green peach aphid [Myzus persicae] control in flue-cured tobacco. Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 53, rev., 2 p. Nov. 1948. 100 G292M

Idaho Agricultural Experiment Station, Moscow

IDAHO. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Idaho; fifty-fifth annual report, 1947/48. Idaho. Agr. Expt. Sta. B. 270, 68 p. July 1948. 100 Id1

Indiana Agricultural Experiment Station, Lafayette

WITHROW, A. P. Artificial lighting for forcing greenhouse crops. Ind. Agr. Expt. Sta. B. 533, 27 p. Ref. Aug. 1948. 100 In2P

INDIANA. AGRICULTURAL EXPERIMENT STATION. Inspection of commercial fertilizers. Ind. Agr. Expt. Sta. C. 341, 44 p. May 1948. 100 In2P

PROBST, A. H., and CUTLER, G. H. Hawkeye soybeans for Indiana. Ind. Agr. Expt. Sta. C. 343, 9 p. 1948. 100 In2P

Iowa Agricultural Experiment Station, Ames

NORTH CENTRAL LIVESTOCK MARKETING RESEARCH COMMITTEE. Price differentials for slaughter hogs. Iowa. Agr. Expt. Sta. B. P93, p. 55-128. Aug. 1948. 100 Io9

Kansas Agricultural Experiment Station, Manhattan

KANSAS. AGRICULTURAL EXPERIMENT STATION. Kansas farm management summary and analysis, 1947. Kansas. Agr. Expt. Sta. Agr. Econ. Rpt. 34, unpag. 1948? 281.9 K132

KANSAS. AGRICULTURAL EXPERIMENT STATION. Probable and suggested adjustments in Kansas agriculture for 1949. Kans. Agr. Expt. Sta. Agr. Econ. Rpt. 35, 41 p. Aug. 1948. 281.9 K132

U. S. Bureau of Agricultural Economics cooperating.



Kentucky Agricultural Experiment Station, Lexington

BYERS, G. B. Systems of farming for the Lower-Ohio-Valley crop-livestock region of Kentucky. Ky. Agr. Expt. Sta. B. 521, 52 p. June 1948. 100 K41

BONDURANT, J. H., and BISHOP, C. E. Farm wage workers in central Kentucky; a study of employment and income and related factors. Ky. Agr. Expt. Sta. B. 522, 30 p. July 1948. 100 K41

OYLER, M. D. Neighborhood standing and population changes in Johnson and Robertson Counties, Kentucky. Ky. Agr. Expt. Sta. B. 523, 48 p. Aug. 1948. 100 K41

KAUFMAN, H. F. Religious organization in Kentucky. Ky. Agr. Expt. Sta. B. 524, 44 p. Aug. 1948. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial feeds in Kentucky, including report on official feed samples analyzed, October-December, 1947. Ky. Agr. Expt. Sta. Regulat. B. 63, 35 p. Aug. 1948. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Quarterly report on official feed samples analyzed in January, February, and March, 1948. Ky. Agr. Expt. Sta. Regulat. B. 64, 32 p. Sept. 1948. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial fertilizers in Kentucky, 1947, including a report on official fertilizer samples analyzed, July-December, 1947. Ky. Agr. Expt. Sta. Regulat. B. 65, 26 p. Oct. 1948. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Quarterly report on official feed samples analyzed, April, May, and June, 1948. Ky. Agr. Expt. Sta. Regulat. B. 66, 27 p. Oct. 1948. 100 K41

Louisiana Agricultural Experiment Station, University Station, Baton Rouge

MONTGOMERY, J. P. Prices received by Louisiana farmers, 1909-1947. La. Agr. Expt. Sta. B. 429, 71 p. July 1948. 100 L93

STAMPER, E. R., ATKINS, J. G., JR., and GRAY, J. P. Helminthosporium blight of oats in Louisiana. La. Agr. Expt. Sta. B. 431, 14 p. Sept. 1948. 100 L93

CHESHIRE, A. R., and BARLOW, F. D., JR. Economic aspects of farm pastures in the Mississippi River Delta cotton area of Louisiana. La. Agr. Expt. Sta. Mimeog. C. 85, 44 p. Sept. 1948. 100 L935

Massachusetts Agricultural Experiment Station, Amherst

STAPLETON, H. N. Meteorological observations for August 1948. Mass. Agr. Expt. Sta. Met. Ser. B. 716, 4 p. Aug. 1948. 100 M38H

Michigan Agricultural Experiment Station, East Lansing

NELSON, R. Diseases of Gladiolus. Mich. Agr. Expt. Sta. Spec. B. 350, 63 p. June 1948. 100 M58S

HOFFER, C. R. Health and health services for Michigan farm families. Mich. Agr. Expt. Sta. Spec. B. 352, 54 p. Sept. 1948. 100 M58S

BALL, R. C. Relationship between available fish food, feeding habits of fish and total fish production in a Michigan lake. Mich. Agr. Expt. Sta. Tech. B. 206, 59 p. Ref. Mar. 1948. 100 M58S

WALLACE, G. J. The barn owl in Michigan; its distribution, natural history and food habits. Mich. Agr. Expt. Sta. Tech. B. 208, 61 p. Ref. Aug. 1948. 100 M58S

REINEKE, E. P., MCMILLEN, W. N., and BRATZLER, L. J. The effect of mild thyroprotein stimulation on growth in swine. Mich. Agr. Expt. Sta. Tech. B. 209, 19 p. Ref. Oct. 1948. 100 M58S

Minnesota Agricultural Experiment Station, University Farm St. Paul

MINNESOTA farm and home science 6: 16 p. Nov. 1948. 100 M668

Mississippi Agricultural Experiment Station, State College

RAGLAND, C. H., and OVERCASH, J. P. Orchard and small fruit culture in Mississippi. Miss. Agr. Expt. Sta. B. 450, 59 p. Nov. 1947. 100 M69

JOHNSON, H. W. Treating of soybean seed results in better stands. Miss. Agr. Expt. Sta. Serv. Sheet 411, 2 p. June 1948. 100 M69

GREEN, J. M. Oat varieties for the Yazoo-Mississippi Delta. Miss. Agr. Expt. Sta. Serv. Sheet 412, 2 p. Sept. 1948. 100 M69

GREEN, J. M. Wheat varieties for the Yazoo-Mississippi Delta. Miss. Agr. Expt. Sta. Serv. Sheet 413, 2 p. Sept. 1948. 100 M69

GRISSOM, P. H. Winter legume experiments for cotton production. Miss. Agr. Expt. Sta. Serv. Sheet 414, 2 p. Sept. 1948. 100 M69

MISSISSIPPI. AGRICULTURAL EXPERIMENT STATION. Highlights of the work of the Mississippi Experiment Station; sixtieth annual report, 1946/47, by R. Coleman. State College? 1948? 60 p. 100 M69

MISSISSIPPI farm research 11(10), 8 p; (11), 8 p. Oct.-Nov. 1948. 100 M67Mi

Nebraska Agricultural Experiment Station, Lincoln

LONNQUIST, J. H., HANWAY, J. J., and MCGILL, D. P. Nebraska corn performance tests, 1947. Nebr. Agr. Expt. Sta. C. 91, 13 p. Feb. 1948. 100 N27

New Hampshire Agricultural Experiment Station, Durham

SANBORN, B. G. Results of seeds tests for 1948. N. H. Agr. Expt. Sta. B. 374, 28 p. Aug. 1948. 100 N45

New Jersey Agricultural Experiment Station, New Brunswick

NEW JERSEY. AGRICULTURAL EXPERIMENT STATION. Science and the land; the 68th annual report, 1946-47. New Brunswick, 1947? 111 p. 100 N46S

New York (Cornell) Agricultural Experiment Station, Ithaca

ROLLINS, M. A. Relative cost of nutrients in a serving of food. N. Y. (Cornell) Agr. Expt. Sta. B. 845, 65 p. Oct. 1948. 100 N48C

NEWHALL, A. G., and LEAR, B. Soil fumigation for nematode and disease control. N. Y. (Cornell) Agr. Expt. Sta. B. 850, 32 p. Sept. 1948. 100 N48C

PAARLBERG, D. Prices of butter, lard, and cottonseed oil. N. Y. (Cornell) Agr. Expt. Sta. Mem. 281, 59 p. Oct. 1948. 100 N48C

New York (State) Agricultural Experiment Station, Geneva

TASCHENBERG, E. F. Hooded booms for grape spraying. N. Y. (State) Agr. Expt. Sta. B. 732, 34 p. Apr. 1948. 100 N48

North Dakota Agricultural Experiment Station, State College Station, Fargo

BIMONTHLY bulletin 10(6): 179-214. July/Aug. 1948. 100 N813B

Ohio Agricultural Experiment Station, Wooster

OHIO. AGRICULTURAL EXPERIMENT STATION. Farm science and practice; sixty-sixth annual report, 1946/47. Ohio. Agr. Expt. Sta. B. 674, 73 p. Feb. 1948. 100 Oh3S

MCBRIDE, C. G. State and Federal milk marketing orders in Cincinnati and Toledo, Ohio. Ohio. Agr. Expt. Sta. Res. B. 678, 49 p. Oct. 1948. 100 Oh3S

FARM and home research 33: 146-171. Sept./Oct. 1948. 100 Oh3S

Oklahoma Agricultural Experiment Station, Stillwater

FARLEY, H., and others. Anaplasmosis in Oklahoma cattle. Okla. Agr. Expt. Sta. B. B-323, 19 p. Sept. 1948. 100 Ok4

L. E. Foote, C. C. Pearson, and I. O. Kliever, joint authors.

OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. 1949 farm production prospects in Oklahoma. Okla. Agr. Expt. Sta. Mimeog. C. M-175, 27 p. Oct. 1948. 100 Ok4M

U. S. Bureau of Agricultural Economics cooperating.



CURRENT farm economics 21(5): 95-116.  
Oct. 1948. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

HARVEY, E. W. Preservation of seafoods.  
Oreg. Agr. Expt. Sta. C. 164, rev., 16 p. Mar. 1948.  
100 Or3

SCHUH, J., and MOTE, D. C. The oblique-banded leaf roller [*Archips rosaceana*] on raspberries.  
Oreg. Agr. Expt. Sta. Tech. B. 13, 43 p. Apr. 1948.  
100 Or3S

Pennsylvania Agricultural Experiment Station, State College

PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Science for the farmer; supplement 1 to the 61th annual report. Pa. Agr. Expt. Sta. B. 502, sup. 1, 12 p. Oct. 1948. 100 P383

Contents: Country churches reflect changes in population and in agriculture, by W. G. Mather, p. 2-3; Christmas trees keep well when stored in proper way, by W. C. Bramble and H. H. Chisman, p. 3, 10; More pork from less feed, by R. C. Miller and J. L. Gobble, p. 4-5, 9; Orchard grass-ladino clover pasture productive under careful management, p. 6-7; Penicillin and streptomycin aid artificial breeding [of dairy cattle], by J. O. Almquist, p. 8-9; Eggplant hybrids produce high yields of uniform fruit, by M. L. Odland, p. 11; Automatic poultry feeder saves much time and labor, by D. C. Sprague, G. O. Bressler, and A. S. Mowery, p. 11-12.

MATHER, W. G. The use of health services in two southern Pennsylvania communities. Pa. Agr. Expt. Sta. B. 504, 38 p. July 1948. 100 P381

Puerto Rico Agricultural Experiment Station, Rio Piedras

RODRIGUEZ, J. P. La soya en Puerto Rico. Puerto Rico (Rio Piedras). Agr. Expt. Sta. B. 75, 24 p. Oct. 1947. 100 P83

VAZQUEZ CALCERRADA, P. B. Relaciones de los socios en una cooperativa de venta. Puerto Rico (Rio Piedras). Agr. Expt. Sta. B. 76, 62 p. Mar. 1948. 100 P83

Rhode Island Agricultural Experiment Station, Kingston

RHODE ISLAND. AGRICULTURAL EXPERIMENT STATION. 60th annual report, 1947. R. I. Agr. Expt. Sta. Contrib. 722, 72 p. Mar. 1948. 100 R34S

DEFRANCE, J. A. Weed-free compost and seedbeds for turf. I-III. R. I. Agr. Expt. Sta. Misc. P. 31, rev., 15 p. May 1948. 100 R34M

I. A method of destroying weed seeds in compost; II. A suggested method for field preparation of sterilized compost; III. Preparation of weed-free seedbeds for turf.

South Carolina Agricultural Experiment Station, Clemson

MITCHELL, J. H., VAN BLARICOM, L. O., and RODERICK, D. B. The effect of canning and freezing on the carotenoids and ascorbic acid content of peaches. S. C. Agr. Expt. Sta. B. 372, 11 p. Ref. June 1948. 100 So8

CLOANINGER, B. D. Inspection and analysis of commercial fertilizers. S. C. Agr. Expt. Sta. B. 375, 33 p. Nov. 1948. 100 So8

Texas Agricultural Experiment Station, College Station

LYLE, E. W., and others. Control of cotton root rot by sweetclover in rotation. Tex. Agr. Expt. Sta. B. 699, 21 p. Ref. July 1948. 100 T31S  
A. A. Dunlap, H. O. Hill, and B. D. Hargrove, joint authors.

GABBARD, L. P., and CHERRY, R. G. Trend of taxes on farm and ranch real estate in Texas, 1890-1946. Tex. Agr. Expt. Sta. B. 702, 34 p. July 1948. 100 T31S

SMITH, H. P., and JONES, D. L. Mechanized production of cotton in Texas. Tex. Agr. Expt. Sta. B. 704, 62 p. Sept. 1948. 100 T31S

YOUNG, P. A. Methods of raising tomatoes profitably in east Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1133, 4 p. Sept. 20, 1948. 100 T31P

WILLIAMSON, M. N., and ROGERS, R. H. Economics of cotton harvesting, Texas High Plains, 1947 season. Tex. Agr. Expt. Sta. Prog. Rpt. 1134, 19 p. Oct. 1, 1948. 100 T31P

SOUTHERN, J. H., and MOTHERAL, J. R. Texas farm and ranch land prices, 1946-47. Tex. Agr. Expt. Sta. Prog. Rpt. 1135, 2 p. Oct. 12, 1948. 100 T31P

Washington Agricultural Experiment Station, Pullman

NEUBERT, A. M., and others. Processing Washington-grown freestone peaches. Wash. Agr. Expt. Sta. C. 63, 38 p. Ref. July 1948. 100 W275  
J. H. Schultz, C. L. Bedford, and G. H. Carter, joint authors.

Wisconsin Agricultural Experiment Station, Madison

DUFFEE, F. W., and BRUHN, H. D. Mow drying of chopped & long hay. Wis. Agr. Expt. Sta. Stencil B. 5, 15 p. May 1948. 100 W75S

MORTENSON, W. P. "Market outlets" for dry whole milk. Wis. Agr. Expt. Sta. Stencil B. 7, 50 p. June 1948. 100 W75S

MCNALL, P. E., and ANDERSON, H. O. Small poultry flocks on the farm can be made to pay. Wis. Agr. Expt. Sta. Stencil B. 8, 5 p. Aug. 1948. 100 W75S

Wyoming Agricultural Experiment Station, Laramie

WILLARD, H. S. Effect of Holstein birth-weight on calf gain and final weight. Wyo. Agr. Expt. Sta. B. 286, 14 p. Ref. Aug. 1948. 100 W99



STATE AGRICULTURAL EXTENSION SERVICE  
PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona University, College of Agriculture, Agricultural Extension Service, Tucson

LINCOLN, R. Take care of your pressure canner. Ariz. Agr. Col. Ext. C. 140, 6 p. July 1948. 275.29 Ar42

LINCOLN, R. Why not make sauerkraut? Ariz. Agr. Col. Ext. C. 141, 8 p. Aug. 1948. 275.29 Ar42

CHURCH, H. Your sewing machine attachments. Ariz. Agr. Col. Ext. C. 143, 8 p. Aug. 1948. 275.29 Ar42

POWERS, H. B. Home curing of dates. Ariz. Agr. Col. Ext. C. 144, 7 p. Aug. 1948. 275.29 Ar42

California University, College of Agriculture, Agricultural Extension Service, Berkeley

DODSON, E., and REIS, R. Making a coat. Calif. Agr. Col. Ext. C. 145, 22 p. Aug. 1948. 275.29 C12C

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Citrus production cost and management analysis, San Diego County. Berkeley? 1948? 15 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Colusa County rice management study, 1947. Berkeley? 1948? 10 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. First annual report of the Scott Valley beef management and land utilization study for 1947, including data on the Klamath National Forest. Berkeley? 1948. 10 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Fresno County turkey meat study, 1947. Berkeley? 1948. 6 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Lemon management study. Santa Barbara, 1948. 13 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 alfalfa seed production study, Imperial County; an analysis of production, yields, income and costs. Berkeley? 1948. 5 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 poultry management cost study, Riverside County. Berkeley? 1948. 6 p. 275.29 C12En

Connecticut University, College of Agriculture, Agricultural Extension Service, Storrs

JONES, R. E. The Connecticut 12 x 12 colony brooder house. Conn. Agr. Col. Ext. B. 344, rev., 12 p. Sept. 1947. 275.29 C76B

COLE, W. R., ESSELEN, W. B., JR., and FELLERS, C. R. Home canning; fruits, vegetables, poultry, meat, fish, and special products. Conn. Agr. Col. Ext. Leaflet 406, 40 p. June 1948. 275.29 C76B

Delaware University, School of Agriculture, Extension Service, Newark

GORDY, J. F., and BAKER, H. R. Keep your flock pullorum clean. Del. U. Agr. Ext. C. 51, rev., 11 p. Apr. 1947. 275.29 D37C

Florida University, College of Agriculture, Agricultural Extension Service, Gainesville

FLORIDA. LIVESTOCK LOSS PREVENTION COMMITTEE. Tribulations of Porky, the pig; a picture story of how to avoid losses in handling hogs. Fla. Agr. Col. Ext. C. 86, 16 p. Oct. 1948. 275.29 F66C

Georgia University, College of Agriculture, Agricultural Extension Service, Athens

GEORGIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Farming for freedom; 1947 annual report. Ga. Agr. Col. Ext. B. 545, 30 p. May 1948. 275.29 G29B

Hawaii University, Agricultural Extension Service, Honolulu

DICKERSON, L. B. Household storage; home made clothes closets. Hawaii. U. Agr. Ext. Home Econ. C. 220, 2 p. July 1948. 275.29 H312

DICKERSON, L. B. The know how of cleaning varnished or stained surfaces and upholstered furniture. Hawaii. U. Agr. Ext. Home Econ. C. 221, 3 p. July 1948. 275.29 M312H

DICKERSON, L. Upholstered footstool. Hawaii. U. Agr. Ext. Home Econ. C. 222, 6 p. July 1948. 275.29 H312H

DICKERSON, L. B. Chairs with the "new look." Hawaii. U. Agr. Ext. Home Econ. C. 223, 6 p. July 1948. 275.29 H312

NELSON, R. N. The joy of entertaining. Hawaii. U. Agr. Ext. Home Econ. C. 224, 6 p. Aug. 1948. 275.29 H312H

NELSON, R. N. Low-cost meals with high appeal. Hawaii. U. Agr. Ext. Home Econ. C. 225, 4 p. Aug. 1948. 275.29 H312H

Illinois University, College of Agriculture, Extension Service, Urbana

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Soybean Processors' Conference, University of Illinois, April 25, 1947. Ill. Agr. Col. Ext. AG1348, 32 p. Dec. 30, 1947. 275.29 IL62Pag

DETURK, E. E. Fertilizers, fertilizer materials and rock phosphate used in Illinois during 1947. Ill. Agr. Col. Ext. AG1360, 3 p. Mar. 1948. 275.29 IL62Pag

HEUSINKVELD, D. Red clover for Illinois. Ill. Agr. Col. Ext. C. 627, 24 p. Sept. 1948. 275.29 IL62C

BULL, S. Veal for the table. Ill. Agr. Col. Ext. C. 629, 23 p. Sept. 1948. 275.29 IL62C

HERREID, E. O. Testing milk and milk products for fat and total solids. Ill. Agr. Col. Ext. C. 630, 80 p. Ref. Sept. 1948. 275.29 IL62C

IWIG, D. J., and MCKEE, M. A. Pictures on your walls. Ill. Agr. Col. Ext. HE-P66, 8 p. Jan. 1948. 275.29 IL62Phep

Indiana - Purdue University, Agricultural Extension Service, Lafayette

INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Indiana crops and livestock. Purdue U. Agr. Ext. Ind. Crops and Livestock 277, 4 p. Oct. 1, 1948. 252.28 Ag8

Kansas State College of Agriculture and Applied Science, Extension Service, Manhattan

FERGUSON, J. M., and KNIGHT, R. S. Con-tour farming. Kans. State Col. Agr. Ext. C. 67, 20. 1947. 275.29 K13Ex

AMSTEIN, W. G., and PICKETT, W. F. Spray schedule for home fruit production. Kans. State Col. Agr. Ext. C. M-34, 6 p. 1947. 275.29 K13ExM

Maine University, College of Agriculture, Agricultural Extension Service, Orono

MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. How to pick potatoes faster and easier. Maine. Agr. Col. Ext. C. 229, 6 p.-folder. Sept. 1947. 275.29 M281C



BURGESS, C. The modern kitchen cupboard. Maine. Agr. Col. Ext. C. 234, 4 p. 1947? 275.29 M281C

MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Let electricity handle your potatoes. Maine. Agr. Col. Ext. C. 240, 6 p.-folder. Sept. 1947. 275.29 M281C

BRIWA, K. E. Easy meals for home folks. Maine. Agr. Col. Ext. C. 243, 4 p. Jan. 1948. 275.29 M281C

FOSS, E. W. Tank-type fire truck for your community fire department. Maine. Agr. Col. Ext. C. 244, 6 p.-folder. Jan. 1948. 275.29 M281C

FOSS, E. W. Fight the fire on your farm. Maine. Agr. Col. Ext. C. 245, 6 p.-folder. Jan. 1948. 275.29 M281C

Maryland University, College of Agriculture and Home Economics, Extension Service, College Park

BENDER, E. K. Producing more and better spinach in Maryland. Md. Agr. Col. Ext. Hort. Ext. Mimeog. 32, 6 p. Aug. 1948. 275.29 M36Em

BENDER, E. K. Preparation of vegetables for exhibit. Md. Agr. Col. Ext. Hort. Ext. Mimeog. 30, 4 p. Dec. 1947. 275.29 M36Em

MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Extension work, 1947; thirty-third annual report. College Park, 1948? 23 p. 275.29 M36

MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. List of available publications. College Park, 1948. 25 p. 275.29 M36Ls

Massachusetts State College, Extension Service, Amherst

CENTRAL VERMONT PUBLIC SERV. CORPORATION. The use of soil heating cable for protection of water systems. Mass. U. Agr. Ext. Engin. Ext. Ser. 123, rev., 3 p. Dec. 1947. 275.29 M381En

PAGE, E. C. Your first coat. Mass. U. Agr. Ext. Leaflet 245, 20 p. Aug. 1948. 275.29 M381L

Michigan State College of Agriculture and Applied Science Extension Division, East Lansing

LUNDIN, P. G. Advanced handicraft club work. Mich. State Col. Agr. Ext. Club B. 11C, rev., 166 p. Sept. 1947. 275.29 M58C

Missouri University, College of Agriculture, Agricultural Extension Service, Columbia

WINNER, E. B., and UREN, A. W. Raising turkeys. Mo. Agr. Col. Ext. C. 562, 23 p. July 1948. 275.29 M69C

MISSOURI. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Save feed and food. Columbia, 1948? 6 p.-folder. 275.2 M69Sa

MISSOURI. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Sow winter barley for fall pasture and early grain. Columbia? 1948. 6 p.-folder. 275.2 M69Sow

Nebraska University, College of Agriculture, Agricultural Extension Service, Lincoln

OLSON, E. A., and YUNG, F. D. Conditioning and storing corn. Nebr. Agr. Col. Ext. E. C. 738, rev., 16 p. Sept. 1948. 275.29 N272Ex

New Hampshire University, College of Agriculture and the Mechanic Arts, Extension Service, Durham

ALLEN, F. E., BOYNTON, C. H., and SMITH, R. W. New Hampshire brucellosis control program. N. H. Agr. Col. Ext. C. 290, 12 p. Sept. 1948. 275.29 N45C

New Mexico College of Agriculture, Extension Service, State College

NEW MEXICO. COLLEGE OF AGRICULTURE. EXTENSION SERV. Selecting bulls to produce heavier calves and at the same time meet packer demands, by R. D. Rasmussen. State College, 1948. 3 p. 275.29 N463En

New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

ASDELL, S. A. The reproduction of farm animals. N. Y. Agr. Col. Cornell Ext. B. 305, rev., 27 p. June 1948. 275.29 N48E

BRUNETT, E. L., and LEVINE, P. P. Poultry diseases: pullorum disease. N. Y. Agr. Col. Cornell Ext. B. 337A, rev., 8 p. Jan. 1948. 275.29 N48E

HOFFMAN, M. B. Strawberry culture. N. Y. Agr. Col. Cornell Ext. B. 404, rev., 39 p. Sept. 1948. 275.29 N48E

STALEY, H. K. Hand-finishing your dress. N. Y. Agr. Col. Cornell Ext. B. 739, 4 p. Oct. 1948. 275.29 N48E

LEVINE, P. P. The avian leukosis complex. N. Y. Agr. Col. Cornell Ext. B. 740, 8 p. Aug. 1948. 275.29 N48E

HARRIS, K. W., and WOOD, M. A. Community meals. N. Y. Agr. Col. Cornell Ext. B. 743, 31 p. Sept. 1948. 275.29 N48E

WYLIE, M. Suggestions for Cornell child and adult study clubs. N. Y. Agr. Col. Cornell Ext. B. 745, 27 p. June 1948. 275.29 N48E

DELANY, D., and CAULUM, V. A. Farm women look at the Home Bureau; Chemung County, New York. N. Y. Agr. Col. Cornell Ext. B. 754, 20 p. Sept. 1948. 275.29 N48E

HART, V. B., and KENDRICK, M. S. 1948 income-tax returns; suggestions for farmers. N. Y. Agr. Col. Cornell Ext. B. 756, 31 p. Nov. 1948. 275.29 N48E

PALMER, E. L. Let's measure things. N. Y. Agr. Col. Ext. Cornell Rural School Leaflet 42(1), 63 p. Sept. 1948. 275.29 N48

Ohio State University, College of Agriculture, Agricultural Extension Service, Columbus

FERGUSON, C. M., JONES, E., and DODD, D. R. Pastures for poultry; a home-grown vitamin program for Ohio poultrymen. Ohio. Agr. Col. Ext. B. 269, rev., 4 p. Apr. 1948. 275.29 Oh32

OHIO. POULTRY FEED CONFERENCE BOARD. Ohio poultry rations, 1948. Ohio. Agr. Col. Ext. Poultry Pointers 96, 8 p. Dec. 1947. 275.29 Oh32Pp

FERGUSON, C. M. Spring plans for fall [poultry] profits. Ohio. Agr. Col. Ext. Poultry Pointers 97, 4 p. Feb. 1948. 275.29 Oh32Pp

INGALLS, W. L. Newcastle disease. Ohio. Agr. Col. Ext. Poultry Pointers 98, 4 p. Mar. 1948. 275.29 Oh32Pp

MOYER, D. D. Good laying house equipment reduces labor. Ohio. Agr. Col. Ext. Poultry Pointers 99, 4 p. June 1948. 275.29 Oh32Pp

OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Forced ventilation of partially cured hay in mow or stack by R. C. Miller. Columbus, 1948. 11 p. 275.2 Oh32Fv

Oregon State College, Federal Cooperative Extension Service, Corvallis

GRUETZMACHER, L. C., ONSDORFF, T., and MACK, M. C. Canning for home food preservation. Oreg. State Col. Ext. B. 689, 38 p. July 1948. 275.29 Or32B

Rhode Island State College, Extension Service, Kingston

DOLAN, D. D., and CHRISTOPHER, E. P. Vegetable gardens. R. I. State Col. Ext. Misc. C. 49, rev., 7 p. Apr. 1948. 275.29 R34M

Washington State College, Extension Service, Pullman

WASHINGTON. STATE COLLEGE. EXTENSION SERV. Do's and don'ts for Delicious apples. Wash. State Col. Ext. C. 124, 7 p. Sept. 1948. 275.29 W27C

West Virginia University, College of Agriculture, Agricultural Extension Service, Morgantown

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Garden to save wheat, save meat, save the peace, and help win the battle against inflation. Morgantown, 1948? 8 p.-folder. 275.2 W52Gs



Wisconsin University, College of Agriculture, Agricultural Extension Service, Madison

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Dairying as a 4-H project. Wis. Agr. Col. Ext. C. 4-H 59, 40 p. June 1948. 275.29 W75Cf

MOORE, J. G. Spring bulbs for the home grounds. Wis. Agr. Col. Ext. Stencil. C. 192, rev., 10 p. Aug. 1948. 275.29 W75B

STILLMAN, G., and DENNETT, L. Freezing prepared or precooked foods. Wis. Agr. Col. Ext. Stencil C. 278, 5 p. June 1948. 275.29 W75B

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. You can be a 4-H Club member. Laramie? 1948? 6 p.-folder. 275.2 W99y

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION DIV. Time table for canning at high altitudes, by E. J. Smith. Laramie, 1947? 2 p. 275.2 W99Ti

Wyoming University, College of Agriculture, Agricultural Extension Service, Laramie

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Wheat for livestock feeding. Wis. Agr. Col. Ext. Stencil C. 279, 8 p. Aug. 1948. 275.29 W75B



# AUTHOR INDEX

Item	Item	Item	Item	Item
Aaltonen F 15883	Alberta U Dept of Ext 15745	American Pulpwood Assoc 10753	Antón Cano E 15623	Atkins F C 7844-7
Aamondt O S 8580-1	Albertario P 14532	Amer Soc for Hort Sci 8707	Antonelli G 15624	Atkins J G Jr 7946
Aas J 9831 14437	Albertini F 15621	American Soc of Agr Engin 14533	Antoniani C 14275	Atkins M D 9839
Aasaren O 14061	Alberts H W 9610	Amer Spice Trade Assoc 13733	Antunes Filho H 9612	Atkins R E 7736
Aasmundstad K S 9832	Albrecht F 10406	American Standards Assoc 10685	Anwyl J E 12407	Atkinson E 11374
Aasvejen H 14272	Albrecht W A 9763	Ames F G 10447	Anzalaz F A 9613	Atkinson J D 8164
Abbott C E 12803	Alcorn G B 14273	Ames O 9028	Apice M D' 10947	Atkinson N 13640
Abbott S W 9020	Alder E 10638	Amesti L de 11641	Appel V O 13695	Attoe O J 9724
Abd-el-malek Y 13900	Alderman W H 8768	Amidon B 10258	Aragon Montejo J 9995 15281	Aubert G 9775-6
Abel K R 11251	Alderson J J 9023-4	Amidon G B 10308	Aramendi M C 10853	Aubin L 8165
Abell J 10826	Aldrich W W 8863	Aminoff F 10472	Arant W L 9614	Audet L P 7561 10348
Aberg E 8457 8582	Alemán J O 7841	Amir A 15278	Arbogast C F 10423	Audier 9840
Abi 10945	Alemanv Solá F 15622	Amizet L 9009	Arbuckle W S 14027	Audras G 12251
Abmeyer E 7840	Aleshin S N 9773	Amorim C G de 15723	Arcangeli A 12547	Audus L J 8166-7
Abonnenc E 12769-71 12705	Alexander A K S 11660	Amosov N 15279	Arceneaux G 8163	Aufferheide R 10448
Abrahamsen M A 13534	Alexander J A 16175	Amschler J W 14668	Archer H G 15749	Aufhammer G 8460
Abrahamsen S 13837	Alexander W G 13292	Amsden J 11902	Archer R C 13240	Aull G H 15285
Achard J 8679	Alexander W P 7702	Amsler M 9029	Arches M D' 11661	Aumeran 15999
Ackerman F E 14130	Alexandrowicz S 13358	Amstein W G 12281	Arditti R 8393	Ausman L H 13110
Ackerson C W 8398	Alfa-Laval Co 13192	Anadon Pintó R 14916	Arens G J 9837	Australia Bur of Agr Econ 14670
Acosta L 11589	Algemeene Nederlandsche Zuivelbond 13838	Ancheschi 13839	Argentine Republic Ministerio de Agricultura 15282	Australia Council for Scientific and Indus Res Div of Forest Prod 10723
Actis Grande J L 13949	Algeus S 8161	Anchel M 7557	Ariz State Land Commr 15453	Australia Dairy Produce Bd 13841
Adair W 15565 15620	Allard H A 15086	Ancheta P M 15750	Arle H F 9530 9575	Australia Dept of Health 10948
Adams E 10827	Allard H F 15086	Andalò G 14131 15884	Armer A A 13258	Auwers G van der 8936
Adams J E 13108	Allard R W 8018	Anders H 15747	Armero L de 9774	9036 16001
Adams M O 10446	Allard D R 11253	Andersen T V 11103	Armes M J 15566	Auwermeulen J van der 9533
Adams R W 15515-6	Allen F E 10946	Anderson A L 12221	Armour and Co Labs Chem Res and Devlpmt Dept 11256	Avens A W 13587
Adams S L 14637	Allen F W 8196	Anderson E J 12510	Armstrong J B 7735	Avery A G 8106
Adamson R G 12220	Allen J P 10514	Anderson A W 9030	Armstrong K 13735	Avery C 12222
Adamson R S 8029	Allen M 9993	Anderson C W 13901	Armstrong W D 12661	Avila C D' 15886
Adamson W F 9021	Allen M W 8025	Anderson E 14534	Arnason G 13464	Z 7848
Adcock W H 14438	Allen N 14748	Anderson G W 11192	Arnason H 13266	Avni J 13737
Adelaide Chamber of Com 15998	Allen N N 11373	Anderson H C 14132	Arnborg T 10347	Avtonomov A I 8549-50
Adelbert A G L 7642	Allen R G D 13609	Anderson H O 11952	Arndt C H 11192	Axelsson C A 8551
Admont P H 12280	Allen T C 8192	Anderson J A 8548	Arneson E A 15283	Axelsson F 9394
Adsuar J 8005-6	Allgyer J R 13535	Anderson J O 11757	Arnold C A 7560	Axelsson J 10879
Aegerter E 11100	Allhelmen H 10346	Anderson M L 10259	Arnold D L 10474	11193 12140
Aepfl D C 8462	Allin B 15423	Anderson P A 14762	Arnold E 12831	Axworthy R 11799-800
Agapov S P 9390	Allington W B 7734	Anderson R F 12591	Arnold E H 13417	Aykroyd W R 16104
Agarwal G D 15234	Allison H D 9025	Anderson S C 9031	Arnold G 12863	Ayre A G 15454
15685 15744	Allison J H 10386	Anderson W R 10407	Arnold R E 9032	Ayres V 13314
Agarwal O P 10785	Allison J R 14479	Anderson W S 9392	Arnold-Forster W 9033	Ayrshire Cattle Herd Book Soc of Australasia 11375
Agarwal R R 9798	Allison W 13265	Andersson A 15452	Arnould C 13109	Azevedo L H P 8297
Agenjo R 12912-13	Allmendinger D F 8309	Andersson A 7694	Arnst A 10506	Azpiazu 13111
Agerberg L 10216	Allport N L 13503	Andersson N 11254	Arquie E 8365	Azzi G 16252
Agete F 15032	Allred B W 8586-87	Andersson O 10473	Arriagada Herrera J 15284	Baak 10475 10554
Aggarwal J S 9608	Allred C E 14843	Andersson Y 14440	Arrington L R 13902	Baas J 12805
Agliany J 9022	Allwood E 14265	Andrade H R de 14274	Arroyo R 13736	Babbitt D 11105
Agrell I 13039	Alman R K 8706	Andral M L 12406	Arruda A F de 8708	Bachman K L 15625
Agricultural Workers' Fed (So Africa) 15033	Almeida D 8680	Andre A 9836	Arruda Veiga A de 10374	15656
Aguliar J d' 12590	Almquist J O 11102	Andreasi F 11593	Arthur J C 14844	Bachofner C S 8168
Ahlfeld H 15034	Aloi L 14994-5	Andreevskaf E G 13734	Ascoli F D 14988	Backer C A 7643
Ahlgren G H 9605	Alp H H 11901	Andrén F 14996	Asdell S A 10854	Bäckström C C 9997
Ahlmann S W 13918	Alpe A 13312	Andrén T 10373	Asghar A G 9996	Bacon L E 11748
Ahlström B 9833	Alpine Gard Soc 9026	Andrés J 11255	Ashbrook F G 11537	Badell Rolg L 8937
Ahmad G U D 9609	Altara I 10852	Andrés J M 8458	Ashby E 8058 16139	Bader F 10218
Ahmad N 14178	Althouse P M 14849	Andrews D M 7558	Ashton G C 10878	Badwar R L 7671
Ahrens C 13040	Altschul A M 14844	Andrews H N Jr 7559	Ashworth U S 13927	Baert J 15567
Aicher L C 8583	Alvan E K 8160	Andrews H W 12690	Askew H O 9838	Bagenal N B 14276
Aimerito G C 11252	Alvaré M de 15277	Andrews J M 12765	Askwith W E 9034	Bagge F 13536
Ainsley F C 14813	Alvarez Esteban J 13732	Andrews J S 12172	Aslander A 9531	Bagge H 8552
Airan J W 10188	Amado Blanco L 15035	Andrews T F 8030	Asmundson V S 11662	Bagnasco A 11289
Aitken T R 14535	Amata F d' 8057	Andrews W B 10189	Aspengren H 9532	Bahmanyar M 12548
Åkerberg E 8584	American Camellia Soc 9027	Andrihet P 8459	Aspesaeter O 9035	Bailey A 10754
Åkerblom E 11555	American Forest Prod Indus 10257	Andrus J R 15124	Aspiras L 15750	Bailey F 14133 15739
Åkerman A 8426	Amer Forestry Assoc 16138	Annfinnikov M A 12914	Asplin F D 11798	Bailey J S 9534
10217 15275	American Paper and Pulp Assoc 10751	Angeles O 7977	Assenowa K 13941	Bailey J W 11194
Akesson N B 9526	American Pulp and Paper Mill Supts Assoc 10752	Angell G N 9611	Assoc of Brit Insecticide Mfrs 12282	13360 14759
Alabouvette L 8585		Angelo A D' 15885	Assche F van 9393	Bailey M V 8553
Alban E K 9527		Angermair M 11820	Asthana R P 7842	13241
Albaugh R 11101		Anhoury J 15280	Astrego J J 7843	Bailey N S 12691
Albert C L 9528		Aniansson G 13313	Atchley F 13610	12864
10168		Anthony E L 15748	Atkins C D 14411	Bailey S F 12915
Alberta Dept of Agr Ext Serv 13639		Antoine 8162		13076
14813		Antolisei G 9994		
Alberta Dept of Agr Field Crops Br 9391				
Alberta Hort Adv Com 8705				
Alberta Prov Adv Fert Com 9834				



Item	Item	Item	Item	Item	Item
Bain J P 10732	Barker R B 12253	Beach G 9249	Benne E J 13521	Bhattacharva S 12695	
Bainbridge C G 13447	Barklev P 13428	Beach J R 11805	Bennett A L 10828	Bhaumik H D 9701	
Bainer R 14997	Barkworth H 13193	Beacher J H 12971	Bennett B 13444	Bhimmeswar B 8060	
Baines A R 14134	Barlow F D Jr 11196	Beal G M 13950	Bennett B H 13844	Bianchedi A 14141	
Bair R 8461	15579	Beament J W L 12567	Bennett H H 10096-105	Bianchi G 13942	
Baker C E 9815	Barlow F S 15627	Bear E M 8865	Bennett H W 10881	Bible B L 15751	
Baker G 10668	Barnes A S L 10309	Bear F E 9843	Bennett J A 11109	Bickoff E M 13514	
Baker G L 14525	Barnes E E 10227	Beattie J 16057	Bennett L L 11447	Bieberdorf G A 12938	
Baker H R 11801	Barnes W C 9395	Beattie J H 8271	Bennett R R 8696	Bielanski W 11113	
11826	Barnett R J 8864	Beattie J M 8174	Bennetts H W 11263	Bielinska K 11737	
Baker K F 7703 7849	Bärnheim C 8664	Beauchamp C E 8681	Bennion J E 11395	Bielinski K 11737	
Baker Mrs J S 9037	Barnstedt 14672	Beaudin O 15286	Benson L 7646	Biely J 11845	
Baker M L 11078	Baró y Zorrilla D F 10427	Beaufoy E M 12917	Benson C W R 15724	Bierman H H 15107	
Baker O E 15991	13044	13044	Benson N 9867	Biffen W 9400 9050	
Baker R H 13077	Baron M 13914	Beaufoy S 12917 13044	Benson N R 8185	11198	
Baker T A 11195	Barr A T 14918	Beauvallet M 11461	Benson P E 9845	Bigl F 8665	
Baker W A 12916	Barr W F 12592	Becattini V 15630	Bentley G M 12284	Biland M 9999	
Baker W K 12692	Barranca J S 10233	Bechnyne J 12593-5	Benzies W 14366	Bille O 9051-3	
Bakhireva A Z 8565	Barraza Q O 14278	Beck A B 11263	Benzoni C 11110	Binaghi G 12597	
Bakos K 11820	Barret A 14029	Beck J D 11261	12035 14673	Birckel L 9401	
Balachowsky A 12806	Barrett H B 10349	Beck J R 13467 14998	Bequaert J C 12866	Bird J F 12918	
Balazuc J 12252	Barrons K C 9535	Becker G 8108	Beranek J 10950	Bird J N 8592	
Balch R T 15036	Barros W D de 10095	Becker M 10880	Berardo 14367	Birdsall J E 8593-4	
Baldacci E 7737 7850	Bartel A T 8462	Becker M E 14414	Beresford R 11197	Birdsong W 14848	
Baldacci M 9615	Bartels L V 13838	Becker R B 13843	Berg B van den 11905-6	Birenbaum M B 9402	
Baldocchi M D 10232	Bartenev F 8589	Beckley V A 12596	Berg G 7740	Birkeland C J 8866	
Baldrati I 14277	Bartholomew E T 8171	Beckman H J 13362	Berg H 10724 14441	Birnbeck S 15752	
Baldvinsson I 13361	Bartholomew J W 13641	Beckwith R S 13519	Berg L R 11736	Birt and Co 14142	
Bildwin J D 14917	14011	Bedard J A E 11806	Berg S G 15452	Bischoff W H 7978	
Balestrini G 14845	Bartlett R W 12558	Bedenbaugh P G 14815	Bergamino Giuria A 14847	Bishop C E 15187	
Ball C D 13521	Bartlett S 12283	Bedford C L 14499	11111	Bishop J C 9403	
Ball E 8059 12408	Bartolo A 9039	Bedouet J 9398	12173 14674	Bishop W H 12174	
Ball R C 16140	Barton G 9040	Beck A op de 9044	Berge S 11111	Bissell T L 12598	
Ball W H 12260	Barton L V 9040	Beek J C van 13838	12173 14674	Bissonnet A P 15290	
Ballani B 11257	Barton O A 15568	Beekenkamp G 8019	Berger G 9700	Biswal G 11266	
Ballard A C 7695	Bartrum D 9041	Beeler M N 13078	Berghen C V 7647	Biswell H H 11207	
Ballhorn R D 9841	Basak K C 14136	Beers Z 9716	Bergum A T 14061	Bjarnarson B 8585	
Balls W L 8554	Baser N 10449	Beers Z H 9844	Berkley E E 14192-3	Bjarnason J 13115	
Ballu T 7738	Basham E 12857	Beeson K E 14999	Berkman J 14981	Bjernerling S 13116	
Baltazard M 12548	Bass R L 11259	Begins S 15613	Berlin Universität Institut für Obstbau 8770-1	Björn E 10687	
Bamberger 12409	Basset 8769	Begue D 14544	10882 13363 14536	Björklund C M 9525	
Bamberger G 12410	Bassett C F 11516-18	Behm H W 10350	15288	Björkqvist K J 10638	
Ban P A van den 13112	11521	Behmer M L A 14030	Bernard P 8464 10234	Björnstad R 15291	
Banal R 9616 9842	Bassi A 11260	Beilmann A P 7645	10882 13363 14536	Black D L 14143	
Banco de la Nación Argentina 15163	Bassmann F 11376	Belam F A 13588	15288	Black J D 13468	
Banco Hipotecario Nacional 15164	Basteleus R 8939	Belgium Institut National de Statistique 13712-4	Bernardes B C 9846	15292 16058	
Bane A 11106	Bastide M 14846	Beliakov N 11108	Bernardini O 11556	Black P M 9054	
Bandini M 13465	Bastos A de M 7563	Béliard J 8940	Berner L 7648 9617	Black W A P 8397	
15626	Bastos H M 14919	Bell A C 11807	Bernfeld P 14750	Blackall Valdez A 12286	
Banerjee B N 14071	Basu K P 13919	Bell E W 15889	Bernis F 12254	Blackburn B 9055	
Banfield G L 10408	Basu U P 7564	Bell J C 11685	Bernuth J von 7824	Blackiston E 11498	
Bank of Nova Scotia 10686 13537	Batchelor L D 8839-40	11734-5 11785	Berr J 13364	Blacklock G M 15890	
Banks N 13042-3	Bate-Smith E C 8394	11904	Berringer H J 11448	Blackmon G H 9056	
Banks W 7562	Bateman A J 12694	Bell L J 9537 13223	Berry J A 13589	Blackshaw 14144	
Baptist G 15589	Bateman H P 13114	Bell R C 13079	Berry J B 14368	Blackwelder E F 13242	
Baqué Z 15125	Bates M 12802	Bell R N 13642	Berry R N 7741	Blackwell H L 11663	
Baquist R 13842	Bates R 15628-9	Bell R W 14031	Bertani G 12713	11808 11907-8	
Bannan M W 8169	Bathen R 10310	Bell W 11430	Bertarelli E 13643	16143	
Bär A L S 13611	Batkin 9396	Bellah L 9045	Bertelsen B 13267	Blagovidov N L 9816	
Barabanshchikov S M 13832	Batjer L P 8172-3	Bellancourt M 13315	Berthault 9685	Blake D H 12599	
Barager C P 16141	Bats J 9712	Bellinger H 13396	Berthault P 13293	Blakeley G M 10311	
Baratte 12865 13113	Batson A A 9998	Beilmann K 8709	15151 15436	Blakeslee A F 8106	
Barber C R 14135	Batten E T 8344	Bellod y Bellod M 7853	Bertheaux P 11471	Blanchard J 14784	
Barber C W 11802-4	Battenfield D R 10669	Bellonte 7739	Berthelon M 11112	Blanchet J 13540	
Barber G W 12693	Bauch R 8107	Bellora P 14137	Berthelot P 9682	Blanco E 10951	
Barber H G 12807	Baudewijn J 9397	Belous I A 10180	Bertocchi D 11264	Blanco Gonzalez T 10000	
Barber R W 9038	Bauer J 15888	Beltran Monferrer J M 10949	Bertolini de 14280	Blankfelt A 14442	
Barberi B 14671	Bauer R 9536	Bembow W 9046	Bertolini V de 8772	Blankmeyer H C 14636	
Barbier G 8170 10179	Baulino A 13738	Bemis R W 11431	Bertoni A 11557	Blanquet P 8412	
Barbosa C 15087	Baumann R 11591	Ben-Meir N 8591	Bertrand G 8395	Blaringhem L 8109	
Barbosa D de M 11590	Baumgart S 8590	Benassi L 10428	Berzagli M N 8175-6	Blasch J 13117	
Barbut 9685	Baumgartner L L 8031	Benda H 14357	Bes K R 14537	Blaser H W 8061	
Barceló J L 15165	Baur K E 8371-2	Bender E K 9399	Besley H E 13080	Blaser R E 14094	
Barclay J 15887	Bavendamm W 7644	14279	Bessonnet E C 12411	Blauch B M 12910	
Bardet A 7851	Bay C A 13466	Bendigo C W 14138	Best H 16199	Blackland A C 12062	
Bardia Bardia R 16142	Bayerischer Bauernverband 13612	Benedict H M 10181	Bettolo G B M 8396	Blendinger W 10952	
Barducci I 10639	Bayers A C 11107	Benedict P F 11992	Beuvery L L E 11265	Bleton C 12287	
Baren F A van 10094	Baylor M B 7989	Benesch F 11592	Beuvery-Asman A 11265	Blin H 8555 8941	
Barger G L 16253	Bayon H P 11903	Bengal Chamber of Com 14139 16002	Bevan L A 13539	9057 12036-7	
Bari Stazione Agraria Sperimentale 8427	Bazan de Segura C 7852	Bengtsson-Hellgren A 9047-9	Bevilacqua I 12285	12100 12121 12141	
Barker A S 14093	Bazdorf A 9043	Beni F de 8463	Beyaert M 15106	12175 12223-6	
	Beach F A 11497	Benjamin E 13538	Bhat J V 14403	13739 14443-4	
		Benjamin H A 13666	Bhatnagar S S 9608		
		13693	Bhatt H R 12798		
			Bhattacharjee J P 15235 15289		



Item	Item	Item	Item	Item
Blinovskii K V 7565	Booyesen C R 13740	Brancolini L 15204	British Inform Serv 15692	Buenaventura P S 10376
Bloch F A 10375	Borasio L 14540-1	Brandes E W 8181	British West Indies Sugar Assoc 8684	Buff V 12178
Bloch A 14675	Borchers R 8398	Brandow G E 15296	Brittain W H 15757	Buhl 15039-40
Bloedel J H 10607	Bordeleau R 15088	Brandt H 12604	Britton C T 11994	Buis R 12023
Blois J de 15166	Borden A D 12919-20	Brandt J 13848	Briwa K E 16061	Bukowski W 12040
Blomkvist J 9058	Børgesen F 7696	Brann V H 11910	Broadbent F E 9718	Bull A 15759
Blondel 8841	Borgioli E 10855	Brannan C F 10107-8	Broadfoot D 15893	Bull S 14679
Blondelle R 13614	Borgström G 8774	14542 15038	Broadfoot H 7744	Bullard E T 8219
Blood B D 10953	Borin K A 13244	15297-8 15439	Broadley Sir H 16244	Bullard W E 10846
Blood D C 11449-50	Borna Z 15632	16144	Brochard 11269	Bullock R M 8185
Bloomfield H 11909	Borrell S 14032	Bransby E R 16059-60	Brochard J P de 14098	Bundschu E 14033
Blount W P 11809-10	Borrelli G 11267	Brasacchio G 15614	Brody G 11812	Bünning E 8186
Blum A E 13510	12177	Brase K D 8867	Brody C L 15894	Bünning V E 8063
Blunck 12867	Børset O 10476	Brasher E P 9850	Broeg C B 15036	Buosi E 15236
Boan J 15753	Borthwick H A 8178	Brasil J F de A 11115	Broek W H 12514	Bure J 14543-4
Bochet C 8773	Borzini G 7855	Bratzler L J 12205	van den 10480	Burg B v d 13838
Bockstaale L 15589	Bos K 11861	Braude I D 10109	Brokstad T 10480	Burger D H 15301
Boczkowska M 12696	Bosc J M 12602	Braun A C 7963	Bromfield L 15299	Burger H 10793
Bodinbauer J 11451	Bosch S 8428	Braun A F 12922	16200	Burgers T F 10481-2
Bodorff U 9059	Bose S K 7913	Braun E 12414	Bromley S W 7567	Burgess C 13390
Bodwell J H 14445	Boselli F B 7742	12511-3 14653	10410	Burgess E S 11911
Boebel F W 12176	Boss M L 8335	Braun F 13745	Brooker D 10110	Burgess J W 11341
Boehne C 7566	Boss S 14095	Braun O 8466	Brooks F A 13120	11629
Boekel P N 13838	Bostock F 12122	Bray R H 9817	Brooks J 16137	Burgess R W 12801
13845-6	Boston Milkshed Price Com 14012	Brazelton J S 8868	Brooks R C 13224	Burgos C X 12227
Boerman W E 16254	Botsford H E 13195	Brazil O V 9618	Brooks T 11665	Burgos J J 16255
Boes H T 15754	Bottazzi A 12603	Brazil Instituto Brasileiro de Geografia e Estatística 13715	Brooks W W 13456	Burkart A 8040
Bogdanov V 13903	Bottazzi A 14096	Brazil Serviço de Estatística Econômica e Financeira 16004-5	Brooksby J B 10977	Burke F M 10450
Bogdanov-Kat'kov N N 12600	Bottenburg M van 10351	Breareley A 14271	Broom J C 11452	Burkett W K 15167
Bogd M 13847	Bouchardeau C 12413	Breart G 15205	Brosio A 9063	Burkey L A 14034
Bohart R M 12868-9	Eouckaert G 13118	Brecht P 9061	Brown A E 9064	Burkhart R L 11535
Böhm H 12601	Boulter E L 10304	Breedlove C L 8596	Brown A H 15456	Burkholder C L 8871
Böhm J G 10260	Bouma G J A 13344	Bregger J T 8775	Brown A W A 13024	Burkholder P R 8332
Bohren B B 11674	Bourdon D 8179	Breidung G H 15691	Brown B I 7651	Burks A J 14149
Böhringer W 10409	Bourges-Maunoury 10261	Breirem K 10884	Brown C H 14147-8	Burmester B R 11814
Bohstedt G 11199	Bouriquet G 7856	Breithaupt G 11993	Brown C O 10756	Burnett C 13851
Boissonnas C B 14990	Bourrelly P 7697	Breland O P 12256	Brown D E 8700	Burnham C R 8111
Boissonnas R A 14749	Bovien P 7756	13746	Brown E H 15554	Burnihat Citrus Fruit Res Sta 8842
Bolas B D 9717	Bowden W M 8110	Breidung G H 15691	Brown G F 10111	Burne W R 9065
Bolgov A 15293	Bowen C V 12288	Breirem K 10884	Brown H D 9406	Burns J A 13747
Bolin F M 11811	Bowers W A 15295	Breithaupt G 11993	Brown H G 10856	Burnside C F 12415
Bolliger A 14145	Bowker J 12038	Breland O P 12256	Brown H L 13850	Burr M 12258
Bombay Agr and Rur Devlpmt Dept 13469	Bowles C E 15000	12766	Brown I L 8776	Burris R H 8410
Bombay Dept of Agr 14538	Bowling J D 8700	Bremer A H 9405	Brown J G 7964	Burse L T 14799
Bombay Civil Vet Dept 10954	Bowman G A 9404	9538	Brown K R 13430	Burström H 8187-8
Bombay Indus Com Food and Forest Indus Sub-Com 13470	Bowness E R 14677	Brenner L G 9619	Brown P H 13397	13398
Bombay Indus Com Misc Indus Sub-Com 14816	Bowstead J E 11200	Brenny R 12648	Brown R E 12039	Burt D S 14817
Bonadonna T 10883	Boyce A M 8839	Bressler G O 13221	Brown R G 15758	Burt S L 13197
11114 14676	Boyd T D 12921	Bressler R G Jr 13951	Brown R T 9933	Burte H M 14150
Bonarev N 15755	Boyd J E 11739	13959	Brown W F 11499	Burton G W 8467
Bond A D 15037	Boyden L K 8697	Bretschnneider L H 11116	Brownell S J 11117	Burton J F 12969
Bond R M 10506	Boyer F 8365	11116	Browning H C 12290-1	Burton M O 7857
Bond R W 10657	Boyer J 7704 15756	Brett W J 14678	Bruce W G 12257	Busch A 11996
Bondar G 14146	Boyer J M 16003	Breuer A 9620	Bruce W H 13366-7	Busch F A 8777
14281	Boyle J S 7997	Breuning S 12605	Bruggemans M 13268	Bush R 8778 8872
Bondi A 11738 14652	Boyko H 8032-3	Breviglieri N 8869	Bruhn A F 12606	Bushek F 13952
Bondurant J H 15187	Boynton C H 10946	Briadorolli A J 7650	Bruhn H D 8597 13270	Bushland R C 12294
Bondurant S 10106	Boynon D 8189 9876	Brian P W 8182	Bruijning C F A 13009	Bushoff 13590
Bone D 12412	Boysen-Jensen P 12697	Brichet J 12923	Brunett E L 11813	Busse J 10429
Bonetti S 9847	Bozo P 13741	Brierley P 8351	Brunetti T 13196	Butler F C 7745-6
Bonfield J P 13365	Braak H R 13742	Brierley W G 8183	Bruni B 8944	Buttner E E 11740-1
Bonfiglioli O 8465	Bracco M 8399	Brigatti C 11268	Bruni G 12292	Butts J S 11748
14539	Braconnier R 13743	Briggs F A 13081	Bruno Videla P H 12228	Butz V 14802
Bonhorst C W 14849	Bradburn S A 15601	13119 13849	Brush W D 7652	Buxton M W 15569
Boni A 9848	Bradford H W 14920	Briggs G E 8184	Bruskeland O G 11118	Buya A C 8600
Bonifacio F 13243	Bradley G A 12350	Briggs G M 11757	Bryan J M 14752	Buzi C C 14850-1
Bonini J 14798	Bradley H R 15891	14097	Bryant E B 12549	Byers G B 15457
Bopmassar S 15294	Bradley J C 12255	Briggs M J 15892	Bryant G E 12607	Byram G M 10451
Bonner D 8062	Bradley K 9749	Briggs M S 10733	Bryant L R 14048	10460
Bonner J 8062 9060	Bradley W G 12916	Briles W E 11664	Bryden J D 8870	Byram H M 15760
Bonnet A 8942	Bradshaw B H 15455	Brimblecombe V J 11377	Bryssine G 9705	Caballero P J 10352
Bonnice R 8177 9849	Brady H V 10755	Brink V 9062	Bryzgalov V A 9407	Cabané J 9621
Bonnot E 7649	Brady N C 9941	Brissaud 10625	Buchanan J E 10190	Cabeza F W 13198
Bonaldi V 11593	Bramao D L 9777	British Elect and Allied Indus Res Assoc 13429	Bucher G E 12870	Cabezas J 12416
14891	Brambell F W R 12022	British Honduras Dept of Agr 16145	Bücherl W 12550-1	Cabral Junior M 13748
Bonomi P 15631	Bramble W C 10477	10688	Buchholz J T 7653	Cabrera A L 7654
Bonvin F 8943	10688	Brancamp L 13978	Buchli A R 11558	8040
Boosalis M G 7854	Branão Filho J S 12289	10774-5	Buck J L 15300	Caddow 13749
Booth F L 10774-5	Branas J 7743 13744		Buckley M S 12293	Cade J R 10689
			Budd H 11995	Caffe P 10955
				Cafferata R E 10794
				Cahoon H H 11432
				Caillas A 12417



Item	Item	Item	Item	Item
Cain J C 8189 9851	Candura G 13121	Carver W A 8503	Chanlett E T 13646	Chwalibog J 11595
Cain S A 7568	Candy R A 13852	Casado Calvo J A 10720	Channon H J 14855	Ciaffi B 15310
Cairaschi E A 9408	Canino M 15458	Casalini M 15460	Chapin E A 12609	Ciani A 15635
Cairns D 10191	Canizo J del 7748	Cascon J 10235	Chapin L A 14014	Ciani G 14036
Cairo Amador A 15041	Cannon R M 13245	Cass H C M 15306	Chapin V L 15437	Ciccarone A 7864
Calabuig y Calabuig J 16007	Cano A E 11120 12228	Casida L E 11997	Chapman A J 13055	Cioffi R M 16106
Caldas D 15895	Cano E A 11121	Caspar J P 14369	Chapman C J 9855	Ciolina F 13125
Caldecott R S 8352	Cano F 12924	Casparé Mrs H E 15762	Chapman C S 11934	Cisneros A 9539
Calderon C 12574	Cantarelli M 15633	Caspari E 12926	Chapman E 15898	Claesen V 9411
Caldwell J S 14452	Canter H M 7749	Cass W G 14854	Chapman F B 10851	Clancy C W 12698-9
Caldwell S A G 14151-4	Cantoni G 14546	Cassamagnaghi F 11746	Chapman L T 10193	Clapham J 14548
Caldwell S Y 9067	Caplin S M 8190	Castanie H 7750	Chapman P W 15763-4	Clapp A L 7753 9858
Cale G H 12418	Capoor S P 7979-80	Castberg C 14447	Chapman R K 8192	Clapp R L 14284
Calif Dept of Agr Bur of Chem 16146	Cappelletti C M 8468	Castberg K S 9070	Chapman W H 8503	Clare L E A 14649
Calif Dept of Indus Relat Div of Labor Statis and Res 15237	Cappelli E 7570-1	Castelain S J 8945	Chappaz G 8946-7	Clark A M 12871-2
Calif Hay Grain and Feed Dealers Assoc 14545	Capper A 11742 11912	Castellani E 7861-2	Chappell W E 8193	Clark C F 11273
Calkins E W S 14155	Capri A von 14013	Castenmiller G M 10228	Chappelle R L 13123	Clark C M 15094
Callander R C 14156	Caputo J R 12142	Castle C V 14682	Chapple F J 9071	Clark J C 9464
Callbeck G A 11538	Carayon F 12419	Castorina S 9854	Chardon C E 16202	Clark K G 10210
Callenfels W van S 10555	Carayon J 12808	Castro D de 16148	Chargaff E 8194	Clark L H 7865
Callin G 13904	Carballo Pou J F 11289	Castro Silva J M 16008	Charon J 12102-5	Clark L P 12043
Callow E H 13046	Carbière R 13122	Catani R A 10192	Charteris R L 11668	Clark N 15311
Calvert P P 14680	Card L E 11743	Catron D 14683	Chartres C B 13124	Clark R B 7574
Calvo C A 12041	Cardenas M 7656	Catta R S 15090	Chassignet R 12704	Clark R M 11378
Calzecchi-Onesti A 15126	Cardenosa Barriga R 12295	Caulfield W J 13905	Chateau E 7659	Clark S W 12754
Camacho J M 11642	Cardinali 15577	Caulum V A 15903	Chateau R 14448	Clark W 14451
Camacho Ariño L 11594	Cardinell H A 13645	Cause E 16009	Chatel C 9856 10001	Clarke J R 13294
Camain R 12821	Cardoso F M 13750	Causseque D 10734	Chater S W 15308	Clarkson M R 11061
Camargo R de 7860	Cardwell I 9409	Cauwenberghe E van 8873 12296 12552	Chaumier J 13199	Clason M S 10484
Cameron A E 8710	Carena A 15304	Cavalli G 11270	Chauveau A 13757	Clauzel 14585
Cameron C 8689	Carew J 8191	Cave R A 11201	Chaves Vaud A 8659	Claydon T J 13979
Cameron E J 13644	Caridroit F 11815	Cavers J R 14922-3	Cheadle V I 8064	Claypool J B 10115
Cameron G 14282	Carini A 11453	Cavie R 12030	Cheema P S 12846	Claypool L L 8196
Cameron I 14446	Carlin G T 13605	Cavina R 15461	Cheng K S 7660	Clayton C B 16064
Cameron J L 13541	Carlin M A F 14921	Cawnpore Tech Devlpmt Estab Lab 14158	Cheng P 11997	Clayton C C 15765
Cameron S H 8843	Carliser L A 13853	Cayssials A A 12101	Cheo C C 13047	Cleland S B 15207
Campbell F W 16063	Carlisle C H 7981	Ceccarelli A 10956	Chernikov F S 10483	Clements H F 8685
Campbell L E 13471	Carlson C E 8601	Cecchetti F 13431	Chernin E 11816	Clements R W 10735
Campbell M H 15761	Carlson F W 12925	Cederstam R 10857	Cherry R G 15211	Cler G O 11274
Campbell R W 13301	Carlsson A 9068	Cella F 12180	Cheshire A R 15579	Clerck J De 13758-9
Campbell W A 7747	Carlsson C E 11122	Central Landowners' Assoc 15897	Chevalier A 14159	Clerens A 12298
Campello L B 11666	Carncross J W 14527	Central Vt Pub Serv Corp 13457	Chevalier C 9072	Clevenger M A 14285
Campos Onetti R 12179	Carne P B 12608	Cérpède M 13472	Chevallaz G A 15309	Cleveringa O J 9703
Campovasco J 8034	Carnes A 10112	Cercelet M 7751	Chevallier P 13082	Clizer N R 11913
Campredon J 10715	Carnevale J A 9010	Cerighelli R 16201	Chew A P 15127	Cloaninger B D 10211
Camus A 7655	Caroline J D 8779	Cerletti G B 13752	Chiang L Y 10586	Clopton J R 14856
Canada Bd of Grain Comnrs Grain Res Lab 8400	Carolis V de 11560	Cervera Ibañez J M 10430	Chiappelli R 7863	Clore W J 8197
Canada Bur of Statis 15302 16006	Caron de Saumery P 12420	Cervi B 15307	Chiaromonte A 12928	Close T 11519
Canada Bur of Statis Agr Div 14681 11539	Carpelan G 10556	Ceylon Dept of Agr 16149	Chidamian C 9073	Coaton W G H 13048
Census of Indus Forest Prod Statis 10690 10757	Carpenter F M 13010	Chabot G 13753	Chieffi A 11123	Cobb S P Jr 16190
Canada Dept of Agr Agr Supplies Bd 15303	Carpenter F R 10113	Chaddock T T 11522	Chilanti P 15195	Cocco E di 15580
Fruit and Veg Prod Res Com 14283	Carpenter G A 15896	Chadwick L C 8711	Childs J F L 8195	Cochran E A 9540
Canada Dominion Reclam Sta 8429	Carr F 9853	Chadwick L E 12701	Chile Departamento de Genética y Fitotecnia 8430	Cochran L C 7983
Canada Mktg Serv Mkt Inform Sect 14430	Carrasco E O 16092	Chaffard 12422	Chilson L 12598	Cockerham K L 12610
Canadian Aberdeen Angus Breeders Assoc 11119	Carraway B 13542	Chalaustr R 9757	Chinese News Serv 15128	Coetzee P J S 8602
Canadian Kennel Club Inc 11433	Carre G 9410	Chalenko D K 13754	Chinoy J J 7573	Coffey T M 10262
Canadian Standard Bred Breeders' Assoc 12123	Carrera C 8469	Chamberlain E B Jr 8035	Chisman H H 10688	Coffman F A 8473
	Carreras F F 11434	Chambers E E 7982	Chladek V 10957	Cohen H 8874
	Carrick C W 11744-5	Chaminade 13755	Choinière L 9721	Cohen R 14803
	Carrol M 8780	Chaminade R 9720	Choquette C 12042	Coiner M S 7575
	Carson C M 9069	Chaminade R R 9778	Chorin M 8021	Colas-Belcour J 12553
	Carson H L 12755	Chancogne N 12423	Chouard P 14449	Colby W G 13126
	Carte T E 11667	Chandler A L 15091	Chovelon J 14544	Colclough P S 13316
	Carter A N 16147	Chandler S C 12927	Christensen A 11669	Cole W R 13647
	Carter D G 13391	Chandler S E 9623	Christensen J J 12929	Coleman C F 9074
	Carter G A 12421	Chandnani J J 9702	Christensen K 14547	Coleman E 8065
	Carter G H 14499	Chandra S 15238	Christensen L 15462	Coleman F B 10194
	Carter J 13423	Chaney R W 7657-8	Christian A B 11272	Coleman G E Jr 14924
	Carter R M 10670	Chang H C 16010	Christian C F 14015	Coleman S D 13392
	Carter S 14157	Chang P H 12787	Christiansen E 8948	Coles R 11914
	Carter W L 7572	Chang S C 16011	Christiansen J B 11747	Collinder S 10619
	Carton P 15305		Christmann G M 7752	Collins D O 14699
	Cartter J L 14853		Christodoulou J 10114	Collins E R 15313
	Cartwright L C 13504		Christopher E P 9415	Collins H L 13716
	Carver J S 11885		Ch'u H M 10587	Collins J H 14286
			Church H 16229	Collins T 12424
				Colmer A R 14456
				Colt S 15725
				Columbus A 10908
				Colvard D W 8603
				Combe Loero I 12299
				Combredet G 15766



Item	Item	Item	Item	Item	Item
Comstock R E 8143	Cosgrove C M 11277	Cruise M 9085	Danielson U 10377	Del State Bd of Agr 16152	
Concas O 11596	Costa F C 13129	Crump O W 15768	Danilov M D 8205		
Condigiani J R 11275	Costa J 14288	Cruse W T 10729	Dankanits L 13906	Del U School of Agr Ext Serv 12304	
Condon M Z 8274	Costa R 15901	Cruz G E S 15615	Dankenbring R 15468	Delbrück M 8209	
Condra G E 9779	Costa R G 12809	Csiszar J 13906	Dansereau P 8037	Delbrück M B 8209	
Conférence Internationale de Pédologie Méditerranéenne 9686	Cottam G 7578	Csiszar V 11379	Darlan L A 12076	Deleau J 14553	
Conger A J 8112	Cotte J 8179		Darmer G 8113 8401	Deleurance E P 12873	
Congrès Pomologique de France 8875	Cottier O 9083	Csizik A 9086	Darrow G M 8952	Delgado P P R da S 10433	
Conklin R 12063	Cotton R T 12301	Cuevas Garca E 11643	Das S 9722	Delignières 15770	
Conklin V 12063	Couch G C 8066	Cullen E 10117	Dastur R H 8206	Dell A 13855	
Conn H J 9750	Couch J F 14344	Cullity M 13907	Daubney C G 16059	Della-Tola J 11381	
Connell E A 7576	Couch J R 11818	Culpepper C W 14452		Della Valle E 15318	
Connolly R G 15581	Couch V M 11435	Cumming A R 12425		Dellenbach P 9704	
Conolly M 14654	11657 14685	Cumming H 13650		Dell'orsola G 14554	
Conoly G W 15899	Couchman R 11915	Cummings M B 9087		Delmas 12612	
Conover R A 7866	Coudert J 12700	Cummings R W 9818		DeLong D M 12812	
Conradi R R 9075	Coulter S T 13953	Cunningham A 14037		Demar M 8477	
Conserv and Unionist Party Organ 15314	Couper G P 15767	Cunningham G 11080		Demaree J B 7984	
Constable P C 13648	Couranjou A 8844-5	Cunningham H E 14291		Dembinski J 15771	
Constantinescu G I 10431	Courregelongue R 10263	Cunningham J B 15602		Dement'ev M 14040	
Conway H M 14684-5	Cours G 8475 9541	Cunto M de 16107		Demesmay H 9413-4	
Conway V M 8036	Cousins F W 10776	Curini Galletti A 9860-1		14293 14373	
Cook A H 8198	Coutiere G 9542	Curl A L 14343		Demianowicz A 12428	
Cook G C 13127	Coutin R 12612	Curley H C 15042		Demmler G 13908	
Cook H L 10236	Covas G 7635	Curman J 14804		Demmon E L 10264-5	
13943 15605	Covert R N 13083	Curnow D H 11258		Demolon A 8431	
Cook J 12044	Covington E G 14419	Curtis G C 11916		Dempshor J 11454	
Cook L 9076	Cowan J C 14859	Curtis J T 7578		Dench E A 13544	
Cook M H 9077	Coward F F 8877	Curtis R S 12107		Denffer D V 8210	
Cook M L 9078-9	Cowell C 14502	Cussac C M 10515		Denisen E L 8211	
Cook O M 12045	Cowgill L 15726	Cuthbertson E G 10411		Denman C B 13545	
Cook R 14925	Cox C E 7896	Cuthbertson J A 13130		14359	
Cook W 11079	Cox H A 10432 10487	Cutkomp L K 12794		Denman L 11998	
Cooke G B 10485	Cox J F 15465	Cutler G H 8674		Denmark Statens Forsøgsmejeri 14041-2	
Cooksey R M 15463	Cox L 13084	Cyprus Dept of Agr 16150		Denmark Statens Planteavlssudvalg 8115	
Cooley M L 11747	Cox R F 10886	Cvr F W 13086		Denmark Statens Planteopatologiske Forsøg 7756	
Cooley O 10588	Cox W T 13085	Czaja M 11081		Denmark Statistiske Departement 15239	
Coomber H E 12300	Cozzo D 9624	Czarnecki J 14819		Denmark Veterinaer of Landbohøjskole Landøkonomisk Forsøgslaboratorium Dyrefysiologisk Afdeling 12229	
Coon J M 12106	Craft W A 12125			Denmark Veterinærdirektoratet 10960	
Coon N 9080	Crafts A S 9543			Dennett A H 14687	
Coon P E 10486	Craig J B 10691	Dabral S N 10488		Dennett L 13697	
Cooney W T 11748	Crain L S 13432	Dadabaev A D 8557		Denning D G 13049	
Coony J J 10002	Cram W W 12143	Daetwyler M J 9088		Dennis E 9980	
Co-op Union of Queensland 13543	Crancross J W 14927	Dagg G D 10784		Dent J N 12888	
Cooper H P 8199	Crandall Mrs T W 9084	Dahl A H 12302		Dent T V 10488	
Cooper J B 11817	Crane H L 8343	Dahl O 14786		Depew F M 16065	
Cooper M R 13473	Crane J 12554	Dahlberg A C 13201		Derby J V Jr 13505	
Cooper R S 12754	Cravens W W 11818	Dahle C D 14038		DeRigo H T 9735	
Cooper T P 15464	Crawford A B 12075	Dahlgren J 15316		Dermine E 8277 8783	
Cope J A 15037	Crawford J J 14370	Daigle C J 7940		DeRose H R 9735	
Copeland E B 7634	Craybill W R 15466	Daigle J 11380 12932		Derosé R L 13458	
Copeland H F 7661	Creech J L 8202	13011		Derwael F 15589	
Copes O R 15900	Crescini F 14551	Dailey D L 15769		Desai M N 15240	
Copley G H 8876 8949	Crescioli S 15315	Daines R H 8279		Desaynard P 8880	
9081-2	Cress D 10003	Dairy Indus Supply Assoc 14039		Desch H E 10640	
Coppee G 9636	Creswick W J P 15693	Daji J A 8204		Deschappelles J B 12305	
Cocuillat 7577 8200	Crews C F 15902	Jakers J S 9089		Deschiens R 11819	
Corbat A F 13649	Creyke G H 12211	Dakin G 14160		Descotils R 11999	
Corbett D M 12181	Crivellari D 10845	Dale M R M 14655		Desneux J 13050	
Corbett E J 15440	Crocioni A 8203	Dalencour L 12767		Dessi G 8846	
Corbett G 15092	Crocker E C 13524	Dalling T 10958		Desvignes J 13474	
Cords H P 8462	Croom C W 9785	Dalmasso G 8950-1		Dethier V G 12701	
Cords-Parchim W 15555	Crosby J 8556 10004	13760		Detry E 11919	
Corey M L 14287	Cross F B 9011	Dalton J 14857		DeTurk E E 10220	
Corlett R 13448	Cross P E 15467	Daly J 14161		Deux Y 13761-2	
Cormack R G H 10116	Crouzatier L 15636	Daly J M 8356		Devillard R 8784	
Cornand P 15106	Crovetto A J 14844	Dam W van 13838		Devinat P 10889	
Cornejo F M 11597	Crow J 13317	Dambach C A 7755		Devine J 10557 10671	
12182	Crow W C 13577	Dammerman K W 12303		DeVoto B 15513	
Correa O 10885	Crowder L V 8476	Damon S C 7867		Devoto L 15638-9	
11276	Crowe L K 13980	Damtoft W J 10795			
Corsini T 12124	Crowell J R 10452	Daneluk J P 9090			
Cortazar Sagarminaga R 8474	Crown R M 14818	Danforth D 14100			
Cortez G J A 11202	Crowther D S 8781-2	Daniel B H 9091			
Cortvriendt S F 8201	Crowther E M 9859	Daniel H A 10118			
Cosgrave L M 13615	10219	Daniel L H 15043			
	Cruess W V 14358	Danielson L L 9544-5			
	14371				



Item	Item	Item	Item	Item
Devuyt A 10006	Dordoni F 11455	Dunegan J C 7888	Eichsteller W 11505	Engelman G 14760
Deweerd E 12429	Dornberger K 7981	Dunk M R 11085	Eidel'nant M I 8560	14762-3
De Whalley H C S 15045	Dorokhova N A 3213	Dunkelberg G H 10659	Eides E 10798	Engels 10893
Dewitt J B 13505	Dorph-Petersen K 9897	Dunlap A A 7909	Einset J 8061 8117	Engle H B 8700
Deoye G P 15772	Dorsey M J 8785	Dunlap M E 13385	Eire Pigs and Bacon Com 14691	Engle R E 9605
Dhannalal 7759	14294	Dunns Farm Seeds Ltd 8480	Eisenberg W V 14345	Engelhard J 7760
Dhawan C L 9996	Dorst J C 9096 9416	Dupin 9625	Eisenschiml O 10660	Engels O 9873
D'Ächenko A E 10412	Dort H W V 9097-8	Du Plessis C V H 14557 14690 15702	Ekbote R B 7759 7869	English E H 7581
Diakonoff A 12934	Doty M S 7705	Du Puy P 10891	8218	Enrencron V K R 8217
Dias Ossa A 15319	Dougherty J L 16267	Duran L 15472	Ekberg L 14168-9	Entrican A R 10589
Diaz G Herrera A 11083	Douglas W O 11541	Duran Quevedo T 16108	Ekbrant L 9417-8	Enzie J V 9012
Dibble G G 9095	Doumeng J 15583	Durante D 13134	Ekman S G 10314	Enzinger H 13346
Dibbs H 11671	Doumont L 9099	Durbin G 15882	Ekström J 16017	Epstein S S 13765
Dickens O 16066	Doutt R L 12259 12875	Durme M van 8714	El-Ibiary H M 11922	Erb C 15084
Dickerson L B 16230-3	Dow Chem Co 10658	Durrance C L Jr 13345	Elbel F 15584	Erbacher E 14008
Dickey J B R 8478	Dowdle H J 10120	Dürrwaechter 11383	Eleftheriou V 8608	Erber M 11852
Dickey R D 8212	Dowell A A 14760	Dursteler 14013	13138	Ercole Q N 12789
Dickins D 13133	Dowle H D H 12000	Du Toit A T 12047	Eliasson S 8481	Erdmann F 11284
Dickinson C L 15773	Dowling E J 10267	Du Toit J J 7986	Elizarov V 15241	Erekson A 14692
Dickinson H R 9864	Doyle W L 12024	Outra E G 10121	Elizarova O 15241	Erekson A B 13982
Dickman P B 14374	Draghetti A 9866	Dutt N 12815	Elkington W M 11923	Erhart M B 12184
Dickson R C 7985	14556	Dutt N L 8686	Ellenberger H E 16111	Erickson H O 14456
Diego A I de 19061-3	Dragon J 13320	Dutton H J 14859	Ellenwood C W 8881	Erickson T C 11475
Diégués Júnior M 16012	Dragsbo G 13393	Duval P 7758	8953	Ericson F L 15585
Diemer G 12430	Drake C J 12813	Duvernoy M 7579-80	Ellickson J C 15625	Ericsson G 13618
Diernhofer K 11278	Drake M 11125	Dyring T 10489	Elliot T 11673	Eriksen S 10894
Dieterich V 10378	Draper C I 11749	Dzhangirov Z 13322	Elliott D 9103	Eriksson E 11205
10796 10829	Drawert H 8214-15	Dzieduszycki A 11562-3	Elliott F F 15129	15779
Dietrick E J 12810-11	Drbal M Z 11821	Easley T 8559	Elliott H G 15047	Ermolaeva E IA 8342
Dietze C von 15320	Dregne H E 9867	East L R 10010	Elliott J H 8715	Ernst E F 9549
Diez C 13546	Dreikauss M 14455	Easterbrook L F 15904-5	Elliott N R 9104	Ernst J 13766
Diffloth P 11084	Drenckhan E 14043	Eastwood A 7663	Elliot R 12127	Errington B J 11599
Dijk D van 16013	Drew F W 16015	Ebbell 11921 14930	Ellis Sir A 9870	Erwes K 8882
Dijk J W van 9865	Drewry D 11920	Ebbell H 11979	10195	Erwin R L 13236
10119	Dreyfus A 12702	Ebertz K 13135-7	Ellis D E 7870 7965	Esau K 8067
Dillard E U 11207	Dreyfus G 10966	Echeverria I 10758	Ellis F E 9981	Esbo H 14295
Dillard G K 11785	Dricot 13321	Eckardt A 14860	Ellis G H 12028	Esch J A H 16018
Dillman A C 8558	Drosdoff M 8212	Eckardt G 13954	Ellis H M 13087	Esche E 13857
Dimitri M J 10413	9933	Eddins A H 7868	Ellis M G 9781 9871	Escuder D 11289
Dimock A W 7757	Druetto E A 13909	Eddy B 12935	Ellis N K 8219 9419	Eshbaugh E L 12936
Dinkla P E 13319	Drummond J P 10414	Eddy R T 9101	Ellison J H 8220	12970
Dinsdale D H 15582	Drummond W C 9100	Edelman C H 9687	Ellison W 11204	Eshuis J J 13144
Dinter Z 11820	Drummond W M 13617	Edgar S A 13051	Ellison W D 10111	Eskeu R K 14360
Dionido P B 15470	Dubois de la Sabloniere 10313	Edgerton L J 8216	Elod E 14170	14365
Dirnberger H 14555	Dubois J 10093	Edgson F A 11283	Elter L 12002	Esme A 12876
Dirschel W 15108	Dubois L de G 10672	Edinburgh and East of Scotland Col of Agr 8433	Elvehjem C A 11475	Espigule Puig J 14559
Ditchman J P 13445	Dubourg J 14607-8	Edinger W J 14376	13913 16067	Espouy F 11600
Dixon W B 12613	Dubret R 10268	Edlin H L 10379	Elvidge J A 8198	Esselen W B Jr 13647
Dobberstein 10964	Dubrle M 12290-1	Edler G C 15001	Elwell H M 10118	Essig E O 12818
Dobberstein J C A 10965	Ducap R 8432	Edminster T W 10039	Elwood E M 15208	16203
Docker T M 11279	Ducat R 8402	Edmonson F G 13506	Elyan A 13596	Esteban M 11564
Dodd D R 8606 11750	Ducet G 9868	Edwards E E 12431-2	Elze D L 8221	14820
Dodd N E 10266 13475	Duchaufour 15775	Edwards G T 15906	Emanuelli A 9543	Estévez I 8609 10316
Dodson E 16234	Duck R W 11282	Edwards J R 13433	Embree W D Jr 14705	Estrada R N 8022
Doering W 10797	Dudick G F 15046	Edwards J T 10967	15213	Etchepare A 14377
Dokter J 13838	Dudley F J 11787	Edwards K E 15473	Embry L B 12073	Etigny J D 14693
Dolan D D 9415	Dudley L B 9101	Edwards M G 8403	Emerson H 15777	Eto W H 8243
Dolgova K I 8479	Due P R 10890	Edwards S W 12433	Emerson H J 13139	Ettinger R 11738
Doll E R 11598	Duewell H 12814	Edwards W H 12614	Emerson K C 13054	Euler H V 8399
Dolley F H 14454	Duff Sir P 14689	Efferon J N 14558	Emery C A 16268	Eustace H J 14296
Domenighetti C 10007	Duffee F W 13270	15478 15588	Emery C E 16154	Evans C E 9724
Domingo W E 13269	Duffin T H 12001	Eggert R J 14761	Emilsson B 7871	10229
Domingues O 11280-1	Duffy J 8079	Eggler W A 8038	Eminx N H 13140	Evans G 12515
11672 12126 14929	Dufresne J R 7615	Egner K 10777	Emmerich H 10558	Evans G W 15475
Dominguez O 12046	Dufresne M 10182	Egypt Min of Agr 16153	Emmerling A M 10315	Evans H E 12877
Dominican Republic	Dugdale H 13651	Egypt Min of Agr Statist Sect 14167	Empire Cotton Growing Corp 14171	Evans H J 8223
Dirección General de Estadística 16014	Dugelay A 10353	Egypt Min of Educ 15776	Empson A 10011	Evans J 15322
Dominion Dairy Conf 13856	Duggan A P 10009	Ehlers K 10968	Emsweller S L 8222	Evans M B 13767
Dominy J N 13368	Duggan I W 14165	Eichbaum F W 11465	9105	Evans T E 13695
Donà Dalle Rose A 10008	Dugré A 15321	12183	Enander J 10473	Evans T E 13695
Donaldson R B 14375	Duke H A 14044	Eichler W 12306 12615	Enders R 15778	Eveleth D F 11811
Donaldson R W 13998	Dulac J 13763	12703 13052-3 13061	Ene de Piro M 9106	Everett H L 8118
Donini 15471	Dumbra C D 13764		Engel 12816	Everett T H 9107-8
Donini G 13000	Dumont R 13271		Engeler W 11126	Everist A J 15907
Donisthorpe H 12874	Dunbar C O 9869		Engelhard J 13141-3	Evers C F 13654
Dood F H 11382	Duncan D 14166		13225 13249 13302	Everson H 9420
Doole L E 15740	Duncan H M 16016		13323 13981 15474	Evison J R B 9109-10
15774	Duncan R E 8116		Engelhardt 12817	Evreinoff 8224
Doolittle S P 7586	Duncom M 9102		Engelking R 15707	Ewing K D 12616
				Ewing P A 10012
				Exley Mrs F M 9111
				Ext W 12937
				Eyles D E 12801
				Eyman R A 10013
				Eyston W H 7583
				9751



Item	Item	Item	Item	Item	Item	Item
Ezcurra J C 11127	Fergusson F F 10014	Flangini S 10859	France Commissariat 14564	Friedrich 11646		
Ezzeddin A 13347	Ferier R 12436	Flatscher H 10568	General du Plan de Modernisation et d'Equipement 14174	Friedrich A 14175		
	Ferlenius G R 8883	Flawn L N 15586		Friedrich K 15616		
Fabelo Santana P 8847	Fernández L M 13031	Fleisch H 12437	France Direction de l'Information 15326	Friedrigger 9117-18		
Faberge A C 8119	Fernández R J 10491	Fleischer H O 10778	France Direction de la Documentation 14564 15327	Frierson W C 9119		
Fabiani L 14297	Fernández Artiles R 12986	Fleischhauer E 8070		Fries L 8228		
Fabregues Soler J M de 13768	Fernández Cano R 14695	Fletcher C 12810-11	France Laws 13777	Friese-Fickenschner L 14300		
Faccini G C 9874	Fernandez Pérez J 12986	Fletcher H B 13324	Statutes etc 13777	Friesen J 15785		
Fachini G 16139	Fernow K H 7873	Fletcher O K Jr 12768	France Service de la Protection des Vegetaux Section de Selection et de Controle de Bois et Plants de Vignes 8955	Friggens P 15679		
Fafard A 10490	Ferragut León C 13548	Fletcher P L 14842		Frischbier 10976		
Fagan F N 7975-6	14696	Flcury F 11751		Frisendahl R 13262		
Fagomasino J M 15048	Ferrand M 14861	Flikke A M 13275		Frisman D 14176		
Fahringer F 13145	Ferrand R H Jr 11674	Floch H 12704-5		Fritsche C 14699		
Faivre M 8786	Ferrando R 11456	12769-72 12821		Frizzi G 12773-4		
Falcioni A C 14764	Ferrara A 14862	Flock R A 7985		Froden R E 10196		
14821	Ferraris L 14562	Florea J H 15932-3		Froehner R 11290		
Falck E von 15109	Ferreira E 11385	Fla Livestock Loss Prevention Com 12231		Froeschel P 14566		
Falck O 7706	Ferreira Filho J C 8482	Florin R 7664		Fröier K 8651		
Falck R 7706	Ferrer Palaus J 11565	Flory C H 10317		Fromont P 15645		
Falconer J I 13077	11644	Floto E V 9114		Frostenson G 15587		
15190	Ferrin E F 14762	Flückiger G 10972-3		Fry B O 8956-7		
Faldini J 16269	Ferris L W 13769	12438		Fu Y H 15646		
Fales J H 12260	Ferstner O 10858	Fluke C L 12822		Fuchs A 13898		
Falkowski M 8068	Ferwerda F P 9626	Flynn A E 8121		Fuchs E 13983		
Farah N 10969	Fessler J H 13770	Fobes E W 10559		Fuchs J 14765		
Fardig O B 16111	Fethers G 10970	10569		Fuchs W 10172		
Farkas L D 13655	11287 11602	Foged N 7698		Fuentes Irurozqui M 15329		
Farley H 11285	Fevrier R 12156	Fogelholm K G 10693		Fuhrmann A 14989		
Farm Mktg Outlook Conf 13547	Feuillet M 13771	Fogh I F 10759		Fulford H J 11221		
Farmiloe C 12434	Fiasson J 12558	Fol R 8434		Fülle A 14177		
Farnsworth H 13695	Fidler J C 8225	Folcker I 13434		Fuller H S 12555		
Farolfi G 15209	Fiechtner H 15642	Foley W T 12128		Fullerton W H 13276		
Farquhar A J 14560	Fielding W L 8561	15210		Fulmer J L 15152		
Farrag H 11286	8687	Folley S J 11258		Fulton R A 8351 12260		
Farrar M D 12307	Fife L C 13055	Fondard L 8483 14563		12383-5		
Farrell E P 14561	Figueiredo R de 9113	Fonseca M M da 8954		Funchess M J 15330		
Farrington R L 15170	Figueroa Infante J 14697	Fontaine T D 7586		Funk 10590		
Faucillon X 7761	Fileni E 15130 15781	Food and Agr Organ of the United Nations 15324 16068		Furlong C R 14458		
9421	15908 16019	New Zeal Deleg 16245		Furlong J R 12621		
Fauler F 12144	Filinger G A 14457	Nutrition Div 16069		Furman D P 12729		
Faulkner R P 10170	Filosa V 15323	Foot A S 11382		Fusté V 13090		
Faul G 11601	Filutowicz A 7624	Foot F J 8023				
Faurel L 8039 9875	Filzer P 8069	Foot L E 11285		Gaarder P I 9120		
Fausser 15476	Fin A L de 16255	Forbes A C 10269		Gabbard L P 15211		
Fauster 11128	Finch F H 9765	Forbes B P 13944		Gabler H 12556		
Fauster J 11384	Fineron J 13369	Forbes M 13775		Gabrielsen E K 8229-30		
Favard P 12617	Fink F 11925-6	Forbes R S 12939		Gadd I 8435		
Favre R 13147	Fink H 13772-3	Ford K 15002		Gaddy V L 10210		
Fawcett H S 8839	Finn-Kelcey P 13274	Foreman M 11645		Gadgil D R 15133		
Fawcett J M 9112	Finsterbusch C A 11675	Foret J 9877		Gadkari P D 14178		
Federal Land Bank of Wichita 15171	Finzi G 10971	Forget 15477		Gadola A 11086		
Fed Reserve Bank of Chicago Res Dept 14694	Fippin W H 15643	Forman J 9766		Gaede 11604		
Federal Reserve Bank of N Y 13619	Firbas F 7584-5	Formento M 15910		Gael' A G 10493		
Feess H 12435	Firestone H Jr 15131	Formigoni 12620		Gaines J C 12312		
Feffer F M 10221	Fischer A 15909	13776		Gaines J P 15478		
Fehr A 14195	Fischer E H 14750	Forsberg F M 9115		15588		
Fehrlin A 14172	Fischer F 10492	Forshaw R P 12145		Galesloot T E 13911		
Feinbrun N 16204	Fischer H 7874 8226	Forster J L 9627		Galindo A 12232		
Feller R 15780	Fischer J C 10380	Fortenbery B W 15003		Galinsky I 8231		
Fellers C R 13647	Fischer W 10015	Fortner J 11603 12185		Galland J W 8666		
14412 16120	Fischer-Schlamm E W 13226	Foss E W 13088-9		Galle F C 8071		
Felton E R 11221	Fiseiskil V N 13774	Fosse E R 15783				
Fender K 12618	Fisher E 9876	Foster A C 12308		Gallego Piedrafita J 11753		
Fender K M 12619	Fisher R T 15782	Foster J E 11207		Gallera J 11822		
Fenne S B 7762	Fisher S W 11224	Fouad I U 15784		Galletti A C 9880		
Fennell J L 7872	Fite W J 11206	Fac of Agr 15784		Gallez P 10319		
9422	Fitzgerald O A 10661	Fouassier M 13910		Gallimberti U 15913		
Fenton F A 12938	Fjäderhane A M 15242	Foulon L A 13858		Gallina L 11129-30		
Fenton G R 10126	Fjeldalen J 12347	Fourgeaud J 7763		11291		
Fenton R H 10434	12819	Fournier G 15842		Gallini T 15134		
Ferber H 9423	Flagg F 13955	Fowler R G Jr 15110		Galloway I A 10977		
Fergus E N 8610	Flaherty F 14931	Fox A S 12706		Galoux A 12622-3		
Ferguson C M 11750	12849	Fox G S 15911		Gal'pern G D 8232		
11924		Fox L C 10016		Galvin J 10494		
Ferguson J 10895		Fox Mrs M J 9116		Gamache C A 15914		
Ferguson J M 10123		Foxá J 15325		Gamarra Cortijo T 9121		
13273		Franc de Ferrière P J J 9688 9725		Gambrell F L 12823		
				Gambus H 8958		



Item		Item		Item		Item		Item	
Gamby E	9424	Gendre M	14460	Ginsburg J M	12775	Gorelov V	15244	Gt Brit Min of Agr	
Gammon C	13306	Genest P	11361	Giorda A	15708	Gorget M	9130	and Fisheries	8887
Gangstad E O	8484	Genter C F	8613	Giordano G	10641	Gorham J R	11525-6	9432 11133 11298	
Gannon E C	14567	Gentil	15050	Gip E	15789	Gorny C J	14571	11606 11827-30	
Gans A R	15331	Gentile G	14431	Giardi	8959	Gorodnii N G	8565	12080-2 12187	
Gantz H L	13956	Gentile Q	15647	Girolamo A de	11523	Gorsehnin K P	9786	12445 12559 12709	
15786		Genyeis P	7766	Girten P E	10673	Gosi L	8485	12880	
Ganz A	8404	Georgacopoulos G	13782	Gish R E	10125	Goss W H	14866	Gt Brit Treas	13551
Garbin G	14301	George J F	15332	Gislason G	11824	Gottbehut A H	11527	Grebinskii S O	16110
Garcia J F	11447	George L V	16270	Gist G R	8234	11543		Greco C H	9433
Garcia J P	13778-9	George M A	12146	Giua M	9551	Gottland Province		Greeley W B	10802
García Díaz E	10381-2	Georgescu C C	10383	Giudicelli R	11461	Agr Assoc	15916	Green A E	9135-6
Garcia Fernandez S	14895	Gerald S	14302	Giulianelli E	12314	Gotz B	7769	Green J J	7987
Garcia Guijarro L	10222	Gerasimov I P	9783	14568		Gotz W	13325	Green J M	8486-7
García Rada G	7765	Gerber H	13783	Giuliani R	11135	Goudreault R	7615	Green L	8888
Garden M	9123-4	Gerhardt F	8172	Giussani G	7767	Gouin T	10274	Green P L	15917-9
Gardiner F G	15741	Gerlaugh P	11159	Glabau C A	14569	Gould E C	7770	Green R R	14702
Gardiner J G	13449	11211		Glaser H	10272	Gould G E	12318	14806	
Gardiner L A	9125	German H L	11754	Glass A	9128	Gourc J	12558	Gréen S	8716 8889
Gardner B W Jr	14819	11823		Glasser	14787	Goustard M	13012	13400	
Gardner K E	11209	Gerosa G	10979	Gleason H	11389	Govaert F	15111	Greene A L	9137
Gardner L C	14656	11293-4		Glenn E M	9013	Gow P B	15479	Greenroyd J	11134
Garese P	7587	Gerrard F	14823	Glickman I	12290	Gowans K D	8023	Greenwald H	12881
Garg D N	7880	Gerretsen F C	14537	Glover R E	10967	Gowen A	13148	Greenwell G A	13091
Garibi E del V	8024	Gerritsen A	8885	Gobbi E J	11928	Göz H	15648	Greenwood A W	11831
Gariépy J P	7615	Gershoff S N	11475	Gobble J L	12158	Graaff E A van de	16020	Greenwood D E	12943
Garland W J	13004	Gershons L	15004	Goblet D'Alviella		Graber L F	15005	Greenwood C	11299
Garner F T	11542	Gerst K	9426	Comte	10800	Grabö P	15336-7	Gregoire C	8236
Garoglio P G	14864	Gerstner R	11295	Godan D	12625	Grabowski J	11566	Gregory F G	8848
Garon E	10354	Gertler S I	12992	Godard C	10801	Graef R A	11544	Gregory J M	8848
Garrad G H	8667	Gertsovich G	15333	Godfrey G H	7886	Graham C 12319	12942	Grether D F	13002
11210		Gessner A L	14461	Godinez M	9883	Graham E H	14701	Grew R	15341
Garratt D C	13503	Gest H	8233	Godwin G	10273	15790		Grey C H	9138-40
Garrett H V	12186	Gette P	12624	Goede B de	13912	Graham H D	9819	Grez A	9552
Garris E W	15787	Geus J de	13424	Goetz K	13277	Graham J	12444	Griesbeck	14304
Garriss H R	7870	Gevorkiantz S R	10436	Gohar M A	13596	Graham P H	10674	Griessinger C	12439
7965		10694		Goidanich G	7768	10696 10730		Griffith A L	10437
Garside M S	11386	Geyer H	9427	7887 12315		Graham S G	14572	Griffiths D G	14503
Garver H D	15915	Geyer K E	13957-8	Gola G	8886	Graham W D	11885	Griggs W H	8961
Gary N D	12440	Géze B	9784	Gold Coast Dept		Grain and Feed		Grillot G	9689 9705
Gascon R	7615	Ghali M B	15334	of Animal Health		Dealers' Natl Assoc		10182 16271	
Gaska A	11292	Ghelmeziu N	10695	1980		14573		Grimaldi L	8436
Gassner F X	10978	Ghent Landbouw-		Goldenson J	12316	Gralén N	14182-3	13784	
Gastel L A van	13780	hogeschool Rijk-		Goldsborough G H		Gramolini M	8960	Grimut V	8962
Gates J R	12313	station voor Land-		14379		13348		Grinovero C	10018
Gatley P	7588	bouweconomie	15589	Goldschmidt L	11849	Grafia A da	11460	Grisson P	12627
Gattani M L	8356	Ghesquière J	12825	Goldschmidt W B	9884	Grandin P	15338	Grisson P H	9886
Gattefosse J	9126	12878		9884		15480		Grob E C	13506
Gattefosse R M	9628	Ghida F	11188	Goldston E F	9785	Granditskii P A	15481	Groenewegen J H	
Gaucher G	9775 9782	Ghidini G M	12879	Goldsworthy M C	7888	Grange C	11755-6	Groenman S	15342
9881		Ghigi A	14935	8235		Granhall I	8566 14184	Groepper E	14464
Gaul	9882	Giacometto G	12077	Goltz G	13550	Granlund T	10830	Grokhovskii M I	9706
Gault A	15172	Giannotti O	12343-4	Gomes P	8668	Grant A P	10126	Grön S L	14465
Gäumann E	7881	13016		9430-1		Grant R	10982 16021	Groningen Landbouw-	
Gaumnitz C B	12557	Gibb D B	14180	Gomez A	10497	Gras F H le	9014	proefstation en Bo-	
12941		Gibbons W J	15788	Gómez M R	11296	Grasse P P	13056	demkundig Instituut	
Gautier C	12161	Gibbs J A	10124	Gomez O J	10981	Grassi L	10983	T N O	16272
Gautier J	14865	Gibson A	12707	Gomez-Menor		Grath	11391	Groot H de	10898
Gautier-Walter A	13620	Gibson C A	13985	Ortega J	12826	Graton A	11930	Groot P W de	14354
Gavrel R	13781	Gibson D L	15992	Gomez Romero F	10321	Gratzl E	11605	Grooten R	15343
Gaylord I	9127	Gibson J M	12708	10321		Graves G	9131-3	Grootenhuis J A	
Gayre G R	14657	Gibson M	14181	Gonzalez A de J	10897	Graveux	15339	10238	
Gearhart C R	11387	Gibson T	13900	Gonzalez L G	14462	Gravier J F	13149	Grootjans A	15482
Gebert	9425	Giedosz B	10860	González Mada-		13326		Gros L P	12628
Geddes S J	14179	Giesecking J E	9746	riaga E	14303	Gravit A	13859	Grosch D S	12872
Gee H C	10017	Gifford J L	13549	González Marini H		Gray H E	12626 13399	12882	
Geesteranus R A M	7707	Gilardi R L	8614	11289		14463		Groschke A C	11757
Geete E	10320	Gilbert E J	16157	Gooch E G	15243	Gray J P	7946	Gross F	8073
Gehrich H	14822	Gilbert S G	14485	Goodacre W A	12443	Gray N	11297	Gross J	14757
Geiger J E	12441	Gilbertson W E	12765	Goodall G E	13227	Gray T D	9134	Grossbard E	9752
Geiger M	9911	Gile B M	15335	Goode C E	11390	Gt Brit Colon Off		Grossberg J	8237
Geiger R	10469	Gileadi D	9428-9	Gooderham C B	12516	13476-7 15340		Grosserer-Societets	
Geiling E M K	8404	Giles D L	8121	Goodman A A	12078	Gt Brit Customs and		Komite	16023
Geinitz B	12442	Giles J E	9517	Goodsell W D	15590-1	Excise Dept Statis		Groszmann H M	8849
Geiss W	14459	Giles N H Jr	8121	15625		Off	16022	Grove E W	15188
Gelder C H	13435	Gill B	10495	Gorbitz A	13621	Gt Brit Imp Inst		Groves D E	15791
Gele M	12233	Gill D L	7884-5	Gorby G	10384	Consultative Com		Gruber R J	15112
Gelin O E V	13398	Gillard A	10861	Gordon C D	11676	on Insecticide Mate-		Gruen F H	15344
Gelinder C F	9525	Gillespie W F	10761	Gordon C W	14570	rials of Vegetable		Gruetzmacher L C	
Geluk J A	13838	Gilligan G M	8263	Gordon E R	9129	Origin	12320	13657	
		14525		Gordon G E	11131	Gt Brit Land Fer-		Grushvitskii I V	8238
		Gilmore L O	11388	Gordon H M	12079	tility (Res) Fund		Gualandi G	11300
		Gilson H	10496	Gordon J R	11524	9885			
		Gilson W E	11475	Gordon R F	11825	Gt Brit Milk Mktg			
		Bindel I	8072	Gordy F	11929	Bd	11132		
				Gordy J F	11826				



Item		Item		Item		Item	
Gualazzi A	15649	Hall H S	13552	Harrington J F	8437	Hawkins P A	12085
Guba E F	7633	Hall I F	15212	Harrington L	9629	Hawks S N Jr	8696
Gubbels J W	8788-90	Hall M D	11758		10697	Hay W D	10900
Gubin A F	12517	Halleman A	7890	Harris F S	15794	Haydak M H	12451
Gubin E K	15135	12944	15007	Harris J C	14186	Hayden H	13278
Gudmundsson P	13150	Hallgren H	11137	Harris J H	9154	Hayes D J	15796
Guerande	11931	Halliday H E	8963	Harris J W	15441	Hayes R	14469
Guerande C	11677-80	Halliday O E	10031	Harris K L	14576	Haynes K H	15921
Guerin B C de	13860	Halliwell A N	15136	Harris K W	16070	Haynes R D	14824
Guerin G	13327	Hallows R J	11933	Harris L E	10985	Hays G L	13693
Guerrant N B	16111	Halnan E T	11759-60	Harris M	14176	Hayslip N C	12828
Guidotti L	10499	Halpin J G	11818	Harris R H	14577	Hayward W	9156
Guilbaud J	15650	Hamblin S F	9144-8	Harris R S	16071	Hazard J O	10323
Guilbeau W F	14844	Hamblyn C J	9555	Harris T M	7589	Hazard R	11461
Guilfoyle J M	13658	Hamilton A P F	9820	Harris T W	15485	Hazlitt H	14808
Guilhon J	12083-4	Hamilton C M	11843	Harris V C	9575	Head A E	10591
Guilhon M	12446	Hamilton J	8212	Harris W D	14870	Headington R C	15651
Guillebron M de	14574	9018		Harris W H	14420-1	Heady E O	15488
Guillemet R	14575	Hamilton L H	12108	Harrison	13862	Heal R E	13013
Guilleret	15345	Hamilton T S	10899	Harrison C J	9677	Heale W	12050
Guimaraes A P	13785	Hamlin M E	10832	Harrison C M	8615	Hearmon R F S	10642
Guinier P	10355-6	Hammar C	12448-9	Harrison D L	14751	Heath O V S	8250
Guinot R	14867	Hammalund L	12827	Harrison G L	12450	Heaton D	12452
Gulisashvili V Z	8239	Hammen L van der		Harriss R	14467	Hebden A	12519
Guillickson T W	11388	8074		Harrow K M	10662	Hebert T T	7988
Gulliver G	15792	Hammer O H	12321	13058		Hedemann-Gade E	10277
Gunderson H	12710	Hammond A E	13660	Hart L R	14308	Hedge A M	15703
Gunderson N O	13900-1	Hammond J	13717	Hart S H	14705	Hedlin W A	9559
Gunn C H	11507	Hammond W R M	14938	15213		Heemstra L C	11833
Gunston J	10500	Hamner C L	8286	Hart V B	15214	Hegdall L	14311
Günthart A	15346	Hamner K C	8075	Hartard Ebert M	14528	Hehn E R	8488
Gupta S R D	12776	Hancock J L	11302	14838		Heide B van der	13863
Gupte R G	15709	Hand D B	13661	Hartman A J	14381	Heidebrecht A A	12147
Gusev I	15483	Hand J A	14704	Hartman L A	10716	Heidendahl N M	8567
Gusler G	14703	Handley R C	13371	Hartman R C	13372	Heidenreich V T	9983
14936		Hanges A J	15920	Hartmann E	15795	Heighton H	9157
Gussoni L	13151	Hanger F	9149	Hartmann H T	8246	Heikinheimo O	10503
Guthrie E S	13924	Hankes L V	13913	Hartmus L E	14187	Heil A	8718
Guthrie J E	11832	Hanna G C	9450	Harvey B H	8616	Heilbron Sir I	8198
Guy R	8240	Hannah H W	10019	Harvey E W	15114	Heim R	7723
Guyatt R H	9141	15348		Harvey P H	8143	Heinänen P	10592
Guyer R B	14349	Hannay F	9150	8495		Heinicke A J	14470
Guyot H	14305	Hansen C J	8242	Harvey T W	15486	Heinig E	13553
Guzman V L	9553	Hansen F K	14380	Harvey W A	9556	Heinrichs P	14471
Guzzini D	7889	Hansen H R	7756	Harwood P D	11832	Heinzelman D C	14894
14306-7		Hansen J	15592	Hase A	12630	Heinzl O	1214



	Item		Item		Item		Item		Item
Heusser J	8791	Hoffman R M	7893	Hope C R	15513	Hull F H	8490	Ind Hort Soc	8722
Heutte F	9161	Hoffmann A	12634	Hopf K	11936	Hulshof H J	10721	Infante G	7895
Hey	12632	Hoffmann E	11685-8	Hopfauer M	13204	Human J P E	12814	Ingalls W L	11841
Hey A	7774	11725 11761	11865	Hopkins D P	9726	Hume E P	7591	Ingersoll B	14879
Hey G L	12326	11934-5		8984 10212	16112	Hume H H 9171	12681	Inglis J S S	11629
Heyer	8792	Hoffmann F E	12051	Hopkins E F	14424	Humphrey C M	15801	Ingram C	11939
Heyne F G	7753	Hoffmann P	10988	Hopkins G H E	13060	Humphreys L R	15492	Ingram J W	12950
Hibon J	9890	11142		Hopkins H T	8256	Hunger E A	10128	Ingram M	14752-3
Hicks E W	13509	Hoffmann W J Jr	13663	Hopkinson L T	15116	Huni A	15595	Ingwersen W	9175-9
Hicks S D	12633	Hoffsommer H	15653	Hopper W C	8619	Hunnicut W D	11216	Ink D P	8338
Hiemeleers J	14312	Hoflund S	11513	13554 13945	13960	Hunt C G	8621	Inman B T	15643
Hietaranta M	13984	12086		14708-9		Hunt E L	11840	Innes D	8492 10990
Higgins F H	9561	Hofmann	12235	Horatiis M de	10571	Hunt G	15802	Innes R F	8406
13328		Hofmann A	16256	Horlacher M	15926	Hunt P	14047	Innocenzo S	12150
Higgins J A	15924	Hofmann-Jena F	12129	Horn A	10593	Hunter H	15094	Institut fur Landtech-	
Higgs C	14872	Hofmaster R N	12943	Horn A G	10764	Hunter H R	15493	nik der Maxplank-	
Hijkema P J	8568	Hofsten C G von	7831	Horn M J	13510	Hunter J H	9015	Gesellschaft	13331
Hilbert F L	15115	9564 10989		Hornstein L	14176	Hunter W A	14197	Instituto Agrario	
Hill D C	14048	Hogan M	15442	Horowitz H	15247	Hurd L M	15248	Argentino	15803
Hill E C	9153	Hogarth E A	12529	Horton-Smith L G H	15654	Hurff E K	8721	Inter-American Conf	
Hill G W	15710	Höge H	9892	Hoser S	12237	Hurford A W	10454	on Conserv of Re-	
Hill H O	7909	Hogg J	13294	Hosier A J	10901	Hurlbut H S	12781	newable Nat Re-	
Hill R R	10127	Hogg P G	9565	Hostetter R	15443	Hurlbut L W	13153	sources	16246
Hill W W	10506	Hóie J	11762	Houdlette H A	15993	Hurley P J	9172	Inter-American	
Hiller	15008	Holbert J C	12236	Hougan M C	13205	Hurley R	15625	Devlpmt Comm	13478
Hilli A	9562	Holden J 9893	10239	Houghland G V C	9441	Hürlimann H	10024	Inter-American Inst of	
Hillig F	13917-8	Holdsworth M	8250	Houlahan M B	8135	Hurpin J	12456-9	Agr Sci Admin Com	
14941 14954		Holec E	8967-8	18405		Hurst F	8622	16247	
Hills B	9162	Holgate K C	14472	Houldson E C	14766	Hurst W M	13280	International Cotton	
Hinchcliff K	13391	Holland B R	9630	Houmann L	15053	14102		Adv Com	14200
Hindmarsh W L	12109	14874		House F	16134	Hus F	12330	International Emer-	
Hine G L	13203	Holland D	14698	Houseman E E	16292	Husmann K	14581	gency Food Coun-	
Hine H J	16160	Holland H	12327	Houston R	8711	Hussey R F	12830	cil	16024-5
Hinko T	14873	Holland R F	14050	Hout F van	11764	Huston E	9173	International Fed of	
Hinton H E	12946	Hollard B	9164	12005 12149	14944	Hutcheson C B	9895	Agr Producers	16243
Hinton J J C	14580	Hollard M G	11214-15	Hovanitz W	12948	Hutchings S J	12949	International	
Hinton T	12716	Hollenberg A H	13295	Howard C G	15800	Hutchins M C	14452	Harvester Co	13665
Hintze L C	10725	Höllrich R	11394	Howard H E	10737	Hutchinson C R	15928	International Labour	
Hiorth G	8255	Hollingsworth	10844	Howard R	10022	Hutchinson J	11145-6	Off	15930
Hipple J L	13253	Hollje-Luerssen	15351	Howard R G	10023	11396		Ioppolo E	11166
Hirsch D E	11140	Hollowell E G	14875	Howard T	10281	Huter R	9896	Iorns B	10327
Hirschfeld W K	11306	Holm G	15245	Howe R W	12328	Hutson J B	15095	Iowa State Apiarist	
Hisazumi H	16205	Holm J G	11143	Howell J T	7667-8	Hutter	15655	12460	
Hitchcock A E	9563	Holman C W	15352	Howell M J	8386	Hutton C E	9789	Iowa State Col	
Hitchcock J H	12110-11	Holman L E	14852	Howes H	11689	Hutton J	11690	Statis Lab	16293
Hitchin H E	12454	Holman R L	13436	11765 11937	12455	Hutton K E	7776	Iowa Swine Prods	
Hitchner S B	11835-6	Holmes G	11763	Howes P G	12266	7894 8257		Assoc	12238
Hite J	14952	Holmgren A	10570	Howse A C	11838-9	Huysman H S C	7711	Iraq Princ Bur of	
Hitt H L	15797	Holmslett J B	13170	Hsiung P H	15490	Hyatt O D	9174	Statis	16026
Hjelm L	13349-50	Holmström S	13329	Hsu K C	12780	Hyde S	10455	Irianni A	13154
Ho E A	11462	13718 14405	14942	Hsu T H	11462	Hyler J E	10560	Irish Terrier	
Hoadley T C	16161	15925		Hsu W S	12717	10594-5 10643		Club of Amer	11437
Hoak C M	9163	Holstein-Friesian		Hua H M	9708	Hyman J & Co	12331	Irvine O R	14048
Hobart C	9891	Assoc of Amer	11144	Huang S C	15594	Hynes E	15728	Irving G W Jr	7586
Hobbs C S	11087	Holm H N	10021	Hubach C E	13787	Igolen G	14877	Irwin J W	7633
Hobel R	10280	Holtan H N	9165	Huber L G	11309-10	Igot Y	10282	Irwin R F	10456
Hobson B N	14194	Holtum R E	9166	Huberty M R	8839	Ihlen N N	10326	Isaacs D R	10025
Hochberg N	8965	Holway C P	9166	Hübner F W	8793	Iljin W S	7777	Isely D	7669
Hock A	13772	Homan J L	13838	Hucker G J	13664	Ill Dept of Agr		Iversen C E	8623
Hockensmith R D	15215	Homann H	12563	14046		Div of Grain Inspect		Isnard J P	11463
Hockey K C	7775	Home Grown Threshed		Hudig J	9709 16206	at Chicago and East		12151	
Hodge C H	10020	Peas Joint Com	9440	Hudson J P	9167-9	St Louis	14582	Issoglio G	14583
Hodges E M	8618	Homewood R A	11395	Huelin F E	14473	Imhof A H	15929	Italy Ispettorato Agra-	
Hodgson R E	13373	Homeyer M	15799	Huff W H	15491	Imset O	10765	rrio Compartimentale	
Hodgson R W	8839	Honan J E	14017	Huffaker C B	12267	Indian Cent Cotton		per le Venezie	15174
8843 8850		Honegger E	14195	12329		Com	14198	Iversen K	9897
Hoecker R W	14382	Honl	14089	Huggart R L	14411	Indian Jute Mills		Iverson V E	8258
Hoekstra P	15727	Honstetter R	12004	Hugh E	11500	Assoc	14199	Ives P T	12718
Hoekzema J P	11141	Hood E G	13985	Hughes A M	12559	Indian Tea Assoc		Iwig D J	16235
11837		Hood K	14943	Hughes C E	12130	9631		Iyengar B N	11147
Hoerner J L	12947	Hoofdbedrijfschap voor		Hughes F G	9170			Iyengar D K	15711
Hoff C C	12561	Zuivel Margarine		Hughes H M	8794			Jacinto Burgos J	16257
Hoffer C R	15798	Vetten en Olien	14876	Hughes M B	9442			Jack E L	13986 14049
Hoffman E	11795	Hooghoudt S B	9707	Hugo A	14196			Jackman E R	13263
Hoffman M B	8216	Hooker L W	10833	Huguet F 8489	14474			Jacks G V	10130
8925 8966		Hoopen W T	11307-8	Huisman H J	13864			Jackson E T	15729
Hoffman R L	12562	Hooper A D	15246	Huizinga T K	9710			Jackson F L	10457
		Hooper M M	12522	Hulbert L S	15927			Jackson J M	13666
		Hoover R F	7666	Hull A C Jr	8620			Jackson I E	15465
								Jackson N A	13264
								Jackson T R	13155
								Jackson W R	13294
								Jacobs A	13303



Item	Item	Item	Item	Item	Item	Item
Jacobsen H 14201-2 16294	9550	John R A 13425	Julén G 8584	Keithahn R R 15730	King D F 11692	11942
Jacobson G 9525		Johns H 10416	Júliussón F 9728	Keitt G W 7997	15497	
Jacque R 13595		Johns L H 12019	Jull M A 11940	Kelbly H G 9632	King E L 8127	
Jacquot C 7712		Johnson A D 13401	Julsingha J van 14537	Kell J 14432	King F P 15359	
Jaeger P 7592		Johnson A R 13479	Juncker F 8627	Kellenbarger S 8494	King G H 8698	
Jagerschmidt 10806		Johnson A T 9183-4	Jungfleisch M 15138	Keller A G 15054	King G S 8274	
Jagoe R B 14584		Johnson A W 9691	Junqueira J F D 11647	Keller B 14203	King H E 14205-6	
Jain N L 14481-2		12814	Jurén L 13720	Keller H 9901	King J 15498	16059
Jaivenois A 8796		Johnson D G 15189	Jussiant J 16028-9	Keller J C 14880	King J A 16258	
16207		Johnson E P 11836	Just T 7582 7595	16031	Kingscote A A 9194	
Jajin H A 13788		Johnson F H 7989		Keller K R 8125	Kingwill R 12053	
Jakovliv G 13667		Johnson G 9185	Kaas J 15249	Keller W 8262	Kinn T P 10781	
Jakubowski S 10991		Johnson H A 14945	Kaatman H W 9191	Kelley W T 14659-60	Kinnunen E J 14316	
James E 8624 11865		Johnson H W 7898	Kadensky B 13480	Kellogg C E 9692	14351	
James H 15494		Johnson J L 13332	Kadocsa G 12951	9791-2 14711	Kirby C K 11473	
James H B 15096		Johnson L 13988	Kahana J 11849	Kelly G W 9193	Kirby F L 10127	
James L E 11823		Johnson L H 8258	Kaiser E F 10596	12635	Kirby R E 10781	
James M T 12719		14314	Kaiser W 7780	Kelser R A 10993	Kirby R H 14207	
James S C 9180		Johnson M 8260	Kaiser W G 13374	Kelsey F E 8404	Kircher J C 10808	
Jamieson M 8182		Johnson M M 7985	Kalabugin A TA 13460	Kelty R H 12463	Kircher W H 10034	
Jamison H E 13961		Johnson N W 15153	Kalamkar R J 7869	Kemény A 12464	15808	
Jancke O 12831		Johnson P R 9630	Kalberg V 10660	Kemmerer A R 11203		
Jandolo E 15931		Johnson R 10198	Kalesnik S V 9790	11218	Kirchmeyer F 9904	
Jane F W 10644		Johnson S C 9186	Kalich J 11478	Kemp H K 10031	Kir'falov N P 8407	
Janes B E 10026		Johnson S E 15355	Kalinina A V 8041	Kemp W B 13962	Kirillov F F 8970	
Janes R L 12332		15656	Kalischer M 13669	Kempianka W 10250	Kirk W G 8618 11221	
Janicki J 12720		Johnson V W 15495	Kallbrunner H 10283	Ken K C 13990	Kirkpatrick W 13866	
Janikowski T 14103		Johnston W H G 10572	Kallert E 14826	Kenchington K W L 14204	Kirkpatrick W G 15360	
Janiszewski J 11311		Johnston C N 10028	Källström V 13437	Kendall J R 15190	Kirksey G 10994	
Janssen R W 15009		Johnston F B 14463	Kalmbach E R 12335	Kendall K A 11219	Kish A F 11693-4	
Jaquette D S 11842		Johnston F S 13555	Kalmer J 8851	Kendrick M S 15214	14947	
Jarl F 10902-3 12112		Johnston H L 15804	Kalyanasubramanyam S 7912	Kennedy A H 11529-31	Kist J M 8570	
12112		Johnston S 7778 8893	Kamen M D 8233	Kennedy R Jr 13991	Kitchin-Kerr G E 14317	
Jarvis C S 8259		Johnston W B 10573	Kamenicek L 15356	Kennel Club 11438	Kitzmiller J B 12832	
Jaškowski L 11148		Johnstone W C 8610	Kamer van Koophandel en Fabrieken voor Zuid-Holland 16030	Kennelly A G 9447	Kivinen E 15694	
12564		Jones A H 14463	Kammerer E L 9192	Kennev S M 11941	Kjellander F 12336	
Jaubert G F 16208		Jones D 13402 15596	Kamprath W 10807	Kenward F 12465	12466	
Jaume J 11397		Jones D B 13510	Kanash S S 8569	Kenworthy A L 8263	Klaar W J 14552	
Jaumes 14585		Jones D J 12172	Kankare A 8441	Kenya Customs Dept 16032	Klang C A 12337	
Jaumes L 13668		Jones D L 13177	Kannan A 13919	Kephart L W 9568-9	Klapwijk J G 12637	
Jayme G 10766		Jones D P 12333	Kannenbergh H 9767	Kepner R A 13120	Klas J H 14767	
Jeanes A 13511-2		Jones D W 8618 11221	Kans Farmers Co-op Assoc 14588	Kerk G J M 7901	Klaus E 14768 15361	
Jeanson P 13789-92		Jones E W 10992	Kans State Bd of Agr 16164	Van Der 7901	15657	
Jeansonne R J 8440		11464	Kans State Bd of Health 15806	Kernkamp M F 7854	Klein D T 8265	
Jeffers D S 10834		Jones FR 13333	Kans State Hort Soc 8723	Kerr K B 11847	Klein G T 11848	
Jeffers W F 7896		Jones FT 13514	Kaplan M M 10865	Kers D H 9448	Klein K 8971	
Jefferson M E 14894		Jones FW 14839	Kapoun R 11372	Kesel H 9633	Klem G G 10510-11	
Jefferson R N 12721		Jones G D 8613 9899	Kapusiński S 12884	Kessler E M 14051	Klemfuss H C 15362	
Jeffery E C 8124		Jones G E 15805	Kare M R 11845	Kessel E L 12722-3	Klemm M 7781	
Jeffries C D 9727		Jones G O 12461	Karimullah 9608	Kessler H 8798	Kliesch 11088	
Jegorow W 8625		Jones J 16114	Karling J S 7714	14478	Kliwer I O 11285	
Jelenikova A 11622		Jones J M 14710	Karra V 15358	Kessler K L 14479	Kline A 15363	
Jelmoni E 13033		Jones JR 14105	Karsnitskaia M 13921	14478	Kline E A 14837	
Jenkins A E 7713		Jones L C 14383	Karunakar P D 9900	Keyres G E 8724	Klingman G C 9570	
Jenkins B C 7942		Jones P H 10029	Karunina L 13920	Khachatryan A G 10032	Klinkowski M 13061	
Jenkins M B 10415		Jones R 9187	Kastli P 13922	Khambanonda I 8126	Klitsch C 8669	
Jenkins M T 8493		Jones R E 12523	Katz S J 7899	Khan A H 12636	Klosa J 9634	
Jenkins W A 7897		Jong C de 9188	Katznelson H 9753	Khanbekov I I 10509	Klosterman E W 12073	
Jenness L C 10767		Jong W de 11399	Kaufert F H 7900	Khodzhaev T 9733	Klotz L J 7902 8839	
Jenness R 13980		Jonghe de 9443	Kauffman H H 14946	Kidd R M 11395	Kloxin S 14952	
Jennings B A 10027		Jonkheer P N 9189	Kauffman W 12855	Kidson A L 10284	Knapp G W 14948	
Jensen C F 10507		Jönköping Lant-brukskemiska Kontrollstationen 16162	Kaufman H F 15807	14315	Knapp J G 15933-5	
Jensen E S 9566		Jönsson I 9444	Kaurichev I S 9279	Kidson E B 9838	Knauber H 13507	
Jensen F E 10508		Jordan G L 14586	Kaven G 9445-6	Kiefer M E 15292	Kneale J L 11150	
Jensen J N 9567		Jordan W 14050	Kawecki Z 11024	Kieffers H 14712	Kneuttinger 15250	
Jensen K 16027		Jordano D 11642	Kay H D 13865	Kielanowski J 11737	Knight D F 11151	
Jeppson L R 12565		Jörgensen E G 7699	Keenan A F 13556	Kielczewski B 12952	Knight E B 15499	
Jepsen G 14475		Jörgensen H A 8261	Keener P D 7964	10285	Knight R S 10123	
Jerstad A C 11843		Joris 14106	Kestra F 13989	Kieser F 12006	Knodt C B 14051	
Jeskey H A 14856		Jörissen J 14587	Keetch J J 10459	Kikuta K 7876	Knosp G 9905	
Jesness O B 15354		Jørstad I 12334 12375	Kefford J F 13606	Kilbuck J H 14347	Knott J E 9450	
Jessen K 7593		Jósafatsson G 8626	14477 14789	Kildee H H 14713	Knotzinger O 9195	
Jeude L 11691		Jose FR 16092	Keidel B 8042	Kile O M 15932	Knowles F L 9571	
Jllmer 9898		Joseph L 12888	Keidel H J W 11846	Killian C 8264 9793	Knowles W H C 8689-90	
Jilek J 11311		Joshi R D 12462	Keirns V E 8160 9527	Killinger G B 9903	Knudsen L F 14576	
Jirgensons B 13513		Josserand M 7594		Kilmr W S 11149	Ko P F 10453	
Jiricek L C 13987		Jougan E 7779 8797		Kimbrough W D 9449	Koch H 15809	
Jobbins D M 12782		9190 14470		Kimmel E S 10033	Koch M 10904	
Jodon N E 12950		Joyce C R 12783		Kinberg W 10444	Koch P 10561 10866	
Joffe J S 9690		Jucci C 12784		Kincaid C M 11220	Kock G de 13992	
Johansson E 8892		Juel-Brockdorff E 12052		12065	Kockman N 11152	
8869				Kincaid N J 11857	Kocman J 12188	
Johansson I 10864				16033		
11398 11508						
Johansson K R 11844						
Johansson T 9181-2						



	Item		Item		Item		Item		Item
Koegel L	16209	Krewatch A V	14949	Lachman W H	8272	Larson R E	9453	Lefevre P C	12835
Koenig P	10286	Krider J L	12152-3	9573		Larue P	8974	Leifer H T	15097
Koepen E	12007	Kriebbaum	10035	Lacombe R	13336	12341		Legendre G	9639
Koert J L	12724	Krieger H	10620	Lacourcière L	10810	LaRue R G	8839	Legg E R	13558
Koerver C	14052	Krienke W A	13902	Lacy B R III	7783	La Selle de	15197	Leggett J T	14485
Koetter H	9984	Kriesel H C	14950	Ladejinsky W I	15366	Lasserre R	11612	Legori E	10999
Koffsky N	13623	Krige I M	11400	Laer M van	16115	Latchem C	13094	Le Grand L	8443
Kofoed C A	15557	Krimbas	14319	Laffer L H	13481	Latham A	12467	Legwen W A	12786
Kogan A	11089	Krimbas B	13795	Lafferty J E H	11945	Latham B	10598	Lehmann E	7904
Kogekar S V	15810	Krishna S	7671	Laforest G	8496	Latham E	16166	Lehrbas M M	10563
Kohl R B	14318	Krishnamurti C R	14054	9908		Latham J O	11768	Lehuraux L	15368
Kohler R	8442	Krishnaswamy V	8145	LaFortune J G	10996	11854 11946		Leibundgut H	10836
Kohn M	9693	Kristjánsson K K	9906	11610		Lathrope H R	8497	Leichsenring J M	16117
Kokuev V I	8571	Kritzing C C	14754	Lagarde J	9452	La Touche C J	7844	Leidl E	13450
Kolachov P	14636-7	Krölling O	11609	Lagarrigue J	12640	7846-7		Lein J	8135
Kolbe E L	10387	Kromdijk G	9196-9	Lagaude H	12641	Latting E T	9207-9	Leitch C C	15502
Kolk H	9572	Krone B P	14320	Lagos J A	10240	Lattner E J	13304	Leite J	15251
Koller E F	13867	Kronraff K	15501	La Greca M	13015	Lauerbach	14590	Leithe W	10215
Kollmann F	10627	Krook M	9200	Lahey F N	10628	Laulan R	12468	Leitner H	15252
Komaroff A	11849-50	Kruedener A Freiherr	10288	Lahiri B M	11314	Laumont P	8498-9	Lejeune J B H	8444
Komarofski B	8266	Kruijk P A	16034	Lahousse J	13515	9638 14591-2		Leland A S	15369
Komarova E S	8972	Krukovsky V N	13924	Laipille E	10241	Laurens R P	7903	Le Maistre W G	12469
Könemann E	15742	Krumbiegel I	16210	Laird Bissel &		Laurentian Forest		12525	
König A F A	14769	Krumin'sh K	9694	Meeds	14209	Protect Assoc	10445	Lemesle R	8080
König F	8628	Krümmler H	8269	Lal G	14481-2	Laurie A	8079	Lemierre R	14608
König H	12953	Kruse C W	13014	Lal K B	12269	Lauritzen J I	15036	Lemon J M	15117
König R	15811	Kruti J	14055	12834		Lauro G di	12566	Lemonnier R	14486
Kononova N	12380	Kruti J	14055	Lam H J	7597	Lauterbach W J	14593	Lenander S E	7966
Koot I van	7782	Krzemien J	11313	Lama E	15660	Lauwers R	9454	78726	
Kooyman W	9451	Krzyszowski J	9927	Lamb G N	10645	Lavie P	12423	Lenert L G	12786
Kopelson A R	14839	Kubelka V	14714	Lamb R C	8273	Lavollay J	8276	Lenglen	10184
Korkman N	11153-4	Kubin G	12191	Lambert C	13228	Lawler E A	14953	Lenngren C E	13305
11222 12189		Kuchler A W	7596	Lambert N	9203-4	Lawler F K	13557	Lenskii L	10305
Koroleff A	10562	Kudrna J	11313	Lamberti E	7784	Lawrence E	9210	Lent F	13963
Korolev A	13993	Kuenen D J	12339	Lamberts H	8631	Lawrence Mrs M A	9211	Lenz G	12192
Korprich H	11155	Kuester L J	9201	Lambou M G	8274	9211		Lenzi A	15438
Kosik O	14790	Kugenev P V	13925	Lamego A	15055	Lawrence W J C	9455	Leon L V	11569
Kosikowsky F V	14053	Kugler H L	13093	Lami R	8078	Lawson H M	15936	Leonard O A	9530
Kosinsky	13793	Kugler W F	8629	Lammerts W E	9205	Laxminarayana H		9575-7 9911	
Kossar W	8043	8670		Lammert A	8725	13934 13974	13990	Leonard R O	10599
Kossen S	13794	Kühlwein H	8270	Lammers R P	8799	Lazzerini O	10998	Leonard T	15503
Koster J T 7636	7670	Kuhn W	12672	14408		Leach J G 7828	7991	Leonard W H	15366
Koster K	10287	Kuhner M	15659	Lamond H G	11091	Leach T	13997	Leone I A	8279
Kostin P	13868	Kuhner R	7715-17	Lamont N	10036	Leal Moreno T	8500	Leont'ev I F	7601
Kostoff D	8267	8076		Lamounier R D	11315	9986		7992 9754 11613	
Kostrov N I	11090	Kuiken K A	14951	Lamur F	15814	Leão A T	11465	14882 16118-9	
Kotatko J	15658	Kujawski J S	13671	Lamy	14483	Lear B	10173-4	Leont'ev N L	10646
Kotlán A	12190	Kuk G	14056	Landman L	9909	Lear J	13254	Leopold A C	8280
Kottcamp J P	14208	Kulcke	12154	Landon H I	14770	Leatherman S B	9212	Lepage H S	13016
Kotte W	12638	Kulescha Z	8408	Landon W E	12565	Leavenworth C S	8419	12343-4	
Koutz F R	11851	Kull K E	11766	Laneau R	13797	Leavitt K	16167	Lépine P	11000
Kovats J	13670	Kumar S	8060	Langfranchi A	10997	LeBeau O R	14422-3	Lepper H A	14954
Kowal R J	12885	Kummerow F A	14952	Lang A L	10199	Lebedeff G A	8501	Le Riverand J	15056
Kozhanchikov I V	12268	Kung K	11944	Lang W R	14210-2	Lebedev D V	7598-600	Lerma B de	13062
Kozharin K	13994	Kunitz M	8409	Langdale H	10738	8128-32 12271		Le Roy Baron	13798
Kozlov A	13923	Kunkel L O	7990	Langdon J L	11767	12725		Leroy A M	12156
Kozmenko A S	10132	Kupka H	9202	Lange M	7718	Lebel L	15937	Leroy G V	11466
10847		Kuratorium fur Tech-		Langenfeld A L	11509	Lebied B	12762	Lery G	12239
Kozminsky R	15812	nik in der Landwirt-		Langer C A	8275	Leblois C	11316	Leslie W R	9213
Kozo-Polianskii B M		schaft	13335	Langer P H	11535	Lecomte H	8699	Lesne L	13870
9635		Kurir A	12340	Langevin E	8800	Lecrenier A	8277	Lester J	10037
Kramer	15500	Kurtz L D	8630	Langhard O	13869	Lederle Labs	16116	Leukel R W	7905
Kramer A	13591	Kushman L J	8271	Langley C G	12524	Lee B Y	14213	Levada A	15661
14348-50 14407		Kuster E	8077	Langseth R	15731	Lee F A	14484	Levanidov L IA	9678
Kramer H A	14589	Kuswa W	14057	Langvad B	9206	Lee F E	8976	Leveck H H	12064
Kramer P J	8268	Kutter F	13796	Lansigan N P	10835	Lee I M	13624	Levenbook L	12726
Kraneveld F C	11852	Kuyper A C	13597	Lapierre	14585	Lee J G	11158	Levi I	8548
Kranick F N G	13334	Kuznetsov K A	9794	LaPierre G	9637	Lee J W	14594	Levie E L	15598
Krantz B A	8495	Kvaale E	9907	Laplaud	11157	Lee S H	7672	Leviell F	7993
Kratzing J	16072	Kvicala B A	12833	12057		Leeds U Dept of Agr		Levine A S	14412
Kraus J	15364	Kwasieboriski M	11156	Lappi-Seppälä M	10289	Econ Sect	15556	Levine P	11614
Krebs E	12639	Kyed J	13996	Lardner G B S	10358	15597		Levine P P	11813
Krediet P	13838			Large J R	7785	Leedy D L	7755	11855	
Krehan H 11943	15365	Laan P A van der	9747	La Rivers I	12270	Leefmans S	12342	Levinstein H	14214
Kremer J C	8286	Laarhoven J H J van	10905	La Rosa Llosa R	11853	Lees A D	12567	Levy H	8281
Krenn E	12025	Laborey F	8276	Larrea A	8973	Leeson H S	12785	Lewert R M	11856
Krenn J	13995	Labouriau L G	15813	Larriba R de	11611	Leeuwenhoek A van		Lewey R	13395
Kress F	10995	Labrie	10809	Larroque R	13237	16211		Lewis C E	9214
Kretovich V L	16113	Lacaz C S	14062	Larsen H	9985	Lefebvre C	13394	Lewis D D	10038
Kretzschmar G P	12338	Lacey J J	12155	Larsen H C	15153	13426		Lewis R D	13156
Kretzschmar K	14881			Larson C	9910	Lefebvre A	15815	Li C H	11447
				Larson J D	9574	Lefebvre C L	7762	Li H L 8044	7673-5
						Lefebvre G	15139	Li P F	9453
						Lefeuve R	15367	Li Y H	10328
						Lefevre J	15732	Libowitzky A	9215
						15938		Lichtenberger	13157



<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>
Lidl 10388	Lomnitz-Waldhof 11648	Lundin A 13351	MacGillivray J H 10042	Magruder R 9459	
Liebermann J 12345	London V 14215	Lundin H 14597	McGinnis J 11885	Magyar I 16076	
Liebster 12346	Londoner D J 11501	Lundin P G 15819	McGinnis J 11951	Mahajan L D 8285	
Liedberg G 16035	Long E R 7908	Lundin Y 8895-6	McGoldrick F 9458	Maher A N 9230	
Lieftinck M A 13063	Long J 14661 14883	Lundstedt A 14488	McGough M L 11196	Maheux G 15942	
Lierman 15504	Long J F 11159	Lung P H 12383-5	McGowan J C 8182	Mahoney A E 15010	
Liese 8502	Long W E 14216	Lupe I 10517	Macgregor N M 9677	Maier 12194	
Liese J 9640-1	Long W H 13158	Lüscher M 12837	McGuire J B 10462	Maier-Bode F W 15154	
Lieu S C 15370	Longfield H F 12203	Lush J L 16274	Machado O 12569	Maierhofer C R 10044	
Lieu Land Comn 15512	Longley W V 15940	Lustig E 8445 10518	Machado O X de B 7678	Maignien R 9776	
Lifshits A 13871	Longmore T W 15444	Lüthi H 13799	McHardy J 11395		
Lillieblad F 13672	Longo A 8980	Lutken T 9456	Macht D I 8284	Main M 13095	
Liljebblad A 8977	Longo A 8980	Lutley E F 11948	Macias P E 12351	Mainardi B 11047	
Liljefors E 11570	Longwill A 12131	Lutman B F 7721	MacIntire C 14324	Makomaski Z 16077	
Lillard J H Jr 10039	Lonkhuyzen J P van 10390	Luttrell C B 10324	McIntosh B J 8404	Maksic D 11616	
Lillie M G 11857	Lönnemark H 13159	Lutz L 10647	MacIntyre A B 11452	Malarski H 10869	
Lima H P de 10726	Lönnquist J H 8504	Lutzy B J 13674		Malassigne J 15823	
Lima J P 15816	Lönnqvist O 7677	Luz Filho F 15175-6		Malaya Dir of Coop 15943	
Lima P de O 9912	Loomis N H 7994			Malaya Forest Dept 10392	
Limasset P 7993	Loosen R 14018	Lyle E W 7909		Malenbaum W 15140	
Lincoln R 14487 16236	Lopez E D 10515	Lyman C M 14951		Malenotti E 12646	
Lindeberg G 9755	Lopez Arias A 12054	Lynch C 13675			
Linden L van der 7786	Lopez Matas A 16120	Lynch J 7787			
8894 12568 12727	Lopez y Ferrer F A 8691	Lynde L A 15820			
Lindenmuth A W Jr 10459-60	Lorck H 8282	Lyndon R 9222			
Lindgren D L 12836	Lord F A 12954	Lyon M D 11467			
Lindholm F 9216	Loreen O W 15817	Lytle R G 13872			
Lindquist B 10389	Lorenz E 9219				
10512	Lorenz O A 9913	Ma R 7586			
Lindquist H G 13998	Loring A B 14322	Maan W J 12348			
Lindquist J C 7719-20	Lorus J 12728	Maarssá S A 11402			
Lindsey A A 7602	Los Angeles Co 16168	Maas J G J A 9642			
Lindsey A H 14955	Calif Agr Comnr 16168	Maas W J 12644			
Lindström T 10906	Lothian N R 8727	McAlpin D M 8852-3			
15505	Lothigius W 10516	McAlpine J F 12645			
Linduska J P 12335	Lothrip E 10040	McArdle A A 11949			
Line E C 14715	Loucks K W 14424	McArdle R E 10811			
Ling E R 13926	Loudwin H 14718	MacArthur M 14463			
Link C B 9217	Loughborough W K 10675	McAuliffe W S 12240-1			
Linke-Crawford E 11695 12008	Loureiro J T J 12643	McBride C G 13964			
Linkola O 14110	Louvain P 8801-2	MacCaffrey J E 10768			
Linon G 11317	Louveaux J 12423	McCain E D 8790			
Linsley E G 16212	12470	McCall M A 16275			
Lipnicki J 11318	Löve A 8081	McCalmont J R 13418			
Lippi-Boncambi C 9695	Löve D 8081	McCann P 11649			
Lishanskii I S 7603	Love E M 10782	McCann P J 11319			
Lisin S S 10513	Love H W 15098	McCargo S 16169			
Listano N 9218	Lövp P J 9914	McCarthy F W 14058			
Lister J H 13375	Loveland A J 14596	McCarthy T 10519			
Littauer F 7906-7 7915 7917 7967	Lovvorn R L 8634	McCarthy-Barry L J 8635			
Little C C 11439	Lowdermilk W C 10133-4	McCaskill L W 16170			
Little E L Jr 7676	Lowe B 14986	McCay C M 16073			
Little S 10514	Lowe T 15057	McClintock J A 8897			
Litton G W 12065	Lowens M D 12760	McClintock R B 9223			
Litzenberger S C 8503	Lowry R K 14772	McClung M R 11883			
Liu C H 9683	Loy G van 13281	McCollum A 11950			
Liu C Y 15371	Loy H W Jr 13516	McCracken 13676			
Ljubchenko N E 8632	Lu S C 12787	McCracken A E 10576			
Liverovskii I U A 9795	Lubatti O F 14351	MacCreary D 12349			
Livestock Prod and Mktg Conf 14716	Luca B de 15662	McCreight M G 13296-7			
Ljones B 8978	Lucas E 8803	McCullough H A 8045			
Ljungman D 15939	Lucas H L 10907	McCullough W B 13419			
Llobregat E 8979	Lucas P S 13946	13482 14719 15372			
Llorens M A 10867	Luce A D 16036	McCully A 9224			
Llovet Mont-Ros J 11401 14717	Luchini G 10868	McDaniel J C 8898			
Lloyd W H 8633	Lucker J T 12087	McDermot N 9457			
Lloyd-Thomas W 11947	Ludorf R 10252	MacDermott P S 14384			
Lobovaia F V 9783	Ludvigsen F P 10381	MacDonald D W 9981			
Lochhead A G 9753	Ludwig K 14217	MacDonald G 12788			
Lockart G F 11001	Luedy A E 9220-1	MacDonald H R 10041			
Locke S 10417	Luedy M V 9221	MacDonald J E 12350			
Lockwood J F 14595	Lugan J 9915	MacDonald N D 14145			
Loden H D 12642	Lugan M 14323	MacDonald S F 12814			
Lodge C 11769 11858	Lukash I I 8565	McDougall F L 16074			
Loff J 15193	Luke H A 14019				
Lohwag K 9578	Lum C-W 15818	MacDowell L G 14411			
Løken A 12347	Lumsden D V 8283	Macedo L T de 11615			
Lombard C 13673	Lun Y P 14884	McElhanneve T A 10698			
Lombardo R A 14771	Lund H O 12642	McElroy L 14450			
	Lund J W G 7749	McFadden E C 8790			
	Lundblad K 10207	McFarland J H 9225			
	Lundh A 7694	MacFarlane D 15373			
		McFarlane N L 12851			
		Macfie D T 9226			
		McGibbon W H 11664			
		McGill D P 8504			







<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>	<u>Item</u>
Montvalon H de 15218	Motta M S 8638	Nadaud F 13461	Neighbour L B 13257	Newell M E 11774	
Monzoni P 8297	Mowat E L 10393	Nadel-Schiffmann M 7729 7907 7915	Neill R A 15220	Newhall A G 10174	
Moers C A 9923	Mowery A S 13221	7917	Neishtadt M I 10248	Newman A S 9735	
Moolman J H 14223	Mowry P 12961	Nag D G 15715	Neiswanger E B 13529	Newman L H 12964-6	
Moon H H 8298-301	Moya M A de 15143	Nagel G C 14662	Neiva A H 15618	Newman T 10529	
Mooney W F 14282	Moyer D D 13210	Nagel W 11326-7	Nekola W 13808	Newton A C 11598	
Moordadian S 14224	Moyer J C 14497-8	Nageotte G J 14038	Nelson A 10249	Newton T 10916	
Moore A C 11596-7	Mozzi U 10051	Nagibin I A D 8569	Nelson A L 10360	Neymark M 16126	
11698 11867	Mucciolo P 14062	Nahm H 15108	Nelson G I 12440	Nicaise A 12482	
Moore A J 13165	14828 14891	Naidu C J R 15685	Nelson L 15446	Nichol C W 10664	
Moore A S 14101	Mueller A G 15602	Nájera Angulo L 12736	Nelson L A 10621	Nicholas D J D 8416	
Moore E B 10514	Mueller A W 16175	Najjar H 7918-9	Nelson R 7798	Nicholas R 15221	
Moore E E 16082	Muenschner W C 7724	8811-5 9650-2	Nelson R H 12260	Nicholds E 11408	
Moore E G 15831	Muijzenberg E W B 13166	9987 10052 12091	Nelson R N 16085	Nicholl S A 13338	
Moore E L 9911	van den 12735	12358-9 12737-8	16237	Nichols C W 8001-2	
14411	13403	12842 12962-3	Nelson W L 13680	Nichols J E 10870	
Moore H 14101	Muir A 9797	13022	Neri L N 7633	Nichols M B 11409	
Moore H I 11227	Muir J 11228	Nalbandov O G 10551	Netherlands Central	Nichols W 10786	
Moore J O 7997	Mukarovsk L 11013	Nalefski L A 11466	Bur v de Statist 13721	Nicholson A E 12363	
Moore J G 9242-3	Mukerji B K 9798	Nambar K K 9583	Netherlands Central	Nickerl A 11959	
Moore R C 8302	Mulder H 13999	Nanavati Sir M B 15685	Instituut voor Land- bouwkundige	Nicolas D S de 11869	
Moore T 11323	Müller E U 10771	Nank E E 8071	Onderzoek 8447	Nie C J van 11846	
Moore W C 7796	Muller F M 14537	Nanneson L 15558	Netherlands Foreign	Niederehe H 14792	
Moore W J 14387	Muller K 11014	Nannizzi A 9468	Propaganda Comn	Niederkrum A 10731	
Moorhouse S 10663	Muller K F L 7725	Nanz R A 13504 13751	for Seed Potatoes	Nieland L T 10420	
11441	Müller O 10649	Narain P 9608	9469	Nielebock E W 11094	
Morales M O 8692	Müller P 13352	Narasu G V 11474	Netien G 7607	Nielsen O 12364	
Morandi L 15713	Muller R A 10293	Narayana G V 13486	Netsch W A 14726	Nielsen V B 9253	
Moras T M de 9924	Müller W 12615	Narayanamurti D 10784-5	Nettle V F 10054	Nieschlag F 9928	
Moreau C 7723 7916	Müller-Idzerda A C 9246	Narayanan A 11328	Netto J F T 11621	Niewiarowicz A 12720	
Moreau M 7723	Müller-Lenhartz W H O 10915 11229	Narut L F 16383	Neubert A M 14499	Nigeria Agr Dept 16178	
Moreaux R 12479-80	11520 12159	Nash J C 10741	Neuhaus E 10602	Nigeria Vet Dept 11019	
Morehouse N F 11868	Müller-Stoll W R 8084	National Assoc of Coop 15219	Neumann R 13681	Nikerl A 11702	
Morel J 9925	Mulrennan J A 12857	National Canners Assoc 16123	Neumayer E M 12087	Nikiforoff C C 9800	
Moreno M M 15428	Muma M H 13021	National Chinchilla Breeders of Amer 11510	Neumayr L 15198	Nikiforov S I 13282	
Moresco E 13526	Mumford C W 11972	National Council of Wool Selling Brokers of Austral 14227	Neuweiler W 16125	Nikitenko I 8511	
Moret 9244	Munch E 10470	National Coursing Club 11442	Nev State Bd of Sheep Commrs 14727	Nikitin P D 10848	
Moretti A 15696	Muniz M 12481	Union	Nevens W B 11219	Niklewski B 10250	
Moretti P 12959-60	Munk A 7726	Executive Bd 15257	Neves C M B 12360	Nikulichev P 14000	
Morey D H Jr 9245	Muñoz B 8693	National Fed of Young Farmers' Clubs 15954	Nevot A 13595	Nilsen A 14061	
Morgan B B 11324	Muñoz Grandes F 15617	Assoc of So Africa 14228	Nevzorov N 10301	Nilsson A 8987 9254-5	
12026 12711	Munro J 9247-8	National Fire Waste Council Agr Com 13096	New England Forest Found 10394	Nilsson F 8906	
Morgan C L 11817	Munro J A 12440	National Hay Assoc 14112	N H State Dept of Health Div of 7608	Nilsson G 8816	
Morgan F C 9467	Munro J M 14205	National Res Council 16084	Indus Hygiene 7608	Nilsson J 12531	
Morgan G 12055	Munro S S 11699	Council Canada 16176	N Mex Feed and Fert Control Off 14113	Nilsson T 7609 15452	
13298 15714	Münster H 11700	Assoc of So Africa 14228	New South Wales Dept of Agr 7799-808	Nilsson-Leissner G 15017-8	
Morgan W L 12356	Münter W 11701	Natividade J V 10528	7920-30 7970-1	Nisbet J C 13211	
Morganthaler O 12572	Muralama S J 9926	Navares P 11018	7998-800 8305	14892	
Morice P 13807	Muranjan S K 15685	Navarro A 14605	12361 16177	Nissley C H 9471	
Mork I 14061	Murayama S J 10247	Navlet A 9251	Biol Br 9470	Nisson E A 14963	
Morley F H W 12734	Murchison C T 14226	Nazarenko I I 11405	Div of Mktg and Agr Econ 15559	Niswander R E 13023	
Morley G M 13208	Murialdo A M 11015	Nazzani F 15669	Ent Br 12362 12573	Niven C F Jr 13682	
Morocco Service de la Défense des Végétaux 13020	Murneek A E 8253	Neale P E 12056	New So Wales Soil Conserv Serv 10140	14793-4	
Morozov I R 10359	Murphy D 15952	Nebr Chemurgy Proj 13528	New So Wales Statistician 13722	Niznansky F 11622	
Morozov V K 8672	Murphy F 11325	Nebr State Irrig Assoc 10053	N Y Dept of Agr and Mkt Bur of Food Control 14114-5	Nobili I 11329	
Morpurgo E 11620	Murphy M M 8956-7	Nederlandsche Alge- meene Keuringsdienst voor Landbouwzaden and Aardappelpoot- goed 15015	N Y Herald Tribune Forum 15513	Noble M 9256	
Morris H D 8303	Murray E D G 11016	Needham J G 12739	N Y State Col of Agr Dept of Agr Econ 15386	Nodland T R 15515-6	
Morris S T 15601	Murray H C 16122	Neethling L J 8027	N Y State Col of Forestry 10837	15562	
Morris W G 10448	Murrill W A 7727-8	Neetzal J R 10419	New Zealand 15387	Noel J C 14606	
10461	Mursell P 8905	Neff M S 9653	New Zeal Co-op Dairy Co 13968	Noiroc C 13056	
Morris W H M 13209	Murto J O 10772	Nègre E 16124		Nolan J F 7610	
Morrison F B 10909-14	Musgrave G W 10021			Nold T H 14389	
12073 14725	Mushtukov E 14063			Noll C J 9476	
Morrison R 9756	Musierowicz A 9734			Nolleau J 15670	
Morrison W F 12275	9799 9927			Nonkes J 8731 8907	
Morse R E 14412	Mussehl F E 8398			8988 9472-3	
Morse R L D 13527	Mussenbrock A 9249			Noraker J 11703	
Morstatt H 7797	Mussett A T 14064			Norbäck G 10361	
Mortenson W P 13967	Mussell J 11017			Nordal O 9257	
Morton W E 14225	Muth W 8673			Nordbø H 13377	
Mos D de 8904	Muyzenberg E W B			Nordby J E 14728	
Moscow Vsesoŭŭznyi Nauchno-Issledo- vatel'skii Institut Agrolosomelioratsii 10139	van den 13404			Nordfeldt S 10700	
Moseman A H 8150	Muziol R 16040			12066 12160-2	
Moser H A 14859	Myers A T 8343			13212 14729	
Moses T 11404	Myers G 15832			Nordin A 13098	
Mosher A T 15951	Myers W I 15385			Nordiske Jordbrugs- forskeres Fore- ning 16279	
Mosier J E 11010	15953			Nordskog A W 11704	
Moskey H E 11011	Myhre A S 9250			Noriega C E 10330	
Moss N H 11473	9952			Noriega C R 11020	
Mossel D A A 13520	Myrbæk K 14604			Norkrans B 8291	
Mossop M C 12357	Myrick N 13947				
Moszczanski Z 11012					
Mote D C 12990					
Motheral J R 15706					



	Item		Item		Item		Item		Item
Normand J	10701	Ohio Seed Impr		Osella E	10201	Paoli G	12893	Pease C H	12535
Norona G	9801	Assoc 8513	15020	Oser J	15258	Papadakis J S	9823-4	Pease M	11705
Norona G G	13809	Ohlson M A	16086	Osmond A	16087	16261		Pease R	15118
Norris F W	16127	Oiticica Filho J	12967	Ossiannilsson F	12843	Papaioannou P	14500	Peattie D C	7679
Norris L C	11780-1	O'Kane W C	12307	Osteen O L	11833	14897		Peckenpaugh P	9268
Norris L M	16117	Olden E	8906	Ostendorf F W	9655-6	Paparella R	11336	Pecker H	9658
Norris P K	14229	Oldenburg C F	14965	Østergaard P S	14116	Pape C H	13462	Pedersen A	8992
Norris W C	10141	Oldham C H	8817	Osterlind S	8308	14066		14067	
Norske Skogselskap		8989-90		Ostertag R von	14795	Paradeau C	12485	Pedersen M	9269
10395		Oliva A	9931	Osterwalder A	13810	12532		Pederson C E	12844
N C Crop Impr		Olivares C J	12098	Ostrom C E	10743	Pardi L	12894	Pederson C S	13599
Assoc 15019		Oliver J P	14730	Osuna P	9478	Pardo Alcaide A	12654	13685 14414	
North Central Live-		Oliveira J G de	15671	Osuuskasojen Keskus		Paredis F	11363	Pedrosa Puertas R	
stock Mktg Res		Olivier L	8908	Oy	15178	Pareja Eguez O	8694	15062	
Com 14809		Olivier P	13169	Oswald K	9479	Parencia C R	12616	Peele F E	11706
Northern Ireland		Ollendorff A	10530	Otero Aenlle E	14895	Paris G	9480	Peele T C	10059
Pigs Mktg Bd	14773	Olliver G	9477	Ott G L	11546	Parker E R	8839	Peerlkamp P K	9711
Northern Rhodesia		Olmstead R	11163	Ottaviano G	11476	Parker F E	15959	Peevy F A	10534
Vet Dept	11021	Olofsson B	14182	Ottesen J	11870	Parker F W	9825	Pehrson S O	8310
Norton C	9258	O'Loughlin G T	12968	Ottley J F S	15517	Parker G	9264	Pelisek J	9803
Norton L J	15388	Olson A	9260	Oudemans C	7810	Parker M E	13683	Pelkwiik A J ter	8820
Norval R	8512	Olson C	8417	Ouldhouse G G	12033	Parker M W	8178	Pellagatta G	15560
Norway Statens		Olsen C E	16216	Ovchinnikov A	13929	9441		Pelletier R	11361
Stambokkontor for		Olsen H C	8818	Overbeek A A	11334	Parker R L	12936	Pellett F C	9659
Hest 11571-2		Olsen L C	10251	Overcash J P	8824	12970 14663		Pellissier A	11337
Norway Statist Sentral-		Olsen L P	10436	8991		Parker R W	12486	Pemberton C E	12972
byrå 13723		Olsen O B	9768	Overly F L	8309	Parker W B	12367	Pemberton R	12134
Noskiewicz J	12740	Olshammar C A	15060	Overman O R	11219	Parker W L	12971	Pemberton R L	12244
12891-2		Olson E A	14609	Overseth O E	9932	Parkin I E	11411	14774	
Nothhelfer M	10651	Olson L C	8514	10223-4		Parks J O	11444	Penabad Fraga M	
Nour el Dine Mou-		Olson P J	9606	Owen D F	12969	Parks R R	8917	12368	
stafa M	13596	Olson R E	13880	Owen F E	13024	13233 13250		Peñaranda Arenas F	
Noury C	10055	Olsson B	11164	Owen W F	15392	14413		15674	
Nover I	11022	Olsson E	11331	15716		Farks T H	13067	Peñaranda Canal F	
Novikov G A	10362	Olsson K	12483	Owen N	14611	Parnas J	11024-5	9935	
Novoa Cava J	11023	Olsson N	12484	Owren B	13170	Parodi L R	8040	Peñasco Camacho T M	
Novokreshchenov D		Olst H R van	14433	Oxenham J R	15697	9586		9888	
13879		O'Mahoney J C	14230	Oxer V T	15191	Parodneck M	13930	Pence R J	12721
Novotny E	11095	O'Mara J G	8137	Oxford U Agr Econ		Parpani G	14001	Pender L D Jr	9153
Nowak W	14893	O'Neill C T	10142	Res Inst	15603	Parr C H	9934	Pendleton R L	7680
Nowicki H	11443	O'Neill W J	12365	Oxley T A	14612	Parrish C F	14966	Peng D H	14837
Nubourgh Y	8732	Onsdorff T	13657	Oyler J B	15833	Parsons F G	15021	Penha A M	12202
9259		Onsem J G van	8201	Oyler M D	15717	Parsons F L	15394	Peninsula Hort Soc	
Nuckols S R	10056	Ontario Dept of				Partain L	15156-7	8735	
Nugent G R H	14964	Agr	16179	Paarlberg D	14896	15192 15835		Penny N M	13565
Nuila López L	8639	Statist Br	13724	Paarlberg H	12243	Partanen J	12133	Pentland M	14501
11330		Oostrom C P van		Padberg K	15518	Partridge E G	14991	Pereira A de O	15994
Nunberg M	12652	11495		Paddock E F	8127	Paruszewski S	11165	Pereira J A	10202
Núñez Mesa D	14020	Opasi Cousiño V	14330	Padhi R P	15685	Parvin D W	15519	Pérez J M G	13099
Nuret H	14607-8	Ophof A J	8508	Padrós Archs J	15834	Pasma W	13213	Pérez Díaz D	10060
Nussbaumer T	13928	Oppenheimer H R	7611	Pagani	15672	Pasqualini G	10639	Pérez López J	15063
Nutt G B	13168	8306		Pagani A	14613	Pasqualino A	12092	Pérez Malla J	9936
Nutting A D	10462	Oprecht E	11822	Page E C	16238	Pat Y	9587	Perl E	11624
Nye N C	11573	Opsahl W	10531-2	Page H W	9261	Pate V S L	12895	Perran O	10230
Nygaard J	10463	Orchard E R	10252	Pahlman A	8819	Patel B M	11230	Peronnet A	9937
Nyhlén A	9584	Orchard H E	9585	Painter J H	9933	Patel M K	7972	Perrault C	7973
Nystrom G L	10767	Örjangård S	15734	9653		Pater Jz C	15395	Perregaux E A	13566
		16217-8		Paiva O M	11123	Paterson C R	12896	Perret J	9660
Obel A L	12097	Orlandini C	11332	11271 11335	11477	Paterson G R	13487	Perret J E	7811
Oberg O	9474	Orlando A	12343-4	Pajak J	11410	13725		Perrier M	9764
Oberle G D	8997	13016		Pal B P	9501	Paterson P	15396	Perrin E E	9588
O'Brien M J	7914	O'Rourke F L	8734	Palkin G A	12027	Paton G G	13811	Perruche L	16180
Obruchev V A	9802	Orr C	7931	Pallastrelli G	15673	Patterson J B E	11026	Perry E J	11412
O'Byrne W	10838	Orr G M	11575	Pallmann H	9698	Paul L C	15836	Perry F	8736
Ocaña B	9929	Orr J	15222	Palmer A M	16281	Paula R D de G	14898	14731	
Occhialini G	9988	Orr J L	10421	Palmer E L	9262	Pauley S S	8138	Perry T D	10702
O'Connor R T	14894	Orr R T	12366	13598		Pauli C	11623	10788-9	
O'Connor P	11574	Orsenigo G	14065	Palmer R C	16282	Pautrizel R	12752	Pershall E E	10703
Oderkirk G C	7809	Orshoven H van	12653	Paloheimo L	12163	Pautzsch A	9265	Personius C	16137
Odland M L	9475-6	Orsmond F P	13230	13518		Pavan M	12575	Persons F S	9153
Odland T E	9930	Ortavant R	11157	Pálsson H	15393	Pavari A	10533	Peru Ministerio de	
Odium G M	11162	12057		Palti J	7814	Paver H	11629	Agricultura	
O'Donnell T C	8733	Orten J M	13597	Pamper S	8340	Pavin D W	13626	Departamento de	
Oebker N	15955	Orth E	10603	Pan Amer Union		Pavlovski W L	13684	Estadística Agro-	
Oehlkers F	8136	Ortiz A A	8307	Div of Labor and		Pavord A V	12533	pecuaria	14231
O'Flaherty F	14829	Ortiz L B	15957	Social Inform	15958	Pawson H C	11231	14615	
Ogrinc J P	10839	Ortiz Garmendia J		Panasfuk M	9657	15520		Perucci E	8701
O'Hara W	15956	9654 10143	10057	Pandey H N	10058	Payne K T	8150	Peruchon de Brochard	
Ohio Agr Prod Adjust		Ortiz Mariotte C	12574	Pang S K	15061	Paynter G W	12534	J	14117
Com 15390		Ortiz Velez M	11333	Pannekoek G J	9263	Payronnet R	13813	Pescott E E	9270
Ohio Poultry Feed		Osborn B	8640	Pantaléon J	13595	Pazzaglia	14614	Pesman M W	9271
Conf 11775		Osborn T W B	14610	14784		Pearce J A	14967	Pessa F	11871
				Pantanelli E	8515	Pearce S A	9266-7	Petersen E O	8821
						Pearson C C	11285	9272-8 9481	
						Pearson H S	10814	Petersen Mrs W	14775
						Pearson R G	10652	Peterson L	12973







Item	Item	Item	Item	Item	Item
Restofski H 13439	Roach R W 11340	Romanné-James 9589	Rural Bank of N S Wales 16182	Salter T M 7685	
Retzer J L 9808	Roark C L 10145	Mrs C 9308		Salton M R J 13690	
Retzl J 10873	Robb T R 12372	Romanov V M 10064	Rural Indus Bur 15851	Saltzstein R A 13568	
Reuterswärd G 9298		Romberg L D 9018	Rural Youth of the U S of Amer 15965	Samaras N T 10706	
Reuther W 8421	Robbins P W 10331	Romijn C 11175	Conf 15965	Samat M 11966-7	
Revell I L 12415	Robbins W R 8279	11877	Rusiecki E 11630	15996	
Reviäkin I U I U 13173	Roberson F K 9304	Roncati G 11342	Russel B 15679	Sampath S 8145	
Reyes F F 11173	Roberts A 14856	11479-80	Russell B 12246	Samsoen M 14005	
Reymond A 12252	Roberts A W 9305	Ronchi V 14625	Russell B 13491	Samson A O 14237	
Reynolds H A 10396	Roberts E A H 9677	Ronk S E 14975	Russell Sir E J 15403	Samudio J E 13884	
Rheingantz O L O 11964	Roberts E B 12135	Rönnberg B 9309	Russell E W 9991	Samuelsson B 9316	
Rhoades H E 11874	Roberts H L 13688	Rooda B H E 13838	Russell H E 14508	Samvirkende Danske Andelsselskaber 15966	
Rhys I W 13215	Roberts J L 9101	Roodenburg J W M 8744	Russell J S 14434	Sanborn B G 15022	
Ribeiro I F 11621	Roberts M 12491	Roos P 11547	14737 15680	Sanborn R C 13004	
Ribeiro J A 13382	Roberts R H 8326-7	Roozen L 9310	Russell M 10705	Sánchez Cozar S 7686	
Ribeiro O F 11621	Roberts W 13217	Rosa J S 15144	Russell P F 12793	Sandegren E 14627	
Ribeiro P de A 11335	Roberts W R 14973	Rosand J 8915	Russell R S 14626	Sanders D A 11097	
14062 14891	Robertson A 11341	Roseau H 9712-3	Russwurm A D A 12983	Sanders M E 8091	
Ribéreau F 13818	Robertson E I 11777	9739 9775	Ruszczyk Z 11232	8332	
Rice A Jr 13379	Robertson G S 13490	Roseberg A R 11481	Rut W 9734	Sanderson C J 11233-4	
Rice E L 8066	Robertson P M Jr 13231	Rosella E 7941 12662	Rutherford D M 12848	11579-80 12094-5	
Rice S A 11713	Robertson R N 8184	Rosenberg H 9311	Ryan F J 8090	Sanderson M 16262	
Rice S F 12010	Robertus 14974	Rosenheim H H 13380	Ryan J M 13102	Sandifer T N 13629	
Rice W S 14332	Robin A H 12093	Rosenthal Z 9491	Rydä K 11651	Sandkühler W 8648	
Richard A 14666	Robin F 8914	Rosenwald A S 11878	Rydh H 11176	9946 14738 15404	
Richards A A 8743	Robinson H F 8143	Rosillo M A 12663	Rydhberg C 11389	Sandler G 8649	
Richards E C 9299	Robinson J L 14778	Ross B 9312	Rydhlick F 13821	Sandoz L M 16131	
10422	15847	Ross D G 11502		Sands W M 10631	
Richards F J 8089	Robinson Mrs L J 9306	Ross G 13883		10707-8	
Richards J 9300	Robinson R A 14622	Ross J G 7942 8116	Ryker T C 9590-1	Sandstedt H 12206	
12926	Robinson R D 14391	Ross O B 12147 11343		Sansome F W 13408	
Richards O W 12660	Robinson T M 15224	Rossem G van 12664		Sant L E Van't 12750	
Richards V M 9301	Robinson T R 8007	Rossi C 14235		Santamaria Playá R 8092	
Richardson C S 13406	Robinson W B 13689	Rossman E C 8328		Santos A C V T dos 14902	
Richardson H R 9302	Robl 8526	Rostafinski J 11578		Santos E 10147	
Richardson J R T 10366	Robl J 10253	Roten E 14118		Santra D K 13522	
Richardson R 12539	Robyns W 7683	Roth 8827		Sanz B 11346	
Richaud M 14333	Rocha U F 11174	Rothchild I 11879-80		Sanz F 15852	
Richharia R H 8141	Roché P 7614	Rottersten K 15261		Sanz J A 8746	
Richmond W L 14815	Rochet W 14623	Rottin B 10606 10704		Sanz de Cortazar C 8146	
Richter J 9826 14133	Rodale J I 10254	Roubaud E 12745-6			
Richter P O 12661	Roderick D B 14496	Rougeot P 12982			
Richtofen-Boguslawitz P Freiherr von 8675	Rodin L E 8048	Rounds M B 8839			
Ricourt y Regus R A 7682	Rodrigues A 8996	Rouse M 16090-1			
Riddle O C 7939	Rodrigues J C 16148	Rousseau J 7615			
Riebel F 10296	Rodriguez A 8005-6	Rousseau M 12493			
Riecken H W 15736	Rodriguez J P 8676	Russel G 15262			
Riedel W 14075	Rodriguez V J 15069	Rowat R M 11344			
Riederer J 15159	Rodriguez Avila A 8826	Rowartha R L 9313			
Riera F J 8525 9667	Rodriguez Casals C 12492	Rowland H B 10464-5			
Ries L W 15995	Roe J 9942	Rowland J W 9769			
Riesen W H 13913	Roeder K D 13028	Rowland S J 11258			
Riethus H 14900-1	Roekens F 9307	Rowlands W T 12022			
Rietsema I 8913	Roger J 15848	Rowntree L 9314			
Rietz R C 10629	Rogers A 14736	Roy P 8745			
10677	Rogers C 12900	Roy W F 14508			
Rife D C 11159	Rogers C E 16249	Royackers P F 15964			
Riggs F 15962	Rogers G B 14950	Royal Col of Vet Surgeons London 11035			
Rigney J A 14094	Rogers H T 10231	Rozanov A N 10065			
Riherd P T 12899	Rogers H W 11211	Rozov N N 9783			
Riley H K 7940	Rogers R H 13261	Rubtsov I A 12747			
Riley H P 8142	Rogers S C 13695	Rubtsov I A 12373			
Rimpau W 11478	Rogers T H 8527	12792			
Rinehart D E 8790	Rogge K 15070	Rudolf P O 10471			
Rinehart E F 10920	Rohde E S 9668	Rudolph W 13381			
Ringdahl O 12742	Rohm and Haas Co 7816	Ruelle A 15849			
Ringler 12114	Rohmeder E 8144	Ruffin G 8450			
Ringrose A T 11714	Roiseulet L 11876	Ruggles E W 15850			
Rings R W 12981	Rokosky E J 12744	Ruhnke G N 15525			
Ringwald F 13440	Rol R C 9688	Ruiz M M 9990			
Rinses J 11339	Roland G 8008-9	Ruiz Alarco F E 9669			
Rio Grande do Sul 15678	Roleff H 13819	Ruiz Castro A 12901			
Brasil (State) De- partamento Estadual de Estatística 8005-6	Rolet R 13820	Ruiz Martínez C 11345			
Riollano A 12083-4	Roll-Hansen 9490	Rumler R H 11965			
Rioux J 10630 10665	Rollins H A 8961	Runeberg L 10773			
13285	14334	Rungs C 12847			
Rist P 9303	Rollins M A 16130	Runquist E 10538			
Ritchie A 14537	Rollins S H 9173	Rupp E 9943 10146			
Ritman E L 13216	Romagnesi H 7716	Rupp H M R 7684			
Ritter P 12067	Romagnoli A 11034				
Riu Vulart J M 8995	Roman E 16220				
Riveros J E 14972	Romanini A 14624				
Rizzoli C 15698					



Item	Item	Item	Item	Item	Item
Scaccaglia R 10922	Schneider L 11039	Scott W M 14240	Shaulis N 8997	Sigfridsson L 13933	
11235 12247 14096	Schneider-Orelli O 12672	Scottish Seaweed Res Assoc 9672	Shaver J M 7693	Siggers P V 7944	
Scala A 12985	Schnell R 7592	Scotton M 11098	Shaw A C 10400	Sigler W F 8049	
Scammell A F 12059	9902	Scoupe C 10068	Shaw F R 16221	Sigurdsson B 11882	
Scanlon E H 9319	Schnetzler E E 11717	Scruggs C G 15970	Shaw J 10610	Sigurdsson O 13288	
Scarabelli F 15527	Schober K 8454-5	Scruggs F H 13728	Shaw W M 10186	Silber H 12216	
Scaramuzza L C 12986	Schoen P W 10745	Scull E 9323	Shawan J A 11237	Silberschmidt K 8015	
Scarapani G C 11348	Schoffelmayer V 8574-5 14239 14629	Scullen H A 12903	14120	8293	
Scardovi V 8333	Schoffmann L 13219	Searls E M 12376	Shay J R 7943	Silen G 14244	
Scarr M P 15045	Schofield R K 9714	Searls E N 14976	Shcheglova O A 8342	Silin P M 15072	
Scarseth G D 15194	Schollenberger C J 9741	Sears P B 9827	Shcherpetev A G 10509	Silva E 10175	
15405 15605	Scholnik E H 13428	Sears R D 9955	Shcherbov M 14077	Silva P 12993	
Scearce J L 15934	Scholz U 11581	Seaton H B 12794	Shea B E 10746	Silva S G 15535	
Schaal W 8529	Schönbach H 10543	Seaton H E 9324	Shea J P 16184	Silveira A H da 14363	
8702	Schonwandt M 8650	Sebastiani B 11041	Shear C B 8343	14631-2	
Shade A L 8281	Schoolcraft C D 14392	Sebasti M 7993	Shear G M 8344-5	Silveira G G da 8858	
Schaefer J W 9320	Schoonneveldt J C van 9671	Seeger K C 11782	9955	Silvela y de 14243	
Schaefer L 12666-9	Schoonover W R 8839	Seelemann M 11352	Sheard G E 14243	Tordesillas F 8346	
Schaeffler H 14628	Schopfer W H 8335	Seeley J G 9325	Shedd C K 13287	Silvester F D 10611	
Schaefer R L 11473	Schopflocher R 13175	9953	Sheehy E J 11415	Silvestri F 12677	
Schakel R 15967	Schöyden T H 12334	Sefton D J 11583	Sheets O 16066	Silvey J M 15199	
Schalkers K S 16044	12375 12673	Segerros H E 9326	Shefrin F 13631	Simentzis M 12494	
Schaller F W 9740	Schrader A L 7821	Segni A 15531	Sheinman V I 14393	Simes J G 12994	
Schaller H L 13218	9951	Segretain G 8011	Sheldon W B 11550-1	Simlote K M 8148	
Schanderl H 8829	Schrader O H Jr 10581	Segring S B 10709	14840	Simmonds F J 12382	
Schantz-Hansen T 10580	Schramm V 15530	Segurini M 11042	Shelor E 13708	12904	
Schaper A 11177	15563	Seigworth K J 10299	Shemin S 11484	Simmonds N W 8347	
Schäper W 11037	Schrank A R 8336	Selbas C A 12676	Shen F S 10071	Simmons F C 10582	
Schaphorst W F 14903	Schreiber J 11040	Selby B J 16093	Shen T C 10148	Simms E T 11061	
Scharrer B 13029	Schreiber R 11236	Selby H W 13973	Shepherd W O 11207	Simon M 8026 8695	
Scharrer K 10923	Schreuder P J van der H 11582	15161 15971	Sheppard F M 14630	9956 10176-7	
Schechner H 10298	Schreur E 12208	Sell 10874	Sherman C B 13691	Simoncelli F L 12680	
Schedl H 14739	Schröder W 10816	Sell H M 14758	Sherman F III 12844	Simoncini E 14833	
Schedl K E 12987	Schroeder C R 11535	Sell O E 8476 9593	Sherman H C 13494	Simonen M 10633	
Scheer C D 15528	Schroeder E W 10066	Semeniuk W 7942	Sherman M 12378	Simonini A 15700	
Scheerer G 8830	Schubert G 10925	Semenova-Tian-Shanskaia A M 8094	Sherwood R M 11754	Simonis W 8348	
Scheiding C 11715	Schuch O 8530	Sen K C 13974	11823	Simonneau P 10072	
Schenck C A 10607	Schuffelen A C 9723	Sen K R 14241	Sherwood S F 9594	Simonpietri R H 11043	
Schenck H E 15968	Schuh J 12990	Sen S 9934	Shetty K S 13495	12579	
Schenk P J 8010 9321	Schuler K 10398	Serandour P 14022	Shewan J M 15121	Simons A J 8751	
13069	Schultz A S 8340	15853	Shewell-Cooper W E 7820 8750 8832	9500 9828 9957-8	
Scheunert 10924	Schultz E N 11180	Serevo T S 10608	8919-22 9327-8	Simonsen C U 13289	
Schey L T C 13838	Schultz J H 8337	Serfontein P J 11783	9495-7 12379	Simpson D M 8576	
Scheygrond W 9494	14499	Sergeev I A A 12164	13409 13570	Simpson G W 15972	
Schickele R 15529	Schultze A B 11350	Sergeev P 15483	Shiller I 13055	Simpson H T 15536	
Schlieltz N C 13511	Schulz A H 13382	Serlis H G 13823	Shingler G P 10747	Simpson H V 10612	
Schiethart L J 15406	Schulz G 15408	Serna Silva F 15071	Shipman I M 11552	Simpson M E 14193	
15681	Schulz M E 13885	Serpette M 8078	Shire Horse Soc 11584	Simpson S A 11258	
Schiffinger R 13174	Schulze W 11483	Serpieri A 15145	Shirreff Mrs W H 12013	Sims A J 11416	
Schimitschek E 12670	13071	15532 15683 15719	Shkvar I A I A 9673	Sims H M 14394	
Schlittler J 7687	Schuster K 10652	15854	Shoobridge H W 9760	Sims J W 13632-3	
Schlögl A 15160	Schut W F B 15409	Serr E F 8917 13233	Shor M 12115	Sinclair H M 16294	
15407 15969	Schüttuf H 8749	Serrano P 10399	Shorb D A 12209	Sindrey R J 12211	
Schluga N 11414	Schuermans D 10926	Sers J 19069	Shortridge N 16185	Sineschekov A I 11044	
Schmid V 12671	Schwab A W 14859	13300 13383* 13412-3 13446	Show S B 10300	Singer R 11718	
Schmidhammer G 11178	Schwab G R 11549	Servicio Cooperativo Inter-Americano de Producción de Alimentos 14242	Showalter A M 8147	11969	
Schmidt A 14510	Schwanbom N 8651	Servigne M 15855	Shpet G 12380	Singer S J 11970	
Schmidt E 13070	Schwartz J R 10632	Sether J W 13103	Shrader H L 14121	Singh D 15073	
Schmidt F 11548	Schwartz M 12674	Sevastopulo D G 12991	Shrader J H 13601	Singh D N 15411	
Schmidt F A 12540	Schwartz T A 13607	Severin H H P 8012-14	Shrager J 9329	Singh G 13934	
Schmidt G 12751	Schwartz C D 9250	Severson H 12136	Shrikhande J G 9761	Singh H B 9501	
Schmidt H W 7818	9952	13886 15181 15533	Shrubshall A H 9330	Singh K 8859	
11038 16183	Schwarz A 14511	Sewell T G 9954	Shuffler R H 15856	Singh R N 12834	
Schmidt M 8918	Schwarz L J 13822	Sexauer H T 14740	Shultis A 15534	Singh S 8859-60	
12988	Schwarzenbach W 8831	15100	Shumacher A 8093	Singh U B 7822 9595	
Schmidt P 8748	Schweigert B S 11779	Seybold A 8341	Shumakov A M 13824	Sinha L P 15264	
Schmidhuber K 11716	Schweinfurth C 7688	Shahan M S 11061	Shurly E 9331	Sinz K 9674	
12011-2	Schwerdtfeger F 7819	Shahin I A H 14225	Shutak V 7821 14450	Sircar J K 14245	
Schmitt F O 14757	12675	Shane P 13452	14512	Sirri A 8531 11971	
Schmitt L 9950	Schwertz F A 11899	Shannon R E 13975	Shuttleworth A C 11631	Sirvent 14585	
Schmitz-Lenders B 10542	14904	Shapiro S K 12290-1	12381	Sisto A 10204	
Schmoker E A 11179	15682	Sharov I A 10070	Siaens F 8923	Sitton B G 9959	
Schmucker T 8334	15682	Sharp S J 10609	Sidorov A 13887	Sivadjian J 8349	
Schnabel C 9322	8338	Sharp S S 12377	Sidoti A 12210	Sivaswamy K G 15265	
Schneider J 12902	8339	Sharvelle E G 7943	Sidwell R W 9499	15857	
12989	11968		Sieber 10817	Sjöberg K 11045	
Schneider B 11058	10067		Sieber W 9332	Sjöholm E 13888	
Schneider C L 12929	11780-1		Siegler E H 12992	Sjöstedt S 10566	
Schneider E 11349	11351		13825	Sjöström L B 13524	
Schneider H 12541	15705		12752	Skaife S H 9960	
				Skard O 8833	



	Item		Item		Item		Item		Item
Skaupy F	8350	Smith T J	7762	Souza A H de	14906	Stautemas E	9336	Stouffer S	13531
Skepper A	8861	Smith T L	15539	Souza A O de	8534-6	Stearson O	15146	Stout A B	9340
Skibbe B	15537	Smith V T	9742	Soyer B	12905	Stearns L A	12971	Stout W B	13573
Skinne-moen K	16222	Smith W H	14513	Sozanski S	9715	Steck	11445	Stoutemyer V T	9341-2
Skinner A F	15701	Smith W P C	7945	Sparr J	11417	Stedman E B	8756	Stoves J L	14251
Skinner C E	7732	Smith W S	11353	Sparkman H C	14779	Steel L M	13696	Stowe E J	15858
Skodvin K	9876	Smith W T	10678	Spaven J	11974	Steele J H	13602	Stowell M D	10466
Skoglund W C	11784	Smith-White S	14885	Speakman J B	14248	Steen F van	9337	Stoy O	12390
11972		Smiththett P B	9334	Spear G	13234	Steen J van	10544	Strachan G	13574
Sköldenberg P G	13422	Smithmeyer J E	11239	Speinle	14090	Steenbergh D K	14122	Strait E D	10424
Skrindo T	15266	14415		Spena A	11355	Steenis C G G J van	7640	Strand E G	14907
Skuin K P	8998	Smits C	15608	Spence J	13290	Steensberg V		Strang J W	12166
Slaats M	9502	Smolik R S	13072	Spencer H J	16188	10929-30		Strange H G L	7619
Slade R E	11238	Smrha R V	10074	Spencer L	13948	Stefanelli G	13340	Stratford M O	14395
Slate G L	8999	Smurr E	14633	Spencer N	11512	Stefano F di	12680	Straumal B P	8569
Slater E	13104	Snapp O I	12679	Spencer-Smith J L		Steffek E F	9338	Street A G	8677
Slater J V	7568	12852				Steger G	11653	Strele G	10849
Slater L W	13692	Snell R S	8484	Spettoli O	14249	Steinemann H	11513	Stringham E W	11182
Sletten O	7732	Snell W H	7867	Speyer W	12853	Steiner L F	12389	12138	
Slits H A	15528	Snipes B T	12754	Spicer O W	10841	Steiner M	8424	Strohmaier L H	14416
Sloan G A	14246	Snobl A	12212	Spielberger A	13354	Steinitz L M	8151	Stroman G N	7620
Slogteren van	16223	Snow A G Jr	10748	Spindler L A	12213	Stekler B L	12756	14252	
Slootweg A F G	7700	Snow M	8095	Spinney G G	11975-7	Stella J J	11049	Struckmeyer B E	8327
Slosberg H	14986	Snow R	8095	Spisni D	11047	Stenersen T	10545	Strung Z	15226-30
Small J	11973	Snow R V	10075	Spitzbarth H	13235	Stenlid G	8358		
Smedt A de	8752	Snyder E	9000	13384		Stephanides C S	13178	Strzemienski K	9744
12678 14429		Snyder H	13427	Spolstra P A	13463	Stephens D F	11343	Stuart N W	8222
		Snyder J C	8924	Sporne K R	7618	Stephens J A	10077	8362 9343	
Smeenk H	14435	Snyder T E	10666	Sporny E	12137	Stephens S G	8097	Stubbe H	15859
Smillie	14078	Snyder W E	8353	Sprague D C	13221	8152 8425		Stucki J	11051
Smit B	9762	Sobek V	10875	Sprague J M	11454	Stephenson E L	11885	Studt W B	14396
12995		Sobels J C	8354	Springorum B	8244	Stephenson R E	9963	Stuff G	15025
Smit H	13176	Sobolev N K	14335	Sproule W H	14048	Stepp J M	15147	Stuivenberg J H M	
Smith A A	15538	Sobolev S S	10149	Spur B	14079	Sterling E A	10818	van	8363 14514
Smith A H	13597	Sobrero L R	8532	Spurling C J	8755	Stern J K	15976	Stummeyer	9596
Smith A J	8027	Sociedad Agrícola		Spurling M B	10031	Stetter H	14346	Stumpf P K	8364
Smith A L	10178	del Norte	15974-5	Spurr S H	10440	Stevens H H	13603	Stura C A	11633
14176		Sociedad Rural	15607	Squadroni G	9001	Stevens O A	12906	Sturkie D G	8652
Smith B	14351	Argentina		Squire F A	12854	Stevens W C	10679	Sturzo L	15148
Smith B R	12495	Society for Expt		Squires G A	11786	Stevenson F J	9505	Stüssi D	14009 15417
Smith B W	8149	Biol	16187	Sroka K H	9504	Stevenson J A F	16095	Stuyck M	9506
Smith C B	15973	Soderberg P M	11485	11884 12496		Stevenson J W	10931	Styer J F	7621
Smith C L	9018	Söderhjelm J O	10711	Stableforth A W	11356	Stevenson R A H	13826	Subrahmanyam V	14054
Smith C W	14023	Sognefest P	13693	Stacey C G	11978	Stevenson W A	12855	Suchanek J	12215
Smith D C	15200	Sokolov A A	8533	Staebler G R	10441	Steward F C	8190	Sukhov K S	8016
Smith D T	16186	Sokolov M M	15413	Staffe A	11979	Stewart A	15162	Sult H M	10078
Smith E	12014-5	Sokolov V S	8355	Stage H H	12795	Stewart C E	15707	Sumner H	11634
Smith E E	14519	Sokolowskyj W	11181	Stahel M	8926	Stewart C M	15542	Sun C C	15543
Smith E G	10073	Soldi F	15201	Stahl B F	14635	Stewart G F	14986	Sundelin G	9525 9965
Smith E R	14024	Solère	8834	Stahlberg H	15414	Stewart H A	12165	Suneson C A	7939
Smith F F	8283	Solis J A	11632	Staight O N	12016	Stewart J E	10613	Suolahti O	10635
8351 12383-5		Soltys E	12996	Stakman E C	8356	Stewart J P	13572	Supreme Com-	
Smith H E	13410	Somoza A L	9962	Staley H K	16239	Stewart M H	11050	mander for the	
Smith H L	14635	Sonesson N	15540	Stalker H D	12755	Stewart R N	8194	Allied Powers	13497
Smith H P	13177	Sorensen E L	15023	Stall C W	15024	Stewart W S	7902	Sect	10546
Smith H R	12753	Sørensen H	8050	Stallworth H	8386	8359-60 13306		Sure B	16134
14349		Sørensen T	8051	Stamper E R	7946	Stice W N	14123	Sureau B	8365
Smith H S	8839	Soria G E	11354	Standfuss R	11048	Stiebeling H K	18096	Sushkov P F	13307
12849		Soraa J M de	14905	Stanford G	9743	Stillman G	13697	Sutton J G	10079
Smith H W	12307	Sorrels J H	9630	Stanley G W Jr		Stine O C	13530	Sutton T S	11246
Smith I	10927	Sortor C H	10076	10789-90		15415 15423		Sutton W S	7948
Smith J A B	16132	Sosa A	8418	Stanton T R	7947	Stockburger S	15416	Svärdström K F	15418
Smith J B	15606	Sosa L A	15074	8537		Stocker O	8361	Svedberg H	14006
Smith J D	12850	Sötmoeller P	11846	Staples R R	9771	Stockman L	10634	Svensden M P	11183
Smith K	11046	Sotola J	10928	Stapleton H N	16263	Stockman S K	16047	Svenkerud R R	11052
Smith K R	13571	Soueges R	8096	Stark E	8538	Stockner M	11514	Svenska Mejeriernas	
Smith L	8150 8352	Sourisseau J H	15541	Stark F C Jr	8357	Stodart J A	15267	Riksförening	13889
9333		Souster J	9335	Stark W H	14636-7	Stoddard D L	7866	Svenska Smor-	
Smith L A	14636	South Africa Controllor		Starke J S	14780	Stoeckeler J H	10423	provningarna	13937
Smith N F	7617	and Auditor-Gen	13496	Starker C H	12388	Stoeckert K	14250	Svensson K B	13938
10368		14634		Starnes E B	12693	Stokes J	9339	Svensson S E	11358
Smith O	8220	South Africa Dept		Starnes O	12693	Stoll G	13936	Svensson V	9507
9458 9503		of Agr	8753	Statuti M	9002-3	Storck R	16115	Sveriges Palsdjurup-	
Smith O F	7762	South African Wool		Staudt E		Storer T I	8839	pfödars Riks-	
Smith R C	9961	Bd	14247	Staufer J M	10333	Störmer K	7824	förbund	11553
12386-7		Southern J H	15706	Staufer V D	11980	Stormont C	11357	Sveriges Utsädes-	
Smith R F	12851	Southwell B L	10931	Stauning A	16045-6	Stouder K W	12214	förening	15026
Smith R J	14417	11785						Sverre H	11554
Smith R M	8234	Southwell V G	8754					Sviridov S	14080
11883		Southwell F W	8925						
Smith R P	12069								
Smith R R	10710								
Smith R W	9770 10946								



	Item		Item		Item		Item
Swahn O	12097	Taylor F J	15564	Thompson R W	13073	Torres C B	14910
Swaminathan R	16097	Taylor G G	12997	Thomsen F	9509	Torres L de Haro C	11983
Swan L C	11053	Taylor G M	9346	Thomsen F L	14398	Torriglia C	16051
Swanson D W J	10080	Taylor H V	8930	Thomson G A	12116	Torstensson G	8370
Swarbreck G	14638	Taylor J H	8153	Thomson J	15860	Tortorelli N	14743
Swartenbroeck J M L		Taylor N H	10850	Thomson R	10567	Toth S J	9731
12391		Taylor N N	10401	Thonet H M	10820	Toumanoff C	13059
Swarttouw C N F	14253	Taylor P R	14397	Thoni K	14255	Townsend J C Jr	13498
Swartwout H G	7825-6	14517		Thornber C	11968	15419	
Swartzwelder J C		Taylor T R	15231	Thornbury R A	13532	Toxopeus H J	8155
11486		Taylor W I	13939	Thornbury R S	11360	Toxopeus P C D	15420
Swaziland Dept of Native		Teale E W	12907	Thorne F T	12856	Trabauer F	8655
Land Settlement	15619	Teas H J	8154	Thorns F W	7641	Tracy P H	14084
Sweden Doman-		Tecourt R	8835	Thornton H	13604	Tracy T N	14980
styrelsen	15544	Tedeschi G G	7622-3	Thoroughbred Breed-		Traill O	14257
Sweden Lant-		Teele Mrs A P	9347	ers' Assoc of So		Traine A G	14812
bruksstyrelsen	16189	Teesdale L V	13385	Africa	11586	Traub V E	11058
Sweet R D	9547	Tefft H D	14834	Thruelsen R	10583	Trautmann A	12216
Swenning K A	10842	Tegtmeier A	9348	Thung T H	7827	Traverso D	12167
Swenson S P	8494	Tehan Y T	9757	Thüngen D Freiherr		Traves C W	11789
Swiechowska W	12945	Teixeira A J da S	16286	von	9992	11984-5	
Swierstra D	11886	Teixeira J de L	15075	Thurman D C Jr	12857	Trawinski A	11059
Swift & Co	14741	Telford C J	10622	Thurstun H W	7828	Treat Mrs E M Jr	9352
Agr Res Dept	14781	Teller H	11488	Thygesen T B	9005	13976	
14977		Teller W M	9967	Thym A M	14417	Trelogan H C	13976
Swim H C	9344	Temkin-Gorodisky N		Tidmarsh C E	10151	Tremblay F T	8371
Swingle C F	8927-8	7967		Tiedjens V A	10081	Trenkle R	8836
Swingle W T	8862	Temperton H	11787	Tiemann H D	10654	Trent D	11790
Switzerland Direction		15609		Tiemann O R	9353	Trépanier M	11361
Générale des Douanes		Temple T H	14835	Tierstein V	11654	Tresadern F H	8415
Federales	16048	Templeton G A	14711	Tildesley W	7625	Tressler D K	13655
Sydow O	14639	Templeton G S	12021	Tilemans E	7949	13700	
Sykes G	11981	12034		Tillson A H	14345	Tretsven W I	14007
Sykes S M	14515	Teng S C	10402	Timm T R	15232	Treman D G	11468
Symes C B	12796	Tennenbaum Y	8654	Timonin M I	9753	Triebold H O	14849
Symons T B	14124	Terasmäe E	9933	Timson S D	11400	Trigg R S	14641
Syrjala S	15977	Terlikowski F	7624	Tincker M A H	14256	Trim C L	9354
Szabuniewicz M	11054	7975		Tindale G B	14473	Trinkaus J P	11891
Szafiarski J	11359	Terpstra J I	11056	Tindall C	10205	Trinquier E	11337
Szczudłowska M		Tessman A	13441	14908 14979	15861	Trocme S	10179
11487		Testa E	13827	Ting I	13940	10208	
Szöllösy Z	14742	16050		Tingdal C J	15242	Trolle R	14010
Tabat E	10819	Testout H	12998	Tinguy L de	15183	Trommer M	11421
Taggart R S	12392	Teter N C	13087	Tipton B	13182	Tromp P H M	10821
Tagle E C	11184	Teutsch W L	14336	Tirelli M	8369	Trönnberg E	15233
Tagle V I	12098	13030 13699		13030 13699		Troquereau P	11337
Tagliacarne G	16049	Tirén O	12071	Tirrell G E	13309	Trossbach G	10255
Tagliaferri L A	9508	Tirrell G E	13309	Tirumalai S	15720	Trotzig L	15863
Talati R P	9829	Tissot A N	12681	Titum H W	11788	Trouvelot B	7626
Talbert T J	9345	Titus H W	11788	Tjeder B	12757	Trow-Smith R	10934
Tallarico G	8539	Tjeder B	12757	Tocklai Expt Sta	9677	15421	
9772 10932-3		Thebis R	13179-81	Todaro F	10152	Truesdell H W	15864
11055 13890		Theodor O	12785	14640		Trullinger R W	16287
Tallman G B	13524	Théodoridès J	12252	Todd A C	11635	Trumper J	13892
Talwar R C	12497	Theron C J	9004	11888-9		Truzzi N	15687
Tamagnini G	15182	Thibault C	11157	Todd A R	12814	Trygg J W	10467
Tamesis F	10614	12057		Todhunter E N	13533	Tseng T H	10615
Tamm C O	9675	Thiel F	13828	Todoroff A	13941	Tsu C T	8704
Tamm O	9866	Thieulloy E	12070	Toepke L	13291	Tsvetoukhine V	8179
Tankerville Earl of		Thimann K V	8280	Tolba M K	8331	Tucker H H	10206
11418		Thind A S	9609	Tolley H R	15721	Tuff P	14782
Tanner A	11887	Phodav J M	8098	Tolman B	13259	Tukey H B	7950
Tanner F W	13608	Thomas A H	8368	Tolonen K	11420	8758	
14355		Thomas D G	9349	Tolonen B	11420	Tulupnikov A I	15268
Tännler H	12498	Thomas E Jr	11185	Toma G T	10547	Tunblad B	12393-4
Tanton B	10535	Thomas F W	14125-6	Tomé G A	14127	Tuning W	16052
Tarassenko M T	8366	Thomas G	13341	Tomhave A E	11972	Tunmann-Moe P	10548
Tarassuk N P	14049	Thomas I	8540	11982		10548	
Tardiff R O	13891	Thomas J	11585	Tomka G	14082	Turbin B G	13185
Tarr H L A	15122	Thomas J E	15979	Tomlinson C	13183-4	Turk F A	12580-1
Tarragó E	8929	Thomas J I	12781	Tomlinson W E Jr	12999	Turk K L	11240-4
Tarry W B Jr	12060	Thomas M	15980	Tommila O	10623	Turkey Office Central	
Tarzwel C M	12797	Thomas R O	8367	Tompkins C M	8012	de Statistique	13729
Taschenberg E F	13308	Thomas W	7975-6	Toney L	15862	Turnbull G C	16983
Tashkent Tsentral'naiä		Thompson A H	8172-3	Tonin M	13000	Turnbull J C	10082
SelektSiionnainä		Thompson A M	11419	Toole E H	8287	Turnbull O	13294
Stanfäia	8579	Thompson G	10791	Toole V K	8287	Turner A J	14258
Tassinari R	10876	13576		Toop C R	11890	Turner A W	13105
Tattersfield F	9676	Thompson H C	8191	Topi M	9599	Turner C W	11892
Taufel K	13698	Thompson H O	12017	Torgeson O W	10680	Turner P	15269
Taylor B M	14758	12029		Tornius V	8757	Turnill L	11791
Taylor C C	9598	Thompson H W	12404	Torquati A de	14909	11986	
15737		Thompson J B	13603	Torrent Mollevä M	11057	Twomey T P J	13893
Taylor D	8653	Thompson L N	14978			Tyler L D	14911
Taylor D J	12857	Thompson M M	9351			Tyrer T G	11422
Taylor D K	7942					Tysdal H M	7762
Taylor E H	10150					8656	



Item	Item	Item	Item	Item	Item
Van De Kamer J H 13520	Vidal Mora J M 14339	Wahlfisk K O 13500	Watson A J 14985	Westenberg W H 14268	
Van der A 12583	Vidme T 8601	Wahlin B 7831 13310	Watson D P 8379	Westerbeck L E 11988	
Vandenbrande F 9511	Vieira J A 15984	Wain R L 12401-2	Watson E B 13073	Westergaard M 8158	
Vandendael P 8760	Viel G 12423	Waite H 10087	Watson I 16225	Westermarck H 11067	
Vandeplassche M 11363	Viennot-Bourgin G 7953	Walbaum P 9516	Watson J A S 15874	11536	
Vanderford H B 9810	Vigerust A 10442	Waldie W J 14836	Watson S J 10939	Western Australia Chem Lab 13523	
Van der Linde W J 8027	Vigfusson H 11824	Waldmann O 11064	Watson W H 14197	Westhues M 11068	
Van der Merwe J A 11792 13386	Viggiani G 8456	Waldo G F 8952	Watt L C 10426	11639	
Vanderplank F L 12759	Vik K 8542	Waldo W G 14263	Watts B M 14837	Weston R F 10844	
Vandervort V 11793	Vik L B 8934	Waldron D R 13521	Watts J G 12684	Wettinger 7958	
Vanderwaeren R 12400 15029	Vila A 10722	Walford S M 11895-6	Watts L F 10341	Wettstein F 12117	
Van Drimmelen G C 11364	Villamil G F 8022	Walker C 15548	Watt L C 10426	Wetzel A 9971	11069
Van Hoesen S 9356	Villamizar A F 7627	Walker C R 15104	Watts B M 14837	Weybrew J A 12165	9920
Van Konynenburg J 9357	Villanueva J 11636	Walker D B 14912	Watts J G 12684	Wezer A van 9972	9519
Vannucci G 14647 15030	Villar H del 9699	Walker J C 7954	Watts L F 10341	Whaley A E 11368	
Van Overbeek J 8181	Villee C A 12760	Walker K C 14521	Watts L F 10341	Wharton C 11247	
Van Rooven C F 15101	Villeneuve G O 9358	Walker L W 7628	Watts L F 10341	Wharton G W 12584-6	
Van Vlack C H 13356	Vilmorin R de 8658	Walker R D Jr 10713	Watts L F 10341	Whatley J A 12170	
Vardehaug A 10938	Vincent G 11245	Wall J T 9360	Watts L F 10341	Whatley T J 15611	
Varga A 14259	Vincent S 9359	Wallace C R 12683	Watts L F 10341	Wheaton E 13693	
Vargas Peralta F 10084	Vincenzoni W 13831	Wallace G J 16195	Watts L F 10341	Wheeler H E 7721	
Varma P M 7979-80	Vine R 13238-9	Wallace M E 11598	Watts L F 10341	Wheeler R S 11794-5	
Varney H H 13894	Vinitiskii G P 13832	Wallace T 8377	Watts L F 10341	Whetten N L 15736	
Varossieau W W 10636	Viotto F 12908	Wallace T 8377 9970	Watts L F 10341	Whiffen D H 12404	
Varzea A 15077	Virgin H I 8374	Wallace T 8377 9970	Watts L F 10341	Whiffen H J 12503	
Vasconcellos P W C de 10163	Va Polytech Inst Dept of Vocat Ed 15873	Wallenstein R 15430	Watts L F 10341	Whitcomb W D 13004	
Vasil'ev P 10301	Virshovsky A 13106	Wallis E F 9745	Watts L F 10341	White B S Jr 13581	
Vasquez L N 8703	Visser R H 8375	Wallis E 12501	Watts L F 10341	White E D 13188	
Vaughan R H 14519	Viswanathan D K 12798	Wallis T E 13522	Watts L F 10341	White H F 9973	
Vauvel J 13895	Vitkevich V I 16264	Wallraabenstein P P 15273	Watts L F 10341	White H L 9372	
Vavich M G 16111	Vityn'sh IA IA 9811	Walsh O E 10088	Watts L F 10341	White J H 14819	
Vayssiere P 12682	Vivancos Guerao I 14261	Walsh R S 12543	Watts L F 10341	Whitehead L A 9373	
Vázquez E A 15078-9	Vloten H van 8376	Walster H L 13107	Watts L F 10341	Whitehead S B 9974-5	
Vazquez Calcerrada P B 13578	Vogel F 15081	Walter C E 11723	Watts L F 10341	12587	
Veaco R G 9600	Vogelzang W L M 10119	Walter H H 11724	Watts L F 10341	Whitehouse F C 13074	
Vecchi G de 15080	Vogler E 9969	Walter J M 7866	Watts L F 10341	Whiteoak J S 12504	
Vedovato G 15428	Vogt E 13833	Walter J W 11725	Watts L F 10341	Whitfield A 15738	
Veenbaas A 16135	Vogt M 12761	Walter L 13702	Watts L F 10341	Whiting A R 12909	
Veenendaal H 11490	Vogt W 10164	Walter N 7629	Watts L F 10341	Whiting F 13924	
Veenstra M J 11365	Vogt-Möller P 16101	Walton A 11366	Watts L F 10341	Whitting P W 12910-11	
Vega R 11289	Volanti U 8543	Wampler R H 10683	Watts L F 10341	Whitlock R 11423	
Vegetable Growers Assoc of Amer 9512	Volcani Z 7967	Wang C Y 9679	Watts L F 10341	12061 12118	
Veiga J S 11123	Volchikov I 14085	Wang T C 15549	Watts L F 10341	Whitlow S 8545	14651
11271	Volkova A A 5913	Wang Y L 12726	Watts L F 10341	Whitman E S 14341	
Veihmeyer F J 8891	Volleidt N A 13342	Wanner J 10443	Watts L F 10341	Whitney 10844	
Vekhov N K 8761	Vollmert B 15052	Wannorp H 11426	Watts L F 10341	Whitney D J 8660	
Velazco A 11062	Volobuev V R 8052	Wanscher J H 8762	Watts L F 10341	Whittaker E C 7744	
Veldhuizen H 13780	Volz E C 9841	Wanson M 12762	Watts L F 10341	Whittem J H 11449	
Veloso V 15872	Volsattel M 12542	Wanstall G 15985	Watts L F 10341	Whitt J N 8661	
Ven L F J M van der 15102-3	Vondy T L 10187	Ward F K 9361-2	Watts L F 10341	Whittinghill M 12763	
Venkatarangayya M 15685	Vonih R S 13260	Ward G H 13703	Watts L F 10341	Whittle T E 11727-8	
Venkatarayan S V 8099	Vonk H J 11894	Ward G M 15105	Watts L F 10341	Whittleston W G 13222	
Venturelli R A 12500	Vonsbaek N P 14983	Ward G W 11897	Watts L F 10341	Whyte R O 15550	
Venturi V M 8373	Vopelius O 14025	Ward H H 10369	Watts L F 10341	Wiatr S 15743	
Verbelen V 8932-3	Vöry J 10404	Wark D C 9517	Watts L F 10341	Wicht C L 8054	
Vercelli G di 14648	Voskuij WH 13343	Warner O F 7838	Watts L F 10341	Wickard C R 13443	
Verglas R 13830	Vowles H P 13186	Warner R G 11246	Watts L F 10341	Wicker H E 11486	
Verhoeven W B L 8017	Vriend S 9514	Waroqueiz P 12018	Watts L F 10341	Widdifield R B 14913	
Verhulst M P 15546	Vries G de 11721-2	Warrack G 10550	Watts L F 10341	Wiedemann E 10405	
Verlinde J D 11063	Vuorinen J 9812	Warren C H 9602	Watts L F 10341	Wiedling S 7701	
Versteeg H 11720	Vyzhigina A P 9007	14650	Watts L F 10341	Wiegand E H 12704	
Vert H 14400	Waal G A van der 14520	Warren G F 9603	Watts L F 10341	Wiegner G 10089	
Verzele M 15111	Wachenfelt M von 15547	Washko J B 9923	Watts L F 10341	Wieme G 9374	
Vestal E F 7952	Wachholder K 16136	Wasscher J 9364	Watts L F 10341	Wienand E B 16055	
Veverka C 13579	Waddington C H 16194	Wassermann A 14264	Watts L F 10341	Wiggins E L 12170	
Vezzani V 12249	Wade B L 9515	Wasserthal E 12502	Watts L F 10341	Wigglesworth V B 12859	
Vianna A T 12268	Wageningen Centraal Instituut voor Land- bouwkundig Onder- zoek 16289	Watanabe Y 11668	Watts L F 10341	Wight W 9677	
Vicinelli P 15429	Wagner E 14262	Waterhouse E G 9365	Watts L F 10341	Wiklander L 9746	
Vick R 9732	Wagner W H Jr 13002	Waterman W G 9366	Watts L F 10341	Wilcox D E 14747	
Vickery H B 8419	Wagoner J F 14745	Watson A 14746	Watts L F 10341	Wilcox L V 10090	
Victoria Dept of Agr Vet Staff 11655	Wahl I 8356	Watkins J M 8659	Watts L F 10341	Wilcox W W 15612	
Vidal Esteras G 9968	Wahlenberg W G 10549	Watkins T D Jr 14266	Watts L F 10341	Wilczynski M 11070	
Vidal Fernández B 14260 15185		Watson A E 7690	Watts L F 10341	Wild H 9604	
			Watts L F 10341	Wild L J 15551	
			Watts L F 10341	Wilde E I 9375	



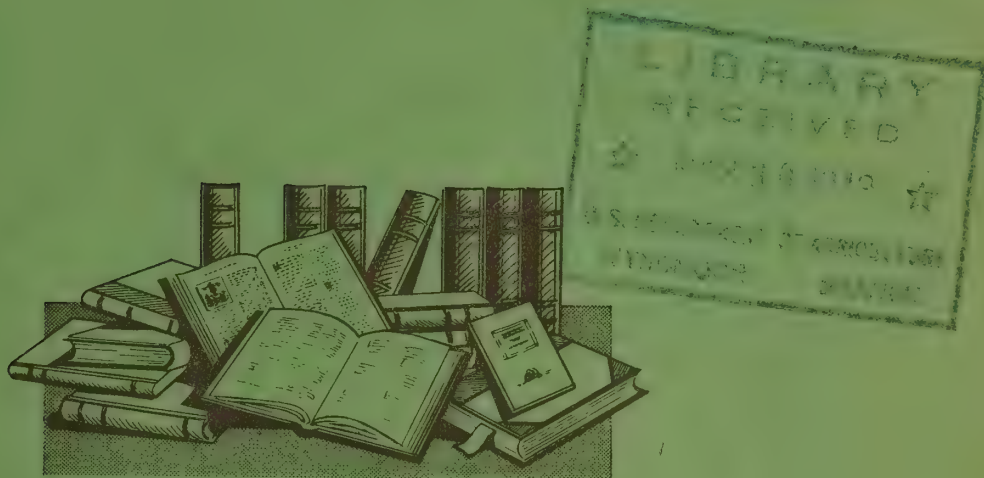
Item	Item	Item	Item	Item	Item
Wilde J de 12764	Wilson J F 12119	Wolf A M 11428	Wyatt F M 8389	Zappi-Recordati A 12545	
Wilde S A 10551	Wilson J O 10302	Wolf D E 9605	Wygant J D 16228	Zapriagaeva V I 10553	
Wilder H J 8839	Wilson M L 13532	Wolf R 13835	Wygodzinsky P 13075	Zaribnicki F 12689	
Wileden A F 15877	15423	Wolf R E 10307	Wylam W E 9387	14088	
Wiley L 16226	Wilson M M 9379	Wolfe D M 11732	Wylie K H 13836	Zasada Z A 10585	
Wiley W H 11729	Wilson F 10624	Wolfe H S 7837	Wylie M 15997	10618	
Wilham C A 13511-2	Wilson R D 7961	Wolfer R 11656	Wylie R B 8105	Zavagli V 11076	
Wilhelm A 7959-60	Wilson S A 10303	Wolff E 12120	Wylie W D 12860	Zavala Bustos J 15435	
Wilhelm J 11071	Wilson T E 7632	Wolfs J 12799-800	Wyman D 9388	Zavattari E 11077	
Wilhelmy O Jr 13636	Wilson W K 12032	Wolken J J 11840	Wyman M S 9977	Zavoral H G 12171	
Wilke F 11516-17	Wilson W O 11730-1	11899	Wynn J 9521	Zechmeister L 8159	
Wilkins C S 14914-5	11990	Wondrausch A 9927	Wynne J D 14987	Zeck E H 12861	
Wilkins P C 13705	Wilster G H 13896	Wood A H Jr 9382		Zeeuw de 11900	
Wilkins V E 12687	Wimmer F X 11073	Wood G W 11249	Xavier L P 15989	Zehngraff P J 10585	
Wilkinson A K 9376	Wimmer J D 9380	Wood H E 9606	Ximénez de Embún J 10344 10371	Zeiler K 13897	
Wilkinson A M 8102	Winchell J H 10453	13311		Zemla L 9715	
Wilkinson E 11072	Winchester H A 10342	Wood I D 10091	Yamamoto Y 7692	Zerban F W 15084-5	
Wilkinson G 10166	Windel D 14270	Wood J I 7914	Yang S T 9681	Zetek J 10666	
Wilkinson J F 13189	Windham A B 13707	Wood M 15987	Yankovitch L 8390	Zetrouer J 11191	
Willaman J J 14365	Windisch K 15274	Wood M A 16070	9682 9775	Zeuthen E 8073	
Willard H S 11424	Windisch S 13834	Wood R 13193	Yanovsky J 8546	Zhuk Ia 13191	
Willatt N 14269	Winkler A J 8383	Wood S A 8415	Yarnell S H 9522	Zhupakhina E S 9773	
Willcox J S 10942	Winkler W O 14356	Wood W T 9383	Yciz A O 11190	Ziedler F 9389	
Willcox P H A 12588	Winner E B 11991	Woodcock D 8387	Yeaman A F 16056	Zieger E 10372	
Wille R 11369-70	Winsser J 11494-5	Woodford E K 8388	Yeckes M 14402	Ziegler E K 15881	
Willets M E 15689	Winter F H 14519	Woodhouse W W Jr 9976	Yen H C 7733	Zielinski A 11054	
Williams A C J 7631	Winter J D 9008	Woodin M D 13583	Yerg D G 13120	Ziemba J V 15123	
Williams C 10750	Winter T 15582	Woodman H E 10944	Yerkes A P 9748	Zieser F F 9153	
Williams C B 12278	Wintermans J J 13838	Woodmansee C W 14525	Yin H C 9683	Zikowsky F 12508-9	
Williams C M 13005	Winters L M 12139	Woodroff J G 13708	Yoder J B 9523	Zimmerman E C 12862	
Williams E 9377	Winters S R 10256	Woodroffe F B 9384	Yoshieka K 8547	Zimmerman P W 9563	
Williams F M 15986	Winther J E 10929	Woodruff N H 16190	Yothers M A 12925	Zimmermann W 13502	
Williams L O 9378	14129	Woods R 11796	Young F D 8839	Zimmermann-Griess S 8391	
Williams O G 8662	Winzenried H U 11426	16102	Young H N 13586	Zinn R 12219	
Williams W T 8103	Wirstad H F 11640	Woods R P 12688	Young J B 9923	Zischka R 13006	
Williamson L 13706	Wirt F A 13190	Woodward H R 9385	Young M D 12801	Zito F 15990	
Williamson M B 15366	Wirth D 11496	Woodward J 11503	Young P A 9524	Zkotorzycki J Z 13007	
Williamson M N 13261	Wischhusen J F 11074	Woodward R 11503	Young R A 7962	Zollikofer C 8392	
Willigne A H de 14354	Wis Crop and Livestock Rptg Serv 16227	Woodworth H C 16290	Youngken H W 9684	Zollikofer E 13898	
Willis P S 13637	Wise L E 10637	Woolrich W R 13501	Yu T M 10551	Zophoniasson P 11250	
Willkie H F 14636-7	Wiswell J G 7633	Work R A 10012	Yu T T 8704	Zorin A 11108	
Willman J P 12073	Withner C L 8104	Worth A 12506-7	Yudkin J 16103	Zorn 15553	
Wills R 14986	Withrow A P 8384	Worth W 9386	Yung F D 14609	Zorn W 10877	
Wills W J 14783	Witsch H V 8385	Woudenberg J P M 7839	Yvoirie D' 15690		
Willson L M 10824	Witte A 7836 10370	Wraight J D 8663		Zucker L M 11797	
Wilmot R J 9153	Witter J W 11189	Wramby G 11371	Zacharias C W B 15552	Zucker T F 11797	
Wilsmann W 14086	Wittkorn T H 11248	Wright E A 8055	Zacherl M K 11372	Zulueta J de 12802	
Wilson A R 8381	Wittock M 9381	Wright H M 15880	Zadra A 14087	Zulueta M M de 13638	
Wilson B S 15878	Wittrock G L 8766	Wright J C 8055	Zaehring M 16137	Zürcher H 12546	
Wilson C 8028	Wittwer S H 8304	Wright M 12279	Zahn H 14170	Zwagerman C 13838	
Wilson C C 8382	Wodruff J B 7838	Wright P H 9520	Zahnley J W 9607	Zwanenburg S 11172	
Wilson C M 14355	Woflenrarger D O 14418	10167 13411	Zakharov S A 9814	Zwanowetz R 13899	
Wilson E 13389	14271	Wright R W 13584	Zaki O A 11075	Zweede A K 13710-1	
Wilson F C 8764-5	Woglum R S 12405	14271	Zaliki T 9978	14526	
Wilson G H 9153	Wohlenberg E T F 10343	Wu L H 15186	Zammat M 12589	Zwiletsch F 12099	
Wilson H D 15434	Wojciechowski J 10250	Wu W H 15722	Zanuso E 15083	Zwintzsch M 8838	
Wilson H F 14342	Wojdylo P 11588	Wurm T 10825	Zanzibar Protect Dept of Agr 16196	Zykov I V 8056	
Wilson J D 7828	12218	Wurst G J 10552			
		Wurz K 13585			







# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 13 of the Bibliography of Agriculture will appear as number 12 of volume 13, the issue of December 1949.

United States Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications, is followed in this publication with the exception of the following: B.—Bulletin; C.—Circular; J.—Journal; P.—Publication; Q.—Quarterly; U.—University; U. S. D. A.—United States Department of Agriculture; Ybk.—Yearbook; Z.—Zeitschrift.

Items marked with an asterisk (\*) are ordinarily available in microfilm or photoprint only. Items marked with two asterisks (\*\*) have not been verified.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library at the following prices:

**MICROFILMS:**

Periodical Articles.—A flat charge of 50 cents for any single article, from any single volume of a periodical.

Books and Serial Publications.—50 cents for each 50 pages or fraction thereof.

**PHOTOPRINTS:**

50 cents for each 5 pages of text or fraction thereof.



## LIBRARY

## BIBLIOGRAPHY OF AGRICULTURE

Vol. 13

March 1949  
Items 16296-23589

No. 3

## CONTENTS

	Item		Item		Item
Plant Science	16296-17863	Materials for Soil Improvement		Veterinary Medicine	18901
Systematic and Geographic			18184	Miscellaneous	19019
Botany	16344	Primary Materials	18189	Cattle	19044
Spermatophytes	16368	Secondary and Minor Element		Breeds and Breeding	19044
Bryophytes	16482	Materials	18196	Feeds and Feeding	19172
Algae	16496	Mixed Fertilizers and Fertilizer		Veterinary Medicine	19218
Fungi and Lichens	16507	Technology	18199	Miscellaneous	19331
Pathology	16532	Fertilizer Statistics	18201	Dogs and Cats	19379
Fungus Diseases	16605	Manures and Composts	18214	Breeds and Breeding	19379
Bacterial Diseases	16690	Forestry	18231-18784	Feeds and Feeding	19396
Virus Diseases	16703	Economics and Policy	18231	Veterinary Medicine	19397
Nematodes	16733	Legislation	18268	Miscellaneous	19455
Ecology	16739	Description and Resources	18271	Fur Animals - Pen Raised	19462
Morphology, Anatomy, and		Individual Genera	18298	Breeds and Breeding	19462
Cytology	16759	Forest Administration and		Feeds and Feeding	19467
Genetics	16808	Management	18323	Veterinary Medicine	19470
Physiology	16820	Farm Woodlands	18357	Miscellaneous	19477
Biochemistry	16932	Mensuration	18375	Horses and Mules	19491
Field Crops	16955	Forest Protection and Damage		Breeds and Breeding	19491
Cereals	16975		18391	Feeds and Feeding	19540
Fiber Crops	17030	Fire	18403	Veterinary Medicine	19542
Forage and Grasses	17041	Meteorological Injuries	18413	Miscellaneous	19600
Oil Crops	17144	Silviculture	18414	Laboratory Animals, Small	19628
Sugar Crops	17162	Lumbering	18497	Breeds and Breeding	19628
Tobacco	17175	Equipment	18498	Feeds and Feeding	19630
Horticultural Crops	17178	Logging	18510	Veterinary Medicine	19632
Fruits	17235	Lumber Industry	18512	Miscellaneous	19633
Citrus and Subtropical	17300	Sawmills	18544	Poultry	19634
Deciduous	17319	Wood Technology	18549	Breeds and Breeding	19634
Small	17358	Preservative Treatment	18560	Feeds and Feeding	19723
Nuts	17415	Properties and Structure	18571	Veterinary Medicine	19790
Shade Trees and Ornamental		Seasoning, Conditioning, and		Miscellaneous	19902
Plants	17421	Finishing	18597	Rabbits	20009
Vegetables	17657	Forest Products	18616	Breeds and Breeding	20009
Weeds and Poisonous Plants	17769	Building Construction	18662	Feeds and Feeding	20033
Miscellaneous	17809	Charcoal	18664	Veterinary Medicine	20037
Soils and Fertilizers	17864-18230	Containers	18666	Miscellaneous	20050
Soil Science	17864	Cork	18671	Sheep and Goats	20057
Soil Physics	17871	Furniture	18679	Breeds and Breeding	20057
Soil Chemistry	17877	Naval Stores	18682	Feeds and Feeding	20082
Soil Biology	17888	Pulp and Paper	18686	Veterinary Medicine	20095
Soil-Plant-Animal Relation-		Tanning Material	18704	Miscellaneous	20121
ships	17892	Veneers, Plywood, and Adhesives		Swine	20152
Soil Genesis, Formation,			18706	Breeds and Breeding	20152
Classification, and Mapping		Wood as Fuel	18731	Feeds and Feeding	20167
	17910	Miscellaneous	18736	Veterinary Medicine	20192
Soil Management	17921	Education	18769	Miscellaneous	20231
Soil Fertility	17939	Forest Engineering	18779	Entomology	20246-20900
Tilth and Tillage	18044	Forest Influences	18760	General - Economic	20266
Drainage, Irrigation, Water		Wildlife	18783	Apiculture and Apis Mellifera	
Supply, etc.	18071	Animal Industry	18785-20245		20376
Erosion and Control	18125	Breeds and Breeding	18785	Colony Management	20421
Sanitation	18182	Feeds and Feeding	18826	Arachnida, etc.	20433
				Coleoptera	20473

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D.C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Diptera	20573	Packing and Packaging	21347	Insurance	22736
Culicidae	20620	Prices, etc.	21364	Taxation	22744
Hemiptera	20698	Processing and Storage	21386	Agricultural Labor and Wages	22760
Hymenoptera	20751	Statistics	21430	Agriculture - Situation, Policies	22790
Lepidoptera	20775	Beverages and Condiments	21444	and Programs	22911
Orthoptera	20846	Dairy Products	21545	Subsidies	22913
Sericulture and the Silkworm	20869	Analysis and Composition	21618	Cost and Standard of Living	22918
Smaller Orders	20871	Consumption, etc.	21647	Farm Management and Land	22992
Agricultural Engineering	20901-	Distribution, etc.	21654	Economics	22996
	21238	Grading, etc.	21688	Land Settlement and Colonization	23035
General and Miscellaneous	20901	Packing and Packaging	21712	Land Tenure	23055
Machines and Equipment	20916	Prices, etc.	21717	Land Utilization	23118
Animal Husbandry	20973	Processing and Storage	21729	Land Values, etc.	23133
Cultivation and Tillage	20999	Statistics	21813	Population	23140
Fertilizer and Seed Distributors	21011	Feed and Forage Crops	21817	Rural Social Organization	23149
	21017	Fibers and Textiles	21855	Human Ecology	23177
Harvesting	21032	Fruits, Vegetables, and Nuts	21950	Institutions	23184
Land Clearing	21032	Analysis and Composition	21988	Leadership	23295
Processing Equipment Used on	21035	Consumption, etc.	21999	Rural Organizations and	23297
the Farm	21035	Distribution, etc.	22006	Movements	23365
Repair, Maintenance, and Con-	21053	Grading, etc.	22033	Rural Social Psychology	23370
struction	21058	Packing and Packaging	22051	Trade, Foreign and International	23417-
Spraying and Dusting	21065	Prices, etc.	22060	Food and Human Nutrition	23497
Vehicles	21092	Processing and Storage	22063	Food Habits	23464
Structures and Rural Housing	21101	Statistics	22134	Nutritive and Vitamin Content	23465
Animal Shelters and Service	21101	Grain and Grain Products	22136	Miscellaneous	23498-23589
Buildings	21143	Honey and Beeswax	22264	History and Biography	23541
Farmhouses and Farmsteads	21143	Livestock and Livestock Products	22266	Home Management	23555
Greenhouses and Plant Service	21153	Analysis and Composition	22330	International Relations	23565
Buildings	21161	Distribution, etc.	22335	Meteorology	23566
Materials and Methods	21166	Grading, etc.	22370	Personnel	23572
Storage Structures	21172	Prices, etc.	22379	Research	23573
Walls and Fences	21183	Processing and Storage	22381	U. S. D. A. Publications	p. 154
Utilities	21183	Statistics	22408	State Agr. Expt. Sta. Publications	p. 162
Electricity and Electrification	21183	Oils and Oilseeds	22414	State Agr. Ext. Serv. Publications	p. 163
Heating, Lighting, and Radiation	21219	Poultry and Poultry Products	22492	AUTHOR INDEX	p. 165
Power Plants, Motors and	21226	Rubber and Rubber Substitutes	22587		
Engines	21230	Seeds	22601		
Water Supply	21239-	Sugar and Sirups	22611		
Agricultural Products: Processing,	21239-	Tobacco	22653		
Distribution, and Statistics	21239-	Miscellaneous Products	22662		
	22677	Agricultural Economics and Rural	22678-23416		
Analysis and Composition	21266	Sociology	22694		
Consumption, etc.	21279	Agricultural Finance	22700		
Distribution, etc.	21285	Credit	22727		
Grading, etc.	21338	Income	22735		
		Inflation			

Published with the Approval of the Director of the Bureau of the Budget.



## PLANT SCIENCE

## GENERAL

- 16296 ANGELY, J. Dictionary of botanical terms. (In Portuguese.) Rev. da Flora Med. 15: 227-258, 267-290, 347-360. (Cont.) June-Aug. 1948. 71.8 R32
- 16297 BACKEBERG, C. Prähistorische kakteenkunde. Sukkulantenkunde 1: 3-7. June 1947. 450 Su42 English summary.
- 16298 BALACHOWSKY, A. L'île de Port-Cros (Var), France, réserve faunistique et floristique méditerranéenne. Pro Natura 1: 49-60. Oct. 1948. 279.8 P942
- 16299 BALDWIN, S. G. Big trees of the Great Smokies. South. Lumberman 177(2225): 172-178. Jan. 3, 1949. 99.81 So82
- 16300 BARCLAY, H. G. The woody vegetation of Bear's Glen, a Washington Irving stopover. Okla. Acad. Sci. Proc. 28: 39-57. 1948. 500 Ok42
- 16301 BINNY, H. B. Chinese "dawn redwood" seeds planted in B. C. Woodland World 1(4): 6. Oct. 1948. 99.8 W853
- Metasequoia.
- 16302 BRIAN, P. W., CURTIS, P. J., and HEMMING, H. G. Gladiolic acid, an antibiotic substance produced by *Penicillium gladioli* McCull. & Thom. J. Gen. Microbiol. 2: 341-355. Ref. Sept. 1948. 448.3 J823
- 16303 BUTTIKOFER, J. La réserve zoologique et botanique de Camargue. Pro Natura 1: 65-76. Oct. 1948. 279.8 P942
- 16304 CAIN, S. A., and CAIN, L. G. Palynological studies at Sodon Lake. II. Size-frequency studies of pine pollen, fossil and modern. Amer. J. Bot. 35: 583-591. Nov. 1948. 450 Am36
- 16305 CARRERA, C. J. Las frutas en el Museo Carpológico; medios líquidos para su conservación. Corp. Frutícola Argentina. Rev. Gremial 14(164): 19-24. Aug. 31, 1948. 83 C81
- 16306 CHANEY, R. W. The miocene occurrence of Sequoia and related conifers in the John Day Basin. (Abs.) Science 108: 681. Dec. 17, 1948. 470 Sci2
- 16307 CHANG, N. C. In vitro antibacterial action of extracts from *Coptis chinensis* root. Soc. Expt. Biol. & Med. Proc. 69(1): 141-143. Oct. 1948. 442.9 So1
- 16308 CORSIN, P., and MONOMAKHOFF, C. Sur le houiller de La Machine, Bassin de Decize (Nièvre). Paris. Acad. des Sci. Compt. Rend. 227: 980-982. Nov. 8, 1948. 505 P21
- 16309 COSANDEY, F. Le nouveau jardin botanique de Lausanne. (Abs.) Naturf. Gesell. Bern. Mitt. (n. s.) 5: XXXII-XXXIII. 1948. 508 B45
- 16310 DUGGAR, B. M. Aureomycin: a product of the continuing search for new antibiotics. N. Y. Acad. Sci. Ann. 51: 177-181. Nov. 30, 1948. 500 N484
- 16311 ETTER, A. G. Seeds that ride livestock. Mo. Bot. Gard. B. 36: 170-172. Dec. 1948. 451 M69B
- 16312 FOGG, G. E. An apparatus for the culture of algae at constant temperature. Ann. Bot. [London] (n. s.) 12: 455-457. Ref. Oct. 1948. 450 An7
- 16313 GARDENER, J. Ueber pflanzenwanderung. Berufs Gärt. 1(8): 5-6. Aug. 1948. 80 B463
- 16314 GAUROY, P. La réserve zoologique et botanique de Camargue. Nature [Paris] 3163: 321-324. Nov. 1948. 473 N21
- 16315 GOODSPEED, T. H. El Jardín Botánico de la Universidad de California, en Berkeley. Cien. e Invest. 4: 423-426. Oct. 1948. 475 C482
- 16316 GYGAX, F., and FREY-HUBER, H. Das Bleniotal. (Abs.) Naturf. Gesell. Bern. Mitt. (n. s.) 5: XXXIII-XXXVII. 1948. 508 B45
- Vegetation.
- 16317 HAMNER, C. L. Flowers and greens can be preserved with plastic. Flower Grower 35: 862-863. Nov. 1948. 80 M72
- 16318 HAWORTH-BOOTH, M. Trees of character. Country Life [London] 104: 1166. Dec. 3, 1948. 80 C83
- 16319 JAMES, R. L. Some hummingbird flowers east of the Mississippi. Castanea 13: 97-109. Sept. 1948. 450 So82
- Flowers visited by hummingbirds.
- 16320 JANK, H. Das herbarium—ein weg zur pflanzenkenntnis! Anregungen und anleitungen zur anlage eines herbariums. Thür. Gartenbau 1947(18): 6-7. (To be cont.) Dec. 15, 1947. 80 T42
- 16321 LEBEN, C., and KEITT, G. W. An antibiotic substance active against certain phytopathogens. Phytopathology 38: 899-906. Ref. Nov. 1948. 464.8 P56
- 16322 LEY, W. The green fossil [Metasequoia]. Frontiers 13: 50-52. Dec. 1948. 410 F92
- 16323 LUNDAHL, W. S. Technique for mounting molds. Turtlox News 26: 189. Aug. 1948. 442.8 T86
- 16324 MAS-GUINDAL, A. Astrology and plants. (In Portuguese.) Rev. da Flora Med. 15: 291-312. July 1948. 71.8 R32
- 16325 NILSSON, D. On the *Stipa pennata* hills in Fal parish, their protection and present care. (In Swedish.) Sveriges Natur 39: 17-22. 1948. 410 Sv2
- 16326 OITAVEN, A. V. Las flores nacionales de America en el Jardín de La Paz de La Plata. Rev. Geog. Amer. 30: 186-192. Oct. 1948. 475 R322
- 16327 PETERSSON, B. Antonius Münchenberg's Herbarium Vivum. (In Swedish.) Bot. Notiser 1948: 223-269. Ref. 450 B656
- English summary.
- 16328 PRING, G. H. The Daniel Boone judgment tree. Mo. Bot. Gard. B. 36: 159-161. Dec. 1948. 451 M69B
- 16329 RICHARDSON, G. K., and SCHERY, R. W. The fleeting frost flowers. Mo. Bot. Gard. B. 36: 166-170. Dec. 1948. 451 M69B
- 16330 RICKER, P. L. Frost flowers. Wild Flower 24: 86-87. Oct. 1948. 451 W642
- 16331 RISLER, J. Production d'enzymes antibiotiques, par la méthode des cultures associées. Paris. Acad. des Sci. Compt. Rend. 227: 983-985. Nov. 8, 1948. 505 P21
- 16332 SAVICH, V. P. Evernia vulpina. (In Russian.) Priroda 37(10): 71-72. Ref. Oct. 1948. 410 P933
- As a source of the antibiotic, vulpic acid.
- 16333 SAX, K. New trees and shrubs for botanic gardens. Parks & Recreation 31: 722-724. Dec. 1948. 98.8 P23
- 16334 SKINNER, H. T. The Morris Arboretum. Parks & Recreation 32: 28-34. Jan. 1949. 99.8 P23
- 16335 SORIANO, A. Las exploraciones botánicas en la Patagonia Argentina. Cien. e Invest. 4: 443-453. Ref. Nov. 1948. 475 C482
- 16336 STEPHENS, S. G. A simple apparatus for adding Seitz-filtered components aseptically to [plant] embryo culture media. Nature [London] 162: 932. Dec. 11, 1948. 472 N21
- 16337 STRAUSBAUGH, P. D. Double flowers of *Trillium grandiflorum*. Castanea 13: 122-124. Sept. 1948. 450 So82
- 16338 SUNESON, S., and SANDEGREN, R. A new find of fossil, *Viscum album*, in Varmland, Sweden. (In Swedish.) Svensk Bot. Tidskr. 42: 258-272. Ref. 1948. 450 Sv2
- 16339 TARGOW, A. M. Pollen survey of Los Angeles 1941-1945. Ann. of Allergy 6: 645-654, 722. Ref. Nov./Dec. 1948. 448.8 An72
- 16340 WANDELL, W. N. Agricultural and wildlife values of habitat improvement plantings on the Illinois black prairie. North Amer. Wildlife Conf. Trans. 13: 256-270. 1948. 412.9 N814
- 16341 WEBER, W. A. The botanical collections of C. C. Parry in Colorado in 1867. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 42. Sept. 1948. 500 C717
- 16342 WEBER, W. A. The classification of the angiospermous fruits. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 38. Sept. 1948. 500 C717
- For botanical teaching.
- 16343 WILLIAMS, F. R. Flowers dried in borax: notes after eight years of experimentation. N. Y. Bot. Gard. J. 49: 251-253. Nov. 1948. 451 N48J

## SYSTEMATIC AND GEOGRAPHIC BOTANY

## General

- 16344 BOAS. Dynamische botanik und landwirtschaft. Land, Wald u. Garten 3: 1-3. Jan. 1948. 18 L22
- 16345 BOIVIN, B. Centurie de plantes canadiennes. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 69. 1948. 517 M76



- 16346 BURDUJA, C. Notes nouvelles et rectifications à la flore du district Iassy. (In Romanian.) Cluj. U. Jard. et Mus. Bot. B. 27: 85-87. Ref. 1947. 451 C62  
French summary.
- 16347 FRIES, M. Observations on the flora of Troll-dalen, a canyon in Dalarna, Sweden. (In Swedish.) Svensk Bot. Tidskr. 42: 281-287. Ref. 1948. 450 Sv2
- 16348 FRIES, R. E. Contributions to the flora of tropical America: XLVII-XLVIII. Kew B. 1948: 229-235, 303-322. 451 K51B
- 16349 GARDNER, C. A. Contributiones florae Australiae occidentalis. XII. Roy. Soc. West. Austral. J. 32: 75-83. 1945/1946, pub. 1948. 514 P432
- 16350 GOODMAN, G. J., and WATERFALL, U. T. Notes on Oklahoma plants. Okla. Acad. Sci. Proc. 28: 65-66. 1948. 500 Ok42
- 16351 HERINGER, E. P. Contribuição ao conhecimento da flora da zona da mata de Minas Gerais [Contribution to a knowledge of the flora of the forest zone of Minas Gerais]. Brazil. Serv. Nac. de Pesquisas Agron. B. 2, 187 p. Ref. Nov. 1947. 9.2 B738
- 16352 LEPAGE, E. Affinités occidentales dans la flore jamesienne. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 85-86. 1948. 517 M76
- 16353 LUTHER, H. Plants new to the northern most part of Uppland. (In Swedish.) Bot. Notiser 1948: 274-276. 450 B656
- 16354 MÄRTENSSON, S. Contribution to flora of Scania. (In Swedish.) Bot. Notiser 1948: 157-166. Ref. 450 B656
- 16355 POP, E. Angaben über hochmoore und moorpflanzen aus Rumänien. III. Die moore der gegend Căldăte. (In Romanian.) Cluj. U. Jard. et Mus. Bot. B. 27: 65-79. Ref. 1947. 451 C62  
German summary.
- 16356 A PRELIMINARY report on the biology and ecology of the Snowy River area in north-eastern Victoria. Melbourne Natl. Mus. Mem. 1947(15): 146-171. Oct. 1947. 514 M484  
Includes: Plants collected, identified by R. T. Patton, p. 147-150; Insects and arachnids, by A. N. Burns, p. 168-171.
- 16357 QVARFORT, S. Plants from the western part of Södermanland, Sweden. (In Swedish.) Svensk Bot. Tidskr. 42: 289-291. 1948. 450 Sv2
- 16358 REED, J. F. Botanical investigations in the Jackson Hole Wildlife Park. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 40. Sept. 1948. 500 C717
- 16359 RIOUX, J., and QUEZEL, P. Notes critiques sur quelques espèces du massif de l'Aigoual. Soc. Bot. de France. B. 95: 134-135. Mar./Apr. 1948. 451 F84B
- 16360 RYTZ, W. Pflanzengeographisches von einer reise durch Ost- und Nord-Spanien im April 1947. (Abs. Naturf. Gesell. Bern. Mitt. (n. s.) 5: XXXVII-XXXIX. 1948. 508 B45
- 16361 SANTAPAU, H. New plant names from India. Kew B. 1948: 276. 451 K51B
- 16362 SVENTENIUS, E. R. S. Plantas nuevas o poco conocidas de Tenerife. Spain. Inst. Nac. de Invest. Agron. Cuaderno 96, 19 p. May 1948. 105.6 Sp14C
- 16363 TODOR, I. Flora and vegetation of the Baile-Sarate Turdo. (In Romanian.) Cluj. U. Jard. et Mus. Bot. B. 27: 1-64. (To be cont.) 1947. 451 C62
- 16364 TOREN, C. A. Plants new to Scania. 1947. (In Swedish.) Bot. Notiser 1948: 273. 450 B656
- 16365 WHITING, M. M. Early collection of plants in Prince Edward Island. Kew B. 1948: 236. 451 K51B
- 16366 WIGER, J. Plants new to the border of Norrland. (In Swedish.) Bot. Notiser 1948: 276. 450 B656
- 16367 WILLIS, J. H. Flora of the Mud Islands, Port Phillip Bay. Melbourne Natl. Mus. Mem. 1947(15): 138-143. Oct. 1947. 514 M484
- Spermatophytes
- 16368 AIRY SHAW, H. K. A new Myristica from the Malay Peninsula. Kew B. 1948: 251-252. 451 K51B  
M. wyatt-smithii.
- 16369 AIRY SHAW, H. K. Studies in the Ericales: VII-VIII. Kew B. 1948: 158-162, 244-247. 451 K51B  
Gaultheria and Vaccinium.
- 16370 AKERS, J. New species from Peru. Cactus & Succulent J. 20: 154-156. Oct. 1948. 451 C11  
Peruvocereus albispinus and varieties.
- 16371 ALLARD, H. A. Vaccinium erythrocarpum—forma nigrum, f. novo. Castanea 13: 127. Sept. 1948. 450 So82
- 16372 ARWIDSSON, T. Observations on the upper level for growing vascular plants on the Helag mountain in Härjedalen. (In Swedish.) Bot. Notiser 1948: 359-361. 450 B656
- 16373 BALL, C. R. Schneider's three new Canadian willow species. Canad. Field-Nat. 62: 150-152. Sept./Oct. 1948. 410.9 Ot8
- 16374 BEWERUNGE, W. Rebutia senilis Bckbg. var. kesselringiana Bew. var. nov. Sukkulantenkunde 1: 9. June 1947. 450 Su42
- 16375 BLAKELOCK, R. A. Euonymus frigidus Wall. and its allies. Kew B. 1948: 237-244. 451 K51B
- 16376 BOIVIN, B. Deux espèces nouvelles de Westringia. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 69. 1948. 517 M76
- 16377 BOIVIN, B. Notes sur le genre Thalictrum. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 69. 1948. 517 M76
- 16378 BRADE, A. C. Synopsis of the Burmanniaceae of the Brazilian Flora. (In Portuguese.) Rio de Janeiro. Jard. Bot. Arq. 7: 11-42. Ref. Dec. 1947. 451 R47
- 16379 BREMEKAMP, C. E. B. Notes on the Acanthaceae of Java. Nederland. Akad. van Wetensch. Afd. Natuurk. Verhandl. 45(2), 78 p. Amsterdam, 1948. 503 Am8V
- 16380 BREMEKAMP, C. E. B. On a species of Danais Commers. ex Vent. occurring on the African continent. Kew B. 1948: 188-190. 451 K51B  
D. xanthorrhoea.
- 16381 BULARD, C. Quatre épices de la Chine centrale: P. ascendens, P. brachytyla, P. complanata, P. sargentiana. Soc. d'Hist. Nat. B. 82: 177-186. Apr. 30, 1948. 505 T64
- 16382 BULLOCK, A. A. Ampelocissus kirkiana: a new generic record for the Transvaal. Kew B. 1948: 187-188. 451 K51B
- 16383 BUTTERFIELD, H. M. Kalanchoe laciniata D. C. Desert Plant Life 20: 106. Sept. 1948. 450 D45
- 16384 BUXBAUM, F. Systematik- oder nomenklaturfragen? Sukkulantenkunde 1: 10-17. June 1947. 450 Su42  
English summary.
- 16385 CALDER, J. A. Two new records of Utricularia for the Ottawa district. Canad. Field-Nat. 62: 164-165. Sept./Oct. 1948. 410.9 Ot8
- 16386 CAMUS, A. Arthraxon (Graminées) nouveau de Madagascar. Soc. Bot. de France. B. 95: 149-150. Mar./Apr. 1948. 451 F84B  
A. antsirabensis.
- 16387 CAMUS, A. Le Quercus jenseniana Handel-Mazzetti. Soc. Bot. de France. B. 95: 132. Mar./Apr. 1948. 451 F84B
- 16388 CATTORINI, P. E. Species of Adonis. (In Italian.) Fitoterapia 19(4): 7-15. Oct./Dec. 1948. 450 F55
- 16389 CHANEY, R. W. Redwoods around the Pacific Basin. Pacific Discovery 1(5): 4-14. Ref. Sept./Oct. 1948. 500 P112
- 16390 CHATTERJEE, D. Amphicome - a superfluous genus of Bignoniaceae. Kew B. 1948: 183-185. 451 K51B
- 16391 CHATTERJEE, D. Pygeum andersoni Hook. f. and Pygeum mooneyi Raizada. Indian Bot. Soc. J. 27: 9-11. Feb. 1948. 450 J821
- 16392 CHATTERJEE, D. Teucrium plectranthoides Gamble. Kew B. 1948: 236. 451 K51B
- 16393 CHATTERJEE, D. Two interesting Saxifragas from eastern Assam and Burma. Indian Bot. Soc. J. 27: 20. Feb. 1948. 450 J821
- 16394 CHEESMAN, E. E. Classification of the bananas. III. Critical notes on species. Kew B. 1948: 145-157. 451 K51B
- 16395 CHEVALIER, C. Les tulipes botaniques. B. Hort. 66: 326-327, 342. Nov. 1948. 80 B873
- 16396 CLAUSEN, R. T. A reinterpretation of Sedum stenopetalum and Sedum lanceolatum. Cactus & Succulent J. 20: 143-146. Oct. 1948. 451 C11
- 16397 DAWSON, E. Y. Cacti in the herbarium of the Allan Hancock Foundation. Cactus & Succulent J. 20: 147-148. Oct. 1948. 451 C11
- 16398 DIMITRI, M. J., and ALBERTI, F. R. Tres plantas de adorno. Campo y Suelo Argentino 32(384): 64-65. Oct. 1948. 9 C15  
Idesia polycarpa, Dovyalis caffra, and Arechavaletaia uruguayensis.



- 16399 EUDES, M. J. Nos coníferes. Soc. Canad. d'Hist. Nat. Biblioth. des Jeunes Nat. Tract 87, 4 p. June 1, 1947. 517 So1
- 16400 FLORIN, R. Nothotaxus or Pseudotaxus? Bot. Notiser 1948: 270-272. 450 B656
- 16401 FRIDÉN, L. A new occurrence of *Stipa pennata* L. The steppe flora in a Kame landscape on the south-eastern Falbygden Plain. (In Swedish.) Bot. Notiser 1948: 204-222. Ref. 450 B656  
English summary.
- 16402 GOURLAY, W. B. Mexico and wild potatoes. Gard. Chron. 124: 174-175, 182-183, 190. Nov. 27-Dec. 11, 1948. 80 G162
- 16403 GUINEA LOPEZ, E. Agrostigrafia fernandina e hispano-guineana. Spain. Dir de Agr. de los Ter. Espan. del Golfo de Guinea. P. 13: 95-164. Madrid, 1948. 24 Sp2
- 16404 HAMET, R. Sur un nouveau *Kalanchoe* malgache: le *Kalanchoe mortagei*. Soc. Bot. de France. B. 95: 118-120. Mar./Apr. 1948. 451 F84B
- 16405 HARPER, R. M. More about Southern Appalachian endemics. Castanea 13: 124-127. Sept. 1948. 450 So82
- 16406 HARRINGTON, H. D. The genus *Carex* in Colorado. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 44. Sept. 1948. 500 C717
- 16407 HARRINGTON, H. D. Noteworthy woody plants of Colorado. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 37. Sept. 1948. 500 C717
- 16408 HART, T. S. Orchid discoveries of sixty years ago. Victorian Nat. 65: 107-108. Sept. 1948. 410 V66
- 16409 HEDBERG, O., and NYGREN, A. Some species introduced by the Germans in the province of Finnmark in northern Norway. Bot. Notiser 1948: 272. 450 B656
- 16410 HEISER, C. B., JR. Notes on the genus *Townsendia* in western North America. Madroño 9: 238-241. Oct. 1948. 450 M26
- 16411 HENDERSON, R. Wild flowers of southeastern Alaska. Wild Flower 24: 72-76, 85. Oct. 1948. 451 W642
- 16412 HERRE, H. Auf sammelreise in Südafrika. Sukkulantenkunde 1: 50-52. June 1947. 450 Su42  
English summary.  
Succulent plants.
- 16413 HERRE, H. Conophytum N. E. Br. Cactus & Succulent J. Gt. Brit. 10: 80-81. (Cont.) Oct. 1948. 450 C113
- 16414 HERRE, H. *Crassula deltoidea*. Desert Plant Life 20: 124. Oct. 1948. 450 D45
- 16415 HERZOG, T. Studien über kritische und neue *Lejeuneaceae* der Indomalaya. Svensk Bot. Tidskr. 42: 230-241. 1948. 450 Sv2
- 16416 HIBON, G. Apparition en France de deux plantes nord-américaines par suite de la dernière guerre. Soc. Bot. de France. B. 95: 118. Mar./Apr. 1948. 451 F84B  
*Iva xanthiifolia* and *Artemisia biennis*.
- 16417 HOEHNE, F. C. *Barbosellae brasiliæ australis novae varietates commutationesque in ipsius specierum nomenclatione*. Arq. de Bot. do Estado de S. Paulo (n. s.) 2: 74-75. 1947. 451 In7Ar  
In Portuguese.
- 16418 HOEHNE, F. C. Four new species of *Orchidaceae* in southeastern Brazil. (In Portuguese.) Arq. de Bot. do Estado de S. Paulo (n. s.) 2: 88-91. 1947. 451 In7Ar  
*Maxillaria ubatubana*, *Scuticaria strictifolia*, *Bulbophyllum mirandaianum*, and *Oncidium mazzinii*.
- 16419 HOEHNE, F. C. New species and contributions for a knowledge of the genus *Aristolochia* in South America. (In Portuguese.) Arq. de Bot. do Estado de S. Paulo (n. s.) 2: 95-103. 1947. 451 In7Ar
- 16420 HOEHNE, F. C. Observations and illustrations for two species of *Pleurothallis*. (In Portuguese.) Arq. de Bot. do Estado de S. Paulo (n. s.) 2: 94. 1947. 451 In7Ar
- 16421 HOEHNE, F. C. Present state of the subsection *Holochila* of the section *Aulizeum* of the genus *Epidendrum*, in Brazil. (In Portuguese.) Arq. de Bot. do Estado de S. Paulo (n. s.) 2: 77-87. 1947. 451 In7Ar
- 16422 HOEHNE, F. C. Reclassification of some species of *Maxillaria* of Brazil, and the establishment of two new genera for them. (In Portuguese.) Arq. de Bot. do Estado de S. Paulo (n. s.) 2: 65-73. 1947. 451 In7Ar  
*Pseudomaxillaria* and *Marsupiaria*.
- 16423 HOEVEL, O. *Lithops aurantiaca* L. Bol. Cactus & Succulent J. Gt. Brit. 10: 90. Oct. 1948. 450 C113
- 16424 HOWARTH, W. O. A synopsis of the British *Fescues*. Bot. Soc. & Exch. Club Brit. Isles. Rpt. 13: 338-346. Ref. 1948. 451 B653
- 16425 JANSE, J. A. *Euphorbia ammak* Schwf. Desert Plant Life 20: 117-119. Oct. 1948. 450 D45
- 16426 JOVET, P. Les *Nuxia* malgaches (sous-genre *Lachnopylis*). Soc. d'Hist. Nat. B. 82: 33-102. Oct. 30, 1947. 505 T64
- 16427 KRAINZ, H. Die arten der gattungen *Mediolobivia* Bckbg., *Aylostera* Speg., und *Rebutia* K. Sch. Sukkulantenkunde 1: 18-22. June 1947. 450 Su42  
English summary.
- 16428 KRAINZ, H. *Lobivia vatterii* Krainz spec. nov. Sukkulantenkunde 1: 7-8. June 1947. 450 Su42  
English summary.
- 16429 KUHLMANN, J. G., OCCHIONI, P., and FALCAO, J. I. DE A. Contribution to the study of the ruderal plants of Brazil. (In Portuguese.) Rio de Janeiro. Jard. Bot. Arq. 7: 43-133. Dec. 1947. 451 R47
- 16430 KUHNHOLTZ-LORDAT, G. Une station importante de *x Pistacia saportae* Burnat (*Anacardiaceae*). Soc. Bot. de France. B. 95: 148-149. Mar./Apr. 1948. 451 F84B
- 16431 KUPPER, W. Auf Melokakteen-suche auf der Insel Curaçao. Sukkulantenkunde 1: 22-24. June 1947. 450 Su42  
English summary.
- 16432 LEBEDEV, D. V. *Mestasequoia*—a living fossil. (In Russian.) Priroda 37(10): 72-73. Oct. 1948. 410 P933
- 16433 LEE, A. T. The genus *Swainsona*. N. S. Wales Natl. Herb. Contrib. 1: 131-271. Ref. July 1948. 451 N47
- 16434 LEITE, J. E. A new *Pleurothallis* from the fields of Jordão, São Paulo. (In Portuguese.) Arq. de Bot. do Estado de S. Paulo (n. s.) 2: 93. 1947. 451 In7Ar
- 16435 LITARDIÈRE, R. DE. *Festuca* nouveaux ou rares de France et d'Espagne, principalement des Pyrénées. Soc. d'Hist. Nat. B. 82: 110-122. Oct. 30, 1947. 505 T64
- 16436 LITTLE, E. L., JR. A collection of tree specimens from western Ecuador. Caribbean Forester 9: 215-298. Ref. July 1948. 1.9622 T2C23  
Spanish version, p. 288-298; French summary, p. 298.
- 16437 LITTLE, E. L., JR. *Copey oak*, *Quercus copeyensis*, in Costa Rica. Caribbean Forester 9: 345-353. Oct. 1948. 1.9622 T2C23  
Spanish translation p. 354-358.  
French summary p. 359.
- 16438 LOUSLEY, J. E. *Ficus carica* L. in Britain. Bot. Soc. & Exch. Club Brit. Isles. Rpt. 13: 330-333. 1948. 451 B653
- 16439 LUNDMAN, B. Elms from the vicinity of Uppsala, Sweden. (In Swedish.) Svensk Bot. Tidskr. 42: 242-248. 1948. 450 Sv2
- 16440 LUNDMAN, B. Observations on *Alnus glutinosa x incana*. (In Swedish.) Svensk Bot. Tidskr. 42: 287-288. 1948. 450 Sv2
- 16441 MACDOUGALL, T. *Lobeira macedougallii*—its fruit. Cactus & Succulent J. 20: 151. Oct. 1948. 451 C11
- 16442 MAIRE, R., and GATTEFOSSE, J. *Caralluma joannis* Maire. Cactus & Succulent J. Gt. Brit. 10: 91. Oct. 1948. 450 C113
- 16443 MAO, H. H. A systematic study of *Cucumis melo* L. in Lanchow. (In Chinese.) Agr. Assoc. China. J. 185: 17-26. Ref. Nov. 1947. 22.5 Ag862  
English summary.
- 16444 MARSDEN-JONES, E. M., and TURRILL, W. B. Researches on *Silene maritima* and *S. vulgaris*: XXIX-XXX. Kew B. 1948: 253-276. 451 K51B
- 16445 MASON, H. L. Some additional notes on *Polemoniaceae*. Madroño 9: 249-255. Oct. 1948. 450 M26
- 16446 MILNE-REDHEAD, E. *Ferdinandia* Welw. ex Seem. [Bignoniaceae], an unintentional orthographic error. Kew B. 1948: 170-171. 451 K51B
- 16447 MOLDENKE, H. N. An alphabetized list of citations. n. p., 1948? Pt. 1-2, A-L. 452 M732  
On *Verbenaceae*, *Menispermaceae*, *Avicenniaceae*, *Eriocaulaceae*, and *Herbaria*.
- 16448 MOLDENKE, H. N. The known geographic distribution of the members of the *Verbenaceae*, *Avicenniaceae*, *Stilbaceae*, and *Symphoremaceae*. Supplement 8. Castanea 13: 110-121. Sept. 1948. 450 So82



- 16449 MÜLLER-MELCHERS, F. C. Uruguayische Kakteen. Sukkulantenkunde 1: 26-28. June 1947. 450 Su42  
English summary.
- 16450 NELMES, E. Notes on British Carices. VII. Bot. Soc. & Exch. Club Brit. Isles. Rpt. 13: 334-337. 1948. 451 B653
- 16451 OCCHIONI, P., and OCCHIONI, A. Contribution to a botanical study of the casca d'anta, *Drimys brasiliensis* Miers. (In Portuguese.) Rio de Janeiro. Jard. Bot. Arq. 7: 135-155. Dec. 1947. 451 R47
- 16452 OCCHIONI, P. A new species in Canellaceae [*Cinnamodendron sampaioanum*]. (In Portuguese.) Rio de Janeiro. Jard. Bot. Arq. 7: 157-163. Dec. 1947. 451 R47
- 16453 OWNBEY, M. The identity and delimitation of *Allium tolmiei* Baker. Madroño 9: 233-238. Oct. 1948. 450 M26
- 16454 P'EI, C. Flowering plants of northwestern China. II. Acad. Sinica. Inst. Bot. Bot. B. 2: 215-227. Dec. 1948, pub. Sept. 22, 1948. 451 Ac1  
Betulaceae.
- 16455 PELLEGRIN, F. Les Annonacées du Gabon. III. Pachypodanthium, Letestudoxa, Annona, Uvariopsis, Hexalobus, Enantia. Soc. Bot. de France. B. 95: 136-141. Mar./Apr. 1948. 451 F84B
- 16456 PICHON, M. Classification des Apocynacées: X, genre "Mandevilla." Paris. Mus. Natl. d'Hist. Nat. B. (ser.2)20: 101-108. Jan. 1948. 410.9 P213
- 16457 PICHON, M. Classification des Apocynacées: XV, genres Trachelospermum, Baissea et Oncinotis. Paris. Mus. Natl. d'Hist. Nat. B. (ser. 2)20: 190-197. Feb. 1948. 410.9 P213
- 16458 PORSILD, A. E. The genus *Dryas* in North America. Canad. Field-Nat. 62: 162. Sept./Oct. 1948. 410.9 Ot8
- 16459 PORTER, C. L. The taxonomic position of *Astragalus albus* Wootton & Standley. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 38. Sept. 1948. 500 C717
- 16460 PUGSLEY, H. W. A prodromus of the British Hieracia. Linn. Soc. London. J. 54: 1-356. Ref. 1948. 451 L64J
- 16461 REINDERS-GOUWENTAK, C. A. Key to lauraceous woods from Java. Wageningen. Landbouwhoges. Meded. 49: 1-12. 1948. 105.2 W122
- 16462 REINDERS-GOUWENTAK, C. A., and STAHEL, G. Wood anatomy and systematic position of *Ropourea guianensis* Aubl. Wageningen. Landbouwhoges. Meded. 49: 17-24. 1948. 105.2 W122
- 16463 RIZZINI, C. T. Estudos sobre as Acanthaceae (disquisitiones in acanthaceis). Mus. Nac. B. Nov. Sér. Bot. 8, 38 p. July 10, 1947. 516 R47Bb
- 16464 ROSS-CRAIG, S. Drawings of British plants. London, Bell, 1948. 2 pts. 458 R73  
Pt. 1, Ranunculaceae; Pt. 2, Berberidaceae, Nymphaeaceae, Papaveraceae, Fumariaceae.
- 16465 SANTOS, E. C. DOS. Monograph on *Geissospermum vellosii*, commonly called pau pereira. (In Portuguese.) Rev. da Flora Med. 15: 315-339. Aug. 1948. 71.8 R32
- 16466 SCHULTES, R. E. Studies in the genus *Hevea* II. Harvard U. Bot. Mus. Leaflet 13: 97-132. Oct. 20, 1948. 451 H262
- 16467 SCHWANTES, G. System der Mesembryanthemaceen. Sukkulantenkunde 1: 34-40. June 1947. 450 Su42
- 16468 STEBBINS, G. L., JR., and WALTERS, M. S. The evolutionary significance of two synthetic allopolyploid species of *Bromus*. (Abs.) Science 108: 680. Dec. 17, 1948. 470 Sc12
- 16469 STRATTON, R. Some Oklahoma aquatic vascular plants. Okla. Acad. Sci. Proc. 28: 62-65. 1948. 500 Ok42
- 16470 SUMMERHAYES, V. S. African orchids: XVIII. Kew B. 1948: 277-302. 451 K51B
- 16471 SVENTENIUS, E. R. S. Estudio taxonómico en el género *Bencomia*. Spain. Inst. Nac. de Invest. Agron. Cuaderno 95, 20 p. Ref. May 1948. 105.6 Sp14C  
English, German and French summaries.
- 16472 TRUMBLE, H. C., WALKER, A. J. K., and PARKER, D. L. The identification of some common grasses and herbage legumes in South Australian pastures. Adelaide. U. Waite Agr. Res. Inst. Reprint 519, 14 p. May 1948. 109 Ad32Re
- 16473 VICIOSO, C. Estudios sobre el género "Rosa" en España. Spain. Inst. Forest. de Invest. y Exper. B. 19(40), 111 p. Madrid, 1948. 99.9 Sp1
- 16474 WATERFALL, U. T. Two additional genera for the Oklahoma flora. Okla. Acad. Sci. Proc. 28: 60-61. 1948. 500 Ok42  
Triphora and Reverchonia.
- 16475 WATSON, W. The unravelling of British "Rubus leucandrus Focke." Bot. Soc. & Exch. Club Brit. Isles. Rpt. 13: 327-329. 1948. 451 B653
- 16476 WEIMARCK, H. The genus *Cliffortia*, a taxonomical survey. Bot. Notiser 1948: 167-203. Ref. 450 B656
- 16477 WENT, F. W. Some parallels between desert and alpine flora in California. Madroño 9: 241-249. Oct. 1948. 450 M26
- 16478 WILLIAMS, L. O., and HOEHNE, F. C. A new species of *Phymatidium* in Brazil. (In Portuguese.) Arq. de Bot. do Estado de S. Paulo (n. s.) 2: 92. 1947. 451 In7Ar
- 16479 WILLIS, J. H. On the nature and distribution of "moonah" (*Melaleuca pubescens* Schauer). Victorian Nat. 65: 76-84. Aug. 1948. 410 V66
- 16480 WRIGHT, F. R. E. Note on *Sagina procumbens* var. *daviesii* (Druce) Druce. Bot. Soc. & Exch. Club Brit. Isles. Rpt. 13: 324-326. 1948. 451 B653
- 16481 ZANTNER, A. Interessante afrikanische blattsukkulanten. Sukkulantenkunde 1: 40-45. June 1947. 450 Su42  
English summary.  
Species of *Haworthia*.

## Bryophytes

- 16482 ARZENI, C. B. The formation of gemmae in *Blepharostoma trichophyllum* (L.) Dum. Bryologist 51: 197-200. Sept. 1948. 450 B84
- 16483 BOIVIN, B. Prodrome à une étude monographique du genre *Lycopodium*. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 68. 1948. 517 M76
- 16484 CAIN, R. F., and FULFORD, M. Contribution to the Hepaticae of Ontario. Bryologist 51: 174-185. Ref. Sept. 1948. 450 B84
- 16485 CLARK, L., and SVIHLA, R. D. *Frullania mirabilis*. Bryologist 51: 189-191. Sept. 1948. 450 B84
- 16486 FRYE, T. C., and DUCKERING, M. W. *Atrichum polycarpum*. Bryologist 51: 170-174. Sept. 1948. 450 B84
- 16487 FRYE, T. C. *Atrichum subulirostrum*. Bryologist 51: 186-188. Sept. 1948. 450 B84
- 16488 HODGSON, E. A., and SAINSBURY, G. O. K. Bryophytes collected by G. E. du Rietz on the Antipodes Islands. Svensk Bot. Tidskr. 42: 273-280. 1948. 450 Sv2
- 16489 KUCYNIK, J. Sur trois additions à la flore bryologique du Québec. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 67. 1948. 517 M76  
*Orthotrichum gymnostomum*, *Atrichum macmillani*, and *Jugermannia tristis*.
- 16490 KUCYNIK, J. Quelques Muscinées de la région du lac Témiscamingue. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 67. 1948. 517 M76
- 16491 POTIER DE LA VARDE, R. Contribution à la flore bryologique de l'Est Africain Portugais. Svensk Bot. Tidskr. 42: 249-257. Ref. 1948. 450 Sv2
- 16492 STEERE, W. C. Contribution to the bryogeography of Ecuador. I. A review of the species of Musci previously reported. Bryologist 51: 65-167. Ref. Sept. 1948. 450 B84
- 16493 THOMPSON, R. H. *Sphaerocarpos michelii* Bellardi in the United States. Bryologist 51: 168-169. Sept. 1948. 450 B84
- 16494 WELCH, W. H. Dimorphism in the leaves of *Fontinalis biformis* Sull. Bryologist 51: 194-197. Sept. 1948. 450 B84
- 16495 WELCH, W. H. Vegetative propagation in *Fontinalis*. Bryologist 51: 192-193. Sept. 1948. 450 B84

## Algae

- 16496 BLIDING, C. Über *Enteromorpha intestinalis* und *compressa*. Bot. Notiser 1948: 123-136. Ref. 450 B656  
English summary.
- 16497 CORILLION, R. Addition à la flore charologique de l'ouest de la France. II. Soc. Bot. de France. B. 95: 121-124. Mar./Apr. 1948. 451 F84B



- 16498 DICKINSON, C. I. Some misplaced Cyanophyceae. Kew B. 1948: 186. 451 K51B
- 16499 HÖHN-OCHSNER, W. Beiträge zur biologie der kleingewässer der herrschaft Wädenswil und ihrer grenzgebiete. Zürich. Geobot. Forschungsinst. Rübel. Ber. 1947: 112-151. Ref. 1948. 451 Z83Be  
Includes plankton.
- 16500 IRENEE-MARIE, FRÈRE. Les Desmidiées de la région des Trois-Rivières. (Abs.) Assoc. Canad.-Franc. pour l'Avanc. des Sci. Ann. 14: 66-67. 1948. 517 M76
- 16501 LEY, S. H. The subaerial algae from the Parcel Islands in the South China Sea. Acad. Sinica. Inst. Bot. Bot. B. 2: 235-242. Dec. 1948, pub. Sept. 22, 1948. 451 Acl
- 16502 LUCAS, C. E., and STUBBINGS, H. G. Continuous plankton records: size variations in diatoms and their ecological significance. Hull B. Mar. Ecol. 2: 133-171. June 1948. 410 H87
- 16503 MARGALEF, R. Limnosociología. Madrid, Instituto Español de Edafología, Ecología y Fisiología Vegetal, 1947. 93 p. (Consejo Superior de Investigaciones Científicas. Monografías de Ciencia Moderna. 10) 409 M33
- 16504 MAY, V. The algal genus Gracilaria in Australia. Austral. Council Sci. and Indus. Res. B. 235, 64 p. Mar. 1948. 514 Au72B
- 16505 WOOD, R. D. Proposed dates for T. F. Allen's exsiccatae (Characeae). Farlowia 3: 327-329. July 1948. 450 F22
- 16506 WOOD, R. D. A review of the genus Nitella (Characeae) of North America. Farlowia 3: 331-398. July 1948. 450 F22
- Fungi (Including Lichens)**
- 16507 BUCHWALD, N. F. Sclerotiniaceae daniae. I. (In Swedish.) Denmark. Vet.- og Landbohøjskole. Plantepatol. Afd. Meddel. 30, 330 p. København, 1947. 464.9 C79
- 16508 CASH, E. K. Six new Indian Discomycetes. Mycologia 40: 724-727. Nov./Dec. 1948. 450 M99  
New sp. in Dasyscyphella and Humaria.
- 16509 CUNNINGHAM, G. H. New Zealand Polyporaceae. 6-9. New Zeal. Dept. Sci. and Indus. Res. Plant Dis. Div. B. 77, 10 p.; 78, 5 p.; 79, 24 p.; 80, 10 p. Sept. 1948. 464.9 N486
- 6, The genus Coltricia; 7, The genus Inonotus; 8, The genus Fomes; 9, Trametes, Lenzites and Daedalea.
- 16510 DEGELIUS, G. Lichenological notes from a journey in southern Norway. (In Swedish.) Bot. Notiser 1948: 137-156. Ref. 450 B656  
English summary.
- 16511 DODGE, B. O., SINGLETON, J. R., and ROLNICK, A. Studies relative to a temporary revision of Neurospora tetrasperma to an 8-spored type. (Abs.) Science 108: 680. Dec. 17, 1948. 470 Sci2
- 16512 DUGHI, R. Observations nouvelles sur le genre Koerberia Mass. (Phycolichens). Soc. Bot. de France. B. 95: 125-132. Ref. Mar./Apr. 1948. 451 F84B
- 16513 DUPIAS, G. Étude expérimentale d'Urédinées hétéroxènes II. Soc. d'Hist. Nat. B. 82: 207-213. Ref. Apr. 30, 1948. 505 T64
- 16514 GRASSO, V. Species of Tilletia of wheat existing in Italy and their geographical distribution. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 525-547. Ref. 1948. 16 An76  
English summary.
- 16515 HANSFORD, C. G. Chinese fungi collected by S. Y. Cheo. Farlowia 3: 269-283. July 1948. 450 F22  
New spp. in Irenina, Meliola, Asterina and Eriomycopsis.
- 16516 HANSFORD, C. G., and THIRUMALACHAR, M. J. Fungi of South India. Farlowia 3: 285-314. July 1948. 450 F22  
New spp. in Dictyonella, Armatella, Amazonia, Irenopsis, Irenina, Meliola, Dimeriella, Chaetothyrium, Hario-tula, Stephanotheca, Asterolibertia, Asterina and Cercospora.
- 16517 HWANG, S. W. Variability and perithecium production in a homothallic form of the fungus, Hypomyces solani. Farlowia 3: 315-326. Ref. July 1948. 450 F22
- 16518 INGOLD, C. T. Spore guns and other dispersal mechanisms of fungi. Discovery 9: 314-319. Oct. 1948. 472 D63
- 16519 JACKSON, H. A. C. Notes on the higher fungi collected in LaSalle, Que., 1930-1940. Canad. Field-Nat. 62: 127-133. Ref. Sept./Oct. 1948. 410.9 Ot8
- 16520 LANGE, M. Two species of Coprinus with notes on their cultural characters. Mycologia 40: 739-747. Nov./Dec. 1948. 450 M99
- 16521 LAUBERT, R. Die blattfallkrankheit der stachelbeere. Z. f. Pflanzenkrankh. 55: 89-90. Mar./Apr. 1948. 464.8 Z3  
Gloeosporium ribis.
- 16522 LEFEBVRE, C. L., and SHERWIN, H. S. An undescribed species of Helminthosporium [H. sorghicola] on Sudan grass and sorghum. Mycologia 40: 708-716. Ref. Nov./Dec. 1948. 450 M99
- 16523 LEPAGE, E. Les lichens les mousses et les hépatiques du Québec. Nat. Canad. 75: 228-256. (Cont.) Aug./Oct. 1948. 410 N216
- 16524 MAINS, E. B. Two unusual fungi from Glacier National Park, Montana. Mycologia 40: 717-723. Ref. Nov./Dec. 1948. 450 M99  
Mesopsora hypericorum and Mitrula gracilis.
- 16525 MICHAELSON, M. E. Cultural studies of Actinomyces scabies (Thaxt.) Guss. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 37-38. Sept. 1948. 500 C717
- 16526 MRAK, E. M. Taxonomy and morphology of yeasts. (Abs.) Brewers Digest 23(12): 53. Dec. 1948. 390.8 B75
- 16527 PETERSON, B. A new find of Usnea florida (L.) Wigg. in Halland, Sweden. (In Swedish.) Svensk Bot. Tidskr. 42: 288. 1948. 450 Sv2  
English summary.
- 16528 SHEAR, C. L. Mycological notes. IX. Mycologia 40: 748-759. Nov./Dec. 1948. 450 M99  
Venturia, Antennaria, Antennularia, and Niesslia.
- 16529 SMITH, A. H. Studies in the dark-spored agarics. Mycologia 40: 669-707. Nov./Dec. 1948. 450 M99  
New spp. in Coprinus, Panaeolus, and Naematoloma.
- 16530 WHITE, W. L., and SIU, R. G. H., and REESE, E. T. The black Aspergilli in relation to cellulose substrata. Torrey Bot. Club. B. 75: 604-632. Ref. Dec. 1948. 451 T63B
- 16531 WICKERHAM, L. J., BURTON, K. A., and GILL, R. J. New methods in taxonomic study and maintenance of culture collections. (Abs.) Brewers Digest 23(12): 54. Dec. 1948. 390.8 B75  
Yeasts.
- PATHOLOGY**
- General**
- 16532 BALDWIN, V. Stem scald of potato vines. Iowa State Hort. Soc. Proc. 82: 294-295. 1948. 81 Io9
- 16533 BARRETT, J. T. A leaf and twig blight of California laurel, Umbellularia californica Nutt. (Abs.) Phytopathology 38: 912-913. Nov. 1948. 464.8 P56
- 16534 BEHR, L. Kohlhernie und kohlgaallenrüssler. Bauern-Jahrb. 1948: 55-57. 18 B322
- 16535 BERAN, F. Die frostspritzung, eine möglichkeit zur erhöhung der wirksamkeit ölhältiger winterspritzmittel. Pflanzenschutzberichte 2: 161-175. Oct. 1948. 464.9 P48  
English summary.
- 16536 BEREZINA, V. M. Development of bait method for the control of slugs. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 176-177. 1948. 464.9 L542S
- 16537 BIRKE, P. Was der praktische landwirt von der hagelschätzung wissen muss. Land, Wald u. Garten 3: 131-132. June 1948. 18 L22
- 16538 BÖNING, K. Grundriss des praktischen pflanzenschutzes. Stuttgart, Ulmer, 1948. 112 p. 464 B642
- 16539 BORDEN, A. D. Post harvest spraying of pear trees. Calif. Fruit & Grape Grower 2(9): 13. Sept. 1948. 95.8 G762
- 16540 BREHM. Schwarzwild und sperlinge, zwei schädlinge der landwirtschaft. Neue Mitt. f. die Landw. 3: 329. Oct. 15, 1948. 18 N39
- 16541 BRYZGALOVA, V. A. On the effectiveness of the new anti-smut preparation 12a (Irkutsk slag-arsine). (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 244-248. 1948. 464.9 L542S
- 16542 BUCKHURST, A. S. Ridding the garden of slugs. Amateur Gard. 65(3361): 20. Oct. 12, 1948. 80 Am13



- 16543 BURGOS, J. J. El clima y las enfermedades de las plantas. *Cult. Mod.* 31: 373-374. Oct. 1948. 15 C89
- 16544 BUTLER, F. C. Frost injury of wheat. *Agr. Gaz. N. S. Wales* 59: 481-484. Sept. 1948. 23 N472
- 16545 CALAVAN, E. C., and WHITE, F. A. Differences in susceptibility of lemon strains to dry bark. (Abs.) *Phytopathology* 38: 913. Nov. 1948. 464.8 P56
- 16546 CAMPBELL, W. A. *Phytophthora cinnamomi* associated with the roots of littleleaf-diseased short-leaf pine. *Plant Dis. Rptr.* 32: 472. Nov. 15, 1948. 1.9 P69P
- 16547 CARRERA, C. J. M. La lucha contra las enfermedades y plagas de los frutales. *Vinos, Viñas y Frutas* 44: 230-231. Nov. 1948. 9 Ag89
- 16548 CASA PACHECO, MARQUÉS DE. Plagas agrícolas vegetales. *Cult. Mod.* 31: 375. Oct. 1948. 15 C89
- 16549 CERASINO, C. Leaf curl of grapes. (In Italian.) *Risveglio Agr.* 7: 283. Aug. 15/31, 1948. 16 R49
- 16550 CHIAPPELLI, R. Red-skinned rice in the deterioration of our cultivated varieties. (In Italian.) *Risicoltura* 36: 160-165. (Concl.) Ref. July 1948. 59.8 G43
- 16551 CROWDY, S. H., and FORSHAW, J. E. A newly recorded bark disease of apple. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 156-157. 84 B77
- 16552 DARPOUX, H. Les maladies des plantes oléagineuses métropolitaines et leur traitement. *France. Min. de l'Agr. B. Tech. d'Inform.* 28/29: 193-200. Apr./May 1948. 14 F844B
- 16553 DOOLITTLE, W. T. White pine blight in relation to site and thinning. *J. Forestry* 46: 928-929. Dec. 1948. 99.8 F768
- 16554 FITCH, C. L. The course of health in potatoes. *Iowa State Hort. Soc. Proc.* 82: 298-302. 1948. 81 Io9
- 16555 FORSBERG, J. L. Diseases of *Gladiolus*. *Canad. Florist* 43(22): 10-12, 14-15. Nov. 15, 1948. 80 C163
- 16556 FORSBERG, J. L. Lessons in carnation diseases. I. *Carnation Craft* 7: 2. Oct. 1948. 80 C21
- 16557 FOURGEAUD, J. La désinfection des semences. *Paysan* 24(370): 13. Oct. 1948. 14 P29
- 16558 FOURGEAUD, J. A propos du dépérissement du pommier. *Defense Agr. de la Beauce et du Perche* 45: 328. Dec. 1, 1948. 14 D36
- 16559 FUCHS, W. H. Über einige grundbegriffe der phytopathologie. *Z. f. Pflanzenkrankh.* 55: 65-69. Mar./Apr. 1948. 464.8 Z3
- 16560 GALBERT, A. La degenerescence infectieuse ou "court-noue" de la vigne. *Révell Agr.* 57: 354. Dec. 1, 1948. 14 R322
- 16561 GIGANTE, R. Disease control in tobacco seedbeds. (In Italian.) *Riv. Fitosanit.* 2: 43-51. Aug. 1948. 464.8 R522
- 16562 HANSING, E. D., and JOHNSTON, C. O. Kansas phytopathological notes: 1947. *Kans. Acad. Sci. Trans.* 51: 318-323. Sept. 1948. 500 K13T
- 16563 HERRICK, R. S. Control of rodents and borers in the orchard. *Iowa State Hort. Soc. Proc.* 82: 58-61. 1948. 81 Io9
- Discussion, p. 61-65.
- 16564 HOCKEY, K. C. Diseases of fruit trees: the spraying programme. *New Zeal. Gard.* 5: 18-21. Sept. 1, 1948. 80 N4822
- 16565 HOOKER, W. J. Our potato disease studies up to date. *Iowa State Hort. Soc. Proc.* 82: 257-259. 1948. 81 Io9
- 16566 HUNTER, D. J. Fungus and other diseases of *Begonias* 15: 256-257, 263. Nov. 1948. 96.511 B39
- 16567 JEFFERS, W. F., and COX, C. E. Chemical treatments for control of sweetpotato diseases. *Peninsula Hort. Soc. Trans.* 61: 53-54. 1947. 81 P37
- 16568 JONSON, W. Spray your roses! *Golden Gardens* 13: 46, 53. Dec. 1948. 80 G56
- 16569 KANSAS STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. Tomato diseases, their control in Kansas, by C. L. King and O. H. Elmer. *Manhattan*, 1947. 4 p. 275.2 K133To
- 16570 KLOTZ, L. J., and EVANS, H. D. Control of citrus brown rot, gummosis, and rind oil spotting by long exposures to low, moist heat. (Abs.) *Phytopathology* 38: 916. Nov. 1948. 464.8 P56
- 16571 KRUIJK, P. A. New methods for control of diseases of fruit in greenhouses. (In Dutch.) *Groenten en Fruit* 3: 520. Mar. 25, 1948. 80 G89
- 16572 LARSEN, H. Crop rotation and plant diseases. (In Swedish.) *Försök och Forskning* 5: 14-15. Feb. 1948. 11 F77
- 16573 LOUW, A. J. Investigations on the cracking of Ohenimuri apples. *Farming So. Africa* 23: 596-602. Ref. Sept. 1948. 24 So842
- 16574 MCDUGALL, W. A. An investigation of the rat pest problem in Queensland canefields. 6. Controls and conclusions. *Queensland J. Agr. Sci.* 4: 79-139. Ref. Dec. 1947. 23 Q37
- 16575 MOSTERT, J. F. T. Guide to potato diseases and their elimination. *Farmer's Weekly [Bloemfontein]* 76: 52-53, 55. Nov. 10, 1948. 24 F225
- In South Africa.
- 16576 NANCE, N. W. Some unusual or outstanding plant disease developments in the United States in 1947. *Plant Dis. Rptr. Sup.* 177: 143-169. Oct. 15, 1948. 1.9 P69P
- 16577 NELSON, K. E., and HEWITT, W. B. Arsenite injury to grape canes through leaf scars. (Abs.) *Phytopathology* 38: 917. Nov. 1948. 464.8 P56
- 16578 NICOLAS, G., and AGGERY, M. Notes phytopathologiques. *V. Soc. d'Hist. Nat. B.* 82: 123-130. Oct. 30, 1947. 505 T64
- 16579 NISHIKADO, Y. Key to the diseases of agricultural plants in Japan, chiefly contrasted by the symptoms. 2. *Ohara Inst. Agr. Res. Rpt.* 37(3): 5-7. May 1948. 22.5 N684
- 16580 NISHIKADO, Y., and MIYAWAKI, Y. On the control of cotton diseases. 4. (In Japanese.) *Ohara Inst. Agr. Res. Rpt.* 37(1): 20-22. June 1947. 22.5 N684
- 16581 OSWALD, J. W., and KENDRICK, J. B. Leaf roll, net necrosis, and stem end browning in Netted Gem potatoes in California. (Abs.) *Phytopathology* 38: 917-918. Nov. 1948. 464.8 P56
- 16582 PAPE, H., and BOCKMANN, H. Landwirtschaftliche erzeugungssteigerung und pflanzenkrankheiten. *Neue Mitt. f. die Landw.* 3: 326-327. Oct. 15, 1948. 18 N39
- 16583 PEROTTI, R. On the dying of fruit trees in Alto Adige. (In Italian.) *Pisa. U. Facol. di Agr. Ann.* (n. s.) 8: 199-208. Nov. 10, 1948. 105.4 P672
- 16584 PEROTTI, R. Phytopathological notes for 1941-45. (In Italian.) *Pisa. U. Facol. di Agr. Ann.* (n. s.) 8: 69-83. Nov. 10, 1948. 105.4 P672
- 16585 PLAKIDAS, A. G. A convenient method for isolating slow-growing pathogenic fungi from plant tissues. *Phytopathology* 38: 928-930. Nov. 1948. 464.8 P56
- 16586 POLIAKOV, I. M. Use of iontophoresis in the control of internal infections in seeds. (In Russian.) *Leningrad. Inst. Zashch. Rast. Sborn. Trud.* 1: 239-243. 1948. 464.9 L542S
- 16587 POLLANETZ, E. Nutzen und schaden durch tiere und pflanzen. *Gart.-Z. Illus. Flora* 71: 163-164. Nov. 1948. 80 G1991
- 16588 RAMSFJELL, T. Frost injuries to apples in the vegetation period. (In Norwegian.) *Norsk Hagetiend* 64: 215-216. Nov. 1/15, 1948. 80 N81
- 16589 RIEDL, W. A., and FROSHEISER, F. I. The effect of leaf roll on the yield of Bliss Triumph potatoes. (Abs.) *Colo.-Wyo. Acad. Sci. J.* 3(6): 41-42. Sept. 1948. 500 C717
- 16590 ROSELLA, E. Les causes de brûlures sur les arbres fruitiers à la suite de traitements anti-parasitaire. *Agriculture [Paris]* 12: 357-358. Nov. 1948. 14 Ag823
- 16591 RYAN, R. W. Premature die-back of *Gladiolus* in England. *North Amer. Gladiolus Council B.* 16: 59. Dec. 1948. 96.43 N81
- 16592 SADLER, G. If your apples have eye rot, suspect canker. *Pop. Gard.* 50: 390. Dec. 11, 1948. 80 G1622
- 16593 SCHLEICHER, R. Welkeresistente asterzüchtungen. *Thür. Gartenbau* 1947(10): 5-6. Aug. 15, 1947. 80 T42
- 16594 SCHMIDT, M. Die bekämpfung von pflanzenkrankheiten auf züchterischem wege. *Land, Wald u. Garten* 3: 141-142. (To be cont.) June 1948. 18 L22
- 16595 SKOLKO, A. J. Forest pathology in Maritimes. *Canad. Soc. Forest Engin. Marit. Sect. Ann. Rpt.* (1947) 11: 74-76. 1948. 99.8 C167A
- 16596 SMITH, F. F., and BRIERLEY, P. Simulation of lily rosette symptoms by feeding injury of the foxglove aphid [*Myzus convolvuli*]. *Phytopathology* 38: 849-851. Nov. 1948. 464.8 P56



- 16597 STAAR, G. Vorbildliche pflanzenschutzpropaganda. Thür. Gartenbau 1948: 190-191. Nov. 15, 1948. 80 T42
- 16598 STOUT, G. L. Surveys to protect California crops against plant diseases. Tex. Farming & Citric 25 (4): 18-19. Oct. 1948. 80 T31
- 16599 STREETS, R. B. Diseases of guar (*Cyamopsis psoraloides*). (Abs.) *Phytopathology* 38: 918. Nov. 1948. 464.8 P56
- 16600 SWARTWOUT, H. G. Results of experiments in spraying grapes. Iowa State Hort. Soc. Proc. 82: 113-117. 1948. 81 I09
- 16601 THOMAS, W. D., JR. The control of *Fusarium* root rot and bacterial wilt of carnations by antibiotic fungi. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 39. Sept. 1948. 500 C717
- 16602 TORRE R., G. DE LA. Enfermedades y plagas de la papa. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr. 14: 41-43. (Cont.) July 1948. 9.8 P4352
- 16603 WERNHAM, C. C. The pure line or variety concept with respect to disease resistance in plants. *Plant Dis. Rptr.* 32: 479-481. Nov. 15, 1948. 1.9 P69P
- 16604 WESTCOTT, C. Your fight on insects and diseases. Natl. Gard. 19(11/12): 10-12, 22. Nov./Dec. 1948. 90.32 N21
- Diseases Caused by Fungi
- 16605 ALLERTON, F. W. Problems of fungus control. *Nurseryman & Seedsman* 107: 1202-1203. Oct. 21, 1948. 80 N933
- 16606 BENAS, G. Le Corynéum des arbres fruitiers. *Vaucluse Agr.* 4(79): 15. Nov. 15, 1948. 14 V26
- 16607 BERTIN, G. Un redoutable ennemi de la pomme de terre: le mildiou. *Paysan* 24(370): 5-6. Oct. 1948. 14 P29
- 16608 BLISS, D. E. Soil disinfestation in citrus orchards against *Armillaria* root rot. (Abs.) *Phytopathology* 38: 913. Nov. 1948. 464.8 P56
- 16609 BORZINI, G. Observations on methods for the study of the efficiency and physiological action of fungicides in the control of *Tilletia* on wheat. (In Italian.) *Riv. Fitosanit.* 2: 54-57. Aug. 1948. 464.8 R522
- 16610 BOWMAN, G. F. Black rot of cacao. (In Portuguese.) *Fazenda* 43(10): 46, 48. Oct. 1948. 6 H11P
- 16611 BOTTAZZI, A. Wheat caries. (In Italian.) *Avvenire Agr.* 56: 180-181. Aug. 1948. 16 Av9
- 16612 BRIDGMON, G. H., and STARR, G. H. Studies on the white mold of beans caused by *Sclerotinia sclerotiorum*. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 43. Sept. 1948. 500 C717
- 16613 BURCHFIELD, H. P., GULLSTROM, D. K., and MCNEW, G. L. Agricultural dusts: preparation of dusts of uniform particle size by fractional sedimentation. *Analyt. Chem.* 20: 1168-1173. Ref. Dec. 1948. 381 J825A
- Fungicides.
- 16614 CALAVAN, E. C., and KEITT, G. W. Blossom and spur blight (*Sclerotinia laxa*) of sour cherry. *Phytopathology* 38: 857-882. Ref. Nov. 1948. 464.8 P56
- 16615 CALAVAN, E. C., and WALLACE, J. M. Exo-sporina branch blight of grapefruit in southern California. (Abs.) *Phytopathology* 38: 913. Nov. 1948. 464.8 P56
- 16616 CHUMAKOV, A. E. Role of biotic factors in limiting soil infection with *Helminthosporium sativum*, the cause of root rot of wheat. (In Russian.) *Leningrad. Inst. Zashch. Rast. Sborn. Trud.* 1: 43-46. 1948. 464.9 L542S
- 16617 CLAYTON, E. E. Controls developed for blue mold of tobacco. U. S. Agr. Res. Admin. Res. Achvt. Sheet 107, 2 p. Oct. 1948. 1.98 R31
- 16618 COLE, J. R. Zinc dimethyldithiocarbamate (Zerlate or Karbam White), a promising fungicide for pecan scab control. *Phytopathology* 38: 921-922. Nov. 1948. 464.8 P56
- 16619 COX, C. E. Effect of fungicidal sprays on control of downy mildew and yield of cantaloupes in Maryland in 1947. *Peninsula Hort. Soc. Trans.* 61: 55-56. 1947. 81 P37
- 16620 CROWDY, S. H. A progress report on the effect of certain organic acids on the growth of *Nectria galligena*. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 158-163. 84 B77
- On apple.
- 16621 DOOLITTLE, S. P. Comments on the tomato late blight situation. *Peninsula Hort. Soc. Trans.* 61: 43-48. 1947. 81 P37
- 16622 DUNDAS, B. Mutation in bean rust uredospores in cold storage. (Abs.) *Phytopathology* 38: 914. Nov. 1948. 464.8 P56
- 16623 DUNEGAN, J. C., and GOLDSWORTHY, M. C. Recent studies on the control of peach brown rot. *Peninsula Hort. Soc. Trans.* 61: 23-25. 1947. 81 P37
- 16624 EGUINO Z., A. Mildew de la papa: *Phytophthora infestans* (Mont.) De By. *Campo [La Paz]* 2(15): 10-12. July 1948. 9.1 C15
- 16625 FEICHTMEIR, E. F. The effect of particle size and solubility of sulfur in carbon disulfide upon its toxicity to fungi. (Abs.) *Phytopathology* 38: 914. Nov. 1948. 464.8 P56
- 16626 GOIDANICH, G., and MEZZETTI, A. Investigations on the biology of *Melanospora damnosa* (Sacc.) Lindau. II. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2: 489-514. Ref. 1948. 16 An76
- English summary.
- 16627 GUBA, E. F. Action of chemicals on fungous pathogens causing carnation diseases. *Carnation Craft* 7: 4, 7-8. Oct. 1948. 80 C21
- 16628 GULLSTROM, D. K., and BURCHFIELD, H. P. Agricultural dusts: determination of particle size distribution. *Analyt. Chem.* 20: 1174-1177. Ref. Dec. 1948. 381 J825A
- Fungicidal and insecticidal dusts.
- 16629 HEUBERGER, J. W. Fungicides for the control of downy mildew disease on cucumbers and cantaloupes. *Peninsula Hort. Soc. Trans.* 61: 48-53. 1947. 81 P37
- 16630 HIRT, R. R. Evidence of resistance to blister rust by eastern white pine growing in the Northeast. *J. Forestry* 46: 911-913. Ref. Dec. 1948. 99.8 F768
- 16631 JAENTSCH, W. Stachelbeermehltau-bekämpfung. *Land, Wald u. Garten* 3: 145-146. June 1948. 18 L22
- 16632 JEHLE, R. A., and JENKINS, A. E. Cases of scab on violet and pansy in Maryland. *Phytopathology* 38: 925-928. Nov. 1948. 464.8 P56
- 16633 JØRGENSEN, C. A., and TRESCHOW, C. On the control of root- and butt-rot, caused by *Fomes annosus* (Fr.) Cke by superficial planting and by the application of lime and phosphate. (In Danish.) *Denmark. Forstl. Forsøgskomm. Forstl. Forsøgsv. i Danmark* 19: 253-284. Ref. 1948. 99.9 D41
- English summary.
- 16634 KENDRICK, J. B., JR., and MIDDLETON, J. T. Cladosporium spot of cowpea in southern California. *Plant Dis. Rptr.* 32: 478. Nov. 15, 1948. 1.9 P69P
- 16635 KENDRICK, J. B., JR., and MIDDLETON, J. T. A disease index for *Verticillium* wilt of pepper. (Abs.) *Phytopathology* 38: 915. Nov. 1948. 464.8 P56
- 16636 KLOTZ, L. J., and STEWART, W. S. Observations on the effect of 2,4-D on citrus fruit-stem dieback. (Abs.) *Phytopathology* 38: 915. Nov. 1948. 464.8 P56
- 16637 LEACH, L. D. Effects of combining fungicidal treatments and coating of seeds. (Abs.) *Phytopathology* 38: 916. Nov. 1948. 464.8 P56
- 16638 LIBOIS. La lutte contre la carie et les charbons des céréales. *Voix des Colons* 30(1473): 2. Oct. 11, 1948. 24 V85
- 16639 LIMBER, D. P. Sori of *Urocystis gladioli* on *Gladiolus* corm scales. *Phytopathology* 38: 922-925. Nov. 1948. 464.8 P56
- 16640 LOUW, A. J. *Fusicladium* of apples. I-III, V. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 60(i), 5 p; (ii), 4 p; (iii), 4 p; (v), 8 p. Aug.-Oct. 1947, Feb. 1948. 87 St3
- 16641 MCMICHAEL, S. C., and BRINKERHOFF, L. A. Cotton seed treatment tests at the U. S. Cotton Field Station, Shafter, California. *Plant Dis. Rptr.* 32: 466-471. Nov. 15, 1948. 1.9 P69P
- 16642 MAGIE, R. O., and MILLER, H. N. A new method of controlling storage rot of *Gladiolus*. *North Amer. Gladiolus Council B.* 16: 47, 49. Dec. 1948. 96.43 N81
- 16643 MASTENBROEK, C. Late blight [*Phytophthora infestans*] on potatoes is dangerous. (In Dutch.) *Netherlands. Landbouwwoorlichtingsdienst. Maandbl.* 5: 486-491. Oct. 1948. 12 N383M
- 16644 MENGUE, J. Attention à la carie du blé. *Défense Agr. de la Beauce et du Perche* 45(29): 284-285. Oct. 20, 1948. 14 D36



- 16645 MIDDLETON, J. T., and SNYDER, W. C. Pythium wilt of Phaseolus, Pisum, and Vigna. (Abs.) Phytopathology 38: 917. Nov. 1948. 464.8 P56
- 16646 MILLER, P. W., and MCWHORTER, F. P. A disease of cabbage and other crucifers due to Cercospora brassicae. Phytopathology 38: 893-898. Ref. Nov. 1948. 464.8 P56
- 16647 MONTEVERDE, M. A. Que son las royas del trigo. Campo y Suelo Argentino 32(384): 44-45. Oct. 1948. 9 C15
- 16648 MOULOPOULOS, C. The fungus Endothia parasitica and the chestnut forests of Greece. (In Greek.) Dasos 1(1): 97-99. 1947. 99.8 D262  
Titles in English and French.
- 16649 NAKAYAMA, T. Temperature relations to the mycelial growth and the spore germination of Cercospora oryzae, the causal fungus of a rice stripe disease. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 22-23. June 1947. 22.5 N684
- 16650 NAUMOV, N. A. Disease of winter rye caused by a new species of Peronosporaceae, Sclerospora secalina N. Naum. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 51-59. 1948. 464.9 L542S
- 16651 NISHIKADO, Y., and NAKAYAMA, T. On the hot-water treatment of seed-wheat in the non-farming season. Ohara Inst. Agr. Res. Rpt. 37(3): 8-10. May 1948. 22.5 N684
- 16652 NISHIKADO, Y., NAKAYAMA, T., and MIYAWAKI, Y. Studies on the methods for testing the effectiveness of fungicides. 2. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 16-18. June 1947. 22.5 N684
- 16653 OPPENHEIM, R. Downy mildew threatens entire Pacific Coast hop crop. Hopper 5(6): 9-10. Sept. 1948. 70.8 H77
- 16654 PADMANABHAN, S. Y. A new seedling disease of brinjals. Indian J. Agr. Sci. 17: 393-395. Dec. 1947. 22 Ag831  
Ascochyta melongenae, n. sp.
- 16655 PLAKIDAS, A. G. Rust on peanuts in Louisiana. Plant Dis. Rptr. 32: 482. Nov. 15, 1948. 1.9 P69F
- 16656 RICHARDS, M. C., and HODGDON, A. R. Willow scab in New Hampshire. Plant Dis. Rptr. 32: 483. Nov. 15, 1948. 1.9 P69P  
Fusicladium saliciperdu.
- 16657 SALISBURY, G. A. Fighting brown rot. Mich. Farmer 211: 22. Jan. 1, 1949. 6 M58  
On peaches.
- 16658 SCHAAL, L. A. The reaction of Pawnee and Bliss Triumph potatoes to certain physiologic races of Actinomyces scabies. Amer. Potato J. 25: 427-431. Dec. 1948. 75.8 P842
- 16659 SCHAAL, L. A., and FULTS, J. Some preliminary studies on the antagonism of soil fungi and bacteria to Actinomyces scabies. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 39. Sept. 1948. 500 C717
- 16660 SCHENK, P. J. Botrytis cinerea, gray mold. (In Dutch.) Groenten en Fruit 4: 339. Dec. 9, 1948. 30 G89
- 16661 SCHENK, P. J. Club root of cabbage. (In Dutch.) Groenten en Fruit 4: 275. Nov. 11, 1948. 80 G89
- 16662 SCHÖBER, R., and ZYCHA, H. Beobachtungen über stockfäule in nordwestdeutschen lärchenbeständen. Forstwiss. Centbl. 67: 119-128. Nov. 1948. 99.8 F775
- 16663 SERGEEVA, K. S. On the wintering methods of Uromyces fallens. (In Russian.) Priroda 37(4): 51. Apr. 1948. 410 P933  
On clover.
- 16664 SHIRKO, V. N. Take-all of cereals in the wet districts of U. S. S. R. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 47-50. 1948. 464.9 L542S  
Ophiobolus graminis on wheat and barley.
- 16665 SHUMAKOVA, A. A. Testing of "bluish" spraying method in the control of apple scab. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 208-212. 1948. 464.9 L542S  
Spraying with concentrated Bordeaux mixture solution which gives trees bright blue color.
- 16666 SIBILIA, C. Aspergillus niger in plant pathology. (In Italian.) Riv. Fitosanit. 2: 30-32. Feb. 1948. 464.8 R522
- 16667 SILVA, A. R. DA. Estudos preliminares para a produção de variedades de trigo resistentes às ferrugens no Brasil [Preliminary studies for the production of rust-resistant wheat varieties in Brazil]. Brazil. Serv. Nac. de Pesquisas Agron. B. 1, 53 p. Ref. June 1947. 9.2 B738
- 16668 STEPANOV, K. M., and SHALYSHKINA, V. I. Helminthosporium sativum on spring wheat in Altai Region. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 32-42. Ref. 1948. 464.9 L542S
- 16669 SWARTENBROEKX, J. The root disease and the dying of the vine; Rosellinia necatrix (Hart.) Belr. (In Flemish.) Cult. en Handel 14: 774. Dec. 1948. 80 C892
- 16670 SWARTWOUT, H. G. Control of raspberry anthracnose. Iowa State Hort. Soc. Proc. 82: 118-119. 1948. 81 I09
- 16671 SWARTWOUT, H. G. New fungicides and their value in controlling apple scab and other diseases. Iowa State Hort. Soc. Proc. 82: 78-83. 1948. 81 I09  
Discussion, p. 83-86.
- 16672 THENAND, J. La carie du blé. Vaucluse Agr. 4(80): 12. Dec. 1, 1948. 14 V26
- 16673 THOMAS, W. D., JR., and GRAHAM, R. W. Potato late-blight forecasting in Colorado. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 42. Sept. 1948. 500 C717
- 16674 TIRELLI, M. New methods for grain disinfection. (In Italian.) Riv. Fitosanit. 2: 58-61. Aug. 1948. 464.8 R522
- 16675 TROUBETZKOY, P. Les oxychlorures de cuivre dans le traitement anti-carie des semences. Agr.-Cher 2(9): 3. Oct. 15, 1948. 14 Ag892
- 16676 TUPENEVICH, S. M. Root rot and turning brown of the kernel in wheat due to Helminthosporium sativum P. K. et B. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 3-31. Ref. 1948. 464.9 L542S
- 16677 VELLOZO, L. G. C., and NOWACKI, M. J. Preliminary list of fungi observed by the Division of Phytopathology during 1946 and 1947. (In Portuguese.) Arq. de Biol. e Tecnol. 2: 221-224. 1947. 475 Ar62  
English summary.  
Brazil.
- 16678 WARDEN, J. R. A study of the sugar beet seedling disease in Ohio. Phytopathology 38: 883-892. Ref. Nov. 1948. 464.8 P56  
Aphanomyces cochlidioides.
- 16679 WARDLAW, C. W. Vascular wilt disease of oil palms in Nigeria. Nature [London] 162: 850-851. Nov. 27, 1948. 472 N21  
Fusarium oxysporum.
- 16680 WATKINS, G. M., and KLEMME, D. E. Some effects of dextrose concentration upon the action of a fungicide, 2,2-methylenebis (4-chlorophenol). Amer. J. Bot. 35: 622-627. Ref. Nov. 1948. 450 Am36
- 16681 WERNHAM, C. C., and MILLER, H. J. Longevity of fungus cultures under mineral oil. Phytopathology 38: 932-934. Nov. 1948. 464.8 P56
- 16682 WESTON, W. A. R. D. Take-all—or black mould? Farmer & Stock-Breeder 62: 2413. Oct. 19, 1948. 10 F228  
Of wheat and barley.
- 16683 WHITEHEAD, M. D., and DICKSON, J. G. The influence of germination temperatures on seedling development of Helminthosporium blights of oats. Amer. Soc. Agron. J. 40: 1092-1099. Dec. 1948. 4 Am34P
- 16684 WILSON, E. E. Relation of temperature and moisture to the effectiveness of sodium pentachlorophenate as an eradicant spray against Sclerotinia laxa. (Abs.) Phytopathology 38: 919. Nov. 1948. 464.8 P56
- 16685 WINKLER, H. Kampf dem ulmensterben. Forstw., Holzw. 2: 230-231. Aug. 1, 1948. 99.8 F7793
- 16686 YARWOOD, C. E. Apricot jacket rot. (Abs.) Phytopathology 38: 919-920. Nov. 1948. 464.8 P56
- 16687 YOUNG, P. A. Charcoal rot in pepper roots. Plant Dis. Rptr. 32: 482-483. Nov. 15, 1948. 1.9 P69P  
Sclerotium bataticola on pepper.
- 16688 ZAITSEVA, A. I. Biology of kokh-saghyz rust fungus [Puccinia taraxaci R.]. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 136-140. 1948. 20 M857
- 16689 ZANDE, V. D., and KRUIJK. Grape growers watch out. (In Dutch.) Groenten en Fruit 4: 267. Nov. 4, 1948. 80 G89  
Dead arm disease of grapes.

## Diseases Caused by Bacteria

- 16690 BURKE, D., and STARR, G. H. Direct measures used on control-tests of bacterial blight of beans. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 43. Sept. 1948. 500 C717



- 16691 CABRAL, R. V. DE G. A study of the plant pathogen *Xanthomonas begoniae* (Takimoto) Dowson. Cambridge U. Abs. Diss. 1944/1945: 13-14. 1948. 241.8 C14
- 16692 CLAYTON, E. E. New wilt-resistant tobacco variety worth \$2,000,000 annually. U. S. Agr. Res. Admin. Res. Achvt. Sheet 106, 2 p. Oct. 1948. 1.98 R31
- 16693 DAY, L. H. Stone fruits on peach root resist bacterial canker. Blue Anchor 24(4): 17, 40. Nov. 1947. 286.83 B62
- 16694 HANSEN, H. N. A canker disease of figs. (Abs.) Phytopathology 38: 914-915. Nov. 1948. 464.8 P56
- 16695 HORNBOSTEL, W. Beitrag zur frage der wurzelkropfbekämpfung. Z. f. Pflanzenkrank. 55: 69-75. Mar./Apr. 1948. 464.8 Z3
- 16696 LANE, G. H. Potato ring rot control by the use of knife disinfectants. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 45. Sept. 1948. 500 C717
- 16697 LANE, G. H., KUNKEL, R., and KREUTZER, W. A. Tests of cutting knife disinfectants and cutting techniques in the control of ring rot of potatoes. Amer. Potato J. 25: 446-454. Dec. 1948. 75.8 P842
- 16698 MACFARLANE, C. S. The activity of the "vlamsiekte" organism in soils. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 65, 3 p. Oct. 1947. 87 St3
- Erwinia vitivora.
- 16699 SMITH, W. P. C., and STEWART, R. Leaf spot disease of black mulberry. West. Austral. Dept. Agr. Leaflet 886, 6 p. Perth, 1947. 23 W52B
- 16700 STARR, G. H., and RIEDL, W. A. A comparison of *Corynebacterium sepedonicum* inocula from resistant and susceptible potato varieties. Amer. Potato J. 25: 432-437. Dec. 1948. 75.8 P842
- 16701 STARR, G. H. Potato ring-rot studies in 1947 (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 41. Sept. 1948. 500 C717
- 16702 THORNBERRY, H. H., EISENSTARK, A., and ANDERSON, H. W. Studies on the bacteriophage of *Xanthomonas pruni*. Phytopathology 38: 907-911. Ref. Nov. 1948. 464.8 P56
- Viruses and Virus Diseases**
- 16703 BOYER, C. A. Work done in virus in Michigan. Iowa State Hort. Soc. Proc. 82: 160-163. 1948. 81 Io9
- 16704 BUCHHOLTZ, W. F. Characteristics of cherry yellows. Iowa State Hort. Soc. Proc. 82: 158-159. 1948. 81 Io9
- 16705 CLINCH, P. E. M., and LOUGHNANE, J. B. Seed transmission of virus yellows of sugar beet (*Beta vulgaris* L.) and the existence of strains of this virus in Eire. Roy. Dublin Soc. Sci. Proc. (n. s.) 24: 307-318. Ref. Sept. 1948. 501 D85
- 16706 FEDOTOVA, T. I. Leaf curl of cotton. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 79-82. 1948. 464.9 L542S
- Morphological analysis of virus infected seeds.
- 16707 GIDDINGS, N. J. Curly top of muskmelon. Phytopathology 38: 934-936. Nov. 1948. 464.8 P56
- 16708 GREEN, D. E. Dahlias and virus disease. Amateur Gard. 65(3362): 19. Oct. 19, 1948. 80 Am13
- 16709 HEINZE, K. Das pflanzliche virus im über-träger. Natur u. Volk 78: 65-74. June 1, 1948. 509 F856
- 16710 JOGLAR RODRÍGUEZ, F. El mosaico enfermedad peligrosa del tabaco. Rev. del Café 4(6): 15. Nov. 1948. 8 R3295
- 16711 JOLY, M. Etude par la biréfringence d'écoulement des modifications du virus de la mosaïque du tabac. Soc. de Chim. Biol. B. 30: 404-409. Ref. July/Aug. 1948. 383 Sol
- 16712 KAUSCHE, G. A., and HAHN, F. Über die kohlehydratkomponente der nukleinsäuren einiger pflanzlicher virusproteine. Makromolekulare Chem. 2: 113-119. Aug. 1948. 384 M28
- 16713 KVIČALA, B. A. Studies on the composite nature of cauliflower mosaic with a special regard to the selective transmission of both viruses in this complex disease by certain aphids. (In Czech.) Vysoká Škola Zeměděl. Fakul. Hospodář. Sborn. Sign C 40, 87 p. Ref. 1948. 105.92 B834
- English summary.
- 16714 KVIČALA, B. Studies on the relationship between some aphids and two plant viruses. Cambridge U. Abs. Diss. 1945/1946: 11-12. 1948. 241.8 C14
- Black ring spot of cabbage and mosaic of sugar beet.
- 16715 LOCKE, S. B. Studies on the chemotherapy of potato virus diseases. (Abs.) Phytopathology 38: 916. Nov. 1948. 464.8 P56
- 16716 MACLEOD, D. J. The mosaic types of viruses affecting potatoes in Canada and Great Britain. Cambridge U. Abs. Diss. 1944/1945: 16-17. 1948. 241.8 C14
- 16717 MILBRATH, J. A., and ENGLISH, W. H. A late-breaking virus disease of potatoes. (Abs.) Phytopathology 38: 917. Nov. 1948. 464.8 P56
- 16718 POST, K. Chrysanthemum stunt and stock selection. N. Y. State Flower Growers. B. 39: 7-8. Nov. 1948. 80 N486
- 16719 RICHARDS, B. L., WADLEY, B. N., and COCHRAN, G. W. Little cherry, a virus disease of sweet and sour cherries in Utah. Farm & Home Sci. [Utah Sta.] 9(4): 10-12. Dec. 1948. 100 UtlF
- 16720 RIOLLANO, A., ADSUAR, J., and RODRÍGUEZ, A. Estación experimental agrícola desarrolla variedad de pimientos resistentes al mosaico. Puerto Rico. Agr. Col. Ext. Carta Mens. 5(9): 3. Dec. 1948. 275.29 P96Ca
- 16721 ROSS, A. F. Local lesions with potato virus Y. Phytopathology 38: 930-932. Nov. 1948. 464.8 P56
- 16722 ROUSSEL, L. Les virus. Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc. 18: 232-235. July/Aug. 1948. 80 F9482
- 16723 RUMLEY, G. E., and THOMAS, W. D., JR. Studies of the virus complex of carnation. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 40-41. Sept. 1948. 500 C717
- 16724 SAHAI VASUDEVA, R. Building up of disease-free stocks of seed potatoes. Indian Farming 8: 282-284. June 1947. 22 In283
- 16725 SHEWELL-COOPER, W. E. Rubbery wood and chat fruits. Nature Lover 5: 497-498. Nov. 1948. 410 N218
- Virus diseases.
- 16726 SKILES, R. I., and THOMAS, W. D., JR. Red node and shiny pod viroses of field beans. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 44. Sept. 1948. 500 C717
- 16727 TRI-STATE PACKERS' ASSOCIATION, INC. New mosaic resistant snap beans. (Sum.) Snap Bean B. 8, 2 p. June 8, 1948. 280.39 T73S
- 16728 WARDLAW, C. W. Infectious chlorosis of bananas in the Cameroons. Nature [London] 162: 894. Dec. 4, 1948. 472 N21
- 16729 WENZL, H. Raps-krauselkrankheit in Österreich. Pflanzenschutzberichte 2: 183-185. Oct. 1948. 464.9 P48
- English summary.
- 16730 WILHELM, S., THOMAS, H. E., and JENSEN, D. D. A dwarfing virus disease of bramble fruits. (Abs.) Phytopathology 38: 919. Nov. 1948. 464.8 P56
- 16731 WOODS, M. W., and ECK, R. V. Nuclear inclusions produced by a strain of tobacco mosaic virus. Phytopathology 38: 852-856. Ref. Nov. 1948. 464.8 P56
- 16732 ZELLER, S. M., and MILBRATH, J. A. Western X-disease of Montmorency cherry and its relation to buckskin of sweet cherry. (Abs.) Phytopathology 38: 920. Nov. 1948. 464.8 P56
- Diseases Caused by Nematodes**
- 16733 BAINES, R. C., CLARKE, O. F., and BITTERS, W. P. Susceptibility of some citrus species and other plants to the citrus-root nematode, *Tylenchulus semipenetrans*. (Abs.) Phytopathology 38: 912. Nov. 1948. 464.8 P56
- 16734 CHITWOOD, B. G., and FELDMESSER, J. Golden nematode [*Heterodera rostochiensis*] population studies. Helminth. Soc. Wash. Proc. 15: 43-55. Ref. July 1948. 436.9 H36
- On potatoes.
- 16735 ELLIS, D. E., and CLAYTON, C. N. Soil treatments with new insecticides ineffective in control of root-knot. Plant Dis. Rptr. 32: 476-477. Nov. 15, 1948. 1.9 P69P
- 16736 MILLER, P. R. Plant tests affected by soil parasites. Agr. Chem. 3(12): 41, 43, 75. Dec. 1948. 381 Ag8
- Nematodes.



- 16737 THORNE, G. Nematodes as a disturbance factor in greenhouse, plot and field experiments. *Plant Dis. Rptr.* 32: 473-475. Nov. 15, 1948. 1.9 P69P
- 16738 TINGUY, P. DE. La lutte contre les nematodes, les anguillules. *Rev. Hort. de l'Algérie* 52(7): 37-39. Aug./Sept. 1948. 87 R32

## ECOLOGY

- 16739 BARBOUR, C. A. A New Hampshire woodland. *Green Thumb* 5(12): 6-7. Dec. 1948. 80 G82
- Ecology.
- 16740 COURTEMANCHE, A. Observations sur le Populeum tremuloides dans la région des Grands Lacs. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 85. 1948. 517 M76
- 16741 CSÜRÖS, S. Contributions à la connaissance de la végétation des régions salines des environs de Cluj (In Romanian.) *Cluj. U. Jard. et Mus. Bot. B.* 27: 80-85. Ref. 1947. 451 C62
- French summary.
- 16742 DANSEREAU, P., and KUHLMANN, E. Notes bioclimatiques sur la plaine du Montréal. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 86-87. 1948. 517 M76
- 16743 DANSEREAU, P., and SEGADAS-VIANNA, F. Les principales associations et la succession dans les tourbières de la province de Québec. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 83-84. 1948. 517 M76
- 16744 DANSEREAU, P. Les principaux stades de la succession dans la vallée du Paraíba (Brésil). (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 82-83. 1948. 517 M76
- 16745 DANSEREAU, P. La végétation du plateau des Helderberges (N.Y.) et le climax régional. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 81-82. 1948. 517 M76
- 16746 EGLER, F. E. The dispersal and establishment of red mangrove, *Rhizophora* in Florida. *Caribbean Forester* 9: 299-310. Oct. 1948. 1.9622 T2C23
- Spanish translation p. 311-320.
- 16747 FAUREL, L. Note sur la cédraie de l'Atlas de Blida (Algérie): ses sols et ses associations végétales. *Conf. Internat. de Pédol. Méditer. Compt. Rend.* 1947: 474-477. 1948. 56.09 C766
- 16748 FOSBERG, F. R. Salinity and atoll vegetation. (Abs.) *Hawaiian Acad. Sci. Proc.* (1947/48) 23: 8. 1948. 500 H31A
- 16749 GILLE, A. Ecologie des principaux types de pâturages des environs de Granby (Shefford). (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 83. 1948. 517 M76
- 16750 HAMEL, A. Eléments d'une classification écologique des mauvaises herbes du Québec. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 84. 1948. 517 M76
- 16751 MCGREGOR, R. L. First year invasion of plants on an exposed lake bed. *Kans. Acad. Sci. Trans.* 51: 324-327. Sept. 1948. 500 K13T
- 16752 MATHON, C. La Buxaie-Oxycèdraie de Bidon (Basse-Ardèche). *Soc. Bot. de France. B.* 95: 146-148. Mar./Apr. 1948. 451 F84B
- 16753 OBERDORFER, E. Gliederung und umgrenzung der Mittelmeervegetation auf der Balkanhalbinsel. *Zürich. Geobot. Forschungsinst. Rübel. Ber.* 1947: 84-111. Ref. 1948. 451 Z83Be
- 16754 PENFOUND, W. T. An analysis of an elm-ash floodplain community near Norman, Oklahoma. *Okla. Acad. Sci. Proc.* 28: 59-60. 1948. 500 Ok42
- 16755 PHAFF, H. J. Ecology and distribution of yeasts. (Abs.) *Brewers Digest* 23(12): 53. Dec. 1948. 390.8 B75
- 16756 SCHNELL, R. Essai de synthèse biogéographique sur la région forestière d'Afrique occidentale. *Notes Africaines* 40: 29-33. Oct. 1948. 475 N84
- 16757 SZE, W. The relation of typhoons to plant distribution in Taiwan. *Taiwan. Forest Res. Inst. B.* 6, 14 p. June 1947. 99.9 F7652
- 16758 TROLL, C. Der asymmetrische aufbau der vegetationszonen und vegetationsstufen auf der Nord- und Südhalbkugel. *Zürich. Geobot. Forschungsinst. Rübel. Ber.* 1947: 46-83. Ref. 1948. 451 Z83Be

## MORPHOLOGY, ANATOMY, AND CYTOLOGY

- 16759 AGGELEN-BOT, G. M. VAN. The course of the latex vessels in the leaf base of *Hevea brasiliensis*. (In Dutch.) *Arch. v. de Rubbercult.* 26: 115-120. July 1948. 78.8 Ar2
- English summary.
- 16760 BARRETT, J. T. Some conditions contributing to the development and germination of oospores in the genus *Phytophthora*. (Abs.) *Phytopathology* 38: 913. Nov. 1948. 464.8 P56
- 16761 BERTRAND, P. Les végétaux vasculaires, introduction à l'étude de l'anatomie comparée. Paris, Masson, 1947. 184 p. 463.41 B46
- 16762 BURCK, O. Verdunstungsschutz bei heimischen gräsern. *Natur u. Volk* 78: 95-103. Sept. 1, 1948. 509 F856
- 16763 CAMPO-DUPLAN, M. VAN. Considérations biométriques sur les grains de pollen des Abiétinées. *Soc. d'Hist. Nat. B.* 82: 193-200. Ref. Apr. 30, 1948. 505 T64
- 16764 CAMPO-DUPLAN, M. VAN. Étude de quelques grains de pollen sans ballonnets des Abiétinées. *Soc. d'Hist. Nat. B.* 82: 159-166. Oct. 30, 1947. 505 T64
- 16765 CAMPO-DUPLAN, M. VAN. Notes sur la disparition des ballonnets chez les grains de pollen d'Abiétinées. *Soc. d'Hist. Nat. B.* 82: 187-192. Apr. 30, 1948. 505 T64
- 16766 CHEADLE, V. I., and UHL, N. W. The relation of metaphloem to the types of vascular bundles in the Monocotyledoneae. *Amer. J. Bot.* 35: 578-583. Ref. Nov. 1948. 450 Am36
- 16767 CRETE, P. Recherches embryologiques chez les Scrofulariacées. Développement de l'albumen et de l'embryon chez le *Chaenostoma foetidum* (Jacq.) Benth. *Soc. Bot. de France. B.* 95: 142-146. Ref. Mar./Apr. 1948. 451 F84B
- 16768 CUZIN, J., FARDY, A., and SCHWARTZ, D. L'énation: ontogenèse comparée d'un tératome foliaire héréditaire chez *Nicotiana tabacum* L. *Rev. Sci. [Paris]* 86: 141-166. Ref. Feb. 1, 1948. 473 R32
- 16769 FAGERLIND, F. Beiträge zur kenntnis der gynaeciummorphologie und phylogenie der Santalales-familien. *Svensk Bot. Tidskr.* 42: 195-229. Ref. 1948. 450 Sv2
- 16770 FERRÉ, Y. DE. Cotylédons et évolution chez les Taxodinéés. *Soc. d'Hist. Nat. B.* 82: 214-224. Apr. 30, 1948. 505 T64
- 16771 FLORSCHÜTZ, P. A. Thorns or spines. (In Dutch.) *Succulenta* 1948(5): 70-73. Ref. Sept./Oct. 1948. 450 Su12
- 16772 FRANKENBERG, G. V. Modifikations-mechanismen. *Natur u. Volk* 78: 42-50. June 1, 1948. 509 F856
- Plants and insects.
- 16773 FREYTAG, G. F., and REED, J. F. Specific differences in the resin sac pattern in the needles of Engelmann spruce and Colorado Blue spruce. (Abs.) *Colo.-Wyo. Acad. Sci. J.* 3(6): 39-40. Sept. 1948. 500 C717
- 16774 GAUTHIER, R. La valeur morphologique de l'ovaire infère des Begonia. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 67-68. 1948. 517 M76
- 16775 GOES, O. C. Chromosomes in Aleurites molluccana Willd. (In Portuguese.) *Rio de Janeiro. Jard. Bot. Arg.* 7: 5-10. Dec. 1947. 451 R47
- English summary.
- 16776 GOSSELIN, L. A. Considérations sur les caractères structuraux des noyaux des cellules végétales et animales. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 74. 1948. 517 M76
- 16777 HAAN, I. DE, and AGGELEN-BOT, G. M. VAN. The formation of rubber in *Hevea brasiliensis*. (In Dutch.) *Arch. v. de Rubbercult.* 26: 121-180. Ref. July 1948. 78.8 Ar2
- English summary.
- 16778 HAMEL, J. Notes préliminaires à une étude cytologique des Saxifragacées. I, Les chromosomes de *Peltiphyllum peltatum* (Torr.) Engler et de *Boykinia telimoides* (Maxim.) Engler. *Paris. Mus. Natl. d'Hist. Nat. B.* (ser. 2) 20: 198-200. Feb. 1948. 410.9 P213
- 16779 HANSEN, H. N., and SNYDER, W. C. Compatibility and sex in *Hypomyces solani* f. cucurbitae. (Abs.) *Phytopathology* 38: 915. Nov. 1948. 464.8 P56



- 16780 HULBARY, R. L. Three-dimensional cell shape in the tuberous roots of *Asparagus* and in the leaf of *Rhoeo*. *Amer. J. Bot.* 35: 558-566. Ref. Nov. 1948. 450 Am36
- 16781 JÄHNEL, G. Endomitotische polyploidie in sukkulenten laubblättern. *Chromosoma* 3(1/2): 48-51. Ref. 1947. 442.8 C46
- 16782 LACKEY, C. F. Attraction of the vascular bundles for dodder haustoria in healthy and curly-top infected beet petioles. (Abs.) *Phytopathology* 38: 916. Nov. 1948. 464.8 P56
- 16783 LARUE, C. D. Regeneration in the megagametophyte of *Zamia floridana*. *Torrey Bot. Club. B.* 75: 597-603. Dec. 1948. 451 T63B
- 16784 LAUBERT. Pflanzenmissbildungen und ihre Ursachen. *Land, Wald u. Garten* 3: 66. Mar. 1948. 18 L22
- 16785 LI, H. W., and others. Cytological studies of sugarcane and its relatives. IV. Studies of meiosis in some varieties and hybrids. *J. Sugarcane Res.* 2(8): 1-22. Aug. 1948. 65.8 J822
- C. L. Lee, C. A. Hsia, and T. C. Leung joint authors. English summary.
- 16786 MANNING, W. E. The morphology of the flowers of the Juglandaceae. III. The staminate flowers. *Amer. J. Bot.* 35: 606-621. Ref. Nov. 1948. 450 Am36
- 16787 MATTHEWS, B. Some bulbous curiosities: flowers of unusual form or coloration. *New Zeal. Gard.* 5: 36-38. Sept. 1, 1948. 80 N4822
- 16788 MORLEY, T. On leaf arrangement in *Metasequoia glyptostroboides*. *Natl. Acad. Sci. Proc.* 34: 574-578. Dec. 1948. 500 N21P
- 16789 PELLISSIER, F., and LACROTTE, L. Le système nodal et la différenciation de l'appareil laticifère dans la plantule de *Chelidonium majus* L. *Paris. Acad. des Sci. Compt. Rend.* 227: 908-910. Nov. 3, 1948. 505 P21
- 16790 PRAT, H. Remarques sur les manifestations des gradients histologiques chez les végétaux. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 68. 1948. 517 M76
- 16791 RATTENBURY, J. A. Chromosome number publication. *Madroño* 9: 257-258. Oct. 1948. 450 M26
- 16792 REEVE, R. M. Late embryogeny and histogenesis in *Pisum*. *Amer. J. Bot.* 35: 591-602. Ref. Nov. 1948. 450 Am36
- 16793 RILEY, H. P. Chromosome studies in a hybrid between *Gasteria* and *Aloe*. *Amer. J. Bot.* 35: 645-650. Ref. Nov. 1948. 450 Am36
- 16794 SADOVSKY, O. Ueber stachelfarben bei kakteen. *Sukkulantenkunde* 1: 28-31. June 1947. 450 Su42
- 16795 SANTA MARÍA P., R. Ontogenia y morfología del maíz. *Chapingo* 24: 72-74, 104. Aug. 1948. 102 C36
- 16796 SINGH, H. Floral abnormalities in the brinjal, *Solanum melongena* L. *Indian Bot. Soc. J.* 27: 21-25. Feb. 1948. 450 J821
- 16797 SMITH, G. M. Sexuality in *Chlamydomonas*. (Abs.) *Science* 108: 680-681. Dec. 17, 1948. 470 Sci2
- 16798 STOKEY, A. G. The gametophyte of *Actinopteris australis* (L. fil.) Link. *Indian Bot. Soc. J.* 27: 40-49. Feb. 1948. 450 J821
- 16799 SUBRAMANYAM, K., and GOVINDU, H. C. The development of the female gametophyte in *Oenothera odorata* Jacq. *Indian Bot. Soc. J.* 27: 25-30. Ref. Feb. 1948. 450 J821
- 16800 SUBRAMANYAM, K. An embryological study of *Melastoma malabathricum* L. *Indian Bot. Soc. J.* 27: 11-19. Ref. Feb. 1948. 450 J821
- 16801 SWAMY, B. G. L. A contribution to the embryology of the Marcegraviaceae. *Amer. J. Bot.* 35: 628-633. Ref. Nov. 1948. 450 Am36
- 16802 TANG, S. H. The embryogeny of *Torreya grandis*. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 269-275. Ref. Dec. 1948, pub. Sept. 22, 1948. 451 Ac1
- 16803 TSCHERMAK-WOESS, E. Über chromosomale plastizität bei wildformen von *Allium carinatum* und anderen *Allium*-arten aus den Ostalpen. *Chromosoma* 3(1/2): 66-87. Ref. 1947. 442.8 C46
- 16804 VENNING, F. D. The ontogeny of the laticiferous canals in the Anacardiaceae. *Amer. J. Bot.* 35: 637-644. Ref. Nov. 1948. 450 Am36
- 16805 VERONA, O., and FLORENZANO, G. Some morphological aspects of *Candida pulcherrima* (Lindner) Windisch. (In Italian.) *Pisa. U. Facol. di Agr. Ann.* (n. s.) 8: 103-107. Nov. 10, 1948. 105.4 P672

- 16806 YANG, L. C. The study of the embryologic development and fertilization of *Oryza sativa* as compared with previous investigations. (In Chinese.) *Agr. Assoc. China. J.* 185: 1-15. Ref. Nov. 1947. 22.5 Ag862
- English summary.

- 16807 YU, C. H. The wood structure of *Metasequoia disticha*. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 227-230. Ref. Dec. 1948, pub. Sept. 22, 1948. 451 Ac1

## GENETICS

- 16808 AFANAS'EVA, A. S. Experimental production of wheat autopolyploidy. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Adak. im. K. A. Timirfazeva. Dok.* 7: 50-52. 1948. 20 M857
- 16809 BREVIGLIERI, N. Genetics and viticulture at the Turin national congress. (In Italian.) *Terra [Firenze]* 59(44): 1-2. Oct. 31, 1948. 16 T274
- 16810 HEINIG, K., and RANDOLPH, L. F. Chromosome behavior in an Iris hybrid of diploid tall bearded and dwarf bearded parentage. *Amer. Iris Soc. B.* 111: 77-81. Oct. 1948. 81 Am39
- 16811 LI, H. W., HSIA, C. A., and LEE, C. L. An inquiry into the nature of speltoid and compactoid types of wheat as a function of genic dosage. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 243-264. Ref. Dec. 1948, pub. Sept. 22, 1948. 451 Ac1
- 16812 LINDEGREN, C. C., and LINDEGREN, G. Genetics and hybridization. (Abs.) *Brewers Digest* 23(12): 53. Dec. 1948. 390.8 B75
- Yeasts.
- 16813 PREZENT, I., and SHASHURIN, D. The youth is told about Michurin. (In Russian.) *Molod. Kolkhoz.* 15(8): 12. Aug. 1948. 110 M73
- His contribution to plant breeding.
- 16814 ROBERTS, C. Inheritance of enzymatic characters in yeasts. (Abs.) *Brewers Digest* 23(12): 53-54. Dec. 1948. 390.8 B75
- 16815 SALA ROCA, E. Labor científica de un genetista. *Cult. Mod.* 31: 363-365. Oct. 1948. 15 C89
- 16816 SMITH, P. G., and GARDNER, M. W. Inheritance of spotted-wilt resistance in tomato. (Abs.) *Phytopathology* 38: 918. Nov. 1948. 464.8 P56
- 16817 TIMOFEEV, N. N. Importance in selection of variability of plant characteristics in ontogenesis. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 7: 97-103. 1948. 20 M857
- 16818 VALLE, C. G. DEL. Informe de la División de Fitogenética de la Estación Experimental de Santiago de las Vegas. *Agrotecnia* 2: 592-602. Aug./Sept. 1948. 8 Ag825
- 16819 ZHEBRAK, A. R. Experimental production of hard and soft wheat amphidiploidy. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 7: 48-50. 1948. 20 M857

## PHYSIOLOGY

- 16820 ÅBERG, E. Soilless culture. (In Swedish.) *Växt-Närings-Nytt* 4(4): 16. 1948. 57.8 V47
- 16821 ALABOUVETTE. Données biologiques et culturales relatives aux oléagineux de la partie sud de la France. *France. Min. de l'Agr. B. Tech. 8'Inform.* 28/29: 181-188. Apr./May 1948. 14 F844B
- 16822 ALBRECHT, W. A., KLEMME, A. W., and MIERKE, W. Potassium helps put more nitrogen into sweetclover. *Amer. Soc. Agron. J.* 40: 1106-1109. Dec. 1948. 4 Am34P
- 16823 ALLEN, C. E. Effect of temperature on the impermeable seed coats of beans. (Abs.) *Colo.-Wyo. Acad. Sci. J.* 3(6): 45-46. Sept. 1948. 500 C717
- 16824 ALPEN, E., DUFRENOY, J., and KUMLER, W. D. Effects of amino-acridine derivatives on tissues of potato (*Solanum tuberosum*). (Abs.) *Phytopathology* 38: 912. Nov. 1948. 464.8 P56
- 16825 ANDREU, S. R. Aplicaciones de la radiestesia en agricultura. *Cult. Mod.* 31: 372. Oct. 1948. 15 C89
- 16826 ANSLAUX, J. R. Recherches sur une fonction écologique; la pression osmotique chez les végétaux. *Brussels, Palais des Académies, 1948. 54 p.* (Académie Royale de Belgique, Classe des Sciences. Mémoires. Collection in 8. [2. sér.] t. 21. fasc. 3) 463.32 An8



- 16827 ATABEKOVA, A. I. Color peculiarities of lupine and their significance. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok.* 7: 35-45. 1948. 20 M857
- 16828 BEAUCHAMP, C. E. Influencia de las lluvias sobre la riqueza de la caña de azúcar. *Inst. Cubano de Suelos y Abonos. Inform. Téc. B.* 52: 1000-1021. Sept. 1948. 65.9 H29
- 16829 BHANDALL, B. S. Methods and factors that enable a plant to withstand transplanting. *Indian J. Agr. Sci.* 17: 86-93. Ref. Apr. 1947. 22 Ag831
- 16830 BLIN, H. Le bletissement des poires. *Acclimatation* 75: 204. Sept. 25, 1948. 14 Ac2
- 16831 BLONDEAU, R., and CRANE, J. C. Early maturation of Calimyrna fig fruits by means of synthetic hormone sprays. *Science* 108: 719-720. Dec. 24, 1948. 470 Sci2
- 16832 BOLCATO, V. Influence on Aspergilli of some organic substances in the atmosphere. (In Italian.) *Enzymologia* 12: 356-361. June 1948. 390.08 En9  
English summary.
- 16833 BONNER, J. T. A study of the temperature and humidity requirements of *Aspergillus niger*. *Mycologia* 40: 728-738. Ref. Nov./Dec. 1948. 450 M99
- 16834 BROWN, A. H., FAGER, E. W., and GAFFRON, H. Assimilation of tracer carbon in the alga *Scenedesmus*. *Arch. Biochem.* 19: 407-428. Dec. 1948. 381 Ar2
- 16835 BURROUGHS, L. F., and STANTON, W. R. Factors affecting juice composition and cider quality of fruit from bush trees. I. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 197-208. 84 B77
- 16836 BUSTARRET, J., JONNARD, P., and HUBERT, L. D'. Données biologiques et culturales relatives aux oléagineux de la moitié Nord de la France. *France. Min. de l'Agr. B. Tech. d'Inform.* 28/29: 167-179. Apr./May 1948. 14 F844B
- 16837 CARLO, P., DUFRENOY, J., and SAH, P. Effects of various chemicals as growth-regulators. (Abs.) *Phytopathology* 38: 913-914. Nov. 1948. 464.8 P56
- 16838 CHILEAN NITRATE EDUCATIONAL BUR., INC. Bibliography of the literature on sodium and iodine in relation to plant and animal nutrition. New York, 1948. v. 1, 123 p. 241 C432
- 16839 COMAR, C. L. Radioisotopes in nutritional trace element studies. III. *Nucleonics* 3(5): 34-48. Ref. Nov. 1948. 334.8 N88  
Copper, molybdenum and zinc in plant and animal nutrition.
- 16840 COMSTOCK, V. E., and LAW, A. G. The effect of clipping on the yield, botanical composition, and protein content of alfalfa-grass mixtures. *Amer. Soc. Agron. J.* 40: 1074-1083. Ref. Dec. 1948. 4 Am34P
- 16841 CONTRERAS C., M. Relación vital entre hojas y raíces del cacao. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 39(179): 16, 18. July/Aug. 1948. 8 R323
- 16842 COSTER, R. DE. How the growth substances work? General survey of growth regulating substances. (In Flemish.) *Cult. en Handel* 14: 713-715. Nov. 1948. 80 C892
- 16843 DELPLACE, E. L'action des substances de croissance sur les arbres fruitiers. *Acclimatation* 75: 216. Oct. 9, 1948. 14 Ac2
- 16844 DILLEWIJN, C. VAN. Maturity testing. *Türkiye Şeker Fabrikalari. B. Sugar Cane Expert* 3, 68 p. İstanbul, 1948. 65.9 T84
- 16845 DONÁ DELLE ROSE, A. Productivity of dehydrated wheat seed. (In Italian.) *Humus* 4(9): 21-22. Sept. 1948. 16 H88
- 16846 DUFRENOY, J., and PRATT, R. Responses of cuttings, seeds, and flowers to dithiobiuret. *Science* 108: 715-716. Dec. 24, 1948. 470 Sci2
- 16847 DUNNE, T. C. Copper deficiency of cereal crops in Western Australia. *West. Austral. Dept. Agr. Leaflet* 927, 6 p. 1948. 23 W52B
- 16848 DUNNE, T. C., and THROSSELL, G. L. Responses of wheat to copper and zinc at Dongara. *West. Austral. Dept. Agr. Leaflet* 921, 4 p. 1948. 23 W52B
- 16849 FAVILLI, R. Research on the abortion of olive seed. (In Italian.) *Pisa. U. Facol. di Agr. Ann. (n. s.)* 8: 118-125. Nov. 10, 1948. 105.4 P672
- 16850 FELBER, I. M. The formation of protuberances on bean leaves in response to 2,4-D treatments. *Amer. J. Bot.* 35: 555-558. Ref. Nov. 1948. 450 Am36
- 16851 FELBER, I. M. Growth potentialities of vegetative buds on apple trees. *J. Agr. Res.* 77: 239-252. Nov. 1/15, 1948. 1 Ag84J
- 16852 FERRI, M. G., and JOLY, A. B. Parthenocarp induced with  $\beta$ -naphthoxy-acetic acid. (In Portuguese.) *São Paulo. U. Facul. de Fil., Ciên. e Let. Bot.* 6, 27 p. Ref. 1948. 451 Sa63  
English summary.
- 16853 FESTER, G. A., SUAREZ, A. F., and GARGALLO, M. A. Los colorantes de la raíz de *Relbunium atherodes* y *R. hypocarpium*. *Argentina. U. Nac. del Litoral. Facul. de Quím. Indus. y Agr. Rev.* 16/17: 74-79. 1946/47. 385 Sa5
- 16854 GAROFALO, F. Influence of the humidity of the atmosphere on the germination and the growth of the uredospores of *Uromyces fabae* on the host. (In Italian.) *Riv. di Biol.* 40: 44-47. 1948. 442.8 R52
- 16855 GAYET, J. Étude du métabolisme phosphoré chez *Sterigmatocystis nigra*. I. L'évolution du phosphore au cours de la croissance en milieu équilibré. *Soc. de Chim. Biol. B.* 30: 488-496. Ref. July/Aug. 1948. 383 Sol
- 16856 GEORLETTE, R. La production de tomates sans graines. *Ann. de Gembloux* 54: 219-223. Ref. Third Quart. 1948. 13 G28
- 16857 GHIDINI, G. M. Effect of gammexane on the germination of alfalfa. (In Italian.) *Riv. Fitosanit.* 2: 22-23. Feb. 1948. 464.8 R522
- 16858 HALAIS, P. Foliar diagnosis: a comparative index of the mode of nutrition of sugarcane. *Rev. Agr. de l'île Maurice* 27: 122-125. Ref. May/June 1948. 24 M44  
Revision of article in March 1948 issue of Sugar.
- 16859 HALAIS, P. Microdosages rapides de N, P et K par colorimétrie photo-électrique utilisés à Maurice pour le diagnostic foliaire de la canne à sucre. *Rev. Agr. de l'île Maurice* 27: 100-112. May/June 1948. 24 M44
- 16860 HALLEMANS, A. Some deficiency diseases of our fruit plants. (In Flemish.) *Cult. en Handel* 14: 697. Nov. 1948. 80 C892
- 16861 HANSEL, H. Die notwendigkeit niederer temperaturen für die generative entwicklung höherer pflanzen. *Wette u Leben* 1: 33-35. May 1948. 340.8 W53
- 16862 HARDY, E. Water "divining" by study of plant life; new botanical theory that will help to prevent erosion and aid irrigation. *Crown Colonist* 18: 684. Dec. 1948. 280.8 C88
- 16863 HÄRTEL, O. Über die pflanzliche kutikulartranspiration und ihre beziehungen zur membranquellbarkeit. *Akad. der Wiss. Wien, Math.-Nat. Kl. Sitzber.* 156: 57-86. Ref. 1947. 510 V67
- 16864 HERMANSON, J. L., THORSON, J., and SHEETS, J. Laboratory synthesis of 2, 4 dichlorophenoxyacetic acid from urea. *Kans. Acad. Sci. Trans.* 51: 333-334. Sept. 1948. 500 K13T
- 16865 HEWITT, E. J. The resolution of the factors in soil acidity: the relative effects of aluminium and manganese toxicities on farm and market garden crops. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 82-96. Ref. 84 B77
- 16866 HUANG, T. C. Chemical stimulation in pollen germination and pollen tube growth. *Acad. Sinica. Inst. Bot. Bot. B.* 2: 282-290. Ref. Dec. 1948, pub. Sept. 22, 1948. 451 Ac1
- 16867 ILJIN, W. S. Kalziöse (kalkchlorose) und stoffwechsel beim apfel- und kirschbaum. *Akad. der Wiss. Wien, Math.-Nat. Kl. Sitzber.* 156: 87-152. Ref. 1947. 510 V67
- 16868 JANSSON, S. L. Plant water consumption and the nutritive supply. (In Swedish.) *Växt-Närings-Nytt* 4(4): 10-12. 1948. 57.8 V47
- 16869 JOSLYN, M. A. Nutrient requirements of yeast. (Abs.) *Brewers Digest* 23(12): 54. Dec. 1948. 390.8 B75
- 16870 KOK, B. A critical consideration of the quantum yield of *Chlorella*-photosynthesis. *Enzymologia* 13: 1-56. Ref. Aug. 1948. 390.08 En9
- 16871 LAL, K. N., and PATHAK, H. S. Studies in crop physiology: effects of fertiliser deficiency and sufficiency upon growth and development of sugarcane. *Indian Bot. Soc. J.* 27: 30-40. Feb. 1948. 450 J821
- 16872 LAMBERG, P. H. Bedeutung der tageslänge für das pflanzenwachstum. *Thür. Gartenbau* 1948: 190. Nov. 15, 1948. 80 T42



- 16873 LA PORTE, J. Floración precoz en pomelos. Cien. e Invest. 4: 215-216. May 1948. 475 C482
- 16874 LEE, S., and LIN, K. S. Studies of the photo-periodic effect on sugarcane seedlings. J. Sugarcane Res. 2(9): 1-19. (In Chinese.) Sept. 1948. 65.8 J822 English summary.
- 16875 LOO, T. L., and TANG, Y. W. The effect of indole-3-acetic acid on root formation and bud development. Acad. Sinica. Inst. Bot. Bot. B. 2: 231-235. Ref. Dec. 1948, pub. Sept. 22, 1948. 451 Acl
- 16876 LYON, A. V. Formation of fruit buds. Austral. Dried Fruits News 24(4): 13. Aug. 1948. 286.83 Au72
- 16877 MCCLINTOCK, J. A. A study of uncongeniality between peaches as scions and the Marianna plum as a stock. J. Agr. Res. 77: 253-260. Ref. Nov. 1/15, 1948. 1 Ag84J
- 16878 MACVICAR, R., and BURRIS, R. H. Translocation studies in tomato using ammonium sulfate labeled with N<sup>15</sup>. Amer. J. Bot. 35: 567-570. Ref. Nov. 1948. 450 Am36
- 16879 MAKSIMOV, N. A. Effect of water deficiency on the physiological functions of plants and on yields. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 10-13. 1948. 20 M857
- 16880 MARIMPIETRI, L., and TOMBESI, L. On water nutrition of alfalfa. II. Water availability and nutritive value of forage. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 437-441. 1948. 16 An76 English summary.
- 16881 MEGALOV, V. A. Causes of mass withering of eggplants and peppers. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 140-144. 1948. 20 M857
- Temperature and soil moisture conditions.
- 16882 MENTZER, C. Relations entre la structure chimique et l'activité phytohormonale. I. Application du principe de vinylogie à l'étude des substances de croissance. Soc. de Chim. Biol. B. 30: 384-396. Ref. July/Aug. 1948. 383 Sol
- 16883 MITCHELL, A. E., TOENJES, W., and HAMNER, C. L. The use of dusts and concentrate sprays to prevent pre-harvest drop of McIntosh apples. Mich. Agr. Expt. Sta. Q. B. 31: 160-164. Nov. 1948. 100 M58S
- 16884 MOL, W. E. DE. Roentgen rays and flower bulbs. Holland Shipping & Trading 3(16): 18-19. Nov. 8, 1948. 286.8 H713
- 16885 MONTFORT, C. Sonnen- und schattenpflanzen als biochemische und physiologische reaktionstypen. Natur u. Volk 78: 86-95. Ref. Sept. 1, 1948. 509 F856
- 16886 MOREL, G. Les substances de croissance chez les végétaux. Ann. Biol. [Paris] (Ser. 3) 24: 145-189. Ref. Apr./May 1948. 442.8 An7
- 16887 MORGAN, N. D. Starved plants show their hunger. Better Crops Plant Food 32(8): 6-10, 44-46. Oct. 1948. 6 B46
- 16888 MORTON, F. Pflanzen und höhlenklima. Wetter U. Leben 1:105-108 July 1948. 340.8 W53
- 16889 MOZHAeva, L. V. Mechanism of water admission into plant cell. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 61-64. 1948. 20 M857
- 16890 NANCE, J. F. The role of oxygen in nitrate assimilation by wheat roots. Amer. J. Bot. 35: 602-606. Ref. Nov. 1948. 450 Am36
- 16891 NEAL, A. L., and others. Influence of oil-wax emulsion sprays on size of Montmorency cherries. J. Agr. Res. 77: 261-269. Nov. 1/15, 1948. 1 Ag84J
- C. G. Barr, V. R. Gardner, E. J. Rasmussen and E. J. Miller, joint authors.
- 16892 NEWTON, W. The influence of fungicidal dusts upon the rooting of cypress and tamarix cuttings. (Abs.) Phytopathology 38: 917. Nov. 1948. 464.8 P56
- Fermate.
- 16893 PAYEUR, J. B. Les effets des fongicides et des insecticides sur le feuillage du pommier. Rev. d'Oka 12: 180-189. Ref. Sept./Oct. 1948. 7 Ok1
- 16894 PEARSE, H. L. The control of pre-harvest drop of apples. Further results with hormone sprays. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 61, 3 p. Aug. 1947. 87 St3
- 16895 PEARSE, H. L. Marginal scorching and chlorosis of the leaves of berry fruits. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 62, 4 p. Sept. 1947. 87 St3
- 16896 PEROTTI, R. Injuries to vegetation from toxic gases according to new data and evaluation criteria. (In Italian.) Pisa. U. Facol. di Agr. Ann. (n. s.): 35-50. Nov. 10, 1948. 105.4 P672
- 16897 PERRUCHE, L. Les cultures sans sol ou hydroponics. Nature [Paris] 3163: 332-334. Nov. 1948. 473 N21
- 16898 PESMAN, W. Down with the sap! Green Thumb 5(12): 8-11. Dec. 1948. 80 G82
- 16899 PIACCO, R. Reactions of rice to the action of the phytohormone Rootone during germination. (In Italian.) Riscicoltura 36: 175-176. Aug. 1948. 59.8 G43
- 16900 PRATT, R. Studies on Chlorella vulgaris. XI. Relation between surface tension and accumulation of chlorellin. Amer. J. Bot. 35: 634-637. Ref. Nov. 1948. 450 Am36
- 16901 RANDHAWA, G. S., and THOMPSON, H. C. Growth and fruiting of tomato plants as influenced by growth-regulating substances applied to the soil. Science 108: 718-719. Dec. 24, 1948. 470 Sci2
- 16902 RAUTH, W. Über wuchsstoffe. Gartenjahr 3: 165-167. Nov. 1948. 80 G1932
- 16903 REBIFFÉ, J. Le mécanisme hormonal. Defense Agr. de la Beauce et du Perche 45: 321. Dec. 1, 1948. 14 D36
- 16904 REINDERS-GOUWENTAK, C. A., and BING, F. Action de l'acide a-naphtylacétique contre la chute des fleurs et des fruits de la tomate et son influence sur la couche séparatrice des pédicelles. Nederland. Akad. van Wetensch. Proc. 51: 1183-1194. Ref. 1948. 503 Am8P English summary.
- 16905 RHODES, A. Studies on translocation in plants. Cambridge U. Abs. Diss. 1945/1946: 14-15. 1948. 241.8 C14
- 16906 ROBINSON, A. D., LYND, L. E., and MILES, B. J. The distribution of thiamine and riboflavin in wheat, oats, and barley at successive stages of plant growth. Canad. J. Res. Sect. B. 26: 711-717. Sept. 1948. 470 C16B
- 16907 ROSELLA, E. Au Maroc dans les céréales les phyto-hormones donnent des résultats indiscutables. Agriculture [Paris] 12: 317-319. Oct. 1948. 14 Ag823
- 16908 ROSENKRANZ, F. Die thermische begünstigung gewisser höhenstufen und deren auswirkung auf phänologische phasen. Wetter u. Leben 1: 104-105. July 1948. 340.8 W53
- 16909 SCHNEIDER, H. Sieve-tube necrosis, an early symptom of collapsing and declining lemon trees. (Abs.) Phytopathology 38: 918. Nov. 1948. 464.8 P56
- 16910 SCHUPHAN, W. Ein beitrag zur physiologischen wirkung einer pflanze auf die andere; gemüseversuche im allein- und mischanbau. Bot. Oecon. 1: 1-15. Ref. July 1948. 450 B6528
- English, French, and Russian summaries.
- 16911 SHESTAKOV, A. G., and SEMENOV, A. I. Effect of calcium on carbohydrate metabolism and growth of plants. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 65-70. 1948. 20 M857
- Experiments with Nicotiana rustica and sunflower.
- 16912 SIAENS, F. Injuries to fruit trees with weed killers. (In Flemish.) Cult. en Handel 14: 696. Nov. 1948. 80 C892
- 16913 SIPE, G. Additional observations on effect of water in pollinating Gladiolus. North Amer. Gladiolus Council B. 16: 39, 41. Dec. 1948. 96.43 N81
- 16914 SOLOV'EV, G. M. Reasons for the dying off of blossoms in buckwheat. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 45-48. 1948. 20 M857
- Nutrition deficiency.
- 16915 STARK, F. C., JR., and COX, C. E. The relation of fungicides to quality in cantaloupes. Peninsula Hort. Soc. Trans. 61: 60-61. 1947. 81 P37
- 16916 TARASENKO, M. T. Comparative effect of various synthetic growth substances on the rooting of green cuttings of cherry. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 118-126. 1948. 20 M857
- 16917 TERENOZHKIN, I. I. On the growth of certain plants in Stalingrad Region in January 1948. (In Russian.) Priroda 37(10): 70-71. Oct. 1948. 410 P933
- Caused by unseasonable warm weather.
- 16918 TRUDOVA, R. G. Development of autotetraploid forms of cauliflower effected through colchicine and apiole. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok. 7: 114-118. 1948. 20 M857



16919 TUGARINOV, V. V. Effect of temperature gradient on the germination of seeds during storage. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 7: 13-16. 1948. 20 M857

16920 UMBERGER, G., and FOWLER, J. An experiment to determine the effect of aerosol on Camelias. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 86-89. 428 C763

DDT in oil.

16921 URSPRUNG, A. Das problem des saftsteigens in den pflanzen. Uebersicht über die wichtigsten erklärungsversuche. (Abs.) Naturf. Gesell. Bern. Mitt. (n. s.) 5: XVII-XIX. 1948. 508 B45

16922 VAVILOV, P. V. Study of the effect of the direction of rows in planting and of shading on light exposure, development and yields of barley and potatoes. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 7: 20-24. 1948. 20 M857

16923 VITTORIA, A. Effects on plants of the eruption of Vesuvius in March 1944 with an illustration of the concept of "functional ideoblast." (In Italian.) Riv. di Biol. 40: 1-22. Ref. 1948. 442.8 R52

16924 WANG, F. H. The effects of clavacin upon root growth. Acad. Sinica. Inst. Bot. Bot. B. 2: 265-269. Dec. 1948, pub. Sept. 22, 1948. 451 Acl

16925 WASSINK, E. C. Some remarks on chromophyllins and on the paths of energy-transfer in photosynthesis. Enzymologia 12: 362-372. Ref. June 1948. 390.08 En9

16926 WATSON, D. P. An anatomical study of the modification of bean leaves as a result of treatment with 2,4-D. Amer. J. Bot. 35: 543-555. Ref. Nov. 1948. 450 Am36

16927 WEI, C. T., and LING, K. C. The effect of 2,4-dichlorophenoxyacetic acid on the spore germination of fungi. Acad. Sinica. Inst. Bot. Bot. B. 2: 275-281. Ref. Dec. 1948, pub. Sept. 22, 1948. 451 Acl

16928 WENT, F. W. Differences in physiological activity of plant-growth substances. (Abs.) Science 108: 681-682. Dec. 17, 1948. 470 Sci2

16929 WILHELM, S. The effect of temperature on the taxonomic characters of *Verticillium albo-atrum* Rke. et Berk. (Abs.) Phytopathology 38: 919. Nov. 1948. 464.8 P56

16930 WILKINSON, J. F. The toxic effect of walnut trees on apple trees, and other plants. Iowa State Hort. Soc. Proc. 82: 134-137. 1948. 81 Io9

16931 YARWOOD, C. E. Germ tube growth of some obligate parasites on agar media. (Abs.) Phytopathology 38: 920. Nov. 1948. 464.8 P56

#### BIOCHEMISTRY

16932 ANDERSON, J. A., and HLYNKA, K. Protein survey of western Canadian wheat 1948 crop. Canada. Grain Res. Lab. Crop B. 30, 30 p. Oct. 1948. 59.9 C161P

16933 ASANA, R. D. "Observations on the relation between the carbohydrate content of leaves and juice quality in sugarcane." Indian Bot. Soc. J. 27: 50-55. Feb. 1948. 450 J821

16934 BIE, G. J. VAN DER. Comparaison de différents types de caoutchouc obtenus à partir d'un même latex frais. Rubber-Stichting. Meded. 60, 8 p. Nov. 1947. 78.9 R827

16935 BÜHRER, N. E. Contribution to the chemical study of Iguape nuts [*Aleurites moluccana*]. (In Portuguese.) Arq. de Biol. e Tecnol. 2: 21-28. 1947. 475 Ar62

English summary.

16936 CAPUTTO, R., LELOIR, L. F., and TRUCCO, R. E. Lactase and lactose fermentation in *Saccharomyces fragilis*. Enzymologia 12: 350-355. Ref. June 1948. 390.08 En9

16937 CHENERY, E. M. Aluminium in the plant world. Kew B. 1948: 173-183. Ref. 451 K51B

16938 EHNROT, B. Topping of beets and the chemical composition of the roots, crowns and leaves. Socker 4: 125-143. (In Swedish.) June 1948. 65.8 Sol

English summary.

16939 FALCO, F., and HILBUG, S. Investigación de alcaloides en las Cactaceas del género *Opuntia*. Argentina. U. Nac. del Litoral. Facul. de Quím. Indus. y Agr. Rev. 16/17: 71-73. 1946/47. 385 Sa5

16940 FEDOTOVA, T. I. Evaluation of [plant] varieties for disease resistance by the laboratory method (serological) of seed [protein] analysis. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 72-78. 1948. 464.9 L542S

16941 FEDOTOVA, T. I. Significance of individual seed proteins in manifesting resistance of plants to diseases. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 62-71. Ref. 1948. 464.9 L542S

16942 FINNEY, K. F., and BARMORE, M. A. Loaf volume and protein content of hard winter and spring wheats. Cereal Chem. 25: 291-312. Ref. Sept. 1948. 59.8 C33

16943 HOLT, A. S., and FRENCH, C. S. Isotopic analysis of the oxygen evolved by illuminated chloroplasts in normal water and in water enriched with O. Arch. Biochem. 19: 429-435. Ref. Dec. 1948. 381 Ar2

16944 KOSKI, V. M., and SMITH, J. H. C. The isolation and spectral absorption properties of protochlorophyll from etiolated barley seedlings. Amer. Chem. Soc. J. 70: 3558-3562. Nov. 1948. 381 Am33J

16945 LU, C. Y., and TAI, K. Y. The chemical analysis of the bark of Peruvian trees (*Cinchona* spp.). (In Chinese.) Taiwan. Forest Res. Inst. B. 4, 18 p. May 1947. 99.9 F7652

English summary.

16946 MEREWETHER, J. W. T. Studies on the lignin of *Eucalyptus regnans*. II. Austral. J. Sci. Res. Ser. A. Phys. Sci. 1: 241-248. Ref. June 1948. 475 Au73

16947 OLSEN, C. Adsorptively bound potassium in beech leaf cells. Carlsberg Lab. Compt. Rend. des Trav. Sér. Chim. 26: 361-367. 1948. 390.9 C19

16948 PAGÁN, C., and LOUSTALOT, A. J. A simple rapid method for estimating toxicity (rotenone equivalent) of Derris root. J. Agr. Res. 77: 271-277. Nov. 1/15, 1948. 1 Ag84J

16949 ROHRBAUGH, L. M. Is the blue region of the spectrum necessary for chloroplast pigment formation in the bean plant? Okla. Acad. Sci. Proc. 28: 61-62. 1948. 500 Ok42

16950 SMITH, J. H. C. Protochlorophyll, precursor of chlorophyll. Arch. Biochem. 19: 449-454. Ref. Dec. 1948. 381 Ar2

16951 TANG, Y. W., and BONNER, J. The enzymatic inactivation of indole acetic acid. II. The physiology of the enzyme. Amer. J. Bot. 35: 570-578. Ref. Nov. 1948. 450 Am36

16952 VIL'JAMS, V. V. Formation of trimethylamine in isolated chloroplasts. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Dok. 7: 70-77. 1948. 20 M857

16953 WOLF, M. J., and others. Comparison of corn starches at various stages of kernel maturity. Cereal Chem. 25: 312-325. Ref. Sept. 1948. 59.8 C33

M. M. MacMasters, J. E. Hubbard, and C. E. Rist, joint authors.

16954 YIN, H. C. Phosphorylase in plastids. Nature [London] 162: 928-929. Dec. 11, 1948. 472 N21

#### FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

##### General

16955 BERGE, H. Der fruchtwechsel, eine notwendigkeit. Landwirtschaftsblatt Weser-Ems 95: 259-260. Nov. 26, 1948. 18 L2345

16956 GARCÍA ROMERO, A. Semillas y siembras. Ceres [Valladolid] Sup. Inform. 12(407): 8-10. Oct. 15, 1948. 15 C33 suppl.

16957 HEADY, E. O., BROWNING, G. M., and WORCESTER, R. W. The right rotation for your farm. Iowa State Col. Ext. Iowa Farm Sci. 3(5): 9-12. Nov. 1948. 275.28 Io94

16958 HUTCHESON, T. B., WOLFE, T. K., and KIPPS, M. S. The production of field crops, a textbook of agronomy. Ed. 3. New York, McGraw-Hill Book Co., 1948. 430 p. Ref. (McGraw-Hill P. in Agr. Sci.) 64 H97

16959 KENNING, W. Rotación cultural en Santa Cruz. Campo [La Paz] 2(18): 78-79. Oct. 1948. 9.1 C15

16960 KOPETZ, L. M. Welche nachfrucht folgt auf luzerne? Pflug 1: 146-147. Sept. 1948. 19 P48

16961 KRUEGER, W. G. Beets or beans? Through Leaves 26(5): 14-16. Sept./Oct. 1948. 66.8 T41

16962 MALLANN, R. DE. Le traitement à sec des semences par les sels organo-mercuriques. Avenir Paysan de la Haute-Marne 4(77): 2. Nov. 19, 1948. 14 Av3



- 16963 MINNESOTA CROP IMPROVEMENT ASSOCIATION. Fall Seed Directory, 1947. 62 p. 61.9 M66F  
Minnesota Agricultural Experiment Station and Agricultural Extension Service cooperating.
- 16964 MOSTERT, J. F. T. Long-term rotations for potatoes and maize. Farmer's Weekly [Bloemfontein] 76: 52-53, 55, 57. Sept. 29, 1948. 24 F225  
In Union of South Africa.
- 16965 NATIONAL INSTITUTE OF AGRICULTURAL BOTANY. Aberystwyth seed crop inspections, 1948. Provisional certification. Natl. Inst. Agr. Bot. Seed Notes 23, 4 p. Sept. 1948. 61.9 N21S
- 16966 OSTERMILLER, J. V. Corn as nurse crop for air-sown clover. Through Leaves 26(5): 18-19. Sept./Oct. 1948. 66.8 T41
- 16967 SACHS, E. Winterleguminosen-samenbau. Landw. Wchnbl. 138: 313-314. Oct. 16, 1948. 18 L2338
- 16968 SIMPSON, C. V. What we have learned from our seed cleaning operations. Minn. Seed Grower 21(6): 1-2. Dec. 1948. 61.8 M66
- 16969 VIDAL FERNÁNDEZ, B. Las semillas y su germinación. Ceres, Sup. Inform. 12(408): 9-10. Nov. 15, 1948. 15 C33
- 16970 VÖLKER. Umstellung zum feldgemüsebau. Land, Wald u. Garten 2: 359-360. Dec. 1947. 18 L22
- 16971 VOROB'EV, S. A. Utilization of grasslands in field crop rotation. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriàzeva. Dok. 7: 16-20. 1948. 20 M857
- 16972 WADLOW, T. J. In my experience. Farmers Weekly [London] 29(22): 40. Nov. 26, 1948. 10 F2226  
Wheat after beet and other rotations.
- 16973 WAGNER, E. Certified seed cleaning problems. Minn. Seed Grower 21(6): 2-3. Dec. 1948. 61.8 M66
- 16974 WIRLEITNER, F. Durch standortwechsel weniger abbauerscheinungen und höhere erträge bei unseren pflanzen. Pflug 1: 169-170. Oct. 1948. 19 P48

## Cereals

- 16975 ARNOLD, H. C. Hybrid corn for every farmer. (In Afrikaans.) Landbouweekblad 30(1523): 34, 36. Sept. 15, 1948. 24 L232
- 16976 AUMÜLLER. Geschichte, abstammung und anbauwert von fesen. Allgäuer Bauernbl. 16: 267-268. Oct. 29, 1948. 18 AL53
- 16977 BELL, G. D. H. Developments in cereal breeding. Inst. Corn & Agr. Merchants. J. 1: 155-169. Autumn 1948. 10 In7
- 16978 BOSCH, L. Rye culture in mixed farming. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandbl. 5: 415-420. Sept. 1948. 12 N383M
- 16979 BROOKS, J. S., CHESSMORE, R., and PASS, H. Performance tests of corn varieties and hybrids, 1948. Okla. Agr. Expt. Sta. Mimeog. C. M-177, 38 p. Dec. 1948. 100 Ok4M
- 16980 BUREMA, E. Spring grain in mixed farming. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandbl. 5: 420-425. Sept. 1948. 12 N383M
- 16981 CARVALLO Y A., A. El maíz híbrido. Agr. Mex. 64(6/7): 18-23, 27. (Cont.) June/July 1948. 8 Ag8
- 16982 CHANG, C. T. Wheat experiments in Kangtin, Sikong. (In Chinese.) Agr. Assoc. China. J. 185: 27-32. Nov. 1947. 22.5 Ag862  
English summary.
- 16983 COSTAZ, M. Compte rendu d'essais en culture de blés printanisés. Defense Agr. de la Beauce et du Perche 45: 325-326. Dec. 1, 1948. 14 D36
- 16984 DOMINGUEZ, M. R. Labores apropiadas para la cebada cervecera. Campo y Suelo Argentino 32(384): 50. Oct. 1948. 9 C15
- 16985 FACCINI, G. C. Seeds for our [Italian] mountain regions: Otterbacher and Petkuser rye. (In Italian.) Humus 4(10): 15-16. Oct. 1948. 16 H88
- 16986 FAJERSSON, F. Annual variation of our wheat varieties; results of seven years experiments at Weibullsholm. (In Swedish.) Lantmannen 32: 728-729. Oct. 30, 1948. 11 L 234
- 16987 FLANDRIN, F. L'origine généalogique de nos blés. Agriculture [Paris] 12: 327-330. Oct. 1948. 14 Ag823
- 16988 FORLANI, R. Grain varieties adapted to northern Italy. (In Italian.) Humus 4(9): 12-13. Sept. 1948. 16 H88
- 16989 FORLANI, R. The varieties of wheat in the present and possibilities for the future. (In Italian.) B. dell'Agr. 82(22): 1-2. Nov. 12, 1948. 16 B87
- 16990 FRANCHET, A. Comment se sème le blé d'Egypte. Foyer Rur. [Paris] 11(58): 4. Dec. 5, 1948. 14 F83
- 16991 FRANCHET, A. Rendement du blé d'Egypte. Foyer Rur. [Paris] 11(57): 4. (Cont.) Nov. 28, 1948. 14 F83
- 16992 FRASSINETO, A. DI. "Seed grain 'Mara.'" (In Italian.) Terra [Firenze] 59(40): 3. Oct. 3, 1948. 16 T274
- 16993 FRENTZEN, H. Die vorzüge des wintergerstenanbaus. Neue Mitt. f. die Landw. 3: 290. Sept. 21, 1948. 18 N39
- 16994 GRIMALDI, A. Well-known and new varieties of grain in central Italy. (In Italian.) Humus 4(10): 13-14. Oct. 1948. 16 H88
- 16995 HEALE, W. Grow corn for your hens. Poultry Farmer [London] 119(3101): 4. Dec. 10, 1948. 47.8 F312
- 16996 HEDAYETULLAH, S., ROY, K. P., and SEN, S. A study on the effect of cultural factors in transplant paddy on the behaviour of some plant characters influence in the yield. Indian J. Agr. Sci. 17: 69-80. Apr. 1947. 22 Ag831
- 16997 HEIM, M. Baut mehr wintergerste zwecks verbesserung der futterwirtschaft! Allgäuer Bauernbl. 16: 249-251. Oct. 15, 1948. 18 AL53
- 16998 HENKE. Petkuser roggen. Natur u. Tech. 2: 191-198. Sept. 1, 1948. 474 N215
- 16999 HORAK, K. Sur körnermaisernte. Landwirtschaft 1948: 259-260. Sept. 18, 1948. 19 L235
- 17000 JENKINS, M. T. Hybrid seed produces 3/4 billion bushels more corn annually. U. S. Agr. Res. Admin. Res. Achvt. Sheet 108, 2 p. Oct. 1948. 1.98 R31
- 17001 KERLE, W. D. Maize variety recommendations for 1948 sowing. Agr. Gaz. N. S. Wales 59: 455-458. Sept. 1948. 23 N472
- 17002 KNOSP, G., and ANTHYME, L. Les nouvelles variétés de blé à grand rendement créés dans le Pévèle au cours de ces 10 dernières années. Agriculture [Paris] 12: 343-348. Nov. 1948. 14 Ag823
- 17003 KOENS, A. J. Sesame. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel Ila, p. 599-603. 's-Gravenhage, 1948. 37 H14L  
Culture and varieties, chiefly.
- 17004 LAFOREST, G. Le seigle; augmentons nos rendements en semant des seigles sélectionnés et en leur appliquant des engrais phosphates. Unité Paysanne 3(153): 2. Oct. 9, 1948. 14 Un3
- 17005 LEHNER, F. Experiments with wheat in Uruguiana. (In Portuguese.) Lav. Arroz. 2(20): 23-26, 31-32. Aug. 1948. 59.8 L39
- 17006 MUÑOZ GINARTE, B. Cultivo del maíz. Agronomía [Habana] 8(9): 20-24. Sept. 1948. 8 C893
- 17007 MURILLO ESQUIVEL, N. El problema del maíz en Costa Rica y medidas prácticas para resolverlo. Suelo Tico 1: 55-57. Aug. 1948. 8 Su2
- 17008 NOLL-PILLNITZ. Was fehlt meiner maispflanze? Land, Wald u. Garten 3: 16. Jan. 1948. 18 L22
- 17009 PARODI, L. R. Los maíces indígenas de la República Argentina. Rev. Mens. Ilus. B. A. P. 31(372): 7-8, 25. Nov. 1948. 9 R326
- 17010 PETIT, A. La désinfection des semences de blé contre la carie. Colon Franç. de Tunisie 58(2067): 1, 3. Oct. 2, 1948. 24 C712
- 17011 PIACCO, R. About rice seed imported from California. (In Italian.) Riscicoltura 36: 203-204. Sept. 1948. 59.8 G43
- 17012 PIACCO, R., and SAMPIETRO, G. Comparative study of the principle varieties of rice grown in Italy. (In Italian.) Riscicoltura 36: 182-186. (Cont.) Aug. 1948. 59.8 G43
- 17013 PIACCO, R. Rice culture at the mouth of the Rodano. (In Italian.) Riscicoltura 36: 205-207. (Cont.) Sept. 1948. 59.8 G43
- 17014 PIACCO, R., and LUCOV, A. Rice culture in Bulgaria. (In Italian.) Riscicoltura 36: 211-212. (To be cont.) Sept. 1948. 59.8 G43



17015 RANKIN, W. H. Five steps to success in small grain production. *Victory Farm Forum* 33: 2. Dec. 1948. 281.8 F226

17016 RAUSSENDORF, C. W. Weniger verluste beim dreschen. *Bauern-Jahrb.* 1948: 43-45. 18 B322

17017 ROBERTSON, T. C. South African visits land of hybrid maize; United States farmers and seed factories co-operate to supply country's varied needs. *Farmer's Weekly* [Bloemfontein] 76: 52-53. Dec. 1, 1948. 24 F225

17018 RUSSELL, W. Growing poultry food on the farm. *Poultry Farmer* [London] 119(3101): 7. Dec. 10, 1948. 47.8 F312

Grains.

17019 SCARSETH, G. D. Effect of hot weather on grain crop yields. *Natl. Live Stock Prod.* 27(4): 16. Jan. 1949. 280.38 N21

17020 SUMMERS, E. Procedimiento eficaz y simple para obtener semilla selecta de maíz. *Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 14: 23-25. July 1948. 9.8 P4352

17021 TAKAHASHI, R., and ITANO, Y. Relations between the properties of awns and the ash contents in Japanese barley. (In Japanese.) *Ohara Inst. Agr. Res. Rpt.* 37(1): 5-6. June 1947. 22.5 N684

17022 TAKAHASHI, R. Studies on the classification and the geographical distribution of the Japanese barley varieties. 5. Inheritance of the coleoptile length and its significance for the breeding. *Ohara Inst. Agr. Res. Rpt.* 37(3): 22-28. May 1948. 22.5 N684

17023 TEXAS. AGRICULTURAL EXPERIMENT STATION. Summary of the 1948 Texas corn performance tests. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1140, 10 p. Nov. 29, 1948. 100 T31P

17024 TU, D. S., and KUANG, H. H. Studies on the fertility of rice hybrids in varietal crosses. (In Chinese.) *Agr. Assoc. China. J.* 185: 63-72. Ref. Nov. 1947. 22.5 Ag862

English summary.

17025 UNDERWOOD, E. J., and MILLINGTON, A. J. Further studies with cereal hays in W. A. *West. Austral. Dept. Agr. Leaflet* 905, 11 p. 1947. 23 W52B

17026 VOLANTI, U. Further data on production of American [corn] hybrids. (In Italian.) *Agr. Bresciana* 1(39): 1. Sept. 29, 1948. 16 Ag89

17027 VOLANTI, U. Hail injured wheat which revives. (In Italian.) *Gior. di Agr.* 58: 280. Oct. 10, 1948. 16 It1G

17028 YOSHIOKA, K. On the perenniality of rice plant grown by the direct seeding method. (In Japanese.) *Ohara Inst. Agr. Res. Rpt.* 37(1): 40. June 1947. 22.5 N684

17029 ZANINI, E., and BALLATORE, G. P. Varieties and strains of grain most widespread in Sicily. (In Italian.) *Humus* 4(10): 5-7. Oct. 1948. 16 H88

#### Fiber Crops

17030 CARDONNE, P. La culture du lin. *Vioz des Colons* 30(1472): 2. Oct. 4, 1948. 24 V85

17031 EGYPT. MINISTRY OF AGRICULTURE. COTTON RESEARCH BD. The cottons of Egypt, by H. A. Hancock. *Cairo, Govt. Press*, 1948. 38 p. 72 H195

17032 GEORGE, J. F. Cotton harvesting. (In Portuguese.) *Portugal. Junta de Export. do Algodão Colon. Deleg. de Moçambique. Sér. Divulg.* 1, 13 p. 1947. 286.3729 P83

17033 MALAYAN UNION. DEPT. OF AGRICULTURE. Manila hemp (*Musa textilis*). *Malay. Union. Dept. Agr. Agr. Leaflet* 25, 4 p. 1947. 22.5 F31A

17034 MANNING, C. W., and CAIN, S. H. Williamson County cotton variety tests, 1946-48. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1141, 2 p. Dec. 1, 1948. 100 T31P

17035 OROZCO CASORLA, J. M. La sección de botánica descubrió dos plantas textiles de nuestra flora. *Suelo Tico* 1: 57-58. Aug. 1948. 8 Su2

*Malachra alceifolia* and *Góvania lupuloides*.

17036 PAIVA, O. G. DE. Indian jute of Brazil. (In Portuguese.) *Chacaras e Quintais* 78: 599-601. Nov. 15, 1948. 9.2 C34

17037 REMUSSI, C. El cultivo del lino textil. *Bolsa de Com. Rosario. Rev.* 36(882): 5-8. Oct. 15, 1948. 287 R71

Also in *Campo y Suelo Argentino* 32(384): 46-49. Oct. 1948. 9 C15

17038 SCHOFFELMAYER, V. Cotton becoming 'big business' on west Texas plains. *Cotton Trade J.* 30(3): 10-11. Jan. 21, 1949. 72.8 C8214

17039 SIMONNEAU, P. La culture irriguée du cotonnier dans la plaine de l'Habra. *Rev. Agr. de l'Afrique du Nord* 46: 538-544. Oct. 29, 1948. 80 R326

17040 STEVENSON, J. A. Yield and quality of Australian fibre are improving. *Austral. Flax Prod. Com. Newslet.* 65: 46-47. Sept. 1948. 73.19 Au7

#### Forage Crops and Grasses

17041 ADWANDTER E., F. Las empastadas. *Agr. Austral* 14: 7368-7369. Sept. 1948. 9.3 Ag842

17042 ÅKERBERG, E., and WIKLUND, K. Varieties and seed mixtures for pastures in Norrland. II. Some experiences of pasture plant varieties, suitable for Norrland. (In Swedish.) *Sveriges Utsädesför. Tidskr.* 58: 229-242. Ref. 1948. 61.9 Sv23  
English summary.

17043 ALLRED, B. W. How to inventory grazing resources and develop a ranch conservation plan. *Sheep & Goat Raiser* 29(3): 28-32. Dec. 1948. 45.8 Sh3

17044 ANDERSON, E. Pastos en Piura y en Cajamarca; dos problemas diferentes. *Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 14: 21-22. July 1948. 9.8 P4352

17045 ARAUJO, A. A. DE. Forage plants for dairy farms—new legumes. (In Portuguese.) *Granja [Porto Alegre]* 3(35): 40-41. Aug. 1948. 9.2 G76

17046 ARAUJO E SILVA, O. B. DE. Legumes in pastures. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7: 140-142. July/Sept. 1948. 9.2 Ag892

17047 ARAUJO E SILVA, O. B. DE. Legumes on cattle ranches. (In Portuguese.) *Lav. Arroz.* 2(20): 36. Aug. 1948. 59.8 L39

17048 BADILLO, V. M. Consideraciones acerca del problema forrajero en Venezuela. *Agro* 3(1/2): 17-21. Ref. Jan./Apr. 1948. 9.95 Ag83

17049 BANAL, R. Queen alfalfa. (In Italian.) *Humus* 4(9): 25-26. Sept. 1948. 16 H88

17050 BEALL, F. Good cattle grow better on good grass. *Farmer-Stockman* 61(11): 48. Nov. 1948. 6 Ok45

17051 BEETLE, A. A. The range survey problem. (Abs.) *Colo.-Wyo. Acad. Sci. J.* 3(6): 44-45. Sept. 1948. 500 C717

17052 BENEDICTUS, L. J. Silage manufacture and feeding of sweet lupine. (In Dutch.) *Netherlands. Landbouwwoorlichtingsdienst. Maandbl.* 5: 442-446. Sept. 1948. 12 N383M

17053 BLANCO GONZÁLEZ, T. Cultivos forrajeros—la alfalfa. *Ager* 45: 168-170. Sept. 1948. 33.23 Ag3

17054 BLEAK, A. T. Heavy stocking—a handicap to range sheep production. *U. S. Forest Serv. Intermountain Forest Range Expt. Sta. Res. Paper* 17, 6 p. Dec. 1948. 1.9622 I2R31  
Range deterioration.

17055 BRESACLA, M. Report on the work of the Stazione Sperimentale di Praticoltura at Lodi. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2(sup.): IX-XLVIII. 1948. 16 An76  
English summary.

17056 BRESAOLA, M. Research in connection with forage crops. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2(sup.): I-VII. 1948. 16 An76  
English summary.

17057 BROWN, B. A. Connecticut's green pasture contest shows big changes in crops and methods. *C. M. P. A. Bul.* 29(352): 2. Dec. 1948. 44.9 C768

17058 CAMPBELL, R. S., and CRAFTS, E. C. How to keep and increase black grama [*Bouteloua eriopoda*] on Southwestern ranges. *U. S. D. A. Leaflet* 180, slightly rev., 8 p. July 1948. 1 Ag84L

17059 CANADA. DEPT. OF AGRICULTURE. Better pastures in eastern Canada. *Canada Dept. Agr. Farmers' B.* 150, 59 p. Oct. 1948. 7 C16F



- 17060 CARTER, J. F., and LAW, A. G. The effect of clipping upon the vegetative development of some perennial grasses. *Amer. Soc. Agron. J.* 40: 1084-1091. Dec. 1948. 4 Am34P
- 17061 CHAMBERS, H. M. Bumper crop of native grass seed. *Soil Conserv.* 14: 123-124. Jan. 1949. 1.6 So3S  
In Oklahoma.
- 17062 CHAMPEVAL, Luzerne arborescente. *Voix des Colons* 30(1481): 3. Dec. 6, 1948. 24 V85
- 17063 CHAPMAN, H. H. Modern overgrazing of livestock as the direct cause of ruin of southwestern agriculture. *J. Forestry* 46: 929-931. Dec. 22, 1948. 99.8 F768
- 17064 COFFIN, D. R. Breeding better Sudan. *Capper's Farmer* 59(11): 16. Nov. 1948. 6 M693
- 17065 COLLINS, L. E. The grassland controversy. *Farming Gloucestershire* 8(1): 9, 11. 1948. 10 F2291
- 17066 DANSEREAU, P., and GILLE, A. Écologie des principaux types de pâturages des environs de Granby. II. *Agriculture [Quebec]* 5: 269-306. Ref. Sept. 1948. 7 Ag82
- 17067 DAVIES, W. Leys and grassland farming. *Inst. Corn & Agr. Merchants. J.* 1: 169-176. Autumn 1948. 10 In7
- 17068 DAVYDOVA, L. P. Hay harvesting—the most important stage of stud-farm work. (In Russian.) *Konevodstvo* 18(3): 1-9. May/June 1948. 42.8 K832
- 17069 DAWSON, A. H. No rain for months, grass still green. *Prog. Farmer, Tex. Ed.* 63(11): 15. Nov. 1948. 6 T311  
Grassland management.
- 17070 DESSUREAUX, L. Amélioration de la luzerne. *Rev. Agr. de l'Afrique du Nord* 46: 535. Oct. 22, 1948. 80 R326
- 17071 FOWLER, A. B., and DUNMORE. La production des aliments à la ferme. *SPEL; B. Int. d'Inform. et de Doc.* 3(8/9): 27-28. Aug./Sept. 1948. 44.8 Sp1
- 17072 FRANKENA, H. J. Grasslands. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 5: 472-478. Oct. 1948. 12 N383M  
Forage plants.
- 17073 GEORGE, M. A. Things you'll want to know if you plan to try birdsfoot. *Capper's Farmer* 59(11): 14. Nov. 1948. 6 M693
- 17074 GEUS, J. DE. Report on a S. M. grassland demonstration farm at Burum (Friesland), 1937-1944. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Meded. 49, 65 p. 1947. 12 N383
- 17075 HEDDLE, R. G. Pasture reseeding—some experiences in east Scotland. *Edinb. and East Scot. Col. Agr. Misc. P.* 17: 211-215. Apr. 1948. 103 Ed4M
- 17076 HENKEL, J. S. Veld fires have their uses. *Veld Trust News* 5(2): 18-19. Nov. 1948. 56.8 V54
- 17077 HEUSER. Züchterisches von der luzerne. *Land, Wald u. Garten* 3: 108-109. (Concl.) May 1948. 18 L22
- 17078 HEUSER, O. E. Betriebswirtschaftliches aus südwestdeutschen grünländwirtschaften. *Land, Wald u. Garten* 3: 129-130. (To be cont.) June 1948. 18 L22
- 17079 HOWARD, SIR A. The leguminous crop. *Organic Farming Digest* 1(7): 13-14. Oct./Dec. 1947. 56.8 Or32
- 17080 JÄNTTI, A. Die weideverhältnisse in Finnland. (In Finnish.) *Acta Forest. Fenn.* 53(2): 1-225. Ref. 1947. 99.9 F492  
German summary.
- 17081 JENKINS, T. A. In a harvest passing the \$500,000 mark, Oklahoma native grass seeds become big business. *Seed World* 63(11): 20, 22. Dec. 7, 1948. 61.8 Se52
- 17082 JOHANNSON, T. Permanent pastures summer 1948. (In Norwegian.) *Norsk Landbr.* 14: 416-417. Nov. 12, 1948. 11 N8122
- 17083 KAUTER, A. Der futterbau auf den Britischen Inseln. *Schweiz. Landw. Monatsh.* 1948: 313-332. Ref. Oct. 20, 1948. 17 Sch93
- 17084 KLIPPLE, G. E. The effect of time and degree of clipping on the volume of forage produced by blue grama. (Abs.) *Colo.-Wyo. Acad. Sci. J.* 3(6): 46. Sept. 1948. 500 C717
- 17085 KLOSE, H. Der rotkee. *Bauern-Jahrb.* 1948: 35-37. 18 B322
- 17086 KRATOCHVÍL, J., and ŠNOFLÁK, J. Contributions to the pollination of red clover and its insect pollinisers. (In Czech.) *Vysoká Škola Zeměděl. Fakul. Hospodář. Sborn. Sign C* 39, 30 p. 1948. 105.92 B834  
English and Russian summaries.
- 17087 KREIZINGER, E. J. Crop profits—use good seedbeds for big dividends. *West. Dairy J.* 5(2): 54-55. Dec. 1, 1948. 44.8 W524  
Forage plants culture.
- 17088 LAWTON, B. E. Strides made by cattlemen in Broward [County]. *Fla. Cattleman* 12(12): 22-23. Sept. 1948. 43.8 F66  
Chiefly on the fertilization of pastures.
- 17089 LEEPER, R. L. Grassland farming—and security. *Ohio Farm Bur. News* 28(5): 36-37. Dec. 1948. 6 Oh34
- 17090 LÜCKING, W. Zwischenfruchtfutterbau in höheren lagen. *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 284. Nov. 6, 1948. 18 L2346
- 17091 LUSH, R. H. Pasture development. *Natl. County Agent* 4(12): 10-11. Dec. 1948. 275.28 N213
- 17092 MCKEE, R. Alyceclover and hairy indigo boost Southern livestock farming. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 103, 2 p. Oct. 1948. 1.98 R31
- 17093 MCKEE, R. Big-trefoil [*Lotus uliginosus*] proved valuable as forage crop for the West and South. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 101, 2 p. Oct. 1948. 1.98 R31
- 17094 MCKEE, R. Crotalaria add superior summer soil-improving crops in the South. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 99, 2 p. Oct. 1948. 1.98 R31
- 17095 MCKEE, R. Improved vetch varieties established commercially. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 100, 2 p. Oct. 1948. 1.98 R31
- 17096 MCKEE, R. New varieties of lespedeza extend its use and increase production. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 102, 2 p. Oct. 1948. 1.98 R31
- 17097 MATTHEI, F., PAVEZ, D., and RAMSAY, J. Mejoramiento de la capacidad forrajera en la Zona Sur Austral [Chile]. *Agr. Austral* 14: 7365-7368. Sept. 1948. 9.3 Ag842
- 17098 MATURANA, A. Conservacion de forrajes frescos. *Campo y Suelo Argentino* 32(384): 38, 40-42. Oct. 1948. 9 C15
- 17099 MAULDIN, R. C. Little bluestem as a grazing grass in the rangelands of North America. *Tex. Livestock J.* 7(12): 8, 42. Dec. 15, 1948. 49 T29
- 17100 MAULDIN, R. C. The native prairie bluestem hay belt of Texas & Okla. *Tex. Livestock J.* 7(11): 9, 14. Nov. 15, 1948. 49 T29
- 17101 MIEDEMA, R. P. H. Forage crop culture in Limburg. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 5: 436-442. Sept. 1948. 12 N383M
- 17102 MIEGEVILLE. La luzerne marocaine, première du monde. *Terre Maroc.* 20: 299-301. Nov. 1948. 24 T44
- 17103 MONROE, A. Pastures—wearing the 4-H green. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(11): 30. Nov. 1948. 6 So81  
In Clay County, Miss.
- 17104 MONTUORI. La vesce avoine. *Rev. Agr. de l'Afrique du Nord* 46: 522-523. Oct. 15, 1948. 80 R326
- 17105 NEASE, F. R. Range deterioration in south central Oklahoma. *Okla. Acad. Sci. Proc.* 28: 69-70. 1948. 500 Ok42
- 17106 NIXON, W. M. Back to grass. *Ranchman* 8(8): 6-8. Dec. 1948. 49 R15  
Oklahoma pasturage.
- 17107 NOGUEIRA, A. Amazon pasture situation. (In Portuguese.) *Soc. Coop. da Indus. Pecuaria do Para.* B. 16(70): 4-6. (Cont.) Sept. 1948. 280.2409 Sol
- 17108 OTTINGER, A. P. Range conservation in West Texas "beats the drought." *Tex. Livestock J.* 7(11): 7. Nov. 15, 1948. 49 T29
- 17109 PELLETIER, J. R. La luzerne et le progrès de nos fermes laitières. *B. des Agr.* 44(12): 6, 45-47. Dec. 1948. 7 B872  
Quebec.



- 17110 PENDERGRASS, W. Farmers have done well in getting stands started. *Livestock Weekly* 2(39): 4. Aug. 5, 1948. 49 L753  
Kentucky 31 fescue.
- 17111 PICKFORD, G. D., and REID, E. H. Forage utilization on summer cattle ranges in eastern Oregon. *U. S. D. A. C.* 796, 27 p. Sept. 1948. 1 Ag84C
- 17112 PUCCINI, G. A forage plant to try out: Nod-head clover [*Trifolium cernuum*]. (In Italian.) *Terra [Firenze]* 59(38): 3. Sept. 19, 1948. 16 T274
- 17113 PUCCINI, G. Interesting collection of spontaneous forage plants: Strawberry clover. (In Italian.) *Terra [Firenze]* 59(37): 3. Sept. 12, 1948. 16 T274
- 17114 RATERA, E. L. Consideraciones generales sobre el pasto Bermuda (*Cynodon dactylon* Linn. Pers.). *Bolsa de Cereales, Buenos Aires. Rev.* 35(1872): 10, 21-23. Ref. Nov. 11, 1948. 287 B866
- 17115 RITCHEY, G. E. Lupines—an old crop that is new to the South. *Victory Farm Forum* 33: 13-14. Dec. 1948. 281.8 F226
- 17116 ROBERTSON, C. E. Alfalfa production practices and cost comparisons. *Ariz. Agr. Expt. Sta. B.* 215, 22 p. Sept. 1948. 100 Ar4
- 17117 ROBINSON, D. H. Leguminous forage plants. *Ed. 2.* London, Arnold 1947. 119 p. 60.3 R56
- 17118 ROSENGURTT, B. Pastos uruguayos. II. *Paspalum urvillei*. *Asoc. de Ingen. Agron. Rev.* 20(81): 7-8. June 1948. 290.9 As73
- 17119 ROSS, N. Pasture conservation. *Organic Farming Digest* 1(9): 17-20. Apr./June 1948. 56.8 Or32
- 17120 RYAN, M. The care and management of grass land. *Beet Grower* 2: 303-305. Oct. 1948. 66.8 B392
- 17121 SAINI, H. R., and MALIK, H. C. Varieties of lucerne (*Medicago sativa*) for cultivation in Punjab. *Indian J. Agr. Sci.* 17: 94-100. Apr. 1947. 22 Ag831
- 17122 SANDERSON, E. E. Grass-legume pastures. *Dakota Farmer* 68(21): 1, 33. Nov. 6, 1948. 6 D14
- 17123 SCOTT, J. C. Veld and pasture management in the Natal high-rainfall areas. *Farming So. Africa* 23: 607-614. Sept. 1948. 24 So842
- 17124 SEAL, W. Kentucky 31 fescue: something new for the South. *Ala. Farmer* 27(4): 6, 15. Jan. 1949. 276.8 AL1
- 17125 SELL, O. E. Winter grazing in the south. *Pasture Prog.* 3: 1-4. Nov. 12, 1948. 60.18 P262
- 17126 SHEN, L. Y. A study of natural crossing in *Vicia faba*. (In Chinese.) *Agr. Assoc. China. J.* 185: 55-61. Nov. 1947. 22.5 Ag862  
English summary.
- 17127 SLYCKEN, A. VAN. Le trèfle souterrain (*Trif. subterraneum* L.). *Rev. de l'Agr.* 1: 736-742. Sept./Oct. 1948. 13 R322
- 17128 SMITH, C. S. Full production in the Pennines; from rough grazing to first-class pasture, from Gallo-ways and Rough Fell sheep to dairy Shorthorns. *Farmers Weekly [London]* 38-39. Nov. 12, 1948. 10 F2226
- 17129 SMITH, C. S. "Row-crop" grazing. *Farmers Weekly [London]* 29(23): 41. Dec. 3, 1948. 10 F2226  
Sward between corn stubble for winter grazing.
- 17130 STIPPLER, H. H., BUCHANAN, M. T., and LAW, A. G. Methods of harvesting hay fields and pastures in northwestern Washington (North Coast area), 1945. *Wash. Agr. Expt. Sta. B.* 502, 76 p. Apr. 1948. 100 W27E
- 17131 STODDART, L. A. Planting grass on Utah's ranges. *Farm & Home Sci. [Utah Sta.]* 9(4): 8-9, 18. Dec. 1948. 100 Ut1F
- 17132 SYDOW, E. Futterplanungsgedanken für die bäuerlichen Betriebe. *Land, Wald u. Garten* 3: 3-5. Jan. 1948. 18 L22
- 17133 THOMPSON, W. R. Winter grazing in South aids livestock industry. *Victory Farm Forum* 33: 16. Dec. 1948. 281.8 F226  
Pasture management.
- 17134 TIEMANN. Zwischenfrucht gegen futternot. *Deut. Landw. Presse* 71(5): 1. Sept. 4, 1948. 18 D482
- 17135 TOMASI, K. Die billige weidewirtschaft. *Salzburg. Bauer* 3(40): 3-4. Sept. 30, 1948. 19 Sa3
- 17136 UBALDI, L. Good pasture management. (In Italian.) *Agr. Tosc.* 3: 348-349. Nov. 1948. 16 Ag827
- 17137 VEIGA, F. DE M. Tropical kudzu (*Pueraria javanica* Benth.). (In Portuguese.) *Chacaras e Quintais* 78: 567-568. Nov. 15, 1948. 9.2 C34
- 17138 VIDAL MORA, J. M. La zulla, cultivo típico en Menorca. *Balearic Isl. Diputación Prov. B. de Agr.* 38: 2-3. Nov. 1947. 15 B19
- 17139 WELCH, J. V. Kentucky 31 fescue gives quick sod along with virtual all-year grazing; one farmer says no hay needed now. *Livestock Weekly* 2(39): 4. Aug. 5, 1948. 49 L753
- 17140 WESTERN AUSTRALIA. DEPT. OF AGRICULTURE. *Phalaris tuberosa*. *West. Austral. Dept. Agr. Leaflet* 908a, 3 p. 1948. 23 W52B
- 17141 WILKINSON, G. M. The red dirt pasture. *South. Lumberman* 177(2225): 145-146. Jan. 3, 1949. 99.81 So82  
Red Dirt Wild Life Management Preserve.
- 17142 YORK, F. A. Hay is a farmer's dilemma, but it is a No. 1 advantage to have. *C. S. I. R. Irrig. Res. Sta. Farmers' Newslet.* 16: 9. Oct. 1948. 55.9 G87
- 17143 ZURN, F. Können die almerträge verbessert werden? Interessante ergebnisse der borstgrasbekämpfung. *Pflug* 1: 189-191. Nov. 1948. 14 P48

## Oil Crops

- 17144 ANDRIBET, P., and VINOT, G. Le tournesol en Charente-Maritime. *France. Min. de l'Agr. B. Tech. d'Inform.* 28/29: 229-232. Apr./May 1948. 14 F844B  
Culture.
- 17145 BALDACCI, M. Results of agrarian research on soybeans. (In Italian.) *Olearia* 2: 750-756. Nov. 1948. 307.8 OL2
- 17146 BALDRATI, I. Oil plants of Eritrea and Italian Somaliland. (In Italian.) *Olearia* 2: 770-780. Nov. 1948. 307.8 OL2
- 17147 CASTELPOGGI, R. M. La conveniencia de utilizar semilla fiscalizada en la siembra de girasol. *Campo y Suelo Argentino* 32(384): 54. Oct. 1948. 9 C15
- 17148 CLERMONT-FERRAND, FRANCE. STATION D'AMELIORATION DES PLANTES. Le soya, caractères, classification des variétés, by C. Schad, R. Mayer and P. Hugues. *Paris, Impr. Nationale*, 1947. 128 p. 452.35 C59
- 17149 COLLINS, E. R., NELSON, W. L., and HARTWIG, E. E. Profitable soybean yields. *N. C. Agr. Col. Ext. C.* 295, rev., 4 p. Sept. 1948. 275.29 N811
- 17150 DEUTSCHE ARBEITSGEMEINSCHAFT SOJA. Bericht über die erste deutsche Soja-Tagung in Weissenburg in Bayern, 28. bis 31. August 1947. n. p., 1947. 24 p. 60.39 D48
- 17151 GATTORTA, G., and TOMBESI, L. Influence of the water regime on production and composition of rape seed. (In Italian.) *Olearia* 2: 567-569. Aug./Sept. 1948. 307.8 OL2
- 17152 IMBAUD, and RUFFIÉ. Un exemple de culture intensive des oléagineux: le colza dans l'Aisne. *France. Min. de l'Agr. B. Tech. d'Inform.* 28/29: 225-228. Apr./May 1948. 14 F844B
- 17153 MODENA, A. Experiments in growing soybeans in the mountains of Pistoia. (In Italian.) *Agr. Tosc.* 3: 346-347. Nov. 1948. 16 Ag827
- 17154 MOIZARD, A. Le colza de printemps. *France. Min. de l'Agr. B. Tech. d'Inform.* 28/29: 265-266. Apr./May 1948. 14 F844B  
In the rotation.
- 17155 PLUVINAGE, R., and LABAYLE, DE. La production des semences d'oléagineux. *France. Min. de l'Agr. B. Tech. d'Inform.* 28/29: 189-192. Apr./May 1948. 14 F844B  
Varieties, chiefly.
- 17156 POND, G. A. Soybeans in Minnesota. *Soybean Digest* 9(2): 26. Dec. 1948. 60.38 So9
- 17157 REBOUR, H. Le XII congrès international d'oléiculture. *Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc.* 18: 225-228. Ref. July/Aug. 1948. 80 F9482
- 17158 ROSEFIELD, J. L. Peanut prices too high, butter manufacturers are told. *Peanut J. & Nut World* 28(3): 25. Jan. 7, 1949. 77.8 P313
- 17159 RUDOLF, W. Züchtung und anbau der sonnenblume. *Neue Mitt. f. die Landw.* 3: 288-290. (Concl.) Sept. 21, 1948. 18 N39



17160 SAUGER, R. Le colza en Seine-inférieure. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 221-223. Apr./May 1948. 14 F844B

Culture and varieties.

17161 WEBER, C. R., and WEISS, M. G. Adams, a new soybean. Soybean Digest 9(2): 14-15. Dec. 1948. 60.38 So9

#### Sugar Crops

17162 EASTERBROOK, L. F. How Britain grows her sugar. Young Farmer 16: 175-178, 180. Nov./Dec. 1948. 10 Y8

17163 FRANKEN, W. C. A. C. Sugar beet culture in East Brabant. (In Dutch.) Boer en Tuinder 2(99): 7. Nov. 27, 1948. 12 B632

17164 GÓMEZ ALVAREZ, F. Caña de azúcar: la variedad P. R. 903. Agro 3(1/2): 35-36. Jan./Apr. 1948. 9.95 Ag83

17165 HENDERSON, L. H. The new look in the beet harvest. Through Leaves 26(5): 29-30. Sept./Oct. 1948. 66.8 T41

17166 KHANNA, K. L., and RAHEJA, P. C. Some observations on the water relations of sugar cane plant in North Bihar. Indian J. Agr. Sci. 17: 353-369. Ref. Dec. 1947. 22 Ag831

17167 LECLERCQ, P. Les espérances de la culture betteravière. Conféd. Gén. des Planteurs de Betteraves. B. d'Inform. 36: 1, 5. July 1948. 66.9 C762

17168 MONDT, L. R. A fieldman looks at the record. Through Leaves 26(5): 23-27. Sept./Oct. 1948. 66.8 T41

Sugar beets.

17169 MULDER, F. Sugar beet culture on light soil. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandb. 5: 428-431. Sept. 1948. 12 N383M

17170 RASMUSSEN, J. Sugar beet breeding. Skand. Banken. Q. Rev. 29: 60-64. Oct. 1948. 284.9 Sk1

17171 SCHOENFELD, S. Azúcar de caña: su aclimatación en América. Rev. Nac. de Ciencias Polít.-Econ.-Sociales 8(85): 11-12. Dec. 1948. 280.8 R3295

17172 SHARAPOV, N. I. Sugarcane in U. S. S. R. (In Russian.) Priroda 37(10): 55-59. Ref. Oct. 1948. 410 P933

17173 TAIWAN SUGAR CORPORATION. The annual report of sugarcane variety comparative tests of 1946-1947. J. Sugarcane Res. 2(8): 23-48. Aug. 1948. 65.8 J822

English summary.

17174 ULLIVARRI, R. F. DE. Trabajos sobre caña de azúcar en Colombia. IDIA; Inform. de Invest. Agr. 1(11): 4. Nov. 1948. 9 Id3  
Breeding research.

#### Tobacco

17175 GOENAGA, A. Puerto Rican [Tobacco] Institute to build at Comerio; many new ideas in research to come through. Tobacco [New York] 127(27): 12, 30. Dec. 30, 1948. 286.89 T552

17176 JOGLAR RODRIGUEZ, F. Semilleros permanentes de tabaco. Puerto Rico. Agr. Col. Ext. C. Inform. 52, rev., 4 p. July 1948. 275.29 P96C

17177 PONTING, C. Home-grown tobacco. Pop. Gard. 50: 351-352. Nov. 13, 1948. 80 G1622

#### HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

#### General

17178 ARRUDA, A. F. DE. My garden: invitation to horticulture. (In Portuguese.) Chacaras e Quintais 78: 572-574. (Cont.) Nov. 15, 1948. 9.2 C34

17179 ARTHUR, J. M. Growing plants in artificial climates. Amer. Chem. Soc. Va. Sect. B. 26: 61, 63. Dec. 1948. 381 Am33V  
Under artificial light.

17180 BARCANTE, I. Some horticultural species. (In Portuguese.) Granja [Porto Alegre] 3(35): 49-50. (Cont.) Aug. 1948. 9.2 G76

17181 BASSE, H. Warum hochzuchtsaatgut? Obst- u. Gartenbau 3: 65-66. Nov. 1, 1948. 80 Ob72

17182 BEDNAR, L. Ein berggarten. Gart.-Z. Illus. Flora 71: 125-126. Sept. 1948. 80 G1991

17183 BETTER HOMES AND GARDENS. Gardening guide, by F. B. Woodroffe, J. E. Howland, and G. Neff. Des Moines, Meredith Pub., 1948. 90 B463

Earlier edition has title: Better home & gardens' gardening guide.

17184 BHATT, S. S. Message of horticulture. West Punjab Fruit J. 12(44): 30-32. Jan./Apr. 1948. 80 P962

17185 BLIN, H. Utilité de la stratification des graines, des greffons et des boutures. Acclimatation 75: 257. Dec. 4, 1948. 14 Ac2

17186 BRANNER, F. Entwicklung der obst- und gemüseverwertung. Salzburg. Bauer 3(44): 2. Oct. 28, 1948. 19 Sa3

17187 BRISTOL UNIVERSITY. AGRICULTURAL AND HORTICULTURAL RESEARCH STATION. Annual report, 1947. Bath, 1947. 243 p. 84 B77

17188 BUNN, H. C. How to use the soil pot maker. Grower 30: 689, 691. Oct. 23, 1948. 286.83 M34

17189 CARLETON, M. How research is contributing to your garden. House & Gard. 95(1): 43, 97-100. Jan. 1949. 80 H81

17190 CHAPMAN-GILBERT COMPANY, INC. Success without soil! San Diego, 1948? 16 p. 90.15 C36

17191 CRISSY, MRS. J. C. Dioramas. Iowa State Hort. Soc. Proc. 82: 208-210. 1948. 81 Io9

17192 CROCE, F. M. La lucha contra las heladas por el agitación del aire. Vinos, Viñas y Frutas 44: 228-229. Nov. 1948. 9 Ag89

17193 DOUGLASS, J. Agriculture and food manufacturing. (Abs.) Austral. Food Manufacture 18(4): 18, 20. Nov. 5, 1948. 389.8 Au7  
Fruit and vegetable culture.

17194 ELLIOTT, D. A small garden: the story of how it was made. New Zeal. Gard. 5: 43-49. Sept. 1, 1948. 80 N4822

17195 FOSTER, W. E. Planting and pruning of trees and shrubs. Ontario Hort. Soc. Ann. Rpt. 1947: 40-41. 1948. 82 On825

17196 GODDARD, J. H. Preparing for the show. Amateur Gard. 65(3362): 13. Oct. 19, 1948. 80 Am13

17197 GUNNISON, O. M. Learning to garden. New York, Funk & Wagnalls, 1948. 388 p. 97 G95

17198 HAY, R. Garden wise. Young Farmer 16: 179-180. Nov./Dec. 1948. 10 Y8

17199 HILLS, L. D. How to make permanent seed-trays. Gard. Work Amateurs 69: 89. Oct. 23, 1948. 80 G1627

17200 HILLS, L. D. How to preserve wooden plant labels. Pop. Gard. 50: 320. Nov. 15, 1948. 80 G1622

17201 HITCHINS, P. E. N. Early planting makes soil heating worth while. Grower 30: 610-613. Oct. 16, 1948. 286.83 M34

17202 IOWA STATE HORTICULTURAL SOCIETY. Proceedings of the eighty-second annual convention, 1947. Des Moines, 1948. 326 p. 81 Io9

17203 KAVEN, G. Ausnutzung von kalthäusern. Thür. Gartenbau 1947(18): 4-5. Dec. 15, 1947. 80 T42

17204 KIND, W. Die erdtopfpresse zur mechanisierung der jungpflanzenanzucht. Deut. Bauerntech. 2(8): 5-12. Aug. 1948. 58.8 D48

17205 KOCH, H. G. Gartenbau und landeswetterdienst. Thür. Gartenbau 1947(7): 4-5. July 1, 1947. 80 T42

17206 KOCH, H. G. Wetter und ernte. Thür. Gartenbau 1947(8): 4-5. July 15, 1947. 80 T42

17207 LANE, J. A. Frost is likely to-night. Small-holder 80(2017): 8. Nov. 26, 1948. 10 Sm1  
Includes plant protection.

17208 LEDER, W. Kauf von obstäumen. Nach der Arbeit 21: 2-3. Oct. 12, 1948. 80 N11

17209 LEUTRITZ, F. Gartenbauliches aus dem benachbarten land Sachsen. Thür. Gartenbau 1947(10): 1-2. Aug. 15, 1947. 80 T42

17210 LLEWELLYN, W. W. Garden planning: watch the sun. Pop. Gard. 50: 311. Oct. 16, 1948. 80 G1622



- 17211 MAAN, W. J. Horticulture in French North Africa. (In Dutch.) *Groenten en Fruit* 4: 266, 279. Nov. 4-11, 1948. 80 G89
- 17212 MAAN, W. J. Horticulture in Morocco, Algiers and Tunis. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 11: 573-627. Sept. 1948. 86 N384
- 17213 MCFARLAND, J. H. Have you ever wondered what gardens mean to people? *Flower Grower* 35: 841, 860. Nov. 1948. 80 M72
- 17214 MIESSNER, E. Zur gärtnermeister-prüfung! *Thür. Gartenbau* 1947(9): 7-8. Aug. 1, 1947. 80 T42
- 17215 MÖSE, G. Altes und neues vom bauerngarten. *Bauern-Jahrb.* 1948: 59-61. 18 B322
- 17216 MULLARD, S. R. The use of "exflor" horticultural vermiculite for seeds and cuttings. *Cactus & Succulent J. Gt. Brit.* 10: 88. Oct. 1948. 450 C113
- 17217 ONTARIO HORTICULTURAL ASSOCIATION. 94th annual report of the horticultural societies, 1947. Toronto, 1948. 52 p. 82 On825
- 17218 PELLETT, F. C. Sixty years of Iowa Horticulture. *Iowa State Hort. Soc. Proc.* 82: 28-43. 1948. 81 Io9
- 17219 POPENOE, W. Valiosas enseñanzas sobre varios cultivos y conocidos y de otros nuevos. *Honduras Agr.* 4(40/46): 5-6. (Cont.) Mar./Sept. 1948. 6 H753
- 17220 PROCTER, G. C. Sub-irrigation sand culture. *Grower* 30: 685, 687. Oct. 23, 1948. 286.83M34  
Soilless culture.
- 17221 REICH, A. Gärten, nahrhaft und erfreulich. München, Münchner Verlag, 1948. 171 p. 90 R27
- 17222 SARRABAY, J. Au sujet de la greffe mayorquine. *Voix des Colons* 30(1473): 3; (1476): 3. (Concl.) Oct. 11, Nov. 1, 1948.
- 17223 SCHIRMACHER, K. Gartenkunst und landwirtschaftsgestaltung. *Thür. Gartenbau* 1947(9): 1. Aug. 1, 1947. 80 T42
- 17224 SCHMIDT, H. Saatgutsammlung - aber keine winkelbaumschule. *Gartenjahr* 3: 179. Nov. 1948. 80 G1932
- 17225 SCHMIDT, W. Zur neugestaltung der gärtnerischen berufsausbildung. *Gart.-Z. Illus. Flora* 71: 158-159. Nov. 1948. 80 G1991
- 17226 SROKA, K. H. Die berufskrankheiten des gärtners. *Gart.-Z. Illus. Flora* 71: 157-158. Nov. 1948. 80 G1991
- 17227 TEIXEIRA, A. J. DA S. Rothamsted Experiment Station. (In Portuguese.) *Rev. Agron. [Lisboa]* 35: 1-92. 1947. 15.5 R32
- 17228 TERRA, G. J. A. Horticulture. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. *De landbouw in de Indische Archipel. Deel IIA*, p. 622-746. Ref. 's-Gravenhage, 1948. 37 H14L
- 17229 WAGENINGEN. LANDBOUWHOOGESCHOOL. Instituut voor Plantenveredeling, Wageningen (Holland), centre of agricultural science, 1948. Wageningen? 1948. 44 p. 105.2 W1222W
- 17230 WEGER, N. Frostschutz durch bedeckung. *Saat u. Ernte* 2(10): 6. Oct. 1947. 18 Sa12
- 17231 WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Get your garden going. W. Va. Agr. Col. Ext. Gard. 1, 6 p.-folder. Feb. 1948. 275.28 G16
- 17232 WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Make your garden grow. W. Va. Agr. Col. Ext. Gard. 2, 6 p.-folder. Apr. 1948. 275.28 G16
- 17233 WHITEHEAD, E. L. An Oklahoma garden planning guide. *Okla. Agr. Col. Ext. C.* 487, 4 p. 1948? 275.29 Ok41C
- 17234 WRIGHT, R. Gardening advances on five important fronts. *House & Gard.* 95(1): 30. Jan. 1949. 80 H81
- Fruits--General
- 17235 BERTHAULT, P. La vocation arboricole de l'Algérie. *Rev. Agr. de l'Afrique du Nord* 46: 572-573. Nov. 19, 1948. 80 R326
- 17236 BEVILACQUA, I. Fruit culture. II. (In Italian.) *Campagnolo* (1948) 11: 3-4. Nov. 1, 1948. 16 C15
- 17237 BOHL, C. Propagación de frutales de carozo o hueso. *Serv. Coop. Interamér. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 14: 27-29. (Cont.) July 1948. 9.8 P4352
- 17238 BRECEY, J. Pour obtenir la fructification des arbres rebelles. *Monit. Agr.* 1(46): 12. Nov. 28, 1948. 14 M744
- 17239 BUSCH, E. A. Der obstbaumpfahl schädlingfrei. *Obst- u. Gartenbau* 3: 61. Oct. 1, 1948. 80 Ob72
- 17240 BUSH, R. Drawbacks of the fruit cage. *Amateur Gard.* 65(3362): 16. Oct. 19, 1948. 80 Am13
- 17241 BUSH, R. The theory of frost pockets. *Grower* 30: 529, 531. (To be cont.) Oct. 2, 1948. 286.83 M34  
Effect on fruit culture.
- 17242 CROCE, F. M. La pulveración de las flores para ralea la fruta. *Rev. Mens. Ilus. B. A. P.* 1948: 7, 10-13. Sept. 1948. 9 R326
- 17243 CUNY. Le problème de la forme dans les cultures fruitières intensives. *Jard. de France (ser. 7)* 2: 199-208. (To be cont.) Sept./Oct. 1948. 86 So13
- 17244 DARRAULT, G. Quelles formes d'arbres fruitiers faut-il choisir? *J. de la France Agr.* 4: 993. Dec. 3/9, 1948. 14 J829
- 17245 DEBOR, H. W. Gründliches auslichten erhöht die erträge unserer obstbäume. *Gartenjahr* 3: 153-155. Oct. 1948. 80 G1932
- 17246 DELPLACE, E. Est-il vraiment utile de tailler les arbres fruitiers? *Acclimatation* 75: 230. Oct. 30, 1948. 14 Ac2
- 17247 DENOZIERE. La plantation des arbres fruitiers. *Rev. Agr. de l'Afrique du Nord* 46: 531-532. Oct. 22, 1948. 80 R326
- 17248 DREISEITL, H. Der laubfall bei unseren obstbäumen. *Salzburg. Bauer* 3(49): 3. Dec. 2, 1948. 19 Sa3
- 17249 DUBOIS, R. Taille et traitement d'hiver des arbres fruitiers. *Moisson* 4(167): 1. Nov. 26, 1948. 14 M72
- 17250 DUCURTIL, F. Variété. *Colon. Franç. de Tunisie* 58(2078): 1-2. Dec. 18, 1948. 24 C712  
Fruit.
- 17251 DUNN, R. G. Performance of new fruit varieties in southern Minnesota. *Iowa State Hort. Soc. Proc.* 82: 128-133. 1948. 81 Io9
- 17252 FELIGONDE, M. DE. Monographie d'une exploitation fruitière d'Eure-et-Loir. *Défense Agr. de la Beauce et du Perche* 45: 291-293. Nov. 1, 1948. 14 D36  
Culture chiefly.
- 17253 FERRAGUTI, M. Pruning and related things. (In Italian.) *Mezzogiorno Agr.* 3(15): 3. Apr. 13, 1947. 16 M57  
Need for clarity in writing about pruning.
- 17254 FERRAGUTI, M. Pruning of pruning treatises. (In Italian.) *Mezzogiorno Agr.* 3(14): 3. Apr. 6, 1947. 16 M57
- 17255 GLEESON, D. Fruit growing for profit; world scarcity has created an opportunity for the Irish farmer. *Beet Grower* 2: 306-308. Oct. 1948. 66.8 B392
- 17256 HAGGARD, A. A speedy [fruit] pruning pick-up. *Grower* 30: 876-877. Nov. 20, 1948. 286.83 M34
- 17257 HEINRICHS, P. Baumbesitz verpflichtet! *Gartenjahr* 3: 147-150. Oct. 1948. 80 G1932
- 17258 HERRMANN, W. Zur frage der stammbildner. *Obst- u. Gartenbau* 3: 60-61. Oct. 1, 1948. 80 Ob72
- 17259 HOLMES, G. Winter work in orchards. *Mod. Poultry Keeping* 59: 594. Dec. 8, 1948. 47.8 Eg3
- 17260 HUME, A. P. Shall we prune this year? *Amateur Gard.* 65(3361): 16-17. Oct. 12, 1948. 80 Am13
- 17261 JOUGAN, E. Faut-il planter des arbres fruitiers à hautes-tiges ou à demi-tiges? *Acclimatation* 75: 224. Oct. 23, 1948. 14 Ac2
- 17262 JOUGAN, E. Palmettes horizontales, obliques ou verticales: que faut-il choisir? *Acclimatation* 75: 245. Nov. 20, 1948. 14 Ac2  
In fruit culture.
- 17263 KALTENBACH, R. G. Création d'un nouveau verger: le choix du porte-greffe. *Terre* 213: 1, 3. (To be cont.) Nov. 11/17, 1948. 281.8 T27
- 17264 KAVEN. Obstbauliche arbeiten. *Land, Wald u. Garten* 3: 17-18. Jan. 1948. 18 L22
- 17265 KEMMER, E. Einheitliche begriffsfestlegung bei den obstbaulichen anbauförmern. *Neue Berlin. Gart.-Börse* 1: 77. Dec. 10, 1947. 80 N393



17266 KEMMER, E. Die kernobstunterlagen. Ed. 4. Berlin. U. Inst. f. Obstbau. Merkbl. 4: 1-20. Apr. 1948. 93.6 B45

17267 KNOWLES, K. S. Training fruit trees. Pop. Gard. 50: 360, 362. Nov. 20, 1948. 80 G1622

17268 LANTZ, H. L. A fifteen year production record for a topworked orchard. Iowa State Hort. Soc. Proc. 82: 107-110. 1948. 81 Io9  
Discussion, p. 110-112.

17269 LARUE, P. Assemblage de la charpente. Arbres et Fruits 32: 28. Oct. 1948. 80 Ar1  
Pruning.

17270 LEPAGE, P. Comment cueillir et traiter les fruits de choix? Vie à la Campagne 37: 293-294. Oct. 1948. 80 V67

17271 LIEBSTER. Mehr vielseitigkeit im obstbau! Landwirtschaftsblatt Weser-Ems 95: 223. Oct. 30, 1948. 18 L2345

17272 LITTLE, J. A home orchard; how to plant and manage your own. Ala. Farmer 27(4): 8, 16-18. Jan. 1949. 276.8 AL1

17273 LOUVAIN, P. Ceux qui ne taillent pas. Réveil Agr. 57: 341. Nov. 15, 1948. 14 R322  
Fruit.

17274 MARINUCCI, M. The technique of fruit planting. Above all the climatic milieu. II. (In Italian.) Gior. di Agr. 58: 285. Oct. 17, 1948. 16 It1G

17275 MARTIN, R. Warum und wie auslichten? Gartenjahr 3: 174-177. Nov. 1948. 80 G1932

17276 MAURER, K. J. Einiges über trocken- und hitzenotstände im obstbau. Land, Wald u. Garten 3: 144-145. (To be cont.) June 1948. 18 L22

17277 MAURER, K. J. Grundsätzliches zum problem der sämlingsunterlage. Land, Wald u. Garten 2: 368-369. Dec. 1947. 18 L22  
Fruit varieties.

17278 MAURER, K. J. Müssen obstgehölze frostsicher sein? Thür. Gartenbau 1947(18): 2. Dec. 15, 1947. 80 T42

17279 MAURER, K. J. Sind samenspenderanlagen notwendig? Gartenjahr 3: 155-157. Oct. 1948. 80 G1932

17280 MAURER, K. J. Der wind, seine wirkungen und windschutzpflanzungen im obstbau. Obst- u. Gartenbau 3: 58-59. Oct. 1, 1948. 80 Ob72

17281 MAURER, K. J. Zwischenveredlungen beheben klimaschwierigkeiten. Land, Wald u. Garten 3: 14-15. Jan. 1948. 18 L22

17282 MÖSE, G. Vernachlässigte obstbäume und ihre behandlung. Bauern-Jahrb. 1948: 79-80. 18 B322

17283 NEL, R. I. Improving the fruit industry. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 56, 10 p. Feb. 1947. 87 St3

17284 NICHOLS, H. E. Iowa fruit variety survey: grapes, cherries, plums. Iowa State Hort. Soc. Proc. 82: 70-75. 1948. 81 Io9  
Discussion, p. 75-76.

17285 NISWONGER, H. R. Budding and grafting fruit trees. N. C. Agr. Col. Ext. C. 326, 11 p. Oct. 1948. 275.29 N811

17286 NOWAK, J. Wie erreicht man regelmässig qualitätobsternten? Berufs Gärt. 1(6): 1-2. June 1948. 80 B463

17287 PECK, H. L. Lessons for Britain in Dutch methods of commercial fruit production. Smallholder 80(2018): 14-15. Dec. 3, 1948. 10 Sml

17288 PIQUER, G. Le climat et les arbres fruitiers. Fruit Belge 16: 164-168. (Cont.) Nov. 1948. 80 F9493

17289 RENAUD, M. Quelques arbres fruitiers à planter en culture sèche dans les zones présahariennes. Colon. Franç. de Tunisie 58(2076): 2. Dec. 4, 1948. 24 C712

17290 RICKERT. Meine beobachtungen über frostharte stammbildner. Thür. Gartenbau 1947(8): 6. July 15, 1947. 80 T42

17291 ROGENT, I. Influencia del medio en fruticultura. Cult. Mod. 31: 382. Oct. 1948. 15 C89

17292 ROSAND, J. Sachez distinguer un porte-greffe. Réveil Agr. 57: 341. Nov. 15, 1948. 14 R322  
Fruit.

17293 SCHÜLE, H. Fruchtriebart bei kernobst in beziehung zur ertragsregelmässigkeit. Obst- u. Gartenbau 3: 57-58. Oct. 1, 1948. 80 Ob72

17294 STEINBERG, B. Comment planter, tailler, "former" les arbres d'un verger. Vie Agr. 3(68): 6. Feb. 6/13, 1947. 14 V673

17295 VAHL, E. V. Ist die vermehrung unserer obstsorten durch aussaat neu? Obst- u. Gartenbau 3: 66. Nov. 1, 1948. 80 Ob72

17296 VINKENVLEUGEL, J. New bean varieties. (In Dutch.) Boer en Tuinder 2(96): 3. Nov. 6, 1948. 12 B632

17297 WERTH. Erfahrungen über das gedeihen der apfelbäume im moor. Land, Wald u. Garten 3: 64. Mar. 1948. 18 L22

17298 WHITEHEAD, S. B. Why fruit trees fail to crop. Pop. Gard. 50: 367. Nov. 27, 1948. 80 G1622

17299 ZITZEWITZ, W. Der spindelbusch im kleingarten! Gart.-Z. Illus. Flora 71: 129-131. Sept. 1948. 80 G1991

#### Fruits--Citrus and Subtropical

17300 AMARGOS, J. L. La reproducción agámica del naranjo. Agronomía [Habana] 8(8): 11-14. Aug. 1948. 8 C893

17301 BARNETT, G. B. Banana culture in Western Australia. West. Austral. Dept. Agr. Leaflet 889, 61 p. 1947. 23 W52B

17302 BLONDEL, L. Espèces et variétés d'agrumes à planter en 1949. Colon. Franç. de Tunisie 58(2076): 1-2. Dec. 4, 1948. 24 C712

17303 BLONDEL, L. Les variétés tardives d'oranges. Voix des Colons 30(1478): 3. Nov. 15, 1948. 24 V85

17304 BOHL, C. El cultivo del plátano. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr. 14: 31-33. (Cont.) July 1948. 9.8 P4352

17305 CALAVO GROWERS OF CALIFORNIA. 25 years of working together; 25th annual report, September 30, 1948. n. p., 1948. 40 p. 81 C1282

17306 CHACON BERMUDEZ, J. La famosa naranja "Kotidiana." Honduras Agr. 4(40/46): 1. Mar./Sept. 1948. 6 H753

17307 COLLINS, J. L. Early history of the pineapple. (Abs.) Hawaiian Acad. Sci. Proc. (1947/48)23: 4. 1948. 500 H31A

17308 CONDIT, I. J. Figs—facts and figures of 1948. Econ. Bot. 2: 403-418. Oct./Dec. 1948. 450 Ec7

17309 DU PREEZ, D. The avocado in the Western Cape Province. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 67, 7 p. Jan. 1948. 87 St3

17310 GONZALEZ LIMA, D. Obtención de frutos con muy pocas semillas en la Carica papaya (fruta bomba). Agronomía [Habana] 8(9): 11. Sept. 1948. 8 C893

17311 KAO, W. P. Cultivation of date palms in Sincheng, Honan. (In Chinese.) Monthly Farmers' Bank China 9(6): 50-53. June 1948. 281.9 F225M

17312 KEBBY, R. G. Development of young citrus groves; sound management in early years is vital to success. Agr. Gaz. N. S. Wales 59: 459-462. Sept. 1948. 23 N472

17313 MALAN, E. F. Grenadilla production. Farming So. Africa 23: 625-626. Sept. 1948. 24 So842

17314 MORTENSEN, E. Date culture in Texas. (In Portuguese.) Fazenda 43(11): 44-45. Nov. 1948. 6 H11P

17315 MOSCRIP, J. Citrus, the fruit of romance, in ancient and modern times. Tex. Farming & Citric 25(5): 21-22. Nov. 1948. 80 T31

17316 ROA URLARTE, E. En el Estado de la Flórida, U. S. A., se realizan interesantes experimentos con el propósito de mejorar la calidad de la naranja. Agronomía [Habana] 8(11): 26. Nov. 1948. 8 C893

17317 U. S. PATENT OFF. Plant patent 816. Hamburg, C. H. Avocado tree. 2 p., 1 col. pl. Dec. 28, 1948. 156.65 P69

17318 WELCH, J. H. Citrus development in the winter garden uplands. Tex. Farming & Citric. 25(6): 9. Dec. 1948. 80 T31

#### Fruits--Deciduous

17319 BALOG, P. P. El momento óptimo de cosecha para manzanas destinadas a frigorífico. Rev. Mens. Ilus. B. A. P. 1948: 14, 16-18. Sept. 1948. 9 R326



- 17320 BARKER, B. T. P. Cider varieties recommended for post-war planting. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 19-22. 84 B77
- 17321 BARKER, B. T. P., HOBBS, E. W., and KEARNS, H. G. H. The commercial growing of cider fruit in bush tree plantations. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 22-32. 84 B77
- 17322 BENEDICT, W. G. In the pawpaw patch. O. A. C. Rev. 61: 132-133. Dec. 1948. 276.8 On8  
The pawpaw tree.
- 17323 BLACK, M. W. Deciduous fruit varieties for the Western Cape Province. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 57, 12 p. Aug. 1947. 87 St3
- 17324 BONIFACIO, P. A vigorous graft for the peach: the "refined" almond. (In Italian.) Gior. di Agr. 58: 357. Dec. 19, 1948. 16 It1G
- 17325 BOWLES, E. J. Budding of deciduous fruit. Calif. Fruit & Grape Grower 2(9): 11-12. Sept. 1948. 95.8 G762
- 17326 CLARK, R. M. Eastern apple orchard methods compared with those used in Iowa. Iowa State Hort. Soc. Proc. 82: 120-128. 1948. 81 Io9
- 17327 COCKLE, F. G. Cherries as cordons. Pop. Gard. 50: 320. Nov. 15, 1948. 80 G1622
- 17328 COOK, L. Some good dessert pears. Amateur Gard. 65(3366): 20. Nov. 16, 1948. 80 Am13
- 17329 DE WET, A. F., and CONRADIE, W. J. Pruning experiments with winter Nelis pears. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 59, 5 p. July 1947. 87 St3
- 17330 ELLENWOOD, C. W. Growers change ideas about apple varieties. Ohio Farmer 202(12): 30. Dec. 18, 1948. 6 Oh3
- 17331 EVISON, J. R. B. Crab apples for colour. Amateur Gard. 65(3363): 12. Oct. 26, 1948. 80 Am13
- 17332 GENTILE, G. A new variety of peach: the "G. 1." (In Italian.) Mezzogiorno Agr. 4(41): 3. Oct. 31, 1948. 16 M57
- 17333 HAUGE, A. J. New early peach variety. Calif. Fruit & Grape Grower 2(9): 8. Sept. 1948. 95.8 G762
- 17334 JOUGAN, E. Les meilleures pêches pour le plein-vent et l'espalier. Acclimatation 75: 274. Dec. 25, 1948. 14 Ac2
- 17335 KRÜMMEL, H. Ein vorschlag zur berichtigung und vereinheitlichung der kirschwochen. Thür. Gartenbau 1947(10): 4-5. Aug. 15, 1947. 80 T42
- 17336 LANGEVIN, E. Un excellent fruit d'hiver: la poire Passe-Crassane. Rustica 21: 895. Dec. 12, 1948. 14 R92
- 17337 LOUVAIN, P. Pour réussir la culture de l'abricotier. Réveil Agr. 57: 292-293. Oct. 1, 1948. 14 R322
- 17338 MARTIN, K. Welche pfirsich-unterlage? Gartenjahr 3: 150-153. Oct. 1948. 80 G1932
- 17339 MAURER, K. J. Linda—eine frostresistente apfelsorte. Land, Wald u. Garten 3: 118. May 1948. 18 L22
- 17340 METZNER. Die vegetativen apfel- und birnenunterlagen und ihre verwendungsmöglichkeiten im gartenobstbau. Land, Wald u. Garten 3: 117. May 1948. 18 L22
- 17341 MULDER, A. VAN. Planting fruit trees. (In Flemish.) Cult. en Handel 14: 775-776. Dec. 1948. 80 C892
- 17342 NEW JERSEY. DEPT. OF AGRICULTURE. Results of a survey of the apple tree population in New Jersey during 1946. N. J. Dept. Agr. C. 373, 53 p. Feb. 1948. 2 N46C
- 17343 NIVEN, L. A. New and better peaches. Prog. Farmer, Miss.-Ark.-La. Ed. 63(11): 64. Nov. 1948. 6 So81
- 17344 PRETTYMAN, H. W. Growing cherries in West Virginia. Mountaineer Grower 18(173): 3-6. Nov. 1948. 80 M86
- 17345 RATH. Die herbstveredlung des kirschbaumes. Gart.-Z. Illus. Flora 71: 129. Sept. 1948. 80 G1991
- 17346 ROSAND, J. Quelques remarques sur les variétés d'abricotiers. Réveil Agr. 57: 356. Dec. 1, 1948. 14 R322
- 17347 SHEWELL-COOPER, W. E. Forget what an apple tree ought to look like. Smallholder 80(2016): 13. Nov. 19, 1948. 10 Sm1  
Modern pruning methods.
- 17348 SHEWELL-COOPER, W. E. The pruning of standard [apple] trees. Smallholder 80(2018): 13. Dec. 3, 1948. 10 Sm1
- 17349 SIDWELL, R. W. Morello cherries. Amateur Gard. 65(3362): 16. Oct. 19, 1948. 80 Am13
- 17350 SMITH, G. M. Flowering crab apples add beauty to spring gardens. House & Gard. 95(1): 34, 94-96. Jan. 1949. 80 H81
- 17351 STANTON, W. R. The production of cider fruit on bush trees: observations on yields, 1941-47. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 32-35. 84 B77
- 17352 SWERTS, E. Apple Meekers; much grafted on account of health of wood, leaf and fruit. (In Flemish.) Cult. en Handel 14: 777-778. Dec. 1948. 80 C892
- 17353 TUNEU, R. La polenización del manzano Delicious. Uruguay. Min. de Ganad. y Agr. B. Inform. 242: 2. Oct. 28, 1948. 9.9 G15B
- 17354 U. S. PATENT OFF. Plant patents. 3 Nos. 1948. 156.65 P69  
Contents: 808. Francisco, M. E. Apricot tree. 3 p., 1 col. pl. Oct. 12; 813. Satterfield, L. Peach tree. 1 p., 1 col. pl. Dec. 7; 814. Jones, O. F., and Jones, W. C. Peach tree. 2 p., 1 pl. Dec. 14.
- 17355 VAHL, E. VON. Anbauwürdige apfelsorten für den landhaushalt. Land u. Frau 28(2): 3-4. Aug. 14, 1948. 18 D482L
- 17356 WHITEHEAD, S. B. How to prevent biennial cropping of apple trees. Pop. Gard. 50: 390. Dec. 11, 1948. 80 G1622
- 17357 ZWEIFLER, B. Rückschnitt und kultur des pfirsich- und des weichselbaumes. Gart.-Z. Illus. Flora 71: 160. Nov. 1948. 80 G1991

## Fruits--Small

- 17358 BAGENAL, N. B. Malling promises better varieties; a southerner reviews Scottish raspberry growing. Grower 30: 679, 681. Oct. 23, 1948. 286.83 M34
- 17359 BASTELEUS, R. Good grapes commend themselves. (In Flemish.) Cult. en Handel 14: 770-773. Dec. 1948. 80 C892
- 17360 BAUER, W. Kleine rebsortenkunde unter besonderer berücksichtigung der in Österreich verbreiteten unterlagsreben, kelter- und tafeltrauben. Österr. Weintztg. 3: 384, 401. Nov. 20-Dec. 4, 1948. 390.8 Os7
- 17361 BRANAS, J. Plants d'élite. Prog. Agr. et Vitic. 1948: 246-250. Nov. 7/14, 1948. 14 P94  
Grapes.
- 17362 BRECEY, J. Sachez cultiver le framboisier. Monit. Agr. 1(40): 13. Oct. 17, 1948. 14 M77
- 17363 BREIDER. Les problèmes de la sélection de la vigne dans la zone française. Off. Internatl. du Vin. B. 21(212): 34-40. Oct. 1948. 390.8 B87
- 17364 BROWN, H. C. Jefferson County strawberry tests, 1948. Ky. Agr. Expt. Sta. Ky. Fruit Notes 3(6): 5-6. Oct. 1948. 100 K41K  
Chiefly variety tests.
- 17365 BRYAN, J. D., and POLLARD, A. The effect of manurial treatment on the composition of blackcurrants. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 216-221. 84 B77
- 17366 CAMPOS, J. A. El frambueso. Pampa Argentina 22(255): 6-7. Nov. 1948. 9 P19
- 17367 CARDONNE, P. Deux pratiques condamnables dans le vignoble. Colon. Franç. de Tunisie 58(2076): 4. Dec. 4, 1948. 24 C712
- 17368 CASTELLINI, A. Better grapes for Tuscany. (In Italian.) Agr. Tosc. 3: 337-340. Nov. 1948. 16 Ag827
- 17369 CHAMINADE. La reconstitution du vignoble. Monit. Agr. 1(45): 7. Nov. 21, 1948. 14 M744
- 17370 CHARLES, G. Essai de contrôle de maturité en Beaujolais. Bourguignon Vitic. 46: 1-2. Sept. 1948. 95.8 B66
- 17371 CROCE, F. M. El raleo de las uvas de mesa; raleo de racimos. Rev. Mens. Ilus. B. A. P. 31(372): 10-12, 51-53. Nov. 1948. 9 R326



- 17372 DALMASSO, G. The maturation of table grapes. (In Italian.) *Gior. di Agr.* 58: 328. Nov. 21, 1948. 16 It1G  
Reply by D. Guzzini, p. 328.
- 17373 DARROW, G. M., and others. Report for 1946-47 on strawberry breeding for red stele resistance. *Peninsula Hort. Soc. Trans.* 61: 13-19. 1947. 81 P37  
D. H. Scott, G. F. Waldo, W. F. Jeffers, D. P. Ink, and J. B. Demaree, joint authors.
- 17374 DARROW, G. M., and WALDO, G. F. Strawberry culture, western United States. U. S. D. A. Farmers' B. 1027, rev., 26 p. Nov. 1948. 1 Ag84F
- 17375 DU COURTIL, C., and FORTIER, G. Préparez la production des fraises de primeurs. *Vie à la Campagne* 37: 296-298. Oct. 1948. 80 V67
- 17376 DU PLESSIS, S. J. Supply of certified vineyard stocks. (In Afrikaans.) *Wynboer* 17(205): 45-46. Oct. 1948. 290.8 W724  
Union of South Africa.
- 17377 EGGERT, R. Some new methods in strawberry production. *Iowa State Hort. Soc. Proc.* 82: 65-68. 1948. 81 Io9  
Discussion, p. 68-69.
- 17378 FOUILLAND, G. Après les vendanges. *Bouches du Rhone Agr.* 21(990): 11. Nov. 15, 1948. 14 B662  
Viticulture.  
Also in *Réveil Agr.* 57: 340. Nov. 15, 1948. 14 R322
- 17379 GLEISBERG, H. Der winterschnitt, eine wichtige aufgabe der maulbeerkultur. *Thür. Gartenbau* 1947(18): 6. Dec. 15, 1947. 80 T42
- 17380 HAUVILLE, A. Les pruniers japonais. *Rev. Hort. de l'Algérie* 52(7): 24-27. Aug./Sept. 1948. 87 R32
- 17381 HOBBS, E. W. The management and cropping of black-currant plantations at Long Ashton and in the south-west. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 43-52. 84 B77
- 17382 HUGHES, H. M. Hints on pruning black currants. *Amateur Gard.* 65(3363): 19. Oct. 26, 1948. 30 Am13
- 17383 HUME, A. P. Raspberry propagation. *Amateur Gard.* 65(3363): 19. Oct. 26, 1948. 80 Am13
- 17384 HUSFELD. La sélection de la vigne. *Off. Internatl. du Vin.* B. 21(212): 40-44. Oct. 1948. 390.8 B87
- 17385 JAKOVLIV, G. Considérations sur la valeur et l'utilisation de nos fruits: les fraises. *Fruit Belge* 16: 161-164. Nov. 1948. 80 F9493
- 17386 KLENK, E., NAGY, J., and RIEDE, P. Künstliche beregnung von rebkulturen. *Württemb. Lehr-u. Versuchsanst. f. Wein-u. Obstbau. Mitt.* 1, 22 p. July 1948. 95.9 W43
- 17387 KRONENBERG, H. G., and NANNENGA, E. T. Raspberry varieties. (In Dutch.) *Groenten en Fruit* 4: 281. Nov. 11, 1948. 80 G89
- 17388 LACY, F. H. Mulching strawberries—why and how. *Rural New-Yorker* 98: 764. Dec. 18, 1948. 6 R88
- 17389 LAFON, J. Rôle de la station viticole de Cognac. *Agr. Charentais* 3(9): 4. Oct. 1948. 14 Ag825
- 17390 LARREA, A. La poda de la vid. *Vinos, Vinas y Frutas* 44: 183-186. Oct. 1948. 9 Ag89  
Also in *Bolsa de Com., Rosario. Rev.* 36(884): 17-20. Nov. 15, 1948. 287 R71
- 17391 LEBLOND, F. De la taille de la vigne dépend la productivité et l'avenir du vignoble. *Vie Agr.* 3(68): 16. Feb. 6/13, 1947. 14 V673
- 17392 LE ROUX, M. S. Yema graft of the vine. *West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser.* 64, 5 p. May 1947. 87 St3
- 17393 LEVADOUX, L. Note sur la viticulture du département de la Corse. *Prog. Agr. et Vitic.* 1948: 250-259. Nov. 7/14, 1948. 14 P94
- 17394 LEYVRAZ, H. L'encépagement du vignoble romand et la culture des variétés à raisins rouges de cuve. *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 4: 67-69. (Cont.) Sept. 1948. 17 J82A
- 17395 LLOBREGAT, E. Plantación de la viña. *Vinos, Vinas y Frutas* 44: 227-228. Nov. 1948. 9 Ag89
- 17396 LYON, A. V. The fruit shoots of the sultana. *Austral. Dried Fruits News* 24(5): 6. Oct. 1948. 286.83 Au72  
Pruning.
- 17397 LYON, A. V. Training young vines. *Austral. Dried Fruits News* 24(4): 14. Aug. 1948. 286.83 Au72
- 17398 MARQUIS, C. A propos des hybrides. *Vaucluse Agr.* 4(80): 13. Dec. 1, 1948. 14 V26  
Grapes.
- 17399 MENON, H. B. El cultivo de la fresa. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 39(179): 7-9, 27. July/Aug. 1948. 8 R323
- 17400 MESTRE, A. Consejos prácticos. *Cult. Mod.* 31: 378-379. Oct. 1948. 15 C89  
Viticulture.
- 17401 PALIERI, G. The polemic expands: more on green pruning of grapes. (In Italian.) *Gior. di Agr.* 58: 325. Nov. 21, 1948. 16 It1G
- 17402 PEYRONNET, R. Le développement des hybrides en Algérie. I-IV. *Rev. Agr. de l'Afrique du Nord* 46: 550-552, 562-563, 578-580, 589-591. Nov. 5-26, 1948. 80 R326  
Grapes.
- 17403 RATH. Edelreben oder direkträger? *Gart.-Z. Illus. Flora* 71: 131-134. Sept. 1948. 80 G1991
- 17404 REMPT, J. D. Grape culture in Belgium. (In Dutch.) *Groenten en Fruit* 4: 278. Nov. 11, 1948. 80 G89
- 17405 ROLET, R. Que faut-il penser de la culture des hybrides? *Terre* 214: 1, 3. Nov. 18/24, 1948. 281.8 T27  
Grapes.
- 17406 ROMANINI, A. First care of newly planted vineyards. (In Italian.) *Avvenire Agr.* 56: 176-177. Aug. 1948. 16 Av9
- 17407 RUI, D. Resistance of vine cuttings to low temperatures. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2: 457-467. 1948. 16 An76  
English summary.
- 17408 SHEWELL-COOPER, W. E. Soft fruits are so useful! *New Health* 23(12): 10. Dec. 1948. 449.8 N45
- 17409 SIMONET, J. La vendimia. *Balearic Isl. Diputación Prov. B. de Agr.* 48: 5. Sept. 1948. 15 B19
- 17410 SPINKS, G. T. Black currant breeding at Long Ashton. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 35-43. 84 B77
- 17411 TOMALIN, T. E. Bush and cane fruits. *Pop. Gard.* 50: 300. Oct. 9, 1948. 80 G1622
- 17412 VIDAL MORA, J. M. En pro de la reconstrucción de viñedos. *Balearic Isl. Diputación Prov. B. de Agr.* 48: 11. Sept. 1948. 15 B19
- 17413 WARDELL, A. L. Raising currants and gooseberries from cuttings. *Pop. Gard.* 50: 301. Oct. 9, 1948. 80 G1622
- 17414 ZHITNEVA, P. I. Biological principles of pruning currants. (In Russian.) *Moskov. Ordena Lenina im. K. A. Timirfazeva. Dok.* 7: 108-114. 1948. 20 M857

## Nuts

- 17415 BERHOW, S. Cleaning black walnuts. *Iowa State Hort. Soc. Proc.* 82: 143-144. 1948. 81 Io9
- 17416 ESTRADA, M. El cultivo del nogal, obstáculos a su implantación en la Argentina. *Corp. Fruticola Argentina. Rev. Gremial* 14(164): 25-29. Aug. 31, 1948. 83 C81
- 17417 EVREINOFF, V. A. Le chataigner du Japon. *Terre d'Occ.* 30: 201-203. May 1948. 14 Ar5
- 17418 RATH, I. Pflanz nussbäume! *Gart.-Z. Illus. Flora* 71: 160-161. Nov. 1948. 80 G1991
- 17419 U. S. PATENT OFF. Plant patent 815. Benton, W. A., and Smith, G. L. English or Persian walnut tree. 1 p., 1 col. pl. Dec. 14, 1948. 156.65 P69
- 17420 WILKINSON, J. F. Varieties of pecans for the North. *Iowa State Hort. Soc. Proc.* 82: 144-147. 1948. 81 Io9

## Shade Trees and Ornamental Plants

- 17421 ADAMS, H. Growing Chrysanthemums for profit. *Poultry [London]* 103: 395. Nov. 16, 1948. 47.8 P869
- 17422 AKKER, C. VAN DEN. Streptocarpus, an old pot plant. (In Flemish.) *Cult. en Handel* 14: 709. Nov. 1948. 80 C892
- 17423 ALLEN, R. T. Modern trends in rose growing. (Extracts.) *Green Thumb* 5(11): 19. Nov. 1948. 80 G82



- 17424 AMARGOS, J. L. El cultivo de la malanga. *Agronomia [Habana]* 8(11): 22-24. Nov. 1948. 8 C893
- 17425 ANDERSON, A. W. The herbaceous border. *New Zeal. Gard.* 5: 28-31. Sept. 1, 1948. 80 N4822
- 17426 ANDERSON, A. W. The romance of the blue orchid [*Vanda coerulea*]. *New Zeal. Gard.* 5: 31-32. Sept. 1, 1948. 80 N4822
- 17427 ANDERSON, E. Prince Maximilian's sunflower. *Mo. Bot. Gard. B.* 36: 173. Dec. 1948. 451 M69B
- 17428 ANDREWS, D. M. A summertime snowbank. *Green Thumb* 5(11): 4-8. Nov. 1948. 80 G82  
Alpine plants.
- 17429 ARRONIZ, C. Cultivo de flores: los Crisántemos. *Siembra* 1948(8/9): 8-12. Aug./Sept. 1948. 15 S11
- 17430 BANKS, W. *Convolvulus* for next year's bedding. *Nature Lover* 5: 490-492. Nov. 1948. 410 N218
- 17431 BANKS, W. A lovely climber, *Polygonum baldschuanicum*. *Nature Lover* 5: 444, 447. Oct. 1948. 410 N218
- 17432 BEYRER, W. H. House plants. *Minn. Hort.* 76(9): 139. Nov. 1948. 81 M66
- 17433 BHANDALL, B. Landscaping of homes. *Indian Farming* 8: 276-279. June 1947. 22 In283
- 17434 BIDDLE, D., and BLOM, B. *Chrysanthemums* for tea! *Flower Grower* 35: 832. Nov. 1948. 80 M72
- 17435 BIRCH, C. H. Variety notes—1948. *North Amer. Gladiolus Council. B.* 16: 31. Dec. 1948. 96.43 N81
- 17436 BLACKBURN, B. Plant for permanence, highbush blueberry. *Flower Grower* 35: 822-823. Nov. 1948. 80 M72
- 17437 BLIN, H. Comment on obtient des giroflées a fleurs doubles. *Acclimatation* 75: 225. Oct. 23, 1948. 14 Ac2  
*Mathiola incana*.
- 17438 BLIN, H. Le jardin de plantes vivaces. *Rev. Hort. de l'Algérie* 52(7): 35-36. Aug./Sept. 1948. 87 R32
- 17439 BLIN, H. Pour former des massifs de tulipes. *Acclimatation* 75: 246. Nov. 20, 1948. 14 Ac2
- 17440 BOECKEL, G. Window garden protector. *Back to Eden* 15(3): 8. Nov. 1948. 80 B12
- 17441 BOER, H. W. DE. *Frithia pulchra* N. E. Br. (In Dutch.) *Succulenta* 1948(6): 81-83. Nov./Dec. 1948. 450 Su12
- 17442 BOER, H. W. DE. *Lithops gracilidelineata* Dtr. (In Dutch.) *Succulenta* 1948(5): 61-62. Sept./Oct. 1948. 450 Su12
- 17443 BROOKE, W. M. A. Some South African succulents. *Cactus & Succulent J. Gt. Brit.* 10: 76-77. Oct. 1948. 450 C113
- 17444 BRUMMEL, G. DE. Une cour-jardin d'encadrement. *Vie à la Campagne* 37: 338-339. Nov. 1948. 80 V67
- 17445 BULLINGTON, E., and MIKELSON, M. G. Cactus hunting in New Mexico. (In Dutch.) *Succulenta* 1948(5): 67-69. Sept./Oct. 1948. 450 Su12
- 17446 BURDEN, W. H. Next season's Begonias. *Amateur Gard.* 65(3363): 13. Oct. 26, 1948. 80 Am13
- 17447 BURSTON, J. Flower show management and hints to exhibitors. *Ontario Hort. Socs. Ann. Rpt.* 1947: 47-48. 1948. 82 On825
- 17448 BUSHNELL, M. Foliage in flower arrangements. *Golden Gardens* 13: 45, 50. Dec. 1948. 80 G56
- 17449 BUTTERFIELD, H. M. B. fuchsoides. *Begonian* 15: 277. Dec. 1948. 96.511 B39
- 17450 BUZARD, H. G. House plants—a hobby. *Northwest Gard. & Homes* 16(9): 6, 34. Nov. 1948. 80 N813
- 17451 CALDWELL, S. Y. Down-to-earth facts about the roof Iris. *Amer. Iris Soc. B.* 111: 69-76. Oct. 1948. 81 Am39
- 17452 CAMPBELL, N. Colorful ground-covers. *Golden Gardens* 13: 46, 53. Dec. 1948. 80 G56
- 17453 CASON, J. F. Fifth annual "best three" in each color class. *North Amer. Gladiolus Council. B.* 16: 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29. Dec. 1948. 96.43 N81
- 17454 CATCHPOLE, N. Planning and planting a shrub border. *Amateur Gard.* 65(3366): 14-15. Nov. 16, 1948. 80 Am13
- 17455 CHALONER, E. Pyrethrum in an English garden, the double role flower. *Pyrethrum Post* 1(2): 29-30. Oct. 1948. 421 P99
- 17456 CHANSLER, W. S. Great mullein. *Wild Flower* 24: 81-82. Oct. 1948. 451 W642
- 17457 CLARK, A. M. *Begonia Lulu Bower*. *Begonian* 15: 284-285. Dec. 1948. 96.511 B39
- 17458 COFFIN, F. S. A greenhouse bridges the gap. *Flower Grower* 35: 834-835, 852-853. Nov. 1948. 80 M72
- 17459 COFFIN, M. Climbers. *Amer. Rose Mag.* 8: 112. Nov./Dec. 1948. 80 Am327A
- 17460 COLLINS, D. A lifetime with lilacs. *Flower Grower* 35: 830-831, 859. Nov. 1948. 80 M72
- 17461 COLLINS, D. Oregon State gardens—a 300-year project. *Northwest Gard. & Homes* 16(9): 24-25. Nov. 1948. 80 N813
- 17462 COOK, M. L. Ornamental Croton. *Back to Eden* 15(3): 11. Nov. 1948. 80 B12
- 17463 COOK, W. D. Sporting in trees and shrubs. *New Zeal. Gard.* 5: 15. Sept. 1, 1948. 80 N4822
- 17464 COOPER, P. Are your Begonias sitting pretty? *Begonian* 15: 264. Nov. 1948. 96.511 B39
- 17465 COPLEY, G. H. *Chrysanthemum* propagation. *Fruit, Flower & Veg. Trades' J.* 94: 776. Dec. 4, 1948. 80 F946
- 17466 COPLEY, G. H. Orchids?—easy as Geraniums. *Nurseryman & Seedsman* 107: 1372-1373. Nov. 4, 1948. 80 N933
- 17467 CORMACK, R. G. H. The orchids of the Cypress Hills. *Canad. Field-Nat.* 62: 155-156. Sept./Oct. 1948. 410.9 Ot8
- 17468 CORNELL, R. D. Bloom and fruit throughout the year. *Golden Gard.* 13: 27. Nov. 1948. 80 G56
- 17469 CREWS, R. How to grow daffodils. *New Zeal. Gard.* 5: 24-25. Sept. 1, 1948. 80 N4822
- 17470 CROPP, C. V. Are you an adventurous gardener? Here is a crop of new annuals to give variety to your garden. *House & Gard.* 95(1): 40, 92-93. Jan. 1949. 80 H81
- 17471 CUMMING, R. W. A calendar of new perennials. *House & Gard.* 95(1): 33, 91. Jan. 1949. 80 H81
- 17472 CURTIS, W. G. Going to plant a new hedge? *Smallholder* 80(2018): 10. Dec. 3, 1948. 10 Sml  
Varieties.
- 17473 CUTLER, A. B. Culture of cacti. *New Zeal. Gard.* 5: 12-13. Sept. 1, 1948. 80 N4822
- 17474 DAKERS, J. S. Christmas decorations from garden and hedgerow. *Homes & Gard.* 30(6): 32-33, 70. Dec. 1948. 318.8 Ou7
- 17475 DEAN, I. C. Use cups and mugs for your house plants. *Better Homes & Gard.* 27(5): 118-120. Jan. 1949. 80 F9424
- 17476 DELPLACE, E. Pour rendre plus gaie la maison pendant la période hivernale cultivons quelques oignons à fleurs en appartement. *Acclimatation* 75: 271. (To be cont.) Dec. 25, 1948. 14 Ac2
- 17477 DESCHAMPS, P. La multiplication des rosiers. *Acclimatation* 75: 260. Dec. 4, 1948. 14 Ac2
- 17478 DORMON, C. Winter-blooming Iris. *Amer. Iris Soc. B.* 111: 59-61. Oct. 1948. 81 Am39
- 17479 DOTSON, I. P. Roses in southwest Kansas. *Amer. Rose Mag.* 8: 96-97. Nov./Dec. 1948. 80 Am327A
- 17480 DOVE, M. E. Suggestions on floral arrangement. *Ontario Hort. Socs. Ann. Rpt.* 1947: 45-46. 1948. 82 On825
- 17481 DUURSMA, G. D. About Christmas and New Year. (In Dutch.) *Succulenta* 1948(6): 79-81. Nov./Dec. 1948. 450 Su12  
Varieties of succulents.
- 17482 EBERLE, G. Wilde nelken. *Natur u. Volk* 78: 128-132. Sept. 1, 1948. 509 F856
- 17483 EBERLE, W. Gedanken über den aufbau einer europäischen kaktéen-gesellschaft. *Sukkulantenkunde* 1: 55-56. June 1947. 450 Su42  
English summary.
- 17484 EDMISTER, F. C. Multiflora means more wildlife. *Pa. Game News* 19(5): 10-11, 20, 28. Aug. 1948. 412.9 P38Pe



- 17485 EHNINGSSEN, MRS. H. G. Garden favorites - yours and mine. *Golden Gard.* 13: 28. Nov. 1948. 80 G56
- 17486 ELLIOT, C. The study of plants and commercial operations. *Cactus & Succulent J. Gt. Brit.* 10: 78-79. Oct. 1948. 450 C113
- 17487 ENE DE PIRO, M. *Funckias et Hemerocallides*. *Réveil Agr.* 57: 357-358. (To be cont.) Dec. 1, 1948. 14 R322
- 17488 ENE DE PIRO, M. Sur un arbuste bien connu: le paliure ou "arnaveou", le roi des buissons épineux. *Réveil Agr.* 57: 342-343. Nov. 15, 1948. 14 R322
- 17489 ENE DE PIRO, M. Une belle plante à fleurs: l'héliotrope. *Réveil Agr.* 57: 294-295. (To be cont.) Oct. 1, 1948. 14 R322
- 17490 EVANS, J. What's new in Fuchsia breeding. *Begonian* 15: 262-263. Ref. Nov. 1948. 96.511 B39
- 17491 EVERETT, T. H. An unusual house plant [*Fatshedera lizei*]. *Natl. Gard.* 19(11/12): 20. Nov./Dec. 1948. 90.32 N21
- 17492 EVISON, J. Small trees for the garden. *Amateur Gard.* 65(3362): 14. Oct. 19, 1948. 80 Am13
- 17493 EVISON, J. R. B. The beauty of bark. *Amateur Gard.* 65(3368): 15. Nov. 30, 1948. 80 Am13
- 17494 FRICKER, H., and FRICKER, D. "If you can grow Begonias, you can grow orchids". *Begonian* 15: 253, 265. Nov. 1948. 96.511 B39
- 17495 FRIEDRIGER, Die anzucht von hochstammrosen. *Gärt.-Kurier* 3(19): 1-2. Oct. 1, 1948. 80 G1942
- 17496 FULWOOD, MRS. P. D. Roses in south Georgia. *Gard. Gateways* 18(3): 6. Nov. 1948. 90.32 G166
- 17497 GARIBALDI, M. The rose garden at San José. *Amer. Rose Mag.* 8: 101-102. Nov./Dec. 1948. 80 Am327A
- 17498 GEEL, J. D. W. VAN., and KOPPE, S. Forcing of tulips in an insulated shed. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 11: 558-565. Sept. 1948. 86 N384  
English summary.
- 17499 GERBER, E. Kulturmethoden und ihre wandlungen. *Sukkulantenkunde* 1: 31-34. June 1947. 450 Su42
- 17500 GIRIDLIAN, J. N. *Alstroemerias*. *Golden Gard.* 13: 26, 31. Nov. 1948. 80 G56
- 17501 GODDARD, J. H. The National Chrysanthemum Show. *Amateur Gard.* 65(3366): 16, 22. Nov. 16, 1948. 80 Am13
- 17502 GREEN, G. G. *Stapelieae*. *Cactus & Succulent J. Gt. Brit.* 10: 82, 87. (To be cont.) Oct. 1948. 450 C113
- 17503 GRIEBEL, H. Der sanddornstrauch (*Hippophae rhamnoides*). *Gart.-Z. illus. Flora* 71: 128. Sept. 1948. 80 G1991
- 17504 GUEYDON, L. Une exposition et un congrès de Chrysanthèmes à Marseille. *Bouches du Rhone Agr.* 21(991): 4. Dec. 1, 1948. 14 B662
- 17505 GULLIVER, H. F. Rose grafting—a fascinating hobby. *Iowa State Hort. Soc. Proc.* 82: 244-247. 1948. 81 Io9
- 17506 HADOW, H. H. Popular Dahlia varieties. *Dahlia* 17: 14. Spring 1948. 80 D133
- 17507 HALL, C. A. *Nemesia* and its unique seed. *Amateur Gard.* 65(3363): 16. Oct. 26, 1948. 80 Am13
- 17508 HALL, G. W. The floral-cove border. *Amateur Gard.* 65(3361): 12. Oct. 12, 1948. 80 Am13
- 17509 HAMBLIN, S. F. Old Rose portraits. *Amer. Rose Mag.* 8: 117. Nov./Dec. 1948. 80 Am327A
- 17510 HANNAY, F. J. Period flower arrangements. *New Orleans, Home Gard. So.*, 1948. 30 p. Ref. 96.03 H19
- 17511 HANSSEN, J. L. Roses for quad cities: Davenport, Iowa and Rock Island, Moline, East Moline, Illinois. *Iowa State Hort. Soc. Proc.* 82: 247-248. 1948. 81 Io9
- 17512 HARDING, W. A. Fair Begonias. *Begonian* 15: 267. Nov. 1948. 96.511 B39
- 17513 HARDY, E. The floriferous red campion [*Lychnis dioica*]. *Nature Lover* 5: 442-443. Oct. 1948. 410 N218
- 17514 HARSHBARGER, G. *Hemerocallis* in Iowa. *Iowa State Hort. Soc. Proc.* 82: 211-216. 1948. 81 Io9
- 17515 HARSHBARGER, G. Primroses in perspective. *Amer. Primrose Soc. Q.* 6: 24-26. Oct. 1948. 96.575 Am3
- 17516 HART, MRS. P. Reviewing the julianas. *Amer. Primrose Soc. Q.* 28-30. Oct. 1948. 96.575 Am3
- 17517 HAWORTH-BOOTH, M. Climbers for house walls. *Amateur Gard.* 65(3368): 14. Nov. 30, 1948. 80 Am13
- 17518 HAWORTH-BOOTH, M. Success with Hydrangeas. *Amateur Gard.* 65(3366): 15. Nov. 16, 1948. 80 Am13
- 17519 HELF, J. Zwei wertvolle neuheiten von *Primula malacoides*. *Thür. Gartenbau* 1947(18): 5. Dec. 15, 1947. 80 T42
- 17520 HELLYER, A. G. L. Daffodils naturalised in grass. *Amateur Gard.* 65(3363): 14-15. Oct. 26, 1948. 80 Am13
- 17521 HENNINGSEN, H. G., MRS. Garden favorites - yours and mine. *Golden Gardens* 13: 49, 53, 57. Dec. 1948. 80 G56
- 17522 HEYDECKER, W. Some good early Chrysanthemums. *Gard. Work Amateurs* 69: 136. Nov. 6, 1948. 80 G1627
- 17523 HOAK, C. M. Get acquainted with the more unusual bulbs. *Golden Gardens* 13: 44, 48. Dec. 1948. 80 G56
- 17524 HOAK, C. M. The golden heralds of spring. *Golden Gard.* 13: 23, 28. Nov. 1948. 80 G56  
*Narcissus*.
- 17525 HUNGER, E. A. *Gladioli*—another mechanized flower crop. *Internatl. Harvester World* 39(9): 16. Sept. 1948. 58.8 H26
- 17526 INGWERSEN, W. A hardy alpine [*Cyananthus*]. *Amateur Gard.* 65(3363): 12. Oct. 26, 1948. 80 Am13
- 17527 INGWERSEN, W. Preparing to build a rock garden. *Amateur Gard.* 65(3366): 12. Nov. 16, 1948. 80 Am13
- 17528 INGWERSEN, W. Rock garden revival. *Nurseryman & Seedsman* 107: 1200-1201, 1764-1765. Oct. 21, Dec. 9, 1948. 80 N933
- 17529 JACOBSEN, H. Ueber die kälteresistenz der sukkulenten. *Sukkulantenkunde* 1: 52-54. June 1947. 450 Su42  
English summary.
- 17530 JANETT, MRS. F. H. Trailing arbutus [*Epi-gaea repens*]. Back to Eden 15(3): 10. Nov. 1948. 80 B12
- 17531 JANSE, J. A. *Euphorbia hislopii* N. E. Br. (In Dutch.) *Succulenta* 1948(6): 77-79. Nov./Dec. 1948. 450 Su12
- 17532 JOHNSON, A. T. Easily grown shrubs. *Amateur Gard.* 65(3362): 15. Oct. 19, 1948. 80 Am13
- 17533 JOHNSON, A. T. Waterside planting. *Amateur Gard.* 65(3368): 12. Nov. 30, 1948. 80 Am13
- 17534 JONES, J. P. Review of new American varieties of *Gladiolus*. *Austral. Gard. Lover* 24(6): 17, 19. (To be cont.) Sept. 1, 1948. 80 G1615
- 17535 JOUGAN, E. Pour bien utiliser les rosiers esarmenteux. *Acclimatation* 75: 250. Nov. 27, 1948. 14 Ac2
- 17536 KALLMAN, B. T. *Cymbidiums*, the terrestrial orchid. *Begonian* 15: 281-282. Dec. 1948. 96.511 B39
- 17537 KASAHARA, Y., and AKITA, S. On the germination forcing of seeds of *Ailanthus glandulosa* Desf. *Ohara Inst. Agr. Res. Rpt.* 37(3): 34-38. May 1948. 22.5 N684
- 17538 KISTNER, R. E. Foliages enhance flower arrangements. *Gard. Gossip* 23(12): 12, 20. Dec. 1948. 80 G1625
- 17539 KLAUSER, H. Die behandlung von Ueberseeimporten. *Sukkulantenkunde* 1: 54. June 1947. 450 Su42  
English summary.
- 17540 KNAUS, H. S. The volatile violet [*Saintpaulia*]. *Begonian* 15: 254-255. Nov. 1948. 96.511 B39
- 17541 KNOTZINGER, O. Die becherprimel (*Primula obconica*). Nach der Arbeit 24: 5. Nov. 23, 1948. 80 N11
- 17542 KNOTZINGER, O. Dahlien aus samen gezogen. Nach der Arbeit 21: 6. Oct. 12, 1948. 80 N11
- 17543 KRAINZ, H. Unsere zwergkakteen. *Sukkulantenkunde* 1: 24-26. June 1947. 450 Su42
- 17544 KROMDIJK, G. *Alant* (*Inula helenium*). (In Dutch.) *Groenten en Fruit* 4: 273. Nov. 11, 1948. 80 G89



- 17545 LAMBERT, N. In praise of the polyantha roses. *Pop. Gard.* 50: 319. Nov. 15, 1948. 80 G1622
- 17546 LAMBERT, N. Sowing sweet peas for early flowering. *Pop. Gard.* 50: 309. Oct. 16, 1948. 80 G1622
- 17547 LAMBERT, N. When the new roses arrive. *Pop. Gard.* 50: 388-389. Dec. 11, 1948. 80 G1622
- 17548 LANTZ, H. L. Turf garden, 1947. *Iowa State Hort. Soc. Proc.* 82: 187-188. 1948. 81 Io9
- 17549 LEATHERMAN, S. B. Begonia Loma Alta. *Begonian* 15: 254. Nov. 1948. 96.511 B39
- 17550 LEON, C. F. The fragrance of Peace. *Amer. Rose Mag.* 8: 118-119. Nov./Dec. 1948. 80 Am327A
- 17551 LEVEE, E. Growing peonies in the Southwest. *Golden Gard.* 13: 32. Nov. 1948. 80 G56
- 17552 LEVY, F. The denticulata-cachemiriana merry-go-round. *Amer. Primrose Soc. Q.* 6: 27. Oct. 1948. 96.575 Am3
- 17553 LIVINGSTON, R. B. Turf research project established in St. Louis. *Midwest Turf* 2(4): 3. Oct. 1948. 60.18 M58
- 17554 LOADS, F. W. An alternative to plant pots. *Amateur Gard.* 65(3363): 20. Oct. 26, 1948. 80 Am13
- Soil blocks of peat, turf or compost.
- 17555 LYNDON, R. The coral trees [Erythrina]. *New Zeal. Gard.* 5: 34-35. Sept. 1, 1948. 80 N4822
- 17556 MACANDREWS, A. H. Winter protection. *Amer. Rose Mag.* 8: 93-95. Nov./Dec. 1948. 80 Am327A
- 17557 MACFARLAND, J. H. How roses travel. *Amer. Rose Mag.* 8: 102-103. Nov./Dec. 1948. 80 Am327A
- 17558 MCKENNA, P. J. Bittersweet. *N. Y. State Conserv.* 3(3): 24. Dec. 1948/Jan. 1949. 279.8 N48
- 17559 MACRAE, L. How to have quick bloom this summer. *Better Homes & Gard.* 27(5): 38-39. Jan. 1949. 80 F9424
- 17560 MACSELF, A. J. Bulbs we should not forget. *Amateur Gard.* 65(3363): 15. Oct. 26, 1948. 80 Am13
- 17561 MACSELF, A. J. Greenhouse ferns of quality. *Amateur Gard.* 65(3366): 13. Nov. 16, 1948. 80 Am13
- 17562 MANLEY, T. R. Dutch variety tests in West Virginia. *North Amer. Cladiolus Council B.* 16: 35, 37. Dec. 1948. 96.43 N81
- 17563 MARTIN, R. S. Additional element for orchid potting. *Begonian* 15: 288. Dec. 1948. 96.511 B39
- Humisite.
- 17564 MATTHIAS, K. Schöne sommer-einjahrsblumen. *Thür. Gartenbau* 1947(9): 5-6. Aug. 1, 1947. 80 T42
- 17565 MENNINGER, E. A. Oncoba—the "chic" of Araby. *N. Y. Bot. Gard. J.* 49: 249-251. Nov. 1948. 451 N48J
- 17566 MITCHELL, S. B. Tall bearded and species Iris season in California. *Amer. Iris Soc. B.* 111: 47-54. Oct. 1948. 81 Am39
- 17567 MUNRO, J. The dyeing art. *Nurseryman & Seedsman* 107: 1772-1773. Dec. 9, 1948. 80 N933
- Dyeing flowers while growing.
- 17568 MUNRO, J. Old favourites in new style: modern Chrysanthemum maximum is a paying market flower. *Nurseryman & Seedsman* 107: 1208-1209. Oct. 21, 1948. 80 N933
- 17569 MUNRO, J. Plant Achillea now. *Nurseryman & Seedsman* 107: 1610-1611. Nov. 25, 1948. 80 N933
- 17570 MUNSON, M. A gay front garden; making the most of a very small space. *Pop. Gard.* 50: 391. Dec. 11, 1948. 80 G1622
- 17571 MUNSON, M. Successes and failures in the new border. *Pop. Gard.* 50: 349. Nov. 13, 1948. 80 G1622
- 17572 NEUGBAUER, E. K. Carefree cuttings. *Gard. Chron. Amer.* 52: 305. Nov. 1948. 80 G1632
- Ornamental plants.
- 17573 NICHOLSON, A. E. Orchids—maintaining an ideal atmosphere. *Amateur Gard.* 65(3361): 13. Oct. 12, 1948. 80 Am13
- 17574 NORMAN, A. Rose novelties of the year. *Amateur Gard.* 65(3368): 14-15. Nov. 30, 1948. 80 Am13
- 17575 NORTEN, H. T., and NORTEN, R. T. Effects of temperature and sucrose on the germination of Cattleya seed. (Abs.) *Colo.-Wyo. Acad. Sci. J.* 3(6): 37. Sept. 1948. 500 C717
- 17576 PANNEKOEK, G. J. Araucaria araucana K. Koch (1873). (In Flemish.) *Cult. en Handel* 14: 783. Dec. 1948. 80 C892
- 17577 PANNEKOEK, G. J. Pruning and care of trees along the road. (In Flemish.) *Cult. en Handel* 14: 780-781. Dec. 1948. 80 C892
- 17578 PARK, B. The rose planting season. *Amateur Gard.* 65(3362): 14-15. Oct. 19, 1948. 80 Am13
- 17579 PATTEN, H. What luck—Begonia templini. *Begonian* 15: 280-281. Dec. 1948. 96.511 B39
- 17580 PEARCE, S. A. Resting greenhouse plants. *Amateur Gard.* 65(3363): 13. Oct. 26, 1948. 80 Am13
- 17581 PEARCE, S. A. Winter-flowering Begonias. *Amateur Gard.* 65(3366): 13. Nov. 16, 1948. 80 Am13
- 17582 PERRY, F. Christmas roses. *Amateur Gard.* 65(3368): 12. Nov. 30, 1948. 80 Am13
- 17583 PERRY, F. The water garden in winter. *Amateur Gard.* 65(3362): 12. Oct. 19, 1948. 80 Am13
- 17584 PESCOTT, E. E. Raise your own trees. *Westralian Farmers' Co-op Gaz.* 14: 229, 231. Oct. 1948. 280.28 W522
- 17585 PETERS, R. M. If you grow house plants to decorate your rooms, choose the right container. *Flower Grower* 35: 827-829. Nov. 1948. 80 M72
- 17586 PHILLIPS, G. A. R. Korean Chrysanthemums. *Amateur Gard.* 65(3368): 13. Nov. 30, 1948. 80 Am13
- 17587 PHILLIPS, G. A. R. The newer Michaelmas daisies. *Amateur Gard.* 65(3362): 12. Oct. 19, 1948. 80 Am13
- 17588 PIRO, M. E. DE. Plantation et culture des Anémones. *Réveil Agr.* 57: 262. Sept. 1, 1948. 14 R322
- 17589 PIROVANO, A. Variations chez Hippeastrum vittatum. *B. Hort.* 66: 323-325. Nov. 1948. 80 B873
- 17590 PITKIN, W. In defense of Cotoneasters. *Parks & Recreation* 32: 39-40. Jan. 1949. 99.8 P23
- 17591 POLLANETZ, E. V. 25 jahre versuchsarbeit mit moorbeetpflanzen. *Gärt.-Kurier* 3(19): 2-3. (To be cont.) Oct. 1, 1948. 80 G1942
- 17592 POST, K. Year around flowering of Chrysanthemums. *N. Y. State Flower Growers. B.* 39: 1-6. Nov. 1948. 80 N486
- 17593 PRINCE, A. These 21 steps make a garden path. *House & Gard.* 95(1): 44-45. Jan. 1949. 80 H81
- 17594 RANDOLPH, L. F. Regional performance and merit ratings: preliminary report for 1948. *Amer. Iris Soc. B.* 111: 62-68. Oct. 1948. 81 Am39
- 17595 RICHARDSON, W. The war of the roses. *Amer. Rose Mag.* 8: 119. Nov./Dec. 1948. 80 Am327A
- Varieties.
- 17596 RIEDEL, P. Shrubs for the small garden. *Golden Gard.* 13: 25. Nov. 1948. 80 G56
- 17597 RIFFARD, E. M. Le Poinciana. *Rev. Hort. de l'Algérie* 52(7): 33-34. Aug./Sept. 1948. 87 R32
- 17598 RILEY, M. T. The leading prize winners of 1947. *Dahlia* 17: 3, 25. Spring 1948. 80 D133
- 17599 ROBERTS, A. W. Tree ferns. *Begonian* 15: 259. Nov. 1948. 96.511 B39
- Alsophila and other genera.
- 17600 ROBINSON, C. Broadleaf evergreens. *Green Thumb* 5(12): 4-5. Dec. 1948. 80 G82
- 17601 RODRIGUEZ ÁVILA, A. Bulbos de Gladiolos. *Ager* 45: 177-178. Sept. 1948. 33.23 Ag3
- 17602 ROEDING, G. C., JR. Fragrance in the garden. *Golden Gard.* 13: 24, 29. Nov. 1948. 80 G56
- 17603 ROS DE RAMIS, J. DE. La Dalia. *Cult. Mod.* 31: 366-367. Oct. 1948. 15 C89
- 17604 ROWARTH, R. L. Planting Dahlias for colour effects—types and varieties. *Austral. Gard. Lover* 24(7): 19, 21, 23, 43, 45. Oct. 1, 1948. 80 G1615
- 17605 SANDER, R. Cinerarienzucht anders als bisher. *Thür. Gartenbau* 1947(8): 6. July 15, 1947. 80 T42
- 17606 SAUER, J. Überwinterung von Dahlien, Begonien und Gladiolen. *Gartenjahr* 3: 173-174. Nov. 1948. 80 G1932



- 17607 SAXTON, R. To beautify the garden in winter. Pop. Gard. 50: 349. Nov. 13, 1948. 80 G1622
- 17608 SCHAUER, G. K. Rosen und tulipan, lilien und safran. Frankfurt am Main, Schauer, 1947. 180 p. 90.51 Schl
- 17609 SCOTT, P. L. Camellia, queen of the winter shade garden. Begonian 15: 278-280. Dec. 1948. 96.511 B39
- 17610 SCHRAMM, J. R. China-fir [*Cunninghamia lanceolata*] trees at Bowling Green, Virginia. Pa. U. Morris Arboretum. B. 4: 70-72. Nov. 1948. 451 P383
- 17611 SCHUUR, W. Succulents in the house. (In Dutch.) Succulenta 1948(6): 86-89. Nov./Dec. 1948. 450 Su12
- 17612 SCHWANTES, G. Rettet die wunder der wüste. Sukkulentenkunde 1: 46-50. June 1947. 450 Su42  
English summary.  
Conservation of succulent plants in South Africa.
- 17613 SHLAPIN, V. I. Culture of Cinerarias. (In Russian.) Priroda 37(10): 75-76. Oct. 1948. 410 P933
- 17614 SHURLY, E. Cacti in winter. Amateur Gard. 65(3361): 13. Oct. 12, 1948. 80 Am13
- 17615 SHURLY, E. Mammillaria. (In Dutch.) Succulenta 1948(5): 65-66. (Concl.) Sept./Oct. 1948. 450 Su12
- 17616 SHURLY, E. Management of Cacti in winter. Pop. Gard. 50: 339. Nov. 6, 1948. 86 G1622
- 17617 SMITH, MRS. L. P. Gem-like English gardens. Natl. Gard. 19(11/12): Nov./Dec. 1948. 90.32 N21
- 17618 STAGER, R. Die mondviole (*Lunaria annua* L.) in ihren beziehungen zur umwelt. Leben u. Umwelt 5: 62-67. Dec. 1948. 410 L49
- 17619 STATE flowers. Wild Flower 24: 79-81. Oct. 1948. 451 W642
- 17620 STEEVES, L. Wild flower conservation. Ontario Hort. Socs. Ann. Rpt. 1947: 50-51. 1948. 82 On825
- 17621 STEWART, V. R. Heat and drought can't faze *Helianthemums*. Flower Grower 35: 838-839. Nov. 1948. 80 M72
- 17622 STOUTEMEYER, V. T. Seeding methods for Begonias. Begonian 15: 260-261. Nov. 1948. 96.511 B39
- 17623 STRANDER, J. B. Evergreens in the landscape. Northwest Gard. & Homes 16(9): 8-9. Nov. 1948. 80 N813
- 17624 STUART, N. W. Spring Chrysanthemums. Canad. Florist 43(22): 8-9. Nov. 15, 1948. 80 C163
- 17625 TARRÉS TAYRÉN, M. El rosál en las alternativas de Llobregat. Surco 7(79): 5-10. Sept. 1948. 15 Su7
- 17626 TAUBER, O. E. A houseful of house plants. Iowa State Hort. Soc. Proc. 82: 200-208. 1948. 81 Io9
- 17627 THACHER, MRS. A. B. Fun with hollies. Natl. Gard. 19(11/12): 16-17. Nov./Dec. 1948. 90.32 N21
- 17628 THOMAS, D. G. Progress in hybridisation. Amateur Gard. 65(3363): 16. Oct. 26, 1948. 80 Am13
- 17629 THOMAS, H. 1948 season in the Southwest. Amer. Iris Soc. B. 111: 8-12. Oct. 1948. 81 Am39
- 17630 TIEMANN, O. R. African violets. Back to Eden 15(3): 4-5. Nov. 1948. 80 B12
- 17631 TIEMANN, O. R. Rejuvenating baby-tears [*Helxine*]. Flower Grower 35: 857. Nov. 1948. 80 M72
- 17632 TIMMERMANS, A. J. Echinopsis. (In Dutch.) Succulenta 1948(6): 91-92. Nov./Dec. 1948. 450 Su12
- 17633 TOMALIN, T. E. Housing the winter-flowering greenhouse plants. Pop. Gard. 50: 308. Oct. 16, 1948. 80 G1622
- 17634 UITEWAAL, A. J. A. *Opuntia basilaris* Eng. & Big. (In Dutch.) Succulenta 1948(6): 84-85. Nov./Dec. 1948. 450 Su12
- 17635 U. S. PATENT OFF. Plant patents. 6 Nos. 1948. 156.65 P69  
Contents: 805. Symonds, H. J. Carnation plant. 1 p., 1 col. pl. Aug. 24; 809. Byrum, R. L. Rose plant. 2 p., 1 col. pl. Oct. 26; 810. Tuttle, L. A. Rose plant. 1 p., 1 col. pl. Nov. 2; 811. Boerner, E. S. Rose plant. 2 p., 1 col. pl. Nov. 30; 812. Boerner, E. S. Rose plant. 2 p., 1 col. pl. Nov. 30; 817. Styer, J. F. Japanese holly plant. 1 p., 1 col. pl. Dec. 28.
- 17636 VAN KONYNENBURG, J. Bulbous Irises. Amateur Gard. 65(3363): 14. Oct. 26, 1948. 80 Am13
- 17637 VAUTIER, J. G. Perennials for exhibition. Amateur Gard. 65(3361): 14-15. Oct. 12, 1948. 80 Am13
- 17638 VINCENT, S. Les Cactus comme plantes de maison. Foyer Rur. [Montreal] 8(4): 19. Jan. 1949. 14 F83
- 17639 VOLZ, E. C. Roses in the Iowa trial gardens. Iowa State Hort. Soc. Proc. 82: 159-160. 1948. 81 Io9
- 17640 VOLZ, E. C. The Society of Iowa Florists—past, present and future. Iowa State Hort. Soc. Proc. 82: 179-181. 1948. 81 Io9
- 17641 WAINWRIGHT, MRS. E. L. The terrarium, or glass garden. Back to Eden 15: 2-3. Dec. 1948. 80 B12
- 17642 WALKER, D. C. Roses among the rocks. Amer. Rose Mag. 8: 98. Nov./Dec. 1948. 80 Am327A
- 17643 WALKER, M. Coleus as a hobby. Back to Eden 15(3): 9. Nov. 1948. 80 B12
- 17644 WARREN, C. H. Hedgerow husbandry. Nature Lover 5: 460-462. Oct. 1948. 410 N218
- 17645 WELLS, J. B. Pinks and border carnations are further improved. Amateur Gard. 65(3361): 15. Oct. 12, 1948. 80 Am13
- 17646 WHEATCROFT, C. Climbing and rambler roses. Amateur Gard. 65(3361): 14. Oct. 12, 1948. 80 Am13
- 17647 WHEATCROFT, C. Roses for garden display. Amateur Gard. 65(3366): 14. Nov. 16, 1948. 80 Am13
- 17648 WIBIRAL, E. Von blütenstauden und ihrer pflege. Gart.-Z. Illus. Flora 71: 126-127. Sept. 1948. 80 G1991
- 17649 WILCOX, R. S. The new trend in rose breeding. Iowa State Hort. Soc. Proc. 82: 240-243. 1948. 81 Io9
- 17650 WILLIAM, A. Les floralies liégeoises. B. Hort. 66: 328-339. Nov. 1948. 80 B873
- 17651 WISTER, J. C. The Presby Memorial Iris Garden. Amer. Iris Soc. B. 111: 3-6. Oct. 1948. 81 Am39
- 17652 WOODROFFE, F. B. We give you the first look. Better Homes & Gard. 27(5): 51-63, 136. Jan. 1949. 80 F9424  
New varieties of ornamentals.
- 17653 WOOLMAN, J. December-flowering Chrysanthemums. Nurseryman & Seedsman 107: 1374-1375. Nov. 4, 1948. 80 N933
- 17654 WYMAN, D. Hedges, screens and windbreaks. Ontario Hort. Socs. Ann. Rpt. 1947: 26-28. 1948. 82 On825
- 17655 YARIAN, N. C. Whether you have a wardian case or a little greenhouse, here are good orchids for beginners. Flower Grower 35: 824-825, 858. Nov. 1948. 80 M72
- 17656 ZWEIFEL, J. Hybridizing Begonias. Begonian 15: 263. Nov. 1948. 96.511 B39

#### Vegetable and Truck Crops (Including Potatoes)

- 17657 AGERBERG, L. S. Potatoes in Norrland. I-II. Studies on different varieties and the conditions of growing potatoes in the four northern-most provinces of Sweden in 1937-1947. (In Swedish.) Sveriges Utsädesförl. Tidskr. 58: 243-264. 1948. 61.9 Sv23  
English summary.
- 17658 AKELEY, R. V. New potato varieties. Tater-Stater 1948: 16-17. (Concl.) Fall 1948. 75.8 T18
- 17659 ARRUDA, E. R. DE. Tomato growing. (In Portuguese.) Agronomia [Rio de Janeiro] 7: 183-190. July/Sept. 1948. 9.2 Ag892
- 17660 BANGA, O. Studies of red table beets. I-II. (In Dutch.) Inst. v. de Veredeling van Tuinbouwgewassen. Meded. 6, 24 p. Nov./Dec. 1947. 86 W12  
English summary.  
I. Influence of time of planting on productivity of red table beets. II. Influence of time of planting on development of foliage of red table beets.
- 17661 BARBIER, LE. Tomates primeurs et sélection des porte-graines. Rev. Agr. de l'Afrique du Nord 46: 584-585. Nov. 19, 1948. 80 R326
- 17662 BARTLETT, K. A. USDA-34, a sweet corn for the Tropics. U. S. Agr. Res. Admin. Res. Achvt. Sheet 114, 2 p. Nov. 1948. 1.98 R31
- 17663 BAVENDAMM, W. Pilzzucht im walde. Forstw. Holzw. 2: 132-134. May 1, 1948. 99.8 F7793



- 17664 BENCOSME RIVAS, R. A. Recomendaciones para el cultivo del coliflor. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 39(179): 17-18. July/Aug. 1948. 8 R323
- 17665 BEWLEY, W. F. Producing high quality tomatoes. Grower 30: 837, 839. Nov. 13, 1948. 286.83 M34
- 17666 BLIN, H. Choux-fleurs pour culture à froid. Acclimatation 75: 210. Oct. 2, 1948. 14 Ac2
- 17667 BLIN, H. Les cultures successives sur couche à chassiss. Acclimatation 74: 295. Dec. 6, 1947. 14 Ac2
- Vegetables.
- 17668 BLIN, H. Pour obtenir au potager le maximum de produits en toutes saisons. Acclimatation 75: 231. Oct. 30, 1948. 14 Ac2
- 17669 BLIN, H. Pour récolter des asperges en hiver. Acclimatation 75: 273. Dec. 25, 1948. 14 Ac2
- 17670 BLIN, H. Production de laitues par culture forcée pour consommation en hiver. Acclimatation 75: 268. Dec. 18, 1948. 14 Ac2
- 17671 BLIN, H. Si vous voulez de la chicorée toujours blanche à couper. Acclimatation 75: 251. Nov. 27, 1948. 14 Ac2
- 17672 BOUHELIER, R. Choix et sélection des variétés de pommes de terre. Terre Maroc. 20: 291-292. Nov. 1948. 24 T44
- 17673 BOUQUET, A. G. B. Greenhouse vegetables—tomatoes. Oreg. State Col. Ext. C. 525, 6 p. Nov. 1948. 275.29 Or32C
- Revision of Circular 308.
- 17674 BROWN, P. H. Light on lights. 5. The summer crops in structures. Grower 30: 676-677. Oct. 23, 1948. 286.83 M34
- Vegetables.
- 17675 BUSTARRET, J. La sélection dans la production végétale. Rev. Agr. de l'Afrique du Nord 46: 528-530. Oct. 22, 1948. 80 R326
- 17676 CAMPBELL, J. C. Potato variety experiments in 1948. Hints Potato Growers 29(6), 4 p. Oct. 1948. 75.9 H59
- 17677 CARL, L. M. Iowa truck and fruit crops, 1947. Iowa State Hort. Soc. Proc. 82: 17-18. 1948. 81 Io9
- 17678 COSTE, A. Questions d'actualité concernant la tomate: les variétés. Rev. Hort. de l'Algérie 52(7): 11-23. Aug./Sept. 1948. 87 R32
- 17679 COX, J. A. Sweet potatoes, Louisiana's No. 1 horticultural crop. Mkt. Growers J. 77(11): 10, 22. Nov. 1948. 6 M34
- Chiefly culture.
- 17680 DAALEN, C. K. VAN. Potato breeding in the U. S. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 482-485. Oct. 1948. 12 N383M
- 17681 DECKERS, J. H. F. Pea culture on sandy soil. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 426-428. Sept. 1948. 12 N383M
- 17682 DEMBINSKI, J., and CSAVAJDA, J. Die mischkulturen beim gemüse. Berufs Gärt. 1(3): 1. Mar. 1948. 80 B463
- 17683 DRIEVER, H., GMELIN, H. M., and VERVELDE, G. J. Data on the Jerusalem artichoke (*Helianthus tuberosus*). (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 316-320. July 1948. 12 N383M
- 17684 EDEL'SHTEIN, V. I. Research carried out by the Chair of Vegetable Growing and the Vegetable Experiment Station. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Trud. 1948 (35): 5-26. 1948. 106 M852T
- At the Timiriāzevskaja Sel'skhoz'fakultetnaia Akademiā.
- 17685 ELLE, W. Der gemüsebau in Grossen- und Altengottern. Thür. Gartenbau 1947(10): 2. Aug. 15, 1947. 80 T42
- 17686 FABIANI, L. What varieties of potatoes shall we use for the next crop [Italy]? (In Italian.) Humus 4(10): 17-18. Oct. 1948. 16 H88
- 17687 FARISH, L. R. Tomato cultural studies. Miss. Agr. Expt. Sta. Serv. Sheet 410, 1 p. May 1948. 100 M69
- 17688 FONDARD, L. Les germoirs coopératifs à pommes de terre. Bouches du Rhone Agr. 21(992): 10. (Cont.) Dec. 15, 1948. 14 B662
- 17689 FORD, C. P. Fresh vegetables by club co-operation. Young Farmer 16: 181-182. Nov./Dec. 1948. 10 Y8
- 17690 FRIEND, W. H. Bringing up onions. Tex. Farming & Citric. 25(6): 11. Dec. 1948. 80 T31
- 17691 FRITZSCHE. Wirtschaftlicher feldmässiger gurkenanbau. Land, Wald u. Garten 3: 105-106. May 1948. 18 L22
- 17692 FRÖHLICH. Anlage von spargelbeeten. Land, Wald u. Garten 3: 67-68. Mar. 1948. 18 L22
- 17693 GARRIGUES, R. Une plante fourragère susceptible d'être cultivée dans toutes les régions de l'Afrique du Nord. Rev. Agr. de l'Afrique du Nord 46: 566-567. Nov. 12, 1948. 80 R326
- Watermelons.
- 17694 GATZKE, H. A new system for storing onions. Iowa State Hort. Soc. Proc. 82: 280-281. 1948. 81 Io9
- For planting.
- 17695 GIESSLER, H. Welche landgurkensorte entspricht am meisten den erwartungen der anbauer? Thür. Gartenbau 1947(10): 3. Aug. 15, 1947. 80 T42
- 17696 GILLIN, P. Cultivons la patate douce. Colon. Franç. de Tunisie 58(2076): 4. Dec. 4, 1948. 24 C712
- 17697 GRAVES, H. A. Vegetable varieties for your 1949 garden. Minn. Hort. 76(9): 132-133. Nov. 1948. 81 M66
- 17698 HAGBERG, A. An attempt to estimate the loss in yield from missing hills in a potato field. (In Swedish.) Sveriges Utsädesför. Tidskr. 58: 265-269. 1948. 61.9 Sv23
- English summary.
- 17699 HARRIS, R. J. My choice of vegetables. Amateur Gard. 65(3368): 19. Nov. 30, 1948. 80 Am13
- 17700 HARTH TERRE, L. Cultivo de la cebolla. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr. 14: 17-19. July 1948. 9.8 P4352
- 17701 HEPLER, J. R. Growing watermelons on heating wires. Merrimack's Monthly Messenger 10(10): 1-2. Oct. 1948. 6 M55
- Buried heating cable.
- 17702 HEYRMAN, J. Electric soil heating for forcing witloof. (In Flemish.) Tuinbouwberichten 12: 45-47. Mar. 15, 1948. 80 T817
- 17703 HOMBERG, H. Waren die diesjährigen gemüsejungpflanzenanzuchten ausreichend? Thür. Gartenbau 1947(7): 1. July 1, 1947. 80 T42
- 17704 HURST, W. J. The notable success of the Valley vegetable show. Tex. Farming & Citric. 25(5): 7, 19. Nov. 1948. 80 T31
- 17705 IBBETT, W. C. Quick returns from mustard and cress. Nurseryman & Seedsman 107: 1768-1769. Dec. 9, 1948. 80 N933
- 17706 JENKINS, J. A. The origin of the cultivated tomato. Econ. Bot. 2: 379-392. Ref. Oct./Dec. 1948. 450 Ec7
- 17707 JENKINS, J. M., JR. Great Lakes lettuce for coastal North Carolina. Mkt. Growers J. 77(11): 15, 30. Nov. 1948. 6 M34
- 17708 JENKINS, J. M., JR. North Carolina grows variety of vegetables. Mkt. Growers J. 77(12): 10, 29. Dec. 1948. 6 M34
- 17709 JONES, H. A. Problems and progress in potato and onion breeding in the United States Department of Agriculture. Iowa State Hort. Soc. Proc. 82: 262-277. 1948. 81 Io9
- 17710 JUGUET, E. La sélection de la pomme de terre en France. Agr. du Sud-Est (n. s.) 55(13): 1-2; (19): 1-2. Oct. 31, Nov. 14, 1948. 14 Ag88
- 17711 KIDNER, A. W. The fundamentals of breeding good asparagus. Grower 30: 874-875. Nov. 20, 1948. 286.83 M34
- 17712 KOPETZ, L. M. Zwiebelsamenträger im herbst oder im frühjahr aussetzen? Pflug 1: 183-184. Nov. 1948. 14 P48
- 17713 KUPKA, H. Spinatkultur. Gärt.-Kurier 3(20): 1-2. Oct. 15, 1948. 80 G1942
- 17714 LARSON, R. E. The past, present, and future of hybrid vegetables. Veg. Growers Assoc. Amer. Ann.-Rpt. 40: 103-115. 1948. 81 V52
- 17715 LAWRENCE, W. J. C. Planning the 1959 tomato crop. Grower 30: 675-676. Oct. 23, 1948. 286.83 M34
- Greenhouse culture.
- 17716 LAWRENCE, W. J. C. Trials have shown the best way to raise tomatoes. Grower 30: 922-923. Nov. 27, 1948. 286.83 M34



- 17717 LUTHARDT, W. Zucht holzbewohnender pilze. Forstw., Holzw. 2: 231-234. Aug. 1, 1948. 99.8 F7793
- 17718 LUTZ, J. M., WRIGHT, R. C., and EDGAR, A. D. Research on harvesting, transportation and storage of potatoes—a review of recent literature. Amer. Potato J. 25: 437-445. Ref. Dec. 1948. 75.8 P842
- 17719 MCEWEN, E. R. Warming the celery bed; electric soil-heating cable. Colo. Rancher & Farmer 2(21): 5, 25. Nov. 13, 1948. 6 C714
- 17720 MEJIA, J. E. Interesantes experiencias realizadas con el frijol "Caballero" en Nueva Ocotepeque Honduras Agr. 4(40/46): 17-18. Mar./Sept. 1948. 6 R753
- 17721 MINNESOTA. DEPT. OF AGRICULTURE, DAIRY AND FOOD. Seed potatoes which have met the field inspection tolerances for certification, 1948. St. Paul, 1948. 31 p. 75.9 M662
- 17722 MURATOVA, E. V. Agricultural practices for increasing the yields of onions. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Trud. 1948(35): 45-64. 1948. 106 M852T
- 17723 NOURI, O. Hints to vegetable growers. Cyprus. Dept. Agr. Leaflet (Ed. Ser.) 24, 18 p. 1948. 21 C99Le
- 17724 NOWOSAD, F. S., and others. Field roots. Canada. Dept. Agr. Farmers' B. 88, 29 p. Oct. 1948. 7 C16F
- R. M. MacVicar, P. O. Ripley, and S. B. Williams joint authors.
- 17725 OSTERMEYER, F. Die besten tomatensorten. Thür. Gartenbau 1947(9): 3. Aug. 1, 1947. 80 T42
- 17726 OSUNA, P. Como cultivar algunas hortalizas. Rev. del Café 4(6): 9, 27. Nov. 1948. 8 R3295
- 17727 OSUNA, P. La huerta. Puerto Rico. Agr. Col. Ext. C. Inform. 24, rev., 7 p. Aug. 1948. 275.29 P96C
- Vegetables.
- 17728 PÉREZ TORO, A. Principales variedades de las plantas de hortaliza. Agr. y Ganad. 24(9): 17, 20-22. Sept. 30, 1948. 8 Ag834
- 17729 PETERSEN, E. O. Let's grow some potatoes. X-XI. New Zeal. Homes & Gard. 17(9): 15-17; (10): 10-11. Dec. 1947-Jan. 1948. 80 N4823
- 17730 POLLARD, A., KIESER, M. E., and CRANG, A. Factors affecting quality in potatoes. IV. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 233-241. 84 B77
- 17731 PRADON, R. Essais de variétés de pommes de terre. Bouches du Rhone Agr. 21(992): 8. Dec. 15, 1948. 14 B662
- 17732 PROCTER, G. C. Learning to grow winter tomatoes. Grower 30(18): 735. Oct. 30, 1948. 286.83 M34
- With soil heating.
- 17733 PROCTER, G. C. Under glass: more about the Channel Islands. Grower 30: 878-879. Nov. 20, 1948. 286.83 M34
- Tomato culture.
- 17734 PURDUE, C. E. Celery production on the Murrumbidgee Irrigation Area; investigational work at Leeton Experiment Farm. Agr. Gaz. N. S. Wales 59: 469-470. Sept. 1948. 23 N472
- 17735 QUARRELL, C. P. Broad beans must be early. Nurseryman & Seedsman 107: 1370-1371. Nov. 4, 1948. 80 N933
- 17736 QUARRELL, C. P. Early lettuce in frames and cloches. Nurseryman & Seedsman 107: 1204-1207. Oct. 21, 1948. 80 N933
- 17737 QUARRELL, C. P. Forcing chicory, a valuable winter salad crop. Nurseryman & Seedsman 107: 1530-1531. Nov. 18, 1948. 80 N933
- 17738 QUARRELL, C. P. Seakale: a crop for the specialist. Nurseryman & Seedsman 107: 1766-1767, 1770. Dec. 9, 1948. 80 N933
- 17739 QUELLET, C. E. La qualité des plants, facteur dans le problème de la précocité des tomates. Rev. Agr. de l'Afrique du Nord 46: 512. Oct. 8, 1948. 80 R326
- 17740 RAUCH, A. Die wanderkastenverwendung im gemüsebau. II. Gärt.-Kurier 3(19): 3. Oct. 1, 1948. 80 G1942
- 17741 REESTMAN, J. A. Role of potatoes in mixed sand district farms. (In Dutch.) Netherlands. Landbouwworlichtingsdienst. Maandbl. 5: 431-436. Sept. 1948. 12 N383M
- 17742 REINHOLD, J. Chinakohl und seine samenge-winnung. Thür. Gartenbau 1948: 191-192. Nov. 15, 1948. 80 T42
- 17743 REINMUTH, E. Unsere waldpilze, eine zusätzliche nahrungsquelle. Forstw., Holzw. 2: 130-131. May 1, 1948. 99.8 F7793
- 17744 RICHAUD, M. Culture de l'artichaut. Réveil Agr. 57: 342. (Cont.) Nov. 15, 1948. 14 R322
- 17745 RODNIKOV, N. P. Early ripening and yields of Klin cucumbers grown in greenhouses in relation to their mineral nutrition. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Trud. 1948(35): 65-101. 1948. 106 M852T
- 17746 RODRIGO, P. A. The family home garden. Philippine Livestock Mag. 2: 117, 125. Apr. 1948. 49 P53
- 17747 ROSS, A. A. Tomato variety investigations in the Stanthorpe district. Queensland Agr. J. 67: 135-142. (To be cont.) Sept. 1948. 23 Q33
- 17748 SCHMIDT, L. Ernte von spätkraut und zwiebel. Landwirtschaft 1948: 266. Sept. 18, 1948. 19 L235
- 17749 SHEWELL-COOPER, W. E. How to earth up celery. Pop. Gard. 50: 317. Nov. 15, 1948. 80 G1622
- 17750 SHEWELL-COOPER, W. E. Watercress as a market crop; growers should get three crops per bed per season. Field 192: 585. Nov. 20, 1948. 10 F45
- 17751 SIDWELL, R. W. Broccoli for the amateur. Amateur Gard. 65(3363): 20. Oct. 26, 1948. 80 Am13
- 17752 SIEBENEICK, Die pflanzzeit der kartoffeln. Landw. Wchnbl. f. Westfalen u. Lippe 105: 52. Apr. 3, 1948. 18 L2346
- 17753 SNEEP, J. The Cavallius - Reuzen spinach. (In Dutch.) Groenten en Fruit 4: 279. Nov. 11, 1948. 80 G89
- 17754 SNELL, K., and GEYER, H., ed. Die zugelassen deutschen kartoffelsorten, ihre erkennung, unterscheidung und wirtschaftliche bewertung. Ed. 9, rev. Berlin, Parey, 1948. 82 p. 75 Sn2Z
- 17755 STARK, F. C., JR. Improving the quality of the Maryland Golden sweet potato. Peninsula Hort. Soc. Trans. 61: 58-59. 1947. 81 P37
- 17756 STARK, F. C., JR. Investigations with "hormone" materials for snap beans in Maryland. Peninsula Hort. Soc. Trans. 61: 56-58. 1947. 81 P37
- 17757 STEGMANN, Der wirtschaftliche wert der z. zt. zugelassenen gemüseerbsen. Thür. Gartenbau 1947(7): 2-3. July 1, 1947. 80 T42
- 17758 STEIN, H. Salatzichorie, eine winterdelikatesse. Gartenjahr 3: 180. Nov. 1948. 80 G1932
- 17759 STUART, G. M. A four years' cloche-cropping trial. Edinb. and East Scot. Col. Agr. Misc. P. 22, 5 p. Summer 1948. 103 Ed4M
- Vegetables.
- 17760 SWAN, J. D. Will the Chickering top onions without bruising? Iowa State Hort. Soc. Proc. 82: 298. 1948. 81 Io9
- 17761 TAYLOR, G. M. Some rhubarb varieties. Amateur Gard. 65(3362): 19. Oct. 19, 1948. 80 Am13
- 17762 TIEDJENS, V. A. Sweet potato varieties. Peninsula Hort. Soc. Trans. 61: 32-33. 1947. 81 P37
- 17763 TRIOLA, P. DE LA. Cultivo forzado del espárrago. Cult. Mod. 31: 377-378. Oct. 1948. 15 C89
- 17764 TUFFIN, H. R. Exhibition onions. Amateur Gard. 65(3366): 19. Nov. 16, 1948. 80 Am13
- 17765 WITT, W. Die champignon-zucht nach den neuesten erfahrungen. Bauern-Jahrb. 1948: 65-68. 18 B322
- 17766 WYNN, J. The pit method of growing show carrots. Pop. Gard. 50: 387. Dec. 11, 1948. 80 G1622
- 17767 WYNN, J. Preparing ground for show onions. Pop. Gard. 50: 317, viii. Nov. 15, 1948. 80 G1622
- 17768 ZELOSKI, F. Heavy potato vines and how to deal with them. Iowa State Hort. Soc. Proc. 82: 277-279. 1948. 81 Io9
- Includes notes by other growers.

## WEEDS AND POISONOUS PLANTS

- 17769 AMIZET, L. Au sujet du 2,4 D comme herbicide. Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc. 18: 229-230. July/Aug. 1948. 80 F9482
- 17770 ARNABOLDI, R. Experiencias de lucha contra las malezas. Uruguay. Min. de Ganad. y Agr. B. Inform. 240: 8. Oct. 14, 1948. 9.9 G15B
- 17771 ASHTON, J. R. American weed control tests. Grower 30: 833. Nov. 13, 1948. 286.83 M34



- 17772 BINKLEY, F. A weed garden. Green Thumb 5(12): 19. Dec. 1948. 80 G82
- 17773 BIRD, R. C. To beat weeds in grain. Country Gent. 118(11): 27, 80, 82-83. Nov. 1948. 6 C833
- 17774 CHIAPPELLI, R. Chemical herbicides for rice and grain. (In Italian.) Riscicoltura 36: 195-202. Sept. 1948. 59.8 G43
- 17775 COUTIERE, G. La lutte contre les chardons. Terre d'Oc 30: 197-198. May 1948. 14 Ar5
- 17776 CRAIG, J. J. 2,4-D weed control; a guide for the farmer, gardener, and commercial sprayer for profitable and effective use of chemicals in the battle against noxious weeds and the role that the new 2,4-D herbicide plays in the crusade. Eugene, Oreg., McKenzie Farm Press, 1948. 101 p. 79 C842
- 17777 CULLITY, M. The bracken fern and its eradication. West. Austral. Dept. Agr. Leaflet 920, 12 p. 1948. 23 W52B
- 17778 DAMOISEAUX, J. L'Orobanche et le céleri. B. Hort. (n. s.) 3: 264-265. Sept. 1, 1948. 80 B873
- 17779 DANIELSON, L. L. Chemical control of weeds in vegetable crops. Peninsula Hort. Soc. Trans. 61: 35-37. 1947. 81 P37
- 17780 DOAK, B. W. Chemicals for weed control. Straight Furrow 7(12): 10-11. Oct. 1948. 281.8 S8
- 17781 DUNHAM, R. S. Where are we in weed control? Minn. Seed Grower 21(6): 1, 4-5. Dec. 1948. 61.8 M66
- 17782 GARDINER, G. F. Getting rid of lawn weeds. Pop. Gard. 50: 319. Nov. 15, 1948. 80 G1622
- 17783 GERTLER, A. M. New technique in weeding by air. Chicago, 1948. 3 p. 79 G32
- 17784 HALPERIN, L. Pulverización de los cultivos de maíz para combatir las malezas. Pampa Argentina 22(255): 14-15. Nov. 1948. 9 P19
- 17785 HEBERT, L. P., and ARCENEUX, G. Late season control of tie-vines in sugarcane by means of 2,4-D sprayed by airplane. Sugar B. 27: 84, 89-92. Dec. 15, 1948. 65.9 Am32
- 17786 HOFSTEN, C. G. VON. Studies on weeds and plant diseases. (In Swedish.) Lantmannen 32: 743-744. Nov. 6, 1948. 11 L234  
From an airplane.
- 17787 KASAHARA, Y. Experiment on the chemical control of weeds. 11-12. (In Japanese.) Chara Inst. Agr. Res. Rpt. 37(1): 6-7. June 1947. 22.5 N684
- 17788 KASAHARA, Y. Studies on the species of weeds and their geographical distribution. I. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 8-10. June 1947. 22.5 N684
- 17789 KLINKOWSKI, M. Richtige unkrautbekämpfung sichert die erträge. Bauern-Jahrb. 1948: 52-55. 18 B322
- 17790 KRAUS, G. Seltsames auftreten von kleeseide an zierpflanzen. Pflanzenschutzberichte 2: 186-190. Oct. 1948. 464.9 P48  
Cuscula racemosa nuda.
- 17791 LACHMAN, W. H. Controlling weeds in vegetables. New England Homestead 121(23): 13. Dec. 11, 1948. 6 N442
- 17792 LASSETTER, W. C. What can we do with 2,4-D? Prog. Farmer, Miss.-Ark.-La. Ed. 63(11): 24, 113. Nov. 1948. 6 So81  
Weed control.
- 17793 MCNEAL, F. H. Effect of 2, 4-D on the yield and height of Federation wheat. Amer. Soc. Agron. J. 40: 1070-1073. Ref. Dec. 1948. 4 Am34P
- 17794 MASSEY, G. F. Weed control in sugar beets. Farm Impl. News 69(26): 50-51. Dec. 16, 1948. 58.8 F22
- 17795 MATAGRIN. Engrais et mauvaises herbes. Terre d'Oc 30: 189-190. May 1948. 14 Ar5
- 17796 NYHLEN, Å. Weed control with hormone preparations in orchards. (In Swedish.) Försök och Forskning 5: 35-36. May 1948. 11 F77
- 17797 ROBB, O. J. The use of 2, 4-D in small gardens. Ontario Hort. Soc. Ann. Rpt. 1947: 38-39. 1948. 82 On825
- 17798 ROBBINS, W. W. Uso de herbicida selectivo significará aumento de producción triguera chilena. Agr. Austral 14: 7298-7299. Aug. 1948. 9.3 Ag842
- 17799 ROSELLA, E. Les phyto-herbicides; leur emploi dans les cultures autres que les céréales. Agri-culture [Paris] 12: 331-333. Oct. 1948. 14 Ag823
- 17800 SHERWOOD, S. F. Control of alligatorweed by 2,4-D aids sugarcane production. U. S. Agr. Res. Admin. Res. Achvt. Sheet 112, 2 p. Nov. 1948. 1.98 R31
- 17801 STEVENS, O. A. Wild oat germination and other characters. N. Dak. Agr. Expt. Sta. Bimo. B. 11: 3-6. Sept./Oct. 1948. 100 N813B
- 17802 SYLWESTER, E. P. Weed control in gardens and lawns. Iowa State Hort. Soc. Proc. 82: 216-224. 1948. 81 Io9
- 17803 TAFURO, A. 1948 2,4-D research a guide in 1949. G. L. F. Week Serv. Sched. 13(28, sup.), 2 p. Jan. 10, 1949. 280.28 G113W
- 17804 TINGEY, D. C. Weeds, the most costly crop pest. Farm & Home Sci. [Utah Sta.] 9(4): 5, 18. Dec. 1948. 100 U1F  
Methods of control.
- 17805 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Mechanical and chemical control of range brush and weeds, by D. A. Savage, J. R. Harlan, A. L. Brown, and E. H. McIlvain. Washington? 1948. 5 p. 1.965 F2M46
- 17806 WATERS, H. A. New methods of application of 2,4-D. Greenkeepers' Rptr. 16(5): 5-7. Sept./Oct. 1948. 60.18 G83
- 17807 WEST, P. British develop "Agroxone," new weed killer. Agr. Chem. 3(12): 31. Dec. 1948. 381 Ag8
- 17808 YEATES, J. S. Control of Oxalis is near: research at Massey Agricultural College. New Zeal. Gard. 5: 9-11. Sept. 1, 1948. 80 N4822

#### MISCELLANEOUS ECONOMIC PLANTS (Drug, Dye, Rubber, Etc.)

- 17809 ALVARADO, J. A. El corte de café debe hacerse sin sobar ni estrujar las ramas, las hojas ni los flores del árbol. Honduras Agr. 4(40/46): 14. Mar./Sept. 1948. 6 H753
- 17810 BARQUERO, H. History of the Costa Rica cacao industry. Cacao Inform. B. 1(12): 1-2. Oct. 1948. 68.38 C11
- 17811 BIE, G. J. VAN DER. Notes sur le latex et le caoutchouc de Ficus elastica. Rubber-Stichting. Meded. 59, 16 p. Ref. Nov. 1947. 78.9 R27
- 17812 BRETHENOUX. La culture du houblon en Flandre française. Petit J. du Brasseur 56: 946-948. Dec. 17, 1948. 390.8 P44
- 17813 CAMARGO, R. DE. Shading of coffee trees. (In Portuguese.) Chacaras e Quintais 78: 606-610. Nov. 15, 1948. 9.2 C34
- 17814 CAVARA, C. Possibility of growing the boldu-tree [Peumus boldus] in Italy. (In Italian.) Pianta Officinali 3(10): 9-11. Oct. 1948. 71.8 P57
- 17815 CHALFIN, E. F. Sow in the fall for best results with herbs. Flower Grower 35: 833, 853. Nov. 1948. 80 M72
- 17816 CHAPMAN, V. J. Seaweed resources along the shores of Great Britain. Econ. Bot. 2: 363-378. Ref. Oct./Dec. 1948. 450 Ec7
- 17817 CHOPRA, I. C., HANDA, K. L., and KAPOOR, L. D. A preliminary note on the essential oil bearing plants growing in Kashmir. II-III. Indian J. Agr. Sci. 17: 100-103, 389-392. Apr., Dec. 1947. 22 Ag831
- 17818 CRABALONA, L., and DEMEILLIERS, A. Le Costus. Indus. de la Parfumerie 3: 385-387. Dec. 1948. 308.8 In2
- 17819 DEMBINSKI, J., and CSAVAJDA, J. Die kultur des paprika. Berufs Gärt. 1(4): 2-3. April 1948. 80 B463
- 17820 DRAGONE-TESTI, G. The bee plant [Melissa officinalis]. (In Italian.) Pianta Officinali 3(10): 4-6. Oct. 1948. 71.8 P57
- 17821 DUQUE, J. P. El café en la economía dominicana; problemas relativos a la producción. Dominican Repub. Com. de Defensa del Café y del Cacao. B. Inform. 5(38): 1-6. (Cont.) Oct. 1948. 286.3689 D71  
Discusses climatic factors.
- 17822 FRANCIOSA, L. The culture of the olive and oil plants in Campania. (In Italian.) Olearia 2: 781-786. Nov. 1948. 307.8 OL2
- 17823 GARCÍA GUIJARRO, L. Utilización de los productos de la garrofa o algarroba. Agr. Levantino 14 (165): 9-10. Aug. 1948. 15 Ag85
- 17824 GAZTAMBIDE, J. B. El bambú y su utilidad en la finca. Puerto Rico. Agr. Col. Ext. C. Inform. 60, rev., 3 p. July 1948. 275.29 P96C



- 17825 GEORLETTE, R. Travaux relatifs au houblon publiés depuis 1940. Ann. de Gembloux 54: 212-219. Third Quart. 1948. 13 G28
- 17826 GERLACH, G. H. *Datura innoxia*—a potential commercial source of scopolamine. Econ. Bot. 2: 436-454. Ref. Oct./Dec. 1948. 450 Ec7
- 17827 GRIEBEL, H. Die Ausrottung einer uralten heil- und bienenpflanze [*Berberis vulgaris*]. Gart.-Z. Illus. Flora 71: 162-163. Nov. 1948. 80 G1991
- 17828 HARTMANN, H. T. The olive industry of California. Econ. Bot. 2: 341-362. Ref. Oct./Dec. 1948. 450 Ec7
- 17829 HEEGER, E. F., and POETHKE, W. *Papaver somniferum* L., der mohn. Berlin, Arbeitsgemeinschaft Medizinischer Verlage, 1947. 235-340 p. (Die Pharmazie. 4. Beiheft, 1. Ergänzungsband) 396 H364
- 17830 HOED, F. Rapport sur l'activité du Cercle d'Etudes et de Recherches pour l'Amélioration du Houblon Belge, Institut National Belge du Houblon. Ann. de Gembloux 54: 113-193. Third Quart. 1948. 13 G28
- 17831 IRVINE, F. R. The indigenous food plants of West African peoples. II. N. Y. Bot. Gard. J. 49: 254-267. Nov. 1948. 451 N48J
- 17832 JONG, A. W. K. DE. Coca. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel IIa, p. 866-888. Ref. 's-Gravenhage, 1948. 37 H14L Culture.
- 17833 JONG, A. W. K. DE. Three Indian drugs. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel IIa, p. 889-905. 's-Gravenhage, 1948. 37 H14L Culture.
- 17834 KERBOSCH, M. Cinchona culture. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel IIa p. 747-865. 's-Gravenhage, 1948. 37 H14L
- 17835 KERHARO, J., and BOUQUET, A. Note sur les applications thérapeutiques d'Entada sudanica, Schweinf. en Côte d'Ivoire. Acta Trop. 5: 255-256. 1948. 475 Ac8
- 17836 KROLL, U. Pyrethrum and good farming. Pyrethrum Post 1(2): 23-26. Oct. 1948. 421 P99
- 17837 LANZONI, F. A rare herb in Italy. (In Italian.) Piante Officinali 3(10): 1-3. Oct. 1948. 71.8 P57 *Coriaria myrtifolia*.
- 17838 LLOBREGAT, E. El cultivo del olivo en la Argentina. Agr. Levantino 14(165): 24. Aug. 1948. 15 Ag85
- 17839 MENDES, A. Manioc versus mangaba. (In Portuguese.) Chacaras e Quintais 78: 557-558. Nov. 15, 1948. 9.2 C34
- 17840 MONTES V., R. La rosella. Nicaragua. Min. de Agr. y Trab. Divulg. Agropecuarias 1(4/5): 12-13. Feb./Mar. 1948. 8 N51D
- 17841 NEUWALD, F. Eine deutung der ursache der wirksamkeitssteigerung der Folia Digitalis und ihrer zubereitungen. Bot. Oecon. 1: 16-18. July 1948. 450 B6528 English, French, and Russian summaries.
- 17842 OLIVER, F. L. Caficultores de Yauco reciben adiestramiento en el cultivo intensivo de café. Puerto Rico. Agr. Col. Ext. Carta Mens. 5(8): 1. Nov. 1948. 275.29 P96Ca
- 17843 PASSAILAIGUE, MRS. J. Herbs. Gard. Gateways 18(3): 5. Nov. 1948. 90.32 G166
- 17844 PERCIVAL, E. G. V., and ROSS, A. G. The cellulose of marine algae. Nature [London] 162: 895-896. Dec. 4, 1948. 472 N21
- 17845 POLITIS, H. Winter care of herbs. Golden Gardens 13: 52. Dec. 1948. 80 G56 California.
- 17846 PORTÈRES, R. Notes sur la culture du *Coffea arabica* au Cameroun Français. Agron. Trop. 3: 385-410. July/Aug. 1948. 26 Ag86
- 17847 PRINEAS, J. The curative forest plants. (In Greek.) Dasos 1(4): 37-39. 1947. 99.8 D262
- 17848 RAGHAVAN, T. S. Further notes on seedling selection. Coconut Res. Scheme. Leaflet 14, p. 1-3. Aug. 3, 1948. 77.9 C33L
- 17849 READ, J. Piperitone, 1788-1933: a romance of British chemistry. Brit. Sci. News 2(13): 2-7. Nov. 13, 1948. 472 B77 *Eucalyptus piperita*.
- 17850 RIVERA H., R. Cacao cultivation in Antioquia, Colombia. Cacao Inform. B. 1(12): 2-3. Oct. 1948. 68.38 C11
- 17851 ST. JOHN, H. Origin of the plants used for sustenance in aboriginal Polynesia. Hawaiian Acad. Sci. Proc. (1947/48)23: 9. 1948. 500 H31A
- 17852 SANCHEZ S., J. J. Palmitos y sirtubas. Rev. de Agr. [San José] 20: 450-452. Nov. 1948. 8 Es1 Palm hearts as a vegetable in Costa Rica.
- 17853 SCHÖNFELDER, B. Welche heilpflanze ist das? Deutsche heil- und giftpflanzen. Stuttgart, Franckh. 1948. 144 p. 459.3 Sch62
- 17854 SEYFARTH, M. Besenginster (*Sarothamnus scoparius*) die neue wirtschaftliche nutzpflanze in der landwirtschaft. Bauern-Jahrb. 1948: 57-59. 18 B322
- 17855 SUPREME COMMANDER FOR THE ALLIED POWERS. GENERAL HEADQUARTERS. NATURAL RESOURCES SECT. Pyrethrum in Japan. U. S. Off. Tech. Serv. PB Rpt. 80745, 28 p. Tokyo, 1947. 157.8 R29
- 17856 THORPE, H. C. Breeding better pyrethrum. Pyrethrum Post 1(2): 12-15. Oct. 1948. 421 P99
- 17857 ULATE G., R. Regulación de las sombras en las plantaciones de café. Suelo Tico 1: 31-32. Aug. 1948. 8 Su2
- 17858 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. TECHNICAL COLLABORATION BR. Abstracts of some of the literature pertaining to coffee, by J. C. Crane and L. Greene. Washington, 1948. 133 p. 1.943 Ab8
- 17859 VERMEULEN, C. Les nouvelles variétés anglaises et l'âge des houblons. Petit J. du Brasseur 56: 932. Dec. 10, 1948. 390.8 P44
- 17860 VODRET, F. Culture of olives and other oil-seeds in Sardinia. (In Italian.) Olearia 2: 668-677. Oct. 1948. 307.8 OL2
- 17861 WEBSTER, C. C. A note on the cultivation and manuring of tung plantations (*A. montana*). Nyasaland Agr. Q. J. 7: 58-64. July 1948. 24 N983
- 17862 WESTROP, A. R. The resuscitation of young retarded rubber. Planter 23: 108-113. May 1947. 78.8 P69
- 17863 WILDEMAN, É. DE. À propos de médicaments antilepreux d'origine végétale. X. Quelques espèces des genres Albizzia Durazz. et Cassia L. Inst. Roy. Colon. Belge. Sect. des Sci. Nat. et Méd. Mém. 17(3), 57 p. 1948. 504 B8362M

## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 17864 BONI, A. Pedological schools. (In Italian.) Gior. di Agr. 58: 278. Oct. 10, 1948. 16 It1G
- 17865 DOBRZAŃSKI, B., and PIŚCZEK, J. Studies of soils of Sośnica's terrains. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E 2: 263-284. Ref. 1947. 512 L96Ae English summary.
- 17866 KRUIJK, P. A., and ZANDE, R. V. D. Soil research. I. Taking soil samples. (In Dutch.) Groenten en Fruit 4: 280. Nov. 11, 1948. 80 G89
- 17867 NAJJAR, H. Soil properties. (In Arabic.) Syria, Ext. Serv. C. 10, 16 p. Sept. 1947. 22.5 Sy8 English summary.
- 17868 SMITH, R. The farmer and the soil. Westralian Farmers' Co-op Gaz. 14: 209, 211-212. (To be cont.) Oct. 1948. 280.28 W522
- 17869 TALLARICO, G. Sila and its soils. (In Italian.) Gior. di Agr. 58: 327. Nov. 21, 1948. 16 It1G
- 17870 VÖTH, W. Der erdboden und die erdarten. Berufs Gärt. 1(10): 1-3. Oct. 1948. 80 B463

## Soil Physics

- 17871 COLLARD, R. Structure et dégradation de nos sols. Agriculture [Paris] 12: 335. Oct. 1948. 14 Ag823
- 17872 FERNANDEZ HERNANDEZ, E. El suelo. Confed. de Cám. Nac. de Com. Carta Semanal 12(602): 12-13. Dec. 4, 1948. 286.8 C76 Structure.



17873 KURON, H., and HANNEMANN, W. Der einfluss der kalks auf die mechanischen eigenschaften der bodenkolloide. *Ztschr. f. Pflanzenernähr., Düngung, Boden.* 40: 200-206. 1948. 384 Z343A

17874 MOMIN, A. U. A new simple method of estimating the moisture content of soil in situ. *Indian J. Agr. Sci.* 17: 81-85. Apr. 1947. 22 Ag831

17875 VEIHMAYER, F. J., and HENDRICKSON, A. H. The permanent wilting percentage as a reference for the measurement of soil moisture. *Amer. Geophys. Union. Trans.* 29: 887-891. Ref. Dec. 1948. 330.9 Am3  
Discussion, p. 891-896.

17876 WINTERMYER, A. M. A new soil-dispersing apparatus for mechanical analysis of soils. *Pub. Roads* 25: 102-106, 108. Sept. 1948. 1 R53P

#### Soil Chemistry and Mineralogy

17877 ARENS, G. J. What! soil reaction. *Pacific Northwest Co-op.* 14(1): 10. Jan. 1949. 280.28 P112

17878 BAEYENS, J., SCHEYS, G., and APPELMANS, F. Phosphorus in soils and plants. (In Flemish.) *Agricultura [Louvain]* 46(3): 24-104. Ref. Aug. 1948. 13 R32

17879 BOWER, C. A. Rapid tests for soluble and exchangeable sodium in saline and alkali soils. *Amer. Soc. Agron. J.* 40: 1100-1105. Dec. 1948. 4 Am34P

17880 BURRIELL, F., and HERNANDO, V. El fosforo en los suelos. II. *Soc. Españ. de Fís. y Quím. An. Ser. B, Quím.* 44: 329-344. Ref. Mar. 1948. 385 So16  
English summary.

17881 GARMAN, W. L. Organic phosphorus in Oklahoma soils. *Okl. Acad. Sci. Proc.* 28: 89-100. 1948. 500 Ok42

17882 GRACIE, D. S., and KHALIL, F. The total and available phosphoric acid in Egyptian soils and the effect of superphosphate on the main agricultural crops. *Egypt. Min. Agr. B.* 251, 72 p. Cairo, 1948. 24 Eg93

17883 KLECHKOVSKII, V. M., and KASHIRKINA, N. V. Absorption of phosphoric acid by kaolinite and change in its availability for plants. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Dok.* 7: 55-61. 1948. 20 M857

17884 LEAL, M. Tierra vegetal, su composición y mejoras. *Campo [La Paz]* 2(15): 15-16. July 1948. 9.1 C15

17885 NICHOLAS, D. J. D., and FIELDING, A. H. The use of *Aspergillus niger* (M strain) in the bioassay of magnesium, copper, zinc and molybdenum in soils. I. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 126-137. Ref. 84 B77

17886 SOIL SCIENCE SOCIETY OF AMERICA. Symposium on the use of radioactive isotopes in soil and fertilizer investigations. *Geneva, N. Y., 1948.* 123 p. 386 So3

Contents: The use of radioactive tracers in plant nutrition studies, by P. R. Stout, R. Overstreet, L. Jacobson, and A. Ulrich; Basic concepts of soil and fertilizer studies with radioactive phosphorus, by S. B. Hendricks and L. A. Dean; Measurement of radioactive phosphorus, by N. S. Hall and A. J. MacKenzie; Application of radioactive tracer technique to studies of phosphatic fertilizer utilization by crops: I. Greenhouse experiments, by L. A. Dean, W. L. Nelson, A. J. MacKenzie, W. H. Armiger, and W. L. Hill. II. Field experiments, by W. L. Nelson, B. A. Krantz, W. E. Colwell, W. G. Woltz, A. Hawkins, L. A. Dean, A. J. MacKenzie and E. J. Rubins. Exchange reactions between phosphates and soils: hydroxylic surfaces of soil minerals, by C. D. McAuliffe, N. S. Hall, L. A. Dean and S. B. Hendricks.

17887 TRACEY, M. V. The determination of uronic acids in soil. *Analyst* 73: 554-555. Ref. Oct. 1948. 382 An1

#### Soil Biology

17888 ALBRECHT, W. A. Soil microbes get their food first. *Victory Farm Forum* 33: 5-6. Dec. 1948. 281.8 F226

17889 DRAGHETTI, A. Biological significance of humus in natural formations of flora and fauna and in agriculture. (In Italian.) *Humus* 4(9): 5-6. Sept. 1948. 16 H88

17890 GEOGHEGAN, M. J. Influence of micro-organisms on aggregate formation in soil. *Soc. Appl. Bact. Proc.* 1947(2): 77-82. Ref. Jan. 14, 1948. 448.39 So12

17891 WEBLEY, D. M. The microbiology of composting. 1. The behaviour of the aerobic mesophilic bacterial flora of composts and its relation to other changes taking place during composting. *Soc. Appl. Bact. Proc.* 1947(2): 83-89. Jan. 14, 1948. 448.39 So12

#### Soil-Plant-Animal Relationships

17892 AGUIRRE ARREGUI, A. Tierras y fertilizantes; económica y fisiológicamente la alimentación de los vegetales y de los animales depende del cuidado del suelo. *Montevideo, Letras*, 1947. 258 p. 56.4 Ag9

17893 ALBRECHT, W. A. Our teeth and our soils. n. p., 1947? 199-213 p. 56.6 AL12T

17894 BALFOUR, LADY E. B. The living soil; evidence of the importance to human health of soil vitality, with special reference to post-war planning. Ed. 7. *London, Faber and Faber*, 1947. 258 p. 56.5 B19

17895 BEARD, D. F. It takes nitrogen to grow high-protein corn. *Ohio Farmer* 202(12): 3. Dec. 18, 1948. 6 Oh3

17896 CAHILL, A. J. National health and healthy soil. *Organic Farming Digest* 1(4): 9-12. Jan. 1947. 56.8 Or32

17897 CONNELL, R. H. M. The soil is the way to health. *Organic Farming Digest* 1(5): 22-23. Apr./June 1947. 56.8 Or32

17898 HECKEL, A. What will they discover next? Some recent experiments with human and animal nutrition. *Bio-dynamics* 6(4): 17-19. Summer 1948. 56.8 B52

17899 JEREMY, E. Paralysis and chemical fertilisers. *Organic Farming Digest* 1(4): 26-29. Jan. 1947. 56.8 Or32

17900 KING, F. C. Organic gardening. *Organic Farming Digest* 1(4): 12-16; (5): 17-22; (6): 13-17. Jan.-July/Sept. 1947. 56.8 Or32

17901 LAWRENCE, G. V. Soil fertility and health. *Organic Farming Digest* 1(5): 12-14. Apr./June 1947. 56.8 Or32

17902 PFEIFFER, E. The bio-dynamic method, what it is and what it is not. *Bio-dynamics* 6(4): 2-17. Summer 1948. 56.8 B52

17903 SAWTELL, V. Food, soil and health. *Organic Farming Digest* 1(11): 6-8. Oct./Dec. 1948. 56.8 Or32

17904 STEWART, D. R. Natural food & physical fitness. *Organic Farming Digest* 1(11): 23-24. Oct./Dec. 1948. 56.8 Or32

17905 SVANBERG, O. Significance of fertilizers for animal husbandry. (In Swedish.) *Växt-Närings-Nytt* 4(4): 1-6. 1948. 57.8 V47

Effect of phosphate fertilizer on nutritive value of feed crops.

17906 SYKES, F. Milk and soil fertility. *Organic Farming Digest* 1(4): 18-23. Jan. 1947. 56.8 Or32

17907 WHITE, H. F. First principles of nutrition. *Organic Farming Digest* 1(10): 27-29. July/Sept. 1948. 56.8 Or32

Soil-plant-animal relationship.

17908 WHITE, H. F. Organic farming for soil building. *Organic Farming Digest* 1(11): 4. Oct./Dec. 1948. 56.8 Or32

17909 WHITE, H. F. Whither civilisation? *Organic Farming Digest* 1(7): 21-23. Oct./Dec. 1947. 56.8 Or32  
Soil-plant-animal relationship.

#### Soil Genesis, Formation, Classification, and Mapping

17910 BARNES, C. P. Soil classification helps fit crops and farming methods to individual farms. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 109, 2 p. Oct. 1948. 1.98 R31

17911 CALIFORNIA. AGRICULTURAL EXPERIMENT STATION. DIV. OF SOILS. Soils of Colusa County, California, by F. Harradine. *Berkeley*, 1948. 140 p. 56.22 C132

17912 GRANGE, L. I. North Island soils. *New Zeal. Dept. Agr. B.* 279: 5-14. 1947. 23 N48Bu

17913 GRANGE, L. I. South Island soils. *New Zeal. Dept. Agr. B.* 279: 15-22. 1947. 23 N48Bu

17914 KURON, H. Über die bodengenetischen Voraussetzungen der unterbodenverdichtung. *Forstw., Holzw.* 2: 25-28. Jan. 15, 1948. 99.8 F7793

17915 MUIR, A. Soil survey and soil classification. (Sum.) *Chem. & Indus.* 1948: 810. Dec. 18, 1948. 382 M31C



- 17916 PERALTA, P. E. Los suelos del Delta, sus características. Campo y Suelos Argentino 32(384): 51. Oct. 1948. 9 C15
- 17917 RAO, V. L. S. P. Soil survey and land use analysis. Indian Geog. J. 22: 136-140. July/Sept. 1947. 331.8 In2
- 17918 SMITH, R. A method for the compilation of regional soil maps. Austral. J. Sci. 11: 49-50. Oct. 1948. 475 Au72
- 17919 UTESCHER, K., ABEL, A., and DCMKE, W. Klima und bodenbildung. Ztschr. f. Pflanzenernähr., Düngung. Bodenk. 40: 206-237. Ref. 1948. 384 Z343A
- 17920 VEENENBOS, J. S. Soil mapping and the withering symptoms in the border area of the Noordoost polder. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandbl. 5: 340-344. July 1948. 12 N383M  
Includes effects of drought.

#### SOIL MANAGEMENT

- 17921 ALDRICH, D. G., JR. Fertilizer and cultivation effects on soil structure. (Abs.) Amer. Cyanograms 1(7): 2-4. Fall, 1948. 381 Am392
- 17922 FOLLONI, A. Return fertility to the soil. (In Italian.) Agr. Modenese 4(16): 3-4. Nov. 1/15, 1948. 16 Ag8255
- 17923 HAYS, O. E., BAY, C. E., and HULL, H. H. Increasing production on an eroded loess-derived soil. Amer. Soc. Agron. J. 40: 1061-1069. Ref. Dec. 1948. 4 Am34P
- 17924 HEINRICHS, P. Die bodenpflege im obstbau. Saat u. Ernte 3(10): 1-2. Oct. 1948. 18 Sa12
- 17925 HEUSON, R. Schwinden der bodenkulturfraft unserer heimat Erde. Unser Hof 1948: 55-57. 18 Un72 Germany.
- 17926 MAIA, D. Let us protect the soil! (In Portuguese.) Chacaras e Quintais 78: 611-612. Nov. 15, 1948. 9.2 C34
- 17927 MOON, W. T. Better treatment of land and better use of water. Tex. Farming & Citric 25(4): 15, 23. Oct. 1948. 80 T31
- 17928 PERSSON, A. Research and soil mapping give valuable directions with regard to liming and fertilizing of the soil; some experiences from Halland. (In Swedish.) Växt-Närings-Nytt 4(4): 12-14. 1948. 57.8 V47
- 17929 SALTER, R. M. Soil management for corn production. Washington, U. S. Bur. Plant Indus., Soils, and Agr. Engin., 1948. 12 p. 1.965 A2Sa3
- 17930 SCHUH, VON. Heilung kranker böden. Land, Wald u. Garten 3: 136. June 1948. 18 L22
- 17931 SHOOBRIDGE, H. W. The law of return. Organic Farming Digest 1(7): 19-21. Oct./Dec. 1947. 56.8 Or32  
Soil management.
- 17932 SIMONS, A. J. Final hints on soil improvement. Gard. Work Amateurs 69: 77-80. Oct. 23, 1948. 80 G1627
- 17933 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Cherokee County, Kansas. Manhattan, 1948. 22 p. 1.96 L22Phck
- 17934 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Cloud County, Kansas. Manhattan, 1948. 25 p. 1.96 L22Phcl
- 17935 U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Crawford County, Kansas. Manhattan, 1948. 20 p. 1.96 L22Phcr
- 17936 U. S. SOIL CONSERVATION SERV. Production, income & expenses, sandy soils, central Wisconsin. Progress report. La Crosse, 1948. 7 p. 1.9605 P9432
- 17937 WAYGOOD, E. R. Soil conditioning. United Florists News 3(12): 5, 7. Dec. 1948. 80 Un33
- 17938 WHITLOCK, R. Welsh hill farms. Two great problems: deficient soil and difficult terrain. Field 192: 430-431. Oct. 16, 1948. 10 F45
- 17939 AGUIRRE ARREGUI, A. Tierras buenas y tierras malas. Asoc. de Ingen. Agron. Rev. 20(81): 9-12. June 1948. 290.9 As73
- 17940 ALBRECHT, W. A. Some rates of fertility decline. Better Crops Plant Food 32(8): 21-24, 42. Oct. 1948. 6 B46
- 17941 ALINARI, E. Contribution to a knowledge of the effects of vegetation on forest soils in our climate. (In Italian.) Ital. Forest. e Mont. 3: 212-224. July/Aug. 1948. 99.8 It12
- 17942 ANTONIANI, C. On the estimation of the phosphate requirement of land. (In Italian.) B. dell'Agr. 82(22): 1. Nov. 12, 1948. 16 B87
- 17943 ARNOULD, C. Comment choisir ses engrais maraichers pour une terre sablonneuse. Acclimatation 75: 240. Nov. 13, 1948. 14 Ac2
- 17944 AUFHAMMER, G. Lohnt sich die handelsdüngung noch? Landw. Wchnbl. 138: 350. Nov. 6, 1948. 18 L2338
- 17945 AUGUSTE. Pratique des engrais verts dans les vergers. Rev. Agr. de l'Afrique du Nord 46: 511-512. Oct. 8, 1948. 80 R326  
Also in Voix des Colons 30(1473): 1. Oct. 11, 1948. 24 V85
- 17946 BADISCHE ANALIN & SODA-FABRIK. Bedeutung der ernterückstände für die ernährung am beispiel des zwischenfrucht-futterbaues. Ztschr. f. Pflanzen-ernähr., Düngung, Bodenk. 41: 127-132. 1948. 384 Z343A
- 17947 BARILI, P. Grain. (In Italian.) Terra [Firenze] 59(44): 2. Oct. 31, 1948. 16 T274  
Fertilization.
- 17948 BARROS, W. D. DE. Burning of fields and brush. (In Portuguese.) Criação e Vet. 2: 226. Dec. 1947. 49 C86
- 17949 BEAUCHAMP, C. E. Relación entre la vitalidad de los campos de caña y su respuesta a la aplicación de abonos. Zafra 1(9): 11-13. Sept. 1948. 65.8 Z12
- 17950 BERGE, H. Die kalkdüngung des grünlandes. Landw. Wchnbl. f. Westfalen u. Lippe 105: 286. Nov. 6, 1948. 18 L2346
- 17951 BERNARD, P. L'avoine et sa fumure rationnelle. Monit. Agr. 1(47): 2. Dec. 5, 1948. 14 M744
- 17952 BERNARD, P. Les engrais sur prairies sont toujours payants. Monit. Agr. 1(44): 2. Nov. 14, 1948. 14 M744
- 17953 BERNARD, P. Transformer l'azote engrais en azote fourrage. Monit. Agr. 1(46): 2. Nov. 28, 1948. 14 M744
- 17954 BIRRE, A. La croisade de l'humus: reflexions sur le plus grave des problèmes agricoles. Colon Franç. de Tunisie 58(2067): 1, 3. Oct. 2, 1948. 24 C712
- 17955 BODE, L. Il y a fumiers et fumiers. Terre Maroc. 20: 288-290. Nov. 1948. 24 T44
- 17956 BOULD, C., and CATLOW, E. A manurial experiment on blackcurrants. Progress report II. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 52-58. 84 B77
- 17957 BOXMAN, W. H. The value of soil tests. Amer. Rose Mag. 8: 99-100. Nov./Dec. 1948. 80 Am327A
- 17958 BRADFIELD, R. Soil productivity and the potential food supply of the United States. Acad. Polit. Sci. Proc. 23: 135-146. Jan. 1949. 280.9 Ac1
- 17959 BRÜNE, F. Die düngung der moorböden nach neuzeitlichen grundsätzen. Beitr. Agrarwiss. 1: 24-37. Ref. n. d. 18 B392
- 17960 BRUNNEMANN, F. C. Crowbar holes on the farm. Tex. Farming & Citric. 25(4): 20. Oct. 1948. 80 T31  
Fertilizer application.
- 17961 BURR. Zur herbstdüngung. Württemb. Wchnbl. f. Landw. 115: 256-257. Sept. 18, 1948. 18 W96
- 17962 CARR, C. E. A natural conditioner for depleted soils. Tex. Farming & Citric. 25(6): 22. Dec. 1948. 80 T31  
Panaka.
- 17963 CHARLES, P. G. Comment enrichir nos sols en matières organiques. Rev. Agr. de l'Afrique du Nord 46: 498-499. Oct. 1, 1948. 80 R326
- 17964 CHATEL, C. Quelques notions techniques sur la fumure au pal. Réveil Agr. 57: 293. Oct. 1, 1948. 14 R322  
Trees.
- 17965 CROWTHER, E. M. Fertilizer practice, 1939-1948. Inst. Corn & Agr. Merchants. J. 1: 143-155. Autumn 1948. 10 In7

#### Soil Fertility



- 17966 DELONG, W. A. Four P's in progress. Better Crops Plant Food 32(8): 17-20, 42-44. Oct. 1948. 6 B46  
Podzol, pH, phosphorus and potash.
- 17967 DODERO, J. P. Sobre abonos; principales causas de las deficientes producciones—lo más acertado. Siembra 1948(8/9): 56-57. Aug./Sept. 1948. 15 S11
- 17968 ENGELS, O. Restlose erschliessung aller wirtschaftseigenen nährstoffe und der nährstoffreserven des bodens. Saat u. Ernte 2(10): 1-3. Oct. 1947. 18 Sa12
- 17969 FERNANDES GARCIA, A., and MILLER, E. V. Ensayos de fertilidad de algunos suelos ecuatorianos formados por cenizas volcanicas, usando cultivos en macetas. Quito, Imp. de la Universidad, 1947. 13 p. 56.23 F39
- 17970 FICKENDEY, E. Zur bedeutung der grüdüngung bei tropischen dauerkulturen, insbesondere bei ölpalmen (*Elaeis guineensis* Jacq.). Bot. Oecon. 1: 142-154. Sept. 1948. 450 B6528  
English, French, and Russian summaries.
- 17971 FOLLONI, A. Restore fertility to the land. (In Italian.) Bologna Agr. 1(41): 1. Oct. 30, 1948. 16 B634
- 17972 FONDARD, L. Les engrais et la production. Réveil Agr. 57: 289-290. (To be cont.) Oct. 1, 1948. 14 R322
- 17973 FOURGEAUD, J. Les engrais de mélange. Defense Agr. de la Beauce et du Perche 45: 326-327. Dec. 1, 1948. 14 D36  
Also in Vaucluse Agr. 4(80): 12. Dec. 1, 1948. 14 V26
- 17974 FRIEND, W. H. Fertilizer experts with citrus at the Valley Experiment Station. Tex. Farming & Citric. 25(4): 8-9. Oct. 1948. 80 T31
- 17975 FRÖHLICH, E. Der kopfdünger und seine anwendung. Land, Wald u. Garten 3: 121-122. May 1948. 18 L22
- 17976 GALLETTI, A. C. Practices complementary to fertilization. (In Italian.) Terra [Firenze] 59(41): 2. Oct. 10, 1948. 16 T274  
Application of fertilizer.
- 17977 GALLETTI, A. C. The technique of fertilizing: phosphate application. (In Italian.) Terra [Firenze] 59(37): 2. Sept. 12, 1948. 16 T274
- 17978 GALLETTI, A. C. Wheat and the technique of localized fertilization. (In Italian.) Terra [Firenze] 59(43): 2. Oct. 24, 1948. 16 T274
- 17979 GEISLER, L. Ein gründüngungsversuch. Allg. Forstz. 3: 176-177. Sept. 1, 1948. 99.8 AL52
- 17980 GERICKE, S. Die ernährung der pflanzen. Natur u. Nahr. 2(17/18): 3-4. Sept. 1948. 80 N218
- 17981 GERICKE, S. Phosphorsäure-düngungsfragen. Ztschr. f. Pflanzenernähr., Düngung, Bodenk. 40: 237-268 1948. 384 Z343A
- 17982 GILCH. Oberflächen- oder krumendüngung. Saat u. Ernte 2(11): 6. Nov. 1947. 18 Sa12
- 17983 GORI, D. Economic effects of phosphate fertilizers on grain. (In Italian.) Agr. Tosc. 3: 345-346. Nov. 1948. 16 Ag827
- 17984 GRIEBL, H. Die düngung der weinrebe im hausgarten. Nach der Arbeit 24: 3. Nov. 23, 1948. 80 N11
- 17985 GUGGEMOS, L. Stickstoffeinsatz zur ernte 1949 [Germany]. Landw. Wchnbl. 138: 341. Oct. 30, 1948. 18 L2338
- 17986 GULIAKIN, I. V., KLECHKOVSKIĖ, V. M., and MURATOVA, E. V. Fertilizers for tomatoes grown in greenhouses. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Trud. 1948 (35): 27-44. 1948. 106 M852T  
Studies in mineral nutrition.
- 17987 HAREN, S. Fumures des arbres fruitiers. J. de la France Agr. 4: 1001. Dec. 10/16, 1948. 14 J829
- 17988 HAURIE, M. La chaux—son importance agricole. Vaucluse Agr. 4(79): 13. Nov. 15, 1948. 14 V26  
Use as fertilizer.
- 17989 HILF, R. B. Zur düngung der pappeln. Pap-peljahrb. 1947: 55-64. 99.8 P19
- 17990 HOWARD, SIR A. The nitrogen problem. Organic Farming Digest 1(5): 4-5. Apr./June 1947. 56.8 Or32
- 17991 ILS. Beitrag zur rebendüngung. Wurttemb. Wchnbl. f. Landw. 115: 348. Nov. 20, 1948. 18 W96
- 17992 JOUGAN, E. À propos de la fumure des arbres fruitiers au pal injecteur. Acclimatation 75: 236. Nov. 6, 1948. 14 Ac2
- 17993 KELLEY, V. W. Fertilizing apple orchards in Illinois. (Sum.) Iowa State Hort. Soc. Proc. 82: 86-90. 1948. 81 Io9  
Discussion, p. 90-91.
- 17994 KHANNA, K. L., and RAHEJA, P. C. The relative efficiency of water requirements in relation to manurial treatments. Indian J. Agr. Sci. 17: 371-376. Ref. Dec. 1947. 22 Ag831  
Sugarcane.
- 17995 KING, A. Conservation farming made possible by nitrogen. Victory Farm Forum 33: 8. Dec. 1948. 281.8 F226
- 17996 KNOSP, G. Quelques remarques sur la fumure du blé. B. des Engrais 20: 446-447. Oct. 1948. 57.8 B87
- 17997 KÖHLER, R. Die individuelle kalkung unserer äcker. Oberösterr. Landwirtschaftsztg. 20(47): 1. Nov. 17, 1948. 19 Ob23
- 17998 LAFOREST, G. La fertilisation du sol. Unité Paysanne 3(158): 1, 4; (162): 1, 4. Nov. 13, Dec. 11, 1948. 14 Un3
- 17999 LADD, L. L. Grass and legumes add fertility and organic matter. Dakota Farmer 68(21): 16, 17. Nov. 6, 1948. 6 D14
- 18000 LANCASTER, R. R. Rotating crops with pastures. Gulf Coast Cattleman 14(7): 8-9. Sept. 1948. 43.8 C63  
For the restoration of organic matter in soil.
- 18001 LANDRY, B. Le problème de la matière organique dans les sols du Québec. Agriculture [Quebec] 5: 216-229. Sept. 1948. 7 Ag82
- 18002 LÉTRANGE, J. Del'azote à bon marche grâce aux engrais verts. Jura Agr. 1948(12): 1. Oct. 15, 1948. 14 J97
- 18003 LEWIS, D. E. Food for thought in feeding vegetables grown commercially. Tex. Farming & Citric. 25(6): 18-19. Dec. 1948. 80 T31
- 18004 LONGNECKER, T. C., and GRAY, C. Response of winter grains to fertilizer. Victory Farm Forum 33: 14-15. Dec. 1948. 281.8 F226
- 18005 MCGEE, F., CHRISTIE, F., and GILNA, C. A. Liquid fertilizer applications. San Luis Val. Farmer & Stockman 3(4): 5, 12. Dec. 1948. 6 Sa52
- 18006 MARINI, G. Phosphate-magnesia fertilizers for cereals and vegetables. (In Italian.) Agr. Veneziana 4(20): 2. Oct. 16/31, 1948. 16 Ag8264
- 18007 MARSHALL, J. G. Sodium a nutrient element in growth of cotton. Victory Farm Forum 33: 7-8. Dec. 1948. 281.8 F226
- 18008 MAURON, P. L'équilibre de la fumure. Avenir Paysan de la Haute-Marne 4(78): 1. Dec. 3, 1948. 14 Av3
- 18009 MITSCHERLICH, E. A. An der grenze der ertragssteigerung. Ztschr. f. Pflanzenernähr., Düngung, Bodenk. 40: 193-200. 1948. 384 Z343A  
Field crops.
- 18010 MONTES V., R. Es posible eliminar y sustituir la práctica de la quema de los campos, uno de los factores que más daño causan a la economía nacional. Nicaragua. Min. de Agr. y Trab. Divulg. Agropecuarias 1(4/5): 4-7. Feb./Mar. 1948. 8 N51D
- 18011 NATIONAL FERTILIZER ASSOCIATION. PLANT FOOD RESEARCH COMMITTEE. Report, 1947-1948. Washington, 1948. 69 p. 57.9 N2132
- 18012 NELSON, R. T. Is it better to plow phosphate under? Through Leaves 26(5): 31-32. Sept./Oct. 1948. 66.8 T41  
For sugar beets.
- 18013 NELSON, W. L., and HARTWIG, E. E. Profitable soybean yields in the Southeast. What's New in Crops & Soils 1(2): 8-9, 21. Nov. 1948. 6 W55  
Fertilization.
- 18014 NICHOLAS, D. J. D., and CATLOW, E. Manurial experiments on vegetable crops. XI-XIII. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 103-126. 84 B77
- XI, Effects of farmyard manure and of various fertiliser treatments on cauliflower; XII, Effects of farmyard manure and of various fertiliser treatments on three varieties of potato; XIII, Effects of farmyard manure and other manurial treatments on potato and cauliflower: seasons 1946 and 1947.



18015 O'GRADY, L. J. The effect of alfalfa and sugar beet residues on following crops. Thesis, Michigan State College. Inst. d'Oka. Contrib. 5, 79 p. Québec, 1949. 101 Ok1C

18016 ORTH, A. Bodenuntersuchung, ein noch viel zu wenig beachteter faktor bei der rentabilität des landwirtsch. betriebes. Wurttemb. Wchnbl. f. Landw. 115: 336. Nov. 13, 1948. 18 W96

18017 PARIS, H. Rentabilité des engrais. Jura Agr. (n. s.) 1948(15): 1. Dec. 1, 1948. 14 J97

18018 PARR, C. H., and BOSE, R. D. Phosphate manuring of legumes for increased food and fodder. III. Indian Farming 8: 267-275. June 1947. 22 In283

18019 PENDERS. What the grassland needs now; care and fertilizing. (In Dutch.) Boer en Tuinder 2(98): 1-2. Nov. 20, 1948. 12 B632

18020 PLANT, W., HEWITT, E. J., and NICHOLAS, D. J. D. Some effects of lime and fertilisers on potatoes on a strongly acid soil as determined by visual symptoms and chemical tests. II. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 97-103. 84 B77

18021 PRINCIPI, P. Characteristics of lands for culture of fruit trees. (In Italian.) Humus 4(10): 8-12. Oct. 1948. 16 H88

18022 RANJAN, S. Problems of mineral nutrition and crop yield in relation to Indian soils. Indian Bot. Soc. J. 27: 1-9. Feb. 1948. 450 J821  
Chiefly grain.

18023 RAPALLO ABAD, J. Abonado del garbanzo. Agr 45: 166. Sept. 1948. 33.23 Ag3

18024 ROGERS, W. S., and GREENHAM, D. W. Swards and manures for top fruit. (Sum.) Grower 30: 1013, 1015. (Cont.) Dec. 11, 1948. 286.83 M34

18025 RUHNKE, G. N. Organic matter, the life of the soil. Ontario. Dept. Agr. B. 459, 12 p. June 1948. 101 On8B

18026 RUSSELL, SIR E. J. Effects of fertilizer on quality of farm crops. Victory Farm Forum 33: 11-12. Dec. 1948. 281.8 F226

18027 SAUCHELLI, V. El empleo de fertilizantes para cosechas superiores. Hacienda 43(12): 48-49. Dec. 1948. 6 H11

18028 SCHANDERL, H. Schultz-Lupitz und unsere heutige düngernot. Saat u. Ernte 3(1): 2. Jan. 1948. 18 Sa12

18029 SCHLAGER, H. Zeitgemässe kalkdüngung. Salzburg. Bauer 3(38): 6-7. Sept. 16, 1948. 19 Sa3

18030 SCHMITZ-MANCY. Düngerpflge als grundlage der bodengare. Saat u. Ernte 2(12): 1-2. Dec. 1947. 18 Sa12

18031 SELL, O. E. Fertilizer and nitrogen for winter grazing. Victory Farm Forum 33: 7. Dec. 1948. 281.8 F226

18032 SETZ, J. Die herbstbestellung. Landw. Wchnbl. 138: 263. Sept. 18, 1948. 18 L2338  
Fertilizer application.

18033 SHOOBRIDGE, H. W. The magic of humus. Organic Farming Digest 1(6): 25-28. July/Sept. 1947. 56.8 Or32

18034 SIDWELL, R. W. Fundamentals of manuring. Amateur Gard. 65(3368): 19. Nov. 30, 1948. 80 Am13

18035 SIMONS, A. J. Adding food to the soil. Gard. Work Amateurs 69: 127-129. Nov. 6, 1948. 80 G1627

18036 STREMMER. Forstböden und waldböden. Forstw., Holzw. 1: 260-267. Dec. 1/15, 1947. 99.8 F7793

18037 THALER, H. Düngung im gemüsegarten. Nach der Arbeit 24: 6. Nov. 23, 1948. 80 N11

18038 THOMAS, W. Basic problem same in use of trace elements. Victory Farm Forum 33: 10-11. Dec. 1948. 281.8 F226

18039 VOLANTI, U. Restore phosphorus to the soil to increase production and lower costs. (In Italian.) Agr. Bresciana 1(39): 1. Sept. 29, 1948. 16 Ag89

18040 WHITEHEAD, S. B. If your soil contains too much lime. Pop. Gard. 50: 350. Nov. 13, 1948. 80 G1622

18041 WHITEHEAD, S. B. Soil testing and liming. Pop. Gard. 50: 320. Nov. 15, 1948. 80 G1622

18042 WITTMANN, R. Versäumt nicht die kalkdüngung! Landw. Wchnbl. 138: 352. Nov. 6, 1948. 18 L2338

18043 YOUNG, T. W. Soil moisture and the citrus tree root system. Citrus Indus. 30: 3, 11, 14-15. Jan. 1949. 80 C49

## Soil Tilth and Tillage

18044 ADAMS, H. Prepare for spring crops. Poultry [London] 103: 356. Nov. 2, 1948. 47.8 P869

18045 BALDONI, R. Agronomical considerations on plowing. (In Italian.) Macch. e Motori Agr. 6: 453-465. Oct. 1948. 58.8 M13

18046 BARILI, P. The cardinal points of production: water and sun. (In Italian.) Terra [Firenze] 59(42): 2. Oct. 17, 1948. 16 T274  
Drainage and plowing.

18047 BAUER, A. Mehrverdienst im dorfe. Salzburg. Bauer 3(38): 7. Sept. 16, 1948. 19 Sa3  
Tillage and fertilizer application in vegetable culture.

18048 BRECEY, J. Les défoncements au jardin fruitier. Monit. Agr. 1(39): 18. Oct. 10, 1948. 14 M744

18049 DECOUX, L. Mécanisation et humus. Indus. Agr. et Aliment. 65: 195-202. July/Sept. 1948. 383 As7  
Summary in German and English.

18050 DEMBINSKI, J. Sinn und zweck des hackens. Berufs Gärt. 1(1/2): 2. Jan./Feb. 1948. 80 B463

18051 DENOZIERE, M. Les travaux aratoires dans les vergers. Voix des Colons 30(1470): 2. Sept. 20, 1948. 24 V85

18052 DÍAZ UNGRÍA, C. Concursos de arada en Castilla. B. de Divulg. Ganad. [Valladolid] 5(18): 49-51. June 1948. 49.9 Sp12

18053 FACKLER, E. Bodenbearbeitung im herbst. Landw. Wchnbl. 138: 313. (Concl.) Oct. 16, 1948. 18 L2338

18054 FRANCE, R. A. Is deep digging worth while? Amateur Gard. 65(3361): 20. Oct. 12, 1948. 80 Am13

18055 JOUGAN, E. Le défoncement au jardin potager-fruitier. Acclimatation 75: 268. Dec. 18, 1948. 14 Ac2

18056 KOPETZ, L. M. Wie tief wird geackert? Pflug 1: 162-163. Oct. 1948. 19 P48

18057 KOPPISCH, H. Bodenbearbeitung geht vor düngung. Unser Hof 1948: 115-116, 118. 18 Un72

18058 KREICH, M. Ackerarbeiten vor winter. Neue Mitt. f. die Landw. 3: 421-423. Nov. 25, 1948. 18 N39

18059 LEIBMANN, F. Der kultivator und seine arbeitswerkzeuge. Saat u. Ernte 2(10): 12. Oct. 1947. 18 Sa12

18060 MCENEANEY, P. O. Fallows and autumn cultivation. Beet Grower 2: 320-322. Oct. 1948. 66.8 B392

18061 MELROSE, A. J. The horse's place in agriculture. Organic Farming Digest 1(7): 17-19. Oct./Dec. 1947. 56.8 Or32

18062 OLIVIER, L. Thatch grass for land protection. (In Afrikaans.) Landbouweekblad 30(1523): 46. Sept. 15, 1948. 23 L232

18063 PATTJE, D. J. Experiences and advice. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 523-526. Nov. 1948. 12 N383M  
Tillage.

18064 RHEINWALD, H. Sachgemässes pflügen. Drescher u. Pflüger 1(3): 1. Sept. 1948. 48.8 D81

18065 RIGBY, W. E. The fallacy of fallowing. Organic Farming Digest 1(8): 31-32. Jan./Mar. 1948. 56.8 Or32

18066 RUSSELL, E. W. Deep tillage not a dangerous operation under most conditions. Power Farming Austral. 57(7): 25-29. July 1948. 58.8 P87

18067 SCHÖBER, K. Ackerung und bodengare. Landwirtschaft 1948: 247-249. Sept. 18, 1948. 19 L235

18068 SIMONS, A. J. To dig or not to dig? Gard. Work Amateurs 69: 156-159. Nov. 13, 1948. 80 G1627

18069 STEIN, H. Gedanken zum grünlandumbruch. Saat u. Ernte 3(10): 8. Oct. 1948. 18 Sa12

18070 STUART, H. Is it necessary to plough? Organic Farming Digest 1(5): 24-27. Apr./June 1947. 56.8 Cr32

## Drainage, Irrigation, Water Supply, and Flood Control

18071 AGRANOVSKII, A. The struggle with drought. (In Russian.) Molod. Kolkhoz. 15(8): 16-18. Aug. 1948. 110 M73

Development of irrigation in the Russian Republic.

18072 ASGHAR, A. G., and DHAWAN, C. L. The quality of the drain, river and canal waters of the Punjab. Indian J. Agr. Sci. 17: 377-388. Dec. 1947. 22 Ag831



- 18073 BERTÉ, M. The Italian irrigation program. (In Italian.) Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti 3(1): 8-9. Jan./Mar. 1948. 58.9 C33
- 18074 BORRACCI, P. An innovation in the field of overhead irrigation. (In Italian.) Macch. e Motori Agr. 6: 471-475. Oct. 1948. 58.8 M13
- 18075 BROWN, J. J. Will hollow aluminum pipe revolutionize prairie farming? Farm & Ranch Rev. 44(12): 12-13. Dec. 1948. 7 F223
- Irrigation pipes for sprinkler systems.
- 18076 CLARK, F. L. More moisture more grass. Hoard's Dairyman 94(1): 26. Jan. 10, 1949. 44.8 H65
- 18077 CLARK, N. M. Irrigated pastures; profitable new methods of watering dry lands in the Southwest are bringing back livestock that cash crops chased off. Country Gent. 118(11): 36, 122-124. Nov. 1948. 6 C833
- 18078 COOLS, R. H. A. Strijd om den grond in het lage Nederland; het proces van bedijking, inpoldering en droogmaking sinds de vroegste tijden [Fight for the land in the Netherlands; the process of diking, inpoldering, and draining since earliest times]. Rotterdam, Nijgh & Van Ditmar, 1948. 300 p. 290 C77
- 18079 CUSHMAN, G. Aluminum pipe for irrigation. Iowa State Hort. Soc. Proc. 82: 296-297. 1948. 81 I09
- 18080 DEITEMEYER, C. The Mirage Flats are growing up. Nebr. Farmer 90(23): 1, 8. Dec. 4, 1948. 6 N27
- Irrigation project in the Niobrara River Basin in Sheridan County.
- 18081 DEVOTO, B. Water runs downhill. Woman's Day 12(4): 42-43, 106-113. Jan. 1949. 321.8 W842
- Floods and soil erosion.
- 18082 DE YOUNG, L. Irrigation opens new methods of farming for South Carolina. Agrarian 8(1): 5-6. Nov. 1948. 276.8 Ag8
- 18083 EGYPT. PUBLIC WORKS DEPT. Development of cultivation in Egypt and Sudan. Cairo, Govt. Press, 1948. 12 p. 55 Eg9D
- Irrigation.
- 18084 ELEAZER, J. M. Irrigation: flowing south-east. Amer. Plant Food Council. J. 11(3): 8-9, 14. July/Sept. 1948. 57.8 P692
- 18085 ELLISON, W. J., JR. McNary Dam construction. East. Oreg. Wheat League. Proc. (1947)20: 75, 77, 79, 81, 83, 85, 87-88. 1948. 59.9 Ea73
- 18086 FARBER, M. Consideraciones sobre el agua de riego. Campo y Suelo Argentino 32(384): 52. Oct. 1948. 9 C15
- 18087 FRECKMANN, W. Warum heute mehr bewässerung? Deut. Landw. Presse 71(3): 4-5. Aug. 21, 1948. 18 D482
- 18088 FRIEDMANN, G. Fertirrigation. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 39. June 1948. 41.8 Z7
- 18089 FRITZSCHE, C. Zwei ernten im jahr durch künstliche beregnung. Land, Wald u. Garten 3: 134-135. June 1948. 18 L22
- 18090 FROST, W. T., and WORK, R. A. The use of snow survey data for agricultural planning. Agr. Engin. 29: 490-492. Nov. 1948. 58.8 Ag83
- 18091 GAUDIO, F. S. DE. The work of reclaiming Sila. (In Italian.) Ital. Forest. e Mont. 3: 259-265. Sept./Oct. 1948. 99.8 It12
- 18092 GOWEN, A. Bench leveling takes hold on Plains. Southwest Crop & Stock 2(12): 12, 49. Dec. 1948. 6 So8942
- For irrigation.
- 18093 HAPP, S. C. Sedimentation in the Middle Rio Grande Valley, New Mexico. Geol. Soc. Amer. B. 59: 1191-1216. Dec. 1948. 403 G29
- 18094 ISRAELSON, O. W., LAURITZEN, C. W., and MAUGHAN, J. H. Research in irrigation and drainage basic to agricultural prosperity in Utah. Farm & Home Sci. [Utah Sta.] 9(4): 13-14. Dec. 1948. 100 Ut1F
- 18095 JARL, F. Watering experiments. (In Swedish.) (Sum.) Lantmannen 32: 790. Nov. 27, 1948. 11 L234
- 18096 JONES, B. E., and HELLAND, R. O. Index to river surveys made by the United States Geological Survey and other agencies, revised to July 1, 1947. U. S. Geol. Survey. Water-Supply Paper 995, 145 p. 1948. 407 G29W
- 18097 KALLBRUNNER, H. Voraussetzungen für die Marschfeldbewässerung. Landwirtschaft 1948: 250-251. Sept. 18, 1948. 19 L235
- 18098 KNAUS, K. D. To sprinkle or not to sprinkle? Through Leaves 26(5): 36-37. Sept./Oct. 1948. 66.8 T41
- 18099 LANDRY, B. De l'eau sur commande. B. des Agr. 44(12): 12-14, 21. Dec. 1948. 7 B872
- Irrigation.
- 18100 LANGDON, J. L. Irrigating with electricity. Farm Electrification 2(6): 22. Nov./Dec. 1948. 335.8 F224
- 18101 LARSEN, C. V. S. Mechanization of drainage work. (In Danish.) Hedeselsk. Tidsskr. 69: 213-220. Oct. 15, 1948. 11 H35
- 18102 LUCAS, R. Sub-irrigation on the Gehring farms. Iowa State Hort. Soc. Proc. 82: 292-294. 1948. 81 I09
- 18103 MADRAS PRESIDENCY. PUBLIC WORKS DEPT. Administration report (without administrative accounts), 1946/47. II. Irrigation. Madras, 1948. 108 p. 55.9 In262
- 18104 MATONI, W. Das wasser kommt vor dem pflug. Saat u. Ernte 2(11): 5. Nov. 1947. 18 Sa12
- Irrigation program for Germany.
- 18105 MUÑOZ VÁZQUEZ, J. Historia breve de la irrigación. Chapingo 25: 120-122, 134. Sept. 1948. 102 C36
- 18106 PEKERT, F. W. Irrigation with sprinklers and portable pipe. Agr. Engin. 29: 541, 544. Dec. 1948. 58.8 Ag83
- 18107 PREGO, A. J. Almacenamiento y conservación del agua en el suelo. Cooperación [Buenos Aires] 16 (1032): 3. Aug. 20, 1948. 280.28 C7876
- 18108 PUPPINI, G. Possibilities of the Emilian region obtaining irrigation water from the River Po. (In Italian.) Genio Rur. 11: 315-320. Oct. 1948. 281.8 R522
- 18109 REBOUR, H. Les facteurs de base pour l'établissement d'un plan d'irrigation. Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc. 18: 236-238. July/Aug. 1948. 80 F9482
- 18110 RENAUD, M. Le controle de l'irrigation. Voix des Colons 30(1470): 2. Sept. 20, 1948. 24 V85
- 18111 ROY, P. E. Travaux d'amélioration et de drainage des terres avec tracteurs déblayeurs. Agriculture [Quebec] 5: 258-268. Sept. 1948. 7 Ag82
- 18112 SAWTELL, M. Water for the inland. Organic Farming Digest 1(11): 16-18. Oct./Dec. 1948. 56.8 Or32
- Australia.
- 18113 SCHULZ, G. Die Zuldersee. Unser Hof 1948: 62-63. 18 Un72
- Drainage.
- 18114 SCHWENNESEN, A. W. Irrigating young citrus trees; uneven results from bucket watering; advantages of early spray or furrow irrigation. Farmer & Dairyman 40(501): 39. Oct. 1948. 23 F225
- 18115 STEELE, C. F. Western Canada reclamation will spur irrigation prospects. Farm & Ranch Rev. 44(12): 11. Dec. 1948. 7 F223
- 18116 STOUT, W. W. Sprinkler irrigation moves ahead as engineering promotes wider acceptance. Tex. Livestock J. 7(11): 6, 59. Nov. 15, 1948. 49 T29
- 18117 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SECRETARY. Irrigation agriculture in the West. U. S. D. A. Misc. P. 670, 39 p. Nov. 1948. 1 Ag84M
- 18118 U. S. SOIL CONSERVATION SERV. Summary of snow survey data in Columbia Basin within the States of Idaho, Washington, Montana, Nevada, Wyoming and British Columbia, including all past measurements. n. p., 1947. 118 p. 1.96 R31Sch
- 18119 U. S. SOIL CONSERVATION SERV. DIV. OF IRRIGATION. Federal-State cooperative snow surveys; summary of snow surveys in Arizona, 1938-1948, by C. Houston. Reno, Nev., 1948. 18 p. 1.96 R31Fs2
- 18120 U. S. SOIL CONSERVATION SERV. DIV. OF IRRIGATION. Federal-State cooperative snow surveys; summary of snow surveys in Nevada, 1910-1948, by C. Houston and G. Ghiglieri. Reno, 1948. 88 p. 1.96 R31Fsne
- 18121 VEIHMAYER, F. J. Sprinkling for irrigation. Calif. Agr. Expt. Sta. C. 388, 19 p. Nov. 1948. 100 C12S
- 18122 VELATTA, M. Prefabricated manufactures for reclamation and irrigation projects. (In Italian.) Genio Rur. 11: 329-347. Oct. 1948. 281.8 R522
- 18123 WETZEL, A. Zur wasserversorgung unserer obstbäume. Obst- u. Gartenbau 3: 68-69. Nov. 1, 1948. 80 Ob72



18124 YOSHIOKA, K., and MIYAKE, A. Studies on the irrigation of rice plant. 3. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 27-29. June 1947. 22.5 N684

#### Erosion and Erosion Control

18125 ALLEN, L. C. Peanuts brought soil blowing. Prog. Farmer, Tex. Ed. 63(11): 17, 117. Nov. 1948. 6 T311

Wind erosion control in Hockley and Terry Counties.

18126 ALLIS, J. A. Rates of runoff for the design of conservation structures in the Central Great Plains of Nebraska and Kansas. U. S. Soil Conserv. Serv. SCS-TP-69, 30 p. Aug. 1948. 1.96 Ad6Tp

18127 AZEVEDO, O. V. Soil erosion and agriculture in the Azores. (In Portuguese.) Azores. Comis. Reguladora dos Cereais. B. 8: 53-58. 2. sem. 1948. 15 Az6

18128 BEADLE, N. C. W. Studies in wind erosion. IV. N. S. Wales Soil Conserv. Serv. J. 4: 160-170. Oct. 1948. 56.9 N472

18129 BENNETT, H. H. Land facts. Soil Conserv. 14: 131-133. Jan. 1949. 1.6 So3S  
Soil erosion research at the Red Plains Soil Conservation Experiment Station, near Guthrie, Okla.

18130 BENNETT, H. H. Practical conservation in action. Washington, U. S. Soil Conserv. Serv., 1948. 10 p. 1.96 Ad62

18131 BENNETT, H. H. Soil conservation. Washington, U. S. Soil Conserv. Serv., 1948. 13 p. 1.96 Ad62

18132 BENNETT, H. H. Soil conservation and peace among men. Washington, U. S. Soil Conserv. Serv., 1948. 11 p. 1.96 Ad62

18133 BLANDFORD, C. M. Erosion control in the Hunter Valley. N. S. Wales Soil Conserv. Serv. J. 4: 151-156. Oct. 1948. 56.9 N472

18134 BROMFIELD, L. Soil conservation. Acad. Polit. Sci. Proc. 23: 126-134. Jan. 1949. 280.9 Acl

18135 BROWNING, G. M., and others. Investigation in erosion control and the reclamation of eroded land at the Missouri Valley Loess Conservation Experiment Station, Clarinda, Iowa, 1931-42. U. S. D. A. Tech. B. 959, 88 p. Ref. Oct. 1948. 1 Ag84Te

R. A. Norton, A. G. McCall, and F. G. Bell, joint authors.

18136 BRUNE, G. M. Rates of sediment production in midwestern United States. U. S. Soil Conserv. SCS-TP-65, 40 p. Aug. 1948. 1.96 Ad6Tp

18137 BUIE, T. S. All at one lick. Better Crops Plant Food 32(8): 25-30, 48-49. Oct. 1948. 6 B46  
Soil conservation.

18138 CHAMBERS, T. B. Contractors aid conservation. Soil Conserv. 14: 126-129. Jan. 1949. 1.6 So3S

Soil Conservation and equipment.

18139 CONNOLLY, E. G. A review of a few selected soil conservation research studies in the U. S. A. I. N. S. Wales Soil Conserv. Serv. J. 4: 171-177. Oct. 1948. 56.9 N472

18140 DAVEY, A. J. Soil conservation or soil destruction--which? Review of work of Soil Conservation Council by representative of Federated Farmers. Straight Furrow 7(12): 4-5. Oct. 1948. 281.8 St8

18141 EISENHOWER, M. S. We need a conservation policy--that works! (Sum.) Farm Policy Forum 1(4): 13-15. Oct. 1948. 281.8 F2274

18142 FERNÁNDEZ HERNÁNDEZ, E. La erosión del suelo y prácticas sencillas para evitarla. Confed. de Cám. Nac. de Com. Carta Semanal 12(604): 16-17. Dec. 18, 1948. 286.8 C76

18143 FERNÁNDEZ Y FERNÁNDEZ, R. La erosión: un nuevo terror. Rev. de Econ. 11(11): 37-40. Nov. 15, 1948. 280.8 R3293  
Mexico.

18144 FERRER, M. E. Durante fuerte aguacero se aprecia trabajo de conservación de suelos. Puerto Rico. Agr. Col. Ext. Carta Mens. 5(9): 3. Dec. 1948. 275.29 P96Ca

18145 FYNN, C. A. Conservación de los suelos. Rev. de Agr. [San José] 20: 421-422. Nov. 1948. 8 Es1

18146 HARDIN, C. M. Some questions raised by Dr. Bennett's views. Farm Policy Forum 1(4): 5-7. Oct. 1948. 281.8 F2274

18147 HILL, H. O. Erosion with strip cropping and terracing in the Texas Blacklands. U. S. Soil Conserv. Serv. SCS-TP-72, 16 p. Nov. 1948. 1.96 Ad6Tp

18148 HUSTON, J. J. Soil conservation demonstration at Hawkesbury College. Hawkesbury Agr. Col. J. 45: 149-151. Oct. 30, 1948. 276.8 H31

18149 INDIANA. DEPT. OF PUBLIC INSTRUCTION. Conservation of soils; unit IV. Of conservation education. Ind. Dept. Pub. Instr. B. 173-4, 40 p. Ref. 1947. 275.9 In2B

18150 JEAN, U. L'époutement du sol. Agriculture [Quebec] 5: 230-232. Sept. 1948. 7 Ag82

18151 LIEBERMANN, J. El avance del desierto; el suelo, fuente y riqueza de la vida y el ejército de la tierra, primera defensa de la nación. Rev. Mens. Ilus. B. A. P. 31(372): 26-27. Nov. 1948. 9 R326

18152 LINDE, R. J. VAN DER. Soil blowing in the Netherlands in 1947. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 494-506. Nov. 1948. 12 N383M

18153 MCKINNEY, J. Farm face lifting, a miracle of machines. Prog. Farmer, Miss.-Ark.-La. Ed. 63 (11): 17, 116. Nov. 1948. 6 So81

Farm demonstration at Tupelo, Miss.

18154 MARTIN, R. Erosion on the run. Farmer-Stockman 61(11): 3. Nov. 1948. 6 Ok45

18155 MIEDEMA, P. H. Soil blowing in Limburg. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 526-530. Nov. 1948. 12 N383M

18156 MUNDIE, E. W. The soil conservation districts. Commonwealth 15(12): 10, 12. Dec. 1948. 280.8 C732

18157 NIEVES, M. La historia de un puñado de tierra. Puerto Rico. Agr. Col. Ext. Carta Mens. 5(7): 2-3. Oct. 1948. 275.29 P96Ca

Soil conservation on a Puerto Rican farm.

18158 ORANGE, G. E. Soil conservation at Narromine. N. S. Wales Soil Conserv. Serv. J. 4: 178-181. Oct. 1948. 56.9 N472

18159 OVERDIJKINK, G. A. Planting trees for wind erosion control. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 538-544. Nov. 1948. 12 N383M

18160 PATTJE, D. J. Blowing of our sandy soils. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 506-512. Nov. 1948. 12 N383M

18161 PAULSEN, E. La erosión de los suelos. Bolsa de Com., Rosario. Rev. 36(884): 11-13. Nov. 15, 1948. 287 R71

18162 PEARSON, A. W. Soil erosion. Organic Farming Digest 1(4): 7-8. Jan. 1947. 56.8 Or32

18163 PEERLKAMP, P. K. Soil structure and wind erosion in south east Groningen. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 512-518. Nov. 1948. 12 N383M

18164 PETTIT, G. M. Recent development at Wellington Soil Conservation Research Station. N. S. Wales Soil Conserv. Serv. J. 4: 182-186. Oct. 1948. 56.9 N472

18165 REBORA, B. The world has an annual loss of millions of tons of agricultural land. (In Italian.) Humus 4(10): 29-31. Oct. 1948. 16 H88

18166 SAWYER, E. J. The dangers of soil erosion. Country Life [London] 104: 1154-1156. Dec. 3, 1948. 80 C83

18167 SCHNELL, R. Quelques observations sur l'érosion des sols dans la région forestière d'Afrique occidentale. Notes Africaines 40: 15-17. Oct. 1948. 475 N84

18168 SCOTT, A. Le contrôle de l'érosion. Agriculture [Quebec] 5: 233-239. Sept. 1948. 7 Ag82

18169 SIME, P. Soil conservation districts. North-east. Game Conf. Proc. 1948: 96-97. 412.9 N44

18170 STRUBLE, R. G. Conservation in the Brandywine Valley. Soil Conserv. 14: 134-138. Jan. 1949. 1.6 So3S

In Chester County, Pennsylvania.

18171 SUDAN GOVERNMENT. RURAL WATER SUPPLIES AND SOIL CONSERVATION BOARD. Report for years 1946-47. 1948? 22 p. 56.9 Su22

18172 TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Thirty years of pioneering in soil conservation work by the Texas Extension Service, 1903 to 1933. College Station, 1948. 32 p. 275.2 T31Th

18173 TRUMP, F. Conservation--or desolation. Cornell Countryman 46(3): 9, 20. Dec. 1948. 6 C81



18174 U. S. SOIL CONSERVATION SERV. Manual de conservación de suelos. *Germinal* 9(67): 3-25. (To be cont.) July 1948. 8 G31

18175 U. S. SOIL CONSERVATION SERV. Suggestions and training outline for foreign technicians studying soil conservation with the United States Soil Conservation Service. I. Rev. Washington, 1948. 13 p. 1.9604 Su3

18176 U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Missouri River watershed, interim survey report; Osage River watershed, Missouri and Kansas; program for runoff and waterflow retardation and soil erosion prevention. Milwaukee? 1948. 115 p. 1.9605 M69

18177 U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Upper Mississippi River watershed, interim survey report: Whitewater River, Minnesota. Program for runoff and waterflow retardation and soil erosion prevention. n. p., 1948. 11 p. 1.9605 Up6

18178 WALL, E. L. Run-down farm gets one-day face-lifting. *Acco Press* 26(12): 10-11. Dec. 1948. 6 Ac2

In McLennan County, Texas.

18179 WEBB, H. W. T. Storm drains, gully control and soil holding vegetation in soil conservation practice. *Nyasaland Agr. Q. J.* 7: 44-55. July 1948. 24 N983

18180 WEBB, K. B. Weeping lovegrass stills Vermont's sandblows. *Better Crops Plant Food* 32(8): 11-13, 41-42. Oct. 1948. 6 B46

18181 ZUUR, A. J. Soil blowing. (In Dutch.) *Netherlands. Landbouwwoorlichtingsdienst. Maandbl.* 5: 518-522. Nov. 1948. 12 N383M

#### Sanitation

18182 KRUPICKA, J. Gedanken zur frage der gesundhaltung des bodens. *Berufs Gärt.* 1(6): 3-4. June 1948. 80 B463

18183 MCCULLY, K. F. Soil treatment for control of carnation diseases. *Carnation Craft* 7: 5-6. Oct. 1948. 80 C21

#### MATERIALS FOR SOIL IMPROVEMENT

18184 BOULD, C., and CATLOW, E. Studies on the comparative effects of dung, compost and inorganic fertilisers on crops and soil. I. Effects on yields and composition of potatoes and cauliflower. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 61-70. 84 B77

18185 OBREGON GAVIDIA, P. El peligro en el uso de las fórmulas comerciales de abonos. *Agro* 3(1/2): 41-42. Jan./Apr. 1948. 9.95 Ag83

18186 PEROTTI, R. Biochemical fertilization of the soil with scoria and screenings from lignite gazogene. (In Italian.) *Pisa. U. Facol. di Agr. Ann. (n. s.)* 8: 130-155. Nov. 10, 1948. 105.4 P672

18187 RIEL, J. A. VAN. Artificial and natural fertilizer. (In Dutch.) *Netherlands. Landbouwwoorlichtingsdienst. Maandbl.* 5: 464-466. Oct. 1948. 12 N383M

18188 ROQUETANIÈRE, H. Le prix de revient du fumier naturel et du fumier artificiel. *Voix des Colons* 30(1480): 1-2. Nov. 29, 1948. 24 V85

#### Primary Materials

18189 BÉRUBÉ, B. Comment se fabriquent les engrais chimiques. *Foyer Rur. [Montreal]* 8(2): 2-3, 24. Nov. 1948. 7.F83

18190 DAUGHTREY, R. Phosphates from ancient animals. *Tex. Farming & Citric.* 25(5): 11. Nov. 1948. 80 T31

18191 FONTAN, A. La conservation des nitrates. *Réveil Agr.* 57: 339. Nov. 15, 1948. 14 R322  
Also in *Vaucluse Agr.* 4(79): 13. Nov. 15, 1948. 14 V26

18192 GAMARRA DULANTO, L. Que fertilizantes sintéticos deberfan fabricarse en el país? *Vida Agr. [Lima]* 25: 755, 757, 759-763. (To be cont.) Sept. 1948. 9.8 V66

18193 PRASAD, M., and DANGE, G. V. Plant and wood ashes, a potential source of commercial potash. *Forest Res. Inst. Dehra Dun. Indian Forest Leaflet* 95, 27 p. Dehra Dun, 1947. 99.9 F768

18194 PRESTON, A. M.F.A. plant foods for Missouri farms. *Mo. Farmer* 40(12): 8, 9, 11. Dec. 1948. 6 M696

Fertilizers made for Missouri soils and crops.

18195 STAEHLER, H. Was ist salzsaures ammoniak? *Landw. Wchnbl.* 138: 428. Dec. 11, 1948. 18 L2338

#### Secondary and Minor Element Materials

18196 AUGESTAD, S. Magnesium deficiency in fruit trees. (In Norwegian.) *Norsk Hagetidend* 64: 26-27. Feb. 1, 1948. 80 N81

18197 HEWITT, E. J., JONES, E. W., and NICHOLAS, D. J. D. The production of molybdenum deficiency in plants in sand culture with special reference to Brassica and tomato crops. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 70-81. Ref. 84 B77

18198 WALLACE, T. Note on the control of magnesium deficiency of apples. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 58-61. 84 B77

#### Mixed Fertilizers and Fertilizer Technology

18199 FRANCK, O. Mixing fertilizer and lime. (In Swedish.) *Växt-Närings-Nytt* 4(4): 15. 1948. 57.8 V47

18200 RAMOS, B. H. M. Rapid fertilizer analysis. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7: 177-180. July/Sept. 1948. 9.2 Ag892

#### Fertilizer Statistics

18201 CHOQUETTE, C. D'où viennent les engrais chimiques? *B. des Agr.* 44(12): 10-11. Dec. 1948. 7 B872

18202 DOETSCH, J. F. Chilean nitrate supplies for 1949 crops. *Victory Farm Forum* 33: 2. Dec. 1948. 281.8 F226

18203 FUDGE, J. F., and OGIER, T. L. Commercial fertilizers in 1947-48. *Tex. Agr. Expt. Sta. B.* 705, 48 p. Sept. 1948. 100 T31S

18204 GARCIA GUIJARRO, L. Cuota de fertilizantes nitrogenados para España. *Agr. Levantino* 14(166): 3-5. Sept. 1948. 15 Ag85

18205 HALEY, G. A. China's great need for chemical fertilizers. *China Trade Monthly* 2: 532-533, 566-567. June 1948. 286.8 C44

18206 LAIPPLE, E. Gewinnen, lagern, aufbereiten, pflegen und verwerten von wirtschaftselgenen düngemitteln. *Saat u. Ernte* 3(1): 8. Jan. 1948. 18 Sa12

18207 LODGE, F. S. World nitrogen shortage continues. *Chem. & Engin. News* 27(1): 22-23. Jan. 3, 1949. 381 J825N

18208 OVERSETH, O. E. Prospective fertilizer supply for vegetable growers. *West. Grower & Shipper* 20(1): 28. Dec. 1948. 280.38 W52

18209 SAUCHELLI, V. Some fertilizer problems from the industry point of view. *Amer. Fert.* 109(9): 7-9, 28. Oct. 30, 1948. 57.8 Am3

18210 SCHENK, P. J. Fruit, vegetables and potash in Alsace. (In Dutch.) *Groenten en Fruit* 4: 248-249. Oct. 28, 1948. 80 G89

18211 SCHINEIS, W. Die düngerversorgung—ein transportproblem. *Neue Mitt. f. die Landw.* 3: 286. Sept. 21, 1948. 18 N39  
Germany.

18212 SCHÖHL, D. Die lage auf dem düngemittelmarkt. *Landwirtschaftsblatt Weser-Ems* 95: 222-223. Oct. 30, 1948. 18 L2345

18213 ZEE, Z. Z. Chemical fertilizers; the key to rehabilitation of China's agriculture and industry. *China Trade Monthly* 2: 768-770, 805-807. Sept. 1948. 286.8 C44

#### Manures and Composts

18214 BOUCHER, MRS. D. W. Compost—the garden gold mine. *Ontario Hort. Socs. Ann. Rpt.* 1947: 42. 1948. 82 On825

18215 BRYANT, J. M. Rabbit manure. *Rabbit Raiser* 4(2): 15. Oct. 1948. 40.28 R11

18216 A CALL to reason—the battle of compost. *Cloroben News* 1948, 4 p. Fall 1948. 381 C62  
Composting of garbage and sewage.

18217 COX, K. H. The backyard compost heap. *Organic Farming Digest* 1(8): 25-27. Jan./Mar. 1948. 56.8 Or32

18218 DROMONT. Réduisez le prix de vos fumures par l'emploi des gadoues. *J. de la France Agr.* 4: 977. Nov. 12/18, 1948. 14 J829

18219 FLAWN, L. N. Start composting now. *Amateur Gard.* 65(3366): 19. Nov. 16, 1948. 80 Am13



18220 GROOTENHUIS, J. A. V.A.M. compost on sandy and peat soil. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 5: 331-339. July 1948. 12 N383M

18221 HOPKINS, D. P. Humus is the tonic a tired soil needs. Smallholder 80(2016): 7. Nov. 19, 1948. 10 Sml

18222 JAENTSCHE, Kompostpflege. Land, Wald u. Garten 3: 18-19. Jan. 1948. 18 L22

18223 LAL, B. N. Some manurial trials in the United Provinces with town-compost. Indian Farming 8: 289-290. June 1947. 22 In283

18224 NAKAE, T., and others. On the amount and ratio of manure excreted by cattle and horses. Japan Fert. Weekly 69: 2-3. Sept. 15, 1948. 57.8 F417  
E. Tsunoda, Y. Kubota and M. Saito, joint authors.

18225 RUSCHMANN, G. Versuche zur biologischen prüfung von humusdüngern und humusstoffen. Ztschr. f. Pflanzenernähr., Düngung, Bodenk. 41: 97-109. 1948. 384 Z343A

18226 SAUERLANDT, W. Untersuchungen über den gehalt an humus und nährstoffen sowie über die wuchsstoffwirkung von jauche und harn. Ztschr. f. Pflanzenernähr., Düngung, Bodenk. 41: 109-126. Ref. 1948. 384 Z343A

18227 SCHEFFER, Fragen zur stallmistgewinnung. Landwirtschaftsblatt Weser-Ems 95: 237-238. Nov. 15, 1948. 18 L2345

18228 SCHWENNINGER, O. E. Wertvoller dünger aus müll. Deut. Landw. Presse 71(5): 4. Sept. 4, 1948. 18 D482

18229 STEINMETZ, K. E. If you like doing things the easy way, follow this recipe for compost. Flower Grower 35: 842, 861. Nov. 1948. 80 M72

18230 TRUMAN, H. A. Municipal composting in New Zealand. Organic Farming Digest 1(11): 9-13. (To be cont.) Oct./Dec. 1948. 56.8 Or32

## FORESTRY

### FOREST ECONOMICS AND POLICY

18231 AVILA HERNANDEZ, M. Aspecto general del problema forestal de México. Chapingo 24: 75-76. Aug. 1948. 102 C36

18232 BARTH, J. La répercussion de la crise actuelle sur le marché des bois. Bois et Scieries 54: 868-869. Nov. 11, 1948. 99.81 B632

18233 BEER, F. Fortschrittliche forstwirtschaft—ein beitrag zur deutschen demokratisierung. Forstw., Holzw. 2: 1-4. Jan. 1, 1948. 99.8 F7793

18234 BLAVET, A. Prudence. Bois et Scieries 54: 835-836. Nov. 4, 1948. 99.81 B632  
Wood prices.

18235 BOULTER, E. L., and others. Forest taxation in Nova Scotia. Canad. Soc. Forest Engin. Marit. Sect. Ann. Rpt. (1947) 11: 25-45. Ref. 1948. 99.8 C167A

H. J. A. Grant, B. R. Alexander, and R. S. Johnson, joint authors.

18236 BRITISH GUIANA. FORESTRY DEPT. Empire forests and the war, British Guiana. Georgetown, 1947? 48 p. 99.65 B77

18237 BUCHHOLZ, E. Die forst- und holzwirtschaft der Sowjet-Union nach dem kriege. Reichsinst. f. Forst- und Holzwirtsch. Mitt. 4, 13 p. Ref. Apr. 1948. 99.9 R273  
English and French summaries.

18238 CHAPMAN, G. W. Forestry in Iraq. Unasylva 2: 251-253. Sept./Oct. 1948. 99.8 Unl

18239 CHRISTODOLOPOULOS, A. The reforestation. (In Greek.) Dasos 1(4): 3-10. 1947. 99.8 D262

18240 ECONOMOPOULOS, A. The present situation of the national forestry. (In Greek.) Dasos 1(4): 11-21. 1947. 99.8 D262

18241 ERNST, Ertragslage und preispolitische ziele der forstwirtschaft. Forst u. Holz 3: 181-184. Oct. 1, 1948. 99.8 F7724  
Germany.

18242 GAGNE, E. Pour ou contre la forêt. B. des Agr. 44(10): 10-11, 42-43. Oct. 1948. 7 B872  
Canada.

18243 GIBSON, J. M., and others. Report on forest taxation in New Brunswick. Canad. Soc. Forest Engin. Marit. Sect. Ann. Rpt. (1947) 11: 46-52. 1948. 99.8 C167A

E. L. Howie, A. T. Pelletier, and D. E. Nickerson, joint authors.

18244 GODWIN, G. Forests and forestry in the Canadian economy. Forestry Chron. 24: 245-251. Dec. 1948. 99.8 F7623

18245 GREAT BRITAIN. FORESTRY COMMISSION. Empire forests and the war; statistics. London, H. M. Stationery Off., 1948. 18 p. 99.73 G79

18246 HEIL, B. Verstärkter pappelanbau vom standpunkt der holzwirtschaft gesehen. Pappeljahrb. 1947: 72-77. 99.6 P19

18247 KOKKINIA, S. The forests and their utilities. (In Greek.) Dasos 1(4): 40-42. 1947. 99.8 D262

18248 MAYER, H. Holzforschung und forstwirtschaft. Forst u. Holz 3: 205-206. Nov. 1, 1948. 99.8 F7724

18249 MILLSAPS, P. Growing and harvesting timber pays in Mississippi. Prog. Farmer, Miss.-Ark.-La. Ed. 63(11): 19. Nov. 1948. 6 So81

18250 NEUHAUS, E. Besprechung über die forst- und holzwirtschaftliche lage im landesforstamt Niedersachsen am 20. oktober 1948. Forst u. Holz 3: 217-222. Nov. 15, 1948. 99.8 F7724

18251 NEUHAUS, E. Industrielles rechnungswesen in der zentralgelenkten wirtschaft und in der freien verkehrswirtschaft. Forst u. Holz 3: 195-196. Oct. 15, 1948. 99.8 F7724

18252 RICHARDSON, W. R. Industry underwrites America's forest future. South. Lumberman 177(2225): 346, 348, 350-352. Jan. 3, 1949. 99.81 So82

18253 RING, R. Gedanken über die bildung einer deutschen forstlichen zentralinstanz. Forst u. Holz 3: 229-231. Dec. 1, 1948. 99.8 F7724

18254 ROTTIN, B. Les meilleurs moyens de production sont lourdement taxés. Bois et Scieries 54: 860-862. Nov. 11, 1948. 99.81 B632

18255 ROTTIN, B. Quelques impressions recueillies dans les milieux du bois. Bois et Scieries 54: 779-780. Oct. 21, 1948. 99.81 B632  
France.

18256 SCHRÖDER, Fertigungsgemeinschaften. Forstw., Holzw. 2: 142-143. May 1, 1948. 99.8 F7793

18257 SCHROTTER, V. Die stockholzrodung in der freien wirtschaft. Forst u. Holz 3: 197. Oct. 15, 1948. 99.8 F7724

18258 SMITH, C. M. Planned regeneration of N. Z. indigenous forests. Austral. Timber J. 14: 365-366, 368, 373, 375. July 1948. 99.81 Au7  
New Zealand.

18259 SUKACHEV, V. N. Present situation and problems of Soviet forestry. (In Russian.) Akad. Nauk SSSR. Inst. Lesa. Trud. 2: 7-13. 1948. 99.9 Ak1

18260 SUOMEN METSÄTIETEELLINEN SEURA. On sales of standing timber and sales by delivery contract from state forest. (In Finnish.) Silva Fenn. 63, 64 p. 1948. 99.9 F497  
English summary.

18261 TKACHENKO, M. E. Problems in the rationalization of Soviet forestry and the problems of forest economics. (In Russian.) Akad. Nauk SSSR. Inst. Lesa. Trud. 2: 14-23. 1948. 99.9 Ak1

18262 TRESCKOW. Welchen einfluss soll der Staat auf den privatwald nehmen? Forst u. Holz 3: 211. Nov. 1, 1948. 99.8 F7724  
Germany.

18263 TRIFONE, R. The establishment of a fidei-commissum on privately owned forests. (In Italian.) Riv. di Diritto Agr. 23/26: 153-157. Apr./Sept. 1947. 16 R524  
Italy.

18264 U. S. EXTENSION SERV. A suggested outline for a working relationship between a State forestry department and a State extension service. Washington? 1948. 1 p. 1.913 A2Su386

18265 VASIL'EV, P. V. Present day economic problems of forestry and of the lumber industry in U. S. S. R. (In Russian.) Akad. Nauk SSSR. Inst. Lesa. Trud. 2: 43-71. 1948. 99.9 Ak1

18266 WATTS, L. F. The forest situation in the United States. Timber News 56: 369-370, 374. Oct. 1948. 99.81 T482



18267 WHITNEY, T. P. Enorme super-proyecto de reforestación para combatir sequía en regiones agrícolas de Rusia. Rev. del Café 4(6): 27. Nov. 1948. 8 R3295

#### Legislation

18268 HARVE, P. Der bodenerwerb der holzindustrie- und holzhandels-gesellschaften in Finnland. (In Finnish.) Acta Forest. Fenn. 52(1): 1-115. Ref. 1947. 99.9 F492

German summary.

18269 LECLÈRE, A. À propos du caractère agricole des exploitations forestières. Bois 65(18): 1, 3. Oct. 10, 1948. 99.82 B632

Legislation.

18270 PUTTKAMMER. Forstliche rechts- und verwaltungsprobleme der gegenwart. Forstw., Holzw. 2: 42-45. Feb. 1, 1948. 99.8 F7793

#### FOREST DESCRIPTION AND RESOURCES

18271 ANDERSON, D. A. Forest resources of Texas. South. Lumberman 177(2225): 219-222. Jan. 3, 1949. 99.81 So82

18272 BEICHLER, W. K. Forests of North Carolina. South. Lumberman 177(2225): 210-213. Jan. 3, 1949. 99.81 So82

18273 COULTER, C. H. Forest resources in the "Land of Flowers" [Florida]. South. Lumberman 177(2225): 199-202. Jan. 3, 1949. 99.81 So82

18274 DEAN, G. W. Virginia's forest resources. South. Lumberman 177(2225): 223-224. Jan. 3, 1949. 99.81 So82

18275 EHWARD, E. Forstliche standortskartierung. Forstw., Holzw. 2: 98-106. Apr. 1, 1948. 99.8 F7793

18276 FLORY, C. H. Forests in South Carolina. South. Lumberman 177(2225): 215-216. Jan. 3, 1949. 99.81 So82

18277 HAZARD, J. O. Tennessee forests. South. Lumberman 177(2225): 217-219. Jan. 3, 1949. 99.81 So82

18278 HORN, E. F. The Amazon Hylea, some notes on its development. Caribbean Forester 9: 361-366. Oct. 1948. 1.9622 T2C23

Spanish translation, p. 366-372; French summary. Includes forests.

18279 HOWES, P. G. North America's tropical forest. Turtos News 26: 184-188. (To be cont.) Aug. 1948. 442.8 T86

Royal Palm State Park, Florida.

18280 JACQUIOT, C. Les réserves artistiques et biologiques de la Forêt Domaniale de Fontainebleau. Pro Natura 1: 92-96. Oct. 1948. 279.8 P942

18281 LANG, F. H. Forest resources of Arkansas. South. Lumberman 177(2225): 197-198. Jan. 3, 1949. 99.81 So82

18282 LEGETT, A. Mississippi's forests. South. Lumberman 177(2225): 209-210. Jan. 3, 1949. 99.81 So82

18283 MENDEZ, S. B. Estimación del valor de los montes naturales de la isla Almirón y su sustitución por montes artificiales. Asoc. de Ingen. Agron. Rev. 20(81): 18-21. June 1948. 290.9 As73

18284 MILITZER, M. Baumgrenzen in der lausitz. Forstw., Holzw. 2: 148-152. May 15, 1948. 99.8 F7793

18285 MIXON, J. E. Louisiana's forestry plan. South. Lumberman 177(2225): 207-209. Jan. 3, 1949. 99.81 So82

18286 NEWLAND, H. B. Kentucky forests and forestry. South. Lumberman 177(2225): 206-207. Jan. 3, 1949. 99.81 So82

18287 NORSENG, G. The forest on the mountain range across from Rondane. (In Norwegian.) Skogbrukeren 23: 232-234. Oct. 15, 1948. 99.8 Sk54

18288 SAYERS, W. B. The forest resources of West Virginia. South. Lumberman 177(2225): 224-225. Jan. 3, 1949. 99.81 So82

18289 SHIRLEY, A. R. Forest resources of Georgia. South. Lumberman 177(2225): 203-205. Jan. 3, 1949. 99.81 So82

18290 SKOTT, P. Forestry in southern Portugal. (In Danish.) Dansk Skovfor. Tidsskr. 33: 443-459. Oct. 1948. 99.8 D23

18291 STAPELFELD, F. Die waldverhältnisse in England. Holz-Zentbl. 73: 103. Mar. 27, 1947. 99.81 H742

18292 STAUFFER, J. M. Alabama's green dollars. South. Lumberman 177(2225): 195-197. Jan. 3, 1949. 99.81 S682

18293 U. S. FOREST SERV. Forest regions of the United States; principal trees of the forest region. Rev. Washington, 1948. Map. 1 F76Fr

18294 U. S. FOREST SERV. National forest areas. Washington, 1948. 16 p. 1 F765

Statistics.

18295 U. S. FOREST SERV. SOUTHERN FOREST EXPERIMENT STATION. Forest statistics for the Arkansas Ozarks. U. S. Forest Serv. South. Forest Expt. Sta. Forest Survey Release 57, 23 p. Sept. 1948. 1.9 F7624F

18296 WADSWORTH, F. H. Five years of forest research on the north coast of Puerto Rico. Caribbean Forester 9: 373-376. Oct. 1948. 1.9622 T2C23

Spanish translation p. 376-380.

French summary.

18297 WITHERSPOON, J. C. The oldest planting. South. Lumberman 177(2225): 242. Jan. 3, 1949. 99.81 So82

Planted in 1873 in Georgia.

#### Individual Genera and Species

18298 ANAGNOSTOPOULOS, P. Liquidambar orientalis. (In Greek.) Dasos 1(2/3): 18. 1947. 99.8 D262

18299 ATTOLINI, J. Las especies forestales en la cuenca del Papaloapan. Rev. de Econ. 11(11): 29-34. Nov. 15, 1948. 280.8 R3293

18300 DIAS, U. DE M. The cork tree on the Island of São Miguel. Portugal. Junta Nac. da Cortiça. B. 10: 293-297. Apr. 1948. 309.9 J96

English summary, p. XLV.

18301 FOXÁ, J. DE. El pino "Insignis" en Vizcaya. Cooperación 7(78): 6-7. Aug. 1948. 280.28 C7875

18302 GARNIER, B. L'arbre du paradis. Notes Africaines 39: 17. July 1948. 475 N84

Peucedanum fraxinifolium.

18303 GAULT, A. Les peupliers à croissance rapide. Monit. Agr. 1(46): 13. Nov. 28, 1948. 14 M744

18304 GRYSPPOS, P. Beech and fir. (In Greek.) Dasos 1(2/3): 32-34. 1947. 99.8 D262

18305 GRYSPPOS, P. The Schinus. (In Greek.) Dasos 1(1): 74-76. 1947. 99.8 D262

Titles in English and French.

18306 GUINIER, MEUNIER, and REGNIER. Progrès à réaliser dans la culture et l'utilisation du peuplier. Action Forest. et Piscicole 135: 1-2. Oct. 1948. 99.8 Ac8

18307 HILF, H. H. Pappelarten und pappelbetriebsarten. Pappeljahrb. 1947: 8-33. 99.8 P19

18308 KINDT, S. Japanese larch. (In Danish.) Dansk Skovfor. Tidsskr. 33: 495-519. Nov. 1948. 99.8 D23

18309 KOSSENAKIS, G. The Greek fir. (In Greek.) Dasos 1(1): 25-54. 1947. 99.8 D262

Titles in English and French.

18310 LIMA, A. C. P. DE. Cork trees in the provinces of Minho and Douro Litoral. (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 10: 78-80, 129-131, 187-189. Dec. 1947-Feb. 1948. 309.9 J96

English summary, p. XII, XXI-XXII, XXIX.

18311 LOETSCH, F. Eigenschaften und verwendungen der aspe in den USA. Pappeljahrb. 1947: 88-98. 99.8 P19

18312 MACDONALD, A. Teak: aristocrat of hardwoods. South. Lumberman 177(2225): 158-160. Jan. 3, 1949. 99.81 So82

18313 MACHADO, F. F. The cork oak of Monchique. (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 10: 410. June 1948. 309.9 J96

18314 MINCKLER, L. S. Shipmast vs. common black locust in southern Illinois. U. S. Forest Serv. Central States Forest Expt. Sta. Note 45, 1 p. June 1948. 1.9 F76252S

18315 NATIVIDADE, J. V. Scientific principles of cork oak culture. Portugal. Junta Nac. da Cortiça. B. 10: 170-176, 225-231, 279-284. Feb.-Apr. 1948. 309.9 J96

English summary, p. XXVII, XXXVI, XLIV.

18316 NEVES, C. M. B. The cork oak in the environs of Lisbon; notes on the phytogeography of Quercus suber L. (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 10: 62-64, 115-117. Dec. 1947-Jan. 1948. 309.9 J96

English summary, p. XI, XVIII.

18317 PAPPELJAHRBUCH, 1947. Hannover, 1947. 150 p. 99.8 P19



18318 PAVARI, A. What is the Canadian Poplar? (In Italian.) Humus 4(9): 7-11. Sept. 1948. 16 H88  
Species of the Black American Poplar.

18319 POOLE, A. L. Recent researches on southern beech. Austral. Timber J. 14: 377, 379, 381, 383, 385, 387. July 1948. 99.81 Au7  
New Zealand.

18320 TSITSAS, S. The cedar. (In Greek.) Dasos 1(4): 30-33. 1947. 99.8 D262

18321 WAGNER. Die pflege der korbweiden. Land, Wald u. Garten 3: 146. June 1948. 18 L22

18322 WITZGALL, L. Die weisstanne, ein dem verschwinden naher waldbaum. Allgäuer Bauernbl. 16: 303-305. Nov. 26, 1948. 18 AL53

#### FOREST ADMINISTRATION AND MANAGEMENT

18323 ANDREWS, S. Timber takes time and attention. Ark. Farmer 50(12): 3. Dec. 1948. 6 Ar42  
Management.

18324 BIHMANN, H. H. Forestry labor. (In Danish.) Dansk Skovfor. Tidsskr. 33: 520-543. Nov. 1948 99.8 D23

18325 BLANCKMEISTER, J. Auswirkung der über-nutzungen auf das nachhaltsgefüge. Forstw., Holzw. 1: 197-199. Oct. 1, 1947. 99.8 F7793

18326 BRONSART, E. V. Überlegungen über leistungsteigerung im walde. Forst u. Holz 3: 236-237. Dec. 1, 1948. 99.8 F7724

18327 BULL, H., and others. Harvest-cutting studies in east Texas loblolly and shortleaf pine. South Lumberman 177(2225): 282, 284-286, 288. Jan. 3, 1949. 99.81 So82

E. B. Williams and G. M. Judson, joint authors.

18328 DROUVAS, B. The exploitation of the chaparral region species. (In Greek.) Dasos 1(1): 57-60. 1947. 99.8 D262

Titles in English and French.

18329 ECKER, J. Ausserordentliche waldnutzung. Brauwelt 1948: 219-221. May 27, 1948. 390.8 B732

18330 FOXA, J. DE. Una posible revolución en el campo de la técnica forestal. Cooperación 7(79): 7. Sept. 1948. 280.28 C7875

18331 GLADES, K. Labor is key to Bavarian utilization. Wood [Chicago] 3(11): 30-31, 48. Nov. 1948. 99.82 W859

18332 GODARD, D. Les hommes dans la forêt coloniale. Bois et Scieries 54: 793-795. (Cont.) Oct. 21, 1948. 99.81 B632

18333 GRUSCHOW, G. F. First cutting cycle completed on the Olustee experimental forest. South Lumberman 177(2225): 139-140. Jan. 3, 1949. 99.81 So82

18334 HALL, S. J. "Regulating practice on small forest properties". J. Forestry 46: 934. Dec. 22, 1948. 99.8 F768

18335 HARDTNER, Q. T. Harvesting practices—key to permanent operation. South Lumberman 177(2225): 119-120. Jan. 3, 1949. 99.81 So82

18336 HAWES, E. T. Is a management cruise really necessary? J. Forestry 46: 895-896. Dec. 1948. 99.8 F768

18337 HENNIG, E. Die holzaushaltung in der forstwirtschaft. Forstw., Holzw. 2: 193-195. July 1, 1948. 99.8 F7793

18338 HOFFMEISTER, J. Zur frage der änderung der niederschläge bei be- und entwaldung von grösseren flächen. Forstw., Holzw. 1: 274-276. Dec. 1/15, 1947. 99.8 F7793

18339 JESSEN, A. Forsthäushalt oder forstbilanz? Forstw., Holzw. 2: 38-40. Feb. 1, 1948. 99.8 F7793

18340 LIHTONEN, V. Regulation of Finnish forestry in the light of removal and volume of rental cut. (In Finnish.) Acta Forest. Fenn. 53(3): 1-131. Ref. 1947. 99.9 F492

English summary.

18341 LIHTONEN, V. Über die strukturformen der forsteinrichtung in Finnland. (In Finnish.) Acta Forest. Fenn. 52(4): 1-154. Ref. 1947. 99.9 F492

German summary.

18342 LINNAMIES, O. Untersuchungen über die waldvorräte und den zustand der wälder der verschiedenen grossen waldbetriebe. (In Finnish.) Acta Forest. Fenn. 52(3): 1-64. Ref. 1947. 99.9 F492

German summary.

18343 MCGOWIN, N. F. Labor in southern lumber in 1948. South Lumberman 177(2225): 229-231. Jan. 3, 1949. 99.81 So82

18344 MASON, E. G. The social approach to sustained yield management. J. Forestry 46: 890-894. Dec. 1948. 99.8 F768

With note by A. C. Cline.

18345 NEW ZEALAND. STATE FOREST SERV. Annual report of the director of forestry for the year ended 31st March, 1948. Wellington, 1948. 80 p. 99.9 N49A

18346 REYNOLDS, R. R. Ten years of selective timber management. South Lumberman 177(2225): 121-124. Jan. 3, 1949. 99.81 So82

18347 SAMUELSON, E. Youth is needed in the forest. (In Swedish.) Skogen 35: 234. Oct. 15, 1948. 99 Sk51  
Forest labor.

18348 SCHMITZ-LENDERS, B. Ertragsleistung der pappel ausserhalb des waldes. Pappeljahrb. 1947: 65-69. 99.8 P19

18349 SIEBER, G. Höhere leistung bei geringem kraftaufwand in der forstwirtschaft. Forstw., Holzw. 2: 134-135. May 1, 1948. 99.8 F7793

18350 SMITH, L. F. 35 years of development in second-growth longleaf. South Lumberman 177(2225): 149-152. Jan. 3, 1949. 99.81 So82

18351 SONLEY, G. Surveys and working plans for operating companies. Forestry Chron. 24: 260-262. Dec. 1948. 99.8 F7623

18352 THEBAEUS, C. About the administration and distribution of associated forests. (In Greek.) Dasos 1(1): 77-87. 1947. 99.8 D262  
Titles in English and French.

18353 TREBING, R. Zeitgemässe forsteinrichtung. Forstw., Holzw. 2: 118-120. Apr. 15, 1948. 99.8 F7793

18354 UGANDA. FOREST DEPT. Annual report for the year ended 31st December, 1947. Entebbe, 1948. 49 p. 99.9 Ugl

18355 WYNNE-EDWARDS, J. C. Dedication or expropriation; ways in which the State could help woodland owners. Field 192: 572-573. Nov. 20, 1948. 10 F45

18356 ZIEGER, E. Untersuchungen über die abhängigkeit des arbeitsaufwandes beim reppeln vom schälwiderstand. Forstw., Holzw. 2: 166-174. June 1/15, 1948. 99.8 F7793

#### Farm Woodlands

18357 BARRACLOUGH, K. E. The management of farm woodlands in New Hampshire. N. H. Agr. Col. Ext. B. 88, 67 p. Ref. June 1948. 275.29 N45

18358 BLOOMFIELD, H. Triumph of the trees. Country Gent. 118(11): 31, 107-110. Nov. 1948. 6 C833

Windbreaks in the Great Plains.

18359 CREIGHTON, G. W. I. Forestry in Nova Scotia and the importance of small woodlots. (Abs.) Roy. Canad. Inst. Proc. 13: 41-42. 1948. 517 T63P

18360 DENCH, E. A. Tree break ensures fur farm being snug in winter. Fur Trade J. Canada 26(3): 20, 24-26. Nov. 1948. 410 F965

18361 ENGEL, B. Les plantations automnales des parties boisées. Monit. Agr. 1(48): 13. Dec. 12, 1948. 14 M744

18362 GAULT, A. Le reboisement par les agriculteurs. Avenir Paysan de la Haute-Marne 4(77): 2. Nov. 19, 1948. 14 Av3

18363 HOFFMEISTER, J. Windschutz durch wald. Forstw., Holzw. 2: 227-229. Ref. Aug. 1, 1948. 99.8 F7793

18364 HÖRICH, T. Verbesserung der holzabfuhr im bauernwald. Land, Wald u. Garten 3: 58. Mar. 1948. 18 L22

18365 LAMBERS, D. H. R. Some difficulties with windbreaks. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 536-538. Nov. 1948. 12 N383M

As hosts of insects and plant diseases.

18366 LAMMERT, A. Wie sich "windschatten" auswirken. Land, Wald u. Garten 2: 367-368. Dec. 1947. 18 L22

18367 LINDE, R. J. VAN DER. Woodlots and soil blowing. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 530-536. Nov. 1948. 12 N383M

18368 MERRILL, P. H. Farm forestry—a state forester's viewpoint. J. Forestry 46: 880-881. Dec. 1948. 99.8 F768



18369 PASCHEN, K. Der neue bauernwald, seine begründung, pflege und nutzung. Zella/Rhön, 1947. 28 p. 99.55 P26

18370 SYDOW, E. Bauer und baum. Land, Wald u. Garten 3: 114-115, 138-139. (Cont.) May-June 1948. 18 L22

Tree planting by farmers.

18371 U. S. FOREST SERV. Norris-Doxey farm woodland management project. Washington, 1948. 1 p. 1.962 C5N79

18372 VIRGINIA UNIVERSITY. EXTENSION DIVISION. Plantation—plus; farmers find trees a renewable crop for cash and for use. Va. Univ. Ext. Div. P. New Dominion Ser. 101, 8 p. Nov. 1948. 280.19 V814

18373 WALKER, J. Shelterbelts are not complete without evergreens. Farm & Ranch Rev. 44(12): 10. Dec. 1948. 7 F223

18374 ZIRNITZER, H. Holzsparen für den bauern. Salzburg. Bauer 3(49): 4. Dec. 2, 1948. 19 Sa3

#### Mensuration

18375 BARSAN, A. La madera como materia prima. Campo [La Paz] 2(15): 55-57. July 1948. 9.1 C15

Mensuration.

18376 BEDELL, G. H. D. Form-class of white pine and jack pine as affected by diameter, height and age. Canada. Forest Serv. Silv. Res. Note 89, 8 p. 1948. 99.9 C16Re

18377 BICKERSTAFF, A. Increment hammer. Canada. Forest Serv. Silv. Leaflet 26, 2 p. July 1948. 99.9 C16S

18378 BICKERSTAFF, A. Requirements for permanent line-plot surveys. Canada. Forest Serv. Silv. Leaflet 25, 2 p. May 1948. 99.9 C16S

18379 GAIDULA, P. JR. A standard form class volume table for white pine in central Pennsylvania. J. Forestry 46: 907. (Abs.) Dec. 22, 1948. 99.8 F768

Thesis, Pennsylvania State College.

18380 KELLOGG, L. F. A volume table for black walnut trees in natural stands in Iowa. U. S. Forest Serv. Central States Forest Expt. Sta. Note 42, 1 p. Mar. 1948. 1.9 F76252S

18381 LINDNER. Einfache methoden zur massenschätzung. Land, Wald u. Garten 3: 140. June 1948. 18 L22

18382 LIU, Y. C. The application of the correlation regression and curve fitting to the studies on increment of forest trees. (In Chinese.) Taiwan. Forest Res. Inst. B. 3, 25 p. Ref. May 1947. 99.9 F7652

English summary.

18383 LOTTI, T., and CHAIKEN, L. E. Tree grades for loblolly and shortleaf pine. South. Lumberman 177 (2225): 107-109. Jan. 3, 1949. 99.81 So82

18384 SCHMITZ-LENDERS, B. Massentafel für gut aufgestete, schmalkronige pappeln. Pappeljahrb. 1947: 70-71. 99.8 P19

18385 SHAI, H. K., WHANG, T. N., and CHANG, P. C. A preliminary study on the survey of standing crops. (In Chinese.) Taiwan. Forest Res. Inst. B. 16, 24 p. Dec. 1947. 99.9 F7652

English summary.

18386 SIDERIDES, D. The applications of photogrammetry in forestry. (In Greek.) Dasos 1(4): 24-29. 1947. 99.8 D262

18387 SIRAKOV, G. Tables de cylindricité des troncs âgés du sapin. (In Bulgarian.) Gorsko Stopanstvo 4: 269-273. Oct. 1948. 99.8 G682

French summary.

18388 SOKOS, A. The photogrammetry as a forest mapping means. (In Greek.) Dasos 1(2/3): 13-17. 1947. 99.8 D262

18389 STOVER, W. S., and BURKLE, J. L. Million-acre cruising. South. Lumberman 177(2225): 147-149. Jan. 3, 1949. 99.81 So82

18390 WAGNER, J. B. Saw log measurement. Barrel & Box & Packages 53(12): 6-7, 12. Dec. 1948. 99.82 B27

#### FOREST PROTECTION AND DAMAGE

References on forest insects are classified with Entomology; references on diseases of trees with Plant Pathology.

18391 BAVENDAMM, W., and SCHMIDT, H. Die holzbohrrmuscheln oder terediniden. Reichsinst. f. Forst- u. Holzwirtschaft. Merkbl. 3, 20 p. Mar. 1948. 99.9 R273M

English, French, and Spanish summaries.

18392 CASTILLO G., N. La salvaguardia del tesoro forestal si exige el control de la crianza de los chivos. Agro 3(1/2): 11-15. Jan./Apr. 1948. 9.95 Ag83

18393 GÄBLER, H. Forstschädlingaufreten im mitteldeutschen fichtengebiet als folge der kriegseinwirkungen und des erhöhten holzeinschlages. Forstw., Holzw. 1: 243-245. Nov. 15, 1947. 99.8 F7793

18394 HOFFSTEDT, W. Schützt den deutschen wald. Land, Wald u. Garten 3: 13. Jan. 1948. 18 L22

18395 JIMENEZ, J. Defensa de montes contra el pastoreo. Campo [La Paz] 2(18): 73-76. Oct. 1948. 9.1 C15

18396 KANGAS, E. Über die vertrocknung der fichtenbestände als waldkrankheits- und waldbaufrage. (In Finnish.) Acta Forest. Fenn. 52(5): 1-192. Ref. 1947. 99.9 F492

German summary.

18397 KÖNIG, E. Harzgallen, harzbeulen, harzrisse. Holz-Zentbl. 73: 241. July 24, 1947. 99.81 H742

18398 KÖNIG, E. Die mistel—ein holzschädling. Holz-Zentbl. 73: 223, 225, 231, 233. July 10-17, 1947. 99.81 H742

18399 LITTLEFIELD, E. W. A plea for more pathentomologists (i. e., Ento-Pathologists). J. Forestry 46: 935. Dec. 22, 1948. 99.8 F768

18400 SCHEFFER, T. C., and CHIDESTER, M. S. Survival of decay and blue-stain fungi in air-dry wood. South. Lumberman 177(2225): 110-112. Ref. Jan. 3, 1949. 99.81 So82

18401 THEDEN, G. Die eindringvorgänge bei den holzschutzverfahren. Forstw., Holzw. 2: 185-188, 204-207. Ref. June 1/15-July 1, 1948. 99.8 F7793

18402 VAUGHAN, C. L. What's under bark breaks? South. Lumberman 177(2225): 161-162. Jan. 3, 1949. 99.81 So82

#### Fire

18403 ACHESON, K. Forest fire suppression. Sylva 4(5): 3-13. 1948. 99.8 Sy5

18404 BEZOS, E. The propaganda for the forest fire prevention in the other countries. (In Greek.) Dasos 1(1): 100-101. 1947. 99.8 D262

Titles in English and French.

18405 BUCHEOLZ, H. Rückblick auf die waldbrände im jahre 1947. Forstw., Holzw. 2: 54-55. Feb. 15, 1948. 99.8 F7793

18406 CAMPBELL, K. The lowbush tower girl. Sylva 4(5): 31. 1948. 99.8 Sy5

18407 GRUNOW, W. W. Erkenntnisse aus gross-waldbränden des frühjahrs 1946. Forstw., Holzw. 1: 229-230. Nov. 1, 1947. 99.8 F7793

18408 HESS, Q. F. Fire control planning and organization. Forestry Chron. 24: 257-259. Dec. 1948. 99.8 F7623

18409 NEUE unterlagen für eine waldbrandbekämpfung. I-II. Reichsinst. f. Forst- u. Holzwirtschaft. Mitt. 1, 20 p.; 5, 11 p. Ref. Nov. 1947, May 1948. 99.9 R273

I, by Weck; II, by R. Geiger.

18410 OVERHOLT, G. H. Land owners join in forest fire control program. W. Va. Conserv. 12(9): 13-14. Dec. 1948. 279.8 W524

18411 TERWAGNE, C. Le grand incendie de Hattlich Eupen, Septembre 1947. Soc. Cent. Forest. de Belg. B. 55: 369-386. Oct. 1948. 99.9 B83

18412 WATTS, L. F. Forest fires can be prevented. Pa. Game News 19(5): 7, 32. Aug. 1948. 412.9 P38Pe

Also in Wildlife N. C. 13: 8-10. Jan. 1949. 279.8 N812

#### Meteorological Injuries

18413 POMERLEAU, R. Effets du froid dans une plantation à Valcartier, Qué. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 86. 1948. 517 M76

Pine.



## SILVICULTURE

- 18414 ALBERT, F. A. Timber production and our water resources. *South. Lumberman* 177(2225): 233-235. Jan. 3, 1949. 99.81 So82
- 18415 AMELINCKX, F. What is done for the reforestation of our Kempen? (In Flemish.) *Cult. en Handel* 14: 787. Dec. 1948. 80 C892
- 18416 BANG, S. Thinning of willows. (In Danish.) *Dansk Skovfor. Tidsskr.* 33: 467-470. Oct. 1948. 99.8 D23
- 18417 BEER. Soll man protzen entfernen? *Forstw., Holz.* 2: 25. Jan. 15, 1948. 99.8 F7793  
Silviculture.
- 18418 BEER. Zur ausformung von buchenstammholz. *Forstw., Holz.* 2: 28-29. Jan. 15, 1948. 99.8 F7793
- 18419 BERGER-LANDEFELDT, U. Zur kenntnis des wasserverbrauchs des waldes. *Forstw., Holz.* 2: 75-78. Ref. Mar. 1/15, 1948. 99.8 F7793
- 18420 BICKFORD, C. A., and BRUCE, D. Fire and longleaf pine reproduction. *South. Lumberman* 177(2225): 133-135. Jan. 3, 1949. 99.81 So82
- 18421 BISTRUP, C. Silvicultural costs. (In Danish.) *Dansk Skovfor. Tidsskr.* 33: 421-427. Sept. 1948. 99.8 D23
- 18422 BORNEBUSCH, C. H. Places d'essai de chêne au nord-est de Seeland. (In Danish.) *Denmark. Forstl. Forsøgskomm. Forstl. Forsøgsv. i Danmark* 19: 205-252. 1948. 99.9 D41  
French summary.
- 18423 BÖSER, E. Zur frage der dürrewirkungen. *Allg. Forstz.* 3: 176. Sept. 1, 1948. 99.8 AL52
- 18424 CASSADY, J. T., and PEEVY, F. A. From scrubby hardwoods to merchantable pines: timber owners kill defective hardwoods with chemicals. *South. Lumberman* 177(2225): 115-119. Jan. 3, 1949. 99.81 So82
- 18425 CASTANEDA S., G. A. Reforestación; urgente necesidad de crear parques nacionales en el país. *Honduras Agr.* 4(40/46): 27. Mar./Sept. 1948. 6 H753
- 18426 CLASON, M. S. Culture or natural rejuvenation of our spruce forests. (In Norwegian.) *Skogbruken* 23: 225-227. Oct. 15, 1948. 99.8 Sk54
- 18427 COOPER, J. O. Trees and drought. (In Afrikaans.) *Landbouweekblad* 30(1530): 36-38, 43. Nov. 10, 1948. 24 L232
- 18428 CUMMING, W. C., and RIGHTER, F. I. Methods used to control pollination of pines in the Sierra Nevada of California. *U. S. D. A. C.* 792, 18 p. Ref. Sept. 1948. 1 Ag84C
- 18429 DELEVOY, G. Essais sur des modes de boisement en essences feuillues aux champs d'expérience de Belle Étoile (Forêt de Soignes). *Soc. Cent. Forest. de Belg.* B. 55: 387-408. Oct. 1948. 99.9 B83
- 18430 DENT, T. V. Seed storage with particular reference to the storage of seed of Indian forest plants. *Indian Forest Rec. New Ser., Silv.* 7(1), 134 p. July 1948. 99.8 In225
- 18431 EGYPT. MINISTRY OF AGRICULTURE. Raising forests and timber-trees in Egypt. *Cairo, Govt. Press*, 1948. 8 p. 99.68 Eg9
- 18432 EHWALD, E., and ERDMANN, G. Die standortverhältnisse der besichtigten kahlflächen und bestände im Forstamt Tornau. *Forstw., Holz.* 2: 107-111. Apr. 1, 1948. 99.8 F7793
- 18433 EHWALD, E. Waldbauliche gegenwartsfragen zum Douglasienanbau. *Forstw., Holz.* 2: 157-159. May 15, 1948. 99.8 F7793
- 18434 ENGLÉ, L. G. Girdling northern hardwood wolf trees. *J. Forestry* 46: 925-926. Dec. 1948. 99.8 F768
- 18435 FORSTLICHE VERSUCHSANSTALT EBERSWALDE. Bisherige ergebnisse eines Douglasprovenienzversuches im forstamt freienwalde. *Forstw., Holz.* 2: 135-138. May 1, 1948. 99.8 F7793
- 18436 FOWELLS, H. A. The temperature profile in a forest. *J. Forestry* 46: 897-899. Dec. 1948. 99.8 F768
- 18437 GAULT, A. Sélection des arbres; production des semences & plants pour le reboisement. *Agriculture [Paris]* 12: 361-362. Nov. 1948. 14 Ag823
- 18438 GAZTAMBI, J. B. Semilleros de arboles forestales. *Puerto Rico. Agr. Col. Ext. C. Inform.* 51, rev., 3 p. July 1948. 275.29 P96C
- 18439 GERNLEIN. Zum lärchenanbau in Nordwestdeutschland. *Forst u. Holz* 3: 193-195. Oct. 15, 1948. 99.8 F7724
- 18440 GEORGOPOULOS, A. The transformation of coppice forests in seed forests. (In Greek.) *Dasos* 1(1): 61-73. 1947. 99.8 D262  
Titles in English and French.
- 18441 GRÖN, A. H. Efficient culture economy. (In Danish.) *Dansk Skovfor. Tidsskr.* 33: 484-494. Nov. 1948. 99.8 D23  
Beech.
- 18442 GRUNOW, W. W. Die erhöhte bedeutung der herbstpflanzung für die kommenden grossaufforstungen. *Forstw., Holz.* 2: 140-141. May 1, 1948. 99.8 F7793
- 18443 HANSEN, H. R. Willow culture. (In Danish.) *Dansk Skovfor. Tidsskr.* 33: 475-480. Oct. 1948. 99.8 D23
- 18444 HOFFMEISTER, J. Frostschaadenverhütung. *Forstw., Holz.* 2: 115-118. Apr. 15, 1948. 99.8 F7793
- 18445 HOLSOE, T. Crown development and basal area growth of red oak and white ash. *Harvard Forest Papers* 1(3): 28-33. 1948. 99.9 H265
- 18446 HORNSTEIN, F. Zur entwicklungsgeschichte der fichtenreviere und des waldfeldbaues in Oberschwaben. *Forstwiss. Centbl.* 67: 65-79. Ref. Nov. 1948. 99.8 F775
- 18447 HOUTZAGERS, G. Die pappelkultur in Holland. *Pappeljahrb.* 1947: 49-55. 99.8 P19
- 18448 HWANG, C. W. Studies by statistics on the seeding forest composition during the thinning of standing crops of Taiwan Acacia (*Acacia Richii* A. Gray). (In Chinese.) *Taiwan. Forest Res. Inst. B.* 14, 23 p. Oct. 1947. 99.9 F7652  
English summary.
- 18449 IHLENFELD. Aufforstungsfragen. *Forstw., Holz.* 2: 58-61. Feb. 15, 1948. 99.8 F7793
- 18450 KELTIKANGAS, V. The fertility of drained bogs as shown by their tree producing capacity, considered in relation to the theory of forest types. (In Finnish.) *Acta Forest. Fenn.* 53(1): 1-237. 1947. 99.9 F492  
English summary.
- 18451 KRAMER, P. J. Plant physiology in forest research. *J. Forestry* 46: 918-921. Dec. 1948. 99.8 F768
- 18452 LARSEN, C. M. Breeding of willows. (In Danish.) *Dansk Skovfor. Tidsskr.* 33: 470-474. Oct. 1948. 99.8 D23
- 18453 LASSEN, J. N. Sensible silviculture. (In Danish.) *Dansk Skovfor. Tidsskr.* 33: 428-431. Sept. 1948. 99.8 D23  
Chiefly on cost.
- 18454 LEBARRON, R. K. Silvicultural management of black spruce in Minnesota. *U. S. D. A. C.* 791, 60 p. Ref. Oct. 1948. 1 Ag84C
- 18455 LIESE, J. Beschleunigung der fruchtbarkeit der waldbäume durch ringelung. *Forstw., Holz.* 2: 146-147. May 15, 1948. 99.8 F7793
- 18456 LIN, W. F., and LIU, Y. C. Experiment on transplantation of Fukien cypress with relation of growth of seedlings to the distance, fertilizers, method of shading and age of seedlings (*Fokienia hodginsii* Henry & Thomas). (In Chinese.) *Taiwan. Forest Res. Inst. B.* 15, 23 p. Oct. 1947. 99.9 F7652  
English summary.
- 18457 LIN, W. F., and LIU, Y. C. Experiments on the relation of the kind of covering soils and depth of planting to the germination of seeds of Chinese pine and Fukien cypress (*Pinus massoniana* Lamb. and *Fokienia hodginsii* Henry & Thomas). (In Chinese.) *Taiwan. Forest Res. Inst. B.* 12, 15 p. Sept. 1947. 99.9 F7652  
English summary.
- 18458 LIN, W. F., and LIU, Y. C. Experiments on requirements of light intensities to the coniferous seedlings. (In Chinese.) *Taiwan. Forest Res. Inst. B.* 5, 67 p. June 1947. 99.9 F7652  
English summary.
- 18459 LIU, Y. C. A study on the propagation of Fortune Paulownia by cutting roots. (*Paulownia Fortunei* Hemsley). (In Chinese.) *Taiwan. Forest Res. Inst. B.* 13, 18 p. Sept. 1947. 99.9 F7652  
English summary.
- 18460 MINCKLER, L. S. Planted black locust on claypan soils of southern Illinois. *U. S. Forest Serv. Central States Forest Expt. Sta. Note* 46, 2 p. June 1948. 1.9 F76252S



- 18461 MINCKLER, L. S. Planted pines on claypan soils of southern Illinois. U. S. Forest Serv. Central States Forest Expt. Sta. Note 44, 2 p. June 9, 1948. 1.9 F76252S
- 18462 MORRIS, H. A. Hybridizing forest trees to order. South. Lumberman 177(2225): 240-242. Jan. 3, 1949. 99.81 So82
- 18463 MUNTZ, H. H. Profit from thinning variously spaced loblolly pine plantations. South. Lumberman 177(2225): 125-128. Jan. 3, 1949. 99.81 So82
- 18464 NORDSTRÖM, L. Aid in lighting fire during burning of a clear cut area. (In Swedish.) Skogen 35: 275-276. Dec. 1, 1948. 99.8 Sk51
- 18465 O'HANLON, M. E. Tree seedlings. Turtox News 26: 204-210. Aug. 1948. 442.8 T86
- 18466 OLBERG, A. Kiefernfaat und bodenlockerung. Forst u. Holz 3: 198-199. Oct. 15, 1948. 99.8 F7724
- 18467 PHELPS, V. E. Silviculture and cutting practices in the prairies. Forestry Chron. 24: 252-256. Dec. 1948. 99.8 F7623
- 18468 PHELPS, V. H. White spruce reproduction in Manitoba and Saskatchewan. Canada. Forest Serv. Silv. Res. Note 86, 32 p. Ottawa, 1948. 99.9 C16Re
- 18469 POMEROY, K. B., and TROUSDELL, K. B. The importance of seed-bed preparation in loblolly pine management. South. Lumberman 177(2225): 143-144. Jan. 3, 1949. 99.81 So82
- 18470 POWLES, R. Notes on tree planting on farms. N. S. Wales Soil Conserv. Serv. J. 4: 157-159. Oct. 1948. 56.9 N472
- 18471 PREISSLER, L. Pflanzenerziehung ohne kamp. Forstw., Holz 2: 207. July 1, 1948. 99.8 F7793
- 18472 PREISSLER, L. Planung und praxis. Forstw., Holz 2: 17-19. Jan. 15, 1948. 99.8 F7793
- 18473 PREISSLER, L. Ein waldbaulicher fehler. Forstw., Holz 2: 203-204. July 1, 1948. 99.8 F7793
- 18474 QUAIN, J. Les plantations forestières sur pentes, collines et montagnes. J. de la France Agr. 4: 985. Nov. 26/Dec. 2, 1948. 14 J829
- 18475 ROE, A. L. A preliminary classification of tree vigor for western larch and Douglas-fir trees in western Montana. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 66, 6 p. Nov. 1948. 1.9622 N3R31
- 18476 ROE, E. I. Viability of white pine seed after 10 years of storage. J. Forestry 46: 900-902. Dec. 1948. 99.8 F768
- 18477 ROHMEDER, E. Kahlflächen - aufforstung. München, Bayerischer Landwirtschaftsverlag, 1948. 127 p. (Forstwirtschaftliche Praxis. 1) 99.47 R63
- 18478 ROQUE, T. N. The planting and caring of trees. Philippine Isl. U. Forestry Leaves 2(1): 2-4. Oct. 1947. 99.8 P532
- 18479 ROWLAND, C. A. JR. Bud-pruning for better logs. South. Lumberman 177(2225): 142-143. Jan. 3, 1949. 99.81 So82
- 18480 ST. QUENTIN, M. Plantez des peupliers. Paris, Montsouris, 1947. 68 p. (Collection Rustica) 99.35 Sa22
- 18481 SCHMIDT, W. Richtige Überwinterung der saathucheln. Forst u. Holz 3: 238. Dec. 1, 1948. 99.8 F7724
- 18482 SCHÖNBACH, H. Möglichkeiten und aufgaben der forstpflanzenzüchtung. Forstw., Holz 2: 19-24. Jan. 15, 1948. 99.8 F7793
- 18483 SIEBER, G. Waldarbeiterschaft hilft bei der erhaltung des waldes. Forstw., Holz 2: 159. May 15, 1948. 99.8 F7793
- 18484 SKVORTSOV, A. K. Vegetative propagation of fir trees. (In Russian.) Priroda 37(10): 73-74. Ref. Oct. 1948. 410 P933
- 18485 SMITH, J. E. JR. On dewinging tree seed by hammermill. J. Forestry 46: 926-928. Dec. 1948. 99.8 F768
- 18486 SPECHT, Pflanzenerziehung ohne kamp. Forstw., Holz 2: 123-128. Apr. 15, 1948. 99.8 F7793
- 18487 STOCKWELL, P. Pine breeding today. South. Lumberman 177(2225): 279-281. Jan. 3, 1949. 99.81 So82
- 18488 SWITZER, H. D. The management of cottonwood in the bottomlands of southern Illinois. South. Lumberman 177(2225): 153-157. Jan. 3, 1949. 99.81 So82
- 18489 THIELECKE, J. Die verjüngung der eiche. Forstw., Holz 1: 180-183. Sept. 15, 1947. 99.8 F7793

- 18490 VEEN, B. Forstwirtschaft und jarovisation. Forstw., Holz 2: 113-115. Apr. 15, 1948. 99.8 F7793
- 18491 VOSS, J. Abschliessende ergebnisse eines versuchs, der wasserreiserbildung an eichen vorzubeugen. Holz-Zentbl. 73: 82. Mar. 13, 1947. 99.81 H742
- 18492 WECK, Untersuchungen zur korrelation zwischen niederschlagsverhältnissen und baumzuwachs. Z. f. Weltforstw. 12: 121-128. Oct. 1948. 99.8 L35  
English and French summaries.
- 18493 WETTSTEIN, W. VON. Die "faserholzpappel," ihre kulture und züchtung. Pappeljahr. 1947: 33-47. 99.8 P19
- 18494 WOBST, W. Waldbau—ein geistloses handwerk? Allg. Forstz. 3: 172-174. Sept. 1, 1948. 99.8 AL52
- 18495 ZIEBARTH. Zur wiederaufforstung der kahlflächen. Land, Wald u. Garten 3: 12-13. (Cont.) Jan. 1948. 18 L22
- 18496 ZIEGER. Probleme der wiederaufforstung. Forstw., Holz 2: 56-58. Feb. 15, 1948. 99.8 F7793

## LUMBERING

- 18497 MILLER, C. E. The importance of safety. South. Lumberman 177(2225): 131-132. Jan. 3, 1949. 99.81 So82

## Equipment

- 18498 DIEGMANN, H. Wertvolle winke für sägeschärfen und messerschleifen. Forstw., Holz 2: 61-62. Feb. 15, 1948. 99.8 F7793
- 18499 EMMERICH, H. Die parallelbesäumkreissäge. Forstw., Holz 1: 199-202. Oct. 1, 1947. 99.8 F7793
- 18500 FRANZ, R. Neue holzbearbeitungsmaschinen ohne unfallschutz. Holz-Zentbl. 73: 101. Mar. 27, 1947. 99.81 H742
- 18501 GUTHKNECHT, K. Späneabsaugungsanlagen. Forstw., Holz 1: 250-253. Nov. 15, 1947. 99.8 F7793
- 18502 KREPS, E. H. The axe—how to use it. Fur Trade J. Canada 26(3): 77-80. Nov. 1948. 410 F965
- 18503 LEAF, C. S. Small hydraulic log barker. Forest Prod. Res. Soc. Proc. 2: 114-117. 1948. 99.9 F7662P  
Discussion, p. 117-118.
- 18504 MEIER, W. Sicheres entladen von langholz-wagen. Forstw., Holz 1: 259-260. Dec. 1/15, 1947. 99.8 F7793
- 18505 SANDERS, H. The tenoning machine. Timber News 56: 398-399. Oct. 1948. 99.81 T482
- 18506 SLAVOV, S. Cables transportables pour le transport des bois. (In Bulgarian.) Gorsko Stopanstvo 4: 262-269. Oct. 1948. 99.8 G682  
French summary.
- 18507 SMITH, I. W. Mechanical methods of bark removal. Forest Prod. Res. Soc. Proc. 2: 119-128. Ref. 1948. 99.9 F7662P  
Discussion, p. 128-129.
- 18508 THEBIS, R. Schlepper in der forstwirtschaft. Land, Wald u. Garten 3: 11-12. Jan. 1948. 18 L22
- 18509 THEBIS, R. Werkzeuge und geräte für waldarbeiten. Land, Wald u. Garten 2: 362-363. Dec. 1947. 18 L22

## Logging

- 18510 FRITZ, E. An analysis of wood losses in redwood logging. Forest Prod. Res. Soc. Proc. 2: 24-29. 1948. 99.9 F662P  
Discussion, p. 29-30.
- 18511 SIMMONS, F. C. Choosing methods and equipment for logging. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 18, 19 p. Aug. 1948. 1.9622 NZSt22

## Lumber Industry

- 18512 BARTH, J. Situation du marché du noyer dans le Sud-Ouest. Bois et Scieries 54: 836. Nov. 4, 1948. 99.81 B632
- 18513 BOYD, J. Lumber—world's first industry. South. Lumberman 177(2225): 256, 258, 260-262, 264-266. Jan. 3, 1949. 99.81 So82
- 18514 COLGAN, R. A. JR. Let's talk markets. South. Lumberman 177(2225): 106-107. Jan. 3, 1949. 99.81 So82
- 18515 COOK, D. Marketing timber. N. Y. State Conserv. 3(3): 6-7. Dec. 1948/Jan. 1949. 279.8 N48



18516 DARRAH, R. F. The wholesalers' outlook. South. Lumberman 177(2225): 231-232. Jan. 3, 1949. 99.81 So82

18517 DESCH, H. E. Malaya re-visited. Austral. Timber J. 14: 394-395, 407, 409. July 1948. 99.81 Au7 Includes reports in lumber trade.

18518 DOSKER, C. D. Utilization of low-grade hardwood lumber. Forest Prod. Res. Soc. Proc. 2: 39-44. 1948. 99.9 F7662P Discussion, p. 44-45.

18519 FRIES, R. F. The Mississippi River Logging Company and the struggle for the free navigation of logs, 1865-1900. Miss. Val. Hist. Rev. 35: 429-448. Dec. 1948. 134.8 M69

18520 HANRAHAN, F. J. Lumber for engineered construction. South. Lumberman 177(2225): 366. Jan. 3, 1949. 99.81 So82

18521 HARTMAN, G. B., and KELLOGG, L. F. Preliminary report of yields of lumber by grades from Iowa timber. U. S. Forest Serv. Central States Forest Expt. Sta. Note 43, 2 p. May 1948. 1.9 F76252S

18522 KANSAS. UNIVERSITY. SCHOOL OF BUSINESS. BUR. OF BUSINESS RESEARCH. Cost of doing business. Operating results in 1947 of retail lumber yards in Kansas, Missouri, Oklahoma, and Arkansas. n. p., 1948. 28 p. 99.76 K13

18523 KOCH, P. Plane talk for better lumber. Wood [Chicago] 3(11): 34, 36, 38, 53. Nov. 1948. 99.82 W859

18524 MCCLURE, J. W. Patch the roof while the weather is fair. South. Lumberman 177(2225): 181-182. Jan. 3, 1949. 99.81 So82 Lumber industry.

18525 MEENTS, M. Vorschläge zur vereinfachung der schnittholzsortierung. VIII. Holz-Zentbl. 73: 97-98. Mar. 27, 1947. 99.81 H742

18526 MOORE, A. G. T. Traffic and transportation in lumber merchandising. South. Lumberman 177(2225): 187-190. Jan. 3, 1949. 99.81 So82

18527 NICKEY, S. M. JR. Will the railroads price themselves out of the market for hardwoods? South. Lumberman 177(2225): 129-130. Jan. 3, 1949. 99.81 So82

18528 RAZOUS, P. Le commerce des bois en France et dans les pays de l'Union Française: Afrique Occidentale et Equatoriale Française. Bois et Scieries 54: 785-787, 810-812, 836-839. Oct. 21-Nov. 4, 1948. 99.81 B632

18529 RISHELL, C. "Milpak" lumber to increase market for low-grade hardwoods. South. Lumberman 177(2225): 167-171. Jan. 3, 1949. 99.81 So82

18530 SAMUELSSON, E. On the grading of construction lumber. (In Swedish.) Skogen 35: 271-272. Dec. 1, 1948. 99.8 Sk51

18531 SANDS, W. M. Don't hog your profits. Wood [Chicago] 3(12): 26-27, 56. Dec. 1948. 99.82 W859

18532 SCHINDLER, E. R. Let's be prepared. South. Lumberman 177(2225): 141. Jan. 3, 1949. 99.81 So82 Lumber industry.

18533 SCHRÖTTER, V. Stockholzpries und schwund-verlust. Forst u. Holz 3: 239-240. Dec. 1, 1948. 99.8 F7724

18534 SIMPSON, H. V. Utilization of low-grade softwood lumber. Forest Prod. Res. Soc. Proc. 2: 46-48. 1948. 99.9 F7662P

18535 SOUTHWEST LUMBER MILLS, INC. Arizona ponderosa pine lumber. Flagstaff, 1948. 22 p. 99.76 So89

18536 THOMPSON, J. What about exports? South. Lumberman 177(2225): 253-254. Jan. 3, 1949. 99.81 So82

18537 WANGAARD, F. F. Stock preparation. Furniture 63(12): 49, 54. Dec. 1948. 300.8 F982

18538 WEST COAST LUMBERMEN'S ASSOCIATION. Where to buy Douglas fir, west coast hemlock, Sitka spruce [and] western red cedar, July 1, 1948. Portland, Oreg., 1948. 15 p. 225 W525

18539 WEST COAST LUMBERMEN'S ASSOCIATION. BUR. OF LUMBER GRADES AND INSPECTION. The fundamentals of good lumber manufacturing and grading practice. Portland, Oreg., 1947. 86 p. 99.76 W522F

18540 WIĘCKO, E. Gdańsk as a centre of the overseas timber trade. (In Polish.) Inst. Badawczy Leśn. Ser. A. Rozprawy i Sprawozdania 48, 106 p. 1948. 99.9 W26

English summary.

18541 WILLARD, R. Economics of planning floor space for woodworking equipment. Forest Prod. Res. Soc. Proc. 2: 193-199. 1948. 99.9 F7662P Discussion, p. 199-200.

18542 YOUNG, V. Problems and opportunities common to the lumber and pulp industries. Unit 1948: 11-16. Aug. 1948. 99.9 Un34

18543 ZASADA, Z. A. Aspen lumber grades and characteristics. Lake States Timber Digest 3(3): 5-6. Nov. 18, 1948. 99.81 L14

#### Sawmills

18544 BROOKS, R. D. Circular saws. Wood [Chicago] 3(12): 20-21, 57. (To be cont.) Dec. 1948. 99.82 W859

18545 CREIGHTON, J. W. Savings for small sawmills by use of air dogs. Lake States Timber Digest 3(3): 3-4, 10. Nov. 18, 1948. 99.81 L14

18546 HEWLETT, W. D. The small log gang sawmill as a factor in our present-day utilization problem. Forest Prod. Res. Soc. Proc. 2: 31-37. 1948. 99.9 F7662P

Discussion, p. 37-38.

18547 HUNDAHL, R. Power consumption in machine sawing. (In Danish.) Dansk Skovfor. Tidsskr. 33: 397-420. Sept. 1948. 99.8 D23

18548 LEPUIS, J. Force motrice dans les scieries. Bois et Scieries 54: 859-860. Nov. 11, 1948. 99.81 B632

#### WOOD TECHNOLOGY

18549 BARSAN, A. Materia leñosa, su aspecto químico tecnológico. Campo [La Paz] 2(18): 25-28. Oct. 1948. 9.1 C15

18550 CHOWDHURY, K. A., and GHOSH, S. S. Some more commercial timbers of India. Indian Forest Rec. New Ser., Util. 4(3), 25 p. Delhi, 1947. 99.8 In22U

18551 CLARK, I. T., HICKS, J. R., and HARRIS, E. E. Constituents of extractive from Douglas-Fir lignin residue. Amer. Chem. Soc. J. 70: 3729-3731. Nov. 1948. 381 Am33J

18552 CODONI, J. C. Contribución al estudio químico y aplicación de nuestros árboles: el Guayaibí (Patagonula Americana). Argentina. U. Nac. del Litoral. Facul. de Quím. Indus. y Agr. Rev. 16/17: 120-126. 1946/47. 383 Sa5

18553 COLLIE, G. A., ELLISON, J. G., and WILSON, R. F. The German manufacture of wood-waste board. U. S. Off. Tech. Serv. PB Rpt. 87927, 28 p. 1947. 157.8 R29

British Intelligence Objectives Sub-Committee Final Report 1526.

18554 GOLDSCHMID, O., and BALKEMA, D. W. Ultraviolet absorption spectra of sulphuric acid solutions of wood cellulose. Paper Indus. & Paper World 30(9): 1399. (Abs.) Dec. 1948. 302.8 P1923

18555 HAUMANN, Gewebtes holz, ein zweig der deutschen holzindustrie. Forstw., Holzw. 1: 238-239. Nov. 1, 1947. 99.8 F7793

18556 KEYLWERTH, R. Neue amerikanische holzveredelungsverfahren sammelreferat über arbeiten des Forest Products Laboratory, Madison (USA.). Holz-Zentbl. 74: 478-479, 497-498. (To be cont.) Oct. 29-Nov. 5, 1948. 99.81 H742

18557 NICHOLS, W. The transformation of wood. 1-4. Timber & Plywood 95: 707-708, 747-748, 791-792, 833-834, 838. Oct. 28-Nov. 18, 1948. 99.81 T489

18558 SPROULL, R. C. Wood science, a report of southern research. South. Lumber J. 52(12): 18, 92-93. Dec. 10, 1948. 99.81 So8

18559 TUTENBERG, F. Der wald und die holzveredelungsindustrie in Finnland. Holz-Zentbl. 74: 483. Oct. 29-Nov. 5, 1948. 99.81 H742

#### Preservative Treatment

18560 BLEW, J. O., JR. Service tests on posts as a means of evaluating wood preservatives and methods of treatment. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1726, 10 p. Oct. 1948. 1.9 F761R

18561 BOND, W. R. 3-mile creosoted timber flume replaces untreated structure. Wood Preserv. News 26: 136-140, 148. Dec. 1948. 300.8 W853



18562 KOKKINS, J. The impregnation of plant of S. E. K. in Katerini. (In Greek.) *Dasos* 1(4): 43-50. 1947. 99.8 D262

Railway ties.

18563 LEHRBAS, M. M. The South's wood-preservation testing ground. *South. Lumberman* 177(2225): 163-166. Jan. 3, 1949. 99.81 So82

18564 MANN, R. H. Fireproofed wood door with-stands ASTM fire test for 90 minutes. *Wood Preserv. News* 26: 124-126, 132-133. Nov. 1948. 300.8 W853

18565 MARSHALL, E. D. Research seeks longer life for softwood posts. *Tex. Chemurgic News* 4(5): 2. Nov. 1, 1948. 381 T29

18566 RISI, J. La préservation du bois. *Forêt Québécoise* 13: 774-775. (Concl.) Dec. 1948. 99.8 F79

18567 SCHOFIELD, M. Wood in the chemist's hands. *Discovery* 9: 299-303. Oct. 1948. 472 D63

Preservative treatment.

18568 SHAW, C. S. A preliminary study on the effect of different pressures & pressure-periods on the rate of absorption & penetration of creosote to some Taiwan timbers of broad-leaved trees. (I). (*Castanopsis kawakamii*, Hayata. *Beilschmiedia erythrophloia*, Hayata. *Machilus zuihoensis*, Hayata.). *Taiwan. Forest Res. Inst. B.* 11, 27 p. June 1947. 99.9 F7652

18569 STACEY, W. A. Radiotelephony; creosoted poles support antennae for mobile radio telephone service. *Wood Preserv. News* 26: 141-142, 147-148. Dec. 1948. 300.8 W853

18570 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on wood preservation. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R704, 29 p. Oct. 1948. 1.9 F761R

#### Properties and Structure

18571 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. A resume of the standard procedure for mechanically testing small clear timber specimens, by N. H. Kloot and J. J. Mack. *South Melbourne*, 1948. 12 p. (Its Subproj. T.M. 22/0. Prog. Rpt. 1.) 99.79 Au7R

18572 BAVENDAMM, W. Die prüfung der natürlichen dauerhaftigkeit des holzes, insbesondere des tropenholzes, gegen pilze, termiten und bohrrmuscheln. *Z. f. Weltforstw.* 12: 137-144. Ref. Oct. 1948. 99.8 L35  
English and French summaries.

18573 BENET, P. J. Análisis capilar de maderas argentinas. *Argentina. U. Nac. del Litoral. Facul. de Quím. Indus. y Agr. Rev.* 16/17: 108-119. 1946/47. 383 Sa5

18574 BROWNE, F. L. Moisture content of wood as related to finishing of furniture. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1722, 7 p. Oct. 1947. 1.9 F761R

18575 DAVIS, E. M. Machining of madrone, California laurel, tanbark oak, and chinquapin. U. S. Forest Serv. Forest Prod. Lab. R1727, 5 p. Dec. 1947. 1.9 F761R

18576 DESCH, H. E. Studying wood anatomy. *Timber News* 56: 373-374. Oct. 1948. 99.81 T482

18577 HRUBESKY, C. E. Comparison of several freeness testers on [insulation] board stock. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1719, 6 p. Feb. 1948. 1.9 F761R

18578 LAMB, G. N. Foreign woods: origin, use, properties and nomenclature. *Wood Prod.* 53(12): 24, 26. Dec. 1948. 99.82 W856

18579 LIEBERMAN, J. A. Fibre stresses for coconut timbers. *Mil. Engin.* 40: 500-501. Nov. 1948. 290.9 Un3

18580 LISKA, J. A. Tests of cargo flooring N and P for aircraft. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1550-D, 6 p. Jan. 1948. 1.9 F761R

18581 LISKA, J. A. Tests of cargo flooring R and S for aircraft. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1550-E, 7 p. June 1948. 1.9 F761R

18582 MA, T. P. Tests on strength of important wood in Taiwan. 1. (In Chinese.) *Taiwan. Forest Res. Inst. B.* 10, 9 p. Dec. 1947. 99.9 F7652

18583 MCKINNEY, R. E. Effect of variable overhang on horizontal shear of a beam. *Wood [Chicago]* 3(11): 18-19, 46. Nov. 1948. 99.82 W859

18584 NARAYANAMURTI, D., and RANGANATHAN, V. Resistance of wood to corrosion by hot chemicals. *Forest Res. Inst. Dehra Dun. Indian Forest Leaflet* 101, 3 p. Dehra Dun, 1947. 99.9 F768

18585 NIKITIN, N. I. New investigations in the chemistry of wood and cellulose. (In Russian.) *Akad. Nauk SSSR. Inst. Lesa. Trud.* 2: 32-42. 1948. 99.9 Ak1

18586 PECK, E. C. The sap or moisture in wood.

U. S. Forest Serv. Forest Prod. Lab. Mimeog. R768, rev., 4 p. July 1948. 1.9 F761R

18587 PEVTSOV, A. KH. Physics of wood, its problems and its place in the system of forestry. (In Russian.) *Akad. Nauk SSSR. Inst. Lesa. Trud.* 2: 24-31. 1948. 99.9 Ak1

18588 POLETIKA, N. V. A new method for studying the elastic behavior of wood. *Forest Prod. Res. Soc. Proc.* 2: 178-191. Ref. 1948. 99.9 F7662P

18589 TIEMANN, H. D. Flexible cypress. *South. Lumberman* 177(2225): 304, 306. Jan. 3, 1949. 99.81 So82

18590 TURNER, H. D., HOHF, J. P., and SCHWARTZ, S. L. Effect of some manufacturing variables on the properties of fiberboard prepared from milled Douglas-fir. *Forest Prod. Res. Soc. Proc.* 2: 100-112. 1948. 99.9 F7662P

18591 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Supplement No. 2 to U. S. Department of Agriculture Miscellaneous Publication 185, "Guide to the Grading of Structural Timbers and the Determination of Working Stresses." Recommendations for basic stresses. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1715, 11 p. June 1948. 1.9 F761R

18592 WARDROP, A. B., and DADSWELL, H. E. The nature of reaction wood. I. The structure and properties of tension wood fibres. *Austral. J. Sci. Res. Ser. B. Biol. Sci.* 1: 3-16. Ref. Feb. 1948. 442.8 Au72

18593 WERREN, F. Fatigue of sandwich constructions for aircraft; cellular-hard-rubber core material with aluminum of fiberglass-laminate facings, tested in shear. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1559-E, 7 p. Oct. 1948. 1.9 F761R

18594 WHITE, D. J. B. Timber and the living tree—2. *Timber News* 56: 383-384. Oct. 1948. 99.81 T482

18595 YOLTON, L. A. Tests of cargo flooring M for aircraft. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1550-B, 7 p. Apr. 1947. 1.9 F761R

18596 YOUNGQUIST, W. G., and MUNTHER, B. P. The effect of a change in testing speed and span on the flexural strength of insulating and structural fiberboards and a proposed new method of test. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1717, 13 p. June 1948. 1.9 F761R

#### Seasoning, Conditioning, and Finishing

18597 ADAMS, W. S. Kiln-drying green hardwoods. *South. Lumberman* 177(2225): 314, 316, 318, 320, 322. Jan. 3, 1949. 99.81 So82

18598 DOWNS, L. E. Bleaching wood. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1705, rev., 8 p. Oct. 1948. 1.9 F761R

18599 HYLER, J. E. Drying green veneer. *Veneers & Plywood* 42(12): 30-32. Dec. 1948. 99.82 V515

18600 JAMIESON, G. Some pertinent facts about wood sealers. *Wood Prod.* 53(12): 33-34, 36. Dec. 1948. 99.82 W856

18601 LETSKY, B. M. Wood finishing by spray gun. *Paint* 18(12): 415-420, 432. Dec. 1948. 306.8 P162

18602 LOUGHBOROUGH, W. K. Chemical seasoning: its effectiveness and present status. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1721, 13 p. Aug. 1948. 1.9 F761R

18603 MANSELL, R. Furniture finishing processes. I. *Furniture* 63(12): 32, 37, 47, 53. Dec. 1948. 300.8 F982

18604 MARTIN, W. E. Finishes resistant to alcohols, acids, and similar deteriorating agents. *Forest Prod. Res. Soc. Proc.* 2: 153-154. 1948. 99.9 F7662P

18605 MILLER, D. G. Application of dielectric heating to the seasoning of wood. *Forest Prod. Res. Soc. Proc.* 2: 235-241. 1948. 99.9 F7662P

Discussion, p. 241-243.

18606 PRINCE, R. E. Historical development of furniture finishes. *Forest Prod. Res. Soc. Proc.* 2: 151-152. 1948. 99.9 F7662P

18607 QUIGLEY, R. I. Some simple testing methods for the user of wood finishing materials. *Forest Prod. Res. Soc. Proc.* 2: 159-164. 1948. 99.9 F7662P

18608 RICHARDS, I. Types of kilns for drying wood. *Furniture* 63(12): 41. Dec. 1948. 300.8 F982



18609 ROBERTSON, W. S. Low-bake synthetic finishes for furniture. *Forest Prod. Res. Soc. Proc.* 2: 155-156. 1948. 99.9 F7662P

18610 THOMAS, F. H. Materials and methods for finishing radio cabinets and similar products. *Forest Prod. Res. Soc. Proc.* 2: 157-158. 1948. 99.9 F7662P

18611 TORGESON, O. W., and SMITH, H. H. Furnace-type lumber dry kiln. *U. S. Forest Serv. Forest Prod. Lab. Mimeog.* D1474, rev., 21 p. Sept. 1948. 1.9 F761R

Also in *South. Lumberman* 177(2225): 292-293, 296, 298, 300, 302. Ref. Jan. 3, 1949. 99.81 So82

18612 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Drying and conditioning glued joints. *U. S. Forest Serv. Forest Prod. Lab. Mimeog.* D475, 4 p. Aug. 1948. 1.9 F761R

18613 VAN ORMER, W. K. The preparation of wood surfaces prior to finishing. *Forest Prod. Res. Soc. Proc.* 2: 215-217. 1948. 99.9 F7662P

18614 WAMPLER, R. H. Drying time of finishes. *Wood [Chicago]* 3(12): 22, 42, 44, 46, 48. Dec. 1948. 99.82 W859

18615 WAMPLER, R. H. Varnishes. *Wood [Chicago]* 3(11): 17, 44, 46. Nov. 1948. 99.82 W859

#### FOREST PRODUCTS

18616 ART, R. C. Tie ways of the Nation. *Wood [Chicago]* 3(12): 17-19, 48, 50, 52. Ref. Dec. 1948. 99.82 W859

18617 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Mountain ash T. & G. flooring, by K. L. Cooper and J. J. Mack. *South Melbourne*, 1947. 12 p. (Its Proj. T. M. 23-1, Prog. Rpt. 2) 99.77 Au7M

18618 BAILEY, L. F. Leaf oils from Tennessee valley conifers. *J. Forestry* 46: 882-889. Ref. Dec. 1948. 99.8 F768

18619 BAKER, R. M. Principles of dielectric heating. *Forest Prod. Res. Soc. Proc.* 2: 219-225. 1948. 99.9 F7662P

18620 BLUM, G. Leitworte für künftige holzhändler. *Holz-Zentbl.* 74: 594. Dec. 7, 1948. Dec. 7, 1948. 99.81 H742

18621 BRAUNS, F. E. Lignin—a botanical raw material. *Econ. Bot.* 2: 419-435. Ref. Oct./Dec. 1948. 450 Ec7

18622 BUCHANAN, M. A., BRAUNS, F. E., and LEAF, R. L., JR. Native lignin - native aspen lignin. *Paper Indus. & Paper World* 30(9): 1399. (Abs.) Dec. 1948. 302.8 P1923

18623 BURKHART, R. L. Interior trim from wood waste. *Forest Prod. Res. Soc. Proc.* 2: 78-80. 1948. 99.9 F7662P

Discussion, p. 80-82.

18624 CHAMBERLAND, R. Le commerce des arbres de noël dans les villes de Hull et d'Ottawa. *Forêt Québécoise* 13: 763-767, 770-772. Dec. 1948. 99.8 F79 English summary, p. 790.

18625 CLERMONT, L. P., and SCHWARTZ, H. Studies on the chemical composition of bark and its utilization for structural boards. *Forest Prod. Res. Soc. Proc.* 2: 130-135. Ref. 1948. 99.9 F7662P

18626 DAVIS, E. M. Woodworking machinery guide. *Wood [Chicago]* 3(12): 33-34. Dec. 1948. 99.82 W859

18627 DIERFELD. Stand und entwicklungsmöglichkeiten des fahrzeug-gaserzeugers in der Ostzone. *Forstw., Holzw.* 1: 193-196. Oct. 1, 1947. 99.8 F7793

18628 ELMENDORF, A. Forest products research in industry laboratories. *Forest Prod. Res. Soc. Proc.* 2: 138-140. 1948. 99.9 F7662P

18629 FORBES, R. H. Rocky mt. pole merchants. *Wood [Chicago]* 3(11): 23. Nov. 1948. 99.82 W859

18630 FOREST PRODUCTS RESEARCH SOCIETY. Proceedings, v. 2. Madison, Wis., 1948. 495 p. 99.9 F7662P

18631 HARRIS, E. E. Animal feeds from wood residue. *Forest Prod. Res. Soc. Proc.* 2: 60-64. Ref. 1948. 99.9 F7662P

Discussion, p. 64-65.

18632 HOWES, F. N. Logwood and writing ink. *Kew B.* 1948: 248-251. 451 K51B

18633 HUNT, G. M. The Forest Products Laboratory and industry research. *South. Lumberman* 177(2225): 308, 310, 312. Jan. 3, 1949. 99.81 So82

18634 HYLER, J. E. The turning question. *Wood [Chicago]* 3(11): 24, 50. Nov. 1948. 99.82 W859

18635 INDO-CHINA, FRENCH. COMMISSARIAT GÉNÉRAL DU PLAN DE L'UNION FRANÇAISE. 1. La production forestière en Indochine. 2. L'élevage en Indochine. Saigon, 1947, 36 p. (Supplément au Bulletin de Renseignements Économiques. 9) 34.5 In2

18636 KESPER, J. Die Holzvergasung als mittel einer wirtschaftlichen verwertung der abfallhölzer zur kraftgewinnung in forst- und holzwirtschaftsbetrieben. *Forst u. Holz* 3: 240-241. Dec. 1, 1948. 99.8 F7724

18637 LEE, E. J. Christmas tree conservation. *Green Thumb* 5(12): 20-22. Dec. 1948. 80 G82

18638 LOEHR, R. C. Preserving the history of the forest products industries. *South. Lumberman* 177(2225): 271-272, 274-276. Jan. 3, 1949. 99.81 So82

18639 MANG, J. Kohlenförderung und grubenholz. *Forstw., Holzw.* 2: 40-41. Feb. 1, 1948. 99.8 F7793

18640 MANG, J. Mehrteilige holzstempel im bergbau. *Forstw., Holzw.* 1: 178-180. Sept. 15, 1947. 99.8 F7793

18641 MANG, J. Ruhrkohlenförderung und grubenholz. *Holz-Zentbl.* 73: 98-99. Mar. 27, 1947. 99.81 H742

18642 MANG, J. Schwellen im bergbau. *Holz-Zentbl.* 73: 219. July 3, 1947. 99.81 H742

18643 MANG, J. Die überwindung des grubenholz-mangels. *Forstw., Holzw.* 2: 52-53. Feb. 15, 1948. 99.8 F7793

18644 MANG, J. Zweckmässigkeit im grubenholzlager. *Forstw., Holzw.* 1: 247-250. Nov. 15, 1947. 99.8 F7793

18645 MARINOS, G. Forest products utilization. (In Greek.) *Dasos* 1(2/3): 40-44. 1947. 99.8 D262

18646 MARKWARDT, L. J. Coordination of research in the field of forest products. *Forest Prod. Res. Soc. Proc.* 2: 145-146. 1948. 99.9 F7662P

18647 MEIER, W. Spänefreiheit ohne absaugung. *Forstw., Holzw.* 1: 205. Oct. 1, 1947. 99.8 F7793

18648 METCALFE, C. R. The elder tree (*Sambucus nigra* L.) as a source of pith, pegwood and charcoal, with some notes on the structure of the wood. *Kew B.* 1948: 163-169. 451 K51B

18649 MOLL, F. Splisse für die dachdeckung in theorie, phantasie und praxis. *Holz-Zentbl.* 73: 215-217. July 3, 1947. 99.81 H742

18650 RAWLINS, R. Hardwoods enter the archery business. *South. Lumberman* 177(2225): 226-228. Jan. 3, 1949. 99.81 So82

18651 SANDS, W. M., and MALCOLM, F. B. Cut-stock possibilities in wood-consuming industries in Mid-western States. *U. S. Forest Serv. Forest Prod. Lab. Mimeog.* D1724, 29 p. Sept. 1948. 1.9 F761R

18652 SCHMITTUTZ, C. Der leitungsmast. *Holz-Zentbl.* 73: 81-82, 86. Mar. 13, 1947. 99.81 H742

18653 SCHWARZ, J. R. Der wert von sägespänen als dünge- und streumittel. *Pflug* 1: 180. Nov. 1948. 14 P48

18654 SEABORNE, R. L. Utilization of sawmill slabs and edgings. *Forestry Chron.* 24: 263-265. Dec. 1948. 99.8 F7623

18655 SNOW, A. G. JR. Turpentine and poles. *South. Lumberman* 177(2225): 276, 278-279. Jan. 3, 1949. 99.81 So82

18656 SPROULL, R. C. Research for southern forest products. *South. Lumberman* 177(2225): 338, 340, 342-343. Jan. 3, 1949. 99.81 So82

18657 STEER, H. B., comp. Lumber production in the United States, 1799-1946. *U. S. D. A. Misc. P.* 669, 233 p. Ref. Oct. 1948. 1 Ag84M

Statistics. 18658 TEXTOR, C. K. Wood-fiber production with revolving disk mills. *Forest Prod. Res. Soc. Proc.* 2: 89-98. 1948. 99.9 F7662P

Discussion, p. 98-99.

18659 WINTERS, R. K. The importance of economic considerations in wood-waste utilization research. *Forest Prod. Res. Soc. Proc.* 2: 15-21. 1948. 99.9 F7662P

Discussion, p. 21-23.

18660 YEARBOOK of forest products statistics, 1947. Washington, Food and Agr. Organ. of the United Nations, 1948. 208 p. 99.9 Y3

18661 ZIEGER. Untersuchungen über den eintritt der schälbarkeit der fichtenrinde im frühjahr 1947. *Forstw., Holzw.* 1: 270-273. Dec. 1/15, 1947. 99.8 F7793



Building Construction

18662 NICHOLS, W. Further notes on laminated compressed wood. *Timber & Plywood* 95: 625-626. Oct. 14, 1948. 99.81 T489

18663 PARKER, H. Simplified design of structural timber. New York, Wiley, 1948. 218 p. 99.79 P22

Charcoal

18664 BEGLINGER, E. Some observations regarding the status of the wood-distillation industry. *Forest Prod. Res. Soc. Proc.* 2: 49-54. 1948. 99.9 F662P

18665 GOOS, A. W., TREPANIER, M. A., and JOHNSTON, M. K. Some experiments in sawdust carbonization. *Forest Prod. Res. Soc. Proc.* 2: 55-59. 1948. 99.9 F7662P

Containers

18666 BORKENHAGEN, E. H., and KUELLING, H. J. Nail clinching improves wood box joint strength. *Wooden Box & Crate* 10(5): 21-24. 1948. 99.82 W857

18667 BURKE, G. F., and BEESON, R. W. Irrigation agriculture in its relation to lumber requirements. *Unasylva* 2: 237-242. Sept./Oct. 1948. 99.8 Un1  
Containers for California fruit and vegetables.

18668 FIBRE BOX ASSOCIATION. Handbook, corrugated and solid fibreboard boxes and products. Chicago, 1948. 76 p. 302 F44

18669 SARDO, W. H., JR. What's new in wood boxes and wood pallets in 1948. *Wooden Box & Crate* 10(5): 10-13. (To be cont.) 1948. 99.82 W857

18670 SCOTT, I. Roll out the barrels. *New England Homestead* 121(24): 6-7. Dec. 25, 1948. 6 N442  
Potato barrel manufacture.

Cork

18671 BERNARDO, H. DE B. Protests against the cork monopolies in the 15th and 16th centuries. (In Portuguese.) *Portugal. Junta Nac. da Cortiça. B.* 10: 181-184. Feb. 1948. 309.9 J96  
English summary, p. XXVIII.

18672 BOLÉO, O. The use of cork in colonial type constructions. (In Portuguese.) *Portugal. Junta Nac. da Cortiça. B.* 10: 505-506. Aug. 1948. 309.9 J96  
English summary, p. LXXXVI-LXXXVII.

18673 COOKE, G. B. Cork and cork products. *Econ. Bot.* 2: 393-402. Oct./Dec. 1948. 450 Ec7

18674 MARTINS, C. M. A. Crisis in the corkstopper industry? (In Portuguese.) *Portugal. Junta Nac. da Cortiça. B.* 10: 72-75, 123-127, 401-406, 511-514. Dec. 1947-Jan., June, Aug. 1948. 309.9 J96  
English summary, p. XI-XII, XX-XXI, LXVIII.

18675 MATTOSO, A. G. Cork in shoemaking. (In Portuguese.) *Portugal. Junta Nac. da Cortiça. B.* 10: 285-286. Apr. 1948. 309.9 J96  
English summary, p. XLIV.

18676 NEVES, C. M. B. "Scientific investigation" and the problems of cork oak "protection" in Ribatejo. (In Portuguese.) *Portugal. Junta Nac. da Cortiça. B.* 10: 386-389. June 1948. 309.9 J96  
English summary, p. LXIII-LXIV.

18677 PERKINS, J. B., MAYS, E. G., and NEVILLE, K. German cork industry (natural and composition) for bottle closures, etc. U. S. Off. Tech. Serv. PB Rpt. 87937, 17 p. 1947. 157.8 R29

British Intelligence Objectives Sub-Committee Final Report 1540.

18678 SANTOS, S. Cork production and trade in the province of Huelva. (In Portuguese.) *Portugal. Junta Nac. da Cortiça. B.* 10: 239-240. Mar. 1948. 309.9 J96  
English summary, p. XXXVI-XXXVII.

Furniture

18679 BOOTH, F. L. Veneered desks for youth and adult. *Veneers & Plywood* 42(12): 16, 18. Dec. 1948. 99.82 V515

18680 JOHNSON, E. S. Machinery & clamping device. *Furniture* 63(12): 56-58, 60. Dec. 1948. 300.8 F982

18681 VOLLMER, A. Leistungsmessung in der möbelindustrie. *Holz-Zentbl.* 74: 501. Nov. 5, 1948. 99.81 H742

Naval Stores

18682 HARRIS, G. C. Resin acids. V. The composition of the gum oleoresin acids of *Pinus palustris*. *Amer. Chem. Soc. J.* 70: 3671-3674. Nov. 1948. 381 Am33J

18683 KALELA, E. K. Harzgewinnungsversuche in nordischen kiefernwaldungen. (In Finnish.) *Acta Forest. Fenn.* 52(3): 1-39. Ref. 1947. 99.9 F492  
German summary.

18684 LU, C. Y. Studies on the dipping of pine balsam in Taiwan. I. (In Chinese.) *Taiwan. Forest Res. Inst. B.* 2, 12 p. Apr. 1947. 99.9 F7652

18685 MÖBIUS. Die harzgewinnung von fichte und kiefer in Deutschland bis 1945. *Forstw., Holzw.* 2: 5-10. Jan. 1, 1948. 99.8 F7793

Pulp and Paper

18686 ARIES, R. S. The pulping of southern New England hardwoods. *Tech. Assoc. Pulp & Paper Indus., Tech. Assoc. Papers* 31: 460-466. June 1948. 302.9 T22

18687 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Comparison of salt effects with water-washed and acid-washed Eucalypt soda pulp. Progress report No. 6. South Melbourne, 1948. 6 p. (Its Proj. Sub-proj. P.P.6-8) 302.9 Au7

18688 BENSON, H. K. Products from pulp and pulpwood on Pacific Coast. *Tech. Assoc. Pulp & Paper Indus., Tech. Assoc. Papers* 31: 641-645. June 1948. 302.9 T22

18689 BROWN, W. W. A horizontal disc chipper. *Paper Trade J.* 127(26): 15-17. Dec. 23, 1948. 302.8 P196

18690 HASTINGS, E. C. Rail shipment requirements change Dec. 30. *Paper Trade J.* 127(25): 13, 34. Dec. 16, 1948. 302.8 P196

18691 ISENBERG, I. H. Coordination of research in the pulp and paper industry. *Forest Prod. Res. Soc. Proc.* 2: 141-142. 1948. 99.9 F7662P

18692 JENNESS, L. C., and NYSTROM, G. L. Sulphite semichemical pulping of chip screenings. *Tech. Assoc. Pulp & Paper Indus., Tech. Assoc. Papers* 31: 443-445. Ref. June 1948. 302.9 T22

18693 KINGSBURY, R. M., LEWIS, E. S., and SIMMONDS, F. A. Observations on bleaching groundwood pulps. *Tech. Assoc. Pulp & Paper Indus., Tech. Assoc. Papers* 31: 185-189. June 1948. 302.9 T22

18694 LOCKWOOD'S directory of the paper, and allied trades, 1949. Ed. 74. New York, Lockwood Trade J. Co., 1948. 1420 p. 302 L81

18695 LOWGREN, U. Wood pulping by the Asplund Defibrator. *Forest Prod. Res. Soc. Proc.* 2: 83-87. 1948. 99.9 F7662P

Discussion, p. 87-88.

18696 MCGOVERN, J. N., and KELLER, E. L. Some experiments in sodium sulfite pulping. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1728, 10 p. Aug. 1948. 1.9 F761R

18697 MALSBERGER, H. J. Forestry program of the southern pulpwood industry. *South. Lumberman* 177 (2225): 191-194. Jan. 3, 1949. 99.81 So82

18698 MARCH, R. E. The effect on pulp quality of the stepwise removal and replacement of the hemicelluloses from aspen holocellulose. *Tech. Assoc. Pulp & Paper Indus., Tech. Assoc. Papers* 31: 240-246. Ref. June 1948. 302.9 T22

18699 PATCH, C. E. Experiences with pulpwood handling and accounting. *Tech. Assoc. Pulp & Paper Indus., Tech. Assoc. Papers* 31: 549-553. June 1948. 302.9 T22

18700 RANKIN, R. L. China increases allocations for purchase of woodpulp abroad. *Foreign Trade* 4: 1193-1195. Dec. 11, 1948. 286.8 C162

18701 SHEMA, B. F. A method for the determination of the resistance of paper and paperboard to penetration by fungi. *Tech. Assoc. Pulp & Paper Indus., Tech. Assoc. Papers* 31: 364-365. June 1948. 302.9 T22

Also in *Paper Trade J.* 127(26): 41-42. Dec. 23, 1948. 302.8 P196

18702 SHIUE, C. J., and HUNG, C. M. Studies on the pulping of Chinese pine (*Pinus massoniana* Lamb.). (In Chinese.) *Taiwan. Forest Res. Inst. B.* 1, 24 p. Ref. Mar. 1947. 99.9 F7652  
English summary.

18703 TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY. Technical Association Papers, 31. New York, June 1948. 822 p. 302.9 T22



### Tanning Material

- 18704 DEMME. Die gerbrindengewinnung in den grossen befallgebieten des buchdruckers [Ips typographus] Forstw., Holzw. 1: 273. Dec. 1/15, 1947. 99.8 F7793
- 18705 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. TECHNICAL COLLABORATION BR. Some basic information regarding tannins and tannin-yielding crops, by S. B. Detwiler. Washington, 1948. 112 p. Ref. 1.943 So52

### Veneers, Plywood, and Adhesives

- 18706 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Basic studies on the drying of "ash" eucalypt veneers. Working plan, by E. L. Ellwood. South Melbourne, 1948. 5 p. (Its. Proj. S. 7. Expt. S. 7-8-Y-9(a)) 300 Au7B
- 18707 BENE, J. Yield and wood waste utilization in German hardwood plywood plants. U. S. Off. Tech. Serv. PB Rpt. 87907, 14 p. 1947. 157.8 R29
- British Intelligence Objectives Sub-Committee Final Report 1586.
- 18708 COLUCCI, G. Special machines for utilization of waste slabs for glued core stock. Forest Prod. Res. Soc. Proc. 2: 73-77. 1948. 99.9 F7662P
- 18709 CUNNINGHAM, J. B. Application of radio-frequency tooling. Forest Prod. Res. Soc. Proc. 2: 260-269. 1948. 99.9 F7662P
- Discussion, p. 269-270.
- 18710 DIMOND, L. E. Glues for use with high-frequency heating. Forest Prod. Res. Soc. Proc. 2: 226-231. 1948. 99.9 F7662P
- Discussion, p. 231-234.
- 18711 FLEISCHER, H. O. Design of heating equipment for veneer logs. South. Lumberman 177(2225): 324, 326-328, 330. Jan. 3, 1949. 99.81 So82
- 18712 GARLAND, H. Aspen for veneer. 2. Wood Prod. 53(12): 19-20, 22. Dec. 1948. 99.82 W856
- 18713 KNAUSS, A. C., and SELBO, M. L. Laminating of structural wood products by gluing. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1635, rev., 63 p. Oct. 1948. 1.9 F761R
- 18714 MACLAGAN, C. F. Post gluing. Furniture 63(12): 48-49. Dec. 1948. 300.8 F982
- Also in South. Lumberman 177(2225): 343-344. Jan. 3, 1949. 99.81 So82
- 18715 MARRA, A. A. The technology of the glue line in electronic edge-gluing of lumber. Forest Prod. Res. Soc. Proc. 2: 245-254. 1948. 99.9 F7662P
- Discussion, p. 254-256.
- 18716 MOSER, H. C. Edge-gluing engineering and production systems. Forest Prod. Res. Soc. Proc. 2: 257-259. 1948. 99.9 F7662P
- 18717 NICHOLS, W. Plywood in building. 1. Timber & Plywood 95: 873-874, 876. Nov. 25, 1948. 99.81 T489
- 18718 NORRIS, C. B., and RINGELSTETTER, L. A. Buckling of stiffened, flat, plywood plates in compression; a single stiffener parallel to stress face grain of plywood at 45° to its edge. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1553-C, 9 p. Oct. 1948. 1.9 F761R
- 18719 NORRIS, C. B., WERREN, F., and MCKINNON, P. F. The effect of veneer thickness and grain direction on the shear strength of plywood. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1801, 28 p. July 1948. 1.9 F761R
- 18720 PANEK, E., and HEEBINK, B. G. Repair of aircraft sandwich constructions. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1584, 11 p. May 1948. 1.9 F761R
- 18721 PERRY, T. D. Hot pressed plywood for every shop. Wood Prod. 53(12): 39-40, 42, 44. Dec. 1948. 99.82 W856
- 18722 SELBO, M. L. Durability of resorcinol glue bonds in gusset-type assembly joints similar to those used in wood boats. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1714, 11 p. May 1948. 1.9 F761R
- 18723 SELBO, M. L. Effect of mixing flat and vertical grain in laminated white oak beams. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1718, 4 p. June 1948. 1.9 F761R
- 18724 SELBO, M. L. Effect of width and thickness of laminations in laminated white oak beams upon the strength and durability of the glue bond. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1713, 6 p. June 1948. 1.9 F761R
- 18725 STEARNS, J. L. The woods you use: African veneer woods. Wood [Chicago] 3(11): 20-22, 51-52; (12): 28, 58. Nov.-Dec. 1948. 99.82 W859

- 18726 TRUAX, T. R., and SELBO, M. L. Results of accelerated tests and long-term exposures on glue joints in laminated beams. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1729, 8 p. Oct. 1948. 1.9 F761R
- 18727 VAN EPPS, C. P. The handling and use of synthetic resin glues. South. Lumberman 177(2225): 334-336. Jan. 3, 1949. 99.81 So82
- 18728 VILLIÈRE, A., and LEEUW, J. DE. Les colles à bois. France. Serv. Cent. d'Essais des Bois. Brochure Tech. 6, 70 p. Apr. 1948. 99.9 F848
- 18729 WANGAARD, F. F. Preparation of stock for gluing. South. Lumberman 177(2225): 344, 346. Jan. 3, 1949. 99.81 So82
- 18730 YOLTON, L. A. Development of a sandwich-type cargo floor for transport aircraft. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1550-C, 16 p. Oct. 1947. 1.9 F761R

### Wood as Fuel

- 18731 BOWLING, R. T. Small wood briquetting machine. Forest Prod. Res. Soc. Proc. 2: 67-72. 1948. 99.9 F7662P
- 18732 KEYLWERTH, R. Der brennholzeinschlag 1946—sein ausmass, seine bedeutung, seine folgen. Reichsinst. f. Forst- u. Holzwirtschaft. Merkbl. 1, 10 p. Nov. 1947. 99.9 R273Mh
- English, French, and Spanish summaries.
- 18733 KILIAS, S. Fuel from the forest. (In Greek.) Dasos 1(2/3): 4-12. 1947. 99.8 D262
- 18734 SCHRODER, W. Brennholz! Forstw., Holzw. 2: 138-139. May 1, 1948. 99.8 F7793
- 18735 SNODGRASS, M. H. Modern bark burning. Tech. Assoc. Pulp & Paper Indus., Tech. Assoc. Papers 31: 538-540. June 1948. 302.9 T22

### MISCELLANEOUS

- 18736 BALCH, R. E. British Empire Forestry Conference. Canad. Soc. Forest Engin. Marit. Sect. Ann. Rpt. (1947) 11: 17-23. 1948. 99.8 C167A
- 18737 BEER. Die grosse initiative auch in der forstwirtschaft. Forstw., Holzw. 2: 225-227. Aug. 1, 1948. 99.8 F7793
- 18738 BEER, F. Tradition und fortschritt in der forstwirtschaft. Forstw., Holzw. 2: 236-238. Aug. 1, 1948. 99.8 F7793
- 18739 CANADIAN SOCIETY OF FOREST ENGINEERS. MARITIME SECT. Annual report, 11, 1947. Fredericton, N. B., 1948. 140 p. 99.8 C167A
- 18740 CORKHILL, T. A glossary of wood. London, Nema Press, 1948. 655 p. 99.01 C81
- 18741 EKLUND, B. The organization and work of the Swedish Forest Research Institute. Unasylva 2: 243-251. Sept./Oct. 1948. 99.8 Un1
- 18742 ENDRES, E. Der wald in der bildenden kunst. Forstw., Holzw. 2: 181-183. June 1/15, 1948. 99.8 F7793
- 18743 ENDRES, E. Der wald in der malerei vom 14. bis 16. jahrhundert. Forstw., Holzw. 2: 234-236. Aug. 1, 1948. 99.8 F7793
- 18744 GANSSEN, R. Versuch einer gliederung deutscher waldböden. Reichsinst. f. Forst- u. Holzwirtschaft. Mitt. 3, 9 p. Ref. Feb. 1948. 99.9 R273
- English, French, and Spanish summaries.
- 18745 GILLET, C. A. The American tree-farm movement. Unasylva 2: 233-236. Sept./Oct. 1948. 99.8 Un1
- 18746 JAUME, J. El arbol. Balearic Isl. Diputacion Prov. B. de Agr. 38: 3-4. Nov. 1947. 15 B19
- 18747 KARRAS, D. The farmer and the forest. (In Greek.) Dasos 1(2/3): 23-27. 1947. 99.8 D262
- 18748 KAUFERT, F. H. A plan for coordination of research. Forest Prod. Res. Soc. Proc. 2: 143-144. 1948. 99.9 F7662P
- 18749 KNIGHT, G. E. The romance of forest trees. Sylva 4(5): 33-39. 1948. 99.8 Sy5
- 18750 LACOURCIÈRE, L. Le folklore forestier. Forêt Quebecoise 13: 739-740. Dec. 1948. 99.8 F79
- 18751 LARSEN, C. M. About the Hunting and Forestry Museum. (In Danish.) Dansk Skovfor. Tidsskr. 33: 460-463. Oct. 1948. 99.8 D23
- 18752 LARSSON, E. The school children in the forest. (In Swedish.) Skogen 35: 277. Dec. 1, 1948. 99.8 Sk51



- 18753 MACKEY, T. E. Junior forest rangers. *Sylvia* 4(5): 25-28. 1948. 99.8 Sy5
- 18754 MUNNS, E. N. Forest research in Poland. *J. Forestry* 46: 903-907. Dec. 1948. 99.8 F768
- 18755 MURGUEITIO, R. Seguimos destruyendo nuestros bosques. *Palmira. Estac. Agr. Expt. B. de Inform. Agropecuaria* 1664, 2 p. Sept. 15, 1948. 102.5 P18B
- 18756 NEIDE, K. H. Leipziger herbstmesse und holzwirtschaftliche probleme. *Forstw., Holzw.* 1: 203-204. Oct. 1, 1947. 99.8 F7793
- 18757 NORDISKE SKOGKONGRESS, 6, NORWAY, 1947. 6. Nordiske Skogkongress, Norge, 1947. Oslo, Arbeidernes Aktietrykkeri, 1948. 190 p. 99.9 N75
- 18758 ORR, J. B. Save the forests. *Organic Farming Digest* 1(11): 19-22. Oct./Dec. 1948. 56.8 Or32
- 18759 PFALZGRAF. Forstwirtschaft contra holzwirtschaft. *Forstw., Holzw.* 2: 33-34. Feb. 1, 1948. 99.8 F7793
- 18760 PFALZGRAF. Die forstwirtschaft in der Deutschen Landwirtschafts-Gesellschaft. *Forstw., Holzw.* 2: 145-146. May 15, 1948. 99.8 F7793
- 18761 PREISSLER, L. Statistik im forstlichen kulturbetrieb. *Forstw., Holzw.* 2: 80-83. Mar. 1/15, 1948. 99.8 F7793
- 18762 STAMBOLIS, G. Nature - lovers and forest. (In Greek.) *Dasos* 1(1): 55-57. 1947. 99.8 D262  
Titles in English and French.
- 18763 THALASSINOS, D. The heavy task of the Greek foresters. (In Greek.) *Dasos* 1(1): 88-93. 1947. 99.8 D262  
Titles in English and French.
- 18764 THRUENSEN, R. Men at work: forest ranger. *Sta. Eve. Post* 221(28): 32, 90-92, 94, 96-97. Jan. 8, 1949. 110 S28
- 18765 U. S. EXTENSION SERV. Addresses of State extension foresters. Washington, 1948. 4 p. 1.913 A2Ad12
- 18766 VAUGHAN, R. DE B. Trees and children. (In Portuguese.) *Chacaras e Quintais* 78: 591-592. Nov. 15, 1948. 9.2 C34  
Tree planting by children.
- 18767 VITAS, G. Forest conservation in the Bible. *South. Lumberman* 177(2225): 268-269. Jan. 3, 1949. 99.81 So82
- 18768 WAKELEY, P. C. Collecting pine seed can be a profitable venture. *AT-FA Journal* 11: 9, 16. Oct. 1948. 309.8 Am3

#### Education

- 18769 AREND, J. L. and ALLEN, H. V. Forestry education in France. *J. Forestry* 46: 914-917. Dec. 1948. 99.8 F768
- 18770 BARRACLOUGH, K. E. The New Hampshire intensive education program in forestry. *J. Forestry* 46: 877-880. Dec. 1948. 99.8 F768
- 18771 DELISLE, R. Cours d'initiation forestière dans les écoles d'agriculture. *Forêt Québécoise* 13: 783-788. Dec. 1948. 99.8 F79  
English summary, p. 789-790.
- 18772 FRITZ, E. California. *Wood* [Chicago] 3(12): 30, 40, 42. Dec. 1948. 99.82 W859  
School of Forestry of the University.
- 18773 KOBKE, P. Die notwendigkeit einer fachschulischen ausbildung in der holzbearbeitenden industrie und im holzhandel. *Forstw., Holzw.* 1: 254-255. Nov. 15, 1947. 99.8 F7793
- 18774 NEUDAMMER forstliches lehrbuch. Radebeul, Neumann, 1948. v. 1, 208 p. 99 Sch9N  
Chapters by K. Rubner, R. Geiger, and R. Albert.
- 18775 ROTTIN, B. Les problèmes de l'apprentissage: les futurs "compagnons" de la corporation du bois. *Bois et Scieries* 54: 887-888. Nov. 18, 1948. 99.81 B632
- 18776 STEVENS, T. D. Alabama [Polytechnic Institute]. *Wood* [Chicago] 3(11): 38, 54. Nov. 1948. 99.82 W859
- 18777 STOREY, T. A. Timber education—the costs and results. *Timber News* 56: 375, 389. Oct. 1948. 99.81 T482
- 18778 VEEN. Fortschrittliche ausbildungsvorschriften. *Forstw., Holzw.* 2: 238-239. Aug. 1, 1948. 99.8 F7793

#### Forest Engineering

- 18779 BENNETT, H. D. Road construction in forest management. *South. Lumberman* 177(2225): 135-137. Jan. 3, 1949. 99.81 So82

#### Forest Influences

- 18780 LIEBERMAN, J. A., and HOOVER, M. D. Protection quality of stream flow by better logging. *South. Lumberman* 177(2225): 236-240. Jan. 3, 1949. 99.81 So82
- 18781 MACE, J. K. Southern California watershed protection problems. *J. Forestry* 46: 908-910. Dec. 1948. 99.8 F768
- 18782 SCHUBERT, J. Der wasserhaushalt im Oder-Elbe-gebiet. *Forstw., Holzw.* 1: 230-233. Nov. 1, 1947. 99.8 F7793

#### Wildlife

- 18783 ANDERSON, W. R., and METEER, J. W. You can grow both timber and wildlife. *Ohio Forestry Assoc. News B.* 1(5): 2. Dec. 1948. 99.9 Oh34
- 18784 WRIGHT, B. S. Waterfowl as a forest product of eastern Canada. *Forestry Chron.* 24: 266-269. Dec. 1948. 99.8 F7623

#### ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

#### BREEDS AND BREEDING

- 18785 AMSCHLER, J. W. Künstliche besamung der haustiere. *Pflug* 1: 145-146. Sept. 1948. 19 P48
- 18786 ARAGUNDE, L. C. The infertility of domestic animals in Uruguay. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 56-57. June 1948. 41.8 Z7
- 18787 BANE, A. Hygienic measures for artificial insemination. (In French.) (Abs.) *Zootec. e Vet.* 3(6): 72. June 1948. 41.8 Z7
- 18788 BONADONNA, T. Can artificial insemination be a cause of degeneration? (In Italian.) *Gior. di Agr.* 58: 288. Oct. 17, 1948. 16 It1G
- 18789 BONADONNA, T. Proposals for national and international standards in matters of the use of artificial insemination. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 78-79. June 1948. 41.8 Z7
- 18790 BONADONNA, T. Proposals for the identification of spermatic materials by standard coloring. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 79-80. June 1948. 41.8 Z7
- 18791 BORGIOLO, E. The hormones and their importance in the field of reproduction and fecundity. III. (In Italian.) *Riv. di Zootec.* 21: 266-269. Ref. Aug./Sept. 1948. 49 R52
- 18792 BOSTICCO, A. Gleanings and observations on breeding in the Province of Asti. Particular notes on livestock feeding. (In Italian.) *Prog. Vet.* 3: 269-273. Aug. 15/Sept. 1, 1948. 41.8 P942
- 18793 BRASSE-BROSSARD, L. L'insémination artificielle au service de la génétique. (Abs.) *Zootec. e Vet.* 3(6): 26-28. June 1948. 41.8 Z7
- 18794 BRÜGGEMANN, H. Das für und wider der künstlichen besamung. *Landw. Wehnl. f. Westfalen u. Lippe* 105: 285-286. Nov. 6, 1948. 18 L2346
- 18795 CURASSON, G. Le climat et l'activité sexuelle des males. *Encyclopéd. Vét. Périod.* 1948: 110-112. 1948. 41.8 En1
- 18796 DASSAT, P. A center of genetics in the service of animal industry. (In Italian.) *Gior. di Agr.* 58: 326. Nov. 21, 1948. 16 It1G
- 18797 FRASER, A. The old and the new. 1. Animal breeding. *Young Farmer* 16: 185-186, 191. Nov./Dec. 1948. 10 Y8
- 18798 FRÖLICH, A. Flashes from the congress for livestock breeding, Milan, 1948. (In Swedish.) *Ladugården* 1948: 211-213. Oct. 1948. 44.8 L12
- 18799 GADOLA, A. Livestock breeding in East Africa. The female lines. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 38-39. June 1948. 41.8 Z7
- 18800 GADOLA, A. Some phases of livestock breeding in East Africa. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 36-38. June 1948. 41.8 Z7
- 18801 GARKAVI, O. Pedigreed breeds. *Molod. Kolkhoz.* 15(5): 22-23. May 1948. 110 M73  
Livestock.



- 18802 GHISLENI, P. The legal guarantee in the bargain with respect to breeding animals. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 82. June 1948. 41.8 Z7
- 18803 GHISLENI, P. Theft of genetic energy in domestic animals. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 81-82. June 1948. 41.8 Z7
- 18804 LLORENS, M. A. Práctica de la inseminación artificial en la Argentina. *Esnea* 35(1507): 1; (1508): 2; (1510): 2. Nov. 24, Dec. 3, 17, 1948. 44.8 Es5
- 18805 MARTINI, I. For a complete regimentation of artificial insemination in domestic animals. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 77. June 1948. 41.8 Z7
- 18806 MESSIERI, A. The guarantee in dealings in reproductive animals on the basis of current Italian legislation. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 81. June 1948. 41.8 Z7
- 18807 MOLLER, E. Registros genealógicos [Chile]. *Agr. Austral* 14: 7385-7404. Sept. 1948. 9.3 Ag842
- 18808 NEUMANN, A. Estaciones zootécnicas e inseminación artificial: [Chile]. *Agr. Austral* 14: 7376-7378. Sept. 1948. 9.3 Ag842
- 18809 NEVES E CASTRO, A. V. DAS. Sterility in the male animal. (In Portuguese.) *Rev. de Med. Vet. [Lisboa]* 42: 221-240. July/Sept. 1947. 41.8 R3215
- 18810 PATIÑO, R. V. Las hormonas sexuales y su empleo en la incrementación de la ganadería. Argentina. *Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino* 8 (32): 35-51. Sept. 1948. 42.8 R32
- 18811 PATOW, C. VON. Einige bemerkungen zu dem aufsatz von R. Gärtner "Die Aufgaben der Tierzucht in der Gegenwart" in heft 1 der Deutschen Tierzuchtheft vom April 1948. *Züchtungskunde* 20: 91-93. July 1948. 49 Z8
- 18812 POYER, G. Un gros inconvenient pour la fecondation artificielle sous les tropiques. (Abs.) *Zootec. e Vet.* 3(6): 65. June 1948. 41.8 Z7
- 18813 POYER, G. Le problème de la fecondation artificielle des animaux dans la colonie [Belgian Congo]. (Abs.) *Zootec. e Vet.* 3(6): 73-74. June 1948. 41.8 Z7
- 18814 QUITTET, V. Communication sur le reglementation de l'insemination artificielle en France. (Abs.) *Zootec. e Vet.* 3(6): 81. June 1948. 41.8 Z7
- 18815 RIBEIRO, J. M. La valeur des réserves en vitamine A du foie des bovines, ovines et des porcs dans la reproduction et stérilité. (Abs.) *Zootec. e Vet.* 3(6): 60. June 1948. 41.8 Z7
- 18816 SCHAETZ, F. Einiges zur schaden-und fehlerverhütung in der unfruchtbarkeitsbekämpfung bei pferd und rind. *Tierärztl. Umschau* 3: 170-173. June 1948. 41.8 T445
- 18817 TASSINARI, R. Legislative dispositions on artificial insemination matters. Critical notes. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 78. June 1948. 41.8 Z7
- 18818 TASSINARI, R. Organization of a "Provincial Center" for artificial insemination. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 78. June 1948. 41.8 Z7
- 18819 TASSINARI, R. Organization of artificial insemination. (In Italian.) *Allevatore* 4(35): 1-2. Aug. 29, 1948. 49 AL55
- 18820 TASSINARI, R. A "Provincial Center" for artificial insemination in the province of Treviso. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 77-78. June 1948. 41.8 Z7
- 18821 TAVEGGIA, T. Artificial insemination in the large livestock farms [in Italy]. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 64. June 1948. 41.8 Z7
- 18822 TERRUZZI, F. The artificial insemination center for the province of Brescia. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 64. June 1948. 41.8 Z7
- 18823 WAGNER, A. W. Patterns in breeding. *Wagging Tail* 3(5): 5-10. Oct. 1948. 48.8 W12
- 18824 WALTER, R. Neue aufgaben in der zucht der landwirtschaftlichen haustiers. (Abs.) *Zootec. e Vet.* 3(6): 30. June 1948. 41.8 Z7
- 18825 WARWICK, E. J. Genetics and animal breeding. *Wash. Agr. Expt. Sta. Pop. B.* 189, 58 p. Feb. 1948. 100 W27E
- 18827 AMSCHLER, J. W. Kohlensaurer oder phosphorsaurer kalk? *Pflug* 1: 165-166. Oct. 1948. 19 P48  
In animal nutrition.
- 18828 ARNOULD, C. Valeur nutritive comparée des fourrages: foin, pailles et bales. *Acclimatation* 75: 252. Nov. 27, 1948. 14 Ac2
- 18829 AXELSSON, J. Better hay quality than expected. (In Swedish.) *Lantmannen* 32: 795. Nov. 27, 1948. 11 L234
- 18830 BABCOCK, H. E. Fresh grass for winter feed. *Country Gent.* 118(12): 20-21. Dec. 1948. 6 C833  
Grass silage preparation.
- 18831 BERNARD, P. Pour sauver les betteraves gelées. *Monit. Agr.* 1(48): 2. Dec. 12, 1948. 14 M744  
Ensiling method.
- 18832 BIKKER, A. Specific weight of hay. (In Dutch.) Netherlands. *Landbouwwoorlichtingsdienst. Maandbl.* 5: 479-481. Oct. 1948. 12 N383M
- 18833 BIRD, H. R. Arsenic and new vitamins. *Flour & Feed* 49(8): 42. Jan. 1949. 298.8 F66  
In feed.
- 18834 BOHSTEDT, G. Trace minerals in animal feeds. *Feed Bag* 24(12): 15, 90-91. Dec. 1948. 389.78 F32
- 18835 BOUCHER, R. V. Utilization of yeast in livestock and specialty feeds. (Abs.) *Brewers Digest* 23(12): 52-53. Dec. 1948. 390.8 B75
- 18836 BRANION, H. D. Livestock and soil deficiencies. *Canad. Countryman* 37(25): 23-24. Dec. 11, 1948. 7 C833
- 18837 BRASINGTON, J. J. Cattle grazing in south Alabama and west Florida forests. *South. Lumberman* 177(2225): 183-186. Jan. 3, 1949. 99.81 So82  
99.81 So82
- 18838 BURGOS, C. X. Animal rations from foods locally available. *Philippine Livestock Mag.* 2: 88-89, 103, 111-112, 118-121, 126, 144, 151. Feb./Mar.-Apr. 1948. 49 P53
- 18839 CORAZZA, A. Nutrition and animal physiology. (In French.) (Abs.) *Zootec. e Vet.* 3(6): 33. June 1948. 41.8 Z7
- 18840 CORPORACIÓN DE VENTAS DE SALITRE Y YODO DE CHILE. El suplemento mineral yodado para la alimentación de los animales. Santiago, 1948. 19 p. 389.7 C813
- 18841 DÍAZ UNGRÍA, C. Los minerales en la alimentación animal. *Veterinaria* 12: 515-545. Ref. Aug. 1948. 41.8 V6429
- 18842 DIJKSTRA, N. D. Experiments with silage manufacture with Vitasin. (In Dutch.) Netherlands. *Landbouwwoorlichtingsdienst. Maandbl.* 5: 302-309. July 1948. 12 N383M
- 18843 ESPARZA FABARES, R. Proteínas, su metabolismo y contenido en algunos pastos y forrajes. *Agrotecnia* 2: 612-617. Aug./Sept. 1948. 8 Ag825
- 18844 ESTNER, B. Kartoffelkraut mit mais als silofutter. *Landw. Wchnbl.* 138: 263. Sept. 18, 1948. 18 L2338
- 18845 GALLOWAY, J. E. What do minerals do? *Calif. Dairyman* 28(23): 52-53. Dec. 18, 1948. 44.8 C12  
In animal nutrition.
- 18846 GAYAN S., C. El yodo en la alimentación de los animales. *Campo [La Paz]* 2(15): 45-48. July 1948. 9.1 C15
- 18847 GRUBER, J. Ersatzfuttermittel und ihr praktischer wert. *Pflug* 1: 147-148. Sept. 1948. 19 P48
- 18848 JANSSEN, R. W. Good results with silage manufacture of potatoes. (In Dutch.) *Boer en Tuinder* 2(96): 1-2. Nov. 6, 1948. 12 B632
- 18849 JARL, F. The stability of carotene in hay during storage [In Swedish]. Sweden. *Lantbrukshögsk. Husdjurförsöksanst. Särtryck och Förhandsmeddel.* 69, 12 p. 1948. 49.9 Up6  
English summary.
- 18850 JENSEN, H. E. Nutritional requirements of small animals. *Allied Vet.* 19(6): 11-13. (To be cont.) Nov./Dec. 1948. 41.8 AL5
- 18851 KEHAR, N. D., and TALAPATRA, S. K. Studies on the curing of poisonous jawar (Sorghum vulgare) Pers. *Indian J. Vet. Sci. & Anim. Husb.* 17: 101-103. Ref. June 1947. 41.8 In22
- 18852 KOK, E. A. Pasture and grasslands. (In Portuguese.) *Rev. dos Criadores* 18(9): 88-89. Sept. 1948. 43.8 R32

## FEEDS AND FEEDING

- 18826 ALLENDER, C. R. Potatoes for livestock feed. *U. S. D. A. Misc. P.* 676, 45 p. Ref. Oct. 1948. 1 Ag84M



- 18853 LEROY, A. M., and DELAGE, J. Utilisation zootechnique des tourteaux. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 315-318. Apr./May 1948. 14 F844B
- 18854 LESBOUYRIES, G. Avitaminose E des mammifères domestiques. Acad. Natl. de Méd. B. 131: 623-626. Nov. 4/18, 1947. 448.9 P21
- 18855 MCKEE, R. Sweet lupines offer an additional livestock feed crop to Southern farmers. U. S. Agr. Res. Admin. Res. Achvt. Sheet 104, 2 p. Oct. 1948. 1.98 R31
- 18856 MAYMONE, B. Research on the nutritive value of sulla. (In Italian.) Riv. di Zootec. 21: 273-278. Aug./Sept. 1948. 49 R52
- 18857 MAYNARD, E. J. Does it pay to silo beet tops? Irrig. Farmer 6(7): 3. Nov. 4, 1948. 55.8 Ir78
- 18858 MESTRES, A., and JAUME, J. El orujo de la uva en la alimentación del ganado. Balearic Isl. Diputación Prov. B. de Agr. 48: 7-8. Sept. 1948. 15 B19
- 18859 MONARD, A. Comment utiliser les feuilles de betteraves. Unité Paysanne 3(154): 1, 4. Oct. 16, 1948. 14 Un3  
As feed.
- 18860 MORALES, P. T. El ganado como "máquina transformadora de materia prima." Chacra 17(200): 16. June 1947. 9 C34
- 18861 MUKHERJEE, R. The effect of calcium supplement on the digestion of organic nutrients in fodders in which lime content is either low or has a tendency of poor assimilation. Indian J. Vet. Sci. & Anim. Husb. 17: 85-88. June 1947. 41.8 In22
- 18862 NATIONAL COTTONSEED PRODUCTS ASSOCIATION. 1949 feeding practices. Dallas, Tex., 1948. 40 p. 72.9 N213B
- 18863 OLIVE, J. P. L'emploi des feuilles et collets de betteraves dans l'alimentation du bétail. Agr. Prat. 112: 358-359. Oct. 1948. 14 J82
- 18864 PACI, C. Some aspects of the nutritive factor in relation to reproduction. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 34. June 1948. 41.8 Z7
- 18865 PARISI, O. The nutritive value of the fodder called "ureate mixture." (In Italian.) (Abs.) Zootec. e Vet. 3(6): 33-34. June 1948. 41.8 Z7
- 18866 PATERSON, R. Silage making is not the big man's prerogative—but let us have more information regarding methods and costings to prove it. Farmers Weekly [London] 29(25): 39, 41. Dec. 17, 1948. 10 F2228
- 18867 PAUL, T. M., and RANGASAMY, M. C. Suitability of sugarcane tops for silage making. Indian J. Vet. Sci. & Anim. Husb. 17: 48-51. Mar. 1947. 41.8 In22
- 18868 PENCE, D. S. A complete educational feeding program. Amer. Farm Youth 14(7): 25-26. Dec. 1948. 6 Am393
- 18869 PENDERS. Potatoes as fodder. (In Dutch.) Boer en Tuinder 2(95): 4. Oct. 30, 1948. 12 B632
- 18870 PERCEIVAL, A. W. Potatoes: their value depends on the way they are fed. Smallholder 80(2017): 20. Nov. 26, 1948. 10 Sml
- 18871 PERUCHON DE BROCHARD, J. Les aliments composés pour le bétail. Unité Paysanne 3(153): 1, 4. Oct. 9, 1948. 14 Un3
- 18872 PERUCHON DE BROCHARD, J. La vérification et l'homologation avant fabrication des formules d'aliments composés pour le bétail. Terre d'Oc 30: 430-433. Oct. 1948. 14 Ar5
- 18873 POELT, H. Gärfutterbereitung mit kohlen-säure. Landw. Wchnbl. 138: 249-250. Sept. 11, 1948. 18 L2338
- 18874 POELT, H. Rote und gelbe rüben als viehfutter. Landw. Wchnbl. 138: 340. Oct. 30, 1948. 18 L2338
- 18875 RAUSCHER. Die fütterung von rübenblatt. Oberösterreich. Landwirtschaftsztg. 20(42): 4. Oct. 13, 1948. 19 Ob23  
Sugar beets.
- 18876 RAYNS, F. Growers should feed their sugar beet tops. Brit. Sugar Beet Rev. 17: 17-19. Sept. 1948. 66.8 B77
- 18877 REBIFFÉ, J. Nourriture du bétail. Défense Agr. de la Beauce et du Perche 45: 337. Dec. 10, 1948. 14 D36
- 18878 RIEGER, J. Kartoffelflockenfütterung rentabel? Landw. Wchnbl. 138: 351. Nov. 6, 1948. 18 L2338
- 18879 ROBL. Ernte und aufbewahrung der futterrüben; frischverfütterung und einsäuerung der rübenblätter. Österr. Bauernbündler 4(41): 4. Oct. 16, 1948. 19 Os7
- 18880 ROUMIGUIÈRE, F. Importancia de las praderas perennes en la ganadería. Campo y Suelo Argentino 32(384): 21. Oct. 1948. 9 C15
- 18881 RUDE. Wann wird das einsäuerungsverbot für kartoffeln aufgehoben? Württemb. Wchnbl. f. Landw. 115: 270-271. Oct. 2, 1948. 18 W96
- 18882 RUMLER, R. H. New development in livestock feeding. Du Pont Mag. 42(5): 28-29. Sept./Oct. 1948. 309.8 D92
- 18883 SARKAR, B. C. R., and SEN, K. C. Study on the vitamin A activity of carotene in green fodder. Indian J. Vet. Sci. & Anim. Husb. 17: 139-144. Ref. June 1947. 41.8 In22
- 18884 SELLE, L. V. Test of balanced rations. Flour & Feed 49(8): 43. Jan. 1949. 298.8 F66
- 18885 SIERRA, J. DE LA. La encina en la riqueza ganadera cordobesa. B. Zootec. 4: 160-161. May 1, 1948. 41.9 S016
- 18886 SNOOK, L. C. New Zealand blue lupins: comments on their value as stock food. West. Austral. Dept. Agr. Leaflet 923, 2 p. 1948. 23 W52B
- 18887 STODDART, L. A. Prevention of stock poisoning on range. West. Live Stock 34(4): 19, 104, 106. Nov. 1948. 49 W523  
Chiefly on grazing.
- 18888 SVEDBACK, V. Current feeding problems. (In Swedish.) (Sum.) Lantmannen 32: 791. Nov. 27, 1948. 11 L234
- 18889 TALEGÓN HERAS, F. Factores que condicionan la digestibilidad de los alimentos. B. de Divulg. Ganad. [Valladolid] 5(18): 16-21. June 1948. 49.9 Sp12
- 18890 TOME, G. A. Conservación racional de forrajes. Bolsa de Com. Rosario. Rev. 36(882): 9-11. Oct. 15, 1948. 287 R71
- 18891 TORRENS PASTOR, A. Notas de alimentación animal. Balearic Isl. Diputación Prov. B. de Agr. 46: 7-8. July 1948. 15 B19
- 18892 VALLE, O. Wastefulness of haymaking. Farmer & Stock-Breeder 62: 2776. Nov. 30, 1948. 10 F228  
Protein losses with present method in Great Britain.
- 18893 VUILLAUME, R. Le méso-inositol, vitamine du groupe B. Rec. de Méd. Vét. 124: 433-438. Oct. 1948. 41.8 R24  
Role in animal nutrition.
- 18894 WALLIS, G. C. Vitamin D needs in farm animals. Amer. Feed & Grain Dealer 32(10): 8-9, 30-31. Ref. Nov. 1948. 298.8 C83
- 18895 WAPLINGER, A. Eicheeln und kastanien als futtermittel für kleintiere. Nach der Arbeit 21: 7. Oct. 12, 1948. 80 N11
- 18896 WARD, A. L. Cottonseed meal in feeds. Flour & Feed 49(8): 32. Jan. 1949. 298.8 F66
- 18897 WHITING, F., and LOOSLI, J. K. The placental and mammary transfer of tocopherols (vitamin E) in sheep, goats and swine. J. Nutr. 36: 721-726. Ref. Dec. 10, 1948. 389.8 J82
- 18898 ZANOTTI, M. Vitamins in animal nutrition. (In Italian.) Allevatore 4(39): 3. Sept. 26, 1948. 49 AL55
- 18899 ZIMA, J. J. Scientific feeding. Flour & Feed 49(8): 26. Jan. 1949. 298.8 F66
- 18900 ZORN. Viehhaltung und futterwirtschaft. Deut. Viehhandel 3(15): 5. Aug. 1948. 49 D482

## VETERINARY MEDICINE

- 18901 ASSAM. CIVIL VETERINARY DEPT. Annual report, 1945-46. Shillong, 1948. 29 p. 41.9 In222
- 18902 ATTINÀ, S. Parallelism of the veterinary and public health services. (In Italian.) Prog. Vet. 3: 256-257. Aug. 15/Sept. 1, 1948. 41.8 P942
- 18903 BERTHELOU, M., and TOURNUT, J. Interruption artificielle de la gestation. Rev. de Méd. Vét. [Toulouse] 99: 481-491. Nov. 1948. 41.8 R32
- 18904 BEZRUC, K. Trichinosis from the view of the official regulations. (In Czech.) Časopis Českoslov. Vet. 469-473. Aug. 25, 1948. 41.8 C27
- 18905 BHALERAO, G. D. Schistosomiasis in animals. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 111. 1948. 150.1 C766



- 18906 BOLTRAFFIO, C. Observations on the "jaluronidase" content of the seminal fluid of the dog and horse. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 11. June 1948. 41.8 Z7
- 18907 BRATANOFF, K. Les possibilités de stimuler la fonction de la glande lactifère par la voie des hormones. (Abs.) Zootec. e Vet. 3(6): 11-14. June 1948. 41.8 Z7
- 18908 BULLOCK, S. Hacia un control más adecuado para tuberculosis y enfermedad de Bang [Chile]. Agr. Austral 14: 7375-7376. Sept. 1948. 9.3 Ag842
- 18909 CARGNEL, A. Normal temperature, heart rate, and respiration rate in domestic animals, and their relation to the clinic. (In Italian.) Clin. Vet. 71: 325-335. Ref. Oct. 1948. 41.8 C61
- 18910 CARNES, W. Regional Animal Disease Research Lab. [U. S. Dept. of Agriculture, Bureau of Animal Industry], protector of southern livestock. Ala. Farmer 27(4): 10-11. Jan. 1949. 276.8 AL1
- 18911 CHMIELEWSKI, W. Chinotropine, anti-inflammation vaccine. (In Polish.) Med. Wet. 4: 792-793. Dec. 1948. 41.8 M463
- English summary.
- 18912 CIARROCCI, E. Reform in the veterinary service [in Italy]. (In Italian.) Prog. Vet. 3: 284-286. Sept. 15, 1948. 41.8 P942
- 18913 CLARKSON, M. R. Foot-and-mouth disease activities and policies. Amer. Vet. Med. Assoc. J. 113: 423-427. Nov. 1948. 41.8 Am3
- 18914 COMMONWEALTH BUREAU OF ANIMAL HEALTH. Index veterinarius 1947/8, v. 14. Weybridge, 1947. 368 p. 41.8 In23
- 18915 CONTE, H. S. V., SALVADOR, A. R. N., and FALCÃO, H. R. The action of glycerin as an adjuvant in anatoxin vaccination against tetanus. (In Portuguese.) Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab. 6: 307-321. Ref. 1947. 41.9 L68
- French, English, and German summaries.
- 18916 CONTE, H. S. V., FERRAZ, C. C., and FALCÃO, H. R. Study of some characteristics of the rabid virus L.C.P.V. in comparison with the Pasteur strain of the Pasteur Institute of Paris. (In Portuguese.) Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab. 6: 261-288. Ref. 1947. 41.9 L68
- French, English, and German summaries.
- 18917 CONTE, H. S. V., SALVADOR, A. R. N., and FALCÃO, H. R. Tetanus anatoxin mixed with devitalized microbian bodies. (In Portuguese.) Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab. 6: 289-306. Ref. 1947. 41.9 L68
- French, English, and German summaries.
- 18918 COURRIER, R. Sur un oestrogène artificiel nouveau. (Abs.) Zootec. e Vet. 3(6): 8. June 1948. 41.8 Z7
- 18919 CUBA. DIRECCIÓN DE GANADERÍA. La glosopeda, o fiebre aftosa, por V. Méndez Plasencia. La Habana, Servicio de Publicidad y Divulgación, 1947. 24 p. 41 C895
- 18920 DALLING, T. Tuberculin and tuberculin testing. (Abs.) Natl. Vet. Med. Assoc. Gt. Brit. & Ireland. Ann. Rpt. & Balance Sheet 1948: 13. 41.9 V64
- 18921 ENGELMO BENET, J. Tratamiento económico de las heridas por el azul de metileno. Lérida Ganad. 3: 195. Sept. 1948. 41.8 L56
- 18922 ESSEVELD, H. Leptospirosis in Java and Sumatra. Internat. Cong. Trop. Med. and Malaria. Abs. 4: 20-21. 1948. 150.1 C766
- In man and animals.
- 18923 EWER, H. "Club" practice in New Zealand. Vet. Rec. 60: 660-661. Dec. 11, 1948. 41.8 V641
- Veterinary club.
- 18924 FELDMAN, W. H. Veterinary medicine: guardian of human and animal health. In Iowa. State Col. of Agr. and Mechanic Arts. Ninetieth anniversary celebration... 1858-1948, p. 22-31. Ames, 1948. 276 lo9N1
- 18925 FELSENFELD, O., GONZÁLEZ, L. M., and YOUNG, V. M. Salmonellae in domestic animals in Puerto Rico. Internat. Cong. Trop. Med. and Malaria. Abs. 4: 113-114. 1948. 150.1 C766
- 18926 FLÜCKIGER, G. International organization of the struggle against epizootics. (In Italian.) Zooprofilassi 3: 145-152. June 1948. 41.8 Z72
- 18927 FLÜCKIGER, G. Les principes modernes de la prophylaxie de la fièvre aphteuse. Off. Internat. des Epizoot. B. 29: 66-81. Ref. Mar./Apr. 1948. 41.8 Of2
- English summary.
- 18928 GADOLA, A. Farmers! Protect yourselves against foot and mouth disease. (In Italian.) Allevamenti nel Mondo 28: 138. May/June 1948. 49 AL56
- 18929 GÄRTNER, R. Über körpereigene wirkstoffe de haussäugetiere. Züchtungskunde 20: 1-10. Apr. 1948. 49 Z8
- Includes minerals in milk.
- 18930 GOMEZ, A. K. The veterinarian and public health. Philippine Livestock Mag. 1: 5. Nov. 1947. 49 P53
- 18931 GORNES GÓMEZ, H. La rabia, su tratamiento y fracasos. Veterinaria 12: 443-449. July 1948. 41.8 V6426
- 18932 GUERREIRO, R. T. C. A new radiological table for small animals. (In Portuguese.) Rev. de Med. Vet. [Lisboa] 42: 265-274. July/Sept. 1947. 41.8 R3215
- English summary.
- 18933 HADDOW, J. R., and IDNANI, J. A. The vaccination of highly susceptible animals against rinderpest. Indian J. Vet. Sci. & Anim. Husb. 17: 1-10. Ref. Mar. 1947. 41.8 In22
- 18934 HRDLÍČKA, F. Trichinosis in the years after the war. (In Czech.) Časopis Českoslov. Vet. 3: 467-469. Aug. 25, 1948. 41.8 C27
- 18935 HUITEMA, H. The cleansing effect of running water (rain) in bringing anthrax germs in soil to the surface. (In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 55: 211-219. Sept. 1948. 41.8 V51
- English summary.
- 18936 HURT, L. M. Los Angeles County Livestock Department. Review covering recent field and laboratory work in animal disease control 1947-1948. Los Angeles Co. Livestock Dept. Ann. Rpt. 1947/1948, 24, 50 p. 49.9 L89
- 18937 IYER, K. P. R. Infectivity of the saliva of rabid herbivora. Indian Vet. J. 25: 58-61. Sept. 1948. 41.8 In2
- 18938 KIRKSEY, G. Foot and mouth disease. Cattleman 35(8): 81-82. Jan. 1949. 49 C29
- 18939 LALL, H. K. Geographical and seasonal incidence of surra in the Punjab. Indian J. Vet. Sci. & Anim. Husb. 17: 201-207. Sept. 1947. 41.8 In22
- 18940 LANOWSKI, M. The role of veterinary surgeons in the building up of the new rural social system. (In Polish.) Med. Wet. 4: 761-763. Dec. 1948. 41.8 M463
- 18941 LAZZERINI, O. Aspects and consequences of the present situation with regard to livestock health and sanitation [Italy]. (In Italian.) Risveglio Agr. 7: 321-323. Sept. 15/30, 1948. 16 R49
- 18942 LAZZERINI, O. Livestock protection and the need for a new organization. (In Italian.) Terra [Firenze] 59(40): 1. Oct. 3, 1948. 16 T274
- Veterinary services.
- 18943 LERCHE, M., and ROOTS, E. Vereinheitlichung serologischer untersuchungsmethoden für die Brucellose - diagnose durch anwendung eines standardisierten trockenantigens. Tierärztl. Umschau 3: 106-109. Ref. Apr. 1948. 41.8 T445
- 18944 LOCKE, R. F., and HELVIG, R. J. The veterinary public health significance of Q fever. Amer. Vet. Med. Assoc. J. 113: 454-457. Ref. Nov. 1948. 41.8 Am3
- 18945 LORA SUÁREZ DE URBINA, J. Algunos datos clínicos sobre la dosificación de la penicilina en clínica veterinaria. Veterinaria 12: 601-604. Sept. 1948. 41.8 V6429
- 18946 MCDOUGALL, E. I. Studies in the physiology and biochemistry of the ruminant. Cambridge U. Abs. Diss. 1944/1945: 11-12. 1948. 241.8 C14
- 18947 MACEDO, J. N. Foot and mouth disease. (In Portuguese.) Criação e Vet. 2: 118. May 1947. 49 C86
- 18948 MACEDO, J. N. How to protect the hoofs of animals. (In Portuguese.) Criação e Vet. 2: 169. Aug. 1947. 49 C86
- 18949 MEITES, J., and TURNER, C. W. Studies concerning the induction and maintenance of lactation. I. The mechanism controlling the initiation of lactation at parturition. Mo. Agr. Expt. Sta. Res. B. 415, 65 p. Ref. May 1948. 100 M693
- 18950 MEITES, J., and TURNER, C. W. Studies concerning the induction and maintenance of lactation. II. The normal maintenance and experimental inhibition and augmentation of lactation. Mo. Agr. Expt. Sta. Res. B. 416, 36 p. Ref. May 1948. 100 M693



- 18951 MENGES, R. W. Cyclic variations in prevalence of foot-and-mouth disease. *Amer. Vet. Med. Assoc. J.* 113: 432-447. Nov. 1948. 41.8 Am3
- 18952 MEYER, K. F. Preventive veterinary medicine. *Amer. Vet. Med. Assoc. J.* 113: 533-539. Dec. 1948. 41.8 Am3
- 18953 MIGUEL, M. Diversos factores que intervienen en la aparición de las epizootias. *Valencia Avic. 5(7): 14-15. (Concl.) Aug. 1948. 47.8 V23*
- 18954 MILLER, M. D. Sudangrass poisoning of livestock can be minimized by good management practices. *Calif. Wool Grower* 24(49): 5. Dec. 7, 1948. 45.8 C12
- 18955 MIRRI, A. The importance of the male in the transmission of brucellosis. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 60. June 1948. 41.8 Z7
- 18956 MOOSBRUGGER. Einige theoretische betrachtungen über die konzentration von maul- und klauenseuche virus in aluminiumhydroxydvakzine. *Tierärztl. Umschau* 3: 127-130. May 1948. 41.8 T445
- 18957 MULLER, K. Medicaments and remedies. IV. (In Czech.) *Časopis Českoslov. Vet.* 3: 668-674. Nov. 25, 1948. 41.8 C27
- 18958 MUNRO, D. A. Protective inoculation with dry pigeon-pox and sheep and goat-pox vaccine. *Indian J. Vet. Sci. & Anim. Husb.* 17: 193-200. Ref. Sept. 1947. 41.8 In22
- 18959 MUTEL. L'actinomycose chez les animaux domestiques. *Acclimatation* 75: 251, 257. Nov. 27-Dec. 4, 1948. 14 Ac2
- 18960 NÁDVORNIK, F. Veterinarians and the new sanitary laws. (In Czech.) *Časopis Českoslov. Vet.* 3: 464-465. Aug. 25, 1948. 41.8 C27
- 18961 NAIK, R. N. A preliminary report on the incidence of *Corynebacterium pyogenes* in animals. *Indian Vet. J.* 25: 62-63. Sept. 1948. 41.8 In2
- 18962 NĚMEČEK, V. A veterinary ambulance for large animals. (In Czech.) *Časopis Českoslov. Vet.* 3: 473-476. Aug. 25, 1948. 41.8 C27
- 18963 NEUMANN, A. Problemas sanitarios [Chile]. *Agr. Austral* 14: 7369-7374. Sept. 1948. 9.3 Ag842
- Livestock disease control.
- 18964 NIŽNÁNSKY, F. Report on the activities of the Governmental Institute for Veterinary Diagnosis in Bratislava for the year 1947. (In Czech.) *Časopis Českoslov. Vet.* 3: 476-477. Aug. 25, 1948. 41.8 C27
- 18965 NORTH DAKOTA. LIVESTOCK SANITARY BOARD. Annual report, 41-42, 1947-1948, 52 p. 49.9 N81
- Chiefly diseases reported and control measures.
- 18966 NYASALAND PROTECTORATE. VETERINARY DEPT. Annual report, 1947. Zomba, 1948. 3 p. 41.9 N98
- 18967 OLSON, C., JR. Veterinary medicine in Nebraska. *Amer. Vet. Med. Assoc. J.* 113: 428-431. Nov. 1948. 41.8 Am3
- 18968 PAARMANN, E. Freiwillige oder gesetzliche abortus Bang-bekämpfung? *Tierärztl. Umschau* 3: 37-38. Feb. 1948. 41.8 T445
- Germany.
- 18969 PALAU ABELLA, A. Vida profesional, vista desde su final. *Lérida Ganad.* 3: 190-191. Sept. 1948. 41.8 L56
- Spanish veterinary practice.
- 18970 PALMER, R. Le tonus de l'utérus et les ses sphincters lors de la fécondation et de la nidation. (Abs.) *Zootec. e Vet.* 3(6): 7. June 1948. 41.8 Z7
- 18971 PAOLI, P. DE. Sanitary veterinary regulations applied to reproductive diseases. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 82. June 1948. 41.8 Z7
- 18972 PETISCA, J. L. N. Tumors of domestic animals (statistical data). (In Portuguese.) *Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab.* 6: 361-372. 1947. 41.9 L68
- French, English, and German summaries.
- 18973 PICK, F. Dispositif pratique pour la culture des anguillules parasites. *Soc. de Path. Exot. B.* 41: 501. 1948. 448.9 So13
- 18974 PLATNER, W. S., KIBLER, H. H., and BRODY, S. Growth and development with special reference to domestic animals. LXIII. Electrocardiograms of mules, horses, cattle, sheep, swine and goats. *Mo. Agr. Expt. Sta. Res. B.* 419, 12 p. Ref. July 1948. 100 M693
- 18975 POLDING, J. B. Indian species of *Brucella*. *Indian J. Vet. Sci. & Anim. Husb.* 17: 157-163. Sept. 1947. 41.8 In22
- 18976 POTTER, V. R., PARDEE, A. B., and LYLE, G. G. The assay of animal tissues for respiratory enzymes. VIII. Conditions for oxalacetate oxidation in whole homogenates. *J. Biol. Chem.* 176: 1075-1084. Ref. Dec. 1948. 381 J824
- 18977 RAJAGOPALAN, V. R. B. C. G. vaccination, its value in the control of human and bovine tuberculosis. *Indian Vet. J.* 25: 53-57. Ref. Sept. 1948. 41.8 In2
- 18978 RAMIREZ, J. Como reconocer y tratar enfermedades veterinarias. *Honduras Agr.* 4(40/46): 21. Mar./Sept. 1948. 6 H753
- 18979 REYDELLET, M. La vaccination antibrucellique par la méthode Dubois. Que faut-il en penser? Conclusions de dix années de prophylaxie collective dans les Hautes-Alpes. *Rev. de Méd. Vét. [Toulouse]* 99: 491-501. Nov. 1948. 41.8 R32
- 18980 RIBEIRO, M. J. La vitamine E du sang des chevaux et des bovines et son importance dans la reproduction et dans la stérilité. (Abs.) *Zootec. e Vet.* 3(6): 59-60. June 1948. 41.8 Z7
- 18981 RISER, W. R. Development and management of a small animal practice. (Abs.) *Allied Vet.* 19(6): 7-9. Nov./Dec. 1948. 41.8 AL5
- 18982 ROSEBUSCH, C. Prevención de la fiebre aftosa, por medio de la vacuna intradérmica. *U. Nac. Mayor de San Marcos. Facul. de Med. Vet. Rev.* 3(1): 32-38. Apr./June 1948. 41.9 Un37
- 18983 ROSS, W. D. Stock losses from transit tetany is costly. *Tasmanian Farmer* 1948: 21-23. Oct. 1948. 23 T186
- 18984 ROUSSEL, B. La tuberculination. *Rev. Agr. de l'Afrique du Nord* 46: 533-534. Oct. 22, 1948. 80 R326
- From *La Voix de l'Élevage*.
- 18985 SALLEZ, A. La vacuina antiaftosa de elaboración nacional. *Campo [La Paz]* 2(18): 117-119. Oct. 1948. 9.1 C15
- 18986 SANDERSON, C. J. Veterinary science must play important part in increased animal production. *Land [Sydney]* 1929: 18, 21. Oct. 22, 1948. 23 L22
- 18987 SAVINO, E., and RENNELLA, E. Depósitos animales de leptospirosis humana. *Internatl. Cong. Trop. Med. and Malaria. Abs.* 4: 22-23. 1948. 150.1 C766
- 18988 SCHAEZT, F. Theoretische und praktische betrachtungen über die anwendung der östrogenen wirkstoffe in der tierheilkunde. *Tierärztl. Umschau* 3: 66-71. Ref. Mar. 1948. 41.8 T445
- 18989 SCHEIDY, S. F. New trends in chemotherapy. *M. S. C. Vet.* 9(1): 1-5, 26. Ref. Fall 1948. 41.8 M582
- 18990 SCHMIDT, S. Virus vaccines. *Amer. Vet. Med. Assoc. J.* 113: 582-588. Dec. 1948. 41.8 Am3
- 18991 SCHUC, O. Anti-foot-and-mouth-disease vaccine. (In Portuguese.) *Vida Rur. e Econ.* 10(1): 12. July 31, 1948. 9.2 V662
- 18992 SENZE, A. Calcium therapy in veterinary obstetrics. (In Polish.) *Med. Wet.* 4: 773-776. Dec. 1948. 41.8 M463
- English summary.
- 18993 SERRANO TOMÉ, V. La aerosporina. *Veterinaria* 12: 451-452. July 1948. 41.8 V6429
- Therapeutic uses.
- 18994 SERRANO TOMÉ, V. Las sustancias anti-bióticas. Notas prácticas para el uso de la penicilina en veterinaria. *Veterinaria* 12: 371-376. June 1948. 41.8 V6429
- 18995 SHOPE, R. E. An unfamiliar mechanism of disease transmission. *Amer. Phil. Soc. Proc.* 92: 289-293. Ref. Oct. 25, 1948. 500 P533
- Worms as intermediate hosts in blackhead of turkeys, salmon poisoning of dogs, swine influenza, etc.
- 18996 SIMMONET, H., and BRUNAUD, M. Remarques sur le métabolisme et le mobilité du spermatozoide; comparaison avec la fibrille musculaire. (Abs.) *Zootec. e Vet.* 3(6): 3. June 1948. 41.8 Z7
- 18997 SOLIS, J. A. Wanted: veterinarians. *Philippine Livestock Mag.* 2: 82-83, 105, 110. Feb./Mar. 1948. 49 P53
- 18998 STEFANSKI, W. Polish parasitology in combating invasive diseases of domesticated animals. (In Polish.) *Med. Wet.* 4: 764-767. Dec. 1948. 41.8 M463
- English summary.



18999 STEIN, B. H. A modern animal hospital. Amer. Vet. Med. Assoc. J. 113: 552-553. Dec. 1948. 41.8 Am3

19000 SWACZYNA, E. The virulence and the immunizing ability of the gonacrine containing swine erysipelas vaccine in laboratory animals. (In Czech.) Časopis Českoslov. Vet. 3: 659-668. Ref. Nov. 25, 1948. 41.8 C27

19001 TAYEB, M. A. F. Urinary system of the camel. Amer. Vet. Med. Assoc. J. 113: 568-572. Dec. 1948. 41.8 Am3

19002 THEURER. Tierarzt und tierzucht. Tierärztl. Umschau 3: 97-101. Apr. 1948. 41.8 T445

19003 THOM, M. A. X-ray therapy in small animals. North Amer. Vet. 29: 784-787. Dec. 1948. 41.8 N812

19004 TODD, F. A. Veterinary laboratories in the U. S. Zone of Germany. Amer. Vet. Med. Assoc. J. 113: 540-544. Dec. 1948. 41.8 Am3

19005 TRAWIŃSKI, A. Trichinosis. (In Czech.) Časopis Českoslov. Vet. 3: 466-467. Aug. 25, 1948. 41.8 C27

19006 TRENTIN, J. J., and TURNER, C. W. Oral effectiveness of the dimethyl ether of diethylstilbestrol and of various steroid hormones on the mammary glands of mice and rabbits. Mo. Agr. Expt. Sta. Res. B. 411, 33 p. Ref. Mar. 1948. 100 M693

19007 TRENTIN, J. J., and TURNER, C. W. The experimental development of the mammary gland with special reference to the interaction of the pituitary ovarian hormones. Mo. Agr. Expt. Sta. Res. B. 418, 48 p. Ref. May 1948. 100 M693

19008 ULLMANN. Ein beschälseucheausbruch in Hessen. Tierärztl. Umschau 3: 125-127. May 1948. 41.8 T445

19009 U. S. BUR. OF ANIMAL INDUSTRY. Condensed statement on measures to keep the United States free of foot-and-mouth disease together with control and eradication operations in Mexico. Washington? 1948. 8 p. 1.972 A2C75

19010 U. S. BUR. OF ANIMAL INDUSTRY. Enforcement of foot-and-mouth disease quarantine on the United States-Mexican border. Rev. Washington, 1948. 4 p. 1.972 A2En2

19011 U. S. BUR. OF ANIMAL INDUSTRY. U. S. Foot-and-Mouth Disease Research Laboratory. Washington? 1948. 10 p. 1.972 A2Un33

19012 VELAZQUEZ E., A. Analogías y diferencias de caracteres entre el virus de la estomatitis vesicular y el de la fiebre aftosa. Agr. y Ganad. 24(9): 15-16. Sept. 30, 1948. 8 Ag834

19013 VÉLIZ LIZÁRRAGA, M. O., and RAMÍREZ MILLER, A. Diario de las prácticas realizadas en las haciendas de la "Sociedad Ganadera de Junín." U. Nac. Mayor de San Marcos. Facul. de Med. Vet. Rev. 3(1): 50-63. Apr./June 1948. 41.9 Un37

19014 WALTON, E. Respiratory activity of spermatozoa in egg yolk and in its separate constituents. (Abs.) Zootec. e Vet. 3(6): 3-4. June 1948. 41.8 Z7

19015 WÄNNTORP, H. Impregnated wood. (In Swedish.) Lantmannen 32: 794-795. Nov. 27, 1948. 11 L234

Poisoning of livestock from impregnated wood.

19016 WOLFF, A. H. The veterinarian in public health service. M. S. C. Vet. 9(1): 6-8, 26. Fall 1948. 41.8 M582

19017 WORD, L. Fear of foot-mouth quieting down. West. Live Stock 34(4): 28, 97. Nov. 1948. 49 W523

19018 ZAVAGLI, V. Still on the subject of foot-and-mouth disease control. (In Italian.) Zooprofilassi 3: 153-154. June 1948. 41.8 Z72

#### MISCELLANEOUS

19019 BAIRD, J. The standard book of household pets. Garden City, Halcyon House, 1948. 302 p. 48 B16

Dogs, cats, rabbits, etc.

19020 BELGIUM. MINISTRE DES COLONIES. DIRECTION GENERALE DE L'AGRICULTURE ET DE L'ELEVAGE. Tupende kufuga wanyama. Notions élémentaires d'élevage à l'usage des écoles du Congo Belge, par M. J. Celis. Ed. 2. Andenne, Magermans, 1948. 240 p. 40 B415

In French and Kiswahili.

19021 BERTL, H. Die tierzucht auf der Herbstmesse [Austria]. Landwirtschaft 1948: 246-247. Sept. 18, 1948. 19 L235

19022 BONI, A. Livestock resources of the Tuscan-Emilian mountains. (In Italian.) Allevatore 4(36): 1. Sept. 5, 1948. 49 AL55

19023 CAROLIS, V. DE. Livestock shows at Cremona. (In Italian.) Gior. di Agr. 58: 277. Oct. 10, 1948. 16 It1G

19024 CEARÁ, BRAZIL. ESCOLA DE AGRONOMIA. DEPARTAMENTO DE ZOOTECNIA. Subsidios para o estudo dos usos e costumes pastoris do Nordeste (marcas de ferro a fogo usadas no Ceará) [Aids in the study of pastoral uses and customs of the Northeast (Brands used in Ceará)]. Fortaleza, Instituto do Ceará, 1947. 36 p. 43 C32

19025 CHAVARRIA, H. R. Dirección General de Ganadería. Suelo Tico 1: 39-44. Aug. 1948. 8 Su2

With notes by L. A. Villalobos A., and A. Jiménez Acosta.

Costa Rica.

19026 DAHLANDER, G. Reindeer care in Norrbotten. (In Swedish.) Skand. Kreatursförsäkringsbolaget. Månadsblad 26: 119-120. Nov. 1948. 49.9 Sk1

19027 DUERST, J. U. Rückblick über die tierzucht-literatur des auslandes während der kriegsjahre bis 1948. Züchtungskunde 20: 49-62. Ref. July 1948. 49 Z8

19028 GARCÍA CARRASCO, N. La Estación Pecuaria Regional de Galicia. B. de Divulg. Ganad. [Valladolid] 5 (18): 38-48. June 1948. 49.9 Sp12

19029 GARDE, F. A. The Bureau of Animal Industry and its service to the people. Philippine Livestock Mag. 1: 12-14, 33. Nov. 1947. 49 P53

19030 HALL, E. K. Animal husbandry in the eastern high-rainfall area. Farming So. Africa 23: 615-620, 624. Sept. 1948. 24 So842

In the Province of Natal.

19031 HUTCHINSON, J. When strains became breeds and the average annual meat consumption, by man, woman and child was over a hundredweight. Farmers Weekly [London] 29(26): 39. Dec. 24, 1948. 10 F2226

Farming development in Great Britain with particular reference to livestock.

19032 KNIEFLY, A. Zuchtvieh auf der alm. Salzburg. Bauer 3(38): 4-6. Sept. 16, 1948. 19 Sa3

19033 MESCHINI, C. Livestock raising is an art. (In Italian.) Gior. di Agr. 58: 320. Nov. 14, 1948. 16 It1G

19034 MINTCHEFF, P. Les pertes et les difficultés que l'on rencontre dans l'élevage des animaux domestiques en Bulgarie. (Abs.) Zootec. e Vet. 3(6): 28-29. June 1948. 41.8 Z7

19035 MOSER, L. Report on research studies with animals. Natl. Live Stock Prod. 27(4): 13. Jan. 1949. 280.38 N21

19036 ROMOLOTTI, A. The Livestock Experimental Institute for Sicily. (In Italian.) Humus 4(10): 19-21. Oct. 1948. 16 H88

19037 SANTNER. Nochmals zur frage der "freilandhaltung" der haustiere. Pflug 1: 150. Sept. 1948. 19 P48

Austria.

19038 SCHMIDT, J. Einige neuere arbeiten auf dem gebiete der konstitutions- und vererbungsforschung aus dem Institut für Tierzüchtlehre der Landwirtschaftlichen Hochschule Hohenheim. Züchtungskunde 20: 117-132. Aug. 1948. 49 Z8

19039 SEVILLA, N. S. The Sisiman abattoir and its significance to the country. Philippine Livestock Mag. 1: 24-25, 27. Nov. 1947. 49 P53

19040 SIRRI, A. Estimating the weight of livestock through measurements. (In Italian.) Allevamenti nel Mondo 28: 126-127. May/June 1948. 49 AL56

19041 VESEY-FITZGERALD, B. The problem of domestication. Nature Lover 5: 435-437. Oct. 1948. 410 N218

19042 WATSON, J. A. S. Progress in animal husbandry. Inst. Corn & Agr. Merchants. J. 1: 133-142. Autumn 1948. 10 In7

19043 ZORN. Alpwirtschaft als gesundheitsfaktor in der tierzucht. Allgäuer Bauernbl. 16: 217-218. Sept. 17, 1948. 18 AL53

#### CATTLE

##### Breeds and Breeding

19044 ABL. Durch reinzucht oder einkreuzung zur leistungssteigerung in der Höhengviehzucht? Tierzucht 2: 120-122. July/Aug. 1948. 49 T443



- 19045 ALFONSO, C. G., and OCHOTECO, P. Algunas observaciones clínicas sobre la esterilidad e inseminación artificial en las grandes hembras. *Veterinaria* 12: 595-599. Sept. 1948. 41.8 V6429  
Dairy cattle.
- 19046 ALUNNO, E. Contribution to the statistical study of the causes of non pathologic infertility of cattle of the Chianina breed. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 23. June 1948. 41.8 Z7
- 19047 AREY, J. A. Artificial breeding in North Carolina. *South. Planter* 109(12): 14, 15. Dec. 1948. 6 So89  
Dairy cattle.
- 19048 ASHTON, J. Whence the Hereford? Conflicting conjectures and surmises advanced by writers over a long period of years—exact origin may be lost in obscurity. *Amer. Hereford* 39(17): 124, 126, 128. Jan. 1, 1949. 43.8 Am32
- 19049 AUBRY, M. La race bovine Augeronne. *Encyclopéd. Vét. Périod.* 1948: 77-81. 1948. 41.8 En1
- 19050 BARDEN, J. Beef breeds come by the dozen. *West. Live Stock* 34(3): 33, 40, 43-44, 46. Oct. 1948. 49 W523
- 19051 BARTLETT, N. New world cows make good in high society. *Calif. Dairyman* 28(24): 21-22, 28. Jan. 1, 1949. 44.8 C12  
Australian Illawarra Shorthorns.
- 19052 BEDR EL DIN, A. Certain reproductive aspects of the buffaloes in Egypt. (Abs.) *Zootec. e Vet.* 3(6): 28. June 1948. 41.8 Z7
- 19053 BELLOMO, G. The estrogenic property of estromenin Merck in bovine frigidity. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 49-50. June 1948. 41.8 Z7
- 19054 BERGE, S. Genetics of dun, brown and brindle colour in cattle. (Abs.) *Zootec. e Vet.* 3(6): 8-9. June 1948. 41.8 Z7
- 19055 BLIN, H. Les qualités de la race jersiaise. *Monit. Agr.* 1(44): 6. Nov. 14, 1948. 14 M744
- 19056 BONADONNA, T. Critical considerations with regard to the Anglo-American and Italian techniques for the inoculation of spermatic material in cattle. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 70-71. June 1948. 41.8 Z7
- 19057 BONADONNA, T. Results of the experiment of transporting bovine sperm from the United States to Italy, made in March 1947. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 66-67. June 1948. 41.8 Z7
- 19058 BONADONNA, T. The transplanting of ova and hyperovulation in cows. (In Italian.) *Gior. di Agr.* 58: 326. Nov. 21, 1948. 16 It1G
- 19059 BONADONNA, T., and GHIDA, F. The valuation of the heredity capacity of dairy bulls, for the purpose of improvement in production. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 26. June 1948. 41.8 Z7
- 19060 BONE, H. Ayrshires without horns. *Farmer & Stock-Breeder* 62: 2899. Dec. 14, 1948. 10 F228  
Dairy cattle breeding.
- 19061 BOSTON, E. J. My ideal dairy cow. *Farmer & Stock-Breeder* 62: 2716-2717. Nov. 23, 1948. 10 F228
- 19062 BOVA, G. Raising of Simmenthal cattle in the province of Reggio Calabria. (In Italian.) *Risveglio Agr.* 7: 308-309. Sept. 15/30, 1948. 16 R49
- 19063 BRADBURY, R. H. Bovine sterility: case history. *North Amer. Vet.* 29: 773-777. Dec. 1948. 41.8 N812
- 19064 BRATANOFF, K. Observations sur l'utilisation des dilueurs spermatiques au jaune à oeuf dans l'insemination artificielle des vaches. (Abs.) *Zootec. e Vet.* 3(6): 68-69. June 1948. 41.8 Z7
- 19065 BRAY, C. I. Brahman in Louisiana. The story of Brahman cattle at L. S. U. and in the Baton Rouge area. *Gulf Coast Cattleman* 14(9): 5-7. Nov. 1948. 43.8 C63
- 19066 BROWNFIELD, A. D. More milk from beef cows—more profit. *West. Live Stock* 34(3): 101. Oct. 1948. 49 W523
- 19067 CAMPBELL, M. H. Operation sterility! The story of a new attack upon one of dairymen's greatest problems: bovine sterility. *New England Farm Fin. News* 3(12): 3. Dec. 1948. 284.28 N44
- 19068 CARETTA, A. Observations on the causes of differences in fecundity in the practice of artificial insemination. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 73. June 1948. 41.8 Z7  
In cattle.
- 19069 CARETTA, A., GIACONE, S., and VALERANI, L. Organization and functioning of the "bull syndicates" of Melegnano, Cremona. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 63-64. June 1948. 41.8 Z7
- 19070 CAROLIS, V. DE. A propos of the Holstein-Friesian and Brown Swiss breeds of cattle. (In Italian.) *Mondo del Latte* 1948(10): 25-26. Oct. 1948. 44.8 M74
- 19071 CATES, J. The Brahama is here to stay. *Ala. Farmer* 27(3): 7, 12, 14. Dec. 1948. 276.8 AL1
- 19072 CAVENDISH, R. A. E. Little known facts about Zebu cattle from India and the U. S. A. *Gulf Coast Cattleman* 14(6): 5-8, 10. Aug. 1948. 43.8 C63
- 19073 CHITTENDEN, D. W. Polled Herefords break another yearly record. *Gulf Coast Cattleman* 14(9): 26. Nov. 1948. 43.8 C63  
Registration in American Polled Hereford Association.
- 19074 CHITTENDEN, D. W. Top year for Polled Herefords with strong demand shown throughout Northwest. *West. Livestock Rptr.* 9(20): 56, 58. Jan. 5, 1949. 286.85 W523
- 19075 CONNOR, R. L. The dairyman's greatest opportunity for herd improvement. *Falls Cities Coop. Dairyman* 17(12): 3. Dec. 1948. 280.28 F19  
Dairy herd improvement associations.
- 19076 CORDIEZ, E., HENNAUX, L., and DIMITROPOULUS, R. L'influence de la crise de petit acclimatement consécutive à l'achat d'un taureau sur le pouvoir fécondant du sperme. (Abs.) *Zootec. e Vet.* 3(6): 29. June 1948. 41.8 Z7
- 19077 COUTTS, J. B. Hill farming. *Scotch Shorthorn Rec.* 1948(2): 27. Dec. 1948. 43.8 Sco3  
Hybridization of Scotch Shorthorn and Highland cattle in Scotland.
- 19078 CROSS, G. A. Lost—a five million dollar milk check! This is happening every year in one dairy county alone in America—Stanislaus in California. *West. Dairy J.* 5(2): 21, 60. Dec. 1, 1948. 44.8 W524  
Value of dairy herd improvement work.
- 19079 DAWSON, J. R., and KOPLAND, D. V. A breeding experiment with Holstein cattle at the Huntley, Mont., Field Station. *U. S. D. A. Tech. B.* 965, 44 p. Nov. 1948. 1 Ag84Te
- 19080 DELLEPIANE GALLI, A. D. Bovinos Welsh Black. *Campo y Suelo Argentino* 32(384): 8. Oct. 1948. 9 C15
- 19081 DELORME, P. A. La race bovine de Damas. Premières observations sur son adaption dans la Tell Constantinois. (Abs.) *Zootec. e Vet.* 3(6): 32-33. June 1948. 41.8 Z7
- 19082 DIMITROPOULUS, E., CORDIEZ, E., and HENNAUX, L. L'appréciation de la qualité du sperme de taureau. (Abs.) *Zootec. e Vet.* 3(6): 48. June 1948. 41.8 Z7
- 19083 DURKEE, R. Can Milking Shorthorns fill this area's need for greater milk supply. *Avoset Dairyman* 2(4): 2. Aug. 1948. 44.8 Av7
- 19084 EDWARDS, J. Aspects of artificial insemination development in England. (In German.) (Abs.) *Zootec. e Vet.* 3(6): 63. June 1948. 41.8 Z7  
Cattle.
- 19085 ERIKSON, E. Genetical investigations of reproductive disturbances (sterility) in cattle. (Abs.) *Zootec. e Vet.* 3(6): 6. June 1948. 41.8 Z7
- 19086 ESKEDAL, W. Bull testing stations in Denmark. (Abs.) *Zootec. e Vet.* 3(6): 66. June 1948. 41.8 Z7
- 19087 EVERZ, K. E. Observations on cattle breeding in Norrbotten. (In Swedish.) *Skand. Kreatursförsäkringsbolaget. Månadsblad* 26: 117-118. Nov. 1948. 49.9 Sk1
- 19088 FERNÁNDEZ, J. I. El Servicio de Extensión Agrícola establece centros de monta en San Sebastian. *Puerto Rico. Agr. Col. Ext. Carta Mens.* 5(8): 1. Nov. 1948. 275.29 P96Ca  
Cattle.
- 19089 FRANCIOSA, L. The Agerola breed [of cattle]. (In Italian.) *Humus* 4(10): 24-25. Oct. 1948. 16 H88
- 19090 FRITZSCHE, K., and MANN, O. Gedanken zur organisation der sterilitätsbekämpfung des rindes. *Tierärztl. Umschau* 3: 33-36. Feb. 1948. 41.8 T445
- 19091 FROST, H. J. Let's udder them to death. *Ayrshire Digest* 34: 874, 1090. Dec. 1948. 43.8 Ay7  
Ayrshire breed improvement.
- 19092 GADOLA, A. Pathological manifestations injurious to the genital organs of cattle and artificial insemination in East Africa. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 74. June 1948. 41.8 Z7



- 19093 GAIER. Die künstliche befruchtung der rinder in Österreich. Österr. Milch- u. Fettwirtschaft 3: 198-200. Sept. 1948. 44.8 Os72
- 19094 GIEZENDANNER, C. J., JR. Brahman's continue to increase. Cattleman 35(8): 118-119. Jan. 1949. 49 C29
- 19095 GIULIANI, R. Means of preventing and controlling sterility in cattle. (In Italian.) Riv. di Zootec. 21: 261-265. Aug./Sept. 1948. 49 R52
- 19096 GOODELL, C. J. Only the best for the South; Shorthorns are potent in those characteristics needed by many of the cattle of this section. Shorthorn World 33 (17): 11, 20-21. Nov. 25, 1948. 43.8 Sh8
- 19097 GYLLING HOLM, G. The organization and development of artificial insemination in Danish cattle breeding. (Abs.) Zootec. e Vet. 3(6): 74-75. June 1948. 41.8 Z7
- 19098 HARTUNG, A. M. They tried to produce a new kind of cow. West. Live Stock 34(3): 38, 118-119. Oct. 1948. 49 W523
- Crossing buffaloes with domestic beef cattle.
- 19099 HAWKINS, G. E. Crossbreeding of cattle on the march. Agrarian 8(1): 9. Nov. 1948. 276.8 Ag8
- 19100 HEIDER, W. Erwiderung eines praktischen tierarztes zu "Gedanken zur organisation der sterilitätsbekämpfung des rindes" von K. Fritzsche und O. Mann. Tierärztl. Umschau 3: 111-112. Apr. 1948. 41.8 T445
- 19101 HETLER, W. P. History of the United Stock Breeders' Association. Milking Shorthorn J. 29(12): 3-4. Dec. 1948. 43.8 M59
- As told to E. I. Olson.
- 19102 HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA. Holstein-Friesian herd-book, containing a record of all Holstein-Friesian cattle approved and admitted for entry since the close of the last volume. v. 103. Brattleboro, 1948. 1461 p. 43.9 H74
- 19103 JEPSEN, N. B. Rationalization of cattle raising. (In Danish.) Dansk Landbr. 67: 477-478. Dec. 9, 1948. 280.28 V91
- 19104 JONES, R. C. Youthful memories of early A. R. Ayrshires. Ayrshire Digest 34: 882. Dec. 1948. 43.8 Ay7
- 19105 JOUBERT, M. Sélection de taureaux pour la production. Canad. Ayrshire Rev. 29: 281-282. Dec. 1948. 43.8 Ay72
- 19106 JUNGEMANN, L. Viehhandel, züchter und züchter-vereinigungen. Deut. Viehhandel 3(19): 4. Oct. 15, 1948. 49 D482
- Chiefly on breeding.
- 19107 KNIELY, A. Mehr beachtung den weiblichen linien! Pflug 1: 164. Oct. 1948. 19 P48
- Cattle.
- 19108 KNIELY, A. Der typ in der rinderzucht. Pflug 1: 143-144. Sept. 1948. 19 P48
- 19109 KÖPPE. Freiheit der züchtung. Neue Mitt. f. die Landw. 3: 332. Oct. 15, 1948. 18 N39
- Cattle.
- 19110 KORPRICH, H. Kritik und bewertung der fruchtbarkeit und lebenskraft zum zwecke der zuchtwahl in der praktischen rinderzucht. Züchtungskunde 20: 75-91. July 1948. 49 Z8
- 19111 KÖRPRICH, H. Voraussetzungen beim einsatz der mechanischen samenübertragung als hilfsmittel in der praktischen rinderzucht. (In English.) (Abs.) Zootec. e Vet. 3(6): 72. June 1948. 41.8 Z7
- 19112 LAARHOVEN, V. How is the artificial insemination situation? (In Dutch.) Boer en Tuinder 2(98): 6. Nov. 20, 1948. 12 3632
- Cattle.
- 19113 LAING, J. A. Studies on the physiology of the spermatozoa of the bull, with special reference to bovine infertility. Cambridge U. Abs. Diss. 1943/1944: 11-12. 1948. 241.8 C14
- 19114 LAMB, L. W. Bull indexes—what do they mean? Amer. Dairy Cattle Club. Herd Builder 8(10): 5-8. Nov. 1948. 43.9 Am323H
- 19115 LAMB, L. W. Proved sires—what are they? Amer. Dairy Cattle Club. Herd Builder 8(9): 5-12. Oct. 1948. 43.9 Am323H
- Genetics.
- 19116 LANGLET, J. Betrachtungen zur ostfriesischen angeldsschau 1948. Tierzucht 2: 98-109. July/Aug. 1948. 49 T443
- Chiefly on cattle breeding.
- 19117 LAWRY, H. B. Specifications for a herd sire. Canad. Jersey Breeder 3(9): 8-9, 41, 42-44. Aug. 1948. 43.8 C165
- 19118 LILES, J. L. Artificial insemination and the district's dairy industry. Fed. Reserve Bank Atlanta. Monthly Rev. 33: 117-122. Nov. 30, 1948. 284.8 F31A
- 19119 LIMBIRD, F. Artificial breeding future in North Logan County [Arkansas]. Avoset Dairyman 2(8): 4. Dec. 1948. 44.8 Av7
- 19120 LOBDELL, H. S. Polls more than holding their own. West. Live Stock 34(4): 27. Nov. 1948. 49 W523
- Polled Hereford cattle.
- 19121 LÜTZENBERG. Die bullennachzuchtprämierungen des Landesverbandes Thüringer Rinderzüchter in der Rhön. Tierzucht 2: 113-116. July/Aug. 1948. 49 T443
- 19122 MCCULLOUGH, J. W. Brown Swiss. O. A. C. Rev. 61: 125-127. Dec. 1948. 276.8 On8
- 19123 MCKINNEY, J. Starting an artificial calf—a trip to the barn. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 63(11): 125. Nov. 1948. 6 P945K
- 19124 MAJOR, R. L. The nature and use of close breeding. Guernsey Breeders' J. (n. s.) 2(3): 41-43. Autumn 1948. 43.8 G932
- 19125 MANARESI, C. Methodology of artificial insemination of cattle. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 68. June 1948. 41.8 Z7
- 19126 MANN, D. Breeding is the key to dairy success. Kans. Farmer 85(24): 5, 18. Dec. 18, 1948. 6 K13
- 19127 MATHEW, K. C. Fertility and cattle breeding. Bangalore Dairy Cattle Soc. Monthly B. 7: 76-78. Sept. 1948. 43.9 B22
- 19128 MEAD, S. W., REGAN, W. M., and HART, G. H. The sexual behavior of the male bovine in artificial insemination. (Abs.) Zootec. e Vet. 3(6): 71. June 1948. 41.8 Z7
- 19129 MEGGINSON, F. Handling bulls. Jamaica. Dept. Agr. Ext. C. 9, 8 p. Oct. 1947. 275.249 J22
- 19130 MERCIER, E. L'insemination artificielle des bovins s'implanterà-t-elle dans Québec. Québec Lait. 7(10): 30-32. Oct. 1948. 44.8 Q3
- 19131 MILLER, G. C. Brahman cattle catch on. Capper's Farmer 59(11): 50, 83. Nov. 1948. 6 M693
- 19132 MILLER, W. Proven plus herd sires, the key to herd improvement. West. Dairy J. 5(2): 23. Dec. 1, 1948. 44.8 W524
- 19133 MINTCHEFF, P. On sterility in cattle. (In French.) (Abs.) Zootec. e Vet. 3(6): 61-62. June 1948. 41.8 Z7
- 19134 MULLER, W. The Brown Swiss around the world: breeding in Vorarlberg. (In Italian.) Allevatore 4(39): 5. Sept. 26, 1948. 49 AL55
- 19135 NARAYANA RAO, P. L. Brahmini bull—its past, present and future. Indian Vet. J. 25: 66-68. Sept. 1948. 41.8 In2
- 19136 NICHOLSON, R. M. Artificial insemination in dairy herds; successful South African experiments. So. African Dairyman 10: 379, 381-382. Nov. 1948. 44.8 So822
- 19137 ODLUM, G. M. Breeding problems made easy in 20 questions. Dairy Farmer [Ipswich] 21(12): 10-11. Dec. 1948. 44.8 D1414
- 19138 OLSSON, B. Selection of bulls for insemination associations. (In Swedish.) Ladugården 1948: 225-228. Oct. 1948. 44.8 L12
- 19139 OLYSCHLAGER, P. Die künstliche besamung des rindes als arbeitsgebiet der ambulatorischen und geburtshilflichen veterinar-klinik Giessen. Tierärztl. Umschau 3: 76-78. Ref. Mar. 1948. 41.8 T445
- 19140 PAREDIS, E. Vitamin C and sterility in cattle. (Abs.) Zootec. e Vet. 3(6): 50-51. June 1948. 41.8 Z7
- 19141 PARISI, O. Bulls for breeding and beef in Emilia. (In Italian.) Allevatore 4(36): 1. Sept. 5, 1948. 49 AL55
- 19142 PARR, C. H., and SEN, S. Effect of four times milking and handling on the yield of milk in cows of the Tharparkar breed. Indian J. Vet. Sci. & Anim. Husband. 17: 75-84. June 1947. 41.8 In22
- 19143 PETERS, W. H. Bright future for beef breeding in mixed farming areas. It is easier to increase or start a purebred herd by purchase of females than to start a grade herd. Shorthorn World 33(17): 5-6. Nov. 25, 1948. 43.8 Sh8



- 19144 PORTERFIELD, R. A. Artificial breeding in Maryland. *South. Planter* 109(12): 20, 21. Dec. 1948. 6 So89  
Dairy cattle.
- 19145 RICHARDS, F. Angus excel in producing superior beef carcasses. *Tex. Livestock J.* 7(11): 13-14. Nov. 15, 1948. 49 T29
- 19146 RICHARDS, F. More Angus breeders registered in 1948 with 1,758 new members added to national roster with great expansion shown in Northwest. *West. Livestock Rptr.* 9(20): 46. Jan. 5, 1949. 286.85 W523
- 19147 ROWSON, L. E. A new way of breeding from the best cows; transplantation of ova in experimental stage but has big future. *Dairy Farmer [Ipswich]* 21(12): 16. Dec. 1948. 44.8 D1414
- 19148 SALISBURY, G. W. Some aspects of reproductive efficiency in cattle. *North Amer. Vet.* 30(1): 20-24. Ref. Jan. 1949. 41.8 N812
- 19149 SAMSON, R. Le test de progéniture chez les bovins laitiers. *Rev. d'Oka* 12: 190-199. Sept./Oct. 1948. 7 Ok1
- 19150 SANDRI, G. For a standard of the Black Spotted race [of cattle]. (In Italian.) *Allevatore* 4(35): 5. Aug. 29, 1948. 49 AL55
- 19151 SCHMIDT, J. Schwarzbunte Niederungskühe und Jersey-bullen. Kreuzungsversuche und ihre auswertung. *Züchtungskunde* 20: 29-39. Apr. 1948. 49 Z8
- 19152 SCHULZ, W. G. The bull calf and some practical, first-hand hints on raising him. *West. Dairy J.* 5(2): 20, 46-49. Dec. 1, 1948. 44.8 W524
- 19153 SCHUTZWOHL, F. Know what the pedigree means when you buy a bull! *West. Dairy J.* 5(2): 19, 44-45. Dec. 1, 1948. 44.8 W524
- 19154 SOBEK, V. Examination of the bull's sperm for artificial insemination. (In Czech.) *Casopis Českoslov. Vet.* 3: 652-659. Ref. Nov. 25, 1948. 41.8 C27
- 19155 STAGG, A. The Holstein-Friesian breed in Canada. (In Italian.) *Allevatore* 4(34): 3. Aug. 22, 1948. 49 AL55
- 19156 STINNETT, L. H. Artificial breeding of dairy cattle in Oklahoma. *Okla. Agr. Col. Ext. C.* 491, 14 p. 1948? 275.29 Ok41C
- 19157 STONAKER, H. H., and WHEELER, S. S. Explore possibilities of hybrid cattle. *West. Live Stock* 34(3): 54, 61. Oct. 1948. 49 W523  
Beef cattle.
- 19158 SZUMOWSKI, P. Les facteurs controlant la stabilité des suspensions des spermatozoïdes dans le sperme de taureau. (Abs.) *Zootec. e Vet.* 3(6): 69-70. June 1948. 41.8 Z7
- 19159 TASSINARI, R. Artificial insemination is a "medical defense" important in the cure of bovine sterility. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 49. June 1948. 41.8 Z7
- 19160 TERRAZAS M., I. Inseminación artificial en bovinos. *Campo [La Paz]* 2(15): 33-36. July 1948. 9.1 C15
- 19161 USUELLI, F. The lack of the fecundity vitamin in cattle as secondary hypovitaminosis. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 31-32. June 1948. 41.8 Z7
- 19162 VALERANI, L., and BACCHETTA, A. Observations on the sex of calves born after artificial and natural insemination. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 30. June 1948. 41.8 Z7
- 19163 VALERANI, L. Research on the evaluation of the fertility of bovine sperm through the control of its viability. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 70. June 1948. 41.8 Z7
- 19164 VEIT, F. Besserer rinderbestand durch bessere bullenhaltung. *Wurttemb. Wchnbl. f. Landw.* 115: 338. Nov. 13, 1948. 18 W96
- 19165 VILLEGAS, V. Reproductive phenomena in water buffaloes. (Abs.) *Zootec. e Vet.* 3(6): 24-25. June 1948. 41.8 Z7
- 19166 VOLANTI, U. How to select a dairy bull. (In Italian.) *Agr. Bresciana* 1(37): 1. Sept. 15, 1948. 16 Ag89
- 19167 WALT, G. P. v. d. With which cattle breed should one farm? (In Afrikaans.) *Landbouweekblad* 30(1530): 46-48, 50. Nov. 10, 1948. 24 L232
- 19168 WILLE, R. Ueber die paratypen des rindes und die typendeologie der rinderzucht. *Tierärztl. Umschau* 3: 101-104. Apr. 1948. 41.8 T445
- 19169 WINNIGSTEDT, R. Unsere gegenwärtige und zukünftige arbeit in der deutschen Niederungsviehzucht. *Züchtungskunde* 20: 133-134. Aug. 1948. 49 Z8
- 19170 WINNIGSTEDT, R. Werte und scheinwerte züchterischer veranstaltungen. *Deut. Viehhandel* 3(17): 1. Sept. 1948. 49 D482  
Cattle.
- 19171 ZANY, J. N. B. The Brown Swiss breed. (In Portuguese.) *Criação e Vet.* 2: 148. July 1947. 49 C86
- Feeds and Feeding
- 19172 AXELSSON, J. Neutralizing of AIV-feed. (In Swedish.) *Lantmannen* 32: 809-810. Dec. 4, 1948. 11 L234  
For cattle.
- 19173 BATEMAN, G. Q. High milk production dependent upon adequate feed supply. *Farm & Home Sci. [Utah Sta.]* 9(4): 3-4. Dec. 1948. 100 Ut1F
- 19174 BRADT, C. G. Growing good calves with less milk; suggestions given. *East. Milk Prod.* 24(12): 7, 14-15. Dec. 1948. 280.28 Sh3
- 19175 BURKE, J. D. Concentrate mixtures for dairy cows. *N. Y. Agr. Col. Cornell Feed Serv.* 21: 8-10. Nov. 1948. 275.29 N48Cf
- 19176 CARLSSON, C. E. Milk rations for calves. (In Swedish.) (Sum.) *Lantmannen* 32: 791. Nov. 27, 1948. 11 L234
- 19177 CHATTERJEE, I., and SARKAR, S. N. The value of Boro rice straw as a cattle feed. *Indian J. Vet. Sci. & Anim. Husb.* 17: 89-93. June 1947. 41.8 In22
- 19178 CLARKE, P. F. Roughage for dairy cattle. (In Afrikaans.) *So. African Dairyman* 10: 385. Nov. 1948. 44.8 So822
- 19179 CRAM, B. L'engraissement des bovins. *Unité Paysanne* 3(155): 2. Oct. 23, 1948. 14 Un3
- 19180 CRAM, B. L'engraissement des bovins à l'étable. *Unité Paysanne* 3(157): 2. Nov. 6, 1948. 14 Un3
- 19181 CUNHA, T. J., and GLASSCOCK, R. S. Lack of minerals costing cattlemen hard-earned dollars in poor gains. *Fla. Cattleman* 13(3): 24-26. Dec. 1948. 43.8 F66  
Beef cattle.
- 19182 DAVIS, G. K. Copper deficiency in relation to calf development. *Victory Farm Forum* 33: 4-5. Dec. 1948. 281.8 F226
- 19183 DELAFORGE, O. L'alimentation des vaches laitières en hiver. *Monit. Agr.* 1(46): 6. Nov. 28, 1948. 14 M744
- 19184 DEWAR, J. K. Feeder-cattle practice. *North Amer. Vet.* 29: 776-779; 30: 17-18. Dec. 1948-Jan. 1949. 41.8 N812
- 19185 GADOLA, A. The influence of deficient feeding on the reproduction of cattle in East Africa. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 52-53. June 1948. 41.8 Z7
- 19186 GAY, C. W. The beef steer occupies an important place in efficient utilization and marketing of farm crops. *Amer. Hereford J.* 39(17): 70, 72-73. Jan. 1, 1949. 43.8 Am32
- 19187 GROOT, H. DE. When [cattle] go into the barn: to feed carefully is to feed to advantage. (In Dutch.) *Boer en Tuinder* 2(98): 3. Nov. 20, 1948. 12 B632
- 19188 HELMAN, M. B. Empleo del maíz en el engorde de novillos. *Campo y Suelo Argentino* 32(384): 22-27. Oct. 1948. 9 C15
- 19189 HOPF. Mehr naturgemässe ernährung unseres rindviehs! *Land, Wald u. Garten* 2: 355. Dec. 1947. 18 L22
- 19190 JARL, F. Feeding and digestibility experiments with cattle. (In Swedish.) (Sum.) *Lantmannen* 32: 790. Nov. 27, 1948. 11 L234
- 19191 JONES, J. H., TURNER, W. F., and WILLEY, N. B. Adding 200 pounds to Gulf Coast heifers. *Gulf Coast Cattleman* 14(7): 21-22. Sept. 1948. 43.8 C63  
Pasture feeding.
- 19192 JONES, R. C. Feed for more fall and winter milk. *New England Homestead* 121(21): 14. Nov. 13, 1948. 6 N442
- 19193 JUCKER, H. La vitamine D et son importance dans l'alimentation des vaches laitières. *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 4: 65-67. Sept. 1948. 17 J82A
- 19194 KEHAR, N. D., and CHANDA, R. Investigations on famine rations—entrails as a protein substitute for cattle. *Indian J. Vet. Sci. & Anim. Husb.* 17: 189-192. Sept. 1947. 41.8 In22



- 19195 KIRK, W. G., HODGES, E. M., and FULFORD, H. J. Citrus pellets produce \$28.93 profit in Range Cattle [Experiment] Station testing. Fla. Cattleman 13 (3): 20. Dec. 1948. 43.8 F66
- 19196 KIRSCH, W. Leistung und fütterung im milchviehstall. Süddeut. Molkerei-Ztg. 69: 348. Oct. 7, 1948. 44.8 Su2
- 19197 KOLLATH, W. Über den umfang der vollmilcheinsparung bei der kälberaufzucht und die ergänzung durch auxonreiche beikost. Beitr. Agrarwiss. 1: 74-80. n. d. 18 B392
- 19198 KVARNBÄCK, S. Winter feeding. (In Swedish.) Ladugården 1948: 203-206. Oct. 1948. 44.8 L12 Of cattle.
- 19199 LACEY, J. J. Beef cattle use corn roughages efficiently. Equity Co-op. Livestock News 13(12): 7. Dec. 1948. 280.28 E5
- 19200 LOOSLI, J. K. Do dairy cattle need extra vitamin E? N. Y. Agr. Col. Cornell Feed Serv. 21: 5-6. Nov. 1948. 275.29 N48Cf
- 19201 LOOSLI, J. K., and TURK, K. L. Does "synerjol" feeding influence milk production? N. Y. Agr. Col. Cornell Feed Serv. 21: 2. Nov. 1948. 275.29 N48Cf
- 19202 MCKELVIE, S. R. Lesson in cattle feeding. Nebr. Farmer 91: 30. Jan. 1, 1949. 6 N27
- 19203 MEHNER, K. Körpergewicht und futtermittelverwertung. Neue Mitt. f. die Landw. 3: 394-395, 433-434. Nov. 15, 25, 1948. 18 N39 Dairy cattle.
- 19204 O'CONNELL, J. J. Grass makes beef. Dakota Farmer 68(21): 6. Nov. 6, 1948. 6 D14
- 19205 PHILLIPS, P. H., KASTELIC, J., and HART, E. B. The effect of mixed tocopherols on milk and butterfat production of the dairy cow. J. Nutr. 36: 695-701. Dec. 10, 1948. 389.8 J82
- 19206 RAMAKRISHNAN, M. Feeding tamarind seeds to cattle. Bangalore Dairy Cattle Soc. Monthly B. 7: 79. Sept. 1948. 43.9 B22
- 19207 REID, J. T. Special dry cow and fitting rations. N. Y. Agr. Col. Cornell Feed Serv. 21: 4-5. Nov. 1948. 275.29 N48Cf
- 19208 REID, J. T. Thyroprotein for the dairy cow. N. Y. Agr. Col. Cornell Feed Serv. 21: 2-3. Nov. 1948. 275.29 N48Cf
- 19209 RUSCHMANN, G. Beeinflussung der milch durch verwendung von gärfutter. Molkerei-Ztg. 1: 151-153. Nov. 8, 1947. 44.8 M735
- 19210 SCHATZ, S. J. The principles of nutrition. Calif. Dairyman 28(24): 12-14. (Cont.) Jan. 1, 1949. 44.8 C12
- 19211 SCHRUM, J. M., and RIGGS, J. K. Protein supplements containing urea in steer fattening rations. Tex. Agr. Expt. Sta. Prog. Rpt. 1136, 2 p. Nov. 12, 1948. 100 T31P Also in Cattleman 35(8): 154. Jan. 1949. 49 C29
- 19212 STERN, A. Übergang von der sommer- zur winterfütterung leichter mit zwischenfrüchten und herbstweiden! Pflug 1: 144. Sept. 1948. 19 P48 Dairy cattle.
- 19213 TURK, K. L. Importance of roughage in dairy cattle feeding. Natl. Hay Press 32(3): 9, 11-12. Dec. 16, 1948. 286.81 N21
- 19214 TURK, K. L. Some current research on dairy cattle nutrition. N. Y. Agr. Col. Cornell Feed Serv. 21: 6-7. Nov. 1948. 275.29 N48Cf
- 19215 WALLIS, G. C. Meeting vitamin A and D needs. Feed Bag 24(12): 21-22. Dec. 1948. 389.78 F32 In calf nutrition.
- 19216 WINNIGSTEDT, R. Bessere futternutzung: senkung der erzeugungskosten. Deut. Viehhandel 3(22): 5. Nov. 30, 1948. 49 D482
- 19217 ZORN, W. Die fütterung unserer milchkühe; wissenschaftliche erfahrungstatsachen und erkenntnisse. Deut. Viehhandel 3(22): 5. Nov. 30, 1948. 49 D482
- Veterinary Medicine
- 19218 AHMED, I. Intercoastal abscess in bovines. Indian Vet. J. 25: 80. Sept. 1948. 41.8 In2
- 19219 ALBIEN. Theorie, praxis und erfolge der "zubullerfrühimpfung" gegen den abortus Bang des rindes. Tireärztl. Umschau 3: 38-44. Feb. 1948. 41.8 T445
- 19220 ASK, N. E. Dehorning of calves. (In Swedish.) Ladugården 1948: 215-216. Oct. 1948. 44.8 L12
- 19221 DAGUENA CORELLA, L. Tripanosomiasis del ganado e insectos vectores en Evinayong. Spain. Dir. de Agr. de los Ter. Españ. del Golfo de Guinea. P. 13: 31-93. 1948. 24 Sp2
- 19222 BHUYAN, F. C. Hypertonic saline in umbilical hernia in calves. Indian Vet. J. 25: 77-78. Sept. 1948. 41.8 In2
- 19223 BIGNARDI, C. On the behavior of the vessels in the bovine oviduct. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 15. June 1948. 41.8 Z7
- 19224 BISCHI, D. A curious case of delayed nicotine poisoning [in cattle]. (In Italian.) Prog. Vet. 3: 276-277. Aug. 15/Sept. 1, 1948. 41.8 P942
- 19225 BISHOP, W. H. Calf scours losses a drain on production. Tasmanian Farmer 1948: 14. Oct. 1948. 23 T186
- 19226 BLANCO, P. G. Diagnostico de la tuberculosis bovina por la prueba ocular de la tuberculina. Campo y Suelo Argentino 32(384): 7. Oct. 1948. 9 C15
- 19227 BORRELLI, G. Notes on bovine gynecology, early clinical diagnosis of pregnancy and examination of external genitalia. (In Italian.) Prog. Vet. 3: 274-276. Aug. 15/Sept. 1, 1948. 41.8 P942
- 19228 BOYD, C. L. A report on "XX disease" in Texas. Amer. Vet. Med. Assoc. J. 113: 463-464. Nov. 1948. 41.8 Am3
- 19229 BRAWNER, W. R. Retained placentas cause loss. Fla. Cattleman 12(12): 20-21. Sept. 1948. 43.8 F66
- 19230 BRESSOU, C. Importance de certains facteurs pathologiques dans la diminution de la production du lait. Acad. Natl. de Méd. B. 131: 621-623. Nov. 4/18, 1947. 448.9 P21
- 19231 BRIGATTI, C. Enquiries into the morphology of the corpus luteum as possible element in the early diagnosis of pregnancy in cattle. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 59. June 1948. 41.8 Z7
- 19232 BRIGATTI, C. Investigation of the morphology of the corpus luteum as a possible element in the early diagnosis of pregnancy in cattle. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 21. June 1948. 41.8 Z7
- 19233 BRIGATTI, C. Inspection of the bovine ovary in some phases of its activity as an element in diagnosis [of pregnancy]. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 58-59. June 1948. 41.8 Z7
- 19234 BRIGATTI, C. Some preliminary observations on the bacterial flora of the bovine uterus and vagina. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 44. June 1948. 41.8 Z7
- 19235 BRODY, S., and others. Growth and development with special reference to domestic animals. LXIII. Heat production and cardiorespiratory activities during gestation and lactation in Jersey Cattle. Mo. Agr. Expt. Sta. Res. B. 412, 22 p. Mar. 1948. 100 M693 D. M. Worstell, A. C. Ragsdale, and H. H. Kibler, joint authors.
- 19236 BUDDLE, M. B. Immunity in cattle vaccinated with Brucella abortus strain 19 by the subcutaneous and intracaudal routes during calfood. Austral. Vet. J. 24: 262-271. Oct. 1948. 41.8 Au72
- 19237 BUENO, P., and MONICI, N. Vascular lesions occurring in the placenta, in cases of bovine brucellosis. (In Portuguese.) Soc. Paul. de Med. Vet. B. 8: 55-60. June 1948. 41.9 So13
- 19238 CAPORALE, G. On the etiology of aphthous myocarditis. (In Italian.) Zooprofilassi 3: 173-184. Ref. July 1948. 41.8 Z72 English summary.
- Secondary infections with foot and mouth disease in cattle.
- 19239 CEMBROWICZ, H. J. Studies on the fallopian tubes in the bovine with special reference to the problem of sterility. Cambridge U. Abs. Diss. 1945/1946: 17-19. 1948. 241.8 C14
- 19240 CHAVES HERNÁNDEZ, A. El meteorismo agudo o timpanitis en el ganado bovino. Ceres [Valladolid] 12(148): 29-30. Oct. 1, 1948. 15 C33
- 19241 CORRIAS, A. New synthetic estrogens for the treatment of anestrus, pyometra and chronic endometritis in cattle. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 47-48. June 1948. 41.8 Z7
- 19242 DASQUE. Deux cas d'hystérotomie chez la vache. Rec. de Méd. Vét. 124: 461-464. Oct. 1948. 41.8 R24
- 19243 DERING, Z. An interesting case of monstrosity of the foetus of a cow. (In Polish.) Med. Wet. 4: 788. Dec. 1948. 41.8 M463 English summary.



- 19244 DIKMANS, G. Anaplasmosis [in cattle]. Internat. Cong. Trop. Med. and Malaria. Abs. 4: 112-113. 1948. 150.1 C766  
Transmission by ticks.
- 19245 DODD, D. C., TITCHEN, D. A., and WHITTEM, J. H. Staphylococcal cystitis in a dog. Austral. Vet. J. 24: 285-286. Oct. 1948. 41.8 Au72
- 19246 DONKER-VOET, J. Control of Brucella abortus. A short review of the last year's literature. (In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 55: 227-240. Ref. Sept. 1948. 41.8 V51
- 19247 DUMARESQ, J. A. A note recording the presence of Trichomonas foetus infection of cattle on King Island. Austral. Vet. J. 24: 282. Oct. 1948. 41.8 Au72
- 19248 DUNLOP, G. Anoestrus in grazing animals due to nutritional causes. (Abs.) Zootec. e Vet. 3(6): 38. June 1948. 41.8 Z7  
Cattle and sheep.
- 19249 FACHINI, G. Research on the nutritive value of fats. The fatty acids of the lipidic deposits in the calf and the suckling rat as a function of age. (In Italian.) Zootec. e Vet. 3: 226-234. Apr./May 1948. 41.8 Z7
- 19250 FACHINI, G. Thyroxine and lactation: amount of milk and fat content. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 35. June 1948. 41.8 Z7  
In cattle.
- 19251 FEENSTRA, E., and others. An experimental case of pyelonephritis. M. S. C. Vet. 9(1): 15-17, 27. Fall 1948. 41.8 M582  
M. L. Gray, F. Thorp, Jr., C. F. Clark, and R. D. Hatch, joint authors.  
Heifers infected with Corynebacterium renale.
- 19252 FIELD, H. I. A survey of bovine salmonellosis in mid and west Wales. Vet. J. 104: 323-339. (Concl.) Ref. Oct. 1948. 41.8 V643
- 19253 FILION, R. Etude anatomo-pathologique des mammites bovines. Canad. J. Compar. Med. 12: 301-305. Nov. 1948. 41.8 C162
- 19254 FORREST, R. L. The case for dehorning. Farmer & Stock-Breeder 62: 2477-2478. Oct. 26, 1948. 10 F228
- 19255 FOSCHI, M. Contribution to the knowledge of the histological lesions of the bovine ovary, with particular reference to ovarian cysts. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 45. June 1948. 41.8 Z7
- 19256 FRISCHBIER, A. Nachweis weiterer formen der akuten, diffusen glomerulonephritis beim rind. Tierärztl. Umschau 3: 1-6; 45-48. Jan.-Feb. 1948. 41.8 T445
- 19257 GARM, O. Investigations on cystic ovarian degeneration in the cow with special regard to etiology and pathogenesis. (Abs.) Zootec. e Vet. 3(6): 42. June 1948. 41.8 Z7
- 19258 GEROSA, G. Bovine sterility following foot and mouth disease. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 55. June 1948. 41.8 Z7
- 19259 GHIDA, F. Influence of the time of parturition on the productivity of dairy cattle. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 35. June 1948. 41.8 Z7
- 19260 GOPALAKRISHNAN, V. R. Cattle relief work in Nowgong flood. Indian Farming 8: 302-303. June 1947. 22 In283  
Injuries due to floods.
- 19261 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Husk or hoose in calves. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 14, 2 p. Sept. 1948. 41.9 G792A  
Vermineous bronchitis.
- 19262 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Mastitis in cattle. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 17, 4 p. Oct. 1948. 41.9 G792A
- 19263 HAG, I. Studies on tissue cells (other than spermatozoa) of bull semen. (Abs.) Zootec. e Vet. 3(6): 20. June 1948. 41.8 Z7
- 19264 HANCOCK, J. L., and KELLY, W. R. Corynebacterium pyogenes in bull semen. Vet. Rec. 60: 669-670. Dec. 18, 1948. 41.8 V641
- 19265 HANSSON, A. Studies on monozygous cattle twins. IX-XI. Acta Agr. Suecana 3: 1-74. Ref. 1948. 11 Ac8  
IX. The interplay of heredity and environment on growth and yield, by G. Bonnier, A. Hansson, and H. Skjervold.  
X. The effect of feeding excessive amounts of calcium and phosphorus to milking cows. XI. The effect of premature parturition on udder development and milk secretion.
- 19266 HEBEISEN, U. Untersuchungen und massnahmen bei der trichomonadenseuche und anderen fruchtbarkeitsstörungen beim rind im Kanton Wallis. (In French.) (Abs.) Zootec. e Vet. 3(6): 51-52. June 1948. 41.8 Z7
- 19267 HENNAUX, L., DIMITROPOULUS, E., and CORDIEZ, E. L'action des antibiotiques sur la vitalité du sperme de taureau. (Abs.) Zootec. e Vet. 3(6): 70. June 1948. 41.8 Z7
- 19268 HENNING, M. W. Diseases of calves; coccidiosis (red diarrhoea). Farming So. Africa 23: 632-640. Sept. 1948. 24 So842
- 19269 HOFFMANN, Das chronische blutharnen der rinder. Allgäuer Bauernbl. 16: 287-288. Nov. 12, 1948. 18 AL53
- 19270 HUDDLESON, I. F., and BENNETT, G. R. The vaccinal immunizing value of a mucoid-growth phase of Brucella suis against brucellosis in cattle. Mich. Agr. Expt. Sta. Q. B. 31: 139-156. Ref. Nov. 1948. 100 M58S
- 19271 HUGHES, D. L. The results of a mastitis herd survey in the N. E. Midland area during 1946-48. Vet. Rec. 60: 659-660. Dec. 11, 1948. 41.8 V641  
Cattle.
- 19272 JONES, W. E. Rabies in a young cow. Amer. Vet. Med. Assoc. J. 113: 567. Dec. 1948. 41.8 Am3
- 19273 JONSCHER, F. Die trichomonadenseuche des rindes. Tierärztl. Umschau 3: 71-75. Mar. 1948. 41.8 T445
- 19274 KINGMAN, M. S. Ovarian tumor in the cow. (Abs.) Zootec. e Vet. 3(6): 42-43. June 1948. 41.8 Z7
- 19275 KOTHAVALLA, Z. R., and LAZARUS, A. J. The preparturient milking of dairy animals. Indian J. Vet. Sci. & Anim. Husb. 17: 52-58. Mar. 1947. 41.8 In22
- 19276 KRESS, F. Vorschlag zur bekämpfung der infektion des rindes durch schützimpfung. (Abs.) Zootec. e Vet. 3(6): 50. June 1948. 41.8 Z7  
Immunization against trichomoniasis.
- 19277 KWONG, F. J. Immunization of yaks against rinderpest by means of serum simultaneous method. J. Anim. Husb. & Vet. Med. 6(8/9): 50. Sept. 1947. 41.8 J827
- 19278 KWONG, F. J., and LEE, C. T. Studies on the lapinized rinderpest virus, strain. I. Susceptibility of pure-bred dairy cattle. (In Chinese.) J. Anim. Husb. & Vet. Med. 6(5/7): 23-26. July 1947. 41.8 J827  
English summary.
- 19279 LEGORI, E. Iodized salts in the treatment of certain vagino-cervical affections in cattle. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 53-54. June 1948. 41.8 Z7
- 19280 LINDLEY, D. C. Sodium sulfamethazine in treatment of Actinomyces necrophorus infections of the bovine foot. Amer. Vet. Med. Assoc. J. 113: 465-467. Nov. 1948. 41.8 Am3
- 19281 LOCKART, G. P. Vacunación contra la fiebre aftosa. A propósito de las "variantes" de virus. Indus. Lechera 30: 677-680, 682-683. Oct. 1948. 44.8 In26
- 19282 MIGLIAVACCA, L. Intravenous vaccination as a means of diagnosis and cure for bovine brucellosis. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 46. June 1948. 41.8 Z7
- 19283 MINETT, F. C. Panting in cattle, a sequel to foot-and-mouth disease. Amer. Vet. Med. Assoc. J. 113: 545-550. Ref. Dec. 1948. 41.8 Am3
- 19284 MOHAN, R. N. Incidence of brucellosis in dairy herds in Bengal. Indian J. Vet. Sci. & Anim. Husb. 17: 217-219. Dec. 1947. 41.8 In22
- 19285 MORGAN, B. B. Bovine trichomoniasis. North Amer. Vet. 29: 780-781. Dec. 1948. 41.8 N812
- 19286 MORGAN, B. B. Recent research on bovine trichomoniasis. (Abs.) Zootec. e Vet. 3(6): 43-44. June 1948. 41.8 Z7
- 19287 NARDELLI, L., and PARPAGLIONI, C. Bacterial flora and mast-cell infiltration in the bovine uterus. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 46-47. June 1948. 41.8 Z7
- 19289 NOVAZZI, G. On the temperature of cattle throughout the estrous cycle. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 23. June 1948. 41.8 Z7
- 19290 PAPP, Milchverlust durch trichomonadeninfektion. Tierärztl. Umschau 3: 105-106. Apr. 1948. 41.8 T445
- 19291 PAPP, E. Gasbrandübertragung bei sterilitätsbekämpfung. (Abs.) Zootec. e Vet. 3(6): 56. June 1948. 41.8 Z7  
In cattle.



19292 POLDING, J. B. Brucellosis in India. *Indian J. Vet. Sci. & Anim. Husbandry* 17: 147-155. Sept. 1947. 41.8 In22

In cattle and buffaloes.

19293 POULSEN, N. P. Brucellosis control and brucellosis legislation. (In Danish.) *Tidsskr. for Landøkonomi* 1948: 550-557. Nov. 1948. 11 T43

19294 PREGNANCY and parturition in the cow. (In Italian.) *Riv. di Zootec.* 21: 283-291. Aug./Sept. 1948. 49 R52

19295 REIS, J. L. M. The Zebus were not guilty. The case of foot and mouth in Mexico and its favorable outcome. (In Portuguese.) *Criação e Vet.* 2: 117. May 1947. 49 C86

19296 ROW, M. P. C. Intercoastal abscess in a bovine. *Indian Vet. J.* 25: 80-81. Sept. 1948. 41.8 In2

19297 RUSKA, H., POPPE, K., and KAUSCHE, G. A. Elektronenmikroskopische untersuchungen zur morphologie der Seiffertschen mikroorganismen und des erregers der lungenseuche des rindes. *Z. f. Hyg. u. Infektionskrankh.* 127: 201-215. Ref. 1947. 449.8 Z3

19298 RYAN, H. E. Pleuritis in a cow; a case report. *North Amer. Vet.* 30(1): 19, 24. Jan. 1949. 41.8 N812

19299 SALERNO, G. On a change in the bovine placenta not hitherto described (placental concretions with high iron content). (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 53. June 1948. 41.8 Z7

19300 SARWAR, M. M. An account of two species of lungworms from Indian goats. *Indian J. Vet. Sci. & Anim. Husbandry* 17: 63-67. Ref. Mar. 1947. 41.8 In22

19301 SCHALM, O. W. The effect of subcutaneous injections of benzoquinone (Koch treatment) on *Staphylococcus aureus* infection of the bovine mammary gland. *Amer. Vet. Med. Assoc. J.* 113: 561-563. Dec. 1948. 41.8 Am3

19302 SCHNEIDER, E. Untersuchungen über diagnose, lokalisation therapie und übertragung von *Trichomonas foetus* bei zuchtstieren. (In French.) (Abs.) *Zootec. e Vet.* 3(6): 57-58. June 1948. 41.8 Z7

19303 SCHÖMMER, E. Die kälberruhr, ihre ursachen, verhütung und heilung. *Land u. Frau* 28(3): 8. Aug. 21, 1948. 18 D482L

19304 SEVILLE, H. En cas de mammite, votre étable doit être désinfectée. *Acclimatation* 74: 164. June 28, 1947. 14 Ac2

19305 SHEEHY, E. J. Colostrum and diluted milk. *Farmer & Stock-Breeder* 62: 2473-2474. Oct. 26, 1948. 10 F228

Scours in calves.

19306 SHOPE, R. E. Propagation of the virus of cattle plague in the developing egg. *Internatl. Cong. Trop. Med. and Malaria. Abs.* 4: 109-110. 1948. 150.1 C766

19307 SIEKA, M. Milk fever in the 5th month after parturition. (In Polish.) *Med. Wet.* 4: 793-794. Dec. 1948. 41.8 M463

English summary.

In a cow.

19308 SMITH, S. E. Acetonemia in dairy cattle. *N. Y. Agr. Col. Cornell Feed Serv.* 21: 7. Nov. 1948. 275.29 N48Cf

19309 SOKOLOWSKI, W. Die tricomoniase der bullen und aussichten ihrer behandlung. (In English.) (Abs.) *Zootec. e Vet.* 3(6): 43. June 1948. 41.8 Z7

19310 SPANN, J. Verlängerte trächtigkeitsdauer beim rind. *Allgäuer Bauernbl.* 16: 301-302. Nov. 26, 1948. 18 AL53

19311 SPENCER, G. R. Bovine mastitis. *Milk Plant Monthly* 37(12): 34-36, 77. Dec. 1948. 44.8 C864

19312 SPISN, D. The histidine content of the blood serum of the cow before and shortly after fertilization. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 18. June 1948. 41.8 Z7

19313 SUÁREZ NELSON, M. Resultados del tratamiento local con sulfamidas en el ganado lechero; complicaciones plogenas de la fiebre aftosa. *Campo y Suelo Argentino* 32(384): 6-7. Oct. 1948. 9 C15

19314 SUGG, R. S. Penicillin in treatment of anthrax. *Amer. Vet. Med. Assoc. J.* 113: 467. Nov. 1948. 41.8 Am3

19315 SUTHERLAND, A. K., and MORRILL, C. C. An outbreak of leptospirosis in cattle. *Amer. Vet. Med. Assoc. J.* 113: 468-471. Ref. Nov. 1948. 41.8 Am3

19316 SWETT, W. W., MATTHEWS, C. A., and FOHRMAN, M. H. Development of the fetus in the dairy cow. *U. S. D. A. Tech. B.* 964, 34 p. June 1948. 1 Ag84Te

19317 TASSINARI, L. Penicillin in the treatment of bovine sterility. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 57. June 1948. 41.8 Z7

19318 TASSINARI, R. Stall infections as causes of sterility [in heifers]. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 55-56. June 1948. 41.8 Z7

19319 TASSINARI, R. Test showing "the probability of conception in cattle in heat." (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 48-49. June 1948. 41.8 Z7

19320 VAITSMAN, J. Veterinary help for calves. (In Portuguese.) *Lav. Arroz.* 2(20): 33-35. Aug. 1948. 59.8 L39

19321 VAITSMAN, J. Worms in cattle. (In Portuguese.) *Rev. dos Criadores* 19(8): 100, 76. Aug. 1948. 43.8 R32

19322 VUYST, DE, and others. Rapport entre l'élasticité de la glaire cervicale de la vache et la fécondation. (Abs.) *Zootec. e Vet.* 3(6): 25. June 1948. 41.8 Z7

Lamirov, Perlasca, and Vervack, joint authors.

19323 WAGNON, K. A. Elastration: controlled experiment on calves conducted at U. C. Experiment Station. *Calif. Wool Grower* 24(49): 6. Dec. 7, 1948. 45.8 C12

19324 WEHMEYER, P. Etude physico-chimique du sang et du sérum de bœufs vaccinés contre la fièvre aphteuse. *Rev. d'Immunol.* 12: 239-243. 1948. 448.8 R323

19325 WELCH, H. Improved herd management will reduce shipping fever losses in calves. *Mont. Stockgrower* 20(12): 4-5. Dec. 15, 1948. 49 M76

19326 WILKINS, H. F. Hemorrhagic septicemia (shipping fever). *Mont. Stockgrower* 20(11): 6. Nov. 15, 1948. 49 M76

19327 WILLE, E. Über sexualreflexe beim rind und ihre beeinflussung durch umweltsbedingungen (stallhaltung, fütterung, paarung). *Tierärztl. Umschau* 3: 173-177. June 1948. 41.8 T445

19328 WISŁOCKI, M. The practical application of rumenotomy in cattle. (In Polish.) *Med. Wet.* 4: 776-784. Ref. Dec. 1948. 41.8 M463

English summary.

19329 WISNICKY, W., and CASIDA, L. E. A manual method for the diagnosis of pregnancy in cattle. *Amer. Vet. Med. Assoc.* 113: 451-452. Nov. 1948. 41.8 Am3

19330 WRAMBY, G. Investigations into the antigenic structure of *Bact. coli* isolated from calves, with special reference to coli septicaemia (white scours). Uppsala, Appelberg, 1948. 168 p. Ref. 448.2 W92

#### Miscellaneous

19331 AINSWORTH, J. C., SR. Some improvement tips from a veteran. *West. Live Stock* 34(3): 53. Oct. 1948. 49 W523

Culling cattle.

19332 ARNOLD, E. Das klauenschneiden der rinder. *Saat u. Ernte* 3(10): 6. Oct. 1948. 18 Sa12

19333 ARNOULD, C. Influence de la traite sur le lait. *Acclimatation* 75: 216. Oct. 9, 1948. 14 Ac2

19334 BALDAUF, X. Besuchte die viehhaltungs- und melkkurse? *Landw. Wchnbl.* 138: 339. Oct. 30, 1948. 18 L2338

19335 BELGIUM. MINISTÈRE DES COLONIES. DIRECTION GÉNÉRALE DE L'AGRICULTURE ET DE L'ÉLEVAGE. Note sur l'élevage des bovidés du Dahomey au Mayumba, par A. Flamigni. Bruxelles, 1948. 28 p. 43 B4132

19336 BIRKE. Ochsen-anspannung? *Land, Wald u. Garten* 3: 57-58. Mar. 1948. 18 L22

19337 BOWLING, G. A. Introduction of cattle to North America. *Ayrshire Digest* 34: 892-893, 998, 1006, 1008. (To be cont.) Dec. 1948. 43.8 Ay7

19338 BOYSEN. 50 jahre milchleistungskontrolle. *Molkerei-Ztg.* 1: 185-186. Dec. 6, 1947. 44.8 M735

19339 BURKE, J. D. Dairy herd management. *N. Y. Agr. Col. Cornell Feed Serv.* 21: 7-8. Nov. 1948. 275.29 N48Cf

19340 CASTLE, C. V. Raising calves and heifers in Los Angeles County. *Calif. Dairyman* 28(23): 38-39, 42. Dec. 18, 1948. 44.8 C12

19341 COOK, G. C., and SWEANY, H. P. Judging [dairy cows] on type and production. *Hoard's Dairyman* 93: 935. Dec. 25, 1948. 44.8 H65

19342 COTTON, E. J. Buffalo tales. *Canad. Cattlemen* 11: 164-165, 168. Dec. 1948. 49 C16



19343 DELAFORGE, O. La vache laitière: la production du lait. *Monit. Agr.* 1(44): 6; (45): 6. Nov. 14-21, 1948. 14 M744

19344 DOBLINGER, S. Schnell-melken gibt fettreiche, langsam-melken fettarme milch! *Deut. Landw. Presse* 71(3): 6. Aug. 21, 1948. 18 D482

19345 EDWARDSON, J. Cow and calf. *Young Farmer* 16: 187-188. Nov./Dec. 1948. 10 Y8  
Second in a series on the birth and rearing of animals.

19346 EGERTON, J. R. Many cows give less milk than goats. *Dairy Farmer* [Ipswich] 21(12): 9-10. Dec. 1948. 44.8 D1414

19347 FAREY, E. A. Points that win cow-judging competitions. *Dairy Farmer* [Ipswich] 21(12): 30. Dec. 1948. 44.8 D1414

19348 FORMIGONI. Mechanical milking and the third milkings. (In Italian.) *Campagna* 47: 269-270. Oct. 31, 1948. 16 C152

19349 GEDDES, H. J. Sucking vice in calves is result of a primitive urge; measures for its control. *Farmer & Dairyman* 40(501): 9-10. Oct. 1948. 23 F225

19350 GONZÁLEZ, J. A. Causas que merman la producción láctea en nuestro ganado. *Nicaragua. Min. de Agr. y Trab. Agropecuarias* 1(4/5): 22-23. Feb./Mar. 1948. 8 N51D

19351 GRIMPRET, J. Les vaches laitières au Maroc. *Colon. Franç. de Tunisie* 58(2078): 1, 3. Dec. 18, 1948. 24 C712

19352 GROTE. Zuchtziel und milchfettgehalt. *Land, Wald u. Garten* 3: 106-107. May 1948. 18 L22

19353 HÖLLERICH, R. In welchem lebensalter gibt die kuh die meiste milch? *Pflug* 1: 185. Nov. 1948. 14 P48

19354 HÖLLERICH, R. Mehr milch durch rechtzeitiges trockenstellen. *Pflug* 1: 166. Oct. 1948. 19 P48

19355 HYATT, G., JR., and TYLER, W. J. Does classification need revision? *Ayrshire Digest* 34: 895, 991, 1076. Dec. 1948. 43.8 Ay7

19356 JONES, E. Informe sobre la venta de sementales Hereford. *Diario Rur.* 8(811): 6. Sept. 25, 1948. 9.9 D54  
Uruguay.

19357 MCCLYMONT, G. L. Care of the house cow; hints on selection and maintenance. *Agr. Gaz. N. S. Wales* 59: 490-492. Sept. 1948. 23 N472

19358 MAHER, R. E. South Texas thundering herds. *Cattleman* 35(8): 124-126. Jan. 1949. 49 C29

19359 MEGGINSON, F. Handling cattle. *Jamaica. Dept. Agr. Ext. C. 8*, 8 p. Oct. 1947. 275.249 J22

19360 MEGGINSON, F. Showing cattle. *Jamaica. Dept. Agr. Ext. C. 10*, 8 p. Oct. 1947. 275.249 J22

19361 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF DAIRYING. School for herd recorders, Newport, 10th to 14th. May, 1948. 17 p. 43.9 N47  
Partial contents: Fundamentals of animal husbandry and selection of a dairy cow, by G. McGillivray, 2 p. Calf rearing, by A. R. Atkinson, 4 p. Composition of milk, by A. B. Shelton, 10 p. How milk is made, by A. C. Small, 8 p. Origin of domesticated cattle, by A. C. Small, 6 p., Elementary genetics, by I. W. Scott, 6 p. Feed and feeding, by I. W. Scott, 17 p.

19362 PAARMANN, E. Tiermedizinische milchhygiene im rahmen des reichsmilchgesetzes. *Milchwissenschaft* 3: 371-372. Dec. 1948. 44.8 M5933  
Summary in English, French, and Russian.

19363 PARISOT, C. Les vaches "montagnardes" donneront plus de lait. *Vie Agr.* 3(68): 7. Feb. 6/13, 1947. 14 V673

19364 PEGG, S. E. Using [dairy] herd recording results. *Queensland Agr. J.* 67: 29. July 1948. 23 Q33

19365 PELZER, J. Pierce College-agricultural school makes bid for dairy circle recognition. *West. Dairy J.* 5(2): 56-57. Dec. 1, 1948. 44.8 W524  
Research.

19366 REID, J. N. Cattle in the Orkney Islands. *Scotch Shorthorn Rec.* 1948(2): 29. Dec. 1948. 43.8 Sco3

19367 REIS, J. L. M. Acclimatation and immunization of imported cattle. (In Portuguese.) *Soc. Coop. da Indús. Pecuaria do Pará. B.* 16(70): 11. Sept. 1948. 280.2409 Sol

19368 SHEPHERD, J. L. Take care of heifers having their first calves. *Dairy Farmer* [Ipswich] 21(12): 34-35. Dec. 1948. 44.8 D1414

19369 TERRAZAS MONTAÑO, I. Control de la producción lechera. *Campo* [La Paz] 2(15): 64-66. July 1948. 9.1 C15

19370 UBIDIA R., J. El ordeño a mano. *Cám. de Com. e Indus. de Tegucigalpa. B.* 2(22): 37-38. Sept. 1948. 287 T23

19371 U. S. BUR. DAIRY INDUSTRY. List of publications available from the Bureau of Dairy Industry. *U. S. Bur. Dairy Indus. BDIM-Inf-64*, 4 p. Nov. 1948. 1.973 D4B34

19372 U. S. BUR. OF DAIRY INDUSTRY. Report, 1947/48. Washington, 1948. 23 p. 1 D14

19373 VALLEJO, L. C. La sanidad de las ubres y la producción de leche higiénica. *Indus. Lechera* 30: 651, 653-657, 659-662. Oct. 1948. 44.8 In26

19374 VAUGH, M. How to increase the village family's milk supply. *Allahabad Farmer* 22: 293-295. Mar. 1948. 22 AL5  
Use of dairy cows as draft animals.

19375 VONDELING, A. The production requirements of cattle herd books in connection with production of grass land and land types. (In Dutch.) *Alg. Nederland. Zuivelbond. Off. Orgaan* 40: 237-238. Oct. 20, 1948. 44.9 AL3

19376 WEIDRINGER, W. Vermehrte zugochsenhaltungen ein gebot der wirtschaftlichkeit. *Deut. Viehandel* 3(15): 3. Aug. 1948. 49 D482

19377 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The dairy calf and yearling heifer; 4-H Club manual. *Wyo. Agr. Col. Ext. C. 101*, 39 p. May 1948. 275.29 W99C

19378 ZORN, W. Kernfragen der rinderzucht und rinderhaltung; wissenschaftliche erfahrungstatsachen und erkenntnisse. *Deut. Viehandel* 3(14): 5. July 1948. 49 D482

## DOGS AND CATS

### Breeds and Breeding

19379 BEEMAN, L. Cocker obedience training. *Cocker Spaniel Visitor* 10(11): 14; (12): 10-11. Nov.-Dec. 1948. 48.8 C64

19380 BROWN, W. Cómo educar perros de caza. *Nuestros Amigos* 5(51): 4-5, 37. Aug. 1948. 48.8 N88  
Spaniels.

19381 GOULD, E. History of the American Pit Bull Terrier. *Bloodlines* 31(12): 3, 19. (To be cont.) Dec. 1948. 48.8 B62

19382 KENDRICK, H. The gun dog breeds. *Pa. Game News* 19(9): 14, 31. Dec. 1948. 412.9 P38Pe

19383 KENDRICK, H. The Labrador Retriever. *Pa. Game News* 19(5): 21, 31. Aug. 1948. 412.9 P38Pe

19384 KING, B. Capitalizing on advertising. *Cocker Spaniel Visitor* 10(11): 18-19. Nov. 1948. 48.8 C64

19385 KING, B. Fashions in Cocker. *Cocker Spaniel Visitor* 10(8): 15-17. Aug. 1948. 48.8 C64

19386 LAURANS, R., and WILCZYNSKA, H. Quelques observations sur le volume, la concentration et la conservation de sperme normal du chien. (Abs.) *Zootec. e Vet.* 3(6): 68. June 1948. 41.8 Z7

19387 MAGALHÃES, J. A. P. DE. The most suitable bird dog. (In Portuguese.) *Fauna* [São Paulo] 7(8): 5-8. Aug. 1948. 410 F272

19388 MEINERS. Der Zwergschnauzer. *Kleintierzucht. Tierbörse* 2(35/36): 8. May 10/25, 1948. 49 K672

19389 MERCER, D. The industrious Kelpie; distinctive sheepdogs of the Australian outback. *Field* 192: 610. Nov. 27, 1948. 10 F45

19390 PALMER, G. F. The English Springer Spaniel. *New Zeal. Dog World* 3(8): 2-4. Sept. 1948. 48.8 N48

19391 RICKETTS, V. L. Breeding Toys for fun and profit. *All-Pets Mag.* 19(11): 30-34. Nov. 1948. 48.8 AL5

19392 RICKETTS, V. L. Dogs. Choosing a breed. *All-Pets Mag.* 19(12): 37, 41-43. (To be cont.) Dec. 1948. 48.8 AL5

19393 SMOLIK, R. E. The standing of Toys today. *All-Pets Mag.* 19(11): 34-36. Nov. 1948. 48.8 AL5

19394 WILLOUGHBY, C. Trends in Hound breeding. *Field* 192: 637. Dec. 4, 1948. 10 F45

19395 YEATES, C. Cats—then and now. *Fur & Feather* 111: 531. Oct. 22, 1948. 49 F96  
Breeds.



## Feeds and Feeding

- 19396 SINGAL, S. A., SYDENSTRICKER, V. P., and LITTLEJOHN, J. M. The rôle of tryptophan in the nutrition of dogs on nicotinic acid-deficient diets. *J. Biol. Chem.* 176: 1051-1062. Ref. Dec. 1948. 381 J824

## Veterinary Medicine

- 19397 AMORE, A. D'. Epithelioma of probable pancreatic origin in a cat. (In Italian.) *Ist. Super. di Sanit. Rend.* 11: 557-565. 1948. 449.9 R66  
French, English, and German summaries.
- 19398 BASTAWI, N. H. An unusual case of paraphimosis in a dog. *Vet. J.* 104: 353. Oct. 1948. 41.8 V643
- 19399 BATEMAN, J. K. A fresh approach to the repair of the os calcis in the Greyhound. *Vet. Rec.* 60: 674. Dec. 18, 1948. 41.8 V641
- 19400 BATES, M. N. The early development of the hypoglossal musculature in the cat. *Amer. J. Anat.* 83: 329-355. Ref. Nov. 1948. 447.8 Am32
- 19401 BAXTER, A. J. An aplastic anaemia [in a dog] due to fibrosarcoma. *Vet. Rec.* 60: 629-630. Nov. 27, 1948. 41.8 V641
- 19402 BERMAN, M. B. Estudio sobre la acción hipnótica del ácido dialilbarbitúrico (Dial) en el perro. *Veterinaria* 12: 299-317. Ref. May 1948. 41.8 V6429
- 19403 BLOOD, D. C., and WHITEM, J. H. Chylous ascites associated with congestive heart failure in a dog. *Austral. Vet. J.* 24: 283-284. Oct. 1948. 41.8 Au72
- 19404 BOER, E. DE. Filariasis in dogs and the differential diagnosis of rabies. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 175-177. Sept. 1948. 41.8 V51
- 19405 BURKHART, R. L., and others. Sulfamethazine blood concentrations in dogs and cats. *Amer. Vet. Med. Assoc. J.* 113: 576-578. Ref. Dec. 1948. 41.8 Am3
- C. R. Schroeder, M. Welsh, and P. H. Langer, joint authors.
- 19406 CARINI, A. On the exo-erithrocytic development cycle of a piroplasma in a dog. (In Portuguese.) *Arq. de Biol.* 32: 49-52. May/June 1948. 442.8 Ar6
- 19407 CORRÊA, O. Cancer in a dog's tail. (In Portuguese.) *Chacaras e Quintais* 78: 595. Nov. 15, 1948. 9.2 C34
- 19408 DIXON, A. C. The use of advancement flaps in entropion [in dogs]. *Vet. Rec.* 60: 665. Dec. 11, 1948. 41.8 V641
- 19409 FORD, E. J. H. An unusual case of pyometra in the bitch. *Vet. Rec.* 60: 608. Nov. 20, 1948. 41.8 V641
- 19410 FRICK, E. J. Dog's digestive tract as index to his health. *Gaines Dog Res. Prog.* 1948: 2-3. Fall 1948. 48.9 D67
- 19411 GORGI, N. Severe cough in a dog found after recovery to have been due to traumatic pharyngitis. *Vet. J.* 104: 354. Oct. 1948. 41.8 V643
- 19412 GREER, R. Cancer in a female dog. *Amer. Vet. Med. Assoc. J.* 113: 462. Nov. 1948. 41.8 Am3
- 19413 GUENTHER, F. Neue biologische Gesichtspunkte zur aetiologie und therapie der hundestaube. *Tierärztl. Umschau* 3: 6-10. Ref. Jan. 1948. 41.8 T445
- 19414 HO, E. A., HSU, T. H., and LI, Y. A report on examination of 994 dogs in Sian and its nearby villages for leishmaniasis. *Chin. Med. J.* 66: 387-389. Ref. July 1948. 448.8 C44
- 19415 HSU, K. C. A survey of the helminths of dogs in Chengtu, Szechuan. *Chin. Med. J.* 66: 366-370. July 1948. 448.8 C44
- 19416 HYAM, R. I. C. Foreign body in the frontal sinus of a dog. *Vet. Rec.* 60: 649. Dec. 4, 1948. 41.8 V641
- 19417 JOHNSON, H. N. Methods of rabies control. *Internat. Cong. Trop. Med. and Malaria. Abs.* 4: 45-46. 1948. 150.1 C766  
In dogs and wild animals.
- 19418 JONAS, S. Hound with porcupine quills. *Amer. Vet. Med. Assoc. J.* 113: 563. Dec. 1948. 41.8 Am3
- 19419 JONAS, S. Surgical reduction of medial patella dislocations. *Amer. Vet. Med. Assoc. J.* 113: 556. Dec. 1948. 41.8 Am3  
In a dog.
- 19420 KANEGIS, L. A. A new treatment of ascariasis in dogs and cats. *Amer. Vet. Med. Assoc. J.* 113: 579-581. Dec. 1948. 41.8 Am3  
Use of caricide (1-diethylcarbamyl-4-methylpiperazine dihydrogen citrate).
- 19421 KONDE, W. N. Fibrosarcoma of the lung [of a dog] removed by lobectomy. *North Amer. Vet.* 30(1): 31-32. Jan. 1949. 41.8 N812
- 19422 KRAMER, K. K. A case of diaphragmatic hernia in a common cat. *Okla. Acad. Sci. Proc.* 28: 28. 1948. 500 Ok42
- 19423 LACHOWICZ, S. Teratological displacement of the rectum in a female puppy. (In Polish.) *Med. Wet.* 4: 788-790. Dec. 1948. 41.8 M463  
English summary.
- 19424 LACROIX, L. J. Congenital dilatation of the esophagus. *North Amer. Vet.* 30(1): 29-30. Jan. 1949. 41.8 N812  
In young dogs.
- 19425 LAGNEAU, F. Anomalies de la gestation chez la chatte. *Rec. de Méd. Vét.* 124: 439-444. Oct. 1948. 41.8 R24
- 19426 LIEOU, Y. C. Aujeszky's disease, the first case reported in China. (In Chinese.) *J. Anim. Husb. & Vet. Med.* 6(5/7): 6-7. July 1947. 41.8 J827  
English summary.
- 19427 LO, C. S. Some infectious diseases of domestic animals in China. V. Dogs and cats. *Amer. Vet. Med. Assoc. J.* 113: 472-474. Nov. 1948. 41.8 Am3
- 19428 MACINTYRE, A. B., and TREVAN, D. J. Observations on canine encephalitis. *Vet. Rec.* 60: 635-648. Dec. 4, 1948. 41.8 V641
- 19429 MAQSOOD, M. Tumours in the dog. *Indian Vet. J.* 25: 63-66. Sept. 1948. 41.8 In2
- 19430 MANN, G. V., and others. Parenteral nutrition. VII. Metabolic studies on puppies infused with fat emulsions. *J. Lab. & Clin. Med.* 33: 1503-1522. Ref. Dec. 1948. 448.8 J8233  
R. P. Geyer, D. M. Watkin, R. L. Smythe, D. Dju, N. Zamcheck, and F. J. Stare, joint authors.
- 19431 MEHLS, H. J. Über die prontosilverträglichkeit des hundes. *Tierärztl. Umschau* 3: 13-15. Jan. 1948. 41.8 T445  
Distemper therapy.
- 19432 MENDHEIM, H. Beiträge zur biologie und verbreitung des katzenbandwurmes. *Tierärztl. Umschau* 3: 15-16. Jan. 1948. 41.8 T445
- 19433 MULLIGAN, R. M. Types of neoplasms in five breeds of dogs. *North Amer. Vet.* 30(1): 26-28. Jan. 1948. 41.8 N812
- 19434 NOBLE, R. L. The effect of barbiturates and other substances on motion sickness in dogs. *Canad. J. Res. Sect. E, Med. Sci.* 26: 283-294. Oct. 1948. 470 C16E
- 19435 PETISCA, J. L. N. A new case of Sticker's sarcoma in a bitch. (In Portuguese.) *Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab.* 6: 347-352. Ref. 1947. 41.9 L68  
French, English, and German summaries.
- 19436 PRASAD, B. M. Studies on the haematology of dogs in health and when injected with *Babesia gibsoni* (Patton 1910). *Indian J. Vet. Sci. & Anim. Husb.* 17: 135-138. June 1947. 41.8 In22
- 19437 RAKOWER C., M., and RAMÍREZ MILLER, A. Presentación de un caso clínico de tetania puerperal en una perra. *U. Nac. Mayor de San Marcos. Facul. de Med. Vet. Rev.* 3(1): 44-45. Apr./June 1948. 41.9 Un37
- 19438 RANQUE, J., and others. Le diagnostic précoce de la leishmaniose canine par la ponction ganglionnaire. Réflexions à propos de soixante examens positifs obtenus en dix mois dans la région marseillaise. *Acad. Natl. de Méd. B.* 132: 339-340. May 25/June 1, 1948. 448.9 P21
- M. Ranque, J. Cabassu, and H. Cabassu, joint authors.
- 19439 RAO, B. S. P., and KHAN, A. H. Phenamidine in canine babesiosis. *Indian Vet. J.* 25: 78-79. Sept. 1948. 41.8 In2
- 19440 RAO, P. S., and SWAMINATHAN, R. B. R. Penicillin in pleurisy. *Indian Vet. J.* 25: 76-77. Sept. 1948. 41.8 In2  
Case of a dog.
- 19441 RAO, S. B. V. A case of pyloric obstruction in a dog. *Indian Vet. J.* 25: 86. Sept. 1948. 41.8 In2
- 19442 RATHNASABAPATHY, V. A clinical note on the therapeutic value of some of the latest patent drugs. *Indian Vet. J.* 25: 87-94. Sept. 1948. 41.8 In2  
Treatment of dogs.
- 19443 ROSEBERG, A. R. Hormones. *Cocker Spaniel Visitor* 10(10): 18-19; (11): 11-13. Oct.-Nov. 1948. 48.8 C64  
Physiology in man and dog.



- 19444 ROSEBERG, A. R. Pneumonia. Cocker Spaniel Visitor 10(12): 11-13. Dec. 1948. 48.8 C64
- 19445 RUIZ URBINA, H. Resección del ciego en un perro infestado de *Trichuris vulpis*. U. Nac. Mayor de San Marcos. Facul. de Med. Vet. Rev. 3(1): 46-49. Apr./June 1948. 41.9 Un37
- 19446 SANTIVANEZ MORALES, J., and RAKOWER C., M. Dos casos de filariosis canina. U. Nac. Mayor de San Marcos. Facul. de Med. Vet. Rev. 3(1): 39-43. Apr./June 1948. 41.9 Un37
- 19447 SCHIRMER, R. G. Case report pyothorax [in a cat]. M. S. C. Vet. 9(1): 25-26. Fall 1948. 41.8 M582
- Corynebacterium pyogenes infection.
- 19448 SCHNELLE, G. B. Dislocation of thoracic vertebrae, with marked spondylitis [in a dog]. North Amer. Vet. 30(1): 33, 37. Jan. 1949. 41.8 N812
- 19449 TAYLOR, B. A. Distemper in dogs. Canterbury Chamber Com. Agr. B. 229, 4 p. Aug. 1948. 23 C162
- 19450 TRAEGER, H., and TRAEGER, H. Die behandlung der nervenstaue mit künstlichem fieber. Tierärztl. Umschau 3: 110-111. Apr. 1948. 41.8 T445
- Dogs.
- 19451 TRIAU, A. Diabète sucré du chien traité par l'insuline-retard. Rec. de Méd. Vét. 124: 465-468. Oct. 1948. 41.8 R24
- 19452 VALLERY-RADOT, P. Recherches expérimentales sur l'action cholérétique du trithioparaméthoxyphénylpropène chez le chien. Acad. Natl. de Méd. B. 131: 773-775. Dec. 23, 1947. 448.9 P21
- 19453 WEISS, A. K. An anomalous bifurcation of the inferior vena cava in a cat. Okla. Acad. Sci. Proc. 28: 28-29. 1948. 500 Ok42
- 19454 WILCZJNSKA, H., and LAURANS, R. Ovulation provoquée chez la chienne. (Abs.) Zootec. e Vet. 3(6): 5. June 1948. 41.8 Z7

#### Miscellaneous

- 19455 GOULD, E. Every child needs a dog. Bloodlines 31(11): 18-19. Nov. 1948. 48.8 B62
- 19456 JUDY, W. L. Care of the dog; a presentation, on practical and scientific bases, of the care, housing, feeding, grooming, health and general management of the dog, particularly for the layman dog owner. Ed. 4. Chicago, Judy Pub., 1948. 96 p. 48 J92C
- 19457 KING, B. More on air freight shipments. Cocker Spaniel Visitor 10(11): 31-32. Nov. 1948. 48.8 C64
- 19458 LOWRY, R. K. How to sell dogs. All-Pets Mag. 19(11): 30, 33, 35. Nov. 1948. 48.8 AL5
- 19459 MEINERS. Über die ausbildung des hundes. Kleintier-Zücht. Tierbörse 2(35/36): 8-9. May 10/25, 1948. 49 K672
- 19460 VAITSMAN, J. The dog that learned to speak. (In Portuguese.) Brincar e Aprender 7(29): 3. Apr./June 1948. 275.249 B77
- 19461 YOUNG, W. A. Feline handling and restraint. North Amer. Vet. 30(1): 34-37. Jan. 1949. 41.8 N812

#### FUR ANIMALS - PEN RAISED

##### Breeds and Breeding

- 19462 FRICK, H. Kurzhaarfuchs? Deut. Pelztierzucht. 22: 198-200. Nov. 15, 1948. 412.628 D48
- Silver fox.
- 19463 HANNSON, A. Reproduction in the mink, *Mustela vison*: Schreb. (In German.) (Abs.) Zootec. e Vet. 3(6): 26. June 1948. 41.8 Z7
- 19464 SCHMIDT, F. Warum züchten wir noch keinen kurzhaarfuchs? Deut. Pelztierzucht 22: 165-167. Oct. 15, 1948. 412.628 D48
- Silver fox.
- 19465 SPENCER, N. Breeding mink to obtain size. Fur Farming J. 2(1): 9. July/Aug. 1948. 45.8 K142
- Also in Black Fox Mag. 32(7): 30, 42. Nov. 1948. 410 B56
- 19466 STEVENSON, J. H. F. Origins of the Platina fox. Brit. Fur Trade 30: 428. Nov. 1948. 412.628 B77

##### Feeds and Feeding

- 19467 BASSETT, C. F., and WILKE, F. Low meat diets for breeding foxes. Fur J. 15(1): 5, 24-25. Nov. 1948. 412.628 F969

- 19468 BASSETT, C. F. The protein requirement of growing minks. Amer. Fur Breeder 21(6): 52, 54. Dec. 1948. 410 Am33
- 19469 CLOSE, T. Mineral mistakes—vitamin vices. Amer. Fur Breeder 21(6): 32, 34. (Concl.) Dec. 1948. 410 Am33
- Minks.

#### Veterinary Medicine

- 19470 GORHAM, J. R. Hernia in mink. Black Fox Mag. 32(8): 21. Dec. 1948. 410 B56
- 19471 GORHAM, J. R. Inflammation found in kidneys of mink. Fur J. 15(2): 21. Dec. 1948. 412.628 F969
- 19472 HORNYCH, W. Practical sanitation program important. Fur J. 15(1): 20. Nov. 1948. 412.628 F969
- On fur farms.
- 19473 KEAGY, H. F. The Chinchilla corner. Caesar-ean section. Fur Trade J. Canada 26(3): 32, 34. Nov. 1948. 410 F965
- 19474 OTT, G. L. Vaccination is like taking out insurance policy. Amer. Natl. Fur & Mkt. J. 27(6): 17, 25. Jan. 1949. 412.629 Am3M
- Distemper prevention in mink.
- 19475 POPPENSIEK, G. C. Life-savers. Amer. Fur Breeder 21(6): 44, 46, 48, 50. Dec. 1948. 410 Am33
- Diseases of fur bearing animals and their prevention.
- 19476 POPPENSIEK, G. C. The prevention and cure of fur animal diseases. Black Fox Mag. 32(7): 22, 33-37. Nov. 1948. 410 B56

#### Miscellaneous

- 19477 AFANASYOV, V. Russian farmers raise variety of fur animals. Fur J. 15(2): 21. Dec. 1948. 412.628 F969
- 19478 BOWLER, M. Points on raising the American chinchilla. Fur Farming J. 2(1): 5, 7. July/Aug. 1948. 45.8 K142
- 19479 CANADA. DOMINION EXPERIMENTAL FOX RANCH, SUMMERSIDE, P. E. I. Progress report; results of experiments 1936-1946. Ottawa, 1948. 35 p. 101 Ex6R
- 19480 CARE of chinchillas. Good Earth Mag. 3 (1/2): 14-16. Nov./Dec. 1948. 6 G59
- 19481 CHADDOCK, T. T. Some practical suggestions for mink ranchers. Amer. Natl. Fur & Mkt. J. 27(6): 5-6, 29, 31, 33-34. Jan. 1949. 412.629 Am3M
- 19482 FIGURA, V. The beaver, domestic animal. (In Italian.) Terra e Sole 73/74: 739-742. Nov. 1948. 16 T273
- 19483 GARNER, F. T. Raising South American chinchilla in Iowa. Fur Farming J. 2(1): 8. July/Aug. 1948. 45.8 K142
- 19484 HARRINGTON, L. R. Fine-furred friends. Family Herald & Weekly Star 79(51): 7. Dec. 22, 1948. 7 F21
- Fur-farming in Canada.
- 19485 HELGEBOSTAD, A. Special problems connected with fur animal research. (In Norwegian.) Norsk Pelsdyrbil. 22: 352-356. Nov. 20, 1948. 412.628 N812
- 19486 LIEBERMANN, J. Sobre la cría de animales pilíferos en las regiones cuyanas. Rev. Mens. B. A. P. 31(371): 8, 62-64. Oct. 1948. 9 R326
- 19487 SCHWEIZER, E. R. Chinchilla ranch. Colo. Rancher & Farmer 2(24): 5. Dec. 25, 1948. 6 C714
- Raising chinchillas.
- 19488 U. S. EXPERIMENTAL FUR STATION. [Alaska offers excellent opportunities in fur farming.] Petersburg, Alaska, 1948? 2 p. 1.972 Z2AL1
- 19489 WAKEFIELD, L. What causes production failures? Amer. Fur Breeder 21(5): 8, 10, 12, 14. Nov. 1948. 410 Am33
- Mink farming.
- 19490 ZETTY, M. How to start a chinchilla ranch. Black Fox Mag. 32(8): 18, 33-35. Dec. 1948. 410 B56

#### HORSES AND MULES

##### Breeds and Breeding

- 19491 ANTONIL, J. A. It's not a hybrid. (In Portuguese.) Chacaras e Quintais 78: 581-582. Nov. 15, 1948. 9.2 C34
- Discussion of a mule which had offspring.
- 19492 AUBRY, M. Le cheval de trait Augeron. Encyclopéd. Vét. Périod. 1948: 105-107. 1948. 41.8 En1



- 19493 AUSTIN, C. F. Pedigree—your Morgan Horse's "bank account." Morgan Horse Mag. 8(5): 30-34. Oct. 1948. 42.8 M82
- 19494 BJARNASON, G. Das isländische pferd. Tierzucht 2: 110-113. July/Aug. 1948. 49 T443
- 19495 BUCHLI, A. R. -Why I register with NQHBA. Tex. Livestock J. 7(12): 48. Dec. 15, 1948. 49 T29 National Quarter Horse Breeders Association.
- 19496 CASEMENT, J. Why I register with AQHA. Tex. Livestock J. 7(12): 54. Dec. 15, 1948. 49 T29 American Quarter Horse Association.
- 19497 CASTELVETRO, P. More on the stud farms. (In Italian.) Allevatore 4(37): 5. Sept. 12, 1948. 49 AL55
- 19498 CHEBAEVSKII, V. F. Methods of breeding droves of horses in the eastern districts. (In Russian.) Konevodstvo 18(3): 16-27. May/June 1948. 42.8 K832
- 19499 CHEVIGNY, J. DE. Normand horses. (In Italian.) Humus 4(9): 15-17. Sept. 1948. 16 H88
- 19500 DASHIELL, G. The Arabian horse on Catalina Island. West. Horseman 13(6): 16-17, 49-51. Nov./Dec. 1948. 42.8 W522
- 19501 DENNIS, W. The Quarter Horse in the Midwest. Tex. Livestock J. 7(12): 57. Dec. 15, 1948. 49 T29
- 19502 DENVER, D. C. The story of Alla Amarward. Tex. Livestock J. 7(12): 60-61. Dec. 15, 1948. 49 T29 Chiefly on breeding of Arabian horses.
- 19503 DOUGLAS, H. H. La historia de los caballos lippizanos. Asoc. Argentina de Fomento Equino. [Rev.] 6(40): 36-42. June 1948. 42.9 As52
- 19504 DOWDALL, R. C. La raza Criolla, breve reseña histórica de su origen. Raza Criolla 24(9): 25-32. Aug. 1948. 42.9 A55
- 19505 DUSTON, F. M., JR. The golden trend. Tex. Livestock J. 7(12): 56. Dec. 15, 1948. 49 T29 Palomino.
- 19506 ENGELHARD, J. Nette reprise du cheval [France]. Rustica 21: 915. Dec. 19, 1948. 14 R92 History of the Administration des Haras Nationaux.
- 19507 FEGER, and WOLLERSHEIM. Die schleimhauttherapie in der sterilitätsbekämpfung. Tierärztl. Umschau 3: 132-135. Ref. May 1948. 41.8 T445 Horses.
- 19508 FOUCHE, S. P., JR. The American Saddle Horse—type and history. So. African Saddle Horse 1(4): 7-8. June 1948. 42.8 So8
- 19509 GARAGARZA, J. E. M. Haras Militar "General Lavalle." Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino 8(32): 52-61. Sept. 1948. 42.8 R32 Horsebreeding farm.
- 19510 GIUBBILEI, C. Prized equine breeds; horses of pure oriental blood. (In Italian.) Allevatore 4(35): 3. Aug. 29, 1948. 49 AL55
- 19511 HAINES, F. The Appaloosa. West. Horseman 14: 12, 36. Jan. 1949. 42.8 W522
- 19512 HARRIS, A. W. Arabians have their uses. Tex. Livestock J. 7(12): 50. Dec. 15, 1948. 49 T29
- 19513 HERNANDEZ ROA, A. El caballo Criollo cubano. Raza Criolla 24(9): 38-39, 120-121, 123-128. Aug. 1948. 42.9 A55
- 19514 IWANOWSKI, G. Horse breeding in Poland. So. African Saddle Horse 1(4): 12-13. June 1948. 42.8 So8
- 19515 KLIUCHNIKOV, V. K., and MANAKOV, I. D. The Poles'e horse of the Ukraine and methods for its improvement. (In Russian.) Konevodstvo 18(4): 26-30. July/Aug. 1948. 42.8 K832
- 19516 KUMMER, U. VON. Zuchtleistungsprüfungen bei pferden. Neue Mitt. f. die Landw. 3: 328-329. Oct. 15, 1948. 18 N39
- 19517 LAKOZA, I. I. About the desirable type of farm horse. (In Russian.) Konevodstvo 18(4): 14-21. July/Aug. 1948. 42.8 K832 Chiefly breeding.
- 19518 LERENA SAENZ PEÑA, G. Observaciones sobre la cría del sangre pura de carrera en Argentina. Agr. y Ganad. 24(9): 3-14. Sept. 30, 1948. 8 Ag834
- 19519 LINCOLN RED SHORTHORN SOCIETY. Lincoln Red herd book. v. 47-48. Lincoln, Lincolnshire Chronicle, 1947-48. 43.9 L632
- 19520 LODER, J. Successful breeding stock. Field 192: 660. Dec. 11, 1948. 10 F45 Horses.
- 19521 LÖWE, H. Vererbung einzelner körpermerkmale beim pferd. Züchtungskunde 20: 10-15. Apr. 1948. 49 Z8
- 19522 MARSTON, H. W. Agricultural Remount Service to aid breeding of light horses. Tex. Livestock J. 7(12): 62. Dec. 15, 1948. 49 T29
- 19523 MEYER, E. Leistungsprüfungen in der pferdezucht. Züchtungskunde 20: 25-29. Apr. 1948. 49 Z8
- 19524 MOSS, T. One special family of [Tennessee] Walking Horses. West. Horseman 13(6): 26-27. Nov./Dec. 1948. 42.8 W522
- 19525 NEW YORK (STATE) DEPT. OF AGRICULTURE AND MARKETS. Stallion enrollments for the year 1947. N. Y. State Dept. Agr. & Markets. C. 680, 18 p. 1947? 2 N482C
- 19526 ONTARIO. DEPT. OF AGRICULTURE. STALLION ENROLLMENT BOARD. Report, 1948. Toronto, 1948. 46 p. 42.9 On8
- 19527 PARKS, C. D. Morgan horse breeding. West. Horseman 14: 6-7, 32-33. (To be cont.) Jan. 1949. 42.8 W522
- 19528 POLLEY, E. A. A visit to the United States Morgan Horse Farm. Morgan Horse Mag. 8(5): 25-26. Oct. 1948. 42.8 M82
- 19529 POSTNIKOV, G. M. The Kabardinian Horse. (In Russian.) Konevodstvo 18(4): 42-45. July/Aug. 1948. 42.8 K832
- 19530 RAU, G. Probleme der landespferdezucht. Deut. Viehhandel 3(13): 9; (14): 4; (22): 4. July 15, 31, Nov. 30, 1948. 49 D482
- 19531 SKATKIN, P. N. The sex cycles in horses. (In Russian.) Konevodstvo 18(4): 7-13. July/Aug. 1948. 42.8 K832
- 19532 SOCIÉTÉ ROYALE LE CHEVAL DE TRAIT BELGE. Stud-book des chevaux de trait belges. Bruxelles, Monnom, 1948. v. 51, 1947, 1291 p. 42.9 B418
- 19533 SPILLER, G. Some points about the Tennessee Walking Horse. Horse Lover 13(4): 33. Dec. 1948/Jan. 1949. 42.8 H7852
- 19534 THOMPSON, C. What constitutes a good Albino. Amer. Albino 4(12): 1. Oct. 1948. 42.8 Am38
- 19535 TSVETOV, V. S. Practices on the stud farm of Iasnaf Polfana Kolkhoz. (In Russian.) Konevodstvo 18(4): 38-41. July/Aug. 1948. 42.8 K832
- 19536 VAN DER MERWE, W. J. The riding horse on the sheep farm. So. African Saddle Horse 1(4): 9. June 1948. 42.8 So8 Chiefly on breeding.
- 19537 WENTWORTH, L. The authentic Arabian. West. Horseman 13(5): 16-17. Sept./Oct. 1948. 42.8 W522
- 19538 YOUNG, J. R. Are artificial standards ruining our horses? West. Horseman 13(6): 8-9, 32, 34, 36-47. Nov./Dec. 1948. 42.8 W522
- 19539 ZAPPE, H. A. PHBA to breed western types. Cattleman 35(8): 162. Jan. 1949. 49 C29 Palomino Horse Breeders of America.

#### Feeds and Feeding

- 19540 HARLING, R. A. The connection between "grass" and "horses." Tex. Livestock J. 7(12): 7, 31. Dec. 15, 1948. 49 T29 Relationship between nutritive value of grass and soil fertility.
- 19541 LASSERRE. Le régime du vert, ses effets, comment il faut l'entendre. Colon. Franç. de Tunisie 58(2075): 1-2. Nov. 27, 1948. 24 C712 Green feed for horses.

#### Veterinary Medicine

- 19542 BENNETT, P. M., and KING, A. S. Studies on equine purpura haemorrhagica. 2. Symptomatology. Vet. J. 104: 414-420. Dec. 1948. 41.8 V643
- 19543 BUENO, A. Un caso de rotura del flexor del metatarso o del peróneo anterior. Veterinaria 12: 319-320. May 1948. 41.8 V6429 In a mule.
- 19544 BURRI, K. Zum brunstzyklus der Freibergerstuten. (In French.) (Abs.) Zootec. e Vet. 3(6): 22-23. June 1948. 41.8 Z7



- 19545 CABRAL, A. The temperature of mules in vaccination against epizootic lymphangitis. (In Portuguese.) *Rev. de Med. Vet.* [Lisboa] 42: 279-280. July/Sept. 1947. 41.8 R3215
- 19546 CHAPRON, H. Fracture du métatarse chez un poulain; guérison. *Rec. de Méd. Vét.* 124: 458-460. Oct. 1948. 41.8 R24
- 19547 CHINI, S. General considerations of sulfa therapy and results obtained with large doses of sulfathiazole in curing a serious form of atypic adenitis. (In Italian.) *Prog. Vet.* 2: 158-160. July 1, 1947. 41.8 P942
- Horses.
- 19548 CLARK, H. C. Equine trypanosomiasis—murina of Panamá. *Internatl. Cong. Trop. Med. and Malari. Abs.* 4: 108-109. 1948. 150.1 C766
- 19549 CONFORTI, C. On some cases of dourine at the Centro Rifornimento Quadrupedi at Grosseto in 1946. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 41. June 1948. 41.8 Z7
- 19550 COTO CH., R. Posible existencia de la anemia infecciosa de los equinos en Costa Rica. *Cám. de Agr. de Costa Rica. Rev.* 2(3): 21, 25. June 1948. 8 C143R
- 19551 CUBONI, E. Demonstration of gonadotropins in the urine of the pregnant mare and the early diagnosis of pregnancy. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 22. June 1948. 41.8 Z7
- 19552 CURY, R., and PENHA, A. M. Observations on infection by the bacillus of Preisz-Nocard [Corynebacterium pseudotuberculosis] in the State of São Paulo. (In Portuguese.) *Soc. Paul. de Med. Vet. B.* 8: 43-53. June 1948. 41.9 S013
- Report of cases in equines.  
English summary.
- 19553 ECKELL, O. A., ORLIACQ, C., and GARAGARZA, J. La poliartritis de los potrillos; su tratamiento por la sulfaguanidina y el salicilato de sodio inyectable. *Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino* 8(31): 35-38. June 1948. 42.8 R32
- 19554 ERRINGTON, B. J. Evolution of the horse (and of his unsoundness). II. Thoroughbred Calif. 7(12): 36, 76. Dec. 1948. 42.8 T393
- 19555 ERRINGTON, B. J. Notes from a veterinary meeting. *Thoroughbred Calif.* 8(1): 20-21, 80. Jan. 1949. 42.8 T393
- Discussion of J. E. Peters' paper on "Fractures of the third phalanx and sesamoids in the race horse."
- 19556 ESQUEL, E. Indicaciones útiles para el desvase de caballos. *Raza Criolla* 24(9): 66-67, 137. Aug. 1948. 42.9 A55
- 19557 FERREIRA, L. D. B. B. On "Fasciola hepatica" in a donkey. (In Portuguese.) *Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab.* 6: 395-396. 1947. 41.9 L68
- French, English, and German summaries.
- 19558 FRONTINI, C. A. El menudillo, su importancia. *Campo y Suelo Argentino* 32(384): 20. Oct. 1948. 9 C15
- 19559 GALLUR, J. Pie topino tendinoso y rotura del tendón extensor de las falanges en los miembros anteriores de los solípedos. *Veterinaria* 12: 401-403. June 1948. 41.8 V6429
- 19560 GUNNING, O. V. Observations on the use of cod-liver oil applied locally in external eye affections, together with the report of the treatment of a mare with pronounced corneal opacity. *Vet. J.* 104: 421-423. Dec. 1948. 41.8 V643
- 19561 HANCOCK, J. L. Some effects of chorionic gonadotrophin on fertility in the mare. (Abs.) *Zootec. e Vet.* 3(6): 48. June 1948. 41.8 Z7
- 19562 HOFFMANN, A. P. La edad del caballo. *Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino* 8(31): 47-56. June 1948. 42.8 R32
- By means of teeth.
- 19563 HU, T. P. The treatment of glanders with sulfonamides. (In Chinese.) *J. Anim. Husb. & Vet. Med.* 6(5/7): 27-30. July 1947. 41.8 J827
- English summary.
- 19564 JIMÉNEZ ALCÁZAR, J. Sobre el uso de un aparato especial en el tratamiento de fracturas en las extremidades de los équidos. *Veterinaria* 12: 485-487. July 1948. 41.8 V6426
- 19565 KRANEVELD, F. C., and DJAENOEDIN, R. Investigation on the sensitivity of surra to the treatment of naganol and arsocoll in horses recovered from this disease. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 165-174. Sept. 1948. 41.8 V51
- English summary.
- 19566 KRANEVELD, F. C., and PETTINGA, J. J. Myiasis in the hoofs of cattle in the Minahassa (North Celebes). (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 179-182. Sept. 1948. 41.8 V51
- English summary.  
Vector?
- 19567 KRANEVELD, F. C., and MANSJOER, M. Tests of substitutes for naganol Bayer and arsocoll. II. Tryparsamide. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 203-209. Sept. 1948. 41.8 V51
- For surra in horses.
- 19568 KUFFERATH, E. Versuche zum schwangerschaftsnachweis nach Cuboni. *Tierärztl. Umschau* 3: 80-81. Ref. Mar. 1948. 41.8 T445
- Mares.
- 19569 LABORDE, A. Vías de inoculación más corrientes en los equinos. *Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino* 8(31): 39-46. June 1948. 42.8 R32
- 19570 LARRIVA, R. DE. Estudio del caballo. Enfermedades contagiosas: carbunco—fiebre carbuncosa. *Nuestros Amigos* 5(51): 12, 37. Aug. 1948. 48.8 N88
- 19571 LUPO, F. H. V. El trigo en grano puede determinar la muerte de los equinos. *Campo y Suelo Argentino* 32(384): 4-5. Oct. 1948. 9 C15
- 19572 MORGANTE, P. H. Osteitis de tercera falange o del hueso del pie del caballo. *Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino* 8(32): 29-31, 34. Sept. 1948. 42.8 R32
- 19573 NEGRI, R. The diagnosis of pregnancy in the mare by means of research on the Foä-Kurloff bodies. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 22. June 1948. 41.8 Z7
- 19574 NIKITIUKOW, B. A contribution to the origin of the pulmonary cavities in the horse. (In Polish.) *Med. Wet.* 4: 790-791. Dec. 1948. 41.8 M463
- English summary.  
Caused by injuries from a fall.
- 19575 NOVAZZI, G. Early diagnosis of pregnancy in the mare by means of Lupinus albus L. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 21. June 1948. 41.8 Z7
- 19576 PEREZ, J. J. Cristallisation de la serum-albumine de cheval en milieu neutre ou alcalin. *Paris. Acad. des Sci. Compt. Rend.* 227: 915-917. Nov. 3, 1948. 505 P21
- 19577 PLUNKETT, J. J. Epizootic lymphangitis [in horses]. *Internatl. Cong. Trop. Med. and Malaria. Abs.* 4: 112. 1948. 150.1 C766
- 19578 PUGET, E. Sur l'ictère des muletons nouveau-nés. *Rev. de Méd. Vét.* [Toulouse] 99: 503-510. Nov. 1948. 41.8 R32
- 19579 RATTENHUBER, E. Operative sterilitätsbehandlung bei der stute. *Tierärztl. Umschau* 3: 130-132. May 1948. 41.8 T445
- 19580 RAU, G. Pferde-mängel und ihre bekämpfung. *Deut. Viehhandel* 3(22): 4. Nov. 30, 1948. 49 D482
- 19581 RIBEIRO, J. M. Le cholestérol du semen des étalons. (Abs.) *Zootec. e Vet.* 3(6): 16. June 1948. 41.8 Z7
- 19582 RONZONI, B. Artificial insemination in horses as a prophylaxis against dourine. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 47. June 1948. 41.8 Z7
- 19583 ROWLANDS, I. M. Serum gonadotrophin and ovarian activity in the pregnant mare. (Abs.) *Zootec. e Vet.* 3(6): 5. June 1948. 41.8 Z7
- 19584 SAIGIN, I. A. Duration of lactation in milch mares. (In Russian.) *Konevodstvo* 18(3): 13-15. May/June 1948. 42.8 K832
- 19585 SANDOR, G., and SKROBISZ, C. Systèmes globuliniques du serum et l'immunité. I. Techniques de fractionnement des immunosérums de cheval. *Soc. de Chim. Biol. B.* 30: 410-416. Ref. July/Aug. 1948. 383 S01
- 19586 SCHOFIELD, F. W. Sulfamethazine (sulmet) in the treatment of joint ill in the foal. *Canad. J. Compar. Med.* 12: 305-306. Nov. 1948. 41.8 C162
- 19587 SEIFERLE, E. Über geirnkrankeiten des pferdes und einen versuch zu ihrer neurologisch-psychologischen auswertung. *Schweiz. Arch. f. Tierheilk.* 90: 615-647. (To be cont.) Nov. 1948. 41.8 Sch9
- 19588 SOARES, I. F. The trochlear canal of the sphenoid bone in "Equus caballus." (In Portuguese.) *Rev. de Med. Vet.* [Lisboa] 42: 252-264. July/Sept. 1947. 41.8 R3215
- French summary.



19589 SORRIAU, P. L'opération du cornage chez le cheval de gros trait. Encyclopéd. Vét. Périod. 1948: 120-128. 41.8 En1

19590 STECK, W. Intratracheale penicillinspülung beim pferd. Schweiz. Arch. f. Tierheilk. 90: 647-655. Nov. 1948. 41.8 Sch9

French and English summaries.

19591 STOCKING, G. G. The use of gonadogen in brood mares. (Abs.) Zootec. e Vet. 3(6): 5. June 1948. 41.8 Z7

19592 SUMNER, H. Equine accidents in the fields of sport. (Abs.) Natl. Vet. Med. Assoc. Gt. Brit. & Ireland. Ann. Rpt. & Balance Sheet 1948: 17. 41.9 V64

19593 THORP, F., JR., GRAY, M. L., and SHOLL, L. B. Equine virus abortion in Michigan. M. S. C. Vet. 9(1): 30. Fall 1948. 41.8 M582

19594 VÉLIZ LIZARRAGA, M. O. Contribución al estudio de la gastrophilosis en el Valle de Lima. U. Nac. Mayor de San Marcos. Facul. de Med. Vet. Rev. 3(1): 11-31. (To be cont.) Apr./June 1948. 41.9 Un37  
Gasterophilus nasalis in horses.

19595 VIGHENZI. Observations on "heat" in morses. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 75. June 1948. 41.8 Z7

19596 VILLANUEVA, J. Secreción láctea en una mula. Ceres 13(147): 42-43. Sept. 1, 1948. 15 C33

19597 WAGNER, E. Die hormonale schwangerschaftsdiagnose bei der stute. Tierärztl. Umschau 3: 78-79. Mar. 1948. 41.8 T445

19598 WIESENDANGER, H. The care of horses' hoofs. (In Italian.) Humus 4(9): 18-20. Sept. 1948. 16 H88

19599 ZAVAGLI, V. On a very rare case of superfetation in the horse. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 52. June 1948. 41.8 Z7

#### Miscellaneous

19600 BORISOV, M. N. The nature of maintaining droves of horses on stud farms in the steppes of western Kazakstan. (In Russian.) Konevodstvo 18(3): 27-33. May/June 1948. 42.8 K832

19601 DENCKER. Erfolgreiche DLG-Pferdeleistungsschau 1948. Neue Mitt. f. die Landw. 3: 331. Oct. 15, 1948. 18 N39

19602 DE YOUNG, J. Always a mystery. West. Horseman 13(6): 24-25. Nov./Dec. 1948. 42.8 W522  
Showing horses.

19603 DOBIE, J. F. Valiant horses in violent days. West. Horseman 13(6): 14-15, 38-41. Nov./Dec. 1948. 42.8 W522

19604 DUCK, R. W. There's a place for the farm horse. Rural New-Yorker 98: 772, 774. Dec. 18, 1948. 6 R88

19605 FERRER PALAUS, J. Del garañón catalán. Ceres 13(147): 36-39. Sept. 1, 1948. 15 C33

19606 FOREMAN, M. Horse handling science. 8. Pinching bits. Cattleman 35(8): 30. Jan. 1949. 49 C29

19607 GAVINO FRAU, B. Producción y cría del potro. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 39(179): 19-20. July/Aug. 1948. 8 R323

19608 GIUBBILEI, C. Raising horses. (In Italian.) Allevatore 4(39): 3. Sept. 26, 1948. 49 AL55

19609 GOBERT, J., and CAGNY, P. La cría del pura sangre - el caballo de carrera. Nuestros Amigos 5(51): 13. (To be cont.) Aug. 1948. 48.8 N88

19610 HERING. Der haflinger ist auch ein zugpferd. Allgäuer Bauernbl. 16: 272. Oct. 29, 1948. 18 AL53

19611 JOHNSON, M. M. Una valiosa opinión respecto al caballo en transporte de los abastecimientos militares. Asoc. Argentina de Fomento Equino. [Rev.] 6(40): 5-6. June 1948. 42.9 As52

19612 KOZHEVNIKOV, E. V. Good preparation of horses for the winter [U. S. S. R.]. (In Russian.) Konevodstvo 18(4): 1-3. July/Aug. 1948. 42.8 K832

19613 LEVIN, V. M., and ORLOVSKII, I. A. Draft horse of the western regions of the White Russian Republic. (In Russian.) Konevodstvo 18(4): 22-25. July/Aug. 1948. 42.8 K832

19614 LOUW, P. J. Make our youth horse conscious. (In Afrikaans.) So. African Saddle Horse 1(4): 11. June 1948. 42.8 So8

19615 MERZLIAKOV, A. In regard to the local draft horse in Tambov Region. (In Russian.) Konevodstvo 18(4): 45-47. July/Aug. 1948. 42.8 K32

19616 MONTMAGNY, C. DE. A quoi est due la supériorité de nos chevaux? Vie à la Campagne 37: 331-332. Nov. 1948. 80 V67

France.  
19617 RAU, G. Bewährte pferde stellten sich vor. Deut. Viehhandel 3(17): 2-3. Sept. 1948. 49 D482

19618 RAU, G. Leistungsprüfungen für kalt- und warmblut. Deut. Viehhandel 3(15): 4. Aug. 1948. 49 D482

Horses.  
19619 REAMES, W. The spooky horse. West. Horseman 13(6): 30, 44. Nov./Dec. 1948. 42.8 W522  
Overcoming fear in horses.

19620 RIES, L. W. Unsere pferdezucht im zeichen der motorisierung. Württemb. Wchnbl. f. Landw. 115: 263. Sept. 25, 1948. 18 W96

19621 SALCES, F. El fomento equino en nuestro país y en el Ejército. Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino 8(21): 17-31; (32): 14-28. (Cont.) June-Sept. 1948. 42.8 R32

19622 STEFFEN, R. This business of mustanging. Horse Lover 13(4): 46-50. Dec. 1948/Jan. 1949. 42.8 H7852

19623 STROBEL, F. W. Pony-zugleistungsprüfung. Tierzucht 2: 123. July/Aug. 1948. 49 T443

19624 THOMAS, J. Hackamore (jacquima) & spade bit horses. Horse Lover 13(1): 16-17, 34-35. June/July 1948. 42.8 H7852  
Chiefly on training.

19625 THOMAS, J. The western stock horse. Horse Lover 13(1): 8-9, 50, 52, 54, 56. June/July 1948. 42.8 H7852

19626 WADOWSKI, S. Horse shows in Lublin district (In Polish.) Med. Wet. 4: 798-800. Dec. 1948. 41.8 M463

English summary.

19627 WAUGH, R. The Australian stock horse. West. Horseman 13(5): 9-11. Sept./Oct. 1948. 42.8 W522

#### LABORATORY ANIMALS, SMALL

##### Breeds and Breeding

19628 BATTERSBY, E. The Golden Hamster. Fur & Feather 111: 530. (To be cont.) Oct. 22, 1948. 49 F96

19629 BISHOP, A. Abyssinian—the Cavy that has everything. Fur & Feather 111: 531. Oct. 22, 1948. 49 F96

##### Feeds and Feeding

19630 BRUCE, H. M., and EMMENS, C. W. The feeding and breeding of laboratory animals. VII. Methods of testing the adequacy of diets for breeding mice. J. Hyg. [London] 46: 315-324. Ref. Sept. 1948. 449.8 J82

19631 RIJST, M. P. J. VAN DER. The effect of limited food intake upon rats and mice. (In Dutch.) Voeding 9: 166-178. Ref. Oct. 15, 1948. 389.8 V85

##### Veterinary Medicine

19632 HURST, V., and TURNER, C. W. The thyroid secretion rate in the mouse and its relation to various physiological processes. Mo. Agr. Expt. Sta. Res. B. 417, 62 p. Ref. May 1948. 100 M693

##### Miscellaneous

19633 COUCH, V. M. Raising and care of cavyes. Calif. Rabbit News 9(9): 15. Dec. 1948. 40.28 C12

#### POULTRY

##### Breeds and Breeding

19634 ALEXANDER, A. K. S. Practical applications of genetics. Farmer & Stock-Breeder 62: 2857. Dec. 7, 1948. 10 F228  
Poultry.

19635 AMSDEN, J. Breeding methods from early days until the present. Mod. Poultry Keeping 59: 600-601, 647-648. Dec. 8, 22, 1948. 47.8 Eg3

19636 ARMSTRONG, J. R. C. Where did great-grandpa obtain all those fine fighting cocks? Grit & Steel 50(8): 54. Dec. 1948. 47.8 G88



- 19637 ASMUNDSON, V. S. Notes on turkey breeding and management. *Norbest Turkey News* 13(5): 1, 6-7. Nov. 1948. 47.38 N75  
Includes egg production.
- 19638 BABCOCK, M. C. Why I prefer purebreds. *U. S. Egg & Poultry Mag.* 54(12): 11, 26-27. Dec. 1948. 286.85 Eg3
- 19639 BALDY, B. The reorganisation and reconstruction of the Hungarian poultry breeding by the state. *World's Poultry Cong. Off. Rpt.* 8: 403-406. 1948. 47.9 W898O  
French summary.
- 19640 BANKS, E. Breed to shape and conformation. *Amer. Racing Pigeon News* 64(12): 6. Dec. 1948. 47.8 H75
- 19641 BEER, A. Das Barnevelderhuhn. *Geflügelhof* 11: 716-717. Nov. 12, 1948. 47.8 G276
- 19642 BENEZRA R., M. V. Raza New Hampshire. *Agro* 3(1/2): 23-26. Jan./Apr. 1948. 9.95 Ag83  
Poultry.
- 19643 BERNIER, P. E., and DAVEY, A. D. The commercial application of poultry genetics. *World's Poultry Cong. Off. Rpt.* 8: 422-427. 1948. 47.9 W898O  
French summary.
- 19644 BIKLE, A. Blick in die holländische geflügelzucht. *Geflügelhof* 11: 718-720. Nov. 12, 1948. 47.8 G276
- 19645 BRODT, G. Zwerghühner sollten mehr gehalten werden. *Landfrau* 3(19/20): 22. Oct. 1948. 18 L2337
- 19646 BUCKNER, G. D., and others. A study of the growth and calcification of the humerus of the male and female New Hampshire chicken. *World's Poultry Cong. Off. Rpt.* 8: 103-107. 1948. 47.9 W898O  
W. M. Insko, Jr., A. H. Henry, and E. F. Wachs, joint authors.  
French summary.
- 19647 CAMPBELL, H. L. The Trumpeter. *Pigeon News* 55(935): 5, 16. Jan. 1949. 47.8 P621
- 19648 CAPPER, A. Don't choose your breed—let the customer decide. *Poultry Farmer [London]* 119 (3100): 7. Dec. 3, 1948. 47.8 F312
- 19649 CARDROIT, F. Intervention des hormones et du système nerveux dans la constitution de certains phenotypes raciaux. *World's Poultry Cong. Off. Rpt.* 8: 126-131. 1948. 47.9 W898O  
English summary.
- 19650 CHARTERIS, R. L., and WATANABÉ, Y. Practical aspects of in-breeding. *World's Poultry Cong. Off. Rpt.* 8: 281-285. 1948. 47.9 W898O  
French summary.  
Also in *IBCA News* 24(4): 12. Dec. 1, 1948. 47.8 In83
- 19651 DAVEY, A. D. What good breeding will do when incorporated in the hatchery program. *Canada Poultryman* 35(11): 8-9, 27-29. Nov. 1948. 47.8 C166
- 19652 DIETZ, C. J. Oriental Frills. *All-Pets Mag.* 19(12): 71. Dec. 1948. 48.8 AL5  
Pigeons.
- 19653 DOMINGUES, O. A false belief among poultry breeders. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7: 181-182. July/Sept. 1948. 9.2 Ag892  
Gamecocks.
- 19654 DUBOISE, G. Discussion of the Yankee Roller. *Amer. Pigeon J.* 37: 323. Dec. 1948. 47.8 Am35
- 19655 DUDLEY, F. J., and PEASE, M. S. Experiments in top-crossing poultry. *World's Poultry Cong. Off. Rpt.* 8: 285-290. 1948. 47.9 W898O  
French summary.
- 19656 EMERSON, H. J. Our feathered friends. It's impossible to set down hard and fast rules by which to perfect game cocks. *Grit & Steel* 50(8): 34-35. Dec. 1948. 47.8 G88
- 19657 EVANS, W. D. The responsibility of chick hatcheries for stock improvement. *World's Poultry Cong. Off. Rpt.* 8: 437-440. 1948. 47.9 W898O  
French summary.
- 19658 FINSTERBUSCH, C. A. The game fowl of France. *Grit & Steel* 50(8): 36-43. Dec. 1948. 47.8 G88
- 19659 FORD, H. H. Why I prefer Giant Homers. *Amer. Pigeon J.* 37: 261. Oct. 1948. 47.8 Am35
- 19660 FRONDA, F. M. On the introduction of standard-bred fowls in the Philippines. *World's Poultry Cong. Off. Rpt.* 8: 446-450. 1948. 47.9 W898O  
French summary.
- 19661 FUCHS, F. W. Racing Homer hash. *All-Pets Mag.* 19(11): 56-57. Nov. 1948. 48.8 AL5  
Culling.
- 19662 GALLIEN, L. L'insémination artificielle chez les oiseaux. *Ann. Biol. [Paris] (Ser. 3)* 24: 97-103. Ref. Mar. 1948. 442.8 An7  
Poultry.
- 19663 GHIGI, A. Is the weight of the egg a sex-linked feature? *World's Poultry Cong. Off. Rpt.* 8: 751-752. 1948. 47.9 W898O  
French summary.  
Crossbreeding tests between White Leghorns and Gallus sonnerati.
- 19664 GODFREY, A. B. Selecting birds for U. S. R. O. P. matings. *U. S. Bur. Anim. Indus. A. H. D.* 104, rev., 4 p. Oct. 1948. 1.9 An52Ah
- 19665 GREENAN, F. R. Why I hatch hybrid chickens. *U. S. Egg & Poultry Mag.* 54(12): 10, 24. Dec. 1948. 286.85 Eg3
- 19666 GROSS. Erfahrungen mit Wiener Tümlern im 1. zuchtjahr. *Kleintier-Zücht. Tierbörse* 2(35/36): 5-6. May 10/25, 1948. 49 K672
- 19667 GRUBE, E. Pigeons. Old Holland Muffed Tumbler. *All-Pets Mag.* 19(12): 66, 71. Dec. 1948. 48.8 AL5
- 19668 GUÉRANDE. Comparaison entre Sussex et Bourbonnaise. *Rustica* 21: 804. Nov. 14, 1948. 14 R92
- 19669 GUÉRANDE. La Wyandotte blanche. *Rustica* 21: 881. Dec. 12, 1948. 14 R92
- 19670 GURSKE, H. L. Onward Cornish fowl breeders. *Poultry Press* 35(1): 10. Nov. 11, 1948. 47.8 P8643  
Poultry shows in Nebraska.
- 19671 HAGERHORST, A. W. Why I prefer 21-30-20 Rollers. *Amer. Pigeon J.* 37: 262-263. Oct. 1948. 47.8 Am35
- 19672 HARRIS, H. Planned breeding and progeny testing. *Poultry [London]* 103: 370, 395. Nov. 9-16, 1948. 47.8 P869
- 19673 HESS, C. W. Breeding for poultry meat quality. *N. H. Breeder* 11(4): 12-13. Dec. 1948. 47.8 N45
- 19674 HLOUŠKA, J. The regeneration of the breeding of the Bohemian goose. *World's Poultry Cong. Off. Rpt.* 8: 451-454. 1948. 47.9 W898O  
French summary.
- 19675 HØIE, J. Breeding experiments with chicks in daylight, electric lighting and "darkness." (In Norwegian.) *World's Poultry Cong. Off. Rpt.* 8: 107-109. 1948. 47.9 W898O  
English and French summaries.
- 19676 HORN, A. The liver developing capacity and its possible inheritance in the Hungarian goose. *World's Poultry Cong. Off. Rpt.* 8: 312-314. 1948. 47.9 W898O  
French summary.
- 19677 HOWES, H. Selecting male birds for the breeding pens. *Poultry [London]* 103: 335. Oct. 26, 1948. 47.8 P869
- 19678 JULL, M. A. Inheritance of efficiency of feed utilization in growing chickens. *World's Poultry Cong. Off. Rpt.* 8: 296-300. Ref. 1948. 47.9 W898O  
French summary.
- 19679 JUSTO, E. Influencia del medio ambiente sobre el organismo de la paloma mensajera. *Valencia Avic.* 5(7): 27-28. Aug. 1948. 47.8 V23
- 19680 KAUDER, I. Un arte, una ciencia, un problema de apareamiento. *Hacienda* 43(12): 52, 64. Dec. 1948. 6 H11  
Poultry breeding.
- 19681 KAUFMAN, L. On the mode of inheritance of broodiness. *World's Poultry Cong. Off. Rpt.* 8: 301-304. 1948. 47.9 W898O  
French summary.
- 19682 KAUFMAN, L. Sex-linked inheritance of body-weight in fowls. *World's Poultry Cong. Off. Rpt.* 8: 291-296. Ref. 1948. 47.9 W898O  
French summary.
- 19683 LARKWORTHY, M. V. Pedigree breeders are essential—on them depends the supply of high-grade stock birds, the foundation of the laying flock. *Farmer & Stock-Breeder* 62: 2793. Nov. 30, 1948. 10 F228
- 19684 LARRIERA EGUSQUIZA, D. Normas para seleccionar Rhode Island Rojas de postura. *Asoc. de Ingen. Agron. Rev.* 20(81): 13-17. June 1948. 290.9 As73



- 19685 LERNER, M. Poultry breeding and population genetics. World's Poultry Cong. Off. Rpt. 8: 262-269. Ref. 1948. 47.9 W8980  
French summary.
- 19686 LICHTENWALD, C. G. How I fly and train my Rollers. Amer. Pigeon J. 37: 263. Oct. 1948. 47.8 Am35
- 19687 LITTLETON, R. The origin of the Antwerps. Pigeon News 55(935): 8. Jan. 1949. 47.8 P621
- 19688 LITTLETON, R. W. Let's improve the Antwerp pigeon. Amer. Pigeon J. 37: 295. Nov. 1948. 47.8 Am35
- 19689 LOPES, H. S. Crosses between poultry breeds. (In Portuguese.) Criação e Vet. 2: 153-154. July 1947. 49 C86
- 19690 MCAREE, J. V. Origin and history of Whittingham Rollers. Amer. Pigeon J. 37: 260-261. Oct. 1948. 47.8 Am35
- 19691 MACKLIN, H. P. Pigeon portraits; the Archangel. Amer. Pigeon J. 37: 290-292. Nov. 1948. 47.8 Am35
- 19692 MACKLIN, H. P. Pigeon portraits—the Pheasant. Amer. Pigeon J. 37: 258-259, 278-281. Oct. 1948. 47.8 Am35
- 19693 MACKLIN, H. P. Pigeon portraits—the Swing Pouter. Amer. Pigeon J. 37: 324-325, 351. Dec. 1948. 47.8 Am35
- 19694 MARSDEN, S. J. Selecting breeding turkeys. World's Poultry Sci. J. 4: 262-265. Oct./Dec. 1948. 47.9 W89
- 19695 MOORE, A. C. Annual egg target should be 250 per layer. Poultry [London] 103: 472. Dec. 14, 1948. 47.8 P869  
Breeding.
- 19696 MOORE, A. C. We need more good strains—not more breeds. Poultry [London] 103: 392. Nov. 16, 1948. 47.8 P869
- 19697 MOORE, A. C. What is the best environment for breeders? Poultry [London] 103: 452. Dec. 7, 1948. 47.8 P869
- 19698 MUNRO, S. S. Our turkey breeding program. Co-op Chick News 19(11): 8-9, 12. Nov. 1948. 47.8 C783
- 19699 NICKERL, A. Austrian poultry breeds. World's Poultry Cong. Off. Rpt. 8: 455-456. 1948. 47.9 W8980  
French summary.
- 19700 NORMAN, W. L. A rose by any other name would not smell so sweet. Pigeon News 54(934): 7. Dec. 1948. 47.8 P621  
Pigmy Pouter pigeons.
- 19701 PEARSON, MRS. R. M. My first year with the Golden Legbar. Poultry Farmer [London] 119(3100): 4. Dec. 3, 1948. 47.8 F312
- 19702 PEASE, M. Inbreeding in poultry live stock improvement. World's Poultry Cong. Off. Rpt. 8: 33-42. 1948. 47.9 W8980  
French summary.
- 19703 PLOJHAR, J. The importance of the breeding of the "Česká zlatá kropenka" for local breeding in Bohemia. World's Poultry Cong. Off. Rpt. 8: 457-460. 1948. 47.9 W8980  
French summary.
- 19704 POWELL-OWEN, W. Flock or small unit? Individual matings not always possible, but some sound alternatives are quite practical. Poultry World 83: 371. Nov. 26, 1948. 47.8 P8682
- 19705 POWELL-OWEN, W. Production and reproduction. There is a close relationship between the two in that birds in good laying fettle are ripe for breeding. Poultry World 83: 415. Dec. 10, 1948. 47.8 P8682
- 19706 POWELL-OWEN, W. What balanced mating means: birds of standard quality may not be the utility breeder's aim, but the blending of identical faults will defeat stock improvement. Poultry World 83: 439. Dec. 17, 1948. 47.8 P8682
- 19707 PRICE, B. Breeding points of interest. Pigeon News 54(934): 16. Dec. 1948. 47.8 P621
- 19708 RADFORD, F. W. Getting ready for winter. All-Pets Mag. 19(11): 53-54. Nov. 1948. 48.8 AL5  
Bantam fowl.
- 19709 RAIMO, H. F. Down-color markings in New Hampshire baby chicks as related to sex and adult plumage color. World's Poultry Cong. Off. Rpt. 8: 314-319. 1948. 47.9 W8980  
French summary.

19710 RAIMO, H. F. Races of poultry and food consumption. (In Portuguese.) Rev. dos Criadores 18 (12): 34. Dec. 1947. 43.8 R32

19711 RAUCK, K. Wirtschaftlichkeit u. Schönheit unserer Sussexl. Kleintier-Zücht. Tierbörse 2(38): 2. June 25, 1948. 49 K672

19712 SAMAT, M. La sélection par le coq. Réveil Agr. 57: 297. Oct. 1, 1948. 14 R322

19713 SARASQUETA, P. A. DE. Selección de huevos para incubar. Rev. Mens. Ilus. B. A. P. 1948: 37-38. Sept. 1948. 9 R326

19714 SCHNETZLER, E. E. Hybridization of poultry. Amer. Egg & Poultry Rev. 9(13): 52-53. Dec. 1948. 47.8 Am38

19715 SCUDDER, J. A. Budapest and Blue Black Barred Tumblers. Amer. Pigeon J. 37: 294. Nov. 1948. 47.8 Am35

19716 SHOFFNER, R. N., and SLOAN, H. J. Heritability studies in the domestic fowl. World's Poultry Cong. Off. Rpt. 8: 269-281. Ref. 1948. 47.9 W8980  
French summary.

19717 SILK, W. H. Some facts about my Orpingtons. Poultry [London] 103: 397. Nov. 16, 1948. 47.8 P869

19718 TAYLOR, L. W. Genetics and breed standards. (Sum.) Amer. Poultryman 11(11): 8-9. Oct. 1948. 47.8 So86

19719 VALLANCE, J. G. Greatest men were sportsmen. Glorious traditions surround game fowl and patrons in all countries of globe. Grit & Steel 50(8): 63. Dec. 1948. 47.8 G88

19720 WALLACE, R. B. Hybrid chicken may revolutionize poultry industry. East. Union Farmer 6(11): 7. Dec. 1948. 280.28 Ea72

19721 WILTZER, A. L'évolution du cheptel avicole français. World's Poultry Cong. Off. Rpt. 8: 460-467. 1948. 47.9 W8980  
English summary.  
Breeds raised in France.

19722 WRIGHT, T. Let's make Indian Mondaines a breed. All-Pets Mag. 19(12): 67-68. Dec. 1948. 48.8 AL5  
Pigeons.

#### Feeds and Feeding

19723 BAEUM, J. Vitamin A requirements of laying pullets. World's Poultry Cong. Off. Rpt. 8: 81-85. 1948. 47.9 W8980

French summary.

19724 BASKETT, R. G., and others. Riboflavin in poultry nutrition. World's Poultry Sci. J. 4: 266-267. Oct./Dec. 1948. 47.9 W89

J. Houston, W. Bolton, and S. McConaghy, joint authors.

19725 BENNION, N. L. Feed and care of turkey breeding flocks. Norbest Turkey News 13(5): 5. (To be cont.) Nov. 1948. 47.38 N75

19726 BETHKE, R. M. Nutrition in poultry production. Westernnews 10(3): 1-4. Nov. 1948. 389.78 W522

19727 BIRD, H. R., RUBIN, M., and GROSCHE, A. C. Relation of an unidentified dietary factor to the utilization of vegetable proteins by chickens. World's Poultry Cong. Off. Rpt. 8: 187-194. Ref. 1948. 47.9 W8980  
French summary.

19728 BLACK, D. J. G., and COATES, M. E. The vitamin D requirements of intensively kept ducklings. World's Poultry Cong. Off. Rpt. 8: 96-102. 1948. 47.9 W8980

French summary.

19729 BROCKLEHURST, P. H. Poultry nutrition. Poultry Farmer [Sydney] 16(21): 12-13. Nov. 20, 1948. 280.28 Or32

19730 BROWN, T. T. Spoiled feed cuts egg production. South. Planter 109(12): 25. Dec. 1948. 6 So89

19731 CARD, L. E. Estimating feed needs of hens. San Diego Poultry J. 24(519): 6. Nov. 1948. 47.8 Sa52

19732 CASTELLÓ, S. El problema de la alimentación en avicultura. Valencia Avic. 5(6): 15-18. July 1948. 47.8 V23

19733 CSUKAS, Z. The utilization of increased intake of dietary protein in chicken. World's Poultry Cong. Off. Rpt. 8: 195-196. 1948. 47.9 W8980  
French summary.

19734 CUNNINGHAM, K. Ken Cunningham outlines a feeding schedule to grow pullets slowly. Canada Poultryman 35(11): 4, 6-7. Nov. 1948. 47.8 C166



- 19735 FINNE, I. Large quantities of boiled potatoes as feed for laying hens. (In Norwegian.) World's Poultry Cong. Off. Rpt. 8: 174-181. 1948. 47.9 W898O  
English and French summaries.
- 19736 GÁLLEGO PIEDRAFITA, J. El manganeso en avicultura. Ceres 13(147): 35-36. Sept. 1, 1948. 15 C33
- 19737 GILLIS, M. B. Potassium in poultry nutrition. N. Y. Agr. Col. Cornell Feed Serv. 21: 13-14. Nov. 1948. 275.29 N48Cf
- 19738 GRANGE, C. Feeding for winter eggs. Poultry [London] 103: 492. Dec. 21, 1948. 47.8 P869
- 19739 GRANGE, C. Home-grown foods will make first-class poultry mash. Smallholder 80(2017): 17. Nov. 26, 1948. 10 Sml  
Grain and roots.
- 19740 GRANGE, C. How to mix unrationed meals. Poultry [London] 103: 335. Oct. 26, 1948. 47.8 P869
- 19741 GRANGE, C. Right mash for ducks in an after-moult rest. Smallholder 80(2018): 17. Dec. 3, 1948. 10 Sml
- 19742 HALNAN, E. T. The role of urea and ammonium compounds as protein substitutes in poultry nutrition. World's Poultry Cong. Off. Rpt. 8: 233-236. 1948. 47.9 W898O  
French summary.
- 19743 HEUSER, G. F., SCOTT, M. L., and HILL, F. W. Feeding the turkeys. N. Y. Agr. Col. Cornell Feed Serv. 21: 18-20. Nov. 1948. 275.29 N48Cf
- 19744 HEUSER, G. F., GILLIS, M. B., and NORRIS, L. C. The pantothenic acid requirement of poultry. World's Poultry Cong. Off. Rpt. 8: 114-119. 1948. 47.9 W898O  
French summary.
- 19745 HEUSER, G. F., and HILL, F. W. Use of home-grown grains in poultry rations. N. Y. Agr. Col. Cornell Feed Serv. 21: 10-11. Nov. 1948. 275.29 N48Cf
- 19746 HILL, F. W. Poultry rations. N. Y. Agr. Col. Cornell Feed Serv. 21: 14-16. Nov. 1948. 275.29 N48Cf
- 19747 HILL, F. W. Recent developments in poultry nutrition. N. Y. Agr. Col. Cornell Feed Serv. 21: 12-13. Nov. 1948. 275.29 N48Cf  
Includes feed formulation.
- 19748 HØIE, J. Digestion experiments with wood cellulose, potatoes, and bran, with hens (1942-1944). (In Norwegian.) World's Poultry Cong. Off. Rpt. 8: 159-162. 1948. 47.9 W898O  
English and French summaries.
- 19749 HOWES, H. Fattening turkeys for the Xmas market. Poultry [London] 103: 416. Nov. 23, 1948. 47.8 P869
- 19750 HUTCHINSON, J. C. D. The use of "bacto-flavin" as a vitamin supplement in the rations of growing chicks. World's Poultry Cong. Off. Rpt. 8: 120-124. 1948. 47.9 W898O  
French summary.
- 19751 ISAKSSON, A. Predisposing nutritional factors for neurolymphomatosis in chickens. World's Poultry Cong. Off. Rpt. 8: 725-727. 1948. 47.9 W898O  
French summary.
- 19752 JOHNSON, E. L. Results of the application of dried milk research in poultry rations. Amer. Egg & Poultry Rev. 9(13): 48-51. Dec. 1948. 47.8 Am38
- 19753 JOHNSON, J. E. Good feeding through chemistry. Dow Diamond 11(6): 1-7. Nov. 1948. 381 D752  
Poultry.
- 19754 JUKES, T. H. Nutritional studies. Flour & Feed 49(8): 20, 22, 43. Jan. 1949. 298.8 F66  
Poultry.
- 19755 KALMAN, M. When fattening geese for Christmas. Poultry [London] 103: 370. (To be cont.) Nov. 9, 1948. 47.8 P869
- 19756 KIELANOWSKI, J. M. Some economic and physiologic aspects of fattening geese. World's Poultry Cong. Off. Rpt. 8: 249-253. 1948. 47.9 W898O  
French summary.
- 19757 KRATZER, F. H. Vitamin requirements of turkeys. Turkey World 24(1): 62. Jan. 1949. 47.38 T84
- 19758 LATHAM, J. O. Help the birds to make the most of the grassland. Mod. Poultry Keeping 59: 600-601. Dec. 8, 1948. 47.8 Eg3
- 19759 LEROY, A. M. L'aspect énergétique de l'alimentation des volailles. World's Poultry Cong. Off. Rpt. 8: 237-241. 1948. 47.9 W898O  
English summary.
- 19760 MCGINNIS, J. Utilization of yeast in chicken and turkey diets. (Abs.) Brewers Digest 23(12): 52. Dec. 1948. 390.8 B75
- 19761 MOORE, A. C. Food plan for turkey rearing and fattening. Poultry [London] 103: 354. Nov. 2, 1948. 47.8 P869
- 19762 MORRIS, L. Keep 'em eating. Utah Poultry Co-op. 13(4): 3, 8. Dec. 1948. 280.28 Ut1  
Poultry.
- 19763 MORRIS, R. H. Poultry feeding experiments. 3. West. Austral. Dept. Agr. Leaflet 914, 12 p. Perth, 1947. 23 W52B
- 19764 MORRIS, R. H. Poultry feeding experiments conducted at the Muresk Agricultural College with laying hens. West. Austral. Dept. Agr. Leaflet 887, 4 p. Perth, 1947. 23 W52B
- 19765 MOTZOK, I., HILL, D. C., and SLINGER, S. J. Studies of vitamin D nutrition and related factors in poultry. World's Poultry Cong. Off. Rpt. 8: 85-95. Ref. 1948. 47.9 W898O  
French summary.
- 19766 MUIR, W. R. On the importance of starch in food rations. Accredited Poultry Breeders' Fed. Eng. & Wales. News Serv. 1948(13): 20-23. Autumn 1948. 47.8 Ac2
- 19767 NEEL, L. G., and KARRASCH, R. J. Poultry nutrition. (Abs.) Southeast. Poultryman 1(5): 6, 11-13. Nov. 1948. 47.8 So872
- 19768 NIKOLAICZUK, N., BRISSON, G. J., and MANI, K. V. Investigations upon vegetable protein sources for poultry rations. World's Poultry Cong. Off. Rpt. 8: 181-187. Ref. 1948. 47.9 W898O  
French summary.
- 19769 OLSSON, N., and KIHLEN, G. Edin's indicator method in digestibility experiments on poultry. World's Poultry Cong. Off. Rpt. 8: 225-232. 1948. 47.9 W898O  
French summary.
- 19770 OLSSON, N. The role of fibre in the food of hens and chicks. World's Poultry Cong. Off. Rpt. 8: 162-167. 1948. 47.9 W898O  
French summary.
- 19771 OLSSON, N. Vitamin D assays on chicks. Some aspects of the technique. World's Poultry Cong. Off. Rpt. 8: 26-32. Ref. 1948. 47.9 W898O  
French summary.
- 19772 PETERSEN. Praktische futterpläne für gute eierleger. Land, Wald u. Garten 3: 147-148. (To be cont.) June 1948. 18 L22
- 19773 POLEY, W. E. It pays to know your producers. U. S. Egg & Poultry Mag. 54(12): 15-16, 19. Dec. 1948. 286.85 Eg3  
Feeding practices of poultrymen.
- 19774 PREDMERSZKY, D. How to compose and prepare foods for growing chickens in order to obtain better results in egg laying? World's Poultry Cong. Off. Rpt. 8: 213-216. 1948. 47.9 W898O  
French summary.
- 19775 PRYKE, W. J. Tasty mash means more eggs. Poultry Farmer [London] 119(3100): 10. Dec. 3, 1948. 47.8 F312
- 19776 SARASQUETA, P. A. DE. La alimentación avícola en sus diversos aspectos. Bolsa de Com., Rosario. Rev. 36(884): 21-28. Nov. 15, 1948. 287 R71
- 19777 SCOTT, M. L. Feeding market ducklings. N. Y. Agr. Col. Cornell Feed Serv. 21: 12. Nov. 1948. 275.29 N48Cf
- 19778 SENIOR, B. J. Fibre in the diet of chickens. World's Poultry Cong. Off. Rpt. 8: 168-173. 1948. 47.9 W898O  
French summary.
- 19779 SHAW, R. B. Eleven points about grass. Mod. Poultry Keeping 59: 646. Dec. 22, 1948. 47.8 Eg3  
Poultry grassland management.
- 19780 SIEVERLING, J. W. We found a substitute for peas. Amer. Pigeon J. 37: 294-295. Nov. 1948. 47.8 Am35  
Pellets for pigeon feed.
- 19781 SKOGLUND, W. C., TOMHAVE, A. E., and KISH, A. F. Carotene from vegetable leaf waste compared with vitamin A in chick rations. World's Poultry Cong. Off. Rpt. 8: 77-81. 1948. 47.9 W898O  
French summary.



19782 SQUIRES, G. A. Geese should be alone. Poultry Farmer [London] 119(3101): 7. Dec. 10, 1948. 47.8 F312

Chiefly on feeding.

19783 SVOBODA, F. What effects follow from various calcium additions to the feed rations of hens? World's Poultry Cong. Off. Rpt. 8: 203-207. 1948. 47.9 W8980

19784 TANGL, H. Goose-fattening problems in Hungary. World's Poultry Cong. Off. Rpt. 8: 254-261. 1948. 47.9 W8980

French summary.

19785 THAYER, R. H., and HELLER, V. G. Maintaining the carotene in poultry feeds. Okla. Acad. Sci. Proc. 28: 103-111. 1948. 500 Ok42

19786 THOMANN, W. The effect of artificial drying, of grinding and of growth on digestibility of green feed in poultry. World's Poultry Cong. Off. Rpt. 8: 197-203. 1948. 47.9 W8980

French summary.

19787 VINE, V. Un millón de dólares para un alimento avícola. Col. Prov. de Vet. de Burgos. C. 1948 (40/42): 48-50. Apr./June 1948. 41.9 B91

Folic acid in poultry nutrition.

19788 WASHINGTON STATE POULTRY EXTENSION SERVICE. Poul feeding and management schedule, one to eight weeks. Turkey World 24(1): 30. Jan. 1949. 47.38 T84

19789 WHITTLE, T. E. Recent advances in poultry nutrition. Mod. Poultry Keeping 59: 596-597. Dec. 8, 1948. 47.8 Eg3

#### Veterinary Medicine

19790 ADSERSEN, V. On the occurrence of the so-called round heart disease in Denmark. World's Poultry Cong. Off. Rpt. 8: 702-708. 1948. 47.9 W8980

19791 ARAUJO, P. When capons become filled with air. (In Portuguese.) Chacaras e Quintais 78: 562-563. Nov. 15, 1948. 9.2 C34

19792 AXWORTHY, R. Egg peritonitis. Poultry [London] 103: 496. Dec. 21, 1948. 47.8 P869

Disease caused by the dispersal of broken yolk over intestines.

19793 AXWORTHY, R. Roundworms in poultry. Poultry [London] 103: 455. Dec. 7, 1948. 47.8 P869

19794 AXWORTHY, R. Symptoms of fowl paralysis. Poultry [London] 103: 334-335. Oct. 26, 1948. 47.8 P869

19795 BACHMANN, F. La mutation d'énergie chez la poule domestique. World's Poultry Cong. Off. Rpt. 8: 242-248. Ref. 1948. 47.9 W8980

English summary.

19796 BĄCZKOWSKA, H. Sex dimorphism in the chick embryo. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E 2: 249-262. 1947. 512 L96Ae

English summary.

19797 BĄCZKOWSKA, H. A study of sex dimorphism in the chick embryo. World's Poultry Cong. Off. Rpt. 8: 341-345. Ref. 1948. 47.9 W8980

19798 BARRON, N. S. Diseases associated with nutritional defects encountered in England and Wales during the years 1939 to 1947. World's Poultry Cong. Off. Rpt. 8: 708-712. 1948. 47.9 W8980

French summary.

19799 BARRY, A. The functional significance of the cardiac jelly in the tubular heart of the chick embryo. Anat. Rec. 102: 289-298. Nov. 1948. 447.8 An1

19800 BEACH, J. R. Avian pneumoencephalitis (Newcastle disease) in the California Official Egg Laying Contest during 1947-48 test year. Nulaid News 26(9): 12-13. Jan. 1949. 47.8 N917

19801 BEACH, J. R. History of avian pneumoencephalitis (Newcastle disease) in California. World's Poultry Cong. Off. Rpt. 8: 651-658. Ref. 1948. 47.9 W8980

French summary.

19802 BEAMENT, R. A. Some diseases of poultry encountered in Cornwall. Vet. Rec. 60: 671-673. Dec. 18, 1948. 41.8 V641

19803 BÉDARD, J. A. E. Lorsqu'une maladie apparaît dans votre troupeau il faut l'identifier et en déterminer les causes. Avic. Québécois 3(10): 25-26. Oct. 1948. 47.8 Av55

19804 BÉDARD, J. A. E. Prévenez les maladies contagieuses dans votre élevage. Avic. Québécois 3(11): 21. Nov. 1948. 47.8 Av55

19805 BIRD, S. Effects following estrogen administration to male birds. World's Poultry Cong. Off. Rpt. 8: 131-136. Ref. 1948. 47.9 W8980

French summary.

19806 BJORN, M. K., and NORTHEN, H. T. Toxic effect of 2, 4-dichlorophenoxyacetic acid on chicks. (Abs.) Colo.-Wyo. Acad. Sci. J. 3(6): 46. Sept. 1948. 500 C717

19807 BLACKWELL, H. L. Disease prevention. Mod. Poultry Keeping 59: 653. (Cont.) Dec. 22, 1948. 47.8 Eg3

19808 BLIECK, L. DE. The present standpoint on coryza infectiosa. World's Poultry Cong. Off. Rpt. 8: 586-592. Ref. 1948. 47.9 W8980

French summary.

19809 BLOUNT, W. P. Pendulous crop among turkeys. Poultry [London] 103: 435. Nov. 30, 1948. 47.8 P869

19810 BLOUNT, W. P. The relationship between grit and digestive disorders in poultry. World's Poultry Cong. Off. Rpt. 8: 208-212. 1948. 47.9 W8980

French summary.

19811 BUXTON, A. Avian salmonellosis in England and Wales from 1939 to 1947. World's Poultry Cong. Off. Rpt. 8: 609-615. Ref. 1948. 47.9 W8980

French summary.

19812 COATES, M. E., KON, S. K., and SHEPHEARD, E. E. The use of chicks for the biological assay of members of the vitamin B complex. World's Poultry Cong. Off. Rpt. 8: 109-114. 1948. 47.9 W8980

French summary.

19813 COLES, J. D. W. A. Chicken-pox. Farming So. Africa 23: 629-631. Sept. 1948. 24 So842

19814 CORBETT, A. C. Immunization of N. H. flocks against infectious bronchitis. N. H. Bur. Mkt. Weekly Mkt. B. 27(35): 1. Dec. 15, 1948. 280.39 N45

19815 CORBETT, A. C. Newcastle vaccination program for New Hampshire. N. H. Bur. Mkt. Weekly Mkt. B. 27(34): 1. Dec. 8, 1948. 280.39 N45

19816 CORDIER, G. La peste aviaire en Tunisie. World's Poultry Cong. Off. Rpt. 8: 664-669. 1948. 47.9 W8980

English summary.

19817 CORONEL, A. B. Newcastle disease in the Philippines with special reference to immunization. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 110. 1948. 150.1 C766

19818 CORONEL, A. B. Poultry and swine diseases. Philippine Livestock Mag. 2: 123-124. Apr. 1948. 49 P53

19819 DOYLE, T. M. Newcastle disease. World's Poultry Cong. Off. Rpt. 8: 17-26. 1948. 47.9 W8980

French summary.

19820 DUARTE, A. T. Concerning an embryoma in the testicles of a cock. (In Portuguese.) Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab. 6: 379-387. Ref. 1947. 41.9 L68

French, English, and German summaries.

19821 EBBELL. Schnupfen und augenentzündungen. Geflügelhof 11: 731-733. Nov. 19, 1948. 47.8 G276

19822 ECHARRI LOIDI, J. M. La fenotiazina como antihelmíntico. Valencia Avic. 5(4): 16-18. May 1948. 47.8 V23

19823 EKMAN, P. A new chemical method for separating faecal nitrogen from urinary nitrogen in poultry excreta. World's Poultry Cong. Off. Rpt. 8: 220-225. Ref. 1948. 47.9 W8980

French summary.

19824 ESPOUY, F. La tuberculose des volailles. Acclimatation 75: 241, 246. Nov. 13-20, 1948. 14 Ac2

19825 FOX, W. La coloración de los pollitos al nacer. Agr. Austral 14: 7310-7311. Aug. 1948. 9.3 Ag842

19826 GÁLLEGO PIEDRAFITA, J. Algunas aportaciones a la patología aviar sobre aspergillosis. B. Zootec. 4: 87-89. Mar. 1, 1948. 41.9 So16

19827 GARRARD, E. H., BURTON, W. H., and CARPENTER, J. A. Non-pullorum agglutination reactions. World's Poultry Cong. Off. Rpt. 8: 626-631. 1948. 47.9 W8980

French summary.

19828 GEURDEN, L. The effect of sulfonamides on pullorum bacilli and pullorum infection. World's Poultry Cong. Off. Rpt. 8, 4 p. at end of volume. 1948. 47.9 W8980

French summary.



- 19829 GORDON, R. F. Internal parasites that are found in poultry. *Mod. Poultry Keeping* 59: 590-591. Dec. 8, 1948. 47.8 Eg3
- 19830 GORDON, R. F., REID, J., and ASPLIN, F. D. Newcastle disease in England and Wales. *World's Poultry Cong. Off. Rpt. 8: 642-650. 1948. 47.9 W8980*  
French summary.
- 19831 GRAMICCIA, G. Research on the infection of chick embryos by *Plasmodium gallinaceum* (note II). (In Italian.) *Riv. di Parassitol.* 9: 119-128. Sept. 1948. 436.8 R52  
English and French summaries.
- 19832 GREENWOOD, A. W., and BLYTH, J. S. S. The problem of pullet mortality. *World's Poultry Cong. Off. Rpt. 8: 687-691. 1948. 47.9 W8980*  
French summary.
- 19833 HINSHAW, W. R., and MCNEIL, E. Avian salmonellosis, its economic and public health significance *World's Poultry Cong. Off. Rpt. 8: 599-604. Ref. 1948. 47.9 W8980*  
French summary.
- 19834 HORTON SMITH, C. The effects of sulphonamides on coccidiosis of poultry caused by *Eimeria tenella*. *World's Poultry Cong. Off. Rpt. 8: 732-740. Ref. 1948. 47.9 W8980*  
French summary.
- 19835 HOURS, L. E. Treatment for poultry diseases: Fowl pox. (In Portuguese.) *Granja [Porto Alegre]* 3(35): 56. Aug. 1948. 9.2 G76
- 19836 HUFF, C. G. Natural immunity and susceptibility of doves and pigeons to pre-erythrocytic and erythrocytic stages of *Plasmodium relictum*. *Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 48-49. 1948. 150.1 C766*
- 19837 HUTT, F. B., and COLE, R. K. The development of strains genetically resistant to avian lymphomatosis. *World's Poultry Cong. Off. Rpt. 8: 719-725. 1948. 47.9 W8980*  
French summary.
- 19838 IDNANI, J. A., and SEETHARAMAN, C. Transmission of Ranikhet disease of fowls. *Indian J. Vet. Sci. & Anim. Husb. 17: 167-169. Sept. 1947. 41.8 In22*
- 19839 IGLESIAS, E. DE A. Enterohepatitis of turkeys and penicillin. (In Portuguese.) *Fazenda* 43(11): 58, 60. Nov. 1948. 6 H11P
- 19840 JAAP, R. G. The influence of sex and hormones on growth and fattening of chickens. *World's Poultry Cong. Off. Rpt. 8: 136-142. Ref. 1948. 47.9 W8980*  
French summary.
- 19841 JONES, J. C., and ANDERSON, G. W. Sulfamerazine in the treatment of a pseudomonas infection of turkey poults. *Amer. Vet. Med. Assoc. J. 113: 458-459. Nov. 1948. 41.8 Am3*
- 19842 JUNGHER, E. The role of histopathology in the diagnosis of poultry diseases. *World's Poultry Cong. Off. Rpt. 8: 727-731. Ref. 1948. 47.9 W8980*  
French summary.
- 19843 KARLSHØJ, K., and MARTHEDAL, H. E. Salmonella infections of poultry in Denmark, with special reference to *Salmonella niloese* infection. (In Danish.) *World's Poultry Cong. Off. Rpt. 8: 615-620. 1948. 47.9 W8980*  
French and English summaries.
- 19844 KAUFMAN, L. The effect of certain thermic factors on the morphogenesis of fowl embryos. *World's Poultry Cong. Off. Rpt. 8: 351-356. 1948. 47.9 W8980*  
French summary.
- 19845 KEITH, C. K., and others. Xanthine oxidase and tyrosinase in the livers of chicks receiving graded levels of dietary pteroylglutamic acid. *J. Biol. Chem.* 176: 1095-1101. Ref. Dec. 1948. 381 J824  
W. J. Broach, D. Warren, P. L. Day, and J. R. Totter, joint authors.
- 19846 KIKUTH, W., and MUDROW-REICHENOW, L. Über kausalprophylaktisch bei vogelmalaria wirksame substanzen. *Ztschr. f. Hyg. u. Infektionskrankh.* 127(1/2): 151-165. Ref. 1947. 449.8 Z3
- 19847 KLAUDE-KLAUDEL, M. Morphological research on the differences of body-weight in pure-bred and hybrid fowls. *World's Poultry Cong. Off. Rpt. 8: 304-311. 1948. 47.9 W8980*  
French summary.
- 19848 KOSIN, I. L. Parthenogenesis and abortive embryonic development in the domestic fowl. *World's Poultry Cong. Off. Rpt. 8: 345-351. Ref. 1948. 47.9 W8980*  
French summary.
- 19849 KRANEVELD, F. C., and NASOETION, A. Mouth- and throat trichomoniasis in pigeon on Java. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 123-154. Sept. 1948. 41.8 V51  
English summary.
- 19850 LAMONT, H. G. The control of bacillary white diarrhoea (pullorum disease) in Northern Ireland from 1927 until 1947. *World's Poultry Cong. Off. Rpt. 8: 621-625. 1948. 47.9 W8980*  
French summary.
- 19851 LESBOUYRIES, G. Troubles nerveux et parasitisme intestinal de la poule. *World's Poultry Cong. Off. Rpt. 8: 684-687. 1948. 47.9 W8980*  
French summary.
- 19852 LEVINE, P. P. Leukosis, Newcastle, and bronchitis control. *N. Y. Agr. Col. Cornell Feed Serv.* 21: 17-18. Nov. 1948. 275.29 N48Cf  
In poultry.
- 19853 LUKE, D. Round heart disease in poultry. *World's Poultry Cong. Off. Rpt. 8: 692-696. 1948. 47.9 W8980*  
French summary.
- 19854 MCCOY, R. H., and others. Oxybiotin metabolism in the chick. I-II. *J. Biol. Chem.* 176: 1319-1331. Ref. Dec. 1948. 381 J824  
J. N. McKibben, A. E. Axelrod, and K. Hofmann, joint authors.  
I. Deposition of oxybiotin in tissues; II. Oxybiotin and biotin balance studies.
- 19855 MCKAY, W. M. Treatment of fowl coryza by aqueous solution of iodine. *World's Poultry Cong. Off. Rpt. 8: 593-598. Ref. 1948. 47.9 W8980*  
French summary.
- 19856 MAREK, K. Infectious laryngotracheitis in fowls. (In Polish.) *Med. Wet.* 4: 767-771. Dec. 1948. 41.8 M463  
English summary.
- 19857 MARSHALL, W. The relationship of visceral anomalies of full term dead-in-shell to embryonic malposition. *World's Poultry Cong. Off. Rpt. 8: 336-341. 1948. 47.9 W8980*  
French summary.
- 19858 MARSHALL, W. Some anomalies of development in dead-in-shell embryos. (Sum.) *Accredited Poultry Breeders' Fed. Eng. & Wales. News Serv.* 1948 (13): 12-13, 23. Autumn 1948. 47.8 Ac2
- 19859 MEDINA BLANCO, M. La llamada peste aviar, en la provincia de Córdoba. *B. Zootec.* 4: 107-124, 135-147. Apr. 1-May 1, 1948. (Cont.) 41.9 So16
- 19860 MEDINA BLANCO, M. Nuevas aportaciones al estudio y terapéutica de la espiroquetosis aviar. *B. Zootec.* 4: 73-80. Mar. 1, 1948. 41.9 So16
- 19861 MIGUEL, M. Diversos factores que intervienen en la aparición de las epizootias. *Valencia Avic.* 5(4): 18-20. (Cont.) May 1948. 47.8 V23
- 19862 NADGIR, S. R. Caponising by stilboestrol implant. *Indian Vet. J.* 25: 85. Sept. 1948. 41.8 In2
- 19863 PATTEN, B. M., KRAMER, T. C., and BARRY, A. Valvular action in the embryonic chick heart by localized apposition of endocardial masses. *Anat. Rec.* 102: 299-308. Nov. 1948. 447.8 An1
- 19864 PETERSEN, G. Combatting fowl diseases in Denmark. *World's Poultry Sci. J.* 4: 252-254. Oct./Dec. 1948. 47.9 W89
- 19865 PETISCA, J. L. N. Alveolar carcinoma in the liver of a hen. (In Portuguese.) *Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab.* 6: 353-356. 1947. 41.9 L68  
French, English, and German summaries.
- 19866 PIANA, G. The histological behavior of the prehypophysis after dubbing in *Gallus gallus*. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 20. June 1948. 41.8 Z7
- 19867 PIANA, G. The influence of dihydroxydiethylstilbene on the secondary sexual characters and on the increase in body weight in *Gallus gallus*. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 24. June 1948. 41.8 Z7
- 19868 PIANA, G. Reciprocity of action between secondary sexual characters and gonads. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 36. June 1948. 41.8 Z7  
In poultry.



19869 PIJUÁN JIMÉNEZ, M. Nota sobre pullorosis experimental. *B. Zootec.* 4: 81-83. Mar. 1, 1948. 41.9 Sol6

19870 REIS, J. Coryza (of poultry). (In Portuguese.) *Criação e Vet.* 2: 122. May 1947. 49 C86

19871 ROMIJN, C. Respiration of the chicken before birth. *World's Poultry Cong. Off. Rpt.* 8: 356-361. 1948. 47.9 W898O

French summary.

19872 ROSENBERG, M. M., MCGIBBON, W. H., and HERRICK, C. A. Selection for hereditary resistance and susceptibility to cecal coccidiosis in the domestic fowl. *World's Poultry Cong. Off. Rpt.* 8: 745-751. 1948. 47.9 W898O

French summary.

19873 ROSENWALD, A. S. Live-virus pneumo-encephalitis (Newcastle disease) vaccine. *Co-op. Poultryman* 13(11): 21-23. Nov. 1948. 47.8 C782

19874 SANTISTEBAN GARCÍA, F. Estudio de algunas Pasteurellas y Salmonellas por cultivo en la membrana corioalantoidea del embrión de pollo. *Zootecnia* 7(15/18): 67-82. Ref. Jan./Dec. 1946, pub. July 1948. 41.8 G15

English summary.

19875 SASSENHOFF, I. Die bedeutung der sterilität in verlaufe des enzootischen herztodes bei huhn. (In English.) (Abs.) *Zootec. e Vet.* 3(6): 54-55. June 1948. 41.8 Z7

19876 SCHNEIDER, L. Materials for inoculation against fowl pest (peste aviaire) and their effectiveness. *World's Poultry Cong. Off. Rpt.* 8: 670-674. 1948. 47.9 W898O

French summary.

19877 SCHOENING, H. W., and OSTEEEN, O. L. Newcastle disease in the United States of America. *World's Poultry Cong. Off. Rpt.* 8: 636-641. 1948. 47.9 W898O

French summary.

19878 SCHUMANN. Wie weit eignen sich die schnellagglutinationsmethoden bei den bekämpfungsmassnahmen gegen die pullorumseuche? *Tierärztl. Umschau* 3: 10-12. Ref. Jan. 1948. 41.8 T445

19879 SHOMO, H. Multiple testing pays off in Virginia. *Southeast. Poultryman* 1(5): 4, 15. Nov. 1948. 47.8 So872

Testing chickens for pullorum disease.

19880 SOME observations of pasteurellosis. I-III. *Indian J. Vet. Sci. & Anim. Husb.* 17: 247-252. Dec. 1947. 41.8 In22

I. An outbreak of pasteurellosis in geese, by R. N. Mohan, p. 247-248. II. Pasteurellosis in ducklings, by S. N. Mohteda, p. 249. III. An outbreak of pasteurellosis in ducks, by S. K. Bhadury, p. 251-252.

19881 SOUSA, J. M. P. L. DE. On coccidiosis in pigeons. (In Portuguese.) *Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab.* 6: 389-392. 1947. 41.9 L68

French, English, and German summaries.

19882 SOUSA, J. M. P. L. DE. On tetrathyridiosis in a fowl. (In Portuguese.) *Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab.* 6: 393-394. 1947. 41.9 L68

French, English, and German summaries.

19883 SPITZBARTH, H. Allgemeines zur verhütung von hühnerkrankheiten. *Österr. Kleintierzüchter* 1948: 388. June 1948. 49 Os7

Sanitary measures chiefly.

19884 STAFSETH, H. J. Poultry remedies good, bad and indifferent. *M. S. C. Vet.* 9(1): 9-14, 31. Ref. Fall 1948. 41.8 M582

19885 STEELE, D. G., and INSKO, W. M., JR. Embryonic position in relation to age of hen. *World's Poultry Cong. Off. Rpt.* 8: 331-335. 1948. 47.9 W898O

French summary.

19886 STOLL, R. Actions de quelques hormones sexuelles sur le développement des canaux de Müller de l'embryon de poulet. *Arch. d'Anat. Micros. et de Morph. Expt.* 37: 118-135. Ref. 1948. 444.8 Ar21

19887 SWALES, W. E. Studies on the control of caecal coccidiosis. *World's Poultry Cong. Off. Rpt.* 8: 740-745. 1948. 47.9 W898O

French summary.

19888 TEKLIŃSKI, A. Recherches sur l'hérédité de l'immunité contre la pseudopeste aviaire en Pologne. *World's Poultry Cong. Off. Rpt.* 8: 658-663. 1948. 47.9 W898O

English summary.

19889 TEMPERTON, H. Recent studies of carotenoid and vitamin-A metabolism in the fowl. *World's Poultry Cong. Off. Rpt.* 8: 71-76. 1948. 47.9 W898O

French summary.

19890 TERRÁDEZ RODRÍGUEZ, J. Conferencia. Peste aviar. *Valencia Avíc.* 5(6): 18-22. July 1948. 47.8 V23

19891 THIERY, J. P. Les maladies des volailles. Leur importance en France depuis 1938. *World's Poultry Cong. Off. Rpt.* 8: 675-679. 1948. 47.9 W898O

English summary.

19892 VERGE. Vue d'ensemble sur la lutte contre les maladies des volailles dues à des ultra-virus. *World's Poultry Cong. Off. Rpt.* 8: 679-684. 1948. 47.9 W898O

English summary.

19893 WARD, G. W. Poultry diseases. III. Glossary, and the prevention and treatment of fowl pox. *Westralian Farmers' Co-op Gaz.* 14: 233-235. Oct. 1948. 280.28 W522

19894 WHEELER, R. S., and HOFFMANN, E. Influence of quantitative thyroprotein treatment of hens on length of incubation period and thyroid size of chicks. *Endocrinology* 43: 430-439. Ref. Dec. 1948. 448.8 En2

19895 WICKWARE, A. B. Infectious granuloma of fowls; a preliminary note. *Canad. J. Compar. Med.* 12: 294-296. Nov. 1948. 41.8 C162

19896 WILSON, J. E. Avian salmonellosis. *Vet. Rec.* 60: 615-622. Ref. Nov. 27, 1948. 41.8 V641

Discussion, p. 622-626.

19897 WILSON, J. E. Round heart disease in poultry in Scotland. *World's Poultry Cong. Off. Rpt.* 8: 697-702. 1948. 47.9 W898O

French summary.

19898 WINTON, B. Research on avian lymphomatosis. *World's Poultry Sci. J.* 4: 268-272. Oct./Dec. 1948. 47.9 W89

19899 WINTON, B. Studies of lymphomatosis at the U. S. Regional Poultry Research Laboratory. *World's Poultry Cong. Off. Rpt.* 8: 712-719. Ref. 1948. 47.9 W898O

French summary.

19900 WOLFF, E., and WOLFF, MME. E. Sur le déterminisme de la différenciation du pénis chez le canard. *Arch. d'Anat. Micros. et de Morph. Expt.* 37: 155-167. Ref. 1948. 444.8 Ar21

19901 WOLINS, W. Ornithosis (psittacosis), a review; with a report of eight cases resulting from contact with the domestic Pekin duck. *Amer. J. Med. Sci.* 216: 551-564. Ref. Nov. 1948. 448.8 Am3

#### Miscellaneous

19902 ALBERTI, F. Tierzüchterische aufgaben bei dem geflügel. *Landwirtschaftsblatt Weser-Ems* 95: 224-225. Oct. 30, 1948. 18 L2345

19903 ALEXANDER, A. K. S. A plan for every farm—must fit in with geographical conditions, main products and staff. *Farmer & Stock-Breeder* 62: 2791, 2793. Nov. 30, 1948. 10 F228

Poultry farm.

19904 ALEXANDER, A. K. S. The right kind of increase; we want more hens, but they must be good layers. *Farmer & Stock-Breeder* 62: 2975. Dec. 21, 1948. 10 F228

19905 ANGELL, J. M. Practical methods of cabinet incubation. *World's Poultry Cong. Off. Rpt.* 8: 326-331. 1948. 47.9 W898O

French summary.

19906 BARBOUR, E. A. Rearing system for battery replacements. *Poultry [London]* 103: 434. (To be cont.) Nov. 30, 1948. 47.8 P869

19907 BENOÎT, C. E. Préparons bien les dindes pour le marché. *Avic. Québécois* 3(11): 20. Nov. 1948. 47.8 Av55

Slaughtering.

19908 BIDMEAD, C. I believe in laying batteries. *Smallholder* 80(2018): 19. Dec. 3, 1948. 10 Sm1

19909 BISHOP, S. W. E. Eye-Sign and the formula of recognition. *Amer. Racing Pigeon News* 64(11): 9-12. Nov. 1948. 47.8 H75

19910 BISHOP, S. W. E. "Eye sign" & "type." *Amer. Racing Pigeon News* 64(12): 1-4. Dec. 1948. 47.8 H75



- 19911 BOLTER, L. Kreuz und quer durch die industrie-schau in Kopenhagen. Geflügelhof 11: 605-606. Sept. 24, 1948. 47.8 G276  
Poultry.
- 19912 BORREMANS, R. T. Dindes qui rapportent. Elevages Mod. 1948: 171, 173-174. Nov. 1948. 49 EL22
- 19913 BOTSFORD, H. E. Poultry flock management. N. Y. Agr. Col. Cornell Feed Serv. 21: 16-17. Nov. 1948. 275.29 N48Cf
- 19914 BROOMHEAD, R. Make a good job of your Christmas fowl. Poultry [London] 103: 474. Dec. 14, 1948. 47.8 P869  
Slaughtering.
- 19915 BROWN, L. R. Chickens—laboratory workers decide they are not always dumb clucks. Staley J. 32(6): 12-15. Dec. 1948. 309.8 St1
- 19916 BRUCE, W. H. Table poultry production in Australia. Poultry Farmer [Sydney] 16(21): 5-6. (Cont.) Nov. 20, 1948. 280.28 Or32
- 19917 BUDET DOMÍNGUEZ, A. La crianza de patos en la finca. Puerto Rico. Agr. Col. Ext. Spec. C. 7, rev., 8 p. July 1948. 275.29 P96Ce
- 19918 BURGOS, C. X. Home chicken units. Philippine Livestock Mag. 1: 18-21, 34. Nov. 1947. 49 P53
- 19919 BURGOS, C. X. Questions and answers on chicken raising. Philippine Livestock Mag. 2: 134-136, 146-149. Apr. 1948. 49 P53
- 19920 BUUS, S. Flock contests in Denmark. (In Danish.) World's Poultry Cong. Off. Rpt. 8: 427-432. 1948. 47.9 W898O  
English and French summaries.
- 19921 CANADA. DEPT. OF AGRICULTURE. PRODUCTION SERV. LIVESTOCK AND POULTRY DIV. The Canadian record of performance for standard bred poultry. Summary of record of performance and progeny testing for 1946-47. Annual report. Ottawa, 1948. 85 p. 47.9 C162C  
French summary.
- 19922 CARTWRIGHT, H. Are we "sexer-starved?" With efficiency as the keynote the suggestion is made here that tests should be instituted. Poultry World 83: 387. Dec. 3, 1948. 47.8 P8682
- 19923 CASA PACHECO, MARQUES DE. En defensa de una explotación del campo. Valencia Avíc. 5(4): 13-14. May 1948. 47.8 V23
- 19924 CERNY, G. Aus der gänsezucht. Siedler 3 (3): 3-4. Mar. 1948. 19 S11
- 19925 CLINE, L. E. Turkey meat produced more economically with large turkeys. Norbest Turkey News 13(5): 2-4, 7. Nov. 1948. 47.38 N75
- 19926 COUCHMAN, R. When to cull for greatest profit. Nulaid News 26(9): 6-7. Jan. 1949. 47.8 N917
- 19927 DANS, C. The prospect of raising turkey in the Philippines. II-III. Philippine Livestock Mag. 2: 94-95, 109-110, 131, 137. Feb./Mar.-Apr. 1948. 49 P53
- 19928 DANTE, J. A. N. La exposición avícola de Caucete (Provincia de San Juan). Rev. Mens. B. A. P. 31(371): 49-50. Oct. 1948. 9 R326
- 19929 DAVIDSEN, D. Poultry judging in Denmark. World's Poultry Cong. Off. Rpt. 8: 396-399. 1948. 47.9 W898O  
French summary.
- 19930 DENMARK. LANDBRUGSMINISTERIUM. Poultry farming and egg production in Denmark. Copenhagen, 1948. 29 p. 47 D41
- 19931 EGERRE. Hablamos de pavos? Valencia Avíc. 5(4): 21. May 1948. 47.8 V23
- 19932 EHRLICH, C. Warum legen die hühner schlecht? Landw. Wchnbl. f. Westfalen u. Lippe 105: 52-53. (To be cont.) Apr. 3, 1948. 18 L2346
- 19933 ELKINGTON, W. M. The first month of the new national test. Poultry Indus. 14(161): 16-18. Nov. 26, 1948. 47.8 P8644  
Laying tests in England.
- 19934 ENGLER, H. L'appréciation de la volaille de rapport en Suisse. World's Poultry Cong. Off. Rpt. 8: 389-396. 1948. 47.9 W898O  
English summary.
- 19935 ESLAVA, G. The President's poultry project. Philippine Livestock Mag. 2: 79-81, 108, 110. Feb./Mar. 1948. 49 P53  
Individual farms.
- 19936 FOSTER, C. Small-scale turkey-rearing activities. Poultry [London] 103: 357. Nov. 2, 1948. 47.8 P869
- 19937 GÁLLEGO PIEDRAHITA, J. Como forza la muda. Valencia Avíc. 5(7): 12-13. Aug. 1948. 47.8 V23
- 19938 GODFREY, A. B. Three-day-a-week-trap-nesting. U. S. Bur. Anim. Indus. A. H. D. 121, 6 p. Oct. 1948. 1.9 An52Ah
- 19939 HARDY, E. Homing pigeons can work for ships. Amer. Pigeon J. 37: 328. Dec. 1948. 47.8 Am35
- 19940 HEATH, H. S. Townsmen have a duty to help in the production of food. Smallholder 80(2016): 14-15. Nov. 19, 1948. 10 Sml  
Poultry raising in Great Britain.
- 19941 HENDERSON, E. W., and CHAMPION, L. R. Relationship between speed of hatching and growth rate of chicks. Mich. Agr. Expt. Sta. Q. B. 198-203. Nov. 1948. 100 M58S
- 19942 HOLLANDER, W. F. "Eye sign"—now you see it—now you don't. Amer. Racing Pigeon News 64(12): 5. Dec. 1948. 47.8 H75
- 19943 HOLLANDER, W. F. The Yeagley experiments. Amer. Racing Pigeon News 64(11): 1-3. Nov. 1948. 47.8 H75  
Homing pigeons.
- 19944 HOUT, F. VAN. A risk to be avoided; the injurious effect of moisture on poultry and the litter in the pen. (In Flemish.) Cult. en Handel 14: 794. Dec. 1948. 80 C892
- 19945 HOWES, H. Autumn hatching. Poultry [London] 103: 377. Nov. 9, 1948. 47.8 P869
- 19946 HOWES, H. Killing and preparing table poultry. Poultry [London] 103: 454. Dec. 7, 1948. 47.8 P869
- 19947 HOWES, H. More eggs from the breeding stock. Poultry [London] 103: 494. Dec. 21, 1948. 47.8 P869
- 19948 HUBER L., G. Diferentes tipos de crestas. Rev. Ganad. [Habana] 8(9): 48. Sept. 1948. 49 R321  
In poultry.
- 19949 IVES, P. P. Boston poultry show starts second century. Amer. Egg & Poultry Rev. 9(13): 14, 16. Dec. 1948. 47.8 Am38  
History of Boston Poultry Exposition, Inc.
- 19950 JAAP, R. G. How chickens grow. Poultry Tribune 55(1): 6, 17-18. Jan. 1949. 47.8 P8644
- 19951 JEREMY, E. Poultry health. Organic Farming Digest 1(5): 16-17. Apr./June 1947. 56.8 Or32
- 19952 JULL, M. A. Artificial lighting for increased profits in egg production. World's Poultry Sci. J. 4: 278-279. Oct./Dec. 1948. 47.9 W89
- 19953 JULL, M. A. Hatchability of eggs held in freezing temperatures. World's Poultry Sci. J. 4: 249. Oct./Dec. 1948. 47.9 W89
- 19954 KHATCHADOURIAN, L. DER. Problèmes de reconstitution de l'aviculture française. World's Poultry Cong. Off. Rpt. 8: 406-412. 1948. 47.9 W898O  
English summary.
- 19955 KLEB, K. Von der geflügelausstellung in Kopenhagen. Geflügelhof 11: 604-605. Sept. 24, 1948. 47.8 G276
- 19956 KLEIN, G. T. Good management and good feeding practice at this turkey farm. New England Homestead 121(21): 6. Nov. 13, 1948. 6 N442
- 19957 KOLÁČEK, S. The structure of agriculture and rearing of poultry in Czechoslovakia. World's Poultry Cong. Off. Rpt. 8: 399-402. 1948. 47.9 W898O  
French summary.
- 19958 KULL, K. E. The prevention and treatment of cannibalism and feather eating in fowls. World's Poultry Cong. Off. Rpt. 8: 124-125. 1948. 47.9 W898O  
French summary.
- 19959 KUMANOV, S. The influence of some factors upon the fertility and hatchability of hens' eggs. World's Poultry Cong. Off. Rpt. 8: 320-326. 1948. 47.9 W898O  
French summary.
- 19960 LEGENDRE, G. Quelle est la production rentable des poules? J. de la France Agr. 4: 978. Nov. 12/18, 1948. 14 J829
- 19961 LISSOT, G. Ouvrage en communication: Dictionnaire d'Aviculture, suivi d'un lexique avicole anglais-français. World's Poultry Cong. Off. Rpt. 8: 583-585. 1948. 47.9 W898O  
English summary.
- 19962 LIVET, L. La reprise de la ponte. Paysan 24(370): 8-9. Oct. 1948. 14 P29



- 19963 MCKINNEY, J. Grow turkeys. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(11): 22, 114. Nov. 1948. 6 So81
- 19964 MCPHERSON, J., and MORTON, H. Aiming at the consumer's preference in turkeys; radio interview. *Canad. Poultry Rev.* 72(12): 41-43. Dec. 1948. 47.8 C16
- 19965 MARSHALL, J. Second-year report from a DPK. *Poultry [London]* 103: 356. Nov. 2, 1948. 47.8 P869
- 19966 MEYERS, L. D. Sanitation affects quality and profits. *U. S. Egg & Poultry Mag.* 55(1): 12-13, 29. Jan. 1949. 286.85 Eg3  
In poultry raising.
- 19967 MIGUEL, M. Nociones de estadística aplicada a la avicultura. *Valencia Avic.* 5(8): 20-21. (To be cont.) Sept. 1948. 47.8 V23
- 19968 MILLER, J. P. Plan your brooding. *Wash-coegg* 26(7): 5, 28. Dec. 1948. 47.8 W27
- 19969 MONTMAGNY, C. DE. Tiendrez-vous des canes ou des poules pour la ponte? *Vie à la Campagne* 37: 329-330, 332. Nov. 1948. 80 V67
- 19970 MOORE, A. C. Don't be caught when the weather changes. *Poultry [London]* 103: 432. Nov. 30, 1948. 47.8 P869
- 19971 MOORE, A. C. More air needed when hatching turkey eggs. *Poultry [London]* 103: 330. Oct. 26, 1948. 47.8 P869
- 19972 MOORE, H. L. The use of deep litter in the poultry house. *Southeast. Poultryman* 1(4): 8. Oct. 1948. 47.8 So872
- 19973 MOREJÓN PUIG, L. F. Elementos de avicultura. *Cuba. Dir. de Ganad. B. del Agr. Práct. Ser. de Indus. Anim.* 13, 68 p. Habana, 1947. 41.9 C89
- 19974 PONSIGNON, A. Pour assurer un rythme de ponte régulier. *Vie à la Campagne* 37: 299. Oct. 1948. 80 V67
- 19975 POTRATZ, M. B. Why I like the hen. (Excerpt.) *Canada Poultryman* 35(11): 23. Nov. 1948. 47.8 C166
- 19976 POWELL-OWEN, W. Hatching in early January. Cold spells may disrupt the schedule, so a few forward batches of chicks are the breeder's best insurance. *Poultry World* 83: 386. Dec. 3, 1948. 47.8 P8682
- 19977 PULGAR, J. 300 huevos por año. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 39(179): 15, 20. July/Aug. 1948. 8 R323
- 19978 RAIMO, H. F. Make money raising poultry. Litter for the birds. (In Portuguese.) *Rev. dos Criadores* 19(2): 89-90. Feb. 1948. 43.8 R32
- 19979 RAIMO, H. F. Turkeys as meat producers. Standards of live-weight gain. (In Portuguese.) *Rev. dos Criadores* 19(3): 77-78. Aug. 1948. 43.8 R32
- 19980 REBER, N. F. Early turkeys at Laurel Hill. *Pa. Farmer* 139: 265. Nov. 13, 1948. 6 P383  
Management.
- 19981 RHEINGANTZ, O. L. O. Better hens, more eggs and more money! (In Portuguese.) *Granja [Porto Alegre]* 3(35): 54-55. (Cont.) Aug. 1948. 9.2 G76
- 19982 ROCASOLANO, C. Técnica y experiencia. *Cult. Mod.* 31: 367-368. Oct. 1948. 15 C89  
Poultry raising.
- 19983 ROMANOFF, A. L. Recent progress in artificial incubation. *World's Poultry Cong. Off. Rpt.* 8: 43-59. Ref. 1948. 47.9 W8980  
French summary.
- 19984 RÖMER, R. R. Die bedeutung verschiedener schlupfzeiten bei hühnern. *Saat u. Ernte* 3(1): 10. Jan. 1948. 18 Sa12  
Egg production.
- 19985 RÖMER, R. R., and PARET, L. Gänse und enten. *Ludwigsburg, Ulmer*, 1948. 96 p. (Geflügelzucht Bücherei. 6) 47.1 R66
- 19986 RÖMER, R. R. Ist die entenhaltung auf fischteichen nachteilig? *Land, Wald u. Garten* 2: 364-365. Dec. 1947. 18 L22
- 19987 ROOME, C. A. Turkeys and geese. *Farmer & Stock-Breeder* 62: 2859. Dec. 7, 1948. 10 F228
- 19988 ROSCOE, C. Duck sounds have a meaning. *Poultry [London]* 103: 418. Nov. 23, 1948. 47.8 P869
- 19989 ROSCOE, C. Get on friendly terms with your ducks. *Poultry [London]* 103: 334. Oct. 26, 1948. 47.8 P869
- 19990 ROSCOE, C. May-hatched ducks should now be in lay. *Poultry [London]* 103: 376. Nov. 9, 1948. 47.8 P869
- 19991 RUMBALL, P. Poultry and egg production. *Queensland Agr. J.* 67: 178-180. Sept. 1948. 23 Q33
- 19992 SHAW, P. The Copenhagen Congress, 1948. Accredited Poultry Breeders' Fed. Eng. & Wales. *News Serv.* 1948(13): 10-11. Autumn 1948. 47.8 Ac2  
Eighth World's Poultry Congress.
- 19993 SMITH, E. Y. Why hold turkey shows? *Turkey World* 23(12): 22, 93-95. Dec. 1948. 47.38 T84
- 19994 SOLOMON, H. Sexing has come to stay. *S. A. P. A. Poultry B.* 12(133): 7, 15. Oct. 1948. 47.8 So89
- 19995 SPENCER, G. W. Talking turkey. *Young Farmer* 16: 183-184. Nov./Dec. 1948. 10 Y8
- 19996 STAFFE, A., and EBBELL, H. On the influence of several environment factors on laying capacity, hatching, brooding, growth and moulting. *World's Poultry Cong. Off. Rpt.* 8: 142-147. Ref. 1948. 47.9 W8980  
French summary.  
Light, temperature, climate, altitude, etc.
- 19997 SVOZIL, E. Poultry-rearing on pastures. *World's Poultry Cong. Off. Rpt.* 8: 440-445. 1948. 47.9 W8980  
French summary.  
Czechoslovakia.
- 19998 TIFFANY, J. O. Turkeys and good farm living. *Washcoegg* 26(7): 8, 29. Dec. 1948. 47.8 W27
- 19999 TORRES L. DE HARO, C. Hacemos avicultura? *Valencia Avic.* 5(8): 16-17. (To be cont.) Sept. 1948. 47.8 V23
- 20000 U. S. BUR. OF ANIMAL INDUSTRY. Directory of U.S.R.O.P. breeders qualifying for the U. S. Register of Merit breeding stage, 1946-1947. *U. S. Bur. Anim. Indus. A. H. D.* 122, 21 p. Oct. 1948. 1.9 An52Ah  
National Poultry Improvement Plan.
- 20001 U. S. BUR. OF ANIMAL INDUSTRY. The National Poultry Improvement Plan. *U. S. D. A. Misc. P.* 300, rev., 33 p. June 1948. 1 Ag84M
- 20002 URQUHART, P. J. Fancy pigeons in South Africa. *Amer. Pigeon J.* 37: 326. Dec. 1948. 47.8 Am35
- 20003 VAN GINK, C. S. T. Fancy pigeons and shows in Holland. *Amer. Pigeon J.* 37: 260. Oct. 1948. 47.8 Am35
- 20004 WAROQUIEZ, P. Le role des concours de ponte. *World's Poultry Cong. Off. Rpt.* 8: 433-437. 1948. 47.9 W8980  
English summary.
- 20005 WARREN, D. C. The laying hen's response to seasonal fluctuations in her environment. *World's Poultry Cong. Off. Rpt.* 8: 147-151. 1948. 47.9 W8980  
French summary.
- 20006 WASHINGTON STATE COLLEGE. POULTRY COUNCIL. Turkey problem chart with suggestions for prevention and treatment. *Turkey World* 24(1): 20-21. Jan. 1949. 47.38 T84  
Nutrition, care and diseases.
- 20007 WENGER, G. Das Pestalozzi-kinderdorf in Trogen erhielt einen geflügelhof. *Geflügelhof* 11: 408-409. July 2, 1948. 47.8 G276
- 20008 WILLIAMS, A. D. Last to lay; there's a reason for delayed production. *Poultry World* 83: 370. Nov. 26, 1948. 47.8 P8682

## RABBITS

## Breeds and Breeding

- 20009 ANDERSON, H. 300 Jahre kaninchenzucht in Deutschland. *Kleintier-Zücht Tierbörse* 2(35/36): 7-8. May 10/25, 1948. 49 K672
- 20010 BAKER, G. F. Get rid of the gadgets; how the breeding of Rex rabbits can be simplified. *Fur & Feather* 111: 525. Oct. 22, 1948. 49 F96
- 20011 BELLAMY, A. E. Inheritance of woolly in rabbits. *Calif. Rabbit News* 9(8): 6. Nov. 1948. 40.28 C12
- 20012 DESCHIENS, R. Sur deux cas d'acariase pulmonaire du singe et du lapin. (Sum.) *Soc. de Path. Exot. B.* 41: 505. 1948. 448.9 So13  
Discussion, p. 505-506.
- 20013 FORBUSH, K. A beginner purchases Flemish. *Small Stock Mag.* 33(1): 20-21. Jan. 1949. 48.8 P442
- 20014 GILLIARD, S. One excels in coat, another excels in colour; which is the better Smoke Pearl? *Fur & Feather* 3: 504. Oct. 8, 1948. 49 F96  
Rabbits.



- 20015 HOULDSON, E. Checkered Giants for meat. Amer. Small Stock Farmer 33(2): 16. Nov. 1948. 48.8 J82
- 20016 HOWDEN, A. S. The glory of the Tan has not departed. Fur & Feather 111: 527. Oct. 22, 1948. 49 F96
- 20017 JUDE, A. C. Master the urge for something new with the desire for something better. Fur & Feather 111: 530. Oct. 22, 1948. 49 F96
- Breeding rabbits.
- 20018 KOBOLD, J. Etwas vom Thüringer-Kaninchen. Kleintier-Zücht. Tierbörse 2(38): 5. June 25, 1948. 49 K672
- 20019 LIKERMAN, J. E. Razas de conejos: el Gigante de Flandes. Campo y Suelo Argentino 32(384): 60-61. Oct. 1948. 9 C15
- 20020 NESTMANN, A. Ein guter woll-lieferant. Land u. Frau 28(5): 7. Sept. 4, 1948. 18 D482L
- Angora rabbits.
- 20021 ROBINSON, R. Genetics: the Satin mutation. Fur & Feather 111: 571. Nov. 12, 1948. 49 F96
- Rabbits.
- 20022 ROF CODINA, J. El conejo Angora. Cult. Mod. 31: 380-382. Oct. 1948. 15 C89
- 20023 RÖMPERT, Das Marburger fehkaninchen und seine zucht. Kleintier-Zücht. Tierbörse 2(38): 4-5. June 25, 1948. 49 K672
- 20024 SAINT-OLLIER, Le fauve de Bourgogne. Rustica 21: 841. Nov. 28, 1948. 14 R92
- 20025 SANDERSON, A. Experiments in breeding English rabbits. Fur & Feather 111: 439. Sept. 3, 1948. 49 F96
- 20026 SAWIN, P. B. Fostering in a breed improvement program. Rabbit Raiser 4(4): 21-22. Dec. 1948. 40.28 R11
- 20027 SHUPE, R. C. Notes on the Silver Marten. All-Pets Mag. 19(11): 62. Nov. 1948. 48.8 AL5
- 20028 SHUPE, R. C. Rabbits. Silver Marten standards. All-Pets Mag. 19(12): 73-74. Dec. 1948. 48.8 AL5
- 20029 VICKREY, K. C. It is so unnecessary. Calif. Rabbit News 9(8): 8-9. Nov. 1948. 40.28 C12
- Breeding does.
- 20030 WATSON, A. History of the Silver fancy. Fur & Feather 111: 600. (Cont.) Nov. 26, 1948. 49 F96
- Rabbits.
- 20031 WATSON, A. Silvers of yesterday and to-day. 1. Old-time practices which might well be revived. Fur & Feather 111: 455, 457. Sept. 10, 1948. 49 F96
- Rabbits.
- 20032 WILMANN, W. Judging Checkered Giants. Small Stock Mag. 33(1): 21. Jan. 1949. 48.8 P442

#### Feeds and Feeding

- 20033 COUCH, V. M. Feed and water for small animals. Calif. Rabbit News 9(8): 4. Nov. 1948. 40.28 C12
- 20034 DEAN, A. L. Mineral matter very necessary for rabbits. Angora Rabbit Mag. 4(5): 1. Dec. 1948. 40.28 An42
- 20035 KUNKEL, H. O., and PEARSON, P. B. Magnesium in the nutrition of the rabbit. J. Nutr. 36: 657-666. Ref. Dec. 10, 1948. 389.8 J82
- 20036 TEMPLETON, G. S. Feeding a herd of rabbits. Small Stock Mag. 33(1): 3, 40. Jan. 1949. 48.8 P442

#### Veterinary Medicine

- 20037 AJELLO, P. Observations on pseudopregnancy [in rabbits]. (In Italian.) (Abs.) Zootec. e Vet. 3(6): 14. June 1948. 41.8 Z7
- 20038 BERDE, B., and TAKACS, L. Heat tolerance of castrated male rabbits. Z. f. Vitamin-, Hormon- u. Fermentforschung 2(1/2): 23-25. 1948/49. 384 Z324
- Summary in English, French, and German.
- 20039 BIELING, R., and OELRICHS, L. Experimentelle untersuchungen über die infektion mit Rickettsia quintana (pediculi). Ztschr. f. Hyg. u. Infektionskrank. 127(1/2): 41-53. 1947. 449.8 Z3
- Rabbits.
- 20040 BIELING, R., and OELRICHS, L. Untersuchungen über die fleckfieberinfektion beim kaninchen. Ztschr. f. Hyg. u. Infektionskrank. 127(1/2): 13-40. 1947. 449.8 Z3

- 20041 BROCHART, M. Les maladies des lapins. Terre 214: 3. Nov. 18/24, 1948. 281.8 T27
- 20042 BUIS, R. Les affections à "gros ventre" chez le lapin. Réveil Agr. 57: 361-362. (To be cont.) Dec. 1, 1948. 14 R322
- Coccidiosis.
- 20043 BUIS, R. Le coryza du lapin. Réveil Agr. 57: 297-298. (Cont.) Oct. 1, 1948. 14 R322
- 20044 FRÖLICH, A., and VENGE, O. Semen production in different breeds of rabbit. Acta Agr. Suecana 3: 83-88. 1948. 11 Ac8
- 20045 FROLICH, A. Some factors affecting semen production in rabbits. (Abs.) Zootec. e Vet. 3(6): 4. June 1948. 41.8 Z7
- 20046 MCNEIL, C. Cellular changes in rabbits during antibody formation. I. Response to Eberthella [i. e. Salmonella] typhosa. Amer. J. Path. 24: 1271-1283. Ref. Nov. 1948. 448.8 Am39
- 20047 PEARCE, L., and BROWN, W. H. Hereditary osteopetrosis of the rabbit. I-II. J. Expt. Med. 88: 579-595, 597-619. Ref. Dec. 1, 1948. 448.8 J822
- I. General features and course of disease; genetic aspects. II. X-ray, hematologic, and chemical observations.
- 20048 TEMPLETON, G. S. Gestation period in domestic rabbits. Calif. Rabbit News 9(9): 7. Dec. 1948. 40.28 C12
- 20049 VANDEL, C. Cuniculteurs. Attention à la tularémie. Avic. Bass-Cour 4: 61. 1948. 47.8 Av53

#### Miscellaneous

- 20050 GOUJON, F. Un animal qui se revalorise: le lapin; les soins, aliments, logement sont à la base du succès. Vie Agr. 3(95): 10. Sept. 11/18, 1947. 14 V673
- 20051 HORN, J. F. What price shows? Small Stock Mag. 33(1): 16. Jan. 1949. 48.8 P442
- Rabbit shows.
- 20052 NEUBAUER, E. Kaninchenzuchtvereine im dienste der aufklärung. Kleintier-Zücht. Tierbörse 2(38): 5-6. June 25, 1948. 49 K672
- 20053 NEW ZEALAND. DEPT. OF AGRICULTURE. LIVESTOCK DIV. The rabbit pest and its control. New Zeal. Dept. Agr. B. 284, 12 p. 1947. 23 N48Bu
- 20054 TEMPLETON, G. S. Fostering young rabbits. Amer. Small Stock Farmer 33(3): 25. Dec. 1948. 48.8 J82
- 20055 TUASON, A., and BURGOS, C. X. Rabbits. Philippine Livestock Mag. 2: 114-116, 137. Apr. 1948. 49 P53
- 20056 WOODGATE, F. G. How to handle a rabbit. Fur & Feather 111: 527. Oct. 22, 1948. 49 F96

#### SHEEP AND GOATS

##### Breeds and Breeding

- 20057 ALBORNOZ BUSTAMANTE, A. Primera experiencia de inseminación artificial de ovinos en Magallanes (Chile 1947). (Abs.) Zootec. e Vet. 3(6): 65. June 1948. 41.8 Z7
- 20058 AMSCHLER, J. W. Ausrichtung der österreichischen schafzucht. Burgenland. Bauernbündler 1(20): 6-7. Oct. 1948. 19 B91
- 20059 BLAETTNER, E. We expect everything. Sheepman 19: 326. Dec. 1948. 45.8 Sh32
- Sheep breeding.
- 20060 BLANK, G. Commercial sheepmen want good rams. Sheepman 19: 286. Dec. 1948. 45.8 Sh32
- 20061 CALVO, C. A. El Corriedale, una raza de doble propósito. Bolsa de Com. Rosario. Rev. 36(882): 3-4. Oct. 15, 1948. 287 R71
- 20062 COOK, O. M. Karakul data from here and there. Fur Farming J. 2(1): 17, 18. July/Aug. 1948. 45.8 K142
- 20063 CRÉPIN, P. La race caprine des Pyrénées. Les cornes de la chèvre alpine. Mouton 3: 103-104. Oct. 1948. 45.8 M86
- 20064 DOEHNER, H. Die zusammensetzung des schafkörpers unter berücksichtigung der schlachtwertklassen des Merinofleischschafes. Züchtungskunde 20: 15-25. Apr. 1948. 49 Z8
- 20065 ESPLIN, A. C. Dry ewe problem studied—more lambs mean added profits. Sheep & Goat Raiser 29(3): 60-63. Dec. 1948. 45.8 Sh3
- Feeding.



20066 GARRAY, M. Del ganado Karakul. Balearic Isl. Diputación Prov. B. de Agr. 46: 6-7; 47: 8-10. July-Aug. 1948. 15 B19

20067 LEEDS. UNIVERSITY. Fat lamb production; further sheep crossing experiments conducted at Skipton and Askham Bryan, Yorkshire, 1933-1943; experiments with Swaledale ewes and first cross ewes out of Swaledales. Univ. Leeds and Yorkshire Council Agr. Ed. P. 211, 68 p. 1948. 103 Y8G

Yorkshire Council for Agricultural Education, joint author.

20068 LOPEZ ARIAS, A. Elección de un reproductor ovino. Campo y Suelo Argentino 32(384): 16-17. Oct. 1948. 9 C15

20069 MADSEN, L. L., and others. Improvement of range sheep for lamb and wool production. Farm & Home Sci. [Utah Sta.] 9(4): 6-7. Dec. 1948. 100 UtlF  
T. D. Bell, M. A. Madsen, and J. A. Bennett, joint authors.

Breeds and breeding.

20070 MAULE, J. P. The breeding and management of tethered goats. Cyprus. Dept. Agr. Leaflet (Ed. Ser.) 26, 5 p. 1948. 21 C99Le

20071 MORELL, G. Les moutons algériens: origines raciales, avenir. Voix des Colons 30(1477): 1, 3. Nov. 8, 1948. 24 V85

20072 ORCUTT, E. P. Experiment station will test stud rams. Mont. Wool Grower 23(1): 18. Jan. 1949. 45.8 M762

20073 OXFORD DOWN SHEEP BREEDERS' ASSOCIATION. The flock book of the Oxford Down sheep. v. 60, 132 p. Oxford, Oxonian Press, 1948. 45.9 Ox2F

20074 PREVOST, C. A., III. Black-faced Bushburner (A fanciful future—as forecast by North Carolina breeder's ramblings on Hampshire type). Sheepman 19: 341, 344. Dec. 1948. 45.8 Sh32

20075 PREVOSTEAU, G. L'adaptation française du mouton Southdown. Mouton 3: 97-98. Oct. 1948. 45.8 M86

20076 RODRÍGUEZ, J. Selección de ganado lanar al alcance de todos. Hermandad 2(49): 7. Oct. 9, 1948. 280.28 H42

20077 RONNA, A. "Fantastic" hybrids. Ram x sow. (In Portuguese.) Criação e Vet. 2: 181-182. Sept. 1947. 49 C86

20078 SHERWOOD, A. The history of the Norskas in America. Better Goatkeeping 4: 834-835. Dec. 1948. 40.18 B46

20079 TEODORANUM, N. Recherches comparatives sur le développement du corps et de la laine chez le foetus de races: Tzigaia blanche (bucalae) et Mérinos. Contribution de la race Tzigaia à l'origine de la race Mérinos. (Abs.) Zootec. e Vet. 3(6): 28. June 1948. 41.8 Z7

20080 UNDERWOOD, E. J., and others. Studies in sheep husbandry in Western Australia. West. Austral. Dept. Agr. Leaflet 917, 49 p. Perth, 1948. 23 W52B  
Contents: I. The effect of nutritional "flushing" upon fertility, by E. J. Underwood and F. L. Shier. p. 3-12. Ref. II. The influence of feeding during late pregnancy on the birth-weight, growth rate, and quality of the lamb, by E. J. Underwood and F. L. Shier. p. 13-23. Ref. III. Attempts to influence artificially the breeding season of British breed ewes, by E. J. Underwood and F. L. Shier. p. 25-30. Ref. IV. The influence of a high level of prenatal feeding in lamb production, by E. J. Underwood, F. L. Shier, and H. G. Cariss. p. 31-40. Ref. V. The breeding season of Merino, crossbred and British bred ewes in the agricultural districts, by E. J. Underwood, F. L. Shier, and N. Davenport. p. 41-49.

20081 VILLEGAS, V. The breeding habits of sheep and goats under Philippine conditions. (Abs.) Zootec. e Vet. 3(6): 39-40. June 1948. 41.8 Z7

#### Feeds and Feeding

20082 BLIN, H. Les marrons d'Inde dans l'alimentation des moutons. Mouton 3: 107. Oct. 1948. 45.8 M86

20083 BURKITT, W. H. Supplemental mineral requirements for wintering ewes. Mont. Wool Grower 23(1): 13, 55. Jan. 1949. 45.8 M762

20084 DINNING, J. S., GALLUP, W. D., and BRIGGS, H. M. Nitrogen balance with sheep on rations containing urea. Okla. Acad. Sci. Proc. 28: 101-102. 1948. 500 Ok42

20085 ESPLIN, A. L., CONNELL, W. E., and WHEELER, S. S. Feeding beet by-products and dehydrated alfalfa to lambs. Natl. Wool Grower 38(12): 26-27. Dec. 1948. 45.8 N21N

20086 GILCH. Sonnenblumen als ziegenfutter. Kleintier-Zücht. Tierbörse 2(35/36): 10. May 10/25, 1948. 49 K672

20087 HUGO, W. J. Feeding and wool growth. (In Afrikaans.) Wolboer 1948(15): 16-17. Oct. 1948. 45.8 W83

20088 MORRIS, W. E. Graining lambs in August pays off. Hormel Farmer 11(12): 6. Aug. 1948. 49 H782  
Grain feeding.

20089 MOULE, G. R. Copper deficiency of sheep in Queensland. Queensland Agr.-J. 67: 157-164. Sept. 1948. 23 Q33

20090 TUSTIN, E. B., JR. Salt and profitable sheep raising. New England Homestead 121(23): 16. Dec. 11, 1948. 6 N442

20091 U. S. PLANT, SOIL AND NUTRITION LABORATORY. Directions for use of cobalt for sheep and cattle. n. p., 1948? 1 p. 1.98 O62

20092 VAN HORN, J. L., and WILLSON, F. S. Protein levels for wintering range ewes. Mont. Wool Grower 23(1): 22, 65. Jan. 1949. 45.8 M762

20093 WILLSON, F. S., and BURKITT, W. H. Wood sugar molasses for lambs and steers. Mont. Stock-grower 20(12): 6. Dec. 15, 1948. 49 M76

Also in Mont. Wool Grower 23(1): 43. Jan. 1949. 45.8 M762

20094 WILSON, J. W., JOHNSON, L. E., and WRIGHT, T. Feeds for wintering bred ewes in South Dakota. S. Dak. Agr. Expt. Sta. B. 388, 8 p. Apr. 1948. 100 So82

#### Veterinary Medicine

20095 BAILEY, J. W. Watch those ewes. Sheepman 19: 302, 318. Dec. 1948. 45.8 Sh32  
Pregnancy disease.

20096 BAUER, K. Nochmals: die leberegelseuche der schafe. Süddeut. Schäferzeitg. 38: 85. June 12, 1948. 45.8 Su2

20097 BORGATTI, G. On the reflex nature of the rhythmic activity of the reticulum. (In Italian.) Nuova Vet. 24: 256-258. Aug. 1948. 41.8 N922  
Experiments with lambs.

20098 BORGATTI, G., and FIORI, W. The reticulum as an organ endowed with automatism. (In Italian.) Nuova Vet. 24: 270-273. Aug. 1948. 41.8 N922  
Observations on lambs.

20099 CHENG, C. T. A hematological study of some diseases of new-born lambs. J. Anim. Husb. & Vet. Med. 6(8/9): 1-18. Ref. Sept. 1947. 41.8 J827

20100 DOLDER, W., and LEUENBERGER, M. Quelques considérations sur une grave épizootie chez les moutons (pasteurellose). Schweiz. Arch. f. Tierheilk. 90: 656-661. Nov. 1948. 41.8 Sch9

20101 FORTE JÚNIOR, M. DA. C. B. A sarcoma in the heart of a sheep. (In Portuguese.) Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab. 6: 373-377. Ref. 1947. 41.9 L68  
French, English, and German summaries.

20102 GRAY, F. V. The absorption of volatile fatty acids from the rumen. II. The influence of  $\text{pH}$  on absorption. J. Expt. Biol. 25: 135-144. June 1948. 442.8 B77  
Experiments with sheep.

20103 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Braxy. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 3, 1 p. July 1948. 41.9 G792A  
Bradsot disease of sheep.

20104 INVESTIGATIONS into the etiology and control of enzootic (toxaemic) jaundice of sheep. Austral. Vet. J. 24: 272-281. Oct. 1948. 41.8 Au72

20105 KAMMLADE, W. G. Growth—the measure of success in lamb raising. Sheep & Goat Raiser 29(3): 58-59. Dec. 1948. 45.8 Sh3

20106 KWONG, F. J. Infectious pleuropneumonia of goats in the northwest of China. (In Chinese.) J. Anim. Husb. & Vet. Med. 6(5/7): 12-17. July 1947. 41.8 J827  
English summary.

20107 LACEY, J. J. Nodular disease [in sheep] causes losses. Wool News 14(5): 8. Dec. 1948. 280.28 W882



20108 LALL, H. K., SINGH, G., and SINGH, J. An outbreak of goat-pox in Hissar District (Punjab). *Indian J. Vet. Sci. & Anim. Husb.* 17: 243-246. Ref. Dec. 1947. 41.8 In22

20109 LALL, H. K. Some observations on the immunization of sheep and goats against rinderpest. *Indian J. Vet. Sci. & Anim. Husb.* 17: 11-22. Ref. Mar. 1947. 41.8 In22

20110 MARSH, H. Poisonous plants on the range. *Mont. Wool Grower* 23(1): 26, 59-61. Jan. 1949. 45.8 M762

20111 MARSTON, H. R. Energy transactions in the sheep. I. The basal heat production and heat increment. *Austral. J. Sci. Res. Ser. B. Biol. Sci.* 1: 93-129. Ref. Feb. 1948. 442.8 Au72

20112 PETISCA, J. L. N. Concerning a primary adenocarcinoma in the kidney of a sheep. (In Portuguese.) *Lab. Cent. de Patol. Vet., Lisbon. Repositório de Trab.* 6: 357-360. Ref. 1947. 41.9 L68

French, English, and German summaries.

20113 PILGRIM, A. F. The production of methane and hydrogen by the sheep. *Austral. J. Sci. Res. Ser. B. Biol. Sci.* 1: 130-138. Ref. Feb. 1948. 442.8 Au72

20114 POND, MRS. I. C. Cocoa proves effective in control of scours. *Dairy Goat J.* 27(1): 11. Jan. 1949. 40.18 M592

20115 ROTHSCCHILD, LORD M. G. An electrical method of measuring ram sperm activity. (Abs.) *Zootec. e Vet.* 3(6): 8. June 1948. 41.8 Z7

20116 SANDERSON, C. J. How to diagnose and treat milk fever in ewes. *Land [Sydney]* 1940: 18. Oct. 29, 1948. 23 L22

20117 SHIRLAW, J. F., and SANKARNARAYAN, N. S. Conjunctivitis of sheep and goats in India. *Indian J. Vet. Sci. & Anim. Husb.* 17: 69-73. June 1947. 41.8 In22

20118 SU, S. C. Pseudotuberculosis of goats and its causative organism [*Corynebacterium pseudotuberculosis*]. (In Chinese.) *J. Anim. Husb. & Vet. Med.* 6(5/7): 1-5. July 1947. 41.8 J827

English summary.

20119 THÉRET, M. Une mutation léthale récessive chez le mouton (micrognathie et imperforation buccopharyngienne). *Rec. de Méd. Vét.* 124: 445-457. Ref. Oct. 1948. 41.8 R24

20120 TOOP, C. R. Contagious ophthalmia (pink eye) of sheep. *West. Austral. Dept. Agr. Leaflet* 883, 6 p. Perth, 1947. 23 W52B

#### Miscellaneous

20121 ANDERSSON, B. Sheep farming at Bollnerup. (In Swedish.) *Lantmannen* 32: 846. Dec. 18, 1948. 11 L234

20122 BECK, W. J. Oklahoma 4-H sheep club manual. *Okla. Agr. Col. Ext. C.* 468, 20 p. 1948? 275.29 Ok41C

20123 BLIN, H. En cas de défaillance ou de mortalité de la brebis donnez à l'agneau une mère adoptive. *Rustica* 21: 841. Nov. 28, 1948. 14 R92

20124 BRAME, MRS. R. H. The family goat. *Amer. Dairy Goat News* 10(7): 15. Jan. 1949. 40.18 Am34

20125 CAYSSIALS, A. A. Selección y factores a tener en cuenta en la crianza ovina del Uruguay. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 234: 9; 243: 13. Sept. 2, Nov. 4, 1948. 9.9 G15B

20126 CERNY, G. Pflege der tragenden ziele. *Siedler* 3(10): 5. Oct. 1948. 19 S11

20127 CERNY, G. Die ziele in der tragzeit. *Nach der Arbeit* 21: 7. Oct. 12, 1948. 80 N11

20128 COOK, O. M. Goats are over the "joke" hurdle. *Fur Farming J.* 2(1): 11. July/Aug. 1948. 45.8 K142

20129 COUCH, V. M. Prepare for winter care. *Sheepman* 19: 340. Dec. 1948. 45.8 Sh32

20130 CRAM, B. La production de viande de mouton. *Unité Paysanne* 3(159): 2. (To be cont.) Nov. 20, 1948. 14 Un3

20131 FELLHAUER, T., and DAHLQUIST, N. Raising your 4-H orphan lamb. *Wyo. Agr. Col. Ext. C.* 102, 17 p. June 1948. 275.29 W99C

20132 HEYER, F. Schafhaltung. *Bauern-Jahrb.* 1948: 45-48. 18 B322

20133 HORLACHER, L. J. Some profit in production of spring lambs. *Sheep & Goat Raiser* 29(3): 42-43. Dec. 1948. 45.8 Sh3

Raising lambs for meat in Kentucky.

20134 HOUT, F. VAN. Practical observations on judging goats; conclusive selection factors. (In Flemish.) *Cult. en Handel* 14: 792-793. Dec. 1948. 80 C892

20135 HUGHES, G. C. Wool on Montana ranches. *Mont. Wool Grower* 23(1): 36-37. Jan. 1949. 45.8 M762

Raising sheep for quality wool.

20136 JONES, J. M. Your oldest national livestock organization. *Sheep & Goat Raiser* 29(3): 20-21, 57. Dec. 1948. 45.8 Sh3

National Wool Growers Assoc.

20137 LEACH, C. E. Full milk production comes when does have good care. *Dairy Goat J.* 27(1): 5. Jan. 1949. 40.18 M592

20138 MACKENZIE, A. I. Sheep farming in South Africa. *Natl. Wool Grower* 38(12): 28-30. Dec. 1948. 45.8 N21N

20139 MAYER, E. S. Sheep ranching in Texas. *Sheep & Goat Raiser* 29(3): 38-40, 54-55. Dec. 1948. 45.8 Sh3

20140 MILLER, R. C. Lambing time is just ahead. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 63(11): 19, 117. Nov. 1948. 6 P945K

Management of ewes.

20141 NIELEBOCK, E. W. Pflege u. behandlung von milchschaf-jungtieren. *Kleintier-Zücht. Tierbörse* 2 (35/36): 10. May 10/25, 1948. 49 K672

20142 NORDBY, J. E. Science as a means of sheep improvement. *Mont. Wool Grower* 23(1): 17, 64. Jan. 1949. 45.8 M762

20143 PROULX, J. R. Quelques conseils d'actualité à l'éleveur de moutons. *Terre de Chez Nous* 21(3): 8, 18. Oct. 13, 1948. 7 T27

20144 RENOM, J. A. Explotación de los ovinos; la producción de corderos gordos; tipo exportación al Reino Unido. *Pampa Argentina* 22(255): 11. Nov. 1948. 9 P19

20145 REY DE CASTRO, A. Crianza de cabras lecheras finas. *Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 14: 46-47. July 1948. 9.8 P4352

20146 ROSE, P. D. Sheep on the dairy farm. (In Afrikaans.) *Landbouweekblad* 30(1531): 43. Nov. 17, 1948. 24 L232

20147 SAATHOFF. Über ziegenhaltung und ziegenkrankheiten. *Landwirtschaftsblatt Weser-Ems* 95: 242-243. Nov. 15, 1948. 18 L2345

20148 SCRUGGS, C. G. Sheep money depends on management. *Prog. Farmer, Tex. Ed.* 63(11): 19. Nov. 1948. 6 T311

20149 SÖLCH, W. Ist schafmilchgewinnung wirtschaftlich? *Süddeut. Schäfereiztg.* 38: 85-86. June 12, 1948. 45.8 Su2

20150 WILSON, J. F. Wilson discusses sheep research findings. *Sheep & Goat Raiser* 29(3): 64, 66. (Cont.) Dec. 1948. 45.8 Sh3

20151 ZEEB, R. Milchschafe in der bäuerlichen stiedlung. *Unser Hof* 1948: 110-112. 18 Un72

#### SWINE

##### Breeds and Breeding

20152 ALEXANDROWICZ, S. Short Eared pig breed and its significance in this country. (In Polish.) *Przegl. Hodowlany* 16: 140-146. June 1948. 49 P952

English summary.

20153 BELTRÁN, D. J. M. Razas porcinas. *Nuestros Amigos* 5(51): 14-15. (To be cont.) Aug. 1948. 48.8 N88

20154 BLIN, H. Les qualités du porc Large White Yorkshire font sa renommée mondiale. *Rustica* 21: 861. Dec. 5, 1948. 14 R92

20155 GIFFORD, C. Are the Minnesota inbreds a farmers' hog? *Farm J.* 72(11): 27. Nov. 1948. 6 F2212

20156 HAMILTON, L. H. Solving the pig puzzle. *Macdonald Col. J.* 9(3): 4, 6. Nov. 1948. 101 M144

Differences in grades in Canada due to system of breeding.

20157 HAZEL, L. N., and LUSH, J. L. La generación interconsanguínea de los cerdos. *Agrotecnia* 2: 659-668. Aug./Sept. 1948. 8 Ag825

20158 HOLST, S. Sterility in boars. (Abs.) *Zootec. e Vet.* 3(6): 56. June 1948. 41.8 Z7



20159 KEESTRA, J. Pig breeding in Friesland. (In Friesian.) Friesch Landboublad 45(44): 7. Oct. 29, 1948. 12 F91

20160 OSPINA O., G. Selección de cerdos reproductores. Campo [La Paz] 2(18): 106-109. Oct. 1948. 9.1 C15

20161 PLAGER, C. It's the carcass that counts; long barrows outfigure short ones in national carcass contest. Nebr. Farmer 90(23): 40-41. Dec. 4, 1948. 6 N27

20162 SWAIN, J. B. The U. S. "tailor-made" pig. Farmer & Stock-Breeder 62: 2412. Oct. 19, 1948. 10 F228

Minnesota No. 1.

20163 VEZZANI, V., and RAIMONDI, R. The control of reproductive aptitudes in swine. Applications and results at the Swine Experimental Center at Turin. (In French.) (Abs.) Zootec. e Vet. 3(6): 30-31. June 1948. 41.8 Z7

20164 VIANNA, A. T. Pirapitinga swine. (In Portuguese.) Chacaras e Quintais 78: 569-570. Nov. 15, 1948. 9.2 C34

20165 WEISS, E. Schweinezucht in Württemberg. Deut. Viehhandel 3(22): 3. Nov. 30, 1948. 49 D482

20166 WILLIAMS, E. Now we breed the super hog. Pa. Meat Dealer 22(12): 13, 17. Dec. 1948. 286.85 P38

#### Feeds and Feeding

20167 AMSCHLER, J. W. Zuckerrüben in der schweinemast. Pflug 1: 179-180. Nov. 1948. 14 P48

20168 BLIN, H. Surveillez l'allaitement des porcelets. Rustica 21: 801. Nov. 14, 1948. 14 R92

20169 BLIN, H. Utilisons le maïs-grain pour nourrir les porcs. Vie Agr. 3(95): 8-9. Sept. 11/18, 1947. 14 V673

20170 BÖHME-SKASSA, C. Schweinemast-verträge. Deut. Landw. Presse 71(5): 4. Sept. 4, 1948. 18 D482

20171 CRAM, B. L'engraisement des porcs. Unité Paysanne 3(158): 2. Nov. 13, 1948. 14 U3

20172 DUPUY, P. Les sous-produits de nos industries laitières doivent permettre d'améliorer nos élevages porcins. J. de la France Agr. 4: 981, 984. Nov. 26/Dec. 2, 1948. 14 J829

20173 ELLIOTT, J. A. Feeding pigs for cheap gain. Prog. Farmer, Ga.-Ala.-Fla. Ed. 63(11): 22. Nov. 1948. 6 P945G

20174 FORSHAW, R. P. Évolution de la technique de l'alimentation des porcs. Terre de Chez Nous 21(11): 10. Dec. 8, 1948. 7 T27

20175 FOSTER, R. L. Night snacks for hogs. Capper's Farmer 59(11): 18. Nov. 1948. 6 M693

20176 HALE, F. Feed brood sows right to get normal litters of pigs. Duroc News 22(12): 22. Dec. 1948. 46.8 N212

20177 HEIM, M. Die molke bei der schweinemast. Deut. Landw. Presse 71(5): 5-6. Sept. 4, 1948. 18 D482

20178 HUGHES, E. H., and HEITMAN, H., JR. Swine feeding experiments. Calif. Agr. Expt. Sta. B. 709, 18 p. Oct. 1948. 100 C12S

20179 KING, T. A. Supplemental feeding of swine. Pacemaker 7(1): 2-3. Jan 1, 1949. 280.28 P113

20180 KULCKE. Wieder futterkartoffeln für die schweinemast. Landw. Wchnbl. 138: 248. Sept. 11, 1948. 18 L2338

20181 LAURIDSEN, L. The protein problem in swine production. (In Danish.) Dansk Landbr. 67: 363-364. Oct. 1, 1948. 280.28 V91

Profitability of use of skim milk in swine feeding.

20182 MACALALAD, S. An observation on the quality of fat from pigs fed with coconuts. Philippine Livestock Mag. 1: 10, 33. Nov. 1947. 49 P53

20183 NIESCHLAG, F. Futtertechnisches zu den schweinemastverträgen. Landwirtschaftsblatt Weser-Ems 95: 238-239. Nov. 15, 1948. 18 L2345

20184 NORDFELDT, S. Young pigs and fattening pigs. (In Swedish.) (Sum.) Lantmannen 32: 790-791. Nov. 27, 1948. 11 L234

Feeding.

20185 PROULX, J. R. Comment développer de bons porcs de marché. Terre de Chez Nous 21(12): 9. Dec. 15, 1948. 7 T27

Feeding.

20186 RICHTER, K. Fütterung der zucht- und mastschweine. Neue Mitt. f. die Landw. 3: 325-326. Oct. 15, 1948. 18 N39

20187 TRAVERSO, D. Raising swine with continuous feeding. (In Italian.) Allevatore 4(39): 1. Sept. 26, 1948. 49 AL55

20188 VESTAL, C. M., and MOTT, G. O. All summer hog pastures. Amer. Hampshire Herdsman 23(11): 70. Nov. 1948. 46.8 Am33

20189 VESTAL, C. M., and MOTT, G. O. Ladino clover vs alfalfa. Amer. Hampshire Herdsman 23(11): 50-51. Nov. 1948. 46.8 Am33

20190 WILLMAN, J. P. Feeding pigs in winter. Amer. Agr. 146: 6, 15. Jan. 1, 1949. 6 Am3

20191 WILLMAN, J. P. Feeds for swine. N. Y. Agr. Col. Cornell Feed Serv. 21: 3. Nov. 1948. 275.29 N48Cf

#### Veterinary Medicine

20192 BACHTEL, V. Care of unborn litters is vital. Amer. Hampshire Herdsman 23(12): 32-33. Dec. 1948. 46.8 Am33

20193 BAILEY, J. W. Dermatitis in a gilt. Amer. Vet. Med. Assoc. J. 113: 474. Nov. 1948. 41.8 Am3

20194 BOWLER, G. E. Malignant neoplasm (lymphoblastoma) of the liver in a hog. Amer. Vet. Med. Assoc. J. 113: 557-558. Dec. 1948. 41.8 Am3

20195 CICOGNANI, A. Would anti-swine-erysipelas serum therapy be impeded in swine in which the infection develops on a hog-cholera background. Considerations derived from experiments with mixed anti-hog-cholera anti-swine-erysipelas serum therapy. (In Italian.) Zooprofilassi 3: 186-187. July 1948. 41.8 Z72

20196 COLBY, R. W., and others. Biotin-pantothenic acid interrelationship and enteritis in the pantothenic acid deficient pig. Amer. Vet. Med. Assoc. J. 113: 589-593. Ref. Dec. 1948. 41.8 Am3

T. J. Cunha, C. E. Lindley, D. R. Cordy, and M. E. Ensminger, joint authors.

20197 DE JESUS, Z. Control of swine kidney worm [Stephanurus dentatus]. Philippine Livestock Mag. 1: 16-17, 35. Nov. 1947. 49 P53

20198 DEMICHELIS, L. A. Peste porcina. Rev. Mens. Ilus. B. A. P. 31(372): 67-69. Nov. 1948. 9 R326

20199 DUNLAP, M. K. Human and swine influenza: a review. North Amer. Vet. 29: 782-783. Dec. 1948. 41.8 N812

20200 DUTHIE, R. C. An unusual autopsy finding in a pure bred Yorkshire sow, involving inbreeding, congenital malformation, chronic rhinitis and a neoplasm. Canad. J. Compar. Med. 12: 288-291. Nov. 1948. 41.8 C162

20201 FÁBREGAS, H. The plague [hog cholera] is knocking at our door. (In Portuguese.) Criação e Vet. 2: 162. Aug. 1947. 49 C86

Brazil.  
20202 FEENSTRA, E. S., and others. Transmissible gastroenteritis of baby pigs. Amer. Vet. Med. Assoc. J. 113: 573-575. Dec. 1948. 41.8 Am3

F. Thorp, Jr., M. L. Gray, and W. N. McMillen, joint authors.

20203 FONTANELLI, E. Parasitic diseases in swine: intestinal ascariasis. (In Italian.) Zooprofilassi 3: 155-158. June 1948. 41.8 Z72

20204 GALINDO, A. El cerdo. Ceres 13(147): 6-7. Sept. 1, 1948. 15 C33

Diseases and pests.  
20205 GENDREAU, L. A. Field observations on infectious swine rhinitis. Canad. J. Compar. Med. 12: 291-294. Nov. 1948. 41.8 C162

20206 GENEROSO, J. D. Penicillin for pneumonia in swine. Philippine Livestock Mag. 2: 99, 107. Feb./Mar. 1948. 49 P53

20207 HALLQVIST, C. Observation on the control of swine influenza and sneezing disease [necrotic rhinitis]. (In Swedish.) Ladugården 1948: 207-209. Oct. 1948. 44.8 L12

20208 HEINLE, R. W., WELCH, A. D., and PRITCHARD, J. A. Essentiality of both the antipernicious anemia factor of liver and pteroylglutamic acid for hematopoiesis in swine. (Abs.) J. Lab. & Clin. Med. 33: 1647. Dec. 1948. 448.8 J8233



- 20209 JANISZEWSKI, J. Three cases of acute obliteration of the alimentary canal in pigs. (In Polish.) *Med. Wet.* 4: 791-792. Dec. 1948. 41.8 M463  
English summary.
- 20210 KELLY, C. F., HEITMAN, H., JR., and MORRIS, J. R. Effect of environment on heat loss from swine. *Agr. Engin.* 29: 525-529. Ref. Dec. 1948. 58.8 Ag83
- 20211 KERNKAMP, H. C. H. Vaccination of pigs with *Brucella abortus* vaccine strain 19. *Amer. Vet. Med. Assoc. J.* 113: 564-567. Dec. 1948. 41.8 Am3
- 20212 MCMILLEN, W. N. The brood sow's udder. *OIC News* 14(12): 6. Dec. 1948. 46.8 Oil
- 20213 MCMILLEN, W. N. Swine diseases. *OIC News* 14(11): 6-7. Nov. 1948. 46.8 Oil
- 20214 MACPHERSON, O. M. Worm diseases in pigs; methods of prevention and control. *Agr. Gaz. N. S. Wales* 59: 449-453. (To be cont.) Sept. 1948. 23 N472
- 20215 MARQ, Y., and HENNAUX, L. La microptalmie congénitale chez le porc. (Abs.) *Zootec. e Vet.* 3(6): 6-7. June 1948. 41.8 Z7
- 20216 MAZZARACCHIO, V. Abortion with foot and mouth disease in swine. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 45-46. June 1948. 41.8 Z7
- 20217 MORCOS, Z. Swine fever—a case report. *Amer. Vet. Med. Assoc. J.* 113: 460-462. Nov. 1948. 41.8 Am3  
Egypt.
- 20218 PATTEN, B. M. Embryology of the pig. Ed. 3. Philadelphia, Blakiston, 1948. 352 p. 442 P27E
- 20219 PENA, A. Peste porcina. *Campo [La Paz]* 2(18): 12-17. Oct. 1948. 9.1 C15
- 20220 PINOTTI, B. Shock therapy in swine erysipelas. (In Italian.) *Zooprofilassi* 3: 185-186. July 1948. 41.8 Z72
- 20221 PUSTOWKA, T. A case of erysipelo-thrix rhusiopathiae where the skin and fatty tissue decayed. (In Polish.) *Med. Wet.* 4: 771-772. Dec. 1948. 41.8 M463  
English summary.
- 20222 ROSATI, T. Swine erysipelas. Differential epizootological and clinical data; choice of pathological materials, and transmission to the laboratory. (In Italian.) *Prog. Vet.* 3: 300-304. Sept. 15, 1948. 41.8 P942
- 20223 SANDSTEDT, H. The most common swine diseases in Sweden and measures against them. (In Swedish.) *Norsk Vet. Tidsskr.* 60: 355-370. Oct. 1948. 41.8 N81
- 20224 SCHAPER, W. Entstehung und bekämpfung des ferkelsterbens im lichte der erb- und konstitutionsforschung. *Tierärztl. Umschau* 3: 177-180. Ref. June 1948. 41.8 T445
- 20225 SEYFAERTH, W. Was tun wir mit blindgeborenen ferkeln? *Land, Wald u. Garten* 2: 360. Dec. 1947. 18 L22
- 20226 SWALES, W. E., and GWATKIN, R. Experiments to determine the role of the thorny-headed worm, *Macracanthorhynchus hirudinaceus*, in the occurrence of disease of pigs in Canada. *Canad. J. Compar. Med.* 12: 297-299. Nov. 1948. 41.8 C162
- 20227 TASSI, L. Trichoscopic examination and today's reality. (In Italian.) *Zooprofilassi* 3: 159-160. June 1948. 41.8 Z72  
Inspection of swine carcasses for trichinosis.
- 20228 VIANELLO, G. The present situation of hog cholera in Italy and methods of control. (In Italian.) *Humus* 4(9): 23. Sept. 1948. 16 H88
- 20229 WALLACE, C. R. A. The effect of stilboestrol on the semen and reproductive organs of the boar. *Cambridge U. Abs. Diss.* 1945/1946: 12-13. 1948. 241.8 C14
- 20230 WHITEHAIR, C. K., and others. Tryptophan in digestive disturbances in swine. *Amer. Vet. Med. Assoc. J.* 113: 475-478. Ref. Nov. 1948. 41.8 Am3  
R. H. Grummer, R. R. Spitzer, G. Bohstedt, and P. H. Phillips, joint authors.

#### Miscellaneous

- 20231 ANDERSON, O. W. Management of brood sow Poland China World 36(1): 12. Jan. 1949. 46.8 Sw62
- 20232 BRAUDE, R. Some observations on the behaviour of pigs in an experimental piggery. *B. Anim. Behaviour* 6: 17-25. Ref. Jan. 1948. 410 B873

- 20233 BURGOS, C. X. Raising swine profitably. *Philippine Livestock Mag.* 2: 84-85, 106, 109. Feb./Mar. 1948. 49 P53
- 20234 CLELAND, S. B. Finds centralized hog plan is gaining favor. *Midland Coop.* 16(17): 8. Dec. 29, 1948. 280.28 M58
- 20235 COUCH, V. M. Rapid growth and healthy pigs. *Amer. Hampshire Herdsman* 23(11): 65-66. Nov. 1948. 46.8 Am33
- 20236 DUNNE, H. W., and others. Management, diseases and parasites of swine. IV. *M. S. C. Vet.* 9(1): 23. Fall 1948. 41.8 M582  
W. N. McMillen, F. Thorp, Jr., R. W. Luecke, and P. A. Hawkins, joint authors.
- 20237 FULLER, B. K. More pork an acre; Minnesota Centralized Plan. *Capper's Farmer* 59(11): 40. Nov. 1948. 6 M693
- 20238 HOLBERT, J. C. Let's improve our hog shows. *OIC News* 14(11): 14-15. Nov. 1948. 46.8 Oil
- 20239 HUMBERT, W. L'élevage du porc en plein air. *Acclimatation* 75: 217. Oct. 9, 1948. 14 Ac2
- 20240 KEILHOLZ, F. J. A system that makes hog sense. *Country Gent.* 118(11): 16, 120-122. Nov. 1948. 6 C833  
Hog raising system.
- 20241 LEWIS, D. The semi-solid system of raising hogs. *Berkshire News* 14(2): 30-35. Dec. 1948. 46.8 B454
- 20242 MIÑANO, G. Raising a sow at home. *Philippine Livestock Mag.* 1: 23, 36. Nov. 1947. 49 P53
- 20243 MÜLLER, K. Kleiner Schweinehalter. Radebeul, Neumann, 1947. 83 p. 46 M91
- 20244 PARISI, O. The swine of Modena. (In Italian.) *Riv. di Zootec.* 21: 273-278. Aug./Sept. 1948. 49 R52
- 20245 SWAHN, O. Raising swine and sanitation. (In Swedish.) *Lantmannen* 32: 839-840. Dec. 18, 1948. 11 L234

#### ENTOMOLOGY.

##### GENERAL

- 20246 BAUDYŠ, E. Sixth contribution to the zooeciological research of Moravia and Silesia. (In Czech.) *Vysoká Škola Zeměděl. Fakul. Hospodář. Sborn. Sign C* 37, 55 p. 1947. 105.92 B834  
English summary.
- 20247 BURNS, A. N. Insects collected at Mud Islands, Port Phillip Bay. November 30, 1945. *Melbourne Natl. Mus. Mem.* 1947(15): 143-145. Oct. 1947. 514 M484
- 20248 CHAMPLAIN, A. B. Fish-killing insects. *Pa. Angler* 17(11): 9. Nov. 1948. 410 P382
- 20249 DAKIN, W. J., BENNETT, I., and POPE, E. A study of certain aspects of the ecology of the intertidal zone of the New South Wales coast. *Austral. J. Sci. Res. Ser. B. Biol. Sci.* 1: 176-230. Ref. May 1948. 442.8 Au72  
Includes insects.
- 20250 DUNCAN, J., and FOURNIER, O. Liste des insectes récoltés à l'île aux Basques et aux îles Razades nord et sud. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 79-80. 1948. 517 M76
- 20251 FODOR, P. J. Studies on the nature of insect lipases and esterases. I-IV. *Enzymologia* 12: 333-342, 343-349; 13: 57-61, 66-72. June-Aug. 1948. 390.08 En9  
I. The specific inhibition by sodium taurocholate of part of the lipolytic enzyme systems contained in extracts from various organs of the grasshopper (*Schistocerca gregaria* Forsk. and *Doclostaurus maroccanus* Thnb.). II. The esterases and lipases of the grasshopper. III. The specificity of the action of insect lipases. IV. The specificity of the lipases and esterases contained in the larvae of the silk worm (*Bombyx mori* L.).
- 20252 FOURNIER, O. Liste officielle des noms français d'insectes d'importance économique au Canada. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 80. 1948. 517 M76
- 20253 GILIAROV, M. S. Role of the soil in the transition of invertebrates from the aquatic mode of living to the terrestrial and the origin of insects. (In Russian.) *Akad. Nauk SSSR. Izv., Ser. Biol.* 1948: 323-332. Ref. May/June 1948. 511 Sa2B



- 20254 HATCH, M. H. The "complete" taxonomist. *Coleopterists' B.* 2: 71-72. Oct. 1948. 421 C674
- 20255 HATCH, M. H. Why locality labels? *Coleopterists' B.* 2: 76-78. Oct. 1948. 421 C674
- 20256 HERMES, R. C. The grass forest with special reference to the life cycle of insects. (Abs.) Roy. Canad. Inst. Proc. 13: 28-29. 1948. 517 T63P
- 20257 HINTON, H. E. On the origin and function of the pupal stage. Roy. Ent. Soc. London. Trans. 99: 395-409. Ref. Nov. 8, 1948. 420 L84
- 20258 LERUDY, V. Le froid détruit-il les insectes? *Acclimatation* 75: 249. Nov. 27, 1948. 14 Ac2
- 20259 PAULIAN, R. Notion, limites et importance des niches écologiques. *Rev. Franç. d'Ent.* 15: 161-165. 1948. 421 R323
- 20260 ROSS, H. H. A textbook of entomology. New York, Wiley, 1948. 532 p. 422 R733
- 20261 SAFRANOVICH, B. M. Nutrition, maturation and fertility of some predatory [Sympherobius amicus and Cryptolaemus montrouzieri] and parasitic [Scolia dejeani] insects. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 126-131. 1948. 464.9 L542S
- 20262 SCHRADER, F. Data contributing to an analysis of metaphase mechanics. *Chromosoma* 3(1/2): 22-47. Ref. 1947. 442.8 C46  
Includes observations on insect mitosis.
- 20263 STOHL, G. Bemerkungen zum chitin-problem. (In Hungarian.) *Folia Ent. Hungar.* 2: 37-42. 1947. 420 So12  
German summary.
- 20264 STURANI, M. A new type of aspirator. (In Italian.) *Soc. Ent. Ital. B.* 78: 31-32. May 12, 1948. 420 H1
- 20265 ZIKÁN, W., and WYGODZINSKY, P. Catalog of the types of insects of the Instituto de Ecologia e Experimentação Agrícolas. (In Portuguese.) Brazil. *Serv. Nac. de Pesquisas Agron. B.* 4, 93 p. May 1948. 9.2 B738  
Prefatory note in English.
- GENERAL - ECONOMIC
- 20266 ADMONT, P. H. Un insecticide polyvalent: le Phosphémol 314. *Rev. Agr. de l'Afrique du Nord* 46: 545-547. Oct. 29, 1948. 80 R326
- 20267 ANDERSON, L. D. Insect pest control. West. Grower & Shipper 20(1): 23, 37, 46. Dec. 1948. 280.38 W52
- 20268 BARON, C. Esters phosphoriques. *Fruit Belge* 16: 177-181. Dec. 1948. 80 F9493  
Chemistry of the insecticides, hexaethyl tetraphosphate, tetraethyl pyrophosphate, and parathion.
- 20269 BENNETT, S. H., and MARTIN, H. The qualitative examination of insecticidal properties: progress report—1947. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 147-156. Ref. 84 B77
- 20270 BILLIG, H. Biologische schädlingbekämpfung. *Unser Hof* 1948: 105-107. 18 Un72
- 20271 BLOCK, S. S. Insecticidal surface coatings. *Fla. Engin. and Indus. Expt. Sta. Tech. Paper* 19, 6 p. Ref. Feb. 1948. 290.9 F66T
- 20272 BLOCK, S. S. Residual toxicity tests on insecticidal protective coatings. *Fla. Engin. and Indus. Expt. Sta. Tech. Paper* 20, 5 p. Ref. Apr. 1948. 290.9 F66T
- 20273 BONNEMAISON, L. Les parasites animaux des plantes oléagineuses métropolitaines. France. *Min. de l'Agr. B. Tech. d'Inform.* 28/29: 201-209. Apr./May 1948. 14 F844B
- 20274 BOSCARDI, F., and PETRILLO, E. Nontoxicity of DDT to larvae of trematodes and the intermediate molluscan hosts. (In Italian.) *Ann. d'Ig. [Rome]* 58(1): 41-42. Jan./Feb. 1948. 449.8 An72
- 20275 BROMLEY, S. W. "Specialization" in new organic insecticides. *Agr. Chem.* 3(12): 24, 69. Dec. 1948. 381 Ag8
- 20276 BUSVINE, J. R. Toxicity to insects of surfaces impregnated with pyrethrum and rotenone. *Pyrethrum Post* 1(2): 31-32. Oct. 1948. 421 P99  
Comparison tests with DDT.
- 20277 CANE, R. F. The manufacture and application of DDT. *Austral. Chem. Inst. J. & Proc.* 15: 343-355. Ref. Oct. 1948. 385 Au72
- 20278 CASTANIE, H. Amélioration des vices du bois et protection contre les insectes destructeurs. *Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc.* 18: 239. July/Aug. 1948. 80 F9482
- 20279 CHOPPIN DE JANVRY, J. Quelques procédés de lutte contre les parasites des oléagineux. France. *Min. de l'Agr. B. Tech. d'Inform.* 28/29: 211-215. Apr./May 1948. 14 F844B
- 20280 CONNER, J. T., JR. Control stored grain insects. *N. C. Agr. Col. Ext. C.* 325, 4 p. Sept. 1948. 275.29 N811
- 20281 COPE, O. B. Toxicities and tolerances of new insecticides in relation to wildlife and fish. *Calif. Mosquito Control Assoc. Proc. & Papers* 1948: 26-29. 428 C763
- 20282 CRAIGHEAD, F. C. Concentrated sprays advance forest insect control. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 111, 2 p. Oct. 1948. 1.98 R31
- 20283 DAHL, A. H. Objectives and scope of the new Bureau of Vector Control. *Calif. Mosquito Control Assoc. Proc. & Papers* 1948: 8-11. 428 C763
- 20284 DELANOUE, P. L'orientation de la lutte chimique contre les insectes nuisibles de l'agriculture. *Colon. Franc. de Tunisie* 58(2078): 2-4. Dec. 18, 1948. 24 C712
- 20285 DOMENICHINI, G. And how much food? (In Italian.) *Humus* 4(10): 31. Oct. 1948. 16 H88  
Insecticides to prevent food damage.
- 20286 DOUGLAS, J. R. Controllable noxious arthropods, other than mosquitoes, affecting man and animal. *Calif. Mosquito Control Assoc. Proc. & Papers* 1948: 14-16. 428 C763
- 20287 EGUINO Z., A. Cartilla para el tratamiento de las plagas y enfermedades de los frutales. *Campo [La Paz]* 2(18): 32-41. Oct. 1948. 9.1 C15
- 20288 EGYPT. MINISTRY OF AGRICULTURE. A note on the co-operation between M.E.C. [Middle East Countries] in the joint preparation of insecticides. *Cairo, Govt. Press*, 1948. 8 p. 423 Eg9
- 20289 FRANSEN, J. J. Are pests getting insensitive to chemical control preparations? III. (In Dutch.) *Groenten en Fruit* 4: 343. Dec. 9, 1948. 80 G89
- 20290 FREAR, D. E. H., comp. A catalogue of insecticides and fungicides. v. II. Chemical fungicides and plant insecticides. 153 p. Waltham, Mass., *Chronica Botanica*, 1948. (Annales Cryptogamici et Phytopathologici. v. 8) 450 An77
- 20291 FREAR, D. E. H. Chemistry of insecticides, fungicides and herbicides. Ed. 2. New York, Van Nostrand, 1948. 417 p. 386 F87
- 20292 FREEMAN, J. A. Kitchen pests. *Nutr., Dietetics, Catering* 2: 130-139. Winter 1948. 389.8 N959
- 20293 FRIEDL, A. Unterlassungssünden in der schädlingbekämpfung. *Nach der Arbeit* 24: 1-2. Nov. 23, 1948. 80 N11
- 20294 FRIEND, W. H. Control of citrus pests. *Tex. Farming & Citric.* 25(5): 20. Nov. 1948. 80 T31
- 20295 FURMAN, D. B. Toxicities and tolerances new insecticides. *Calif. Mosquito Control Assoc. Proc. & Papers* 1948: 24-26. 428 C763
- 20296 GEIB, L. M. Improving crop dusting methods. *Food Packer* 30(1): 70, 72, 75-76, 78-79. Jan. 1949. 286.83 C165
- 20297 GLASS, G. B. J. An epidemic of tularemia transmitted by insects in settlements of deportation, Asino and Jaja, Siberia, Soviet Russia: report of 121 cases. *Amer. J. Med. Sci.* 216: 411-424. Ref. Oct. 1948. 448.8 Am3
- 20298 GOBLE, H. W. DDT, with particular reference to use on plants. *Ontario Hort. Soc. Ann. Rpt.* 1947: 34-37. 1948. 82 On825
- 20299 GOLDBERG, M. 1949 chemical supply is ample, according to market survey; herbicides, organic insecticides appear adequate to meet anticipated demand in the new year; new use methods are seen. *Agr. Chem.* 3(12): 37-38. Dec. 1948. 381 Ag8
- 20300 GOODEN, E. L., and UPDIKE, R. L., Jr. Storage tests on conditioned and wettable powders containing 90 percent of DDT. *U. S. Bur. Ent. and Plant Quar. E-758*, 3 p. Oct. 1948. 1.9 En83



- 20301 GREAT BRITAIN. BRITISH INTELLIGENCE OBJECTIVES SUB-COMMITTEE. The manufacture, formulation and application of the major pest control products in the British, U. S. & French Zones of Germany, U. S. Off. Tech. Serv. PB Rpt. 81638, 194 p. 1947. 157.8 R29  
BIOS Final report 1480.
- 20302 GREENSLADE, R. M. Pestox III: a systemic insecticide. *Grower* 30: 1015, 1017-1018. Dec. 11, 1948. 286.83 M34  
Organic phosphorus compound effective against aphids on hops.
- 20303 HALLER, H. L. Chemistry and formulations of new insecticides useful in medical entomology. *Internatl. Cong. Trop. Med. and Malaria*. Abs. 4: 140. 1948. 150.1 C766
- 20304 HAMBLETON, E. Three insect pests of current importance in Central and South America. (Abs.) *Ent. Soc. Wash. Proc.* 50: 253-254. Dec. 1948. 420 W27  
*Stephanoderes hampei*, *Cosmopolites sordidus*, *Schistocerca cancellata*.
- 20305 HAMMON, W. M. Advances in knowledge of the vectors and arthropod reservoirs of certain of the encephalitides. *Calif. Mosquito Control Assoc. Proc. & Papers* 1948: 4-6. 428 C763
- 20306 HARDY, E. American studies of grain pests and moulds. *Miller* 79: 1101. Dec. 13, 1948. 298.8 M61
- 20307 HARDY, E. Insect conditions in Iowa nurseries. *Iowa State Hort. Soc. Proc.* 82: 163-164. 1948. 81 I09
- 20308 HARDY, N. H. Organisation of the Kenya pyrethrum industry. *Pyrethrum Post* 1(2): 2-3. Oct. 1948. 421 P99
- 20309 HARRIS, J. S. Ecologically speaking, using insecticides, man upsets the dynamic balance of life around him. *Monsanto Mag.* 27(3): 14-17. June 1948. 309.8 M75
- 20310 HECHT, O. Los nuevos insecticidas orgánicos sintéticos y su aplicación en la higiene y la agricultura. I. *Chapingo* 25: 123-128. Sept. 1948. 102 C36
- 20311 INSECT resistance to new organics discussed; a staff report. *Chem. & Engin. News* 26: 3820. Dec. 27, 1948. 381 J825N
- 20312 IVANOVA, Z. V. Chemical and thermic methods of control of dried fruit and vegetable pests. (In Russian.) *Leningrad. Inst. Zashch. Rast. Sborn. Trud.* 1: 249-251. 1948. 464.9 L542S  
*Plodia interpunctella*, *Ephestia elutella* and *Oryzaephilus surinamensis*.
- 20313 JENKINS, C. F. H. Biological control in Western Australia. *Roy. Soc. West. Austral. J.* 32: 1-17. 1945/1946, pub. July, 1948. 514 P432
- 20314 JOHNSON, A. D. An aerocide for small green-houses. *Amateur Gard.* 65(3362): 20. Oct. 19, 1948. 80 Am13
- 20315 KNIPLING, E. F. New insecticides, acaricides, and repellents for the control of arthropods attacking man. *Internatl. Cong. Trop. Med. and Malaria*. Abs. 4: 141-142. 1948. 150.1 C766
- 20316 KNIPLING, E. F. Some objectives in research for the control of arthropods of medical importance. (Abs.) *Calif. Mosquito Control Assoc. Proc. & Papers* 1948: 71-73. 428 C763
- 20317 KOZLOVA, E. N. Experiments in using concentrated solutions and suspensions of insecticides. (In Russian.) *Leningrad. Inst. Zashch. Rast. Sborn. Trud.* 1: 198-207. Ref. 1948. 464.9 L542S
- 20318 KRUEL, W. Forstentomologischer kalender. *Forstw., Holzw.* 1: 234-237. Nov. 1, 1947. 99.8 F7793
- 20319 KÜHL, R. Wirtschaftliche notwendigkeit der schädlingbekämpfung. *Allgäuer Bauernbl.* 16: 218-219, 236-237. Sept. 17, Oct. 1, 1948. 18 AL53
- 20320 LABARTHE, E. Brigadas sanitarias crea el SCIPA mediante su servicio de Extensión. *Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 14: 37-38. July 1948. 9.8 P4352  
Insect spraying in Peru.
- 20321 LAForge, F. B., GREEN, N., and GERSDORFF, W. A. Constituents of pyrethrum flowers. XXII. Synthesis and relative toxicity of two isomers of cinerin I. *Amer. Chem. Soc. J.* 70: 3707-3711. Nov. 1948. 381 Am33J
- 20322 LE GOUPILS, P. Les techniques modernes de désinsectisation. *Meun. Franç.* 29: 30-38. (To be cont.) Nov. 1948. 298.8 M57  
In mills and silos.
- 20323 LEHMAN, A. J. The toxicology of the newer agricultural chemicals. *Sanit. News*. B. 18, 7 p. Sept. 14, 1948. 449.8 Sa52  
Insecticides.
- 20324 LEHMAN, A. J. The toxicology of the newer insecticides. *Internatl. Cong. Trop. Med. and Malaria*. Abs. 4: 139140. 1948. 150.1 C766
- 20325 LEMMON, A. B. Status of new economic poisons under the agriculture code. *Calif. Mosquito Control Assoc. Proc. & Papers* 1948: 23-24. 428 C763
- 20326 LINDUSKA, J. P., and SURBER, E. W. Effects of DDT and other insecticides on fish and wildlife; summary of investigations during 1947. *U. S. Fish and Wildlife Serv. C.* 15, 19 p. 1948. 156.2 C49
- 20327 LONGO, L. Use of wormwood in insect control. (In Italian.) *Piante Officinali* 3(10): 11. Oct. 1948. 71.8 P57
- 20328 LOSS. Effect of DDT on plants and animals. (In Portuguese.) *Rev. dos Criadores* 19(8): 85-86. Aug. 1948. 43.8 R32
- 20329 MAAN, W. J. The helicopter as agricultural equipment. (In Dutch.) *Groenten en Fruit* 4: 342-343. Dec. 9, 1948. 80 G89  
For spraying and dusting.
- 20330 MAAN, W. J., and others. Helicopter spraying in agriculture and horticulture. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 11: 633-654. Oct. 1948. 86 N384  
P. M. van Bommel, H. Milborn, and J. G. ten Houten, joint authors.  
English summary.
- 20331 MCKELVEY, J. J., and PARKER, D. Nuevos insecticidas. *Mex. Sec. de Agr. y Ganad. Fol. Téc.* 2, 21 p. Oct. 1948. 8 M577F  
English summary.
- 20332 MASSACHUSETTS. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Apple spray schedule for home orchard. *Mass. U. Agr. Ext. Leaflet* 100D, rev., 4 p. Mar. 1948. 275.29 M381L
- 20333 MAYNE, J. B. Food losses. *Agr. Gaz. N. S. Wales* 59: 472-473. Sept. 1948. 23 N472  
Losses due to infestation.
- 20334 MOHR, A. W. Pesticide industry recognizes, seeks solution to new problems. *Agr. Chem.* 3(12): 21, 71. Dec. 1948. 381 Ag8
- 20335 MEDICI, R. F. Revolutionary facts for the triumph of life. (In Italian.) *Gior. di Agr.* 58: 326. Nov. 21, 1948. 16 It1G  
New insecticides in the control of disease in Southern Italy.
- 20336 MÖNNIG, H. O. Insecticides for the farm. (In Afrikaans.) *Wolboer* 1947(3): 22. Oct. 1947. 458 W83
- 20337 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect pests of beans. *N. S. Wales. Dept. Agr. Insect Pest Leaflet* 75, 6 p. Sydney, 1948. 423.92 N47  
*Agromyza phaseoli*, *Tetranychus urticae*, *Nezara viridula*, *Acanthoscelides obtectus*, *Megacoelum modestum*, aphids, thrips, leaf-hoppers, caterpillars.
- 20338 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect pests of potatoes. *N. S. Wales. Dept. Agr. Insect Pest Leaflet* 28, 8 p. Sydney, 1948. 423.92 N47  
*Gnorimoschema operculella*, *Listroderes obliquus*, *Epilachna 28-punctata*, *Nysius vinitor*, *Heteronychus sanctae-helenae*, cutworms, aphids, leaf-hoppers, flea-beetles, termites.
- 20339 NIELSEN, C. Effect of Bladan E 605 f on pests and plants. (In Danish.) *Gart. Tid.* 64: 565-566. Nov. 24, 1948. 80 G192
- 20340 PAGE, A. B. P. Synergists. *Pyrethrum Post* 1(2): 7-9. Oct. 1948. 421 P99  
For insecticides.
- 20341 PEDERSEN, C. S. Rotenone sprays rise in popularity. *Tex. Livestock J.* 7(11): 32. Nov. 15, 1948. 49 T29
- 20342 PENNY, F. C. Washes for Washington fruit. *Grower* 30: 920-921. Nov. 27, 1948. 286.83 M34  
Insect sprays.
- 20343 POTTER, C. The development of pyrethrum-oil sprays for the control of insect pests of stored products. *Pyrethrum Post* 1(2): 5-7. Oct. 1948. 421 P99
- 20344 RAFFAELLI, D. Determination of hexachlorocyclohexane (gammexane) in commercial products. (In Italian.) *Ann. di Chim. Appl.* 38: 552-556. Sept. 1948. 385 An7



- 20345 RAZIM, W. W. El pirofosfato de tetraetilo. Hacienda 43(12): 54. Dec. 1948. 6 H11
- 20346 RECK, S. H. Where are new insecticides leading us? N. J. Farm & Gard. 19(11): 14, 61. Nov. 1948. 6 G162
- 20347 REEKS, W. A. Forest insect protection in Maritimes. Canad. Soc. Forest Engin. Marit. Sect. Ann. Rpt. (1947) 11: 72-74. 1948. 99.8 C167A
- 20348 REQUELME I., J. La chinche del melón. Agr. Mex. 64(6/7): 8-12. June/July 1948. 8 Ag8  
Discusses *Anasa tristis*, *Aphis gossypii*, *Diabrotica vittata*, and *Protoparce sexta*.
- 20349 RICHARDSON, C. H. 1947 results of using DDT on apples in Iowa. Iowa State Hort. Soc. Proc. 82: 137-139. 1948. 81 I69
- 20350 SAZONOV, P. V. Results of industrial testing of colloidal sulfur paste [as an insecticide]. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 194-197. 1948. 464.9 L542S
- 20351 SCHMIDT, H. Die tierischen schädlinge der pappel. Pappeljahr. 1947: 78-82. 99.8 P19
- 20352 SHABANOVA, M. P., CHIGAREV, G. A., and SAZONOV, P. V. Use of arsenicals in the control of *Eurygaster integriceps*. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 233-238. 1948. 464.9 L542S  
Experiments in dusting by airplane.
- 20353 SHEWELL-COOPER, W. E. Control of garden pests. New Health 23(11): 10, 12. Nov. 1948. 449.8 N45
- 20354 SHEWELL-COOPER, W. E. Don't spoil your fruit trees for a ha'p'orth of tar-oil. Smallholder 80 (2017): 13. Nov. 26, 1948. 10 Sml  
Adequate spraying.
- 20355 SKINNER, H. T. Selenium and the insect pests of boxwood. Pa. U. Morris Arboretum. B. 4: 73-79. Nov. 1948. 451 P383
- 20356 SLAWIK, O. Nützliche insekten und andere nützliche tiere im siedlergarten. II. Siedler 3(10): 4. Oct. 1948. 19 Si1
- 20357 SOMERSET, G. C. Sorting out the new insecticides. Grower 30: 970-971. Dec. 4, 1948. 286.83 M34
- 20358 STARK, V. N. Behavior of predatory insects as a basis for their use in the control of agricultural pests. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 121-125. 1948. 464.9 L542S
- 20359 STEIN, H. Wichtige obstbaumschädlinge, deren bekämpfung in die herbst- und wintermonate fällt. Gartenjahr 3: 171-173. Nov. 1948. 80 G1932
- 20360 STUBBINGS, W. A. K. Spray programme for pears and apples. Farming So. Africa 23: 586-588, 628. Sept. 1948. 24 So842
- 20361 SYMPOSIUM: New insecticides—their place in mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 16-22. 428 C763
- 20362 SYMPOSIUM: Toxicities and tolerances of new insecticides. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 23-30. 428 C763
- 20363 TRUJILLO PELUFFO, A. Insectos enemigos de la agricultura. Uruguay. Min. de Ganad. y Agr. B. Inform. 235: 4; 240: 6. Sept. 9, Oct. 14, 1948. 9.9 G15B
- 20364 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Hawaiian fruit and vegetable quarantine. U. S. Bur. Ent. and Plant Quar. B. E. P. Q.-Q. 13, 7 p. May 20, 1948. 1 F31
- 20365 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. The new insecticides for controlling external parasites of livestock. U. S. Bur. Ent. and Plant Quar. E-762, 16 p. Dec. 1948. 1.9 En83
- 20366 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Kingdom of Belgium. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 437, rev., 13 p. Nov. 24, 1948. 1.9 F73
- 20367 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Netherlands. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 574, 4 p. Nov. 24, 1948. 1.9 F73
- 20368 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Philippine Islands. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 363, sup. 2, 1 p. Nov. 19, 1948. 1.9 F73
- 20369 U. S. PRODUCTION AND MARKETING ADMIN. Interpretations of the regulations for the enforcement of the Federal Insecticide, Fungicide, and Rodenticide Act. U. S. Prod. and Mktg. Admin. Serv. and Regulat. Announc. 167, 52 p. Aug. 1948. 1 M34S
- 20370 USINGER, R. L. Toxicities and tolerances of new insecticides. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 29-31. 428 C763
- 20371 VALDIVIA A., A. Las plagas de los citrus. Campo [La Paz] 2(15): 5-8; (18): 7-9. (To be cont.) July, Oct. 1948. 9.1 C15
- 20372 VERNON, J. V. Supplying abundant pesticide chemicals was industry's role in 1948 food output. A. I. F. News 7(1): 5. Sept./Oct. 1948. 421 Ag8
- 20373 VOTH, W. Schädlingsbekämpfung mit cyano-gas. Berufs Gärt. 1(4): 4-5. April 1948. 80 B463
- 20374 WHITE, C. E. Controlling insects on the farm. Milk Dealer 38(3): 112-113. Dec. 1948. 44.8 M595
- 20375 WIND, E. J. New insecticides for the Dahlia grower. Dahlia 17: 6-7. Spring 1948. 80 D133

## APICULTURE AND APIS MELLIFERA

- 20376 ALBURQUERQUE. Alimentación de las abejas. Nuestros Amigos 5(51): 21. (To be cont.) Aug. 1948. 48.8 N88
- 20377 ANDERSON, E. J. Some results of A. F. B. research. Pa. Beekeeper 23(3): 11. Sept. 1948. 424.8 P38  
American foulbrood.
- 20378 ANDERSON, E. J. Summer short course at college emphasizes practical application. Pa. Beekeeper 23(3): 1. Sept. 1948. 424.8 P38  
Beekeeping at Penn State.
- 20379 BOUCHARDEAU, C. Défendons nos abeilles. La luzerne. Rev. Franç. d'Apic. 1948: 703-706. Nov. 1948. 424.8 R329
- 20380 BRAUN, B. Das blatgrün und die honigtöpfe. Imkerfreund 3: 51-52. July 1948. 424.8 Im43
- 20381 CABEZAS, J. La miel la recolectan las abejas. Valencia Avic. 5(4): 27-29. May 1948. 47.8 V23
- 20382 CASA PACHECO, MARQUÉS DE. En relación con la futura Asamblea. Valencia Avic 5(8): 15. Sept. 1948. 47.8 V23  
Apiculture and sericulture in Spain.
- 20383 CHANEAU, J. Les questions économiques. Rev. Franç. d'Apic. 1948: 699-702. Nov. 1948. 424.8 R329
- 20384 CHEESEMAN, E. Insect behaviour. Scot. Beekeeper 24: 194. Nov. 1948. 424.8 Sco8  
Effect of light on bees.
- 20385 DANÚS PONS, J. Las abejas y la agricultura. Balearic Isl. Diputación Prov. B. de Agr. 48: 10. Sept. 1948. 15 B19
- 20386 DANÚS PONS, J. Divagaciones de un apicultor. Balearic Isl. Diputación Prov. B. de Agr. 38: 4-6. Nov. 1947. 15 B19
- 20387 ECKERT, J. E., and WEST, M. C. Chlordane vs. bees and ants. Amer. Bee J. 88: 584. Dec. 1948. 424.8 Am3
- 20388 ESTREMER DE CABEZAS, M. El baile de las abejas. Valencia Avic. 5(8): 23-25. Sept. 1948. 47.8 V23
- 20389 FITZPATRICK, D. A. F. B. and sulphathiazole. Irish Beekeeper 2: 259-260. Dec. 1948. 424.8 Ir42
- 20390 FRISCH, K. VON. The dances of the honey bee. B. Anim. Behaviour 5, 32 p. Dec. 1947. 410 B873
- 20391 FRISCH, K. VON. Die wunder des bienenstaates. Naturw. Ver. f. Steiermark. Mitt. 76: 78-81. 1947. 510 G79
- 20392 GERMÁN, C. Apicultura: curso teorico-practico. Vinos, Viñas y Frutas 44: 233-234. (Cont.) Nov. 1948. 9 Ag89
- 20393 GIRAUD, E. Interchangeabilité des cadres. Rev. Franç. d'Apic. 1948: 698-699. Nov. 1948. 424.8 R329
- 20394 GOETZE, G. Bienen als helfer des landwirtes. Unser Hof 1948: 113-115. 18 Un72
- 20395 GOUIN, F. Les danses, signes du "langage" des abeilles. (Un aperçu sur les recherches récentes relatives à la psychophysiologie des abeilles). Ann. Biol. [Paris] (Ser. 3) 24: 287-297. July/Aug. 1948. 442.8 An7



- 20396 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Acarine disease [Acarapis woodi] of bees. *Gt. Brit. Min. Agr. & Fisheries. Advisory Leaflet* 330, 6 p. Sept. 1948. 10 G79La
- 20397 JONES, G. O. The program and purposes of the National Federation [of Beekeepers' Associations]. *Amer. Bee J.* 88: 594-595. Dec. 1948. 424.8 Am3
- 20398 KATZNELSON, H. Sulphathiazole in the treatment of American foulbrood. I. *West. Canada Beekeeper* 11(12): 12-14. Dec. 1948. 424.8 W525
- 20399 KILLION, C. E. Have you ever had a crop failure? *Amer. Bee J.* 88: 597. Dec. 1948. 424.8 Am3
- 20400 LECLERCQ, P. L'élevage aux États-Unis. *Rev. Franç. d'Apic.* 1948: 707-708. Nov. 1948. 424.8 R329
- 20401 MARTIN, E. C. Keeping bees at Churchill. *West. Canada Beekeeper* 11(12): 3-4. Dec. 1948. 424.8 W525
- 20402 MENGES, G. Altes und neues über die bedeutung der bienenzucht. *Allgäuer Bauernbl.* 16: 269. Oct. 29, 1948. 18 AL53
- 20403 MENGES, G. Feindliche brüder vergleichen sich. *Kleintier-Zücht. Tierbörse* 2(35/36): 11-12. May 10/25, 1948. 49 K672
- Need for agreement between fruit grower and beekeeper regarding insecticides.
- 20404 MITCHENER, A. V. Manitoba honey flows 1924-1946. *West. Canada Beekeeper* 11(10): 3-4, 6-8. Oct. 1948. 424.8 W525
- 20405 MORISON, D. L. American foul brood; the problem in New South Wales. *Agr. Gaz. N. S. Wales* 59: 485-489. (Cont.) Sept. 1948. 23 N472
- 20406 MÜLLER, G. L. Die trachtkrankheiten der honigbiene. *Tierzucht* 2: 117-120. July/Aug. 1948. 49 T443
- 20407 MURPHY, M. M. Bee work at Rothamstead [Experiment Station]. *Irish Beekeeper* 2: 250-253. Nov. 1948. 424.8 Ir42
- 20408 PEDERSEN, M. W., and TODD, F. E. Pollinating the alfalfa seed crop. *Farm & Home Sci. [Utah Sta.]* 9(4): 15-16. Dec. 1948. 100 UtlF
- Honey bees as pollinators.
- 20409 PELLETT, F. C. Bird's-foot trefoil—the coming legume; a new forage crop which is more drought resistant than clover and more permanent than alfalfa. *Amer. Bee J.* 88: 588-589, 595. Dec. 1948. 424.8 Am3
- Value as honey plant.
- 20410 RAHMAN, K. A., and SINGH, S. Thickness of the thorax of the Indian honeybee *Apis indica* F. *Indian Farming* 8: 285-288. June 1947. 22 In283
- 20411 REICHERT, G. L'année apicole 1948. *Réveil Agr.* 57: 337. Nov. 15, 1948. 14 R322
- 20412 ROSE, M., SAVORNIN, J., and CASANOVA, J. Sur l'émission d'ondes ultra-sonores par les abeilles domestiques. *Paris. Acad. des Sci. Compt. Rend.* 227: 912-913. Nov. 3, 1948. 505 P21
- 20413 RYMASHEVSKII, V. K. Differences in the adaptation of honey-bees of various races. (In Russian.) *Priroda* 37(10): 76-77. Oct. 1948. 410 P933
- Apis indica* and *Apis mellifera*.
- 20414 SEVČÍK, V. La chémothérapie de l'infection des abeilles causée par *Nosema apis*. (In Czech.) *Průn. Vysoká Škola Zeměděl. Fakul. Lesn. Sborn. Sign D* 29, 21 p. Ref. 1947. 105.92 B835
- Russian and French summaries.
- 20415 SMITH, C. M. Beekeeping grows rapidly in Australia. *Amer. Bee J.* 88: 590-591, 599. Dec. 1948. 424.8 Am3
- 20416 STEVENSON, D. Accurate work in total darkness. *Nature Lover* 5: 509-511. Nov. 1948. 410 N218
- Work of the honeybee.
- 20417 VILLEGAS ARANGO, E. Apicultura. Instinto? *Inteligencia?* Valencia Avic. 5(7): 21-23. Aug. 1948. 47.8 V23
- 20418 VILLEGAS ARANGO, E. Un colmenar en peligro. Valencia Avic. 5(4): 25-27. May 1948. 47.8 V23
- Sacbrood.
- 20419 WOODROW, A. W. Tests with DDT on honey bees in small cages. *U. S. Bur. Ent. and Plant Quar.* E-763, 14 p. Dec. 1948. 1.9 En83
- 20420 ZIKOWSKY, F. Wer weiss es einfacher und praktischer? *Österr. Kleintierzüchter* 1948: 396. (To be cont.) June 1948. 49 Os7
- Beehives.

## Colony Management

- 20421 AMBROSINI, J. Como mejorar la producción de nuestras colmenas. *Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 14: 54-55. July 1948. 9.8 P4352
- 20422 BRAUN, E. Stores low as bees hibernate. *West. Canada Beekeeper* 11(12): 6. Dec. 1948. 424.8 W525
- 20423 CABEZAS, J. Apicultura. El concurso con una reina de premio. Valencia Avic. 5(6): 25. July 1948. 47.8 V23
- 20424 CABEZAS, J. Marcado de reinas. Valencia Avic. 5(7): 23. Aug. 1948. 47.8 V23
- 20425 IELPO, J. B. Fecundación artificial o manual de la reina. Uruguay. Min. de Ganad. y Agr. B. Inform. 234: 6. Sept. 2, 1948. 9.9 G15B
- 20426 MEDICI, M. Colonias de abejas anormales. *Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 14: 55-57. July 1948. 9.8 P4352
- 20427 MEDICI, M. Enjambrazon artificial. *Campo y Suelo Argentino* 32(384): 62-63. Oct. 1948. 9 C15
- 20428 MEDICI, M. Modo de buscar la reina de las abejas en la colmena. *Rev. Mens. Ilus. B. A. P.* 31(372): 79-80. Nov. 1948. 9 R326
- 20429 MEDICI, M. Tratamiento de las abejas después de la invernada. *Rev. Mens. Ilus. B. A. P.* 1948: 5-6. Sept. 1948. 9 R326
- 20430 PEASE, C. H. Wintering costs. *Amer. Bee J.* 88: 586-587. Dec. 1948. 424.8 Am3
- 20431 REICHERT, G. Apiculture: la mise en hivernage. *Bouches du Rhone Agr.* 21(987): 8. Oct. 1, 1948. 14 B662
- 20432 WHITMAN, O. H. A different idea in wintering. *Amer. Bee J.* 88: 596. Dec. 1948. 424.8 Am3
- See also Honey and Beeswax in Agricultural Products Section.

## ARACHNIDA, MYRIAPODA, ETC.

- 20433 ANDRÉ, M. Une nouvelle espèce d'Holcithrombidium [H. womersleyi] (Acarien, Thromb.) *Paris Mus. Natl. d'Hist. Nat. B. (ser. 2)* 20: 159-161. Feb. 1948. 410.9 P213
- 20434 ARRARTE, G. Erradicación de la garrapata. *Fed. Rural Rev. (ser. 3)* 11(30): 97-101. July 1948. 9.9 R322
- 20435 BARONI, O. The treatment of cattle tick [Boophilus annulatus] with DDT. (In Portuguese.) *Rev. dos Criadores* 19(2): 75-77. Feb. 1948. 43.8 R32
- 20436 BRAGA, A. Field burning and ticks. (In Portuguese.) *Criação e Vet.* 2: 216-217. Nov. 1947. 49 C86
- 20437 CRANE, J. Comparative biology of salticid spiders at Rancho Grande, Venezuela. II. Methods of collection, culture, observation and experiment. *Zoologica [New York]* 33: 139-145. Nov. 29, 1948. 410 Z722
- 20438 CUBAS V., R. La normalina. *Agronomia [Lima]* 12(51): 5-9. June/July 1947. 9.8 Ag83
- A drug acting against ticks on cattle.
- 20439 DEMANGE, J. M. Notes sur le mue, l'autotomie et la régénération chez une scutigère [Scutigera coleoptrata] (Myriapodes-Chilopodes). *Paris. Mus. Natl. d'Hist. Nat. B. (ser. 2)* 20: 165-168. Feb. 1948. 410 P213
- 20440 DEMIR, M. Über türkische Scutigiden. *Istanbul. Ü. Fen Fakül. Mecmuası. Ser. B. Tabii Himler* 13: 269-279. Oct. 1948. 475 I57
- 20441 DENIS, J. Deux rectifications synonymiques concernant les araignées. *Soc. d'Hist. Nat. B.* 82: 103-104. Oct. 30, 1947. 505 T64
- Scytodes obelisci*, n. n. for *S. lesserti* Denis, not Millot. *Porrhothrix* Denis synonymous with *Minyrioloides* Schenkel.
- 20442 DENIS, J. Notes sur les Érigonides. XI. Les espèces françaises du genre *Oedothorax* Bertkau. *Soc. d'Hist. Nat. B.* 82: 131-158. Ref. Oct. 30, 1947. 505 T64
- 20443 DIAS, J. A. T. S. Two more Ixodidea of the genus *Amblyomma* on the fauna of Mozambique, A. theileri n. sp. and A. tholloni Neumann, 1899. (In Portuguese.) *Rev. de Med. Vet. [Lisboa]* 42: 241-251. Ref. July/Sept. 1947. 41.8 R3215
- 20444 DUNN, R. A. A new salticid spider [Saitis pavonis] from Victoria. *Melbourne Natl. Mus. Mem.* 1947(15): 82-85. Oct. 1947. 514 M484



- 20445 EBBELL, Kalkbeine. Geflügelhof 11: 403. July 2, 1948. 47.8 G276  
Scaly-leg of poultry due to *Cnemidocoptes mutans*.
- 20446 ENDREJAT, E. Zur tilgung der schafträude. Tierärztl. Umschau 3: 161-167. Ref. June 1948. 41.8 T445
- 20447 FORSTER, R. R. A new harvestman [*Nelima dunni*] of the subfamily Liobuninae from Australia. Melbourne Natl. Mus. Mem. 1947(15): 174-177. Oct. 1947. 514 M484
- 20448 GHIDINI, G. M. Control of *Sarcoptes mutans* C. Rob. with DDT. (In Italian.) Soc. Ent. Ital. Mem. 26 (sup.): 70-71. 1947. 420 It1M
- 20449 GORHAM, J. R. Method for treating ear mites [*Otodectes cynotis*] in foxes. Amer. Natl. Fur & Mkt. J. 27(6): 24. Jan. 1949. 412.629 Am3M
- 20450 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Red spiders [*Tetranychus*] on hops and other crops in the open. Gt. Brit. Min. Agr. & Fisheries. Advisory Leaflet 226, 3 p. Sept. 1948. 10 G79La
- 20451 GRIFFING, J. B. New methods for controlling ticks on livestock in Brazil. (In Portuguese.) Fazenda 43(10): 44-45, 60. Oct. 1948. 6 H11P
- 20452 HEGUITO, H. R. La garrapata. Uruguay. Min. de Ganad. y Agr. B. Inform. 239: 3-4; 240: 2. (To be cont.) Oct. 7, 14, 1948. 9.9 G15B  
*Boophilus annulatus*.
- 20453 HERMS, W. B. Ticks (Acarina-Ixodoidea) in the causation of animal disorders and as vectors of disease, with some observations on relapsing fever in California. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 134-135. 1948. 150.1 C766
- 20454 HODGIN, J. E. Getting the best of rust mites [*Phyllocoptruta oleivora*]. Tex. Farming & Citric. 25(6): 20. Dec. 1948. 80 T31
- 20455 HOFFMANN, P. Bekämpfung der schafträude mit benzolhexachlorid. Tierärztl. Umschau 3: 180. June 1948. 41.8 T445
- 20456 KEMPER, H. E. New Mexico experiments result in method to control ear tick [*Otobius megnini*]. N. Mex. Stockman 13(12): 61-62. Dec. 1948. 49 N462
- 20457 KOCOT, M. Chloramine in the treatment of scabies. (In Polish.) Med. Wet. 4: 784-788. Ref. Dec. 1948. 41.8 M463  
English summary.
- 20458 LEES, A. D. The sensory physiology of the sheep tick, *Ixodes ricinus* L. J. Expt. Biol. 25: 145-207. Ref. June 1948. 442.8 B77
- 20459 LEGRAND, J. J. Les isopodes terrestres des environs de Paris. Liste des espèces récoltées. Remarques écologiques. Paris. Mus. Natl. d'Hist. Nat. B. (ser. 2) 20: 154-158. (To be cont.) Feb. 1948. 410.9 P213
- 20460 MEDINA BLANCO, M. Erisipeloide o mal rojo en la especie humana. B. Zootec. 4: 83-87. Mar. 1, 1948. 41.9 Sol6  
Transmission by *Rhipicephalus bursa*.
- 20461 MELLANBY, K. Mites in relation to scabies. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 135-136. 1948. 150.1 C766  
*Sarcoptes scabiei*.
- 20462 PHILIP, C. B., and KOHLS, G. M. Mites [*Trombicula akamushi*] and scrub typhus. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 136-137. 1948. 150.1 C766
- 20463 POZO, E. C. DEL. The action of the venom of a Mexican scorpion (*Centruroides noxius*, Hoffmann) on cholinesterases. Brit. J. Pharmacol. & Chemother. 3: 219-222. Sept. 1948. 396.8 B77
- 20464 RIBAUT, H. Deux espèces de *Craspedosomides* des grottes de l'Hérault. Soc. d'Hist. Nat. B. 82: 257-259. Apr. 30, 1948. 505 T64  
New spp. in *Polymicrodon* and *Brachychaeteuma*.
- 20465 RIBAUT, H. Deux espèces nouvelles de diplopodes (Myriapodes) des Pyrénées-Orientales. Soc. d'Hist. Nat. B. 82: 260-262. Apr. 30, 1948. 505 T64  
*Trichobalanulus lanuginosus* and *Stygioglomeris granulosa*.
- 20466 RICHARDSON, C. H. Orchard mites in Iowa. Iowa State Hort. Soc. Proc. 82: 139-141. 1948. 81 Io9  
*Tetranychus bimaculatus*, *Paratetranychus pilosus*, and *Bryobia praetiosa*.
- 20467 SCHENK, P. J. Sow bug or wood louse [*Porcellio scaber*]. (In Flemish.) Cult. en Handel 14: 789-790. Dec. 1948. 80 C892
- 20468 SEN, S. K. Experiments on the transmission of surra by the tick *Ornithodoros tholozani* Laboulbene and Megnin. Indian J. Vet. Sci. & Anim. Husband. 17: 165-166. Sept. 1947. 41.8 In22
- 20469 VACHON, M. Quesques remarques sur le "nettoyage des pattes machoires" et les glandes salivaires, chez les Pseudoscorpions (Arachnides). Paris Mus. Natl. d'Hist. Nat. B. (ser. 2) 20: 162-164. Feb. 1948. 410.9 P213
- 20470 VANDEL, A. L'énigme de la reproduction des arthropodes cavernicoles et plus particulièrement des isopodes terrestres. Soc. d'Hist. Nat. B. 82: 263-275. Ref. Apr. 30, 1948. 505 T64
- 20471 VELICHKIN, P. A. On the problem of early diagnosis of mange in droves of horses during the winter. (In Russian.) Konevodstvo 18(4): 36-37. July/Aug. 1948. 42.8 K832
- 20472 WAGENINGEN. PLANTENZIEKTENKUNDIGE DIENST. Rondknop bij zwarte bessen veroorzaakt door de galmijt *Eriophyes ribis* Nal. [Roundbud of black currant caused by the gall mite, *Eriophyes ribis*]. Netherlands. Plantenziektenkund. Dienst. Vlugsch. 28, 4 p. Sept. 1948. 464.9 W12V

## COLEOPTERA

- 20473 ANDISON, H. Control of root weevils in British Columbia. Canada. Sci. Serv. Div. Ent. Processed P. 78, 5 p. May 1948. 423.92 C16P  
Four spp. of *Brachyrhinus* harmful to berries and grapes.
- 20474 ANDISON, H. Control of the western raspberry fruitworm [*Byturus bakeri*] in British Columbia. Canada. Sci. Serv. Div. Ent. Processed P. 79, 4 p. May 1948. 423.92 C16P
- 20475 ARNOULD, C. Protégez vos tas de blé: la destruction des calandres et des bruches. Acclimatation 74: 165. June 28, 1947. 14 Ac2  
*Sitophilus*, *Bruchus*, etc.
- 20476 BERGEZINA, V. M. Bait method of control of Tenebrionidae. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 168-175. 1948. 464.9 L542S
- 20477 BERNARD, R., and LEMONDE, A. Nutrition azotée de quelques insectes. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 69. 1948. 517 M76  
*Tribolium confusum*, *Tenebrio molitor* and *Trogoderma ornatum*.
- 20478 BINAGHI, G. A new *Crepidodera* from the Graian and Pennine Alps. (Col. Chrysom.). (In Italian.) Soc. Ent. Ital. B. 77: 47-48. Sept. 30, 1947. 420 It1
- 20479 BOLLOW, H. Tropische käferpracht. Orion 3: 465-472. Nov. 15, 1948. 474 Or4
- 20480 BONNEMAISON, L. Les taupins: biologie et méthodes de lutte. Agriculture [Paris] 12: 321-325. Ref. Oct. 1948. 14 Ag823
- 20481 BUCHHOLZ, H. Worin bestehen die wahren ursachen der borkenkäferkatastrophe? Forstw., Holzw. 2: 161-163. June 1/15, 1948. 99.8 F7793
- 20482 BURLINI, M. Third contribution to the greater knowledge of the geographical distribution of the Coleoptera in Italy. (In Italian.) Soc. Ent. Ital. B. 77: 23-26. July 10, 1947. 420 It1
- 20483 BUTTIKER, W. Zur borkenkäferkalamität. Schweiz. Naturschutz 14: 123-125. Nov. 1948. 279.8 Sc 279.8 Sch9  
French summary, p. 125-126.  
Chiefly *Ips typographus*.
- 20484 CAPRA, F. Notes on Coccinellidae (Col.). III. The larva and the pollen diet of *Bulaea lichatschovi* Hummel. (In Italian.) Soc. Ent. Ital. Mem. 26(sup.): 80-86. 1947. 420 It1M
- 20485 CAZIER, M. A. The origin, distribution, and classification of the tiger beetles of Lower California (Coleoptera: Cicindelidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1382, 28 p. Ref. Sept. 23, 1948. 500 N483N  
Includes n. spp. in *Cicindela*.
- 20486 CHISHOLM, R. D., and MASON, A. C. Ethylene dibromide-chlordane dip for treating plant balls infested with various stages of the Japanese beetle [*Popillia japonica*]. U. S. Bur. Ent. and Plant Quar. E-757, 2 p. Oct. 1948. 1.9 En83
- 20487 COSSEC, P. La bupreste du poirier. B. Agr. de la Seine 14(75): 1. Dec. 5, 1948. 14 B876  
*Agilus sinuatus*.
- 20488 DAUBERSCHMIDT. Fangbaumbekämpfung des fichten-borkenkäfers [*Ips typographus*]. Holz-Zentbl. 73: 99-100. Mar. 27, 1947. 99.81 H742



- 20489 DIBB, J. R. Beetle ecology. *Coleopterists' B.* 2: 73-74. (To be cont.) Oct. 1948. 421 C674
- 20490 DUPREZ, R. Catalogue des Coléoptères des Départements de la Seine-Inférieure et de l'Eure. XII. Phytophagoidea. Soc. des Amis des Sci. et du Mus. de Rouen. Ann. 1944/1946: 205-300. 1947. 505 R75A
- 20491 EDEL'MAN, N. M. Places and wintering conditions of some Tenebrionidae species [in U. S. S. R.]. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 163-167. 1948. 464.9 L542S
- 20492 ENDRÖDI, S. Über die gattung *Dynastes* Kirby. *Folia Ent. Hungar.* 2: 54-59. 1947. 420 So12
- 20493 ESCOBAR DUARTE, F. Holometabolic insects. 22. Coleoptera. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7: 143-170. (Cont.) July/Sept. 1948. 9.2 Ag892
- 20494 FALCONER, D. S. The behaviour of wireworms (larvae of *Agriotes* spp.) in relation to temperature. Cambridge U. Abs. Diss. 1943/1944: 13-14. 1948. 241.8 C14
- 20495 FAVARD, P. Dégâts anormaux d'un charançon [*Apion pisi*] à la luzerne. *Terre d'Oc* 30: 203-204. May. 1948. 14 Ar5
- 20496 FIORI, G. Two new carabids and two tenebrionids on a plant diet. (In Italian.) *Soc. Ent. Ital. B.* 77: 45-46. Sept. 30, 1947. 420 It1
- Ophonus italicus*, *Pterostichus* spp.; *Gonocephalum pusillum*, *Opatrum sabulosum*.
- 20497 FLOHRER, H. Borkenkäferbekämpfung und der "unscheinbare" *Ips amitinus*. Forstw., Holzw. 2: 89-90. Mar. 1/15, 1948. 99.8 F7793
- 20498 FORTIN, B. Etude histologique du tube digestif de la larve d'*Hylurgopinus rufipes* Eich. (Abs.) *Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann.* 14: 79. 1948. 517 M76
- 20499 FOURES, H. Localités inédites ou peu connues de Coléoptères cavernicoles des Pyrénées Françaises. *Soc. d'Hist. Nat. B.* 82: 252-256. Apr. 30, 1948. 505 T64
- 20500 GERRITSEN, J. D. Soil treatment with Hexy-clan dust for the control of white grub [*Melolontha* spp.] and wireworms. (In Dutch.) *Netherlands. Dir van de Tuinbouw. Meded.* 11: 655-659. Oct. 1948: 86 N384
- Preparation containing 5% benzene hexachloride.
- 20501 GREAT BRITAIN. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. FOREST PRODUCTS RESEARCH LABORATORY. D. D. T. spray treatment for prevention of *Lyctus* attack. *Gt. Brit. Dept. Sci. and Indus. Res. Forest Prod. Res. Lab. Leaflet* 43, 1 p. Aug. 1948. 99.9 G796L
- 20502 GREAT BRITAIN. FORESTRY COMMISSION. Pine shoot beetles. *Gt. Brit. Forestry Comn. Leaflet* 3, rev., 6 p. Aug. 1948. 99.9 G795L
- Myelophilus piniperda* and *M. minor*.
- 20503 GRIDELLI, E. What is meant by the grape "carruga" or "melolonta." (In Italian.) *Soc. Ent. Ital. Mem.* 26(sup.): 59-62. 1947. 420 It1M
- Anomala vitis*, *A. ausonia*.
- 20504 GRIEBL, H. Die totengräber im obstgarten. *Nach der Arbeit* 21: 3. Oct. 12, 1948. 80 N11
- Bark beetles.
- 20505 GRIGOR'EVA, T. G. Results of experimenting with bait in the control of *Agriotes obscurus*. (In Russian.) *Leningrad. Inst. Zashch. Rast. Sborn. Trud.* 1: 157-160. 1948. 464.9 L542S
- 20506 GUPPY, R. Corrections and additions to "Some records of Carabidae collected on Vancouver Island." *Coleopterists' B.* 2: 75-76. Oct. 1948. 421 C674
- 20507 HABU, A. Über einige japanische Carabiden. (In Japanese.) *Mushi* 17: 91-93. July 15, 1947. 421 M97
- Includes *Licinus yezoensis* n. sp., and *Nebria macrogona shirahatai* n. var., with descriptions in German.
- 20508 HENDERSON, C. F., and KEISER, I. Adhesives for dilute and concentrated cryolite sprays used in white-fringed beetle [*Graphognathus*] control operations. *U. S. Bur. Ent. and Plant Quar. E-756*, 12 p. Oct. 1948. 1.9 En83
- 20509 HINTON, H. E. A synopsis of the genus *Tribolium* Macleay, with some remarks on the evolution of its species-groups (Coleoptera, Tenebrionidae). *Gt. Brit. Min. Agr. and Fisheries. Insect Pests Food* 7, 55 p. May 1948. 423 G794
- Includes 18 n. spp. and forms.
- 20510 HOHENLOHE-LANGENBURG, K. PRINZ ZU. Das kombinierte fangbaumsystem, eine neue methode der borkenkäferbekämpfung. *Reichsinst. f. Forst- u. Holzwirtsch. Merkl.* 4, 16 p. Apr. 1948. 99.9 R273M
- English and French summaries.
- 20511 JANNONE, G. Studies and researches in agricultural entomology in Eritrea and in Ethiopia. IV. Discovery and observations relative to *Pantomorus* (*Asynonychus*) *godmani*, Crotch 1867 (Col., Curcul.) in Eritrea. (In Italian.) *Soc. Ent. Ital. B.* 78: 18-25. Ref. May 12, 1948. 420 It1
- 20512 KAPUR, A. P. The genus *Tetrabrachys* (Lithophilus) with notes on its biology and a key to the species (Coleoptera, Coccinellidae). *Roy. Ent. Soc. London. Trans.* 99: 319-339. Ref. Sept. 30, 1948. 420 L84
- Tetrabrachys* proposed to replace *Lithophilus* Frölich, not Schneider. Includes n. spp.
- 20513 KLAPPERICH, H. Notes about German and Austrian coleopterists and collections. *Coleopterists' B.* 2: 67. Sept. 1948. 421 C674
- 20514 KLEIN, K. Achtung auf den speisebohnenkäfer [*Acanthoscelides obtectus*]! *Gart.-Z. Illus. Flora* 71: 166-167. Nov. 1948. 80 G1991
- 20515 KNOWLTON, G. F. Ladybird beetles [*Coccinellidae*] aid in pea aphid [*Macrosiphum pisi*] control. *Farm & Home Sci. [Utah Sta.]* 9(4): 17-18. Dec. 1948. 100 Ut1F
- 20516 KNOWLTON, G. F. Nitidulid beetle pests of sweet corn. *Utah. Agr. Expt. Sta. Mimeog. Ser.* 346, 1 p. Aug. 1948. 100 Ut1Mi
- 20517 LANE, M. C., and others. Studies with DDT as a control for wireworms in irrigated lands—progress report. *U. S. Bur. Ent. and Plant Quar. E-765*, 9 p. Dec. 1948. 1 En83
- M. W. Stone, H. P. Lanchester, E. W. Jones, and K. E. Gibson, joint authors.
- Limonius canus* and *Limonius californicus*.
- 20518 LANTELME, W. Erkenntnisse und erfahrungen bei der borkenkäferbekämpfung 1948 und ihre auswertungen. *Forstw., Holzw.* 2: 242-247. Aug. 15, 1948. 99.8 F7793
- Ips typographus*, *I. amitinus*.
- 20519 LADEIRO, J. M. The Portuguese Carabidae in the Zoological Museum of the University of Coimbra. (In Portuguese.) *Coimbra U. Mus. Zool. Mem. e Estud.* 185, 47 p. Ref. 1948. 410.9 C66
- 20520 LAGARRIGUE, J., and LAGARRIGUE, J. Cerambycidae de l'Aveyron. *Soc. d'Hist. Nat. B.* 82: 21-29. Oct. 30, 1947. 505 T64
- 20521 LEECH, H. B. Collecting larvae of two species of *Ditylus* (Oedemeridae). *Coleopterists' B.* 2: 66-67. Sept. 1948. 421 C674
- 20522 LEECH, H. B. Host records for *Calopus angustus* Lec. (Oedemeridae). *Coleopterists' B.* 2: 75. Oct. 1948. 421 C674
- 20523 LEECH, H. B. Ralph Hopping collection now in the California Academy of Sciences. *Coleopterists' B.* 2: 56-57. June 1948. 421 C674
- 20524 LINDNER. Richtlinien für die fichtenborkenkäferbekämpfung. *Land, Wald u. Garten* 3: 59-60. Mar. 1948. 18 L22
- 20525 LÜDECKE, H. Derbrüssler und andere schädlinge der zuckerrübe. *Neue Mitt. f. die Landw.* 3: 391. Nov. 15, 1948. 18 N39
- Cleonus punctiventris*; also *Tanymecus palliatus*, *Brachyrhinus ligustici*, *Silpha opaca*, *S. obscura*, wireworms, white grubs, *Piesma quadrata*.
- 20526 LUDIK, B. A. Ladybirds [*Epilachna dregei*] become a grain pest. (In Afrikaans.) *Landbouweekblad* 30(1532): 36. Nov. 24, 1948. 24 L232
- 20527 MCDOUGALL, W. A. Investigations in the control of wireworms (*Laeon variabilis* Cand.) in canefields with "gammexane." *Queensland J. Agr. Sci.* 4: 140-150. Ref. Dec. 1947. 23 Q37
- 20528 MCKEOWN, K. C. Australian insects. XXXIII. Coleoptera 10 - The Trogositidae. *Austral. Mus. Mag.* 9: 267-269. July/Sept. 1948. 475 Au7
- 20529 MCKINNEY, J. Good-bye grain weevils. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(11): 52. Nov. 1948. 6 So81
- 20530 MALAYAN UNION. DEPT. OF AGRICULTURE. The black beetle [*Oryctes rhinoceros*] a pest of coconut palms. *Malay. Union. Dept. Agr. Agr. Leaflet* 26, 4 p. 1947. 22.5 F31A



- 20531 MARTÍNEZ, A. Insectos nuevos o poco conocidos. VI. (Col. Scarabaeidae). Soc. Ent. Argentina Rev. 14(1/2): 3-11. May 20, 1948. 420 So14  
Includes the new genera *Scybalocanthos* and *Heterocotinis*.
- 20532 MASUDA, H. Biological notes on some Meloidae of Japan. (In Japanese.) Mushi 17: 61-77. Apr. 15, 1947. 421 M97
- 20533 MITONO, T. Description of a new Formosan longicorn-beetle (subfamily Disteniinae). (In Japanese.) Mushi 17: 77-78. Apr. 15, 1947. 421 M97  
*Cyrtionops asahinai*.
- 20534 MONRÓS, F., and VIANA, M. J. Revisión sistemática de los Hispidos argentinos (Insecta, Coleop. Chrysomeloid.). Mus. Argentino de Cien. Nat. "Bernardino Rivadavia" An. 42: 125-324. Ref. 1946/47. 516 B86A  
Includes n. spp. and forms in: *Demothispa*; *Stenispa*; *Uhmannispa* n. g.; *Sternostena*; *Anisostena*; *Anoplitis*; *Xenochalepus*; *Parabalius* n. g.; *Sternostenoides* n. g.; *Probaenia*; *Uroplata*. Also, *Nanothispa* n. g.; *Neostena*, n. sgen. in *Anisostena*.
- 20535 MONTE, T. DE. On a rare Italian species of Bembidion. (Col. Carabidae). (In Italian.) Soc. Ent. Ital. Mem. 26: 78-79. 1947. 420 It1M
- 20536 MONTE, T. DE. Third contribution to the knowledge of Palaearctic Bembidiini (Col. Carabidae). (In Italian.) Soc. Ent. Ital. B. 77: 50-64. Nov. 15, 1947. 420 It1  
Includes n. spp. and forms in Bembidion.
- 20537 MORETTI, G. Toxicity of some chlorinated compounds for the adults of *Oryzaephilus surinamensis* L. (Coleoptera - Cucujidae). (In Italian.) Soc. Ent. Ital. B. 78: 4-10. Ref. Feb. 16, 1948. 420 It1  
Tests with DDT, benzene hexachloride, chlordane, and toxaphene.
- 20538 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Wood borers. N. S. Wales. Dept. Agr. Insect Pest Leaflet 21, 6 p. 1948. 423.92 N47  
The furniture beetle (*Anobium punctatum*). The powder-post beetle (*Lyctus brunneus*). Shot-hole and pin-hole borers [Scolytidae and Platypodidae]. Other borers.
- 20539 PATTABHIRAMAN, T. V. The coffee stem borer [*Xylotrechus quadripes*, Chev.]. Planters Chron. 43: 497-500. Oct. 15, 1948. 22 P693
- 20540 PIC, M. Coléoptères du globe. Echange 64: 13-16. (Cont.) Nov. 29, 1948. 420 Ec4  
New species and forms in *Stigmatium*, *Dorcadion*, *Ebaeus*, *Dorcatoma*, *Zonabris*, *Pachybrachis*, *Matosthetus*, *Spermophagus*, *Laius*, *Attalus*, *Malachiomimus*, and *Chauliognathus*.
- 20541 PIC, M. Complément aux *Stenaspini* africains (Col. Cerambycidae). Rev. Franç. d'Ent. 15: 165-166. 1948. 421 R323
- 20542 PIC, M. Sur divers coléoptères phytophages de la République Argentine. Soc. Ent. Argentina Rev. 14 (1/2): 51-55. May 20, 1948. 420 So14  
1. Notes sur *Atelasis sagroides* Lac. 2. Observations sur les *Megalopides* et espèce nouvelle. [in *Megalopus*].
- 20543 PLANK, H. K. Life history, habits, and control of the coconut rhinoceros beetle [*Strategus quadri-foveatus*] in Puerto Rico. Puerto Rico. Fed. Expt. Sta. Mayaguez. B. 45, 35 p. Ref. Nov. 1948. 1 Ex65
- 20544 POLSTER, H. Bewegungsvermögen und flugfähigkeit des fichtenborkenkäfers. Forstw., Holzw. 2: 163-166. June 1/15, 1948. 99.8 F7793
- 20545 PUJATTI, D. Seasonal vesicobullous dermatitis due to *Paederus melampus* Er. in south India. (Coleoptera - Staphylinidae). (In Italian.) Soc. Ent. Ital. Mem. 26: 5-11. Ref. 1947. 420 It1M
- 20546 REES, B. E. The larva of *Catana clauseni* Chapin, and its comparison with the larva of *Delphastus pusillus* (Lec.) (Coleoptera, Coccinellidae). Ent. Soc. Wash. Proc. 50: 231-234. Dec. 1948. 420 W27
- 20547 RITCHER, P. O. Insects injuring straw-berries. Ky. Agr. Expt. Sta. Ky. Fruit Notes 3(6): 6-7. Oct. 1948. 100 K41K  
*Anthonomus signatus* and *Lygus oblineatus*.
- 20548 ROBERT, A. Un Dermestidé nouveau pour le Québec, le *Thyodrias contractus* Mots (Dermestidés, Coléoptères). (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 81. 1948. 517 M76
- 20549 ROBERT, A. Note sur l'émergence des *Magdalis barbata* et *M. armicollis* (Curculionidés, Coléoptères). (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 80. 1948. 517 M76
- 20550 ROBERT, A. Un nouveau parasite des herbiers (*Thyodrias contractus* Mots, Dermestidés Coléoptères). Nat. Canad. 75: 185-186. Aug./Oct. 1948. 410 N216
- 20551 ROSELLA, E. Pour augmenter la résistance au capnode [*Capnodis tenebrionis*]: il faut soigner les arbres et choisir un bon porte-greffe. Prog. Agr. et Vitic. 1948: 262-264. Nov. 7/14, 1948. 14 P94
- 20552 RUSSO, G. Zygaenid of grapes on the island of Elba. (In Italian.) Pisa. U. Facol. di Agr. Ann. (n. s.) 8: 51-55. Nov. 10, 1948. 105.4 P672  
*Theresimima ampelophaga*.
- 20553 SAMOILOVA, Z. I. Concerning the geographical expansion of *Cryptolaemus montrouzieri*. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 135-137. 1948. 464.9 L542S
- 20554 SCHMIMITSCHEK, E. Bioklimatische beobachtungen und studien bei borkenkäferauftreten. II. Wetter u. Leben 1: 97-104. July 1948. 340.8 W53  
*Ips typographus*.
- 20555 SEILER, J. Die zytologie eines parthenogenetischen rüsselkäfers, *Otiorrhynchus* [i.e. *Brachyrhinus*] *sulcatus* F. Chromosoma 3(1/2): 88-109. Ref. 1947. 442.8 C46
- 20556 SOLARI, F. New forms of *Otiorrhynchus* Germar (Col. Curcul.). (In Italian.) Soc. Ent. Ital. B. 77: 2-8. June 4, 1947. 420 It1
- 20557 SOLARI, F. New or little known curculionids of the Palaearctic fauna. XIII. Preliminary notes on *Miarus* and a new genus of *Mecini* [*Miaromimus*]. (In Italian.) Soc. Ent. Ital. Mem. 26(sup.): 72-79. 1947. 420 It1M
- 20558 SOLARI, F. A new subgenus of *Otiorrhynchus* Germar (Col. Curcul.). (In Italian.) Soc. Ent. Ital. Mem. 26: 75-77. 1947. 420 It1M  
*Rhinotournieria*, with n. spp. and forms.
- 20559 SOLARI, F. Notes on *Stomodes* Schönherr (Col. Curcul.). (In Italian.) Soc. Ent. Ital. B. 77: 17-20. July 10, 1947. 420 It1
- 20560 STARK, V. N. Biological basis for the bait method of control. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 150-156. 1948. 464.9 L542S  
Experiments with *Agriotes obscurus*.
- 20561 VAURIE, P. A review of the North American *Languriidae*. Amer. Mus. Nat. Hist. B. 92: 121-155. Ref. 1948. 500 N483B
- 20562 VIEBIG, J. Der tannenborkenkäfer [*Ips curvidens*] und seine bekämpfung. Allg. Forstz. 3: 175-176. Sept. 1, 1948. 99.8 AL52
- 20563 WEDDELL, J. A. Control the banana weevil borer [*Cosmopolites sordidus*]! Queensland Agr. J. 67: 146-149. Sept. 1948. 23 Q33
- 20564 WELLENSTEIN, G. Borkenkäfer-bekämpfung in Württemberg. I-II. Forstw., Holzw. 2: 86-88, 153-157. Mar. 1/15, May 15, 1948. 99.8 F7793
- 20565 WELLENSTEIN, G. Die wichtigsten gesichtspunkte zur borkenkäferabwehr im winter. Forstw., Holzw. 2: 88-89. Mar. 1/15, 1948. 99.8 F7793
- 20566 WITTMER, W. 5. beitrage zur kenntnis der Neotropischen Malacodermata. Soc. Ent. Argentina Rev. 14(1/2): 17-21. May 20, 1948. 420 So14  
Includes n. spp. in *Phrixothrix*, *Cryptotarsus*, *Lemphus*, and *Attalus*.
- 20567 WITTMER, W. Supplement au catalogue des *Drilidae* E. Oliv. (Col. Malacodermata). Soc. Ent. Argentina Rev. 14(1/2): 115-116. May 20, 1948. 420 So14
- 20568 ZIEGER, E. Zu: "Ein verfahren der borkenkäferbekämpfung." Forstw., Holzw. 2: 83-86. Mar. 1/15, 1948. 99.8 F7793
- 20569 ZIEGER, E. Ein neues verfahren der borkenkäferbekämpfung. Forstw., Holzw. 1: 225-228. Nov. 1, 1947. 99.8 F7793
- 20570 ZIKÁN, J. F. The genus *Parandra* Latr., 1804, with a description of 14 new species. (Col., Cerambyc.). (In Portuguese.) Soc. Ent. Argentina Rev. 14(1/2): 22-50. May 20, 1948. 420 So14
- 20571 ZIMMERMAN, A. H. Pine tree killers. Prog. Farmer, Ga.-Ala.-Fla. Ed. 63(11): 19. Nov. 1948. 6 P945G  
*Dedroctonus frontalis*.
- 20572 ZUMPT, F. Der hausbock [*Hylotrupes bajulus*]. Reichsinst. f. Forst- u. Holzwirtschaft. Merkbl. 2, 20 p. Nov. 1947. 99.9 R273M  
English, French, and Spanish summaries.



## DIPTERA

- 20573 ADLER, S. Cutaneous leishmaniasis. Internat. Cong. Trop. Med. and Malaria. Abs. 4: 88-89. 1948. 150.1 C766  
Transmitted by *Flebotomus* spp.
- 20574 ALEXANDER, C. P. The crane-flies of New Caledonia (Diptera, Tipulidae). Roy. Ent. Soc. London. Trans. 99: 361-393. Ref. Nov. 8, 1948. 420 L84  
Includes n. spp. in *Macromastix*, *Plusiomyia*, *Phacelodocera*, *Limonia*, *Helius*, *Epiphragma*, *Gynoplistia*, *Gonomyia*, *Gymnastes*, *Molophilus*, and *Styringomyia*; also *Idiohelius*, n. sgen. in *Helius*.
- 20575 ALEXANDER, C. P. Undescribed species of the crane-flies from the western United States and Canada (Dipt.: Tipulidae). X. Ent. News [Philadelphia] 59: 207-215. Oct. 1948. 421 En88  
Includes n. spp. in *Limnophila*, *Gonomyia*, *Erioptera*, and *Molophilus*.
- 20576 ALIBERT, H. Contribution supplémentaire à la lutte contre la mouche des fruits [*Ceratitis capitata*]. Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc. 18: 231. July/Aug. 1948. 80 F9482
- 20577 BEAULIEU, A., MONRO, H. A. U., and DELISLE, R. Valeur toxique sur *Musca domestica* L. des résidus du DDT arrosé sur des surfaces de nature différente. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 79. 1948. 517 M76
- 20578 BETTINI, S. Contribution to the study of the resistance to action of DDT in the housefly [*Musca domestica*]. (In Italian.) Riv. di Parassitol. 9: 137-142. Sept. 1948. 436.8 R52  
French and English summaries.
- 20579 BLUMEL, J., and KIRBY, H. Amino acid constituents of tissues and isolated chromosomes of *Drosophila*. Natl. Acad. Sci. Proc. 34: 561-566. Ref. Dec. 1948. 500 N21P
- 20580 BRUCE, W. G. Flies as pests and disease carriers. Internat. Cong. Trop. Med. and Malaria. Abs. 4: 133-134. 1948. 150.1 C766
- 20581 BURLA, H. Die gattung *Drosophila* in der Schweiz. Rev. Suisse de Zool. 55: 272-279. July 1948. 410 R324
- 20582 BUXTON, P. A. The problem of tsetse flies [*Glossina*]. Internat. Cong. Trop. Med. and Malaria. Abs. 4: 133. 1948. 150.1 C766
- 20583 CHEN, S. Y. Action de la température sur trois mutants à panachure de *Drosophila melanogaster*: w<sup>258-18</sup>, w<sup>m5</sup> et z. B. Biol. de la France et Belg. 82: 114-129. Ref. 1948. 473 B87
- 20584 DAVIES, L. Laboratory studies on the egg of the blowfly *Lucilia* [i.e. *Phaenicia*] sericata (Mg.) J. Expt. Biol. 25: 71-85. Ref. Mar. 1948. 442.8 B77
- 20585 DAVIES, L. Observations on the development of *Lucilia* [i.e. *Phaenicia*] sericata (Mg.) eggs in sheep fleeces. J. Expt. Biol. 25: 86-102. Mar. 1948. 442.8 B77
- 20586 DOVE, W. E. Improved smear kills more screwworms [*Callitroga americana*]. Prog. Farmer, Miss.-Ark.-La. Ed. 63(11): 110. Nov. 1948. 6 So81  
Improvement on Smear 62 contains piperonyl butoxide and pyrethrins.
- 20587 DUPUIS, C. Remarques sur le mode de spécificité parasitaire des Phasiinae (Diptères Larvaevoridae). B. Biol. de la France et Belg. 82: 130-140. Ref. 1948. 473 B87  
Parasitic on Heteroptera.
- 20588 DU TOIT, E. Bush-clearing for nagana control in Zululand. Farming So. Africa 23: 581-585. Sept. 1948. 24 So842  
Means of controlling tsetse fly (*Glossina*) vector.
- 20589 GEIGY, R. Élevage de *Glossina palpalis*. Acta Trop. 5: 201-218. 1948. 475 Ac8  
German summary.
- 20590 HEISCH, R. B. Rhodesian sleeping sickness in Kenya Colony. J. Trop. Med. & Hyg. [London] 51: 225-227. Nov. 1948. 448.8 J827  
*Glossina swynnertoni* probably vector of *Trypanosoma rhodesiense*.
- 20591 HERTIG, M. Sand flies of the genus *Phlebotomus* [i.e. *Flebotomus*]-a review of their habits, disease relationships and control. Internat. Cong. Trop. Med. and Malaria. Abs. 4: 131-132. 1948. 150.1 C766
- 20592 HOLLAND, W. C. Destroy that fruit and help control fruit fly [*Dacus tryoni*]. A simple incinerator for orchard or general use. West. Austral. Dept. Agr. Leaflet 912, 3 p. Perth, 1947. 23 W52B
- 20593 JANNONE, G. Studies and researches in agricultural entomology in Eritrea and in Ethiopia. III. Observations on two Diptera parasitic at the same time on the fruit of *Momordica schimperiana* (?) Naud. and on a symbiont of one of them. (In Italian.) Soc. Ent. Ital. Mem. 26(sup.): 63-69. 1947. 420 It1M  
*Dacus brevistylus* and *Lonchaea laevis*, with *Tetrastichus* parasitic on the former.
- 20594 KERR, R. W. The effect of starvation on the susceptibility of houseflies [*Musca domestica*] to pyrethrum sprays. Austral. J. Sci. Res. Ser. B. Biol. Sci. 1: 76-92. Feb. 1948. 442.8 Au72
- 20595 KRUSÉ, C. W. The airplane application of DDT for emergency control of common flies in the urban community. Pub. Health Rpts. 63: 1535-1550. Nov. 26, 1948. 151.65 P96
- 20596 LE CALVEZ, J. In (3R) ssAr: mutation "aristapeda" hétérozygote dominante, homozygote létale chez *Drosophila melanogaster*. (Inversion dans le bras droit du chromosome III). B. Biol. de la France et Belg. 82: 97-113. Ref. 1948. 473 B87
- 20597 LE CALVEZ, J. Morphologie et comportement des chromosomes dans la spermatogenèse de quelques Mycetophilides. Chromosoma 3(1/2): 137-165. 1947. 442.8 C46
- 20598 LE ROI, D. Fighting the warble pest. Dairyman 65: 500-502. Nov. 1948. 44.8 D1426  
*Hypoderma bovis* and *H. lineatum*.
- 20599 MACKERRAS, M. J., and MACKERRAS, I. M. Simuliidae (Diptera) from Queensland. Austral. J. Sci. Res. Ser. B. Biol. Sci. 1: 231-270. Ref. May 1948. 442.8 Au72  
Includes n. spp. and forms in: *Cnephia*, *Simulium*, and *Austrosimulium*.
- 20600 MAHEUX, G. Santé et bien-être grâce à la guerre aux mouches! Paysana 2(5/6): 8-9. July/Aug. 1948. 7 P29
- 20601 MARCUZZI, G. Description of three new species of *Smittia* from the Lagoon of Venice (Dipt., Chironomidae). (In Italian.) Soc. Ent. Ital. B. 77: 9-13. June 4, 1947. 420 It1
- 20602 MARIANI, M. On the variability of the wings of *Flebotomus* (*Prophlebotomus*) *minutus* Rondani (= *italicus* Adler and Theodor) (Diptera - Psychodidae). (In Italian.) Soc. Ent. Ital. B. 77: 20-23. July 10, 1947. 420 It1
- 20603 MAZZOTTI, L. The epidemiological aspects of onchocerciasis in Mexico. Internat. Cong. Trop. Med. and Malaria. Abs. 4: 75. 1948. 150.1 C766  
Transmitted by *Simulium* spp.
- 20604 MAUZE, J. Apparition de *Cochliomyia hominivorax* [i. e. *Callitroga americana*] en Guadeloupe. Soc. de Path. Exot. B. 41: 502-504. 1948. 448.9 So13
- 20605 MINER, L. H. Fly control. Horse Lover 13(1): 28-29. June/July 1948. 42.8 H7852  
DDT.
- 20606 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Garden maggots (*Bibio* imitator and *Neoeuxiorea spinigera*). N. S. Wales. Dept. Agr. Insect Pest Leaflet 83, 2 p. Sydney, 1948. 423.92 N47
- 20607 ROWE, J. A. Fundamentals of community fly control. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 11-14. 428 C763
- 20608 RUBTSOV, I. A. Symbiosis of larvae and pupae of midges with mayflies. (In Russian.) Priroda 37(10): 77-80. Oct. 1948. 410 P933  
*Simulium* ephemerophilum developing on wing pad of Iron sp.
- 20609 RUSSO, G. *Dacus oleae* infestation in the Provinces of Pisa, Leghorn and Grosseto in 1946. (In Italian.) Pisa. U. Facol. di Agr. Ann. (n. s.): 56-68. Nov. 10, 1948. 105.4 P672
- 20610 SABROSKY, C. W. The identity of "*Sarcophaga vericauda* Coquillett" (Diptera, Sarcophagidae). Ent. Soc. Wash. Proc. 50: 248. Dec. 1948. 420 W27  
Specimens so labeled are *S. kellyi*, *S. impar*, or *S. eherminieri*.
- 20611 SCHARFF, D. K. A discussion of cattle grub [*Hypoderma*] problems and investigations. Mont. Stock-grower 20(12): 8, 10-11. Dec. 15, 1948. 49 M76
- 20612 SEN GUPTA, P. C. Researches on kala-azar in India, 1938-48. Internat. Cong. Trop. Med. and Malaria. Abs. 4: 89-90. 1948. 150.1 C766  
Transmission by sand flies (*Flebotomus*?) established.



20613 SOÓS, Á. Bestimmungstabelle für die paläarktischen arten der "gattungsgruppe" Psila. (Dipt.). Folia Ent. Hungar. 2: 73-76. 1947. 420 So12

20614 VARGAS, L. Nota sobre biología y control de los Simúlidos. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 132-133. 1948. 150.1 C766  
Vectors of disease.

20615 VERGANI, A. R. Las moscas de las frutas. Vinos, Viñas y Frutas 44: 196-197. Oct. 1948. 9 Ag89  
Control of Tephritidae.

Also in Bolsa de Com., Rosario. Rev. 36(884): 15-16. Nov. 15, 1948. 287 R71

20616 VOGT, M. Zur labilen determination der imaginalscheiben von Drosophila. V. Beitrag zur manifestierung der mutante antennales. Biol. Zentbl. 66: 388-395. 1947. 442.8 B523

20617 WAGENINGEN, PLANTENZIEKTENKUNDIGE DIENST. De aspergevlieg (Platyparaea poeciloptera Schrk) [The asparagus fly, Platyparaea poeciloptera]. Netherlands. Plantenziektenkund. Dienst. Vlugsch. 56, 4 p. Sept. 1948. 464.9 W12V

20618 WALSHE, B. M. The oxygen requirements and thermal resistance of chironomid larvae from flowing and from still waters. J. Expt. Biol. 25: 35-43. Ref. Mar. 1948. 442.8 B77

20619 WATERHOUSE, D. F. The effect of colour on the numbers of houseflies [Musca domestica] resting on painted surfaces. Austral. J. Sci. Res. Ser. B. Biol. Sci. 1: 65-75. Feb. 1948. 442.8 Au72

#### Culicidae

20620 AARONS, T. Cemetery mosquito control by aerosol. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 84-85. 428 C763

20621 AFRIDI, M. K. Mosquito problems in the Far East. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 130. 1948. 150.1 C766

Biology of anopheline disease vectors in India.

20622 ANTUNES, W. S. S. Control de la fiebre amarilla en el campo. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 38-39. 1948. 150.1 C766

Includes control of Aedes aegypti with DDT.

20623 AZIZ, M. The island-wide Anopheles eradication program in Cyprus. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 56-57. 1948. 150.1 C766

20624 BIJLMER, J., and KRAAN, H. Is the gametocyte production of Plasmodium vivax influenced by elimination of the mosquito passage? J. Trop. Med. & Hyg. [London] 51: 222-225. Nov. 1948. 448.8 J827

20625 BRADLEY, G. H. Mosquito control in the United States. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 131. 1948. 150.1 C766

20626 BRISOU, J., CASTET, A., and AUTHEMAN, R. Expérimentation d'un nouveau produit antilarvaire. Soc. de Path. Exot. B. 41: 485-487. 1948. 448.9 So13

Control of mosquito larvae with Gyron, a dust containing DDT.

20627 BROMLEY, S. W. Insect predators of mosquitoes. Ent. Soc. Wash. Proc. 50: 235-238. Dec. 1948. 420 W27

20628 BROOKMAN, B. Attempts at insectary rearing of Culex tarsalis. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 79-81. 428 C763

20629 BUCHANAN, W. J. A year and a half of progress in vector control. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 86. 428 C763

20630 CALIFORNIA MOSQUITO CONTROL ASSOCIATION. Proceedings and papers of the sixteenth annual conference, Berkeley, California, February 12-14, 1948. Berkeley, 1948. 89 p. 428 C763

20631 CALIFORNIA UNIVERSITY. GEORGE WILLIAMS HOOPER FOUNDATION. A final summary of flight range studies on Culex tarsalis and notes on wild bird malaria in Kern County. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 58-59. 428 C763

Disease Laboratory of the Bureau of Game Conservation, California Division of Fish and Game, cooperating.

20632 CAMBOURNAC, F. J. C., and FONSECA, A. E. DA. Experiments on the control of anopheline larvae and malaria in the rice-growing regions of Portugal. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 55-56. 1948. 150.1 C766

20633 CAMPBELL, E. The place of permanent control in overall programs. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 74-75. 428 C763

20634 CHOW, C. Y. The bionomics of two important malaria vectors in China. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 54-55. 1948. 150.1 C766

Anopheles minimus, A. hyrcanus sinensis.

20635 CORRADETTI, A. Observations on the food preferences of Anopheles pseudopunctipennis and Anopheles punctimacula in Peru. (In Italian.) Riv. di Parassitol. 9: 129-135. Sept. 1948. 436.8 R52

French and English summaries.

20636 DICKINSON, W. H.; MERRITT, D., and HOUGH, J. Observations on a TIFA used by the Consolidated Mosquito Abatement District. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 76-77. 428 C763

Todd insecticidal fog applicator.

20637 DOW, R. P. Virus recoveries. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 78-79. 428 C763

Western equine encephalomyelitis virus in Culex tarsalis, etc.

20638 EWING, W. C. Problems of administration of a large district. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 83. 428 C763

20639 FERGUSON, F. F., SIMMONS, S. W., and UPHOLT, W. M. Some physical factors in the deposition of DDT mists as mosquito larvicides. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 59-62. Ref. 428 C763

20640 FOURNIER, O. Campagne contre les Culicidés dans la région de Montréal. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 80. 1948. 517 M76

20641 GABALDON, A. Global malaria problem in the Neotropical Region. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 70-71. 1948. 150.1 C766

Role of Anopheles spp. as vectors.

20642 GAGE, A. Applicability of techniques of military malaria control to industrial developments and rural populations. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 63-64. 1948. 150.1 C766

Includes mosquito control.

20643 GALLIARD, H., and HUARD, P. Research on filariasis in Indochina. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 74-75. 1948. 150.1 C766

Mosquitoes as vectors of Wuchereria spp.

20644 GALVAO, A. L. A. Recent or contemporaneous active or passive dispersion of anopheline species. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 52. 1948. 150.1 C766

20645 GAUD, J. Fréquence au Maroc et rôle vecteur possible d'Anopheles sergenti Theo. Soc. de Path. Exot. B. 41: 498-501. 1948. 448.9 So13

20646 GAUD, J. Rythmes saisonniers d'activité d'Anopheles maculipennis et d'A. claviger au Maroc en fonction de l'altitude. Soc. de Path. Exot. B. 41: 495-498. 1948. 448.9 So13

20647 GEIB, A. F. Activities of the California Mosquito Control Association—1947. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 31-39. 428 C763

20648 GEIB, A. F. Experiences in the use of airplanes in the Kern Mosquito Abatement District. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 63-66. 428 C763

20649 GILLETTE, H. P. S. The control of bromeliad malaria in Trinidad, B. W. I. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 52-53. 1948. 150.1 C766

Transmitted by Anopheles bellator.

20650 GRAY, H. F. How California compares in mosquito control with other regions. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 56-58. 428 C763

20651 HALVERSON, W. L. California mosquito control strides during 1947; the outlook for 1948. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 2-4. 428 C763

20652 HAMILTON, S. The use of D. D. T. emulsion as a larvicide for malaria control. So. African Sugar J. 32: 615, 617, 619. Oct. 1948. 65.8 So8

20653 HERMS, W. B. Public relations in mosquito control operations. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 51-54. 428 C763

20654 HOSKINS, W. M. New insecticides—their place in mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 18-20. 428 C763

20655 ISENHOUR, L. L. New insecticides—their place in mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 20. 428 C763



- 20656 JONES, P. Marin County Mosquito Abatement District's rebirth. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 85. 428 C763
- 20657 KIKER, C. C. Management of water to control anopheline mosquito breeding. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 66-67. 1948. 150.1 C766
- 20658 KIMBALL, J. H. Problems encountered in getting Orange County Mosquito Abatement District under way. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 83. 428 C763
- 20659 KING, W. V. Man-made malaria. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 65-66. 1948. 150.1 C766
- Carelessness in controlling mosquito breeding places.
- 20660 KOMP, W. H. W. The anopheline vectors of malaria of the world. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 51. 1948. 150.1 C766
- 20661 KRÜPE, M., and LÖPMANN, A. Imagines-bekämpfung der Anophelen im sinne der "malariadesinfektion" mit den DDT-präparaten. Z. f. Hyg. u. Infektionskrankh. 127: 262-272. 1947. 449.8 Z3
- 20662 LEE, D. M. Report from Portland and elsewhere in Oregon. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 44-46. 428 C763
- 20663 LINDQUIST, A. W. New insecticides—their place in mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 17-18. 428 C763
- 20664 LINDQUIST, A. W., ROTH, A. R., and YATES, W. W. DDT as a prehatching treatment for control of snow-water mosquitoes [*Aedes* spp.]. U. S. Bur. Ent. and Plant Quar. E-760, 2 p. Oct. 1948. 1.9 En83
- 20665 LIVADAS, G. A. Élonosia en Elladi (1946-47). Epeunai-katapolemēsis [Malaria in Greece (1946-47). Research - control]. Athens, 1948. 45 p. 448 L74E
- In Greek and English.
- Contents: Results of malaria control activities in Greece during 1946 on basis of epidemiological data, with G. D. Belios, Ph. Koroghiannaki, and C. Valla, joint authors, p. 27-40; Malaria control in Greece during 1947, p. 41-45.
- Includes use of DDT for mosquito control.
- 20666 LIVADAS, G. A., and BELIOS, G. D. Postwar malaria control in Greece on basis of epidemiological data. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 68-69. 1948. 150.1 C766
- Use of DDT.
- 20667 MCGOWAN, T. F. Use of military amphibious vehicles, "weasels," in mosquito abatement operations. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 78. 428 C763
- 20668 MAGY, H. I. A comparison of the use of the thermal exhaust aerosol plane and the spray plane in mosquito larvae control in Kern County and the Sutter-Yuba Mosquito Abatement District. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 69-71. 428 C763
- 20669 MANSO SOTO, A. E., and MARTÍNEZ, A. Estudios sobre mosquitos de la ciudad de Buenos Aires. Buenos Aires. U. Misión de Estud. de Patol. Region. P. 19(73): 39-49. 1948. 448.9 B862
- 20670 MICHELbacher, A. E. Possible effects of new insecticides used in mosquito control on economic entomology. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 20-22. 428 C763
- 20671 MONDALA, M. Report from State of Washington. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 46. 428 C763
- 20672 MOORE, J. A. Malaria morbidity in California. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 6-8. 428 C763
- Anopheles maculipennis freeborni* and *A. punctipennis* chief vectors.
- 20673 MULHERN, T. D. A report from the American Mosquito Control Association. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 40-41. 428 C763
- 20674 PENIDO, H. M. Malaria control in the Rio Doce Valley, Brazil. Internatl. Cong. Trop. Med. and Malaria. Abs. 63. 1948. 150.1 C766
- Includes mosquito control.
- 20675 PENN, G. H. Biological notes on "dry season" mosquitoes from Caminawit Point, Mindoro, P. I. (Diptera, Culicidae). Ent. Soc. Wash. Proc. 50: 241-248. Dec. 1948. 420 W27
- 20676 RALEY, T. G. Public relations in action. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 55-56. 428 C763
- 20677 REES, D. M. Mosquito problems in Japan and Okinawa during 1947. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 47-49. 428 C763
- 20678 REES, D. M. Report from Utah (with a detour to Japan). Calif. Mosquito Control Assoc. Proc. & Papers 1948: 46-47. 428 C763
- 20679 ROBERTS, F. H. S. The distribution and seasonal prevalence of anopheline mosquitoes in North Queensland. Roy. Soc. Queensland. Proc. 59: 93-100. Ref. Aug. 16, 1948. 514 B775
- 20680 RUSSELL, E. M. Special devices for facilitating mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 83-84. 428 C763
- 20681 RUTH, P. W., and DORER, R. E. Mosquito control in Virginia. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 41-42. 428 C763
- 20682 SCHWETZ, J. L'état actuel du problème paludéen au Congo Belge, resp. en Afrique centrale. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 71. 1948. 150.1 C766
- Anopheline vectors.
- 20683 SCHWETZ, J. Recherches sur le paludisme endémique et le paludisme épidémique dans le Ruanda-Urundi. Inst. Roy. Colon. Belge. Sect. des Sci. Nat. et Méd. Mém. 17(1), 141 p. Bruxelles, 1948. 504 B8362M
- Includes discussion of mosquito vectors.
- 20684 SHORTT, H. E. The pre-erythrocytic cycle of *Plasmodium cynomolgi*. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 49. 1948. 150.1 C766
- Transmitted by *Anopheles maculipennis atroparvus*.
- 20685 SMITH, E. A. Aerial spray operations in Merced County, California. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 66-69. 428 C763
- 20686 SMITH, G. F. The value of entomological records in mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 75-76. 428 C763
- 20687 SMITHBURN, K. C. Neurotropic viruses in Central Africa. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 44-45. 1948. 150.1 C766
- Relation to mosquitoes.
- 20688 SÖPER, F. L. Species sanitation as applied to the eradication of (a) an invading or (b): and indigenous species. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 65. 1948. 150.1 C766
- Mosquitoes.
- 20689 SPERBECK, T. M. Rice field control, present and future. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 81-82. 428 C763
- 20690 SYMPOSIUM: Use of airplane for mosquito control. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 62-71. 428 C763
- 20691 TAYLOR, R. M., and THEILER, M. The epidemiology of yellow fever. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 39. 1948. 150.1 C766
- Aedes* and *Haemagogus* spp. as vectors.
- 20692 VANNOTE, R. L., and PEPPER, B. B. Mosquito control in New Jersey. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 42-44. 428 C763
- 20693 VANNOTE, R. L. Report from American Mosquito Control Association. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 39-40. 428 C763
- 20694 VISWANATHAN, D. K. Bombay Provincial Malaria Organisation, 1942-47. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 67-68. 1948. 150.1 C766
- Anopheles fluviatilis* chief vector.
- 20695 WILSON, R. Headaches of California mosquito control in contrast to those of southern United States. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 73-74. 428 C763
- 20696 YATES, W. W. A comparison of the toxicity of DDT, TDE and the methoxy analog of DDT to several species of mosquitoes. Calif. Mosquito Control Assoc. Proc. & Papers 1948: 49-51. 428 C763
- 20697 YOUNG, M. D. Adaptability of exotic parasites to indigenous anophelines. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 53-54. 1948. 150.1 C766
- Plasmodium vivax* in *Anopheles quadrimaculatus* and *A. maculipennis freeborni*, etc.

## HEMIPTERA (HETEROPTERA AND HOMOPTERA)

- 20698 ALEKSEEV, I. A. Investigation of the effectiveness of combined use of *Symphorobius amicus* [with *Cryptolaemus montrouzieri*] in *Pseudococcus comstocki* control in Uzbek SSR. (In Russian.) Lenin-grad. Inst. Zashch. Rast. Sborn. Trud. 1: 116-120. 1948. 464.9 L542S



- 20699 BABAIAN, A. S. Importance of nutrition for the survival and fertility of *Eurygaster integriceps*. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 144-149. 1948. 464.9 L542S
- 20700 BONNEMAISON, L. Remarques sur la diapause chez un hémiptère: *Eurydema ornatum* L. Paris. Acad. des Sci. Compt. Rend. 227: 985-987. Nov. 8, 1948. 505 P21
- 20701 BROWN, E. S. A contribution towards an ecological survey of the aquatic and semi-aquatic Hemiptera-Heteroptera (water-bugs) of the British Isles; dealing chiefly with the Scottish Highlands, and east and south England. Soc. Brit. Ent. Trans. 9: 151-195. Ref. Sept. 20, 1948. 420 Sc15
- 20702 CHAPONNIER. Révision de la Convention Phylloxérique Internationale. Off. Internatl. du Vin. B. 21(212): 29-30. Oct. 1948. 390.8 B87
- 20703 CARLO, J. A. DE Los Ranatridae de Sud America (Hemiptera). Mus. Argentino de Cien. Nat. "Bernardino Rivadavia" An. 42: 1-39. 1946/47. 516 B86A
- Includes five n. spp. in Ranatra.
- 20704 DELONG, D. M., and HERSHBERGER, R. V. A new genus, *Dampfiana*, and new species of leafhopper related to *Stoneana* (Homoptera, Cicadellidae). Ent. Soc. Wash. Proc. 50: 229-230. Dec. 1948. 420 W27
- 20705 DIAS, E., and LARANJA, F. S. Chagas' disease and its control. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 91-92. 1948. 150.1 C766
- Transmitted by blood-sucking Hemiptera.
- 20706 EBELING, W., and PENCE, R. J. Mealybug [*Pseudococcus longispinus*] control. Calavo News 1948: 2-3. Nov. 30, 1948. 280.28 C12
- 20707 ESAKI, T. Hemiptera Micronesica. II. Cica-didae. (In Japanese.) Mushi 17: 29-38. Apr. 15, 1947. 421 M97
- Includes *Melampsalta yapensis* and *M. yasumatsui* n. spp. with English descriptions.
- 20708 ESAKI, T., and ISHIHARA, T. Species nova vel minus cognita Araeopidarum Japonicarum (Hemiptera). (In Japanese.) Mushi 17: 39-42. Apr. 15, 1947. 421 M97
- Nilaparvata bakeri*; *Delphacodes longifurcifer* n. sp.
- 20709 EVANS, J. W. A new leaf-hopper from Victoria [*Nesocluha obscura*, n. g., n. sp.] (Homoptera, Jassidae). Melbourne Natl. Mus. Mem. 1947(15): 126-127. Oct. 1947. 514 M484
- 20710 FLACHS, K. San José-schildlaus [*Aspidiotus perniciosus*], die neue gefahr. Deut. Landw. Presse 71(5): 1-2. Sept. 4, 1948. 18 D482
- 20711 FLOCH, H., and ABONNENC, E. Trypanosome de *D[idelphis] marsupialis* dont les formes métacycliques chez *R[hodnius] prolixus* et *T[riatoma] rubrofasciata* ressemblent à celles de *T[rypanosoma] myrmecophagae*. Inst. Pasteur de la Guyane et du Ter. de l'Inini. P. 171, 4 p. Apr. 1948. 448.9 In77
- 20712 FORTEZA, B. Noticias sobre la invasión filoxérica en Mallorca. II. Balearic Isl. Diputación Prov. B. de Agr. 46: 3-4. July 1948. 15 B19
- 20713 FREZAL, P. Destruction des Phylloxéras gallicoles. Algeria. Inst. Agr. Ann. 4(4), 8 p. Ref. July 1948. 108 AL35
- 20714 FRINGS, H., GOLDBERG, E., and ARENTZEN, J. C. Antibacterial action of the blood of the large milkweed bug [*Oncopeltus fasciatus*]. Science 108: 689-690. Dec. 17, 1948. 470 Sc12
- 20715 GAMBARO, P. The biological cycle of *Aspidiotus perniciosus* Comst. in the Veronese. (In Italian.) Soc. Ent. Ital. Mem. 26(sup.): 48-58. 1947. 420 It1M
- 20716 GOOT, P. VAN DER. Biological control of a mealybug (*Phenacoccus iceryoides* Green) on coffee in the Toradja District (South Celebes). (In Dutch.) East Indies (Dutch). Alg. Proefsta. v. Landb. Meded. 64, 12 p. Ref. 1948. 109.5 Ea73
- English summary.
- 20717 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Fruit tree capsid bugs. Gt. Brit. Min. Agr. & Fisheries. Adv. Leaflet 154, 6 p. Oct. 1948. 10 G79La
- Plesiocoris rugicollis*; *Lygus pabulinus*.
- 20718 GRIFFITH, M. E. The bloodsucking conenose, or "big bedbug," *Triatoma sanguisuga* (Leconte), in an Oklahoma city household. Okla. Acad. Sci. Proc. 28: 24-27. 1948. 500 Ok42
- 20719 GUNN, W. C. The uses of D. D. T. in bug [*Cimex lectularius*] extermination in slum properties. Med. Off. 80: 251-252. Dec. 4, 1948. 448.8 M462
- 20720 HELM, A. Die kohlblattlaus [*Brévicoryne brassicae*] bedroht unsere kohlernte! Thür. Gartenbau 1947(10): 3-4. Aug. 15, 1947. 80 T42
- 20721 HYNES, H. B. N. Notes on the aquatic Hemiptera-Heteroptera of Trinidad and Tobago, B. W. I., with a description of a new species of *Martarega* B. White (Notonectidae). Roy. Ent. Soc. London. Trans. 99: 341-360. Ref. Oct. 11, 1948. 420 L84
- 20722 IATSENKO, I. P. On determining the minimum forward speed of *Eurygaster integriceps* catchers. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 262-270. 1948. 464.9 L542S
- 20723 IATSENKO, I. P. Testing of *Eurygaster integriceps* catchers. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 271-278. 1948. 464.9 L542S
- 20724 IVANOVA, N. A., and BOGDARINA, A. A. Thermic method of *Pseudococcus comstocki* control. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 252-261. 1948. 464.9 L542S
- Experiments with steam.
- 20725 JENSEN, A. S. *Chermes abietis* galls and squirrels. Danske Vidensk. Selsk. Biol. Med. 20(13), 15 p. Ref. København, 1948. 442.9 D23
- 20726 KERSTENS, J. Now especially fight the aphids! H.E.T.P. at present better than nicotine. (In Dutch.) Boer en Tuinder 2(90): 3. Sept. 25, 1948. 12 B632
- 20727 KNOWLTON, G. F. Dodder aphids. Great Basin Nat. 3(1/4): 36. Dec. 30, 1948. 410 G79
- Aphis middletoni*, *A. medicaginis*, *A. helianthi*.
- 20728 MALENOTTI, E. Anthracene oil and *Aspidiotus perniciosus*. (In Italian.) Inform. Agr. 4(18): 4. Oct. 15, 1948. 281.8 In32
- 20729 MALTAIS, J. B. Le rapport glucide: azote dans la sève de pois et la résistance relative des variétés au puceron Illinois pisi Kalt. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 77-78. 1948. 517 M76
- 20730 MANCINI, C. Winter collecting around Perugia. Hemiptera. (In Italian.) Soc. Ent. Ital. B. 77: 35-45. Sept. 30, 1947. 420 It1
- 20731 MANSO SOTO, A. E. Enfermedad de Chagas—su difusión en nuestro país. Buenos Aires. U. Misión de Estud. de Patol. Region. P. 19(73): 7-12. 1948. 448.9 B862
- Triatoma* as vector.
- 20732 MASPOLI, A. O. *Margarodes vitium* Giard. Vinos, Viñas y Frutas 44: 192-193, 195. (Concl.) Oct. 1948. 9 Ag89
- 20733 MEIER, N. F. Biological method of control of *Pseudococcus comstocki*. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 83-89. 1948. 464.9 L542S
- 20734 MÜNCHBERG, P. Die kartoffelkellerlaus—ein neuer schädling. Neue Mitt. f. die Landw. 3: 390. Nov. 15, 1948. 18 N39
- Rhopalosiphoninus latysiphon* (?).
- 20735 POISSON, R. *Hydrocorises* du Cameroun (Mission J. Carayon 1947). Rev. Franç. d'Ent. 15: 167-177. 1948. 421 R323
- New spp. in: *Eurymetropsis* n. g.; *Carayonella* n. g.; *Hydrometra*; *Anisops*.
- 20736 RIBAUT, H. Une espèce nouvelle du genre *Erythroneura* (Homoptera ~ Typhlocybidae). Soc. Ent. Ital. Mem. 26: 16. 1947. 420 It1M
- 20737 ROUSCHAL, W. Ein gefährlicher obstbaum-schädling, die San-José-schildlaus [*Aspidiotus perniciosus*] auch in Salzburg. Salzburg. Bauer 3(46): 7. (To be cont.) Nov. 11, 1948. 19 Sa3
- 20738 RUI, D. At the Simpon Pass, the San José scale [*Aspidiotus perniciosus*] has stopped 33 wagons of Italian fruit. (In Italian.) Humus 4(10): 22-23. Oct. 1948. 16 H88
- 20739 SHABANOVA, M. P. Improvement of soil fumigation method in Phylloxera control. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 213-232. Ref. 1948. 464.9 L542S
- 20740 SIBILLE, A. La cochenille australienne en Alsace. Agriculture [Paris] 12: 363, 365. Nov. 1948. 14 Ag823
- Icerya purchasi*.



20741 STOFBERG, F. J. Scale control on citrus trees. Do oil-sprays affect yield and quality of fruit? Farming So. Africa 23: 603-606. Sept. 1948. 24 So842

20742 TAMANINI, L. Contribution to a revision of the genus *Velia* Latr. and description of some new species. (Hemiptera Heteroptera, Velidae). (In Italian.) Soc. Ent. Ital. Mem. 26: 17-74. Ref. 1947. 420 It1M  
Includes *Macrovelia*, n. sgen.

20743 TAPIA, E. A. *Cochinilla roja australiana*, *Aonidiella aurantii*, (Mask.). Campo y Suelo Argentino 32(384): 66. Oct. 1948. 9 C15

20744 TORRES, B. A. Sobre el valor sistemático de las espinas del fémur del primer par de patas, en el género *Carineta* Amy. et Serv. (Homoptera-Cicadidae). La Plata. Mus. Notas. Zool. 13: 73-77. 1948. 410 L31

20745 TORRES, B. A. Sobre seis nuevas especies del género *Carineta* Amy. et Serv. (Homoptera-Cicadidae). La Plata. Mus. Notas. Zool. 13: 113-127. 1948. 410 L31

20746 VILLIERS, A. Notes sur divers Hémiptères Hénicocéphalides du Musée de Gênes. Rev. Franç. d'Ent. 15: 177-181. 1948. 421 R323  
Six n. spp. in *Didymocephalus*.

20747 WAGNER, E. *Lygus rutilans* Horv. Naturw. Ver. f. Steiermark. Mitt. 76: 74-77. 1947. 510 G79

20748 WIGGLESWORTH, V. B. The functions of the corpus allatum in *Rhodnius prolixus* (Hemiptera). J. Expt. Biol. 25: 1-14. Ref. Mar. 1948. 442.8 B77

20749 WOGLUM, R. S. The California-Arizona citrus growers campaign against the citrus black fly [*Aleurocanthus woglumi*] on the west coast of Mexico. Exch. Pest Control C. Subj. Ser. 6, 15 p. Aug. 1948. 423.9 C12Eas

20750 ZOTSENKO, L. N. Experiment in using the predatory insect, *Sympherobius amicus*, in the control of *Pseudococcus comstocki* in Tashkent Region. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 110-115. 1948. 464.9 L542S

#### HYMENOPTERA

20751 AFANAS'EVA, O. V. Investigation of optimum temperature and air moisture conditions for mass propagation of *Eurygaster* egg-eaters [*Hadronotus afanassievi* and *Microphanurus schtepetilnicovi*]. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 138-143. 1948. 464.9 L542

20752 BERLAND, L. La reproduction chez les insectes hyménoptères. Ann. Biol. [Paris] (Ser. 3) 24: 105-117. Ref. Mar. 1948. 442.8 An7

20753 DANIEL, H. Aspectos de la lucha biológica: las avispas. U. de Antioquia 22: 641-646. Sept./Oct. 1948. 110 Un3

Role of the parasitic Hymenoptera in biological control.

20754 DAVIAULT, L. Note pour servir à l'histoire de la tenthrede européenne du mélèze (*Pristiphora ericksonii* Htg.). (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 85. 1948. 517 M76

20755 DAVIAULT, L. La tenthrede du sorbier [*Pristiphora geniculata*]. Forêt Québécoise 13: 748-751. Dec. 1948. 99.8 F79

20756 ERDÖS, J. *Eupelmus matranus* spec. nov. (Hymen., Chalc.: Eupelmidae). (In Latin.) Folia Ent. Hungar. 2: 68-70. 1947. 420 So12

20757 GOOT, P. VAN DER. The introduction into Java of *Microbracon chinensis* Szep., a parasite of pyralid caterpillars boring in rice plants. (In Dutch.) East Indies (Dutch). Alg. Proefsta. v. Landb. Meded. 63, 12 p. 1948. 109.5 Ea73

English summary.

Parasites bred in laboratory on *Chilo* sp., *Sesamia inferens*, *Schoenobius bipunctifer*, *Pyrausta nubilalis* salentialis, and *Diatraea striatalis*.

20758 GUIGLIA, D. Notes on two species of *Ammophila* from North Africa (Hymen. Sphecidae). (In Italian.) Soc. Ent. Ital. B. 78: 32. May 12, 1948. 420 It1

20759 GUIGLIA, D. On *Oryssus unicolor* Latr. (Hym. Oryssidae). (In Italian.) Soc. Ent. Ital. B. 77: 31-32. July 10, 1947. 420 It1

20760 GUILHON, J. École Vétérinaire d'Alfort: rapport du Laboratoire de Parasitologie sur l'action de la thiodiphenylamine (Somax de St-Denis) sur quelques Hyménoptères. Défense Agr. de la Beauce et du Perche 45: 293-294. Nov. 1, 1948. 14 D36

20761 HEINRICHS, P. Erfolgreiche wespenbekämpfung. Obst- u. Gartenbau 3: 61. Oct. 1, 1948. 80 Ob72

20762 KLOSE, N. Fig, wasp [*Blastophaga psenes*] and man. How study of insect's life cycle permitted the U. S. fruit growers to import an industry. Frontiers 13: 36-39. Dec. 1948. 410 F92

20763 MCAREAVEY, J. J. New species of the genera *Prolasius* Forel and *Melophorus* Lubbock (Hymenoptera, Formicidae). Melbourne Natl. Mus. Mem. 1947 (15): 7-27. Oct. 1947. 514 M484

20764 MASI, L. Findings on parasitic Hymenoptera, and various notes. (Second series.) (In Italian.) Soc. Ent. Ital. B. 78: 13-15. Feb. 16, 1948. 420 It1

20765 MICHENER, C. D. The generic classification of the anthidiine bees (Hymenoptera, Megachilidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1381, 29 p. Ref. July 29, 1948. 500 N483N

Includes the new genera: *Ulanthidium*, *Paranthidiellum*, and *Icteranthidium*; new subgenera: *Rapanthidium* in *Paranthidium*, *Anthidulum* in *Dianthidium*, *Afranthurium* in *Anthidium*, and *Anthidianum*, new name for *Trichanthidium* Moure, not Cockerell, in *Allanthidium*.

20766 MÓCZÁR, L. Angaben zur ethologie des *Hoplomerus spinipes* L., *Bombus derhamellus* K., and *Megachile centuncularis* L. (Hym., Vespidae & Apidae). (In Hungarian.) Folia Ent. Hungar. 2: 13-17. 1947. 420 So12

German summary.

20767 SANTIS, L. DE. Adiciones a la fauna argentina de Afelínidos (Hymenoptera: Chalcidoidea). La Plata. Mus. Notas. Zool. 13: 43-48. 1948. 410 L31

Includes *Encarsia hispida* n. sp.

20768 SANTIS, L. DE. Estudio monográfico de los Afelínidos de la República Argentina (Hymenoptera, Chalcidoidea). La Plata. Mus. Rev. (n. s.) Secc. Zool. 5: 23-280. 1948. 516 L31Rz

Includes new spp. and forms in *Aphytis*, *Marietta*, *Coccophagus*, *Ablerus*, *Azotus*, *Prospaltella*, and *Encarsia*.

20769 SCHREAD, J. C., and CHAPMAN, G. C. Control of ants in turf and soil. Greenkeepers' Rptr. 16(5): 12. Sept./Oct. 1948. 60.18 G83

20770 SMITH, M. R. A new species of *Myrmecina* from California (Hymenoptera, Formicidae). Ent. Soc. Wash. Proc. 50: 238-240. Dec. 1948. 420 W27

20771 TSUNEKI, K. Chrysididae from North China and Inner Mongolia. (In Japanese.) Mushi 17: 43-60. Ref. Apr. 15, 1947. 421 M97

Includes n. spp. and forms in: *Ellampus*; *Hedychridium*; *Euchroeus*.

20772 TSUNEKI, K. Nesting habits of *Astata boops* (Schrank) (Hymenoptera, Astatidae). (In Japanese.) Mushi 17: 103-111. July 15, 1947. 421 M97

English summary.

20773 YASUMATSU, K., and MORITSU, M. Two hymenopterous parasites of *Myzus varians* Davidson. (In Japanese.) Mushi 17: 89-90. July 15, 1947. 421 M97

*Ephedrus interstitialis*; *Lygocerus longispinus*.

20774 YASUMATSU, K. Two hymenopterous parasites of the grain aphid, *Macrosiphum granarium* (Kirby), in Hikosan, Kyushu. (In Japanese.) Mushi 17: 113-114. July 15, 1947. 421 M97

*Aphidius granarius*; *Lygocerus koebelei*.

See also Apiculture and Apis mellifera.

#### LEPIDOPTERA

20775 ALIBERT, H. Le carpocapse des pommes et des poires. Rev. Agr. de l'Afrique du Nord 46: 497. Oct. 1948. 80 R326

*Carpocapsa pomonella*.

20776 BEREZINA, V. M. Method of using bait rings in attracting *Lymantria monacha* during the oviposition period. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 161-162. 464.9 L542S

20777 BERIO, E. Contribution to the knowledge of the genus *Ozarba* Hb. (Lep. Noctuidae). II. Critical notes on the synonymy and geographical distribution of some species. (In Italian.) Soc. Ent. Ital. B. 77: 27-30. July 10, 1947. 420 It1

20778 BERIO, E. Descriptions of some African *Erastrinae* (Lep. Noctuidae). (In Italian.) Soc. Ent. Ital. Mem. 26: 12-15. 1947. 420 It1M

New species in *Eublemma*, *Oedicrodia*, and *Hiccoda*.

20779 BERTHET, H. Note sur *Parastichtis* (*Orthosia* auct.) *suspecta* Hbn. (Iners Germ.). Rev. Franç. de Lépidoptérologie 11: 334-335. May/June 1948. 421 R192



- 20780 BETZ, J. T. Assiste-t-on, actuellement à une extension de l'aire de dispersion d'*Araschnia levana* L.? Rev. Franç. de Lépidoptérologie 11: 330-334. May/June 1948. 421 R192
- 20781 BINAGHI, G. New methods of control for the pine processionary moth, *Thaumatopea pityocampa* Schiff. (In Italian.) Soc. Ent. Ital. Mem. 26(sup.): 41-47. 1947. 420 R11M
- 20782 BOVEY, P. Un nouveau ravageur en Europe: *Hyphantria cunea* Drury (Lép. Arctiidae). Rev. Romande d'Agr., de Vitic. et d'Arboriculture 4: 92-95. Dec. 1948. 17 J82A
- 20783 BURNS, A. N. The classification and distribution of butterflies. Victorian Nat. 65: 125-126. Sept. 1948. 410 V66
- 20784 BURNS, A. N. New geographical races of Australian butterflies, with a description of the female, larva, and pupa of *Pseudalmenus chlorinda barringtonensis* Whs. Melbourne Natl. Mus. Mem. 1947(15): 86-102. Oct. 1947. 514 M484
- New forms in *Xenica*, *Heteronympha*, *Trapezites*, *Ogyris*, and *Candalides*.
- 20785 BURNS, A. N. New records of Lepidoptera from Victoria, with notes on some rare species. Melbourne Natl. Mus. Mem. 1947(15): 103-108. Oct. 1947. 514 M484
- 20786 CARY, M. M. Collecting hawkmoths [Sphingidae] in Jamaica. Frontiers 13: 44-45. Dec. 1948. 410 F92
- 20787 CASPARI, E., and RICHARDS, J. On the pro-teins of *a<sup>+</sup>* and *aa* *Ephesia*. Natl. Acad. Sci. Proc. 34: 587-594. Ref. Dec. 1948. 500 N21P
- 20788 CHAGNON, G. Le papillon *Sthenopsis auratus*, famille des Hépialidés. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 79. 1948. 517 M76
- 20789 CHAN, C. B., and JU, L. C. The propagation and field colonization of *Trichogramma australicum*, Girault as a means of sugarcane borer [*Diatraea saccharalis*] control in Taiwan. J. Sugarcane Res. 2(9) 21-36. (In Chinese.) Sept. 1948. 65.8 J822
- English summary.
- 20790 CLEU, H. *Oxycesta serratae* Zerny, Noctuidae nouvelle pour la faune de France. Rev. Lépidoptérologie 11: 329-330. May/June 1948. 421 R192
- 20791 DAVIAULT, L. Influence du régime alimentaire sur le développement de la tordeuse des bourgeons de l'épinette [*Choristoneura fumiferana*]. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 75. 1948. 517 M76
- 20792 FREEMAN, H. A. Notes on some North American skippers, with the description of a new species [*Atrytonopsis turneri*] from Kansas (Lepidoptera: Hesperiidae). Ent. News [Philadelphia] 59: 203-206. Oct. 1948. 421 En88
- 20793 FRIEDL, A. Der apfelwickler [*Carpocapsa pomonella*]-und wurmige nüsse. Nach der Arbeit 21: 1. Oct. 12, 1948. 80 N11
- 20794 \* FRÖHLICH. Nochmals: wird der leimring durch die winterspritzung hin-fällig? Land, Wald u. Garten 2: 370. Dec. 1947. 18 L22
- Control of *Operophtera brumata* on fruit trees.
- 20795 FUKAYA, M. The fundamental study on the forecast of rice borer, *Chilo simplex* Butler. 3. Ohara Inst. Agr. Res. Rpt. 37(3): 17-19. May 1948. 22.5 N684
- 20796 FUKAYA, M. The fundamental study on the outbreak-forecast of rice borer *Chilo simplex* Butler. 1. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 23-26. June 1947. 22.5 N684
- 20797 GÄBLER, H. Nonnenprognose und -bekämpfung unter berücksichtigung der derzeit gegebenen möglichkeiten. Forstw., Holzw. 2: 90-93, 121-123. Ref. Mar. 1/15, Apr. 15, 1948. 99.8 F7793
- Lymantria monacha*.
- 20798 GÄBLER, H. Der stand der nonnenvermehrung in der sowjetischen besatzungszone Deutschlands. Forstw., Holzw. 2: 174-176. June 1/15, 1948. 99.8 F7793
- Lymantria monacha*.
- 20799 GAHAN, A. C. DE. Algunos datos biológicos sobre *Ecpantheria indecisa*, Walker (Lep. Arct.). Argentina. Inst. de Sanid. Veg. [P.] Ser. A 4(45), 13 p. 1948. 464.9 Ar323
- 20800 GARDNER, J. C. M. On larvae of the Noctuidae [i. e. *Phalaenidae*] (Lepidoptera). IV. Roy. Ent. Soc. London. Trans. 99: 291-318. Sept. 30, 1948. 420 L84
- 20801 GOZMÁNY, L. Leptidopterological rarities of the torfmoor of Ócsa. (In Hungarian.) Folia Ent. Hungar. 2: 60-62. 1947. 420 So12
- English summary.
- Includes a new aberration in *Boarmia*.
- 20802 HERING, M. Les mines de *Lithocolletis* des *Alnus*. Rev. Franç. de Lépidoptérologie 11: 318-323. May/June 1948. 42 R192
- 20803 HYDE, G. E. Britain's largest woodland butterfly [*Saturnia pavonia*]. Country Life [London] 104: 1121. Nov. 26, 1948. 80 C83
- 20804 JAHN, E. Beobachtungen über parasitenauf-treten im zusammenhang mit dem massenauf-treten des grauen Lärchenwicklers, *Grapholitha (Semasia) diniana*, in Tirol im jahre 1947. Pflanzenschutzberichte 2: 176-182. Oct. 1948. 464.9 P48
- English summary.
- 20805 JANNONE, G. *Malacosoma neustria* L. or almond caterpillar. (In Italian.) Agr. Pugliese 1: 33-38. Mar. 1947. 16 Ag8252
- 20806 JENKINS, C. F. H. Codling moth [*Carpocapsa pomonella*] in Western Australia. West. Austral. Dept. Agr. Leaflet 882, 5 p. Perth, 1947. 23 W52B
- 20807 KAVEN, G. Alle obstbauer müssen den kampf gegen den frostspanner mitmachen. Saat u. Ernte 2(11): 11. Nov. 1947. 18 Sa12
- Operophtera brumata*.
- 20808 KOVÁCS, L. *Euxoa hastifera* Donz., and its habitat in the Hungarian plain. (In Hungarian.) Folia Ent. Hungar. 2: 3-10. 1947. 420 So12
- English summary.
- 20809 KOVÁCS, L. *Roeselia pannonica* nov. spec., eine neue arctiide aus Ungarn. (Lepidopt.). (In Hungarian.) Folia Ent. Hungar. 2: 67-68. 1947. 420 So12
- German summary.
- 20810 KRUEL, W. Die kiefernspinner [*Gastropacha pini*], ein katastrophenschädling. Forstw., Holzw. 2: 199-203. July 1, 1948. 99.8 F7793
- 20811 LEE, A. A. Air attack on flax crop pests planned: mills are requested to report any appearance of the *Heliothis* caterpillar (common climbing cutworm). Austral. Flax Prod. Com. Newslet. 65: 50-51. Sept. 1948 73.19 Au7
- 20812 LEGRAS, L. Au jardin des Hespérides. Rev. Franç. de Lépidoptérologie 11: 315-317. May/June 1948. 421 R192
- Butterfly collecting in southeastern France.
- 20813 LE MARCHAND, S. Une petite question de nomenclature. Rev. Franç. de Lépidoptérologie 11: 310-312. May/June 1948. 421 R192
- Nepticula pseudoplatanella* Weber.
- 20814 MARAIS, S. J. S. Control of the Karroo caterpillar [*Loxostege frustralis*]. (In Afrikaans.) Land-bouweekblad 30(1529): 47, 49. Nov. 3, 1948. 24 L232
- 20815 MARIANI, M. Lepidopterous fauna of Sicily (1st addenda). (In Italian.) Soc. Ent. Ital. B. 78: 15-16. Feb. 16, 1948. 420 R1
- 20816 MATTHES, E. *Amicta febreata*. Ein beitrug zur morphologie und biologie der Psychiden (Lepidoptera). Coimbra U. Mus. Zool. Mem. e Estud. 184, 80 p. Ref. 1948. 410.9 C66
- 20817 MAY, A. W. S., and FISHER-WEBSTER, K. Codling moth [*Carpocapsa pomonella*] control experiments, 1947-48. Queensland Agr. J. 67: 143-146. Sept. 1948. 23 Q33
- 20818 MERCIER, P. E. Quelques renseignements sur la lutte contre la pyrale du maïs. Terre de Chez Nous 21(7): 19, 25. Nov. 10, 1948. 7 T27
- Pyrausta nubilalis*.
- 20819 MUSGRAVE, A. Some butterflies of Australia and the Pacific: family *Danidae*-*Danais* I. Austral. Mus. Mag. 9: 270-275. July/Sept. 1948. 475 Au7
- 20820 NEWMAN, L. H. The British hawk moths. Nature Lover 5: 431-435. Oct. 1948. 410 N218
- Sphingidae*.
- 20821 NEWMAN, L. H. The migrant hawk moths [*Sphingidae*]. Nature Lover 5: 499-505. Nov. 1948. 410 N218
- 20822 NOLTE, H. W. Frostspannergefahr in Mittel-deutschland. Forstw., Holzw. 2: 14-15. Jan. 1, 1948. 99.8 F7793
- Operophtera brumata* and *Hibernia defoliaria*.



- 20823 OKE, C. G. Description of a new species of casemoth [*Plutorectis caespitosae*] (Lepidoptera, Psychidae). Melbourne Natl. Mus. Mem. 1947(15): 178-179. Oct. 1947. 514 M484
- 20824 PALM, C. E., and SMITH, E. H. Chemical control of red-banded leaf roller [*Argyrotaenia velutinana*]. Agr. Chem. 3(12): 22-24. Dec. 1948. 381 Ag8
- 20825 PARSONS, A. C. The catalpa sphinx moth [*Ceratomia catalpae*] and its enemies. Frontiers 13: 48-49. Dec. 1948. 410 F92
- 20826 PICARD, J. Nouvelles races d'Hesperidae françaises. Rev. Franç. de Lépidoptérologie 11: 324-328. May/June 1948. 421 R192
- New races in *Carcharodus*; *Reverdinus*; *Pyrgus*; *Heteropterus*.
- 20827 PRAVIEL, G. *Augiades sylvanus* Esper ssp. *nicaeensis* nov. Rev. Franç. de Lépidoptérologie 11: 324. May/June 1948. 421 R192
- 20828 PUYSEGUR, K. DE. Contribution à l'étude des Rhopalocères de l'Hérault. Rev. Franç. de Lépidoptérologie 11: 306-310. May/June 1948. 421 R192
- 20829 ROHMEDE, E. Ursachenforschung für die züchtung einer nonnenfrass-widerstandsfähigen fichten-sorte. Forstwiss. Centbl. 67: 110-119. Nov. 1948. 99.8 F775
- Pines resistant to *Lymantia monacha*.
- 20830 RUSSO, G. Morpho-systematic study of chestnut tortricids. (In Italian.) Pisa. U. Facol. di Agr. Ann. (n. s.): 156-198. Nov. 10, 1948. 105.4 P672
- Laspeyresia splendana*, *L. splendana* reamurana, *L. grossana*, and *Hemimene juliana*.
- 20831 RUSSWURM, A. D. A. Life histories of our butterflies. 3. Nature Lover 5: 454, 459-460. Oct. 1948. 410 N218
- 20832 RÜTIMEYER, E. Mise au point au sujet de mon article sur *Coenonympha leander* var. *gallica* m. et report de cette variété à *Coenonympha iphis*. Rev. Franç. de Lépidoptérologie 11: 312-315. May/June 1948. 421 R192
- 20833 SEREBROVSKII, A. S., KHVOSTOVA, V. V., and SHAPOSHNIKOVA, Z. S. Biology of *Ernestia consobrina*, parasite of vegetable Noctuidae and methods of promoting its useful activity. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 132-134. 1948. 464.9 L542S
- 20834 SMIT, B. The biological control of the Karoo caterpillar [*Loxostege frustalis*]. Farming So. Africa 23: 621-624. Sept. 1948. 24 So842
- 20835 SMITH, G. A. Life cycle of the cecropia [*Samia cecropia*]. Canad. Nature 10: 164-167. Nov./Dec. 1948. 410 C162
- 20836 SOENEN, A. Les tordeuses [Tortricidae] de nos arbres fruitiers. Cent. de Res. de Gorsem. P. 4, 44 p. Ref. 1947? 105.1 G68
- Flemish, English and German summaries.
- Biology and control of *Capua reticulana*, *Cacoecia* spp., *Argyroplote variegana*, *A. lacunana*, *Spilonota ocellana*, *Pandemis ribeana*, *Cnephasia wahlbomiana*, and *Tortrix dumetana*.
- 20837 STEMPFFER, H. Contribution à l'étude des Lycaenidae de la faune éthiopienne. Rev. Franç. d'Ent. 15: 185-196. 1948. 421 R323
- New spp. and forms in *Virachola*, 2; *Epamera*; *Spindasis*; *Axiocerses*; *Cupidesthes*; *Tarucus*.
- 20838 STUBBINGS, W. A. K. Should lead arsenate be used in codling moth [*Carpocapsa pomonella*] control? Farming So. Africa 23: 627-628. Sept. 1948. 24 So842
- 20839 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Farmers out to get corn borer [*Pyrausta nubilalis*], by C. M. Packard, D. Reynolds, H. B. Petty, and others. Washington? 1948. 6 p. 1.914 R2R11
- 20840 VIETTE, P. Morphologie des genitalia males des Lépidoptères. Rev. Franç. d'Ent. 15: 141-161. Ref. 1948. 421 R323
- 20841 VINTÉJOUX, M. Note sur deux *Argynnes* du Massif Central. Rev. Franç. de Lépidoptérologie 11: 328-329. May/June 1948. 421 R192
- Clossiana titania*, *Brenthis hecate*.
- 20842 WAGENINGEN. PLANTENZIEKTENKUNDIG DIENST. Het pruimenmotje (*Grapholitha funebrana* Tr.) [The plum miner, *Grapholitha funebrana*]. Netherlands. Plantenziektenkund. Dienst. Vlugsch. 59, 4 p. Sept. 1948. 464.9 W12V
- 20843 WICHMAND, H. Moth control. (In Danish.) Tidsskr. for Husholdning 27: 136. Nov. 17, 1948. 321.8 T43
- 20844 YOTHERS, M. A. A review of the literature on sprays to destroy overwintering codling moth [*Carpocapsa pomonella*] larvae. U. S. Bur. Ent. and Plant Quar. E-761, 9 p. Oct. 1948. 1.9 En83
- 20845 YOUNG, L. Bag-moths attacked by shrike-tits. Victorian Nat. 65: 127. Sept. 1948. 410 V66
- See also Sericulture and the Silkworm.

## ORTHOPTERA

- 20846 ABITBOL, J. Los insecticidas en la lucha contra la langosta. Bolsa de Com., Rosario. Rev. 36 (880): 5-6, 8. Sept. 15, 1948. 287 R71
- 20847 ADAM, J. P., and LEPOINTE, J. Recherches sur la morphologie des sternites et des pleurites des mantes. Paris. Mus. Natl. d'Hist. Nat. B. (ser. 2) 20: 169-173. Feb. 1948. 410.9 P213
- 20848 BEFFA, G. DELLA. Outbreak of Phasgonuridae and Locustidae in Piedmont during 1947 and first experiments on their control. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 567-589. Ref. 1948. 16 An76
- English summary.
- Gregarious forms of *Orphanina denticauda* and *Decticus verrucivorus*.
- 20849 CAPRA, F. Two interesting orthopteroids from Italy. (In Italian.) Soc. Ent. Ital. B. 77: 32. July 10, 1947. 420 It1
- Myrmecophila aequispina*; *Tachycines asynamoros*.
- 20850 CHOPARD, L. La parthénogenèse chez les Orthoptéroïdes. Ann. Biol. [Paris] (Ser. 3) 24: 15-22. Ref. Jan. 1948. 442.8 An7
- 20851 ESQUIVEL, R. C. Compañia contra la langosta: métodos de control empleados y sus resultados. Suelo Tico 1: 45-48. Aug. 1948. 8 Su2
- 20852 FRAPPA, C., ed. Les sauterelles migratrices de Madagascar et les moyens de les combattre. Madagascar. Insp. Gén. des Serv. Agr. B. Agr. 1(5), 37 p. 1948. 25 M26
- Locusta migratoria capito* and *Nomadacris septemfasciata*.
- 20853 GALVAGNI, A. Further observations on the cavernicolous Orthoptera of Venezia Tridentina. (In Italian.) Soc. Ent. Ital. B. 77: 13-15. June 4, 1947. 420 It1
- 20854 HUGHES-SCHRADER, S. The "pre-metaphase stretch" and kinetochore orientation in phasmids. Chromosoma 3(1/2): 1-21. Ref. 1947. 442.8 C46
- 20855 HUGHES-SCHRADER, S. Reversion of XO to XY sex chromosome mechanism in a phasmid [*Isagoras schraderi*]. Chromosoma 3(1/2): 52-65. Ref. 1947. 442.8 C46
- 20856 JANNONE, G. Contributions to the morphological and systematic knowledge of the orthopterous fauna of Eritrea. V. Ethology of *Cyrtacanthacris tatarica abyssinica* Uv., 1941 (*Cyrtacanthacridinae*) with notes on sexual maturity, copulation, and its duration. (In Italian.) Soc. Ent. Ital. Mem. 26(sup.): 87-97. 1947. 420 It1M
- 20857 KENNEDY, J. S., AINSWORTH, M., and TOMS, B. A. Laboratory studies on the spraying of locusts [*Locusta migratoria migratorioides*] at rest and in flight. Brit. Mus. (Nat. Hist.) Anti-Locust B. 2. 64 p. Ref. 1948. 420 B772A
- Tests with DDT, benzene hexachloride, and dinitro-o-cresol.
- 20858 LIEBERMANN, J. Los acridios de Santa Fe. Soc. Ent. Argentina Rev. 14(1/2): 56-114. Ref. May 20, 1948. 420 So14
- With biographical note and bibliography of Dr. Lawrence Bruner, 1856-1937.
- 20859 LIMA, A. D. F. Grasshopper control. (In Portuguese.) Criação e Vet. 2: 178. Sept. 1947. 49 C86
- 20860 MUNRO, J. A., NOSTDAHL, W., and ENGEL, K. Baits and dusts tested against grasshoppers and crickets. N. Dak. Agr. Expt. Sta. Bimo. B. 11: 11. Sept./Oct. 1948. 100 N813B
- 20861 PAOLI, G., and BOSELLI, F. Introduction of egg parasites of *Dociostaurus maroccanus* Thnb. from the Italian peninsula into Sardinia. (In Italian.) Soc. Ent. Ital. Mem. 26(sup.): 21-22. 1947. 420 It1M
- Mylabris variabilis* and *bombyliids*.
- 20862 RAINEY, R. C. Habari ya nzige. (In English.) Empire Cotton Growing Rev. 24: 254-261. Oct. 1948. 72.8 Em7
- Locust control in Somaliland and Tanganyika.



- 20863 RICCI, M. On the action of DDT on *Blatta orientalis*. (In Italian.) Riv. di Parassitol. 9: 143-167. Ref. Sept. 1948. 436.8 R52  
English and French summaries.
- 20864 ROEDER, K. D. The effect of anticholinesterases and related substances on nervous activity in the cockroach [*Periplaneta americana*]. Johns Hopkins Hosp. B. 83: 587-600. Ref. Dec. 1948. 448.8 J63B  
Discussion, by A. M. Harvey, p. 600-603.
- 20865 SELLIER, R. L'évolution morphologique de *Locusta migratoria* L. dans la région armoricaine. Arch. de Zool. Expt. et Gén. 85: 199-207. Ref. July 20, 1948. 410 Ar24  
France.
- 20866 TEIGH, J. Battles with the locust. Country Life [London] 104: 1045. Nov. 19, 1948. 80 C83
- 20867 UVAROV, B. P. Recent advances in acridology: anatomy and physiology of Acrididae. Brit. Mus. (Nat. Hist.) Anti-Locust B. 1. 75 p. Ref. 1948. 420 B772A
- 20868 WILLEMSE, C. A new *Cyphacris* from the upper Amazon of eastern Peru (Orth., Acrid., Cyrtacanthacrid.). Soc. Ent. Argentina Rev. 14(1/2): 12-16. May 20, 1948. 420 So14

#### SERICULTURE AND THE SILKWORM

- 20869 HINE O'LEARY, E. La sericicultura en Costa Rica. Suelo Tico 1: 58-60. Aug. 1948. 8 Su2
- 20870 TARTUFOLI. Sericulture should be taken up again. (In Italian.) Agr. Veneziana 4(20): 1. Oct. 16/31, 1948. 16 Ag8264

#### SMALLER ORDERS

- 20871 ASAHINA, S. Hemicordulia from the Bonin Islands, Riu-Kiu and Formosa (Odonata, Corduliinae). (In Japanese.) Mushi 17: 79-87. July 15, 1947. 421 M97  
Includes *H. okinawensis* n. sp.
- 20872 ASAHINA, S. Odonata collected by Mr. K. Koba in Jehol, Southwestern Manchuria. (In Japanese.) Mushi 17: 95-100. July 15, 1947. 421 M97
- 20873 BICK, G. H. Dragonflies collected from Beaufort County, South Carolina, during the fall of 1945. Ent. News [Philadelphia] 59: 202. Oct. 1948. 421 En88
- 20874 BRIAN, A. The male pleopods of *Buddelundella caprae* Brian (cavernicolous Isopod). (In Italian.) Soc. Ent. Ital. B. 78: 11-13. Feb. 16, 1948. 420 It1
- 20875 BUSHLAND, R. C. Insecticides for the control of lice attacking man and animals. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 138-139. 1948. 150.1 C766
- 20876 CONCI, C. A new genus of Leiotheidae [*Ctenomenacanthus*] from South America, parasitic on *Opisthocomus hoatzin*. (Mallophaga). (In Italian.) Soc. Ent. Ital. B. 77: 31. July 10, 1947. 420 It1
- 20877 CONCI, C. Notes on Italian Odonata. (In Italian.) Soc. Ent. Ital. B. 78: 25-27. May 12, 1948. 420 It1
- 20878 CROWE, C. E. Rats and their fleas. Amer. Field 150: 726-727. Dec. 4, 1948. 410 Am3
- 20879 DAVIS, D. H. S. Ecological studies of rodents in relation to plague control. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 14-15. 1948. 150.1 C766  
Rodent and flea control.
- 20880 DELAMARE DEBOUTTEVILLE, C. *Lepidocyrtus longithorax* n. sp. (Ins. Collembola) récolté en Côte d'Ivoire par M. H. Alibert. Paris. Mus. Natl. d'Hist. Nat. B. (ser. 2) 20: 178-179. Feb. 1948. 410.9 P213
- 20881 DELAMARE DEBOUTTEVILLE, C. *Phyllio-meria africana* n. g., n. sp. Nouveau type de Collembola d'Afrique Orientale. Rev. Franç. d'Ent. 15: 182-185. 1948. 421 R323
- 20882 DELAMARE DEBOUTTEVILLE, C. Recherches sur les collembola termitophiles et myrmécophiles (écologie, éthologie, systématique). Arch. de Zool. Expt. et Gen. Notes et Rev. 85: 261-425. Ref. July 1948. 410 Ar24  
Includes new species in *Cyphoderus*, *Cyphoda* n. g., *Megacyphoderus* n. g., *Serroderus* n. g., *Cephalophilus* n. g., *Isotominella* n. g., *Oncopodura*, *Lepidocyrtinus*, and *Lepidoregia* n. g. Also, *Paracyphoderus* n. g.
- 20883 FESTA, A. Studies on the Italian Plecoptera. VIII. Plecoptera of Venezia Tridentina. (In Italian.) Soc. Ent. Ital. B. 77: 15-16. June 4, 1947. 420 It1
- 20884 HAMON, J., and OVAZZA, M. Morphologie thoracique des Dermapteres. Paris. Mus. Natl. d'Hist. Nat. B. (ser. 2) 20: 174-177. Feb. 1948. 410.9 P213
- 20885 HILL, E. L., and MORLAN, H. B. Evaluation of county-wide DDT dusting operations in murine typhus control. Pub. Health Rpts. 63: 1635-1653. Dec. 17, 1948. 151.65 P96  
DDT for flea control.
- 20886 IOFF, I. G. Newly found Siphonaptera [in U. S. S. R.]. (In Russian.) Priroda 37(10): 80-81. Oct. 1948. 410 P933  
Includes new sub-species in *Ceratophyllus*.
- 20887 KAMENKOVA, K. V. Some data on the ecology of *Symphorobius amicus* in connection with its increase. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 102-104. 1948. 464.9 L542S
- 20888 MACCHIAVELLO, A. Epidemiologia de la peste en las Americas. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 13-14. 1948. 150.1 C766  
Role of rodents and fleas.
- 20889 MATURANA, A. Los parásitos del gallinero. Campo y Suelo Argentino 32(384): 58-59. Oct. 1948. 9 C15  
Chiefly lice.
- 20890 MEIER, N. F., and KAMENKOVA, K. V. Method of mass propagation of *Symphorobius amicus*. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 105-109. 1948. 464.9 L542S
- 20891 MOLL, F. Ist teakholz termitenfest? Holz-Zentbl. 74: 497-498. Nov. 5, 1948. 99.81 H742
- 20892 NIELSEN, A. Postembryonic development and biology of the Hydroptilidae. A contribution to the phylogeny of the caddis flies and to the question of the origin of the case-building instinct. Danske Vidensk. Selsk. Biol. Skr. 5(1), 200 p. København, 1948. 442.9 D23B
- 20893 RUIZ CASTANEDA, M. Flea-borne and louse-borne typhus in Mexico. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 31-33. 1948. 150.1 C766
- 20894 SCHMIDT, E. *Calopteryx* versus *Agrion*; again? (Odonata). Ent. News [Philadelphia] 59: 197-201. Oct. 1948. 421 En88
- 20895 SCHMIDT, H. Beiträge zur kenntnis der darmsymbionten der holzfressenden termiten. Reichsinst. f. Forst- u. Holzwirtsch. Mitt. 2, 7 p. Ref. Dec. 1947. 99.9 R273  
English, French, and Spanish summaries.  
Flagellate protozoans.
- 20896 SÉNESSE, P. Invasion de termites en Roussillon. Soc. d'Hist. Nat. B. 82: 30-32. Oct. 30, 1947. 505 T64
- 20897 SHCHEPETIL'NIKOVA, V. A. Relation of biological characteristics of *Symphorobius amicus* to meteorological conditions. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 90-101. Ref. 1948. 464.9 L542S
- 20898 SOUZA, A. O. DE. Arroz atacado por cupins [*Cornitermes* sp.?]. Chacaras e Quintais 78: 561. Nov. 15, 1948. 9.2 C34
- 20899 STONE, W. S. Review of United States studies on insecticides in the control of typhus fever. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 137-138. 1948. 150.1 C766  
Control of louse vectors by MYL and DDT powders.
- 20900 WAGENINGEN. PLANTENZIEKTENKUNDIGE DIENST. *Gladiolus* thrips [*Taeniothrips gladioli*]. (In Dutch.) Netherlands. Plantenziektenkund. Dienst. Vlugsch. 60, 4 p. Sept. 1948. 464.9 W12V

#### AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

#### GENERAL AND MISCELLANEOUS

- 20901 BUSCH, A. Wegplanung im bauernhof falsch und richtig. Saat u. Ernte 2(11): 12. Nov. 1947. 18 Sa12
- 20902 CALBA, R. L'explosif en agriculture. Colon. Franç. de Tunisie 58(2076): 1, 3. Dec. 4, 1948. 24 C712



- 20903 CASHMORE, W. H. National Institute of Agricultural Engineering. Farming [Norwich] 9: 298-302. Oct. 1948. 10 F2236  
In Bedfordshire, England.
- 20904 DACHS, L. Die selbstentzündung von heul  
Salzburg. Bauer 3(38): 9-10. Sept. 16, 1948. 19 Sa3
- 20905 FEHLE, U. Brandverhütung durch einbau von  
heustock-entlüftungsschächten. Landtechnik [Wien] 1:  
220-222. July 1948. 58.8 L236
- 20906 FIRTH, J. B. Spontaneous combustion in hay,  
cotton, and other vegetable materials. (Sum.) Chem. &  
Indus. 1948: 811-812. Dec. 18, 1948. 382 M31C
- 20907 FOSBURGH, P. W. Farm ponds. N. Y. State  
Conserv. 3(2): 10-11. Oct./Nov. 1948. 279.8 N48
- 20908 FRANKE, L. In laying out a farmstead, you  
can beat growing pains by drawing plans. Southwest  
Crop & Stock 2(12): 8-9, 49. Dec. 1948. 6 So8942
- 20909 GOETZ, K. Nochmals: baugestaltung des  
bauernhofes im wiederaufbau. Saat u. Ernte 2(12): 6.  
Dec. 1947. 18 Sa12
- 20910 HALE, W. M. Safety the 4-H way. Esso  
Farm News 7(6): 10-12. Nov. 1948. 6 Es72  
Safety program, Bradley County, Tennessee.
- 20911 HERRMANN, S. Unfälle auf dem bauernhofe.  
Bauern-Jahrb. 1948: 91-93. 18 B322
- 20912 KANSAS. STATE BOARD OF HEALTH. Re-  
port of Kansas 1947 agriculture deaths. Topeka, 1948?  
9 p. 449.9 K13
- 20913 LACOMBE, R. Le dangereux métier d'agri-  
culteur. Voix des Colons 30(1469): 2. Sept. 13, 1948.  
24 V85
- 20914 SMITH, C. S. A farm is born again. Farm-  
ers Weekly [London] 29(24): 36-37, 39. Dec. 10, 1948.  
10 F2226  
Replanning of a farm of the University College of Wales.
- 20915 WILLIAMS, K. F. If you have to fight fires.  
N. Y. State Conserv. 3(2): 7. Oct./Nov. 1948. 279.8 N48
- FARM MACHINES AND EQUIPMENT
- 20916 ACHTERSTRAAT, J., and RIEMSDIJK,  
J. F. VAN. Possibilities for further mechanization of  
mixed sa d district farms. (In Dutch.) Netherlands.  
Landbouwvoorlichtingsdienst. Maandbl. 5: 399-411. Sept.  
1948. 12 N383M
- 20917 BABO, VON. Arbeitsertrag und mechanisie-  
rung. Saat u. Ernte 3(10): 3-4. Oct. 1948. 18 Sa12
- 20918 BARANAO, T. V. La mecanización agrícola en  
la Argentina. Bolsa de Com., Rosario. Rev. 36(884): 3-9.  
Nov. 15, 1948. 287 R71
- 20919 BARANAO, T. V. Primer congreso argentino  
de mecanización agrícola. Rev. Mens. B. A. P. 31(371):  
18-19, 57-58. Oct. 1948. 9 R326
- 20920 BARATTE, J. Une évolution dans la fabrication  
de manches d'outils à main. Rev. Agr. de l'Afrique du  
Nord 46: 583-584. Nov. 19, 1948. 80 R326
- 20921 BARATTE, J. La mécanisation ne sauvera  
l'agriculture française qu'à condition d'être employée  
à bon escient. Cahiers des Ingén. Agron. 2(21/22): 11-  
13. Mar./Apr. 1947. 14 C112
- 20922 BERNARD, P. Non, la motoculture n'est pas  
un sport! Monit. Agr. 1(40): 2. Oct. 17, 1948. 14 M77
- 20923 BERTHAULT, P. L'essor de la motoculture  
en France et le problème nord-africain. Rev. Agr. de  
l'Afrique du Nord 46: 513-514. Oct. 15, 1948. 80 R326
- 20924 BJERNINGER, S. Swedish standards for farm  
transport blower piping. (In Swedish.) Jordbrukstek.  
Inst. Meddel. 220, 23 p. Uppsala, 1948. 58.9 J762  
English summary.
- 20925 BLOHM, G. Rationelle arbeitsverfahren in  
der neusiedlung. Deut. Bauerntech. 2(8): 3-5. Aug.  
1948. 58.8 D48  
Need for farm equipment cooperatives.
- 20926 BOUCKAERT, G. Le problème actuel de la  
mécanisation agricole. Equip. Rur. 1(1): 4-7. May 1948.  
58.8 Eq5
- 20927 CARENA, A. Agricultural machinery at the  
VIIIth Technical and Mechanical Show. (In Italian.)  
Chron. Econ. 44: 28-30. Oct. 10, 1948. 280.8 C882  
Italy.
- 20928 COMBAL, H. Mécanisation de l'agriculture  
américaine. Voix des Colons 30(1481): 3. Dec. 6, 1948.  
24 V85
- 20929 CREAGH, E. V. Chain—an extra hand for the  
farmer. Impl. & Tractor 63(24): 24-25, 46, 50. Nov. 27,  
1948. 58.8 W41
- 20930 DAHL, H. K. Cost of mechanization. (In Nor-  
wegian.) Norsk Landbr. 14: 362-364. Oct. 1, 1948.  
11 N8122
- 20931 EGYPT. MINISTRY OF AGRICULTURE. The  
development of the agricultural implements in Egypt.  
Cairo, Govt. Press, 1948. 5 p. 58 Eg9D
- 20932 FATH, A. Landmaschinen-normung tut not.  
Deut. Bauerntech. 2(8): 21-24. Aug. 1948. 58.8 D48
- 20933 FLEHR, F. Bäuerliche Gesichtspunkte für die  
bewertung von landwirtschaftlichen maschinen und geräten.  
Saat u. Ernte 2(12): 4-5. Dec. 1947. 18 Sa12
- 20934 FRANKEN, W. C. A. C. More corn through  
mechanization? (In Dutch.) Boer en Tuinder 2(20): 7.  
Sept. 25, 1948. 12 B632
- 20935 GARDNER, R. C. B. Axes ancient and modern.  
Country Life [London] 104: 112-113. Nov. 26, 1948.  
80 C83
- 20936 GAUCHOU, M. Le petit outillage dans l'agri-  
culture coloniale. Marchés Colon. 4: 2289. Dec. 18,  
1948. 286.8 M33  
French colonies.
- 20937 GREENWOOD, H. W. Corrosion and rust on  
the farm. Farm Impl. & Mach. Rev. 74: 617. Oct. 1,  
1948. 58.8 IM72
- 20938 GREGORY, R. W., ed. Farm enterprise  
mechanics. Rev. Philadelphia, Lippincott, 1948.  
408 p. Ref. 58 G862
- 20939 GUSSONI, L. Possibilities for agricultural  
mechanization. (In Italian.) Cent. di Studi per l'Ingegn.  
Agr. Mem. ed Atti 3(1): 5-7. Jan./Mar. 1948. 58.9 C33
- 20940 HAUG, W. Erfahrungen aus dem genossen-  
schaftlichen maschineneinsatz. Württemb. Wchnbl. f.  
Landw. 115: 349-350. Nov. 20, 1948. 18 W96
- 20941 HERTZBERG, H. Wege zur besseren ausnüt-  
zung der landmaschinen. Saat u. Ernte 2(11): 1-2. Nov.  
1947. 18 Sa12
- 20942 HOWARD, G. W. Fieldmen's mechanization  
show at Fort Collins. Through Leaves 26(5): 5-11.  
Sept./Oct. 1948. 66.8 T41  
For sugar beets.
- 20943 INSTITUT BELGE DE NORMALISATION.  
Normalisation des machines agricoles. Equip. Rur. 1:  
97-110. July 1948. 58.8 Eq5
- 20944 KLUIBENSCHEDL, H. Zur wirtschaftlich-  
keitsfrage landwirtschaftlicher seilschwebbahnen.  
Landtechnik [Wien] 1: 351-352. Nov. 1948. 58.8 L236
- 20945 LANGER, F. Gartengeräte: gestern und heute.  
Siedler 3(3): 7. Mar. 1948. 19 Si1
- 20946 LEES, A. B. Dairy mechanisation in England.  
Power Farming Austral. 57(7): 55. July 1948.  
58.8 P87
- 20947 LEIDL, E. Landmaschinenschau auf dem  
Welser Volksfest. Salzburg. Bauer 3(39): 3-4. Sept. 23,  
1948. 19 Sa3
- 20948 LISTOV, P. N. Power and technological  
characteristics of several types of crop rotations. (In  
Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad.  
im. K. A. Timirfazeva. Dok. 7: 201-209. 1948.  
20 M857  
Power utilization in agricultural equipment with various  
crop rotation systems.
- 20949 MA, P. C. Farm mechanization in China.  
China Trade Monthly 2: 771-774, 804. Sept. 1948.  
286.8 C44
- 20950 M'IVER, H. C. Economic aspects of farm  
mechanisation; combine harvesters in east and south-east  
Scotland 1947. Edinb. and East Scot. Col. Agr. B. 16,  
29 p. Sept. 1948. 103 Ed4E
- 20951 MARX, W. J. Farms, machines, and the good  
society. Commonweal 49: 271-274. Dec. 24, 1948.  
280.8 C735
- 20952 MILLER, I. Automatic handling of feed no  
different on big, small farms. Cur. Speaking 3(9): 8.  
Oct. 1948. 335.8 C93
- 20953 MILLER, I. Job of making farm work easier  
is one task that has no ending. Cur. Speaking 3(9): 7.  
Oct. 1948. 335.8 C93  
Mechanization.
- 20954 MONTMAGNY, C. DE. Les démonstrations de  
motorisation 1948 sont probantes. Vie à la Campagne  
37: 340-342. Nov. 1948. 80 V67



20955 NEWTON, P. What about 1949? Pacific Northwest farm equipment jobbing executive analyzes general prospects and trade factors, based on study and his eastern contacts. *Impl. Rec.* 45(12): 24. Dec. 1948. 58.8 Im73

20956 NÚÑEZ, A. Take care of your agricultural machinery. (In Portuguese.) *Granja [Porto Alegre]* 3 (35): 15-16. Aug. 1948. 9.2 G76

20957 O'BRIEN, H. R. Push-button chores; electricity is taking over more jobs as farmers step up use of power. *Country Gent.* 118(11): 20-21. Nov. 1948. 6 C833

Electrical equipment.

20958 OTTO, W. C. Kampf dem genossenschaftswesen. *Landtechnik* 3: 327-328. Sept. 30, 1948. 58.8 L235

20959 OWEN, E. M. Farm mechanisation in England and Wales; the position to-day. In *Horace Plunkett Found. Year book of agricultural co-operation*, 1948, p. 7-56. Cambridge, 1948. 280.29 H78

20960 PINTO, E. H. Old-time tools and appliances. *Country Life [London]* 104: 1222-1223. Dec. 10, 1948. 80 C83

20961 RAGONDET, G. L. Homologation des machines agricoles. *Equip. Rur.* 1: 55-60. July 1948. 58.8 Eq5

20962 REICHERT, W. Jetzt ist es zeit! *Landtechnik [Wien]* 1: 349. Nov. 1948. 58.8 L236

Care of equipment.

20963 RENARD. Voll- oder teilmechanisierung in der hackfruchternte. *Landwirtschaftsblatt Weser-Ems* 95: 260-262. Nov. 26, 1948. 18 L2345

20964 RUSSELL, J. C. How to make farm machinery last longer. *Dakota Farmer* 68(20): 10. Oct. 16, 1948. 6 D14

20965 SCHULZE, W. Die pflege der landmaschine. *Bauern-Jahrb.* 1948: 40-41. 18 B322

20966 SERANDOUR, P. Pensons à l'enseignement du machinisme agricole. *Monit. Agr.* 1(40): 4. Oct. 17, 1948. 14 M77

20967 SPASOV, M. Machinisation du travail dans les sécheries. (In Bulgarian.) *Gorsko Stopanstvo* 4: 274-280. Oct. 1948. 99.8 G682

French summary.

Drying seeds of conifers in Bulgaria.

20968 STECK, R. D. Look how far we have come already. *Through Leaves* 26(5): 35-36. Sept./Oct. 1948. 66.8 T41

Sugar beet mechanization.

20969 STEFANELLI, G. Explanations on the Marshall Plan and agricultural machinery. (In Italian.) *Macch. e Motori Agr.* 6: 339-340. Aug. 1948. 58.8 M13

20970 VOWLES, H. P. Maquinaria para el agricultor. *Agr. Levantino* 14(166): 9. Sept. 1948. 15 Ag85

20971 WALZER, L. Leistungssteigerung der bergbauernbetriebe durch maschinenverwendung. *Landtechnik [Wien]* 1: 317-321. Oct. 1948. 58.8 L236

20972 WATTS, F. How big is the farm market; here are facts and figures, presented for the first time, that reveal a farm appliance and working equipment potential of \$4,226,367 for every working day! An industry blueprint for the next decade. *Elect. Merchandising* 81(1): 54-57, 270. Jan. 1949. 335.8 EL242

#### Animal Husbandry Equipment

20973 AIBARA, F. D., and LAXMINARAYANA, H. Resazurin test for assessing the sterility of dairy utensils. *Indian J. Vet. Sci. & Anim. Husb.* 17: 225-229. Dec. 1947. 41.8 In22

20974 ALEXANDER, A. K. S. Changing to cabinet incubators. *Farmer & Stock-Breeder* 62: 2431. Oct. 19, 1948. 10 F228

20975 DIEGMANN. Pflege und reinigung der melkmaschinen. *Molkerei-Ztg.* 1: 186. Dec. 6, 1947. 44.8 M735

20976 DIXSAUT, R. La traite mécanique. *Défense Agr. de la Beauce et du Perche* 45(29): 282-284. Oct. 20, 1948. 14 D36

20977 KARLSEN, G. G. Results of testing the horse's harness designed by A. B. Voelkov. (In Russian.) *Konevodstvo* 18(4): 31-35. July/Aug. 1948. 42.8 K832

20978 KOLL, F. Selbsthergestelltes fressgitter für einzelfütterung der rinder. *Landtechnik [Wien]* 1: 329-330. Oct. 1948. 58.8 L236

20979 LAGARDE, J. La traite mécanique. *Acclimatation* 75: 209. (Concl.) Oct. 2, 1948. 14 Ac2

20980 LAWSON, E. Dairy mechanics. *Power Farming Austral.* 57(10): 61, 63. Oct. 1948. 58.8 P87

20981 MCMILLEN, W. N., SHELDON, W. H., and PEART, W. G. An automatic self-cleaning water bowl for hogs. *Mich. Agr. Expt. Sta. Q. B.* 31: 178-181. Nov. 1948. 100 M58S

20982 MÖGELE, E. Zur gleitschutzfrage im hufbeschlag. *Württemberg. Wchnbl. f. Landw.* 115: 299. Oct. 23, 1948. 18 W96

20983 MONTGRAIN, C. L'éleveuse électrique pour porcelets. *Foyer Rur. [Montreal]* 8(4): 9. Jan. 1949. 14 F83

20984 MORGAN, A. M. No rope burns with this method of stake-out. *Horse Lover* 13(4): 54, 64. Dec. 1948/Jan. 1949. 42.8 H7852

20985 ORTEGA, L. B. Fitting your hackamore. *West. Horseman* 13(6): 12-13, 59. Nov./Dec. 1948. 42.8 W522

20986 PARKING, I. E. Cleaning milking machine vacuum lines. *Dairymen's Price Rptr.* 30(12): 6-7. Dec. 1948. 280.28 D14

20987 PARRISH, C. F., MAUPIN, C. J., and DEAR-STYNE, R. S. Equipment for poultry. *N. C. Agr. Col. Ext. C.* 327, 15 p. Oct. 1948. 275.29 N811

20988 PAULAU, M. L'incubation artificielle. La température doit-elle être constante? *Avic. Basse-Cour* 4: 68. 1948. 47.8 Av53

20989 SCHAEENZER, J. P. Electric equipment for poultry production in the United States. *World's Poultry Cong. Off. Rpt.* 8: 468-473. 1948. 47.9 W8980

French summary.

20990 SOUTHWOOD, J. T. The mechanics of the milking machine. *Austral. Milk & Dairy Prod. J.* 15(8): 19. Aug. 1948. 44.8 Au72

20991 TEARE, D. W. Electric poultry brooding. *Ala. Rur. Elect. News* 1(11): 6. Dec. 1948. 335.8 AL1

20992 TURNER, C. N. Automatic watering systems for poultry in winter. *Agr. Engin.* 29: 537-538, 540. Dec. 1948. 58.8 Ag83

20993 VOLPINI, A. The silo, the mill, and the filter-post in the organization of the livestock farm. (In Italian.) *Allevatore* 4(36): 3. Sept. 5, 1948. 49 AL55

Chiefly on the "posta-filtro" an arrangement for separating the liquid and solid manure.

20994 WALLA, H. Maschinen als helfer bei der schweinefütterung. *Pflug* 1: 184-185. Nov. 1948. 14 P48

20995 WENGER, G. Die vorteile der weichfutterherstellung mit dem "blitz" in der geflügelfarm. *Geflügelhof* 11: 734. Nov. 19, 1948. 47.8 G276

20996 WHITTLESTON, W. G. Efficient mechanical milking. *Soc. Dairy Technol. J.* 2(1): 52-58. (To be cont.) Oct. 1948. 44.8 Sol2

20997 WINNER, E. B. Automatic laying house waterers. *World's Poultry Sci. J.* 4: 276-277. Oct./Dec. 1948. 47.9 W89

20998 WITZ, R. L. Livestock need water winter and summer. *N. Dak. Agr. Expt. Sta. Bimo. B.* 11: 12-14. Sept./Oct. 1948. 100 N813B

Equipment.

#### Cultivation and Tillage Equipment

20999 DURANTE, D. Where the mouldboard plow can not operate. (In Italian.) *Macch. e Motori Agr.* 6: 357-359. Aug. 1948. 58.8 M13

21000 JOHNSON, A. D. The Howard "Gem" rotary hoe. *Amateur Gard.* 65(3368): 20, 22. Nov. 30, 1948. 80 Am13

21001 KOCH, H. Kleinmotore bei der bodenbearbeitung. *Unser Hof* 1948: 39-41. 18 Un72

21002 LEIDL, E. Der bodenseilpflug. *Salzburg. Bauer* 3(46): 3-6. Nov. 11, 1948. 19 Sa3

21003 LERICHE, J. Le travail de la charrue et celui du motoculteur. *J. de la France Agr.* 4: 977. Nov. 12/18, 1948. 14 J829

21004 LURA, L. E. Rotary tillers—merits and demerits of their present design. (Excerpts.) *Impl. Rec.* 45(12): 26-27. Dec. 1948. 58.8 Im73

21005 MALAN, A. H. The verandah trellis. *West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser.* 55, 5 p. Jan. 1947. 87 St3



- 21006 MEINDL, G. Beihilfeaktion für vielfach-  
geräte. *Landwirtschaft* 1948: 262-264. Sept. 18, 1948.  
19 L235
- 21007 REITMEYER, H. Der anbau des Printz-  
sattelpluges an den Steyr-tractor. *Landtechnik* [Wien]  
1: 352-353. Nov. 1948. 58.8 L236
- 21008 SALOM, J. Máquinas de labranza en la Feria  
Internacional de Barcelona. Balearic Isl. Diputación  
Prov. B. de Agr. 47: 4-5. Aug. 1948. 15 B19
- 21009 SOBRERO, L. R. Arado rastra. *Campo y  
Suelo Argentino* 32(384): 13. Oct. 1948. 9 C15
- 21010 TURNER, H. E. Up a tree with an electric  
chain saw. *Amer. City* 63(12): 124. Dec. 1948.  
98.58 Am31

#### Fertilizer and Seed Distributors

- 21011 BARMINGTON, R. D. The relation of seed,  
cell size, and speed to beet planter performance. *Agr.  
Engin.* 29: 530-532. Dec. 1948. 58.8 Ag83
- 21012 BISTAGNE, C. L'avion pour semer le pin  
d'Alep. *Réveil Agr.* 57: 290. Oct. 1, 1948. 14 R322
- 21013 MCBIRNEY, S. W. The relation of planter  
development of sugar-beet seedling emergence. *Agr.  
Engin.* 29: 533-536. Dec. 1948. 58.8 Ag83
- 21014 RAUSSENDORF, C. W. Das abdrehen der  
drillmaschine. *Bauern-Jahrb.* 1948: 41-43. 18 B322
- 21015 SEYFARTH. Vereinfachte aussaat durch  
scheibenrollen-drillmaschinen. *Land, Wald u. Garten* 3:  
53. Mar. 1948. 18 L22
- 21016 THEBIS, R. Feld-, weinberg- und garten-  
düngung durch düngerverflüssigung. *Land, Wald u.  
Garten* 3: 65-66. Mar. 1948. 18 L22
- Spraying equipment.

#### Harvesting Equipment

- 21017 ABIET, P. Une solution moderne au problème  
de la récolte des betteraves. *Monit. de la Mécan. Rurale*  
41: 253, 255. Sept. 1948. 58.8 M74
- 21018 ARBEITSTECHNIK in der zuckerrüben-  
ernte. *Landtechnik* [Wien] 1: 323-326. Oct. 1948. 58.8 L236
- 21019 COWAN, J. R. Keeping up with haying. *Mac-  
donald Col. J.* 9(3): 2-3. Nov. 1948. 101 M144
- Methods and equipment.
- 21020 GIAUQUE, L. E. Topping demonstration im-  
presses growers. *Through Leaves* 26(5): 11-12.  
Sept./Oct. 1948. 66.8 T41
- Sugar beets.
- 21021 GROVE, P. Header power-drives. Make your  
own by using old differential as the bevel gear-box.  
*Power Farming Austral.* 57(10): 50-51. Oct. 1948.  
58.8 P87
- 21022 HAY, T. What was the first lawn mower like?  
*Smallholder* 80(2017): 10. Nov. 26, 1948. 10 Sml
- 21023 HERBSTHOFER, F. Der europäische mäh-  
drescher. *Landtechnik* [Wien] 1: 226-230. July 1948.  
58.8 L236
- 21024 LOY, G. VAN. Rapport des essais effectués  
sur la ramasseuse-presse "New Holland." *Equip. Rur.*  
1: 24-40. May 1948. 58.8 Eq5
- 21025 MARTINEAU, R. Démonstrations internatio-  
nales pour l'arrachage, le chargement et le débardage  
mécaniques des betteraves. *Défense Agr. de la Beauce  
et du Perche* 45: 296. Nov. 1, 1948. 14 D36
- 21026 MIGNOTTE, F. L'arrachage mécanique des  
betteraves. *Agriculture* [Paris] 12: 349-353, 355. Nov.  
1948. 14 Ag823
- 21027 MOIZART, and VOHELLE. Mécanisation de  
la récolte des oléagineux. *France. Min. de l'Agr. B.  
Tech. d'Inform.* 28/29: 217-219. Apr./May 1948.  
14 F844B
- 21028 NYDEGGER, W., and BIKLE, A. Vorführung  
neuzeitlicher kartoffelgraber mit zuckerrübenbauma-  
schinen. *Grüne* 76: 1162-1171. Oct. 29, 1948. 17 Sch9
- 21029 RUPP, L. S. Test of the Massey Harris  
harvester. (In Portuguese.) *Lav. Arroz.* 2(20): 15-22.  
(Concl.) Aug. 1948. 59.8 L39
- 21030 SHELDON, W. H., and DEXTER, S. T. Har-  
vesting Ladino cloverseed with a vacuum harvester.  
*Mich. Agr. Expt. Sta. Q. B.* 31: 215-218. Nov. 1948.  
100 M58S
- 21031 WILLIAMS, J. L. Morgan County [Colo.]  
mechanizes the 1948 beet harvest. *Through Leaves* 26  
(5): 22-23. Sept./Oct. 1948. 66.8 T41

#### Land Clearing Equipment

- 21032 ANDAL, M. E. Use of power machinery in  
bush land improvement in northeastern Saskatchewan.  
*Canada. Dept. Agr. Farmers' B.* 153, 13 p. Nov. 1948.  
7 C16F
- 21033 FRY, H. S. Second chance. Mechanized land  
clearing for veterans! *Country Guide* 67(12): 10, 32,  
34. Dec. 1948. 7 G76
- 21034 MONTI, V. B. A handy aid to the clearer.  
*West. Austral. Dept. Agr. Leaflet* 918, 5 p. Perth, 1948.  
23 W52B

#### Processing Equipment Used on the Farm

- 21035 ANDRIBET, P., and BOURU, M. Précisions  
sur l'emploi des "siccateurs". *Agr. Charentais* 3(9): 2.  
Oct. 1948. 14 Ag825
- 21036 BRUGGEMANS. Considérations sur les  
séchoirs à grains. *Equip. Rur.* 1: 40-43, 90-97. May,  
July 1948. 58.8 Eq5
- 21037 BRUNI, G. The "micropila." (In Italian.)  
*Macch. e Motori Agr.* 6: 477-480. Oct. 1948. 58.8 M13
- Machine for processing rice.
- 21038 DEXTER, S. T. An oil-distillation method for  
determining the moisture content of farm crops [grass  
for silage]. *Mich. Agr. Expt. Sta. Q. B.* 31: 248-253.  
Nov. 1948. 100 M58S
- Equipment.
- 21039 EDWARDS, P. W., and others. Producing  
feed and flour from white potatoes with steam tube dri-  
ers. *Bur. Agr. and Indus. Chem. AIC-209*, 7 p. Nov.  
1948. 1.932 A2Ag82
- C. S. Redfield, A. Hoersch, Jr., and R. K. Eskew, joint  
authors.
- 21040 HAFELE, C. Tücken einer dreschmaschine.  
*Drescher u. Pflüger* 1(3): 2-3. Sept. 1948. 48.8 D81
- 21041 HOLMES, W. General methods of fodder con-  
servation. *Agr. Prog.* 22: 79-86. Ref. 1947. 10 Ag86
- Hay making.
- 21042 IRIANNI, A. The loss of grain in threshing-  
machines. (In Italian.) *Macch. e Motori Agr.* 6: 343-  
345. Aug. 1948. 58.8 M13
- 21043 JEZEK, R. E. Some factors affecting tung nut  
drying. *Agr. Engin.* 29: 545-547. Dec. 1948. 58.8 Ag83
- 21044 LAMBORN, E., and WEBSTER, W. L. Custom  
work with pickup hay balers. *N. Y. Agr. Col. Farm  
Econ.* 164: 4235-4236. Nov. 1948. 280.8 C812
- 21045 MIGNOTTE, F. La batteuse: avant sa mise en  
route. *Monit. Agr.* 1(48): 4. (Cont.) Dec. 12, 1948.  
14 M744
- 21046 REHRL, K. Dreschverluste vermeiden!  
*Pflug* 1: 140-142. Sept. 1948. 19 P48
- Equipment.
- 21047 SCHMIDT, M. Die trocknung landwirtschaft-  
licher erzeugnisse. *Deut. Bauerntech.* 2(7): 10-13. July  
1948. 58.8 D48
- 21048 U. S. BUR. OF DAIRY INDUSTRY. Experiment-  
al flow-diversion valve developed for use in BDI research  
laboratories. *U. S. Bur. Dairy Indus. BDIM-Inf-65*, 2 p.  
Nov. 1948. 1.973 D4B34
- For temperature control of milk pasteurizer.
- 21049 VERTA, A. A. Report on approved cleaning  
plant. *Minn. Seed Grower* 21(6): 3-4. Dec. 1948.  
61.8 M66
- 21050 WANGERIN. Reuterherstellung, eine zweck-  
mäßige winterarbeit. *Land, Wald u. Garten* 3: 8-9.  
Jan. 1948. 18 L22
- 21051 WOLFF, O. Die zerkleinerung der kartoffeln  
und die auswaschung des reibels bei der herstellung von  
kartoffelstärke. *Deut. Bauerntech.* 2(7): 16-17. July  
1948. 58.8 D48
- 21052 WYLIE, C. E. Make hay when it needs to be  
made. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 63(11): 16,  
116. Nov. 1948. 6 P945K
- Barn driers.

#### Repair, Maintenance, and Construction Equipment

- 21053 CANONVILLE, M. R. Questions économiques  
intéressant les artisans ruraux. *Monit. de la Mécan.  
Rurale* 41: 292-293, 295-296. Oct. 1948. 58.8 M74
- France.
- 21054 MCCREIGHT, M. G. Carbon arc torch widens  
welder uses. *Nebr. Elect. Farmer* 2(12): 17-18. Dec.  
1948. 335.8 N27



- 21055 MILLER, I. Welder called "power jack knife" as whittler gives up to progress. *Cur. Speaking* 3(9): 9. Oct. 1948. 335.8 C93
- 21056 STEPHENSON, A. E. Welding on the farm: structural work. *Westralian Farmers' Co-op Gaz.* 14: 259-261. Oct. 1948. 280.28 W522
- 21057 THEBIS, R. Macht die geräte zur frühjahrsbestellung einsatzbereit! *Land, Wald u. Garten* 3: 52-53. Mar. 1948. 18 L22

#### Spraying and Dusting Equipment

- 21058 CLARK, R. M. One season's experience with a liquid duster. *Iowa State Hort. Soc. Proc.* 82: 91-96. 1948. 81 I09
- 21059 HEDLIN, R. Spray wise. *Country Guide* 67(12): 11, 18. Dec. 1948. 7 G76
- A universal sprayer.
- 21060 JACOBS, A. Les pulverisateurs. *Rev. de l'Agr.* 1: 753-760. (Cont.) Sept./Oct. 1948. 13 R322
- 21061 JACOBS, M. A. Pulvérisateurs mécaniques. *Équip. Rur.* 1: 60-77. July 1948. 58.8 Eq5
- 21062 JOHNSON, A. D. A small power sprayer. *Amateur Gard.* 65(3361): 17. Oct. 12, 1948. 80 Am13
- 21063 MILLER H. J., FREAR, D. E. H., and FAGAN, F. N. Orchard sprayer performance; speed sprayer and mast sprayer compared with conventional hand spray guns. *Pa. Agr. Expt. Sta. B.* 503, 9 p. July 1948. 100 P381
- 21064 SHANKS, G. L., and PATERSON, J. J. Technique for spray nozzle testing. *Agr. Engin.* 29: 539-540. Dec. 1948. 58.8 Ag83

#### Vehicles

- 21065 BERNARD, P. La motoculture n'est pas un sport; cheval ou tracteur? ou cheval et tracteur? *Monit. Agr.* 1(45): 2. Nov. 21, 1948. 14 M744
- 21066 CROSBY, J. Farm flyers prove air flivver here to stay. *Calif. Farmer, South. Ed.* 189: 364-365. Oct. 23, 1948. 6 C126A
- 21067 DELASNERIE, J. L'apport du pneumatique agraire dans la modernisation des véhicules. *Monit. Agr.* 1(45): 4. Nov. 21, 1948. 14 M744
- 21068 DELASNERIE, J. Les véhicules modernes: formules classiques et techniques nouvelles. *Monit. Agr.* 1(46): 4. Nov. 28, 1948. 14 M744
- 21069 DIERFELD, G. F. Fahrzeuggenerator und landwirtschaft. *Deut. Bauerntech.* 2(7): 13-15. July 1948. 58.8 D48
- Gas producers for automotive fuel.
- 21070 DRICOT, C. Essais du tracteur "Claeys" effectués par la Station de Génie Rural de l'Etat à Gembloux. *Equip. Rur.* 1(1): 11-24. May 1948. 58.8 Eq5
- 21071 DRICOT, C., BRUGGEMANS, and DUFEY, Essai du tracteur "Fowler F. D. 2" avec fraise. *Equip. Rur.* 1: 78-84. July 1948. 58.8 Eq5
- 21072 EARLE, P. A. How to select the right tractor for your farm work. (In Afrikaans.) *Wynboer* 17(206): 23-26. Nov. 1948. 390.8 W724
- 21073 ENGELHARD, J. Après les démonstrations de motoculture de Senlis; nomenclature des tracteurs exposés; commentaires et annotations. *Monit. de la Mécan. Rurale* 41: 277-280. (To be cont.) Oct. 1948. 58.8 M74
- 21074 ENGELHARD, J. Le tracteur est arrivé. *Rustica* 21: 813. Nov. 14, 1948. 14 R92
- 21075 ESTEREES, A. M. D'. Un tracteur vigneron à chenilles. *Foyer Rur.* [Paris] 11(57): 4. Nov. 28, 1948. 14 F83
- 21076 HAIN, K. Der entwurf von achsschenkel-lenkgetrieben. *Landtechnik* 3: 333-336. Sept. 30, 1948. 58.8 L235
- 21077 HOFF, P. R. Winter tractor care. *Amer. Agr.* 145: 653. Dec. 4, 1948. 6 Am3
- 21078 JANSSON, S. Machine stations. (In Swedish.) *SL-kontakt* 1948: 3-6. 11 Sv28S
- 21079 LAMY, R. Aurons-nous bientôt plus d'essence? Oui, si la répartition est mieux contrôlée. *Moisson* 4(168): 1-2. Dec. 3, 1948. 14 M72
- France.
- 21080 LOB, G. Der universal-kleinschlepper als Alpentraktor. *Landtechnik* [Wien] 1: 355-356. Nov. 1948. 58.8 L236

- 21081 ORSMOND, F. P. Mechanization at Gwebi: the "multiple hitch." *South Rhodesia. Dept. Agr. and Lands B.* 1441, 3 p. Salisbury, 1948. 24 R345
- 21082 PATRICK, R. L. Your tractor—keep it properly oiled and greased. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(11): 49. Nov. 1948. 6 So81
- 21083 SERVE, J. Aurons-nous des tracteurs? *Foyer Rur.* 11(49): 1, 4. Oct. 3, 1948. 14 F83
- France.
- 21084 SERVE, J. La motoculture moderne. *Agr. Charentais* 3(9): 2. Oct. 1948. 14 Ag825
- Tractors.
- 21085 SPEAR, G. A "tricycle" tractor. *Poultry Farmer* [London] 119(3100): 9. Dec. 3, 1948. 47.8 F312
- 21086 STAUSS, W. Pferd oder schlepper im kleinbauernbetrieb. *Saat u. Ernte* 3(10): 7. Oct. 1948. 18 Sa12
- 21087 STEFANELLI, G. Evoluzione e criteri tecnico-costruttivi per il dimensionamento della trattoria agricola in rapporto alle condizioni di impiego [Evolution and technico-constructive criteria for the size of agricultural tractors in relation to conditions of use]. Milan, 1947. 15 p. 58 St32E
- 21088 TAYLOR, F. J. They're farming by plane. *Country Gent.* 118(11): 26, 98-100. Nov. 1948. 6 C833
- 21089 TUCKER, D. Ranchers take to the air. *Amer. Hereford J.* 39(17): 78-80, 82. Jan. 1, 1949. 43.8 Am32
- 21090 VITEAU, R. La piste d'essais de pneumatiques de la Station Centrale d'Essais de Machines du Ministère de l'Agriculture. *Rev. Gén. du Caoutchouc* 25: 441-443. Nov. 1948. 305.8 R32
- English summary, p. 466.
- 21091 WINTER, F. Die entwicklung der traktorenverwendung und -produktion. *Landtechnik* [Wien] 1: 341. Oct. 1948. 58.8 L236

#### FARM STRUCTURES AND RURAL HOUSING

- 21092 CARTER, D. G. Seven-point program for farm-building management. *Capper's Farmer* 59(11): 9, 44, 45. Nov. 1948. 6 M693
- 21093 DARBY, B. T. Tied houses: towns have them, too. *Farmer & Stock-Breeder* 62: 2714-2715. Nov. 23, 1948. 10 F228
- Rural housing in England.
- 21094 HIMBEECK, C. VAN. La ferme de l'avenir. *Rev. de l'Agr.* 1: 761-788. (To be cont.) Sept./Oct. 1948. 13 R322
- Buildings and layouts.
- 21095 KURATORIUM FÜR TECHNIK IN DER LANDWIRTSCHAFT. Neuzeitliche kleinbauerngehöfte. Berlin, Deutscher Zentralverlag, 1948. 138 p. (Its Schriftenreihe. 3) 296 K962
- 21096 MILLER, T., GRIGUTSCH, E. G., and SCHULZE, K. W. Lehmbaufibel; darstellung der reinen lehmbauweisen. Weimar, Ger., 1947. 103 p. (Schriftenreihe der Forschungsgemeinschaften Hochschule. 3) 299 M612
- 21097 MÖRTL, E. Die planung entscheidet. Landwirtschaftliche bauten und hofanlagen. *Landtechnik* [Wien] 1: 331-333. Oct. 1948. 58.8 L236
- 21098 SATO, J. Capital construction and modernization in agricultural production. (In Japanese) *Ohara Inst. Agr. Res. Rpt.* 37(1): 32-36. June 1947. 22.5 N684
- 21099 SCHNEIDER, W. Erfahrungen mit der Kreislandbaugenossenschaft Oberbarnim. In Erbs, K., ed. Neubauernsiedlung und wiederaufbau des landes, p. 15-16. Berlin, 1947. 282.2 Er1
- 21100 SERS, J. L'entretien général des bâtiments de ferme. *Rustica* 21: 805. Nov. 14, 1948. 14 R92

#### Animal Shelters and Animal Service Buildings

- 21101 BAISCH, K. Richtiger schweinehaltungsbau. *Württemberg. Wchnbl. f. Landw.* 115: 298-299. Oct. 23, 1948. 18 W96
- 21102 BROWN, L. H., and HARDIN, L. How about a pen barn for your cows? *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1948: 6-7. Nov. 20, 1948. 275.29 In2En
- 21103 BURGESS, E. S. Repairs postponed can cost a great many winter eggs. *Smallholder* 80(2016): 19. Nov. 19, 1948. 10 Sm1
- Repairs to the poultry house.
- 21104 CANESTRARI, R. Domestic poultry houses. (In Italian.) *Allevatore* 4(38): 3. Sept. 19, 1948. 49 AL55



- 21105 CANESTRARI, R. Practical rules for a rational poultry house. (In Italian.) *Allevatore* 4(36): 3. Sept. 5, 1948. 49 AL55
- 21106 CORDS-PARCHIM, W. Der gesunde stall; wärmeschutz und belüftung der viehställe. Ed. 2. Berlin, Tempelhof, 1947. 101 p. (Schriften-Reihe der "Neuen Bauwelt") 291 C812
- 21107 DYKSTRA, R. R. Sanitation, comfort and convenience in animal husbandry. *Sheep & Goat Raiser* 29 (3): 52-53, 56. Dec. 1948. 45.8 Sh3
- 21108 FOSTER, R. L. Hen house air conditioning. *Capper's Farmer* 59(11): 12, 93. Nov. 1948. 6 M693
- 21109 GORSLINE, E. P. Desert poultry housing. Temperatures range from near zero to 100 degrees and over. Good ventilation and insulation are important. *Pacific Poultryman* 53(1): 10, 28-29. Jan. 1949. 47.8 P112
- 21110 HARPER, J. A. Home unit poultry house; this 8 by 12 house is designed for the backlot flock owner whose space is very limited. *Pacific Poultryman* 53(1): 12, 23. Jan. 1949. 47.8 P112
- 21111 HILL, O. J., and KNOTT, J. C. Safety pays off in a bull pen. *West. Dairy J.* 5(2): 24. Dec. 1, 1948. 44.8 W524
- 21112 HOUT, F. VAN. An important factor for health and yield, the poultryhouse, general observations. (In Flemish.) *Cult. en Handel* 14: 791-792. Dec. 1948. 80 C892
- 21113 KELLER, J. Schaltuhr mit quecksilberregler. *Geflügelhof* 11: 749. Nov. 26, 1948. 47.8 G276
- Automatic control switch for poultry house lighting.
- 21114 KENNEY, S. M. A simple brooder house. *Rural New-Yorker* 98: 779. Dec. 18, 1948. 6 R88
- 21115 KLEIN, G. T. American houses save labour. *Poultry Farmer* [London] 119(3101): 4. Dec. 10, 1948. 47.8 F312
- 21116 KREUTZER, F. J. Save that good old barn; stop excessive deterioration. *New England Homestead* 121(20): 3. Oct. 23, 1948. 6 N442
- 21117 LEGENDRE, G. Le lapin est souvent mal logé; fabriquez des cases convenables. *J. de la France Agr.* 4: 986. Nov. 26/Dec. 2, 1948. 14 J829
- 21118 LUITEN, I. H. He cuts chore-time in half. *Farm J.* 72(11): 30-31. Nov. 1948. 6 F2212
- Milking parlor.
- 21119 MULLER, P. Gesunde stallluft—gesunde tiere; die stalllüftung im neubauernstall. *Deut. Bauerntech.* 2 (8): 13-18. Aug. 1948. 58.8 D48
- 21120 NORINGBAUER, G. Der schweineestall im bäuerlichen klein- und mittelbetrieb. *Landtechnik* [Wien] 1: 321-323. Oct. 1948. 58.8 L236
- 21121 NOTH, H. Die rindviehaufstallung; kurzstand und hochstand. *Deut. Bauerntech.* 2(7): 1-5. July 1948. 58.8 D48
- 21122 OSSE, L. Layout for milking. (In Portuguese.) *Rev. dos Criadores* 18(12): 65-66. Dec. 1947. 43.8 R32
- 21123 PERKINS, B. G. Portable shelters help save hogs. *Farm J.* 72(11): 31. Nov. 1948. 6 F2212
- 21124 RAUSCHER, R. Arbeitstechnische gesichtspunkte beim bau von scheunen und stadeln. *Landtechnik* [Wien] 1: 330-331. Oct. 1948. 58.8 L236
- 21125 ROSENHEIM, H. H. A survey of poultry house lighting. *Canada Poultryman* 35(11): 30-31. Nov. 1948. 47.8 C166
- 21126 SCANLON, C. M. Housing the hamster. *All-Pets Mag.* 19(11): 62-63. Nov. 1948. 48.8 AL5
- 21127 SCHENKELBERG, A. Gute luft in die ställe! *Allgäuer Bauernbl.* 16: 302. Nov. 26, 1948. 18 AL53
- 21128 SCHMIDT, R. A new form of hen-house. *World's Poultry Cong. Off. Rpt.* 8: 473-476. 1948. 47.9 W898O
- French summary.
- 21129 SCHNEITER, F. Stalllüftung, genauer betrachtet. *Landtechnik* [Wien] 1: 356-358. Nov. 1948. 58.8 L236
- 21130 SCHULZ, W. G. Keep 'em happy this winter in a loafing shed. *West. Dairy J.* 5(1): 15, 39-42. Nov. 1, 1948. 44.8 W524
- 21131 SERS, J. Quelques idées à puiser dans les fermes suisses. *Rustica* 21: 885. Dec. 12, 1948. 14 R92
- Livestock housing.
- 21132 SERS, J. Transformation d'une porcherie en Limousin. *Rustica* 21: 843, 858. Nov. 28, 1948. 14 R92
- 21133 SPINK, A. E. How I save ten men on chick rearing and get better chicks. *Poultry Farmer* [London] 119(3098): 4. Nov. 19, 1948. 47.8 F312
- Radiant heat floor brooder house.
- 21134 SPINK, A. E. Radiant heat floor brooding in operation. *Poultry* [London] 103: 394, 416. Nov. 16, 23, 1948. 47.8 P869
- 21135 STAEHELIN. Alte pfannen als trinkgefäße. *Geflügelhof* 11: 739. Nov. 19, 1948. 47.8 G276
- 21136 STRATTON, C. L. The Three "H" Farm—a dairyman's dream; plenty of room to move about, practically fireproof and constructed entirely of steel and concrete. *New England Homestead* 121(23): 8, 9. Dec. 11, 1948. 6 N442
- Dairy barn.
- 21137 SUTTON, J. Dry floors mean less coccidiosis. *Poultry* [London] 103: 327. Oct. 26, 1948. 47.8 P869
- Radiant heating of brooder houses.
- 21138 TAYLOR, J. C. Laying house management. *N. J. Farm & Gard.* 19(11): 34, 36-37. Nov. 1948. 6 G162
- 21139 TEESDALE, L. V., and DUNLAP, M. E. How much insulation do you need? *Prairie Farmer, Gen. Ed.* 120(23): 10, 11. Nov. 6, 1948. 6 P883
- In the dairy barn.
- 21140 TEESDALE, L. V., and DUNLAP, M. E. Insulation and ventilation prevent condensation in barns. *U. S. Forest Serv. Forest Prod. Lab. Mimeog.* D1720, 4 p. Apr. 1948. 1.9 F761R
- 21141 THERE'LL be some changes made! Sealtest Dairyman 2(5): 2-9. Nov./Dec. 1948. 44.8 Scl
- Relative merits of various types of housing for dairy cattle.
- 21142 TROW-SMITH, R. Winter milk without worry. *Farmer & Stock-Breeder* 62: 2842-2843. Dec. 7, 1948. 10 F228
- A building for dairy cattle.
- Farmhouses and Farmsteads
- 21143 ANDLINGER, H. Wege zum besseren wohnen im bauernhaus. *Landtechnik* [Wien] 1: 364-366. Nov. 1948. 58.8 L236
- 21144 GÖLTENBOTH-CAPPEL, G. Die praktische bäuerliche wohnung. *Württemb. Wchnbl. f. Landw.* 115: 265. Sept. 25, 1948. 18 W96
- 21145 HERVEY, C. Just what you ordered. *Farm J.* 72(11): 32. Nov. 1948. 6 F2212
- Farm house plan.
- 21146 HILSCHER, H. H. Die baudurchführung der bauerngehöftanlagen. In Erbs, K., ed. *Neubauernsiedlung und wiederaufbau des landes*, p. 14-15. Berlin, 1947. 282.2 Erl
- 21147 KRUEGER, W. C. Tribune-way one-story farm house, this modern farm home is planned for real comfort and convenience. *Poultry Tribune* 55(1): 12-13. Jan. 1949. 47.8 P8644
- 21148 MILLETTI, R. Advice on rural architecture: should the farmhouse be separate from the barn? (In Italian.) *Terra e Sole* 73/74: 747-748. Nov. 1948. 16 T273
- 21149 OSSE, L. Rural construction. (In Portuguese.) *Rev. dos Criadores* 19(2): 32. Feb. 1948. 43.8 R32
- 21150 RAMAKRISHNAN, K. C. Rural housing and co-operation in Madras. *Indian Co-op. Rev.* 14(1/2): 66-71. Jan./June 1948. 280.28 In2
- Also in *Madras J. Co-op.* 40: 97-102. Sept. 1948. 280.28 M26
- 21151 RYAN, J. M. Farmstead improvement. *Dakota Farmer* 68(21): 8. (To be cont.) Nov. 6, 1948. 6 D14
- Remodeling the farm house.
- 21152 SCHERZER, C. Bauernhausformen deutscher landschaften und volksstämme. *Unser Hof* 1948: 42-46. 18 Un72
- Greenhouses and Plant Service Buildings
- 21153 BENNETT, L. G. Small growers need more fuel. (Sum.) *Grower* 30: 1051-1052. Dec. 18, 1948. 286.83 M34
- Greenhouse heating.
- 21154 BROWN, P. H. Light on lights. 6. Flower crops in frames and structures. *Grower* 30: 1048-1050. Dec. 18, 1948: 286.83 M34



21155 DRUMMOND, W. C. Heating the greenhouse with open flame gas. *Begonian* 15: 258. Nov. 1948. 96.511 B39

21156 PROCTER, G. C. Trying the uneven span glasshouse. *Grower* 30: 1008-1009. Dec. 11, 1948. 286.83 M34

21157 PROCTER, G. C. Under glass: low pressure steam in Guernsey. *Grower* 30: 830-832. (To be cont.) Nov. 13, 1948. 286.83 M34

21158 RUPPRECHT. Um die ölfeuerung. *Thür. Gartenbau* 1948: 187-188. Nov. 15, 1948. 80 T42  
Greenhouse heating.

21159 SHEWELL-COOPER, W. E. Electricity in horticulture; power, heating and lighting in the up-to-date glasshouse. *Field* 192: 643. Dec. 4, 1948. 10 F45

21160 SHEWELL-COOPER, W. E. Modern greenhouses; scientific construction and planning for maximum sunlight. *Field* 192: 611. Nov. 27, 1948. 10 F45

#### Materials and Methods

21161 DRIFTMIER, R. H. How to get good roofs. III. Rules for using aluminum. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(11): 44. Nov. 1948. 6 So81

21162 HASENJÄGER. Der lehmbau. In Erbs, K., ed. *Neubauernsiedlung und wiederaufbau des landes*, p. 17-18. Berlin, 1947. 282.2 Er1

21163 HUMBERT, W. Comment remédier aux défauts du béton: la pouzzolane. *Acclimatation* 75: 205. Sept. 25, 1948. 14 Ac2

21164 MATTHEWS, C. A. Spray painting farm metal roofs. *Agr. Engin.* 29: 542-544. Dec. 1948. 56.8 Ag83

21165 MURAYAMA, S. J. Uses of bamboo on the farm. (In Portuguese.) *Criação e Vet.* 2: 163. Aug. 1947. 49 C86

#### Storage Structures

21166 FERNÁNDEZ YEPEZ, A. Granero rústico para uso del campesino. *Venezuela. Div. de Ext. Agr.* P. 1, 19 p. Jan. 1947. 275.249 V55

21167 MÜLLER, P. Der bau von gärfutterbehältern. *Deut. Bauerntech.* 2(7): 5-9. July 1948. 58.8 D48

21168 QVIRIN-HANSEN, O. Cooperative silos and [grain] storage buildings. (In Danish.) *Dansk Landbr.* 67: 478-479. Dec. 9, 1948. 280.28 V91

21169 ROUSSIAUX, P. Un silo démontable et économique. *J. de la France Agr.* 4: 992. Dec. 3/9, 1948. 14 J829

21170 STEINDL, E. Der grütfuttersilo im bauernbetrieb. *Landtechnik [Wien]* 1: 231-232. July 1948. 58.8 L236

21171 TOMASI, K. Was ist beim bau von düngersammelanlagen zu beachten? *Salzburg. Bauer* 3(44): 2-3. Oct. 7, 1948. 19 Sa3

#### Walls and Fences

21172 ASPINAL, J. Too much barbed wire. *Farmer & Stock-Breeder* 62: 2801. Nov. 30, 1948. 10 F228

Hedging instead of fencing.

21173 CARMICHAEL, J. M. Thorny fence. *Cattleman* 35(8): 21-24, 52-54. Jan. 1949. 49 C29  
History of barbed wire.

21174 EGERTON, J. R. Electric fencing does it easier. *Dairy Goat J.* 26(12): 12. Dec. 1948. 40.18 M592

21175 HOYS, D. Walls across the fells; craftsmanship in the Lake District a hundred years ago. *Field* 192: 635-636. Dec. 4, 1948. 10 F45

21176 KREHON. Was sagt das gesetz über den gartenzaun? *Pflug* 1: 192. Nov. 1948. 14 P48  
Austria.

21177 MONTGOMERY, G. A. Fence keeps land fertile. *Capper's Farmer* 59(11): 11, 46. Nov. 1948. 6 M693

Chiefly construction.

21178 OTTO, H. J. Der elektrische weidezaun. *Landw. Wohnbl.* 138: 352-353. Nov. 6, 1948. 18 L2338

21179 REHRL, J. Der technische aufbau der elektroweide! *Salzburg. Bauer* 3(44): 4-5. Oct. 7, 1948. 19 Sa3

21180 SMITH, H. P. Atmospheric corrosion tests on wire. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1137, 2 p. Nov. 22, 1948. 100 T31P

Farm fence wire.

21181 SNYDER, H. Fencing, an important part of preparations for successful live stock farming. *Sheepman* 19: 310-311, 318. Dec. 1948. 45.8 Sh32

21182 ZÜRN, F. Wie bewährt sich der elektrische weidezaun? *Pflug* 1: 169. Oct. 1948. 19 P48

#### FARM UTILITIES

##### Electricity and Electrification

21183 AMPERE, K. V. Trees present one of co-op's most serious and costly problems. III. *REA News* 6(8): 5. Jan. 1949. 335.8 IL62

21184 CARL, R. Tariffen bei der versorgung landwirtschaftlicher abnehmer mit elektrischer energie. *Landtechnik [Wien]* 1: 307-310. Sept. 1948. 58.8 L236

21185 DAVID. Die versorgung der landwirtschaft mit elektrischen geräten. *Landtechnik [Wien]* 1: 289-292. Sept. 1948. 58.8 L236

21186 DONKO, F. Elektrowärme in der landwirtschaft. *Landtechnik [Wien]* 1: 292-295. Sept. 1948. 58.8 L236

21187 ERBACHER, W. Die steigerung des stromkonsums in den schon bestehenden netzteilen. *Landtechnik [Wien]* 1: 281-284. Sept. 1948. 58.8 L236

21188 ERNEGG. Aufbau der landwirtschaft—elektrifizierung—musterhöfe. *Landtechnik [Wien]* 1: 301-304. Sept. 1948. 58.8 L236

21189 FRANK, W. Allgemeine gesichtspunkte zum ausbau des elektrischen netzes in landwirtschaftlichen gebieten. *Landtechnik [Wien]* 1: 242-247. Sept. 1948. 58.8 L236  
Austria.

21190 GALE, F. T. Economic & economical aspects of farm electrification. *Engin. J.* 31: 633-637. Dec. 1948. 290.9 En3

21191 GALLAGHER, H. J. Planning ahead for the rural load. *Farm Electrification* 2(6): 26-29. Nov./Dec. 1948. 335.8 F224

21192 GENERAL ELECTRIC COMPANY. APPARATUS DEPT. Farm electrification programs to help you bring power to the American farmer. *Schenectady*, 1948. 1 v. 335 G2823F

21193 GRIMM, H. Deckung des strombedarfes der landwirtschaft. *Landtechnik [Wien]* 1: 255-258. Sept. 1948. 58.8 L236  
Electricity.

21194 HARTMANN, F. Die finanzierung des ausbaues ländlicher versorgungsnetze. *Landtechnik [Wien]* 1: 260-264. Sept. 1948. 58.8 L236

Electrification policy.

21195 HELLER, R. Anschluss von bergbauernsiedlungen und deren wirtschaftlichkeit. *Landtechnik [Wien]* 1: 278-281. Sept. 1948. 58.8 L236

Electric transformer stations.

21196 KALLBRUNNER, H. Die forderungen der landwirtschaft an die elektrizitätserzeuger. *Landtechnik [Wien]* 1: 310-311. Sept. 1948. 58.8 L236

21197 KIMBROUGH, O. Where do we go from here? Growing complexity requires co-ops to fill gap left by REA curtailment. *Rur. Electrification Mag.* 7(4): 18. Jan. 1949. 335.8 N21

21198 KLIMESCH, A. Reparatur und überwachung von stromversorgungsanlagen. *Landtechnik [Wien]* 1: 295-297. Sept. 1948. 58.8 L236

21199 LISSNER, T. Förderung von kleinkraftanlagen und netzanschlüssen durch das Bundesministerium f. Land- u. Forstwirtschaft und deren finanzierung. *Landtechnik [Wien]* 1: 247-250. Sept. 1948. 58.8 L236

21200 LOVE, J. C. Problems and experiences in teaching electrification subjects to vocational agriculture students. *Farm Electrification* 2(6): 23-25. Nov./Dec. 1948. 335.8 F224

21201 LUSE, P. Planning needed for survival of co-ops; system manager outlines plans for future of rural electrics. *Rur. Electrification Mag.* 7(4): 19, 52. Jan. 1949. 335.8 N21

21202 MACHATA, F. Die hydroelektrische eigenanlage im dienste der landwirtschaft. *Landtechnik [Wien]* 1: 271-273. Sept. 1948. 58.8 L236

21203 MAUNEY, R. Two years experience with a rural electric show and our plans for the future. *Farm Electrification* 2(6): 1-6. Nov./Dec. 1948. 335.8 F224

21204 MENGELE, B. Die stromversorgung von streusiedlungen. *Landtechnik [Wien]* 1: 273-278. Sept. 1948. 58.8 L236

Electric transformers.



21205 NEAL, W. J. The REA has a big job; America's appetite for electricity is fast growing beyond supply. *Natl. Grange Monthly* 45(11): 6, 8, 12. Nov. 1948.

6 N215

21206 OSER, R. Materialdeckung für den weiteren ausbau des ländlichen versorgungsnetzes. *Landtechnik* [Wien] 1: 252-255. Sept. 1948. 58.8 L236

21207 PETTERS, F. Die finanzierung des ausbaues ländlicher versorgungsnetze in Kärnten. *Landtechnik* [Wien] 1: 264-268. Sept. 1948. 58.8 L236

21208 PIEGGER, Die elektrifizierung des inneren Pitztales. *Landtechnik* [Wien] 1: 268-271. Sept. 1948. 58.8 L236

21209 PRATTER, F. Elektrizität—eine grundforderung der landwirtschaft. *Landtechnik* [Wien] 1: 258-259. Sept. 1948. 58.8 L236

21210 PRIESTMAN, H. L. E. Electrification of rural areas expected to raise agricultural output of Eire. *Foreign Trade* 5: 18. Jan. 1, 1949. 286.8 C162

21211 PURGYI, P. Was erwartet sich die landwirtschaft von der elektrifizierung? *Landtechnik* [Wien] 1: 250-252. Sept. 1948. 58.8 L236

21212 ROPER, S. G. Electricity services and clean milk production. *Soc. Dairy Technol. J.* 2(1): 22-25. Oct. 1948. 44.8 S012

Discussion, p. 25-26.

Farm electrification in England and Wales.

21213 SCHACHINGER, M. Futterdämpfen und wäschereinigen im bäuerlichen haushalt mit elektrizität. *Landtechnik* [Wien] 1: 333-334. Oct. 1948. 58.8 L236

21214 SLOUKA, E. Rechtsfragen bei der elektrifizierung von landgemeinden. *Landtechnik* [Wien] 1: 259-260. Sept. 1948. 58.8 L236

21215 UNGER, A. Die landwirtschaftliche elektrifizierung im künftigen elektrizitätsrecht. *Landtechnik* [Wien] 1: 304-307. Sept. 1948. 58.8 L236

21216 WICKARD, C. R. Electric service for rural North Dakota. Washington, U. S. Rural Electr. Admin., 1948. 7 p. 1.91 A2W63

21217 WIRTINGER, M. Möglichkeiten der elektrifizierung des bäuerlichen haushaltes. *Landtechnik* [Wien] 1: 285-287. Sept. 1948. 58.8 L236

21218 WYUM, O. A. Tough task is tackled in North Dakota; only 50% of farms electrified when Statewide was formed. *Rur. Electr. Mag.* 7(3): 48, 50. Dec. 1948. 335.8 N21

#### Heating, Lighting, and Radiation

21219 ALLEN, W. S., and HOBGOOD, P. Gas equipment on the farm. *Prog. Farmer, Tex. Ed.* 63(11): 110, 117. Nov. 1948. 6 T311

Heating equipment.

21220 CARRÉ, I. Le gaz de fumier. *Nature* [Paris] 3163: 346-348. Nov. 1948. 473 N21

21221 DALRYMPLE, C. A solution to the problem of heating the milk house. *Amer. Agr.* 145: 579, 586. Nov. 6, 1948. 6 Am3

Electric heaters.

21222 FABER, A. Von der wärme im bauern- und siedlerhaus. *Neue Mitt. f. die Landw.* 3: 426-427. (To be cont.) Nov. 25, 1948. 18 N39

21223 HUDSON, J. P. Soil warming and district heating. *Grower* 30: 1012-1013. Dec. 11, 1948. 286.83 M34

21224 MASSACHUSETTS. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Radiant heating. *Mass. U. Agr. Ext. Engin. Ext. Ser.* 128, 3 p. July 1948. 275.29 M381En

21225 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Car heaters and winter protection of fruit shipments; summary of transportation tests with apples from Washington State, December 1947, January and February 1948, by W. H. Redit and E. Smith. Beltsville, Md., 1948. 24 p. 1.965 F4C17

#### Power Plants, Motors and Engines on the Farm

21226 GEHARTZ. Der zündkopf, seine bedeutung und wartung. *Deut. Bauerntech.* 2(7): 15. July 1948. 58.8 D48

Type of motor.

21227 KRIEBEL, M. Biogas, eine neue energiequelle für die landwirtschaft. *Neue Mitt. f. die Landw.* 3: 290-291. Sept. 21, 1948. 18 N39

Methane gas from manure.

21228 LEIDL, E. Die explosionsmotore. Salzburg. Bauer 3(42): 3-4; (48): 3-4. (Cont.) Oct. 14, Nov. 25, 1948. 19 Sa3

21229 LEWIS, R. G. Wisconsin co-op wins fight for dam. *Pub. Power* 7(1): 8-9, 23. Jan. 1949. 335.8 P96

Dairyland Power Cooperative.

#### Water Supply

21230 GILMAN, W. We've streamlined our water supply. *Rural New-Yorker* 98: 762, 768. Dec. 18, 1948. 6 R88

Spring water in Vermont.

21231 GOULD PUMPS, INC. With the water systems an explanation for ready understanding of domestic water systems, including the theory of operation and application. *Plumbing & Heating J.* 119(12): 90, 92-94, 96-97. Dec. 1948. 291.8 P73

Farm water system.

21232 HOFF, P. R. Running water for hens in winter weather. *Amer. Agr.* 145: 592, 593. Nov. 6, 1948. 6 Am3

Electric heating cable attached to the water pipes.

21233 KREUZ, A. Der wasserhaushalt der natur. *Neue Mitt. f. die Landw.* 3: 292-293. Sept. 21, 1948. 18 N39

21234 MACMAHON, A. F. M. Clean rivers and the farmer. *Young Farmer* 16: 189-191. Nov./Dec. 1948, 10 Y8

Water pollution.

21235 MÜLLER. Wassersorgen. Land, Wald u. Garten 3: 60-61. Mar. 1948. 18 L22

21236 RUCKMAN, J. "Water, water everywhere." The experts say Texas has enough potential water resources to support industrial and agricultural expansion. This article shows the causes behind our recurrent water shortages in times of drouth. *Cattleman* 35(8): 26, 46, 48, 50. Jan. 1949. 49 C29

21237 THOMAS, S. B., and THOMAS, B. F. Some observations on the bacterial flora of farm water supplies. *Soc. Appl. Bact. Proc.* 1947(2): 65-69. Jan. 14, 1948. 448.39 S012

21238 WESTERN AUSTRALIA. DEPT. OF AGRICULTURE. Waters for agricultural purposes in Western Australia. West. Austral. Dept. Agr. Leaflet 919, 3 p. 1948. 23 W52B

#### AGRICULTURAL PRODUCTS: PROCESSING, DISTRIBUTION, AND STATISTICS

##### GENERAL

21239 BADÍA, V. Impresión acerca de las cosechas ya recogidas y las pendientes de próxima recolección. *Agr. Levantino* 14(166): 6. Sept. 1948. 15 Ag85

21240 BOMBAY (PRESIDENCY) PROVINCIAL INDUSTRIES COMMITTEE. Report, July 1945/Aug. 1947. Bombay, 1948. 99 p. 309.9 B63

Includes food and forest industries.

21241 BOMBAY (PRESIDENCY) PROVINCIAL INDUSTRIES COMMITTEE. SPECIAL SUB-COMMITTEE. Report. Bombay, Govt. Central Press, 1947. 48 p. 309 B6365

Ch. IV. Food and forest industries.

21242 CARIBBEAN COMMISSION. UNITED STATES SECT. Industrial development of Puerto Rico and the Virgin Islands of the United States, by T. Hibben and R. Picó. Port-of-Spain, 1948. 300 p. 280.14 C192

Includes agricultural products and trade.

21243 CHANNON, H. J. The world supply of fats. *Brit. J. Nutr.* 2: 176-204. 1948. 389.8 B773

21244 CRUESS, W. V. Role of new food products. *West. Canner & Packer* 40(13): 43. Dec. 1948. 286.83 W522

21245 DAVIDS, R. C. Christianity in carload lots. *Farm J.* 72(11): 28-29, 172-174. Nov. 1948. 6 F2212

Gifts of food to Europe through CROP.

21246 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Summary of FAO conference in Washington, D. C. Washington? U. S. Ext. Serv., 1948. 3 p. 1.913 F4F734



21247 FOSTER, W. A. Reviews general food outlook for the coming year. *Food Mart News* 23(12): 5. Dec. 15, 1948. 286.28 F732

21248 HERRING, H. L. Southern resources for industrial development. Richmond, Va., South. Assoc. of Sci. and Indus., 1948. 81 p. (North Carolina.-U. Inst. for South. Resources. Monog. 2) 280.002 H43S

Discusses raw materials as a basis for industry.

21249 KENT, W. H. Food supplies in 1949 [Great Britain]. *Grocer* 169(4533): 10. Dec. 11, 1948. 286.83 G895

21250 KING, C. G. Good crops favor food conditions. *Chem. & Engin. News* 27(1): 20-21. Jan. 3, 1949. 381 J825N

21251 MACEWAN, J. W. G. Feed, food, freedom. *Canad. Cattlemen* 11: 156-157, 160-161. Dec. 1948. 49 C16

21252 OXFORD UNIVERSITY. AGRICULTURAL ECONOMICS RESEARCH INSTITUTE. World hunger and purchasing-power. *Westminster Bank Rev.* 1948: 18-19. Nov. 1948. 286.8 W52

21253 RIBÉREAU, F. La faim du monde. *Colon. Franç. de Tunisie* 58(2074): 1. Nov. 20, 1948. 24 C712

21254 STEWART, J. J., and EDWARDS, A. L. Foods; production, marketing, consumption. Ed. 2. New York, Prentice-Hall, 1948. 490 p. 389 St4

21255 STRACHEY, J. S. Plans for increasing food production in the Commonwealth. *United Empire* 39: 248-251. Sept./Oct. 1948. 501 L844J

21256 TAYLOR, T. Nargus to attack many food industry problems in 1949. *Natl. Grocers B.* 35(12): 42, 99. Dec. 1948. 286.83 N214

21257 THORNTON, H. The present position regarding food inspection in England and Wales. *Vet. Rec.* 60: 595-599. Ref. Nov. 20, 1948. 41.8 V641

Discussion: Procedure and standards in the U. S. A., by H. E. Egan; Meat inspection in Denmark, by K. Seidel; General discussion, p. 599-607.

Meat inspection.

21258 UNION SUISSE DU COMMERCE ET DE L'INDUSTRIE. VORORT. Rapport sur le commerce et l'industrie de la Suisse en 1947. Zurich, 1948. 224 p. 262 Un32

Data on the fiber and textile, leather, paper, milling, livestock, dairy, chocolate, oils and fats, fruits and vegetables, and wine industries.

21259 URIBE ROMO, E. El estado de Nayarit hacia nuevos rumbos. *Rev. de Econ.* 11(11): 34-37. Nov. 15, 1948. 280.8 R3293

Agricultural products.

21260 WARNER, H. H. The downward trend in local food production and a possible solution. *Hawaiian Acad. Sci. Proc.* (1947/48) 23: 8-9. Ref. 1948. 500 H31A

21261 WELLS, O. V. The European food position and world food supplies, 1948. *Acad. Polit. Sci. Proc.* 23: 188-195. Jan. 1949. 280.9 Acl

21262 WERTH, H. Ein weg zur überwindung der deutschen ernährungskrise. *Unser Hof* 1948: 47-48. 18 Un72

21263 WINTER, F. W. The unseen hand in industrial progress. *Austral. Food Manufacture* 18(4): 22, 24. Nov. 5, 1948. 389.8 Au7

21264 ZALVIDEA R., E. La labor del SCIPA [Servicio Cooperativo Interamericano de Producción de Alimentos]. U. Nac. Mayor de San Marcos. Facul. de Cien. Econ. Rev. 39: 64-75. July 1948. 280.8 R328

21265 ZIEGELMAYER, W. Geplante forschung. *Versorgung* 3: 17-19. Sept. 1948. 280.8 V61

Food research in Germany.

#### ANALYSIS AND COMPOSITION

21266 BELTRAN, E., and BOUAS, R. Dosage des matières grasses. *Chim. Analyt.* 30: 275. Dec. 1948. 383 An72

21267 CZADEK, O. Die wertung unserer lebensmittel. *Österr. Weintztg.* 3: 386-387. Nov. 20, 1948. 390.8 Os7

21268 HARRIS, R. S., and others. The composition of Chinese foods. *Amer. Dietet. Assoc. J.* 25(1): 28-38. Ref. Jan. 1949. 389.8 Am34

F. K. C. Wang, Y. H. Wu, C. H. S. Tsao, and L. Y. S. Loe, joint authors.

21269 HÖGL, O. Dosage du zinc dans les denrées alimentaires et les objets usuels; zinkbestimmung in lebensmitteln und gebrauchsgegenständen: B. Diskussion der resultate. *Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene* 39: 382-386. Ref. 1948. 389.9 Sw6

21270 HOOGERHEIDE, J. C. The lipids of yeasts and their formation. (Abs.) *Brewers Digest* 23(11): 49. Oct. 1948. 390.8 B75

21271 JOHNSON, M. J. Enzymes in yeast. (Abs.) *Brewers Digest* 23(11): 49-50. Oct. 1948. 390.8 B75

21272 LAHOUSSE, J. Les procédés optiques de dosage des vitamines A et D. *Chim. & Indus.* 60: 443-454. Nov. 1948. 383 C42

21273 MÜLLER, P. B. Zur bestimmung der haltbarkeit von vitamin A, fetten u. ölen, sowie der wirksamkeit von antioxydantien. *Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene* 39: 275-292. Ref. 1948. 389.9 Sw6

French summary.

21274 NORTH DAKOTA. STATE LABORATORIES DEPT. Food and drug bulletin with analysis and registration of beverages, feeds, and other products. N. Dak. State Labs. Dept. B. 85, 134 p. July 1948. 389.9 N814

21275 POTTER, A. L., and HASSID, W. Z. Starch. II. Molecular weights of amyloses and amylopectins from starches of various plant origins. *Amer. Chem. Soc. J.* 70: 3774-3777. Nov. 1948. 381 Am33J

21276 POTTERAT, M. Dosage du zinc dans les denrées alimentaires et les objets usuels; zinkbestimmung in lebensmitteln und gebrauchsgegenständen: A. Examen critique du dosage du zinc dans le caoutchouc par spectrographie et par la dithizone. *Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene* 39: 372-381. 1948. 389.9 Sw6

21277 QUAIFFE, M. L., and HARRIS, P. L. Chemical assay of foods for vitamin E content. *Analyt. Chem.* 20: 1221-1224. Ref. Dec. 1948. 381 J825A

21278 RANDOIN, L. Considérations générales sur les méthodes biologiques de dosage des vitamines. *Soc. Sci. d'Hyg. Aliment. B.* 36: 95-113. Ref. 1948. 389.9 SolB

#### CONSUMPTION AND UTILIZATION

21279 CHRISTENSEN, R. P. Efficient use of food resources in the United States. U. S. D. A. Tech. B. 963, 98 p. Ref. Oct. 1948. 1 Ag84Te

21280 FRANCE. INSTITUT NATIONAL DE LA STATISTIQUE ET DES ETUDES ÉCONOMIQUES. La consommation alimentaire en Europe avant la guerre et aujourd'hui. France. Dir. de la Doc. Notes Doc. et Etudes 1024, 28 p. Nov. 24, 1948. 280.9 F843

21281 RAMAGE, W. D., and THOMPSON, J. H. The production of yeast from agricultural wastes. (Abs.) *Brewers Digest* 23(11): 49. Oct. 1948. 390.8 B75

21282 RANDOIN, L., and DUCHÈNE, G. Consommation réelle d'une famille de quatre personnes dans la région parisienne; coût mensuel de son alimentation. (Premier trimestre 1948). *Soc. Sci. d'Hyg. Aliment. B.* 36: 138-144. 1948. 389.9 SolB

21283 SCHOFFELMAYER, V. Texas chemurgic industries enjoy postwar boom. *Tex. Chemurgic News* 4(5): 1, 2. Nov. 1, 1948. 381 T29

21284 SHOLLENBERGER, J. H. Present developments and future possibilities of farm products in industry. *Natl. Assoc. Marketing Off. Proc.* (1947) 28: 23-31. 1948? 280.39 N213P

#### DISTRIBUTION, MARKETING, AND TRANSPORTATION

21285 AITKEN, M. Transport. New Zeal. Dept. Agr. B. 279: 43-48. 1947. 23 N48Bu

21286 ANDELSUDVALGET. Cooperative organizations in Denmark in the year 1947. (In Danish.) *Andelsblad* 49: 1353-1358, 1413-1420. (Cont.) Nov. 11, Nov. 25, 1948. 280.28 An2

Includes agricultural cooperative marketing organizations.

21287 ANDERS, W. Stand der erfassung. *Versorgung* 3: 19-20. Sept. 1948. 280.8 V61

Compulsory deliveries of food in the Soviet Zone.



- 21288 ASSOCIATION OF AMERICAN RAILROADS. Report of National Freight Loss and Damage Prevention Committee, 1948. Chicago, 1948. 188 p. 289.29 Am352
- 21289 BERGER, H. Marktordnung und drittes rückstellungsgesetz. Österr. Milch- u. Fettwirtschaft 3: 200-201. Sept. 1948. 44.8 Os72
- 21290 BEVAN, L. A. Marketing products from New England farms. Farm Mktg. Outlook Conf. Rpt. 2: 33-36. 1947. 280.39 F223
- 21291 BIRDSALL, W. J. Grading, labelling and quality packing for peacetime markets. Farm Mktg. Outlook Conf. Rpt. 2: 37-42. 1947. 280.39 F223
- 21292 BLACK, J. D. Guideposts in the development of a marketing program. Farm Mktg. Outlook Conf. Rpt. 2: 10-22. 1947. 280.39 F223
- 21293 BORDEN, N. H. Sales promotion in the marketing of agricultural products. Farm Mktg. Outlook Conf. Rpt. 2: 54-59. 1947. 280.39 F223
- 21294 BRANNAN, C. F. What does the "RMA" mean? Natl. Grocers B. 35(12): 38-39, 97. Dec. 1948. 286.83 N214
- Research and Marketing Act.
- 21295 CALABUIG Y CALABUIG, J. Averia. II-III. Ceres [Valladolid] 13(147): 27; (148): 17. Sept.-Oct. 1948. 15 C33
- Reparation for damages in shipments.
- 21296 COLE, F. E. The purpose and plan of the conference. Farm Mktg. Outlook Conf. Rpt. 2: 7-9. 1947. 280.39 F223
- 21297 COURTILS, A. DES. Organisation des marchés; gage d'un maximum de liberté et du partage équitable des fruits du travail dans une atmosphère de paix. Fiches Rurales (Etudes) 38, 4 p. Aug. 1948. 281.8 F44
- 21298 DELASNERIE, J. Les transports agricoles. Monit. Agr. 1(44): 4. Nov. 14, 1948. 14 M744
- 21299 DENMAN, C. B. Developing service programs under title II of the Marketing Act of 1946. Natl. Assoc. Marketing Off. Proc. (1947)28: 45-47. 1948? 280.39 N213P
- 21300 DISCUSSION—objectives under title II of the Marketing Act of 1946. Natl. Assoc. Marketing Off. Proc. (1947)28: 31-34. 1948? 280.39 N213P
- S. R. Newell, leader.
- 21301 DU PLESSIS, C. VAN H. New dispensations in the marketing of agricultural products. (In Afrikaans.) Landbouweekblad 30(1532): 37, 49. Nov. 24, 1948. 24 L232
- Union of South Africa.
- 21302 FINDLEN, P. J. The place of Government in peacetime marketing programs. Farm Mktg. Outlook Conf. Rpt. 2: 23-32. 1947. 280.39 F223
- 21303 GRAMSCH, W. Transport der versorgungsgüter. Versorgung 3: 26-28. Sept. 1948. 280.8 V61
- Russian Zone of Germany.
- 21304 HALL, H. W. Sales promotion for farmers. Nation's Agr. 24(1): 9-10, 19. Jan. 1949. 280.82 B89
- 21305 HAMMOND, A. E. Transport of quick-frozen foods. Food [London] 17: 369-371. Dec. 1948. 389.8 F738
- 21306 HOECKER, R. W. Nuevas tendencias del "mercadeo." Agrotecnia 2: 640-651. Aug./Sept. 1948. 8 Ag825
- 21307 JOHANNING. Ablieferungssystem und markt-leistung. Deut. Landw. Presse 71(3): 12. (Concl.) Aug. 21, 1948. 18 D482
- 21308 JOHNSON, H. D., and ROSE, D. H. Test of refrigerator car equipped with split-absorption system of refrigeration. Refrig. J. 2: 754, 756, 758, 760, 762. Oct. 1948. 295.8 R255
- 21309 LEE, S. M. Tour of Benton Harbor market and allied industries. Natl. Assoc. Marketing Off. Proc. (1947)28: 37-40. 1948? 280.39 N213P
- 21310 LEIDL, E. Der güterwegbau in dorfleiten. Salzburg. Bauer 3(43): 4-5. Oct. 21, 1948. 19 Sa3
- 21311 MANNING, O. O. Here's how to increase frozen food sales. Freezer's J. 3(8): 4, 10. Dec. 1948. 295.8 So8
- 21312 MASSACHUSETTS AGRICULTURAL PROGRAM BD. Marketing conference 1947; report of proceedings and recommendations. n. p., 1947? 63 p. 280.39 F223
- 21313 MIDDELBUSCHER, F. Die entwicklung des "freien marktes." Versorgung 3: 21. Sept. 1948. 280.8 V61
- Germany.
- 21314 MIDWEST EXTENSION MARKETING WORK-SHOP, IOWA STATE COLLEGE, 1948. The job of extension workers in marketing; report of the Committee. Washington? U. S. Ext. Serv., 1948. 10 p. 1.913 C3M58
- 21315 MOONE, J. I. Aggressive merchandising ideas propel the rapid growth of Snow Crop. Frozen Food Indus. 4(12): 10-11. Dec. 1948. 389.8 F93
- 21316 O'DEA, M. Adequate support is needed in much rural advertising. Rur. Mktg. 3(12): 2. Dec. 1948. 280.328 R88
- 21317 PERRON, M. Une visite au marché. Foyer Rur. [Montreal] 8(2): 7. Nov. 1948. 7 F83
- 21318 PROGRESS and present status of the Marketing Act of 1946. Natl. Assoc. Marketing Off. Proc. (1947)28: 40-44. 1948? 280.39 N213P
- E. A. Meyers, leader.
- 21319 RAE, J. H. Saskatchewan market grows. Canad. Grocer. 63(1): 48, 93. Jan. 1, 1949. 286.83 C162
- Farm products.
- 21320 ROGERS, W. Speaking about-- food brokers. Natl. Grocers B. 35(12): 60, 102. Dec. 1948. 286.83 N214
- 21321 ROHR, H. J. VON. Wozu überhaupt eine neue marktordnung? Deut. Viehhandel 3(20): 5. Oct. 31, 1948. 49 D482
- 21322 SCHENK, D. Überwachung des verkehrs mit lebensmitteln und arzneimittelgesetzgebung. Angew. Chem. 19: 160. May/June 1947. 384 C428
- 21323 SCHICKELE, R. What is happening to marketing margins? N. Dak. Agr. Expt. Sta. Bimo. B. 11: 15-16. Sept./Oct. 1948. 100 N813B
- 21324 SEAGRAVE, A. Legal responsibilities of frosted food distributors. Frosted Food Field 8(1): 6. Dec. 1948. 389.8 F922
- 21325 TALBOTT, P. Research for the baking industry. Northwest. Miller 237(1): 46, 48, 54, 56, 58. Jan. 4, 1949. 298.8 N81
- Under Research and Marketing Act of 1946.
- 21326 THOMPSON, J. I. Looking toward a better marketing system. Washington? U. S. Prod. and Mktg. Admin., 1948. 7 p. 1.956 A2T37
- 21327 TOUSSAINT, A. Les problèmes du village. I. La grande misère des chemins ruraux. Foyer Rur. 11(49): 3. Oct. 3, 1948. 14 F83
- France.
- 21328 TRIGG, R. S. The job ahead. Washington? U. S. Prod. and Mktg. Admin., 1948. 8 p. 1.956 A2T73
- Marketing service programs of the U. S. Production and Marketing Administration.
- 21329 UNERTL, F. Eherne reden, tönerner taten! Deut. Viehhandel 3(19): 3. Oct. 15, 1948. 49 D482
- Marketing of agricultural products in Bavaria.
- 21330 U. S. BUR. OF AGRICULTURAL ECONOMICS. Monthly sales of principal field crops, 1947 crop. Washington, 1948. 13 p. 1.942 G3M76
- 21331 U. S. COMMODITY EXCHANGE AUTHORITY. List of publications of the Commodity Exchange Authority. U. S. Commod. Exch. Authority CEA-107, rev., 6 p. Nov. 1, 1948. 1.9 C73C
- 21332 U. S. COMMODITY EXCHANGE AUTHORITY. Report, 1947/48. Washington, 1948. 23 p. 1 C73Rea
- 21333 U. S. EXTENSION SERV. Extension projects in marketing under the Research and Marketing Act. Washington, 1948. 31 p. 1.913 A2Ex843
- 21334 U. S. EXTENSION SERV. Plans, procedures, and progress of extension marketing work under the Research and Marketing Act, by H. M. Dixon. Washington, 1948. 4 p. 1.913 A2P695
- 21335 U. S. EXTENSION SERV. What a research marketing man thinks a home economist can contribute, by W. B. Stout. Washington, 1948. 2 p. 1.913 H4W55
- 21336 VARNEY, H. R. Extension's field in marketing. Washington, U. S. Ext. Serv., 1948. 5 p. 1.913 A2Ex844
- 21337 WENCKSTERN, H. Makler in der ernährungs-wirtschaft; mittler zwischen käufer und verkäufer—eine volkswirtschaftliche aufgabe. Ernährungsdienst 3(59): 5-6. Nov. 22, 1948. 389.8 Er62



GRADING, INSPECTION, STANDARDIZATION  
AND QUALITY

- 21333 BALAVOINE, P. Observations sur les qualités olfactives et gustatives des aliments. Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene 39: 342-350. 1948. 389.9 Sw6
- 21339 BELAM, F. A. The importance of clean food. Brit. Food J. 50: 122-123. Dec. 1948. 389.8 B77
- 21340 HUCKER, G. J. Sanitation. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 111. Dec. 1948. 389.8 F94
- 21341 MATKIN, T. D. The cleaner food campaign. Fruit, Flower & Veg. Trades' J. 94: 625. Nov. 6, 1948. 80 F946.
- 21342 OVERBECK, W. Patentschutz auf dem ernährungsgebiet. Molkerei-Ztg. 1: 187. Dec. 6, 1947. 44.8 M735
- 21343 PAILTHORP, R. R. Progress in developing consumer grades. Natl. Assoc. Marketing Off. Proc. (1947) 28: 14-18. 1948? 280.39 N213P
- 21344 SOUTHERLAND, F. L. Federal-State processed fruit and vegetable co-operative inspection agreements. Natl. Assoc. Marketing Off. Proc. (1947) 28: 18-22. 1948? 280.39 N213P
- 21345 THORNTON, H. The present position regarding food inspection in England and Wales. (Abs.) Natl. Vet. Med. Assoc. Gt. Brit. & Ireland. Ann. Rpt. & Balance Sheet 1948: 21. 41.9 V64
- 21346 TOLLENAAR, F. D. Keeping quality of food and luxury articles destined for export. (In Dutch.) T. N. O.-Nieuws 3: 309-315. Nov. 1948. 475 T11

## PACKING AND PACKAGING

- 21347 ASPECTS of packaging with particular reference to the food industry. Chem. & Indus. 1948: 778-779. Dec. 4, 1948. 382 M31C
- A symposium.
- 21348 CHASE, G. F. The West's newest packaging service. Good Packaging 9(12): 15-17. Dec. 1948. 280.38 G59
- 21349 COOK, G. G. Wrapping for locker storage. Quick Frozen Foods 2(5): 107, 120. Dec. 1948. 389.8 Q4
- 21350 CRY-O-VAC—the new skin. Frozen Food Indus. 4(12): 14-16, 22. Dec. 1948. 389.8 F93
- 21351 FABRE, R. Sur la préparation des emballages en cellophane. Acad. Natl. de Méd. B. 131: 632-633. Nov. 4/18, 1947. 448.9 P21
- 21352 FARLOW, A. C. Can a package be a salesman? Spice Mill 71(12): 61-63. Dec. 1948. 389.8 Sp4
- 21353 FORSTNER, G. E., and FULLER, C. H. F. The packaging of prepared food. (Sum.) Chem. & Indus. 1948: 779. Dec. 4, 1948. 382 M31C
- 21354 KNAUTH, A. Pannen bei der konservierung. Land u. Frau 28(3): 5. Aug. 21, 1948. 18 D482L
- 21355 LEBRETON, F. Les emballages. Fructidor (n. s.) 14(34): 2. Dec. 5, 1948. 286.83 F9423
- 21356 MCCOY, D. C., COOK, S. V., and HAYNER, G. A. Frozen food wrapping materials. Frozen Food Indus. 4(12): 4-6, 21-22. (To be cont.) Dec. 1948. 389.8 F93
- 21357 MALCOLMSON, J. D. The testing and designing of fibreboard containers. Packaging Systems 4(9): 10-12. Oct. 1948. 309.8 P126
- 21358 MODERN packaging encyclopedia, 1949. New York, 1948. 995 p. 225 P122
- Includes packaging of foods.
- 21359 OSWIN, C. R. Protective wrappings. (Sum.) Chem. & Indus. 1948: 779. Dec. 4, 1948. 382 M31C
- 21360 RIDDELL, G. L. Fundamental principles of packaging. (Sum.) Chem. & Indus. 1948: 778. Dec. 4, 1948. 382 M31C
- 21361 SANDERS, R. K. Metal containers. (Sum.) Chem. & Indus. 1948: 778-779. Dec. 4, 1948. 382 M31C
- 21362 SULLIVAN, G. H. Frozen food packaging—looking to the future. Frozen Food Indus. 4(12): 7, 20. Dec. 1948. 389.8 F93
- 21363 VAN ALLSBURG, E. J. Good packaging. Cracker Baker 37(12): 27-30. Dec. 1948. 389.8 C84

## PRICES, PRICE CONTROL, AND RATIONING

- 21364 ARMANET, D. El control de precios. Agr. Austral 14: 7305-7307. Aug. 1948. 9.3 Ag842
- Chile.
- 21365 BAULWARE, L. P. Why high prices? Kans. City Grocer 35(12): 9, 26. Dec. 1948. 286.28 K13
- 21366 BERRY, R. High when you buy. Amer. Agr. 145: 639, 642. Dec. 4, 1948. 6 Am3
- Food prices.
- 21367 BOGER, L. L. Seasonal price variations in Michigan farm products. Mich. Agr. Expt. Sta. Q. B. 31: 219-232. Nov. 1948. 100 M58S
- 21368 CANONGE, H. Peut-on résoudre le problème des prix. Défense Agr. de la Beauce et du Perche 45: 322. Dec. 1, 1948. 14 D36
- 21369 CANONGE, H. Un an d'histoire des prix. Défense Agr. de la Beauce et du Perche 45: 305-306. Nov. 10, 1948. 14 D36
- 21370 CHAPRON, C. La réforme fiscale et les prix agricoles. Unité Paysanne 3(161): 1, 4. Dec. 4, 1948. 14 Un3
- France.
- 21371 COMBREDT, G. Les prix agricoles et la vie chère. Monit. Agr. 1(40): 11. Oct. 17, 1948. 14 M77
- France.
- 21372 DÉ TRUDE, L. D., and NISHIMURA, W. Feeding the family: 1914 and 1948. Natl. Indus. Conf. Bd. Personnel Mangt. Rec. 9: 576-578. Dec. 1948. 283.9 N212Co
- Food prices.
- 21373 GRAF, W. Erfahrungen aus den berichten der kartenstellen-prüfungen. Versorgung 3: 25-26. Sept. 1948. 280.8 V61
- Russian Zone of Germany.
- 21374 GRANDPRE, P. L'organisation des marchés agricoles; la baisse des prix agricoles peut devenir rapidement inquiétante. Unité Paysanne 3(158): 2. Nov. 13, 1948. 14 Un3
- 21375 JOHNSON, D. G. Objectives of storage policies. Farm Policy Forum 1(3): 14-17. July 1948. 281.8 F2274
- As a price control measure.
- 21376 KALLBRUNNER, H. Neue preise-- neues planen [Austria]. Pflug 1: 139-140. Sept. 1948. 19 P48
- 21377 KREUZER, Preisüberwachung. Ernährungsdienst 3(60): 2. Nov. 25, 1948. 389.8 Er62
- Germany.
- 21378 NAGY, N. Tension entre producteurs et consommateurs. Fiches Rur. 40, Etudes, 6 p. (Cont.) Oct. 1948. 281.8 F44
- Prices in France.
- 21379 RIES, L. W. Neuordnung der agrarpreise [Germany]. Deut. Landw. Presse 71(3): 1. Aug. 21, 1948. 18 D482
- 21380 SCHAAAL, A. So kann es nicht weitergehen. Württemb. Wchnbl. f. Landw. 115: 270. Oct. 2, 1948. 18 W96
- Prices.
- 21381 SCHULTZ, T. W. Agricultural price policy. Acad. Polit. Sci. Proc. 23: 108-117. Jan. 1949. 280.9 Ac1
- 21382 SHOULD the Government continue to support farm prices? Northwest. Banker 53(735): 17, 48-50. Oct. 1948. 284.8 N81
- 21383 STREICHER, E. Vor neuen aufgaben. Württemberg. Wchnbl. f. Landw. 115: 293-294. Oct. 23, 1948. 18 W96
- Price control.
- 21384 U. S. BUR. OF AGRICULTURAL ECONOMICS. Season average prices and value of production, principal crops, 1946 and 1947, by States. Washington, 1947. 31 p. 1.941 F8Se1
- 21385 U. S. COUNCIL OF ECONOMIC ADVISORS. The annual economic report. U. S. News 26(2): 68-95. Jan. 14, 1949. 280.8 Un33A
- Discusses farm price supports and agricultural policy.

## PROCESSING AND STORAGE

- 21386 ATKIN, L. Basic principles of culturing and production. (Abs.) Brewers Digest 23(11): 47-48. Oct. 1948. 390.8 B75



- 21387 AUBURN, W. J. Strapping for safety. Canning Trade 71(23): 6-7. Dec. 27, 1948. 286.83 T67  
Canned food.
- 21388 AUFFINGER, C. Brazil needs hand operated machines. West. Canner & Packer 40(13): 49. Dec. 1948. 286.83 W522
- 21389 BAMBERGER, J. Où en est la congélation ultra-rapide en France? Marseille. Inst. Colon. Cahiers Colon. (n. s.) 10: 325-327. Oct. 1948. 286.8 M35
- 21390 BOLLMAN, M. C., and others. Application of electronic cooking to large-scale feeding. Amer. Dietet. Assoc. J. 24: 1041-1048. Ref. Dec. 1948. 389.8 Am34  
S. Brenner, L. E. Gordon, and M. E. Lambert, joint authors.
- 21391 BURRILL, P. D. No compromise on efficiency in warehouse operations. Quick Frozen Foods 2(5): 68-69. Dec. 1948. 389.8 Q4
- 21392 CERLETTI, G. B. Current biological discoveries in the agricultural industries. (In Italian.) Humus 4(9): 24. Sept. 1948. 16 H88  
Processing research.
- 21393 ERROLL, F. J. Electronic preservation of foods. Food Manufacture 23: 549-550. Dec. 1, 1948. 389.8 F736
- 21394 FAVRE, M. Le froid à la ferme. Vacluse Agr. 4(79): 1-2. Nov. 15, 1948. 14 V26  
Refrigeration.
- 21395 GARIBALDI, J. A., and FEENEY, R. E. Semi-pilot plant production of subtilin. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 119. Dec. 1948. 389.8 F94.
- 21396 HARRIS, E. E. Food-yeast production from wood-processing by-products. (Abs.) Brewers Digest 23(11): 49. Oct. 1948. 390.8 B75
- 21397 HARTSHORN, L. Experiments in radio-frequency heating. Brit. Sci. News 1(12): 12-15. 1948. 472 B77  
Includes food processing.
- 21398 HEGARTY, W. L. Recovery and preparation for use. (Abs.) Brewers Digest 23(11): 48. Oct. 1948. 390.8 B75  
Brewers yeast.
- 21399 HOWE, P. E. Food storage and preservation in the tropics. Internatl. Cong. Trop. Med. and Malaria. Abs. 4: 94. 1948. 150.1 C766
- 21400 JAKOVLIV, G. Nouvelles méthodes de conservation des denrées périssables. Indus. Agr. et Aliment. 65: 229-236. July/Sept. 1948. 383 As7  
Summary in German, English, Spanish, and Italian.
- 21401 JOSLYN, M. A. Relation of basic investigations to the production and utilization of yeast. (Abs.) Brewers Digest 23(11): 47. Oct. 1948. 390.8 B75
- 21402 KEIPPER, C. H. Commercial production practices. (Abs.) Brewers Digest 23(11): 48. Oct. 1948. 390.8 B75  
Yeasts.
- 21403 LOVELAND, A. J. Growers and canners are partners. Amer. Grocer 160(24): 3-9. Dec. 15, 1948. 286.83 Am32  
Contracts.  
Also in Canner 107(25): 16, 30, 32. Dec. 18, 1948. 286.8 C16
- 21404 LUH, B. S., and PHAFF, H. J. Pectin breakdown by yeasts. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 118. Dec. 1948. 389.8 F94
- 21405 LYNCH, L. J. Canning research at Homebush. Food Preserv. Q. 8(2): 19-22. June 1948. 389.9 Au7F
- 21406 MAIZEL, B. L. Production and some characteristics of brewers' yeast extracts. (Abs.) Brewers Digest 23(11): 48. Oct. 1948. 390.8 B75
- 21407 MALCORPS, G. Détermination des pertes de charges créées par des débits d'air variables, traversant des masses de produits d'épaisseur variable. Contribution à l'étude du séchage des produits agricoles. Agriculture [Louvain] 46(3): 1-23. Aug. 1948. 13 R32
- 21408 MARTIN, L. S. Progress in the frozen food industry. Canner 107(26): 14, 16. Dec. 25, 1948. 286.83 C16
- 21409 MASSACHUSETTS. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Chest type freezers. Mass. U. Agr. Ext. Engin. Ext. Ser. 129, 1 p. Oct. 1948. 275.29 M381En
- 21410 MEISENBACH, R. Soaring home freezer sales insure brilliant future for locker plants. West. Locker 9(12): 11. Oct. 1948. 389.8 P112
- 21411 MITCHELL, T. Refrigerating system which warms and cools simultaneously. (In Portuguese.) Fazenda 43(10): 35, 74. Oct. 1948. 6 H11P
- 21412 NATIONAL CANNERS ASSOCIATION. Canners directory, 1948. Washington, 1948. 235 p. 389.9 N214
- 21413 NORTON, C. What are possibilities for expansion in the frozen food industry in the East and West. Frozen Food Indus. 4(12): 8-9, 25, 28. Dec. 1948. 389.8 F93
- 21414 PEDERSON, C. S. Investigations in preservation of food by fermentation. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 109. Dec. 1948. 389.8 F94
- 21415 PRATT, R., and others. Vitamin K<sub>5</sub>, as a potential fungistatic agent and food preservative. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 119. Dec. 1948. 389.8 F94  
P. P. T. Sah, J. Dufrenoy, and V. L. Pickering, joint authors.
- 21416 SALTON, M. R. J. The use of surface active cations in detergency and sterilisation. Refrig. J. 2: 772, 774, 776. Oct. 1948. 295.8 R255
- 21417 SMITH, E. E. The use of sodium benzoate in preserving food products. In Amer. Bottlers of Carbonated Beverages. Beverage Prod. and Plant Oper. Washington, 1948. 5 p. 389.6 M33B
- 21418 SÖLDNER, O. Wohin mit der kaltemaschine? Süddeut. Molkerei-Ztg. 69: 497. Nov. 18, 1948. 44.8 Su2
- 21419 TAVERNETTI, J. R. Construction of farm refrigerators & freezers. Calif. Agr. Expt. Sta. C. 387, 19 p. Sept. 1948. 100 C12S
- 21420 THOMPSON, P. C. O. The pressures developed in containers during heat processing. Food Preserv. Q. 8(2): 23-26. June 1948. 389.9 Au7F
- 21421 TRULLINGER, J. D. Frozen food fair is latest achievement of big Modesto plant. West. Locker 9(12): 4-6. Oct. 1948. 389.8 P112
- 21422 TURNER, A. W. Importance of newly developed methods to process and store farm crops. Farm Electrification 2(6): 16-21. Nov./Dec. 1948. 335.8 F224
- 21423 TUSTIN, E. B., JR. The sales importance of proper salting. Canning Trade 71(24): 42. Jan. 3, 1949. 286.83 T67
- 21424 U. S. RURAL ELECTRIFICATION ADMIN. What to expect from a farm freezer. Washington? 1948. 7 p. 1.933 W553
- 21425 UOTA, M., and SMOCK, R. M. Odor removal studies in refrigerated storage. Refrig. J. 2: 692, 694, 696, 698. Sept. 1948. 295.8 R255
- 21426 VIRTANEN, A. L. Die bedeutung der wasserstoffionenkonzentration bei der konservierung von nahrungsmitteln und viehfutter. Milchwissenschaft 3: 353-361. Ref. Dec. 1948. 44.8 M5933  
Summary in English, French, and Russian.
- 21427 WALTER, L. Automatic control in food processing. II. Food Manufacture 23: 563-565. Dec. 1, 1948. 389.9 F736
- 21428 WESTERHOLM, H. A. Cold store design and operation. 1-2. Refrig. J. 2: 728-732, 740, 742, 744, 746, 748, 750, 752. Sept.-Oct. 1948. 295.8 R255
- 21429 YOURGA, F. J. Processing foods in glass. Glass Packer 27(12): 950-953. Dec. 1948. 309.8 G463

## STATISTICS

- 21430 CANADA. BUREAU OF STATISTICS. Survey of production in Canada 1938 to 1946; agriculture, forestry, fisheries, trapping, mining, electric power, construction, custom and repair, manufactures. Ottawa, 1948. 44 p. 253 C332S
- 21431 COLOMBIA. DIRECCIÓN GENERAL DE ESTADÍSTICA. Antioquia; estudio geográfico, económico y social, by R. Aguirre Agudelo. Bogotá, Minerva, 1948. 147 p. 255.5 C712An  
Includes agricultural statistics.
- 21432 CURTIS PUBLISHING COMPANY. Country gentleman's 1947 farm market data book. Philadelphia, 1947. 40 p. 280.32 C94F  
Country statistics for income, farms having types of equipment, farm values, and value of farm products.
- 21433 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Agricultural statistics, 1945: United Kingdom, pt. 1, with separate figures for England and Wales, Scotland, Great Britain and Northern Ireland. London, 1948. 31 p. 256.01 Ag82Ag  
Department of Agriculture for Scotland and Ministry of Agriculture, Northern Ireland, cooperating.



21434 INTERNATIONAL INSTITUTE OF AGRICULTURE. Les grands produits agricoles; compendium international de statistiques, 1924-1938. Rome, Failli, 1948. 695 p. 251 In8Ga

21435 KÖHNLEIN. Ertragshöhe und ertragstreue der kulturpflanzen als ausgangspunkt für die bewirtschaftung der schleswig-holsteinischen geestbetriebe. Beitr. Agrarwiss. 1: 37-59. n. d. 18 B392

21436 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Agricultural statistics. North. Ireland. Min. Agr. Rpt. 23: 167-169. Oct. 1948. 256.13 Ag82M

21437 PRONI, G. Some aspects of the variability of crop production in Italian agriculture. (In Italian.) Riv. di Econ. Agr. 3: 334-357. 1948. 281.8 R52  
English summary, p. 357.

21438 QUEBEC. BUREAU DES STATISTIQUES. Estimation de la valeur brute des productions agricoles, Province de Québec, 1940-1946. Québec, 1948? 7 p. 253.8 St2E

21439 UNION OF SOUTH AFRICA. OFFICE OF CENSUS AND STATISTICS. The territory of south west Africa; chapter XXVII. Pretoria, 1947. 68 p. 270 C3320

Preprint from the Official Year Book of the Union of South Africa, No. 23-1946.

Includes statistics for agriculture.

21440 U. S. BUR. OF AGRICULTURAL ECONOMICS. Minnesota agricultural statistics, 1946-1947. St. Paul, 1948? 46 p. 1 Ec7M

21441 U. S. BUR. OF AGRICULTURAL ECONOMICS. 1948 annual summary, commercial truck crops for fresh market; acreage, production and value by seasonal groups and States, with comparisons. Washington, 1948. 48 p. 1.941 H8V525

21442 WESTERN AUSTRALIA. STATISTICIAN. Pocket year book of Western Australia (thirtieth issue), 1948. Perth, 1948. 192 p. 271.7 R26A  
Agricultural statistics included.

21443 WESTERN AUSTRALIA. STATISTICIAN. Statistical register of Western Australia for 1944-45. Perth, 1948. various paging. 271.7 R26S

Includes agricultural statistics.

#### BEVERAGES AND CONDIMENTS

21444 ABICH. Brauware aus dumpfliger, keimfähiger gerste. Land, Wald u. Garten 3: 7-8. Jan. 1948. 18 L22

21445 AKERMAN, L. Brand-new market—public feeding—has opened for tea. Spice Mill 71(12): 53, 55. Dec. 1948. 389.8 Sp4

21446 ALLUÉ, A. Vendimia en enjuto y cogerás vino puro. Ceres [Valladolid] 12(148): 9-10. Oct. 1, 1948. 15 C33

21447 ANSEL, H. R. Modern processing of spices. Canner 107(25): 26, 28. Dec. 18, 1948. 286.8 C16

21448 ARNOULD, G. Les bonnes eaux-de-vie de fruits. Acclimatation 75: 211. Oct. 2, 1948. 14 Ac2

21449 AUDIBERT, M. Une méthode de vinification des vins d'hybrides. Réveil Agr. 57: 291-292. Oct. 1, 1948. 14 R322

21450 BECK, J. P. Un point délicat, le degré du vin. Vie Agr. 3(95): 11. Sept. 11/18, 1947. 14 V673

21451 BELLSTEDT, F. Chemicals in the modern wine industry. (In Afrikaans.) Wynboer 17(205): 28, 30. Oct. 1948. 290.8 W724

21452 BONIS, A., and MOROY. Le vieillissement artificiel des eaux-de-vie. Ann. des Falsif. 41: 380-383. July/Sept. 1948. 389.8 An72

21453 BRAJNKOFF, L., and CRUESS, W. V. Effect of plastering on the pH and potassium sulfate content of wine. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 117. Dec. 1948. 389.8 F94

21454 BREJOUX, M., and BLAQUIÈRE, J. Précis de législation des appellations d'origine des vins et eaux-de-vie. Voix des Colons 30(1481): 5. Dec. 6, 1948. 24 V85

21455 BREMOND, E. La règle Halphen et les vins d'Algérie. Voix des Colons 30(1469): 3. Sept. 13, 1948. 24 V85

21456 BUCCI, F. The iodine number of wine vinegars. (In Italian.) Ist. Super. di Sanit. Rend. 11: 743-754. 1948. 449.9 R66

French, English, and German summaries.

21457 BURNS, J. A. The brewing of top fermentation beers. III. Yeast management and beer conditioning. Brewers Digest 23(12): 46-49. Dec. 1948. 390.8 B75

21458 CASTELLI, T. Research on wine fermentation yeasts in Apulia. (In Italian.) Risveglio Agr. 7: 318-320. Sept. 15/30, 1948. 16 R49

21459 CHALLINOR, S. W., and BURROUGHS, L. F. The chemistry of cider. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 172-191. Ref. 84.B77

21460 CHAPPAZ, G. Soins aux vins de cette année. Réveil Agr. 57: 339. Nov. 15, 1948. 14 R322

21461 CHEESMAN, E. E. Report on potentialities for the cultivation of cocoa in Malaya, Sarawak, and North Borneo. Malayan Agr. J. 31: 222-246. (Abs.) Oct. 1948. 22.5 F312

21462 CHOTARD, J. Viticulture: l'amélioration des pressoirs. Réveil Agr. 57: 292. Oct. 1, 1948. 14 R322

21463 CHOussy, F. Influencia de varios factores sobre la fermentación diastásica y microbiana de las pilas de café. Agrotecnia 2: 603-611. Aug./Sept. 1948. 8 Ag825

21464 CIFERRI, R. Una explicación biológica de la práctica del "pintado" del cacao. Agro 3(1/2): 37-40. Jan./Apr. 1948. 9.95 Ag83

21465 CIFERRI, R. Perspectivas de la producción cacaotera dominicana. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 39(179): 24-27. July/Aug. 1948. 8 R323

21466 CLARK, W. M. Some factors affecting growth and the nitrogen structure of a pure culture Saccharomyces cerevisiae. Amer. Brewer 81: 25-29, 62-63. Ref. Dec. 1948. 390.8 Am3

21467 COMPAÑIA SALVADOREÑA DE CAFÉ. Memoria de la Compañía Salvadoreña de Café. Co. Salvador de Café. Mem. 6, 32 p. Oct. 1947/Sept. 1948. 68.29 C73M

21468 CORREIA, D. Presence of trigonellina in yerba maté. (In Portuguese.) Arq. de Biol. e Technol. 2: 265-290. Ref. 1947. 475 Ar62  
English summary.

21469 COTTEN, H. Canadians to accent promotion. Spice Mill 71(12): 17, 60. Dec. 1948. 389.8 Sp4  
Tea and coffee.

21470 CRUESS, W. V. Investigations of the flor sherry process. Calif. Agr. Expt. Sta. B. 710, 40. Ref. Oct. 1948. 100 C12S

21471 CZADEK. Nochmals blauschönung. Österr. Weinztg. 3: 383. Nov. 20, 1948. 390.8 Os7

21472 DALMASSO, G. Établissement d'un registre ampélographique international [Italy]. Off. Internatl. du Vin. B. 21(212): 10-19. Oct. 1948. 390.8 B87

21473 DAUPHIN, E. I. Wine and man. Wynboer 17(205): 25. Oct. 1948. 290.8 W724

21474 DOUARCH, L. Die aussichten auf die weinproduktion 1948. Österr. Weinztg. 3: 345-346. Oct. 16, 1948. 390.8 Os7

21475 DUQUE, J. P. El café en la economía dominicana. Dominican Repub. Comn. de Defensa del Café y del Cacao B. Inform. 5(37), 10 p. Sept. 1948. 286.3689 D71

21476 ENGEL, F. Fehlerhafte weine. Pflug 1: 171. Oct. 1948. 19 P48

21477 FÁBREGUES SOLER, J. M. DE, and MESTRES JANE, A. Métodos analíticos para el ácido tártrico de los vinos y residuos de los mismos, y ensayos realizados con un procedimiento conductométrico. Spain. Inst. Nac. de Invest. Agron. B. 18: 189-239. Ref. June 1948. 105.6 Sp14

English, French, and German summaries.

21478 FERRARI, G. Italian wine panorama. (In Italian.) Com. Vinic. 20(40): 1. Oct. 16, 1948. 390.8 C732

21479 FINK, H. Die brauerei als glied in der ernährungs- und futterwirtschaft. Brauwelt 1948: 1-4, 157-160. Jan. 8, Apr. 29, 1948. 390.8 B732  
Germany.

21480 FIRST ANNUAL directory of American wine wholesalers. Wine Rev. 16(12): 17-61. Dec. 1948. 390.8 W722

21481 FONTANELLI, G. Ferrocyanide of potassium as clarifier of wine subject to "casse ferrica." (In Italian.) Pisa. U. Facol. di Agr. Ann. (n. s.): 8: 108-117. Nov. 10, 1948. 105.4 P672



- 21482 FORTEZA, B. Vinificación de vendimias averiadas. Balearic Isl. Diputación Prov. B. de Agr. 48: 9. Sept. 1948. 15 B19
- 21483 FOUILLAND, G. Quel est le prix rentable du vin à la production? Bouches du Rhone Agr. 21(987): 13. Oct. 1, 1948. 14 B662
- 21484 GARCIA GUIJARRO, L. El vino de jerez o "sherry". Agr. Levantino 14(167): 7-9. Oct. 1948. 15 Ag85
- 21485 GARINO-CANINA. Activators and inhibitors in fermentation. (In Italian.) Com. Vinic. 20(42): 1. Oct. 30, 1948. 390.8 C732
- Wine.
- 21486 GEBHARDT, G. Zum problem der einheits-bierflasche. II. Brauwelt 1948(6): 109-111. Mar. 18, 1948. 390.8 B732
- 21487 GIL MONTERO, J. Posibilidad y dificultad de un café sintético. Ion 8: 601-603, 590. Sept. 1948. 385 Io6
- 21488 HUSER, S. Les vins de Saint-Peray. Études Rhodaniennes 23: 105-120. 1948. 473 Et8
- 21489 HUXLEY, G. World tea supplies will catch up to demand by 1950. Spice Mill 71(12): 53, 55. Dec. 1948. 389.8 Sp4
- 21490 INIGO, M. La conservación del vino en vera-no: Vinos, Vinas y Frutas 44: 181-182. Oct. 1948. 9 Ag89
- 21491 ISHLER, N. H., FINUCANE, T. P., and BORKER, E. Rapid spectrophotometric determination of caffeine. Analyt. Chem. 20: 1162-1166. Ref. Dec. 1948. 381 J825A
- 21492 JEANSON, P. Élaboration des vins rosés. Monit. Agr. 1(45): 7. Nov. 21, 1948. 14 M744
- 21493 JEANSON, P. Suivez l'élaboration des vins blancs. Monit. Agr. 1(44): 7. Nov. 14, 1948. 14 M744
- 21494 JEANSON, P. La vinification des vendanges altérées. Monit. Agr. 1(46): 7. Nov. 28, 1948. 14 M744
- 21495 KIELHÖFER, E. Die wärmetrübung der 1947er weine. Österr. Weintzg. 3: 390-392. Nov. 27, 1948. 390.8 Os7
- 21496 KIELHOFER, E. Zur frage der entmischung einer schwefligen säurelösung. Österr. Weintzg. 3: 333-334. Oct. 9, 1948. 390.8 Os7
- 21497 KRIEGLMEYER, J. Die auslese einer gärkräftigen kernhefe, die rückkühlung der gärenden würze und die wirtschaftliche gestaltung der hauptgärung. Brauwelt 18: 372-373. Sept. 2, 1948. 290.8 B732
- 21498 KRIEGLMEYER, J. Die gärung des bieres, die kontrolle der gärung mit hilfe der Holzner-tabellen, die kohlen säureverluste bei der hauptgärung, nachgärung und beim ausschank des bieres und deren vermeidung. Brauwelt 1947: 477-499, 501-504. (Concl.) Dec. 4, 18, 1947. 390.8 B732
- 21499 LARUE, P. Le vin fermenté sous pression. Prog. Agr. et Vitic. 1948: 267-268. Nov. 7/14, 1948. 14 P94
- 21500 LEIPOLDT, W. C. L. Our wine is our joy. (In Afrikaans.) Wynboer 17(205): 24. Oct. 1948. 390.8 W724
- Union of South Africa.
- 21501 LE ROUX, J. B., and LE ROUX, P. Future possibilities of the South African wine industry. (In Afrikaans.) Wynboer 17(205): 14, 16-19; (206): 17-19. Oct.-Nov. 1948. 390.8 W724
- 21502 LESSER, M. A. Glycerine in vanilla flavors. Spice Mill 71(12): 67. Dec. 1948. 389.8 Sp4
- Third part of a survey.
- 21503 LIBUTTI, D. Measures to assure the preservation of wine. (In Italian.) Ital. Vinic. ed Agr. 38: 135-137. June 30, 1948. 95.8 It1
- 21504 LIEDERMANN, E. Wo kaufe ich ein? Ein führer durch Österreichs weinbaugebiete. Österr. Weintzg. 3: 334-335, 385, 393, 400, 408-409. (Cont.) Oct. 9, Nov. 20-Dec. 11, 1948. 390.8 Os7
- 21505 LIPPS, J. D., and others. Properties of limit dextrinase,  $\alpha$ -amylase, and maltase separated from submerged cultures of *A. niger*. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 118. Dec. 1948. 389.8 F94
- D. K. Roy, A. A. Andreassen, P. Kolachov, and C. C. Vernon, joint authors.
- 21506 LOUSTALOT, A. J., and CERNUDA, C. Experimentos de la vainilla en Puerto Rico. Hacienda 43 (12): 50-51. Dec. 1948. 6 H11
- 21507 LUTHER, M. Die kellereimaschinen-versorgung in der Bizone. Brauwelt 1948(12): 233-235. June 10, 1948. 390.8 B732
- 21508 MADRAS PRESIDENCY. BOARD OF REVENUE. Statistics—ginger—1947—final report. Madras, 1948. 1 p. 68.9 M26
- 21509 MALAGOLI, C. Advice to the vintner. III. (In Italian.) Agr. Bresciana 1(39): 3. Sept. 29, 1948. 16 Ag89
- 21510 MARESCALCHI, A. Advice of a great wine technician: metabisulfite of sodium. (In Italian.) Terra [Firenze] 59(41): 3. Oct. 10, 1948. 16 T274
- 21511 MEINKE, E. Badischer weinbau in gegenwart und zukunft. Saat u. Ernte 2(12): 2-3. (Cont.) Dec. 1947. 18 Sa12
- 21512 MEJIA, M. Coffee Federation plays key part in Colombia's economy. Spice Mill 71(12): 41-42. Dec. 1948. 389.8 Sp4
- 21513 MERZ, J. J. Die weinwirtschaftsverhältnisse in England. Österr. Weintzg. 3: 341-342. Oct. 16, 1948. 390.8 Os7
- 21514 MICHEL, L. Coffee in Ruanda-Urundi. Spice Mill 71(12): 36-38. Dec. 1948. 389.8 Sp4
- 21515 MICHEL, V. La production vinicole. Colon. Franç. de Tunisie 58(2074): 1. Nov. 20, 1948. 24 C712
- 21516 MONOSODIUM glutamate: manufacture, properties, history. Canning Trade 71(23): 8. Dec. 27, 1948. 286.83 T67
- 21517 MONZÓ COLL, A. De vitivinicultura: táctica equivocada. Agr. Levantino 14(166): 12. Sept. 1948. 15 Ag85
- Spanish wine industry.
- 21518 NIEHAUS, C. J. G. The flavor constituents of wine. (In Afrikaans.) Wynboer 17(205): 26. Oct. 1948. 390.8 W724
- 21519 NORTON, B. J. What the wine wholesaler expects from the winery in merchandising and advertising aids. Wine Rev. 16(12): 12-13. Dec. 1948. 390.8 W722
- 21520 PEYNAUD, E. Dosage du glycérol dans les vins par oxydation periodique. Ann. des Falsif. 41: 384-402. July/Sept. 1948. 389.8 An72
- 21521 RATZ, A. Ruster weinlesefest mit weinkost 1948. Österr. Weintzg. 3: 393-394. Nov. 27, 1948. 390.8 Os7
- 21522 RIVEROS, J. E. Cooperativismo: el problema vitivinícola de la Provincia de San Juan. Vinos, Vinas y Frutas 44: 187-189, 191. Oct. 1948. 9 Ag89
- 21523 ROELOFSEN, P. A., and GIESBERGER, G. Investigations on the curing of cacao. (In Dutch.) Arch. v. Koffiecult. Nederland.-Indië 16: 1-159. Oct. 1947. 68.28 Ar2
- English summary.
- 21524 ST. JOHNSTON, J. H. The separation of the protein constituents of wort. Inst. Brewing. J. 54: 305-320. Nov./Dec. 1948. 390.9 In7
- 21525 SANCHE DE SOPRANIS, F. Las viñas y los vinos de Jerez. Siembra 1948(8/9): 4-5. Aug./Sept. 1948. 15 Si1
- 21526 SCHANDERL, H. Why must wine be treated with sulfur dioxide? (In Afrikaans.) Wynboer 17(206): 20-22. Nov. 1948. 390.8 W724
- 21527 SLATER, L. E. Electronics—a new method for coffee roasting control. Spice Mill 71(12): 14-15, 45. Dec. 1948. 389.8 Sp4
- 21528 SPOON, W. Revolution in tea manufacture. (In Dutch.) Voeding 9: 178-183. Oct. 15, 1948. 389.8 V85
- English summary.
- 21529 STIEGLER, C. Wiederaufbau der rohstoffgrundlagen des bayerischen braugewerbes. Brauwelt 1948: 195-188. May 13, 1948. 390.8 B732
- 21530 TANNER, H. Wines of Switzerland. Swiss Indus. & Trade 27(3): 5-6. 1948. 280.8 Sw6
- 21531 TELEKI, A. Rückgang der weinpreise in Ungarn. Österr. Weintzg. 3: 410. Dec. 11, 1948. 390.8 Os7
- 21532 TELEKI, A. Sturz der weinpreise in der Schweiz. Österr. Weintzg. 3: 409-410. Dec. 11, 1948. 390.8 Os7
- 21533 TREUMUND, W. Biologische konservierung von lebensmitteln, insbesondere von wein. Österr. Weintzg. 3: 389-390. (Cont.) Nov. 27, 1948. 390.8 Os7
- 21534 TSAO, S. K. Peppermint industry of China. China Trade Monthly 2: 687-689. Aug. 1948. 286.8 C44
- 21535 URIBE ESCOBAR, G. Aguardiente barato. U. de Antioquia 22: 533-541. Sept./Oct. 1948. 110 Un3



21536 VIDAL, H. Pratiquons une vinification rationnelle. *Terre* 205: 1, 3. Sept. 16/22, 1948. 281.8 T27

21537 WANNER, E., and GEISS, W. Dritter bericht über ein neues verfahren der vergärung von most zu wein oder schaumwein. *Osterr. Weintztg.* 3: 397-398. Dec. 4, 1948. 390.8 Os7

21538 WANNER, E., and GEISS, W. Zweiter bericht über die vergärung von most oder schaumwein in drucktanks. *Osterr. Weintztg.* 3: 317. Sept. 25, 1948. 390.8 Os7

21539 WEBER, F. Karl II. und der weinbau und der weinhandel in der Steiermark. *Osterr. Weintztg.* 3: 336-337. Oct. 9, 1948. 390.8 Os7

21540 WHITE, M. T. Europe's alcoholic worries. *United Nations World* 3(1): 46-47. Jan. 1949. 280.8 Un384

Wine and liquor industry.

21541 WINE INSTITUTE. Twelfth annual wine industry statistical survey, III. *Wine Inst. B.* 405, 23 p. Dec. 17, 1948. 390.9 W72

21542 WYLER, O., and HÖGL, O. Zur analyse von kaffee, kaffee-extrakten und kaffee-surrogaten. I. Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene 39: 351-371. Ref. 1948. 389.9 Sw6

French summary.

21543 WYLIE, K. H. Production, consumption and price trends of coffee. U. S. Off. Foreign Agr. Relat. *Foreign Agr. Rpt.* 33, 27 p. Dec. 1948. 1.943 F763

21544 YANG, H., and WIEGAND, E. H. Possibilities of secondary fermentation in light sweet wines. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 117. Dec. 1948. 389.8 F94

#### DAIRY PRODUCTS

21545 ALLEN, W. H. New Jersey dairymen view 1949 as critical year. *Dairymen's League News* 32(26): 8. Dec. 28, 1948. 44.8 D1432

21546 ANDERSSON, U. Milk plant fusion at the Polar Circle. (In Swedish.) *SL-kontakt* 1948: 160-164. 11 Sv28S

Dairy industry in Norrbotten Province.

21547 ARNAUDI, C. Experimentation and technical and professional instruction in the dairy industry [Italy]. (In Italian.) *Latte* 22(11): 5-8. Nov. 1948. 44.8 L35

21548 BLEISE, C. Die milchwirtschaft in Schleswig-Holstein und ihre absatzmöglichkeiten. *Süddeut. Molkerei-Ztg.* 69: 355-356. Oct. 7, 1948. 44.8 Su2

21549 BOYSEN, H. H. Die milchversorgung von Kiel. *Süddeut. Molkerei-Ztg.* 69: 356-358. Oct. 7, 1948. 44.8 Su2

21550 BROSSIER, R. L'approvisionnement en lait de la région parisienne. *Québec Lait.* 7(10): 46, 48. Oct. 1948. 44.8 Q3

21551 BRYANT, C. B. A. Tribute to "the fieldman." *Calif. Dairymen* 28(23): 46-48, 50-51. Dec. 18, 1948. 44.8 C12

21552 THE BUYER'S guide to the dairy & ice cream industries, 1st, 1948. London, 1948. 292 p. 225 B982

21553 CALBERT, H. E. Assistance for the Swiss cheese industry. *Cheese Trier* 9(5): 4. Nov. 1948. 44.8 C412

21554 CAPSTICK, E. The World's Dairy Congress, Stockholm, August, 1949. *Soc. Dairy Technol. J.* 2(1): 50-51. Oct. 1948. 44.8 So12

Program.

21555 CHAPIN, L. A. High costs, less income. *Dairymen's League News* 32(26): 3. Dec. 28, 1948. 44.8 D1432

21556 CONNECTICUT WHOLESALE MILK PRODUCERS COUNCIL. Annual report... for the year 1948. Brookfield Center, 1948. 7 p. 281.3449 C762

21557 CROSSLEY, E. L. Present trends in dairy education. *Soc. Dairy Technol. J.* 2(1): 14-19. Oct. 1948. 44.8 So12

Discussion, p. 20-21.

21558 CURSCHELLAS, M. Die bündnerische milchwirtschaft im dienste der volksernährung. *Schweiz. Zentbl. f. Milchw.* 37: 215-216. Oct. 8, 1948. 44.8 Sch93

21559 DAVIDSON, E. J. Butter—backbone of the dairy industry. *Natl. Butter & Cheese J.* 40(1): 31. Jan. 1949. 286.85 B98Bu

21560 DE GUERIN, B. C. Dairying in Guernsey. *Dairymen* 65: 565-567. Dec. 1948. 44.8 D1426

21561 DENMARK. STATENS FORSØGSMEJERI. Statens Forsøgsmejeri, 1923-1948 [The State Experimental Dairy, 1923-1948]. København, Hillerød, 1948. 2 v. 44.9 D414S

21562 DUGGAN, I. W. Greater production urged. *Dairymen's League News* 32(26): 3, 20. Dec. 28, 1948. 44.8 D1432

21563 DU MOND, C. C. Outlook for next year good for "efficient" dairyman. *Dairymen's League News* 32(26): 1, 5. Dec. 28, 1948. 44.8 D1432

21564 GENIN, G. L'industrie laitière dans le monde. *Lait* 28: 400-407. July/Aug. 1948. 44.8 L143

21565 GRANT, H. B. The way ahead. *Ice Cream Field* 52(6): 45, 47, 49, 53. Dec. 1948. 389.8 Ic23

The ice cream industry.

21566 HERRMANN, L. F. Can our dairy industry meet the needs at home and abroad? Manufactured dairy products. *Northeast. Dairy Conf. Ann. Rpt.* 13: 10-14. 1948. 44.9 N818

21567 HEVIA, O. Comercio, industrialización y distribución de la leche y sus derivados [Chile]. *Agr. Austral* 14: 7348-7350. Sept. 1948. 9.3 Ag842

21568 HILL, R. A. New Zealand dairying. *Dairy Indus.* 13: 971-976. Oct. 1948. 44.8 D1427

21569 HOFFMANN, K. Der kampf um die wirtschaftsverbände. *Osterr. Milch- u. Fettwirtschaft* 3: 248-249. Nov. 1948. 44.8 Os72

Organization in the dairy and fat industry.

21570 HOWE, D. K. Butter: the industry's balance wheel. *South. Dairy Prod. J.* 44(6): 34. Dec. 1948. 44.8 So83

21571 HOYT, L. W. Problems in the operation of city milk plants. *Milk Plant Monthly* 37(12): 104-106. Dec. 1948. 44.8 C864

Also in *Dairy World* 27(7): 15-17, 20. Dec. 1948.

21572 HUISMAN, T. P. Die milchwirtschaft der Niederlande. *Süddeut. Molkerei-Ztg.* 69: 32-34. Feb. 12, 1948. 44.8 Su2

21573 JACKSON, E. T. A milk program is needed! A plan must be found! *Jersey B.* 67: 2088-2089, 2120. Dec. 10, 1948. 43.8 J48

21574 JACKSON, L. E. Sustained production, less exports for '49. *Dairymen's League News* 32(26): 5, 20. Dec. 28, 1948. 44.8 D1432

21575 JESNESS, O. B. The dairy situation. *Amer. Butter & Cheese Rev.* 10(12): 14-16. Nov. 1948. 44.8 Am37

Also in *Amer. Milk Rev.* 10(12): 28, 32, 74. Dec. 1948. 44.8 Am38

21576 KLINE, A. B. Prospects for 1949 look "fairly good." *Dairymen's League News* 32(26): 8. Dec. 28, 1948. 44.8 D1432

21577 LEVAGGI, G. La producción lechera en Tierra del Fuego. *Esnea* 35(1510): 1. Dec. 17, 1948. 44.8 Es5

21578 MCCONNELL, J. A. Boom times for at least half of '49. *Dairymen's League News* 32(26): 1, 14. Dec. 28, 1948. 44.8 D1432

21579 MASSÉ, L. L'industrie laitière occupe l'U. C. C. [Union Catholique des Cultivateurs] dans Québec-nord. *Terre de Chez Nous* 21(4): 27-28. Oct. 20, 1948. 7 T27

21580 MATALLANA VENTURA, S. La epoca heroica de las industrias lácteas. *Siembra* 1948(8/9): 13-16. Aug./Sept. 1948. 15 Si1

21581 MELLO, A. The question of milk in São Paulo VI, VIII. (In Portuguese.) *Rev dos Criadores* 18(12): 37-39; 19(2): 91-93. Dec. 1947, Feb. 1948. 43.8 R32

21582 MURRAY, R. F. Is the dairy industry in jeopardy? *Pure milk Prod. Press* 13(6): 15-16. Nov. 1948. 280.28 P972

21583 MYERS, W. I., and CUNNINGHAM, L. C. Prospects for dairymen in 1949. *Dairymen's League News* 32(26): 2, 17. Dec. 28, 1948. 44.8 D1432

21584 MYRICK, N. Outlook for winter. *Amer. Milk Rev.* 10(12): 8, 10. Dec. 1948. 44.8 Am38

Dairy industry.

21585 NATIONAL DAIRY ASSOCIATION OF NEW ZEALAND, LIMITED. Report and balance sheet, for 12 months ended March 31st, 1948. Wellington, 1948. 4 p. 44.9 N213A

21586 NICHOLS, M. B. Dairying at the Land of the Equator [Ecuador]. *Hoard's Dairymen* 93: 924. Dec. 25, 1948. 44.8 H65



- 21587 NIELEBOCK, E. W. Von ziegenbutter und anderem. Land u. Frau 28(3): 6. Aug. 21, 1948. 18 D482L
- 21588 O'DONNELL, P. E. Can our dairy industry meet the needs at home and abroad? Fluid milk. Northeast. Dairy Conf. Ann. Rpt. 13: 2-9. 1948. 44.9 N818
- 21589 PEDERSEN, O. B. Needs of Danish dairy industry outlined before international group. South. Dairy Prod. J. 44(6): 118-119, 130-131. Dec. 1948. 44.8 So83
- 21590 PERRINS, G. They're making milk in the Intermountain West. West. Dairy J. 5(2): 22, 39. Dec. 1, 1948. 44.8 W524
- 21591 PHILLIPS, C. A. Goat's milk cheese. Food Indus. So. Africa 1(3): 28, 30. July 1948. 389.8 F372
- 21592 FOIROT, P. L. The dairy and poultry outlook. G. L. F. Week Serv. Sched. 13(28): 4. Jan. 10, 1949. 280.28 G113W
- 21593 REICHART, E. L. Cheese industry problems. DPMA News 9(2): 3. Nov. 1948. 280.28 D144
- 21594 REID, W. H. E. Standardization of methods in dairy plant operation. Amer. Butter & Cheese Rev. 10(12): 34-37. Nov. 1948. 44.8 Am37
- 21595 RIBEIRO, J. DE A. The SALTE plan. The section on milk and milk derivatives and thoughts on suggested measures. II. (In Portuguese.) Rev. dos Criadores 19(8): 33-36. Aug. 1948. 43.8 R32
- Brazil.
- 21596 RICKSHAM, R. I. Fuller milk pails in '49. Natl. Grocers B. 35(12): 68-69. Dec. 1948. 286.83 N214
- Dairy industry outlook.
- 21597 RIFORD, L. S. 1949 prospects for Northeast dairymen. Dairymen's League News 32(26): 9, 17. Dec. 28, 1948. 44.8 D1432
- 21598 RIGOR, T. V. Starting a dairy. Philippine Livestock Mag. 2: 86-87, 100. Feb./Mar. 1948. 49 P53
- 21599 ROBINSON, H. Yogurt makes a stateside pitch. Amer. Milk Rev. 10(12): 44-45. Dec. 1948. 44.8 Am38
- Also in Amer. Butter & Cheese Rev. 10(13): 38-41. Dec. 1948. 44.8 Am37
- 21600 SAAR, Das problem der lenkung in der österreichischen milchwirtschaft. Österr. Milch- u. Fettwirtschaft 3: 241-245. Nov. 1948. 44.8 Os72
- 21601 SATO, J. Fundamental conditions for dairy-farming in Japan. l. Ohara Inst. Agr. Res. Rpt. 37(3): 20-22. May 1948. 22.5 N684
- 21602 SCHMEIDA, O. Die milchindustrie am scheideweg. Süddeut. Molkerei-Ztg. 69: 94-95. Apr. 22, 1948. 44.8 Su2
- 21603 SCHÖBER, K. Schwedens milchwirtschaft. Österr. Milch- u. Fettwirtschaft 3: 193-198. Sept. 1948. 44.8 Os72
- 21604 SEVERSON, H. A can of milk for every cotton acre. Dairy World 27(7): 21, 24-25. Dec. 1948. 44.8 D1423
- Hinds County Mississippi.
- 21605 SOLLBERGER, W. Milchversorgung und milchverarbeitung im winter 1948/49. Schweiz. Zentbl. f. Milchw. 37: 230. Oct. 22, 1948. 44.8 Sch93
- 21606 SPARAPANI, G. C. The cheeses of Castelsanpietro E. (In Italian.) Latte 22(11): 13-14. Nov. 1948. 44.8 L35
- 21607 STANLEY, B. 1948 was a great year. Calif. Dairyman 28(23): 72. Dec. 18, 1948. 44.8 C12
- 21608 STÜBER, O. Besuch in einer tiroler alpsen-nerie. Österr. Milch- u. Fettwirtschaft 3: 253-254. Nov. 1948. 44.8 Os72
- 21609 TAGGART, J. Milk shortage in Texas. Amer. Milk Rev. 10(12): 23. Dec. 1948. 44.8 Am38
- 21610 THOMSEN. Leistungsreserve in städtischen milchversorgungsbetrieben. Molk.-Ztg. [Hildesheim] 1: 177-178. Dec. 6, 1947. 44.8 M735
- 21611 TRIGG, R. S. Dairy industry in healthy economic position. Dairymen's League News 32(26): 1, 14. Dec. 28, 1948. 44.8 D1432
- 21612 TURK, K. L. What's ahead in '49. Dairymen's League News 32(26): 6. Dec. 28, 1948. 44.8 D1432
- 21613 TYERMAN, D. Adquiere creciente importancia la industria lechera en el Commonwealth. Indus. Lechera 30: 689. Oct. 1948. 44.8 In26
- 21614 VARNEY, H. H. Production and market trends. Mich. Milk Messenger 30(9): 1. Jan. 1949. 44.8 M582
- 21615 WIRTH, F. British dairy show. Amer. Milk Rev. 11(1): 46-47. Jan. 1949. 44.8 Am38
- 21616 WOLTERS, F. Die entwicklung der städtischen milchversorgung unter besonderer berücksichtigung der verhältnisse in Rheinland-Westfalen. Molk.-Ztg. [Hildesheim] 1: 162-164. Nov. 22, 1947. 44.8 M735
- 21617 ZATTA, P. "Asiago" cheese. (In Italian.) Latte 22(9): 9-10. (To be cont.) Sept. 1948. 44.8 L35
- Analysis and Composition
- 21618 ANANTAKRISHNAN, C. P., and KOTHAVALLA, Z. R. Investigations on evaporated buffalo milk. Indian J. Vet. Sci. & Anim. Husb. 17: 105-111. June 1947. 41.8 In22
- 21619 BAKER, M. P. Meaning and interpretation of bacterial counts. Milk Plant Monthly 37(12): 107. Dec. 1948. 44.8 C864
- 21620 BORRELL, S. Determinación de las diferentes fracciones proteínicas de la leche. Soc. Españ. de Fís. y Quím. An. Ser. B, Quím. 44: 375-389. Ref. Mar. 1948. 385 So16
- English summary.
- 21621 CAULFIELD, W. J. How to interpret laboratory tests. Ice Cream Field 52(6): 27, 29. Dec. 1948. 389.8 Ic23
- In ice cream manufacture.
- 21622 GISIN, I. On the fat content of Caucasian cheese from sheep's milk. (In Russian.) Moloch. Promysh. 9(6): 18. June 1948. 44.8 M734
- 21623 KOPACZEWSKI, W. Étude physico-chimique du lait. Lait 28: 365-400. (Cont.) July/Aug. 1948. 44.8 L143
- 21624 KRISHNASWAMY, M. A., and LAXMINARYANA, H. A comparative study in the use of different media for the estimation of coliform organisms in milk. Indian J. Vet. Sci. & Anim. Husb. 17: 231-236. Ref. Dec. 1947. 41.8 In22
- 21625 LABLANCHY, A. Les appréciations des caractères physiques et chimiques du lait. SPEL; B. Int. d'Inform. et de Doc. 3(8/9): 7-9. Aug./Sept. 1948. 44.8 Spl
- 21626 MARTINEZ PECOITS, C. C. El test coli en la pasteurización de la leche. La Plata. U. Nac. Facul. de Cien. Quím. Rev. 21: 45-46. 1946, pub. 1947. 385 L31
- 21627 MARX, H. J. Die schwankungen im gehalt der kuhmilch. Tierzucht 2: 116-117. July/Aug. 1948. 49 T443
- 21628 MERZARI, A. H. Las coloraciones rojizas de importancia en la industria lechera. Campo y Suelo Argentino 32(384): 14-16. Oct. 1948. 9 C15
- 21629 MOHR, W., and SCHULZ, F. Konsistenz der butter. II. Milchwissenschaft 3: 362-366. Dec. 1948. 44.8 M5933
- Summary in English, French, and Russian.
- 21630 MOHR, W., and HASING, J. Vergleich verschiedener fettbestimmungsmethoden bei der anwendung auf milchpulver und kindernährmittel. Milchwissenschaft 3: 321-327. Nov. 1948. 44.8 M5933
- Summary in English.
- 21631 PAUL, T. M., and others. Composition of free fatty acids in high acid ghee. Indian J. Vet. Sci. & Anim. Husb. 17: 95-100. June 1947. 41.8 In22
- V. R. Bhalerao, C. P. Anantakrishnan, and M. C. Rangaswamy, joint authors.
- 21632 PETERSEN, N. Über buttersäurebakterien und ihre bekämpfung in der kaserei. Molk.-Ztg. [Hildesheim] 1: 149-150, 165-166. Nov. 8-22, 1947. 44.8 M735
- 21633 ROADHOUSE, C. L. Bacteria in market milk. Calif. Dairyman 28(23): 43-45. Dec. 18, 1948. 44.8 C12
- 21634 ROEDER, G. Korrektur der spindelanzeige bei molke. Milchwissenschaft 3: 335-340. Nov. 1948. 44.8 M5933
- Summary in English.
- 21635 RUNOV, E. Development of micro-organisms in Soviet, Iaroslav and Volga cheese. (In Russian.) Moloch. Promysh. 9(6): 32-36. June 1948. 44.8 M734
- 21636 SHAMA SASTRY, K. N., and DASTUR, N. N. Detection of adulteration of milk with milk powder. Indian J. Vet. Sci. & Anim. Husb. 17: 119-132. June 1947. 41.8 In22
- 21637 SINGH, P. G. R., PAUL, T. M., and ANANTAKRISHNAN, C. P. The variations of acidity, alcohol test and phosphate number in samples of fresh buffalo milk. Indian J. Vet. Sci. & Anim. Husb. 17: 237-241. Dec. 1947. 41.8 In22



21638 TATARINOVA, N. Determining vitamin B<sub>1</sub> in milk. (In Russian.) *Moloch. Promysh.* 9(7): 36-37. July 1948. 44.8 M734

21639 THOMAS, S. B. and others. Investigations on milk rejected on the ten-minute resazurin test. II. Deterioration in test results of milk held for 2 to 4 hours at summer temperatures. *Dairy Indus.* 13: 966-968. Oct. 1948. 44.8 D1427

E. Jones-Evans, T. J. Lewis, and W. L. R. Vaughan, joint authors.

21640 THOMAS, S. B., and others. The sterility of apparatus and solutions used for testing milk at laboratories licensed by the Ministry of Agriculture. *Soc. Appl. Bact. Proc.* 1947(2): 62-64. Jan. 14, 1948. 44.8.39 Sol2

L. F. L. Clegg, P. M. Hobson, E. Jones-Evans, C. G. Jones, and E. J. Nokes, joint authors.

21641 TRETSVEN, W. I. Variations in milk and their effects on processing. 2. *Milk Plant Monthly* 37(12): 37-39, 73. Ref. Dec. 1948. 44.8 C864

21642 TROUT, G. M., BRUNNER, J. R., and LUCAS, P. S. The Babcock fat test of reconstituted milk. *Mich. Agr. Expt. Sta. Q. B.* 31: 194-197. Nov. 1948. 100 M58S

21643 VERESHCHAGINA, V. On the microflora of Siberian butter. (In Russian.) *Moloch. Promysh.* 9(7): 25-30. July 1948. 44.8 M734

21644 WATSON, D. W., YORKE, P., and DAVIS, J. G. Observations on the provisional methylene blue test for ice cream. *Soc. Appl. Bact. Proc.* 1947(2): 58-61. Jan. 14, 1948. 44.8.39 Sol2

21645 WILHARM, G. Butterprüfung. *Landfrau* 3(17/18): 16-17. Sept. 1948. 18 L2337

21646 WILHARM, G. Käseprüfung. *Landfrau* 3(19/20): 14-15. Oct. 1948. 18 L2337

#### Consumption and Utilization

21647 COOK, H. L. Upward trends in the use of milk in bakery foods. *Cracker Baker* 37(12): 37-38. Dec. 1948. 389.8 C84

21648 KUMETAT, K. Grundfragen der molkenverwertung. *Süddeut. Molkerei-Ztg.* 69: 492. Nov. 18, 1948. 44.8 Su2

21649 LUCAS, P. S. Flavor preferences in ice cream. *Spice Mill* 71(12): 65-66, 68. Dec. 1948. 389.8 Sp4

21650 MATHER, E. J. Public acceptance of ice cream as a food. *Confectionery-Ice Cream World* 40(26): 16, 24. Dec. 24, 1948. 389.8 C767

21651 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Trabajos en coco y Carey, by P. Laguna. *Rev. Rio Piedras*, 1948. 4 p. 275.2 P96Tr

21652 SPEERS, A. M. La consommation familiale et les produits laitiers. *Québec Lait.* 7(10): 11-16. Oct. 1948. 44.8 Q3

21653 U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumption of fluid milk and cream in Northeastern marketing areas, by P. E. O'Donnell. Washington, 1948. 53 p. 1.941 M3C76

#### Distribution, Marketing, and Transportation

21654 BENNETT, MRS. C. D. Roadside stand provides market for milk. *Dairy Goat J.* 26(12): 15. Dec. 1948. 40.18 M592

21655 BUSHNELL, H. H. Good bye milk cans! *West. Dairy J.* 5(1): 17, 36-38. Nov. 1, 1948. 44.8 W524

Use of tanks for transporting milk.

21656 CRONSHEY, R. H. Youth, as dairymen. *Calif. Dairyman* 28(23): 54-55. Dec. 18, 1948. 44.8 C12

In dairy cooperatives.

21657 CROSSLEY, E. L., and PATTEN, B. E. M. A note on the bacteriological aspects of distribution of heat-treated milk in churns. *Soc. Appl. Bact. Proc.* 1947(2): 50-57. Jan. 14, 1948. 44.8.39 Sol2

21658 DAVIES, J. L., and BIGMORE, W. D. Current trends in milk markets and marketing. *Soc. Dairy Technol. J.* 2(1): 3-9. Oct. 1948. 44.8 Sol2

Discussion, p. 9-13.

21659 DUPLAN, J. H. The trend in ice cream sales. *Canad. Dairy & Ice Cream J.* 27(12): 46, 48, 74. Dec. 1948. 44.8 C162

21660 EASTERBROOK, L. F. Sharing out the milk in Great Britain. *Milk Dealer* 38(3): 90, 92, 94. Dec. 1948. 44.8 M595

Marketing.

21661 ERIKSSON, F. Cooperation between the Milk Central—Agricultural Association in Sundsvall. (In Swedish.) *SL-kontakt* 1948: 15-18. 11 Sv28S

21662 ETCHEPARE, A. L'évolution de la culture, l'hygiène et la présentation des fruits et légumes. *Fructidor* (n. s.) 14(33): 1, 3; (34): 14. (Concl.) Nov. 25, Dec. 5, 1948. 286.83 F9423

21663 FERRARI, A. Considerations on domestic and foreign trade in cheeses [Italy]. (In Italian.) *Mondo del Latte* 1948(10): 17, 19. Oct. 1948. 44.8 M74

Summary in French and English.

21664 GAUMITZ, E. W. Developing dairy service programs. *Natl. Assoc. Marketing Off. Proc.* (1947)28: 48-49. 1948? 280.39 N213P

21665 GFRERER. Kontingentmilch statt milchkontingent. *Salzburg. Bauer* 3(43): 1-2. Oct. 21, 1948. 19 Sa3

21666 GHORMLEY, A. M. Lead in dairy production needs good marketing too. *Calif. Dairyman* 28(23): 18-19. Dec. 18, 1948. 44.8 C12

21667 HIBBEN, R. C. Let's sell ice cream in 1949. *Confectionery-Ice Cream World* 40(26): 14. Dec. 24, 1948. 389.8 C767

21668 HOFSTEDE, P. TER. The cherry auctions. (In Dutch.) *Groenten en Fruit* 4: 262. Nov. 4, 1948. 80 G89

Netherlands.

21669 HOLMAN, C. W. Selling milk is '49 task. *Dairymen's League News* 32(26): 16. Dec. 28, 1948. 44.8 D1432

21670 HULT, M. National Dairy Council conditions your market. *Calif. Dairyman* 28(23): 34-36. Dec. 18, 1948. 44.8 C12

21671 IRVINE, O. R. Cutting large cheese for retail sale. *Canad. Dairy & Ice Cream J.* 27(12): 27-29, 74. Dec. 1948. 44.8 C162

21672 MATHER, E. J. Safeguard your markets. *Ice Cream Trade J.* 44(12): 50, 52, 63, 65, 88-92. Dec. 1948. 389.8 Ic2

21673 MERISH, F. Goodwill, the hidden treasure to business. *Milk Plant Monthly* 37(12): 60-62. Dec. 1948. 44.8 C864

21674 MERRITT, R. K. Feature bulk ice cream for more profits. *Ice Cream Field* 52(6): 38-39, 71-72. Dec. 1948. 389.8 Ic23

21675 MICHIGAN MILK PRODUCERS' ASSOCIATION. Annual report and proceedings, thirty-second annual meeting, November 4, 1948. n. p., 1948. 40 p. 280.2449 M58

Includes market analysis.

21676 MILLER, C. R. "Red" danger in apples. *East. Fruit Grower* 11(10): 8, 10, 12. Dec. 1948. 80 Ea73

Demand for Red Delicious apples.

21677 NIEMEYER. Ist milchablieferungsrückgang eine folge gesunkener liefermoral? *Molk.-Ztg. [Hildesheim]* 1: 198. Dec. 20, 1947. 44.8 M735

Germany.

21678 OLSSON, L. A. Milk in U. S. A. (In Swedish.) *SL-kontakt* 1948: 27-30. 11 Sv28S

Marketing and prices.

21679 PARK, R. H. Today's advertising trends. *Amer. Milk Rev.* 10(12): 16-17. Dec. 1948. 44.8 Am38

Also in *Amer. Butter & Cheese Rev.* 10(13): 2-3, 48. Dec. 1948. 44.8 Am37

21680 PARODNECK, M. Ten years of consumer farmer cooperation. *Northeast. Union Farmer* 8(1): 2. Jan. 1949. 280.28 F227

Consumer-Farmer Milk Cooperative, Inc.

21681 RUBERG, G. Bizonal durchlaufender bezugschein und lieferbeziehungen. *Süddeut. Molkerei-Ztg.* 69: 390-393. Oct. 14, 1948. 44.8 Su2

21682 SVENSSON, M. History of a cooperative milk plant; farmer's association build milk plant in Okome in Halland year 1882. (In Swedish.) *SL-kontakt* 1948: 65-67. 11 Sv28S

21683 WEIGMANN, H. Die milchwirtschaftliche woche Kiel 1948. *Süddeut. Molkerei-Ztg.* 69: 350-351. Oct. 7, 1948. 44.8 Su2

21684 WELCH, W. F. A practical approach: your advertising problems. *South. Dairy Prod. J.* 44(6): 56-57, 60-61. Dec. 1948. 44.8 So83

21685 WERNER, R. J. Other foods help sell milk products. *Calif. Dairyman* 28(23): 19, 21. Dec. 18, 1948. 44.8 C12



21686 WILSTER, G. H. Factors in building cheese sales. *Natl. Butter & Cheese J.* 40(1): 25, 46. Jan. 1949. 286.85 B98Bu

21687 WINTERS, S. R. Milk sales vary with family incomes. *Hoard's Dairyman* 94(1): 19. Jan. 10, 1949. 44.8 H65

#### Grading, Inspection, Standardization and Quality

21688 BOUTON, L. Ist zur zeit die herstellung von qualitätskäse unrentabel? *Süddeut. Molkerei-Ztg.* 69: 494-495. Nov. 18, 1948. 44.8 Su2

21689 DAHLBERG, A. C., and KOSIKOWSKY, F. V. New developments on flavor of American Cheddar cheese. *Cherry-Burrell Circle* 1948: 3-5. Nov./Dec. 1948. 44.8 C42

21690 DASTUR, N. N., KANNAN, A., and KOTHAVALLA, Z. R. Possibility of colouring vanaspati with ratanjot to prevent its use as an adulteration in ghee. *Indian J. Vet. Sci. & Anim. Husb.* 17: 171-176. Sept. 1947. 41.8 In22

21691 DÜRRWAECHTER. Auf dem wege zur veredlungswirtschaft; freiwillige milchkontrolle und mitgliedschaft zum zuchtverband! *Landw. Wchnbl.* 138: 248-249. (Cont.) Sept. 11, 1948. 18 L2338 Germany.

21692 FOUTS, E. L. Quality is not enough. *Ice Cream Field* 52(6): 22, 30, 32. Dec. 1948. 389.8 Ic23

21693 GLAZIER, L. R. Cream defects-- their causes and preventions. *Amer. Milk Rev.* 10(12): 64-65. Dec. 1948. 44.8 Am38

21694 HUISMAN, H. J. The quality of consumers' milk. (In Dutch.) *Econ. Voorlichting* 42: 1844. Oct. 13, 1948. 280.8 Ec724

21695 JENSEN, C., BECK, L. D., and PLATH, E. Standardization of North Dakota creamery butter. *N. Dak. Agr. Expt. Sta. Bimo. B.* 11: 7-10. Sept./Oct. 1948. 100 N813B

21696 KELLERMANN, R. Versuche über die haltbarkeit von alfabutter. *Molk.-Ztg. [Hildesheim]* 1: 147-148. Nov. 8, 1947. 44.8 M735

21697 KOESTLER, G. Kritische bemerkungen zum grenzsäuregrad der milch. *Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene* 39: 337-341. 1948. 389.9 Sw6

French summary.

21698 LEVIN, M. D. Less regulation, more cooperation. *Amer. Milk Rev.* 10(12): 6-7. Dec. 1948. 44.8 Am38

In the dairy industry.

21699 MOHR, W., and BAUR, K. Fetteinheitenverbrauch pro kilogramm butter. *Süddeut. Molkerei-Ztg.* 69: 358-360. Oct. 7, 1948. 44.8 Su2

21700 PATSEY, B. W. The quality program. *Amer. Butter & Cheese Rev.* 10(12): 20-21. Nov. 1948. 44.8 Am37

21701 PIEN, J. Production biologique des substances concourant à la formation de l'arome du beurre. *Lait* 28: 337-354. July/Aug. 1948. 44.8 L143

21702 QUADRI, P. A propos of the classification of Parmesan cheese. (In Italian.) *Latte* 22(11): 9-10. Nov. 1948. 44.8 L35

21703 RICCIARDI, A. The status of ice cream standards. *Ice Cream Trade J.* 44(12): 58, 60, 85-88. Dec. 1948. 389.8 Ic2

21704 ROBINSON, J. F. Cheese shows and higher quality cheese. *Canad. Dairy & Ice Cream J.* 27(12): 70, 72. Dec. 1948. 44.8 C162

21705 SHIELDS, J. Carelessness a frequent cause of tainted [goat's] milk. *Smallholder* 80(2016): 23. Nov. 19, 1948. 10 Sml

21706 STASKIEWICZ, G. The problem of milk hygiene. (In Polish.) *Med. Wet.* 4: 794-797. Ref. Dec. 1948. 41.8 M463

English summary.

21707 SVEDBERG, H. Butter quality and retail prices. (In Swedish.) *Svenska Mejeritidningen* 40: 431-433. (Cont.) Nov. 20, 1948. 44.8 Sv2

21708 THOMÉ, K. E., and POLLACK, E. The rôle of the "aroma bacteria" in Swedish Herrgård cheese. *Acta Agr. Suecana* 3: 75-82. Ref. 1948. 11 Ac8

21709 VERONA, O. What we know of the microbial origin of butter aroma. (In Italian.) *Olearia* 2: 739-743. Nov. 1948. 307.8 OL2

21710 WAITE, R. The effect of dissolved metals in milk and milk products. *Austral. Milk & Dairy Prod. J.* 15(8): 24-25. Aug. 1948. 44.8 Au72

21711 ZEILER, K. Zeitgemäße qualitätsforschung. *Süddeut. Molkerei-Ztg.* 69: 454-456. Nov. 5, 1948. 44.8 Su2

#### Packing and Packaging

21712 ERBACHER, E. Das verpackungsmaterial für käse. *Süddeut. Molkerei-Ztg.* 69: 97-99. (Cont.) Apr. 22, 1948. 44.8 Su2

21713 LEMBKE, A. Verbesserung der trinkmilchaufbereitung, ein beitrag zur hebung der volksgesundheit. *Süddeut. Molkerei-Ztg.* 69: 134-138. June 3, 1948. 44.8 Su2

21714 LUTHER, M. Zur milchkannenfrage. *Süddeut. Molkerei-Ztg.* 69: 159-160. June 30, 1948. 44.8 Su2

21715 MOLDAVAN, A. Quatre milliards de bouteilles en carton. *Québec Lait.* 7(11): 20, 22. Nov. 1948. 44.8 Q3

21716 NICKERSON, T. A., and COULTER, S. T. Packaging of print butter. *Amer. Butter & Cheese Rev.* 10(13): 18, 20, 22, 24, 26-27. Ref. Dec. 1948. 44.8 Am37

Also in *Natl. Butter & Cheese J.* 40: 26-27, 52, 54-57. Ref. Jan. 1949. 286.85 B98Bu

#### Prices, Price Control, and Rationing

21717 CAMPBELL, B. A. The consumer and dairy product prices. *Canad. Dairy & Ice Cream J.* 27(12): 58, 60, 62, 68. Dec. 1948. 44.8 C162

21718 DOW, G. F. New price formula. *Northeast. Dairy Conf. Ann. Rpt.* 13: 73-83. 1948. 44.9 N818

21719 ECKARDT, G. Milchpreisgestaltung und ihre auswirkungen in Österreich. *Süddeut. Molkerei-Ztg.* 69: 362-363. Oct. 7, 1948. 44.8 Su2

21720 HOWALD, O. Noch ein wort zum milchpreis. *Schweiz. Zentbl. f. Milchw.* 37: 237. Nov. 5, 1948. 44.8 Sch93

21721 HOWALD, O. Weitere stimmen zur milchpreisfrage. *Schweiz. Zentbl. f. Milchw.* 37: 234. Oct. 29, 1948. 44.8 Sch93

21722 MAYR, J. Rund um den neuen frischmilchpreis. *Süddeut. Molkerei-Ztg.* 69: 360-362. Oct. 7, 1948. 44.8 Su2

21723 MILK IS an economical food; a National Dairy Council digest. *Amer. Milk Rev.* 11(1): 62-63. Jan. 1949. 44.8 Am38

21724 PARODNECK, M. The milk dealers are crying. *East. Union Farmer* 6(11): 8. Dec. 1948. 280.28 Ea72

Prices.

21725 QUADRI, P. Value of milk based on fat content. (In Italian.) *Mondo del Latte* 1948(10): 21-23. Oct. 1948. 44.8 M74

Summary in French and English.

21726 SPENCER, L. Demand in the New York market. *Amer. Milk Rev.* 11(1): 8, 10. Jan. 1949. 44.8 Am38

Milk prices.

21727 VIAL, E. E. Some facts about dairy prices. *Amer. Milk Rev.* 11(1): 2-3. Jan. 1949. 44.8 Am38

21728 WALWORTH, G. Milk registrations no cause for complacency. *Co-op. Rev.* 23: 244-245. Dec. 1948. 280.28 C7823

Great Britain.

#### Processing and Storage

21729 ARBUCKLE, W. S. Will egg products improve ice cream? *Ice Cream Field* 52(6): 24-25. Dec. 1948. 389.8 Ic23

21730 ARNOULD, C. Les fromages passés. *Acclimatation* 75: 273. Dec. 25, 1948. 14 Ac2

21731 AUZINGER, A. Randbemerkungen zum regensburger neutralisierungsprozess. *Süddeut. Molkerei-Ztg.* 69: 458-459. Nov. 5, 1948. 44.8 Su2

21732 AVDIENKO, P. How we are manufacturing Gouda cheese. (In Russian.) *Moloch. Promysh.* 9(6): 37-40. June 1948. 44.8 M734

Poshekhono-Volodarskii Zavod.

21733 BAKHSHINIAN, S. My method of making cheese. (In Russian.) *Moloch. Promysh.* 9(7): 41-42. July 1948. 44.8 M734

21734 BALLARIN, O. Dairy studies in Holland. (In Portuguese.) *B. do Leite* 2(15): 1-4. Sept. 1948. 44.8 B633



- 21735 BARANOVSKII, N. Comparative evaluation of construction of butter processing equipment in the continuous process. (In Russian.) *Moloch. Promysh.* 9(7): 10-14. July 1948. 44.8 M734
- 21736 BEHMER, M. L. A. Butter manufacture. (In Portuguese.) *Granja [Porto Alegre]* 3(35): 46-47. Aug. 1948. 9.2 G76
- 21737 BÉLANGER, G. Le lait de beurre artificiel. *Québec Lait.* 7(10): 18-20. Oct. 1948. 44.8 Q3
- 21738 BELOUSOV, A. Concerning the temperature of cheese pressing. (In Russian.) *Moloch. Promysh.* 9(6): 7-10. June 1948. 44.8 M734
- 21739 BIERMAN, H R., and BROMLEY, W. D. Over-run and dipping yields. *Ice Cream Trade J.* 44(10): 96, 98, 139-141. Oct. 1948. 389.8 Ic2
- 21740 BLIN, H. Le lait de brebis et le fromage de roquefort. *Rustica* 21: 884. Dec. 12, 1948. 14 R92
- 21741 BORISOV, S. Greater attention to the production of dried milk. (In Russian.) *Moloch. Promysh.* 9(7): 23-24. July 1948. 44.8 M734
- 21742 BURKE, A. D. Practical ice cream making. Milwaukee, Olsen Pub., 1947. 328 p. 389.2 B91
- 21743 CASTELO, M. La higiene del tambo. Uruguay. Min. de Ganad. y Agr. B. Inform. 240: 11. (Cont.) Oct. 14, 1948. 9.9 G15B
- 21744 CUÉNOT, M. A. La farine lactée. *Lait* 28: 355-365. July/Aug. 1948. 44.8 L143
- 21745 DAVIDOV, R., KARSNITSKAIA, M., and KHOLOPOVA, A. Cheese storage at low temperatures. (In Russian.) *Moloch. Promysh.* 9(6): 19-22. June 1948. 44.8 M734
- 21746 DHARMANI, L. C., and LOHARA, K. S. Preservative effect of common salt on the development of acidity in stored ghee. *Indian J. Vet. Sci. & Anim. Husb.* 17: 59-62. Mar. 1947. 41.8 In22
- 21747 DIKIS, M. Utilization of continuous evaporation in the manufacture of canned milk. (In Russian.) *Moloch. Promysh.* 9(7): 18-22. July 1948. 44.8 M734
- 21748 DRENNCKHAN, E. Molkereimaschinenpflege. *Süddeut. Molkerei-Ztg.* 69: 96-97. Apr. 22, 1948. 44.8 Su2
- 21749 EGOROV, I., and TITOV, A. How to process mixed butter effectively. (In Russian.) *Moloch. Promysh.* 9(7): 45. July 1948. 44.8 M734
- 21750 FARRALL, A. W. Engineering developments in the dairy industry. *Calif. Dairyman* 28(23): 22, 24-25. Dec. 18, 1948. 44.8 C12
- 21751 GIBSON, G. L. Ice cream manufacture; how to operate an ice cream freezer. *Food Indus. So. Africa* 1(7): 27-31. Nov. 1948. 389.8 F7372
- 21752 GRÜSCHOW, F. Das pressen von käsen nach holländer art. *Molkerei-Ztg.* 1: 181. Dec. 6, 1947. 44.8 M735
- 21753 GUTHRIE, E. S. Starter for butter, cheese, cultured cream, and cultured buttermilk. N. Y. Agr. Col. Cornell Ext. B. 179, rev., 12 p. Oct. 1948. 275.29 N48E
- 21754 HALL, H. S. Fuel economy in dairy sterilization. *Milk Messenger* 25(12): 4-7. Dec. 1948. 44.8 M5925
- 21755 HUMPHRISS, E. Mix cooling - a problem in small production units. *Dairy Indus.* 13: 1021-1022. Oct. 1948. 44.8 D1427
- In ice cream.
- 21756 HUREL, C., and PETRANSXIENE, D. Méthodes d'études des ferments lactiques et en particulier des streptocoques des levains de fromagerie. *SPEL; B. Int. d'Inform. et de Doc.* 3(8/9): 37-42. Aug./Sept. 1948. 44.8 Sp1
- 21757 ISHERWOOD, A. W. Milk handling at the country creamery. *Soc. Dairy Technol. J.* 2(1): 45-49. Oct. 1948. 44.8 So12
- 21758 JOHNSON, R. Safeguarding ice cream quality. *L. Dairyman* 65: 497-499. Nov. 1948. 44.8 D1426
- 21759 JOSEPHSON, D. V. Recent trends in dairy cleaners and sterilizers. *Pacific Dairy Rev.* 52(12): 34. Dec. 1948. 286.85 P11
- 21760 KAMNEV, B. Pressing Dutch cheese on double-lever presses. (In Russian.) *Moloch. Promysh.* 9(6): 46. June 1948. 44.8 M734
- 21761 KIDSON, A. L. Churnless butter, making experiments. *Farmer's Weekly [Bloemfontein]* 107. Nov. 24, 1948. 24 F225
- 21762 KOBZEV, D. Calculation of recipe for milk and cream ice cream. (In Russian.) *Moloch. Promysh.* 9(7): 32-36. July 1948. 44.8 M734
- 21763 KOERVER, C. Flavor materials. *Ice Cream Trade J.* 44(10): 84, 164-173. Oct. 1948. 389.8 Ic2
- Also in *Amer. Milk Rev.* 11: 36-40, 48. Jan. 1949. 44.8 Am38
- 21764 KOLOSOV, N. Manufacture of Soviet cheese. (In Russian.) *Moloch. Promysh.* 9(6): 40-43. June 1948. 44.8 M734
- 21765 KOPYTOV, F. Achievements of the cheese makers in Kalinin Region. (In Russian.) *Moloch. Promysh.* 9(7): 44. July 1948. 44.8 M734
- 21766 KRONRAFF, K. Zur wahl von tauchmotor-pumpen für molkereien. *Österr. Milch- u. Fettwirtschaft* 3: 203-205. Sept. 1948. 44.8 Os72
- 21767 LEGGATT, A. G. Quaternary ammonium compounds for creamery churns. *Canad. Dairy & Ice Cream J.* 27(12): 32-35, 74. Dec. 1948. 44.8 C162
- 21768 LE ROI, D. Electronic pasteurization. *Milk Indus.* 29(6): 56-58. Dec. 1948. 44.8 M593
- 21769 LOMUNOV, A. System of culturing cream in Siberian butter manufacture. (In Russian.) *Moloch. Promysh.* 9(7): 5-10. July 1948. 44.8 M734
- 21770 LUK'IANOV, N. Formula for separating [milk fat]. (In Russian.) *Moloch. Promysh.* 9(6): 25-29. June 1948. 44.8 M734
- 21771 MACQUIN, De l'utilisation du froid en beurrerie. *Rev. Prat. du Froid* 4(2): 31-32. Nov. 1948. 295.8 R323
- 21772 MASUROVSKY, B. I. Stabilization of chocolate ice cream. *Ice Cream Trade J.* 44(10): 114. Oct. 1948. 389.8 Ic2
- 21773 MATTHEWS, J. The part played by the Society in the standardisation of dairy equipment. *Soc. Dairy Technol. J.* 2(1): 44. Oct. 1948. 44.8 So12
- 21774 MIRONENKO, A. Improving the keeping quality and strengthening the aroma of butter. (In Russian.) *Moloch. Promysh.* 9(6): 23-24. June 1948. 44.8 M734
- 21775 MOHR, Die Versuchs- und Forschungsanstalt in Kiel. *Süddeut. Molkerei-Ztg.* 69: 353-355. Oct. 7, 1948. 44.8 Su2
- Versuchs- und Forschungsanstalt für Milchwirtschaft.
- 21776 MOORE, A. V. An efficient electric milk pasteurizer for home use. *Amer. Milk Rev.* 11(1): 54-55. Jan. 1949. 44.8 Am38
- 21777 MORIN, C. Un controle de la qualité du lait avant la pasteurisation. *Québec Lait.* 7(10): 36-38. Oct. 1948. 44.8 Q3
- 21778 NEMTSEV, N., and SERNICH, M. Production of chocolate butter from mixed butter. (In Russian.) *Moloch. Promysh.* 9(7): 42-43. July 1948. 44.8 M734
- 21779 NIKITIN, N. How to prevent defects of cheese. (In Russian.) *Moloch. Promysh.* 9(7): 46. July 1948. 44.8 M734
- 21780 PARISI, O. Views on the production of typical Italian cheeses. (In Italian.) *Mondo del Latte* 1948(10): 7-8, 10-14. Oct. 1948. 44.8 M74
- Summaries in French and English.
- 21781 PETERSEN, N. Verbesserung von aroma und konsistenz der butter. *Molkerei-Ztg.* 1: 179-181. Dec. 6, 1947. 44.8 M735
- 21782 PIEN, J. De la nécessité impérieuse du point de vue de l'hygiène et du point de vue industriel d'améliorer les conditions de la récolte du lait. 2. *Indus. Lait.* (n. s.) 25: 173-182. Oct. 1948. 44.8 In2
- Pasteurization.
- 21783 PIRAUX, E. Les difficultés du barattage des crèmes à la ferme. *Rev. de l'Agr.* 1: 743-748. Sept./Oct. 1948. 13 R322
- 21784 RANGAPPA, K. S., and BANERJEE, B. N. Storage of indigenous butter. *Bangalore Dairy Cattle Soc. Monthly B.* 7: 74-75. Sept. 1948. 43.9 B22
- 21785 RESUGGAN, J. C. L. Detergency. *Milk Indus.* 29(6): 44-48. Dec. 1948. 44.8 M593
- 21786 RICE, E. B. Studies on starters. V. Effect of pathological or physiologically abnormal milk on acid production by lactic acid streptococci. *Dairy Indus.* 13: 983. Oct. 1948. 44.8 D1427
- 21787 RINN, M. Die magermilcherhitzung in rahmstationen. *Süddeut. Molkerei-Ztg.* 69: 433-435. Oct. 28, 1948. 44.8 Su2
- 21788 ROBINSON, E. A. "Engineered" sanitation for modern milk pasteurizing plants. *Milk Dealer* 38(3): 47, 72, 74, 78, 80, 82-83. Dec. 1948. 44.8 M595



21789 RODENKIRCHEN, J. Die bedeutung des acetins und diacetyls für das aroma von rahmsäuerungskulturen. *Milchwissenschaft* 2: 329-335. Aug. 1947. 44.8 M5933

21790 SAVINOVSKIY, N. Protracted storage of sour cream at various temperatures. (In Russian.) *Moloch. Promysh.* 9(7): 15-18. July 1948. 44.8 M734

21791 SCHLIPKÖTER, W. Gedanken über die herstellung genussfertiger milchzubereitungen in grossstadtbetrieben. *Molk.-Ztg.* [Hildesheim] 1: 164. Nov. 22, 1947. 44.8 M735

21792 SCHOCK, A. A., and BREAZEALE, D. F. Cultured buttermilk from non-fat dry milk solids. *S. Dak. Agr. Expt. Sta. B.* 391, 31 p. Ref. June 1948. 100 So82

21793 SCHWARZ, G., and SYDOW, G. Der nachweis der hochehrhitzung von milch mit hilfe des "Hochehrhitzungsreagenzes N 3." *Molk.-Ztg.* [Hildesheim] 1: 195. Dec. 20, 1947. 44.8 M735

21794 SCHWARZ, G., and MUMM, H. Zusätze zur kesselmilch und ihre auswirkungen. *Süddeut. Molkerei-Ztg.* 69: 160-161. June 30, 1948. 44.8 Su2

Use of calcium chloride, potassium nitrate and sodium nitrate in cheese manufacture.

21795 SEMENOV, S. Decrease in the weight of cheese during ripening and storage. (In Russian.) *Moloch. Promysh.* 9(6): 10-16. June 1948. 44.8 M734

21796 SREBNIK, V. Production of soft cheese without the use of sodium carbonate. (In Russian.) *Moloch. Promysh.* 9(6): 44-45. June 1948. 44.8 M734

21797 STOLL, G. Bedienung und pflege des molke-reidampfkessels. *Österr. Milch- u. Fettwirtschaft* 3: 202-203. Sept. 1948. 44.8 Os72

21798 STÜSSI, D. Das CO<sub>2</sub>-butterungsverfahren system Dr. James Senn. *Süddeut. Molkerei-Ztg.* 69: 158. June 30, 1948. 44.8 Su8

21799 STÜSSI, D. Die neue butterzentrale in Luzern. *Grüne* 76: 1181-1190. Nov. 1948. 17 Sch9

21800 SUTTOR, K. H. Die wärmepumpe in der milchindustrie. *Milchwissenschaft* 3: 340-344. Nov. 1948. 44.8 M5933

Summary in English.

21801 SVIRIDOV, S. Horizontal press and expeller for cheese. (In Russian.) *Moloch. Promysh.* 9(7): 38-40. July 1948. 44.8 M734

21802 SWIFT & CO. STABILIZER DEPT. How stabilizer affects the physical structure of ice cream. *South. Dairy Prod. J.* 44(6): 47. Dec. 1948. 44.8 So83

21803 TALCE, D. Untersuchungen an säureweckern. *Süddeut. Molkerei-Ztg.* 69: 30-31. Feb. 12, 1948. 44.8 Su2

In butter manufacture.

21804 TIEDEMAN, W. D. Sanitation standards for milk industry equipment. *Standards World* 1(1): 77-80. Winter 1948. 309.8 St22

21805 TURNER, C. W. "Good housekeeping" spurs sanitation savings. *Milk Plant Monthly* 37(12): 53-55. Dec. 1948. 44.8 C864

21806 WEBB, F. C. Ice cream. *Soc. Dairy Technol. J.* 2(1): 27-37. Oct. 1948. 44.8 So12

Discussion, p. 37.

21807 WELLSHAUSEN, O. Erfahrungen mit neuen butterungsverfahren. *Milchwissenschaft* 3: 344-346. Nov. 1948. 44.8 M5933

21808 WILLIAMS, D. H. Making ice cream and sherbet in the home. *U. S. Bur. Dairy Indus. BDIM-Inf.* 1, rev., 6 p. Nov. 1948. 1.973 D4B34

21809 WILSMANN, W. Der trennvorgang in der schleudertrommel. *Milchwissenschaft* 3: 327-334, 366-371. (Concl.) Nov.-Dec. 1948. 44.8 M5933

English, French, and Russian summaries.

21810 WILSTER, G. H. A compendium of discussions relating to dairy technology and dairy manufacturing. *Oreg. Agr. Expt. Sta. C. Inform.* 439, 253 p. Ref. Nov. 1948. 100 Or3C

21811 ZADRA, A. The rational manufacture of cheeses. (In Italian.) *Latte* 22(9): 13-14. Sept. 1948. 44.8 L35

21812 ZEILER, K. Der steinecker-käsefertiger. *Schweiz. Milchztg.* 74: 445-447. Oct. 1, 1948. 44.8 Sch92

#### Statistics

21813 CALIFORNIA. CROP AND LIVESTOCK REPORTING SERVICE. Manufactured dairy products, milk production, utilization and prices. *Calif. Dept. Agr. Spec. P.* 230, 66 p. Sacramento, 1948. 2 C121S

U. S. Bureau of Agricultural Economics and California Bureau of Agricultural Statistics cooperating.

21814 U. S. BUR. OF AGRICULTURAL ECONOMICS. Production of manufactured dairy products, 1947. Washington, 1948. 34 p. 1.9 Ec724D

21815 THOMANN, W. Die käseproduktion im winter 1947/48. *Schweiz. Milchztg.* 74: 543-544. Nov. 26, 1948. 44.8 Sch92

Statistical.

Also in *Schweiz. Zentbl. f. Milchw.* 37: 254-255. Nov. 26, 1948. 44.8 Sch93

21816 TYSSER, H. F., ed. Fruit annual, 1947/48, year-book and directory of the world's fruit trade. London, British-Continental Trade Press, 1947. 323 p. 225 F943

Statistical.

#### FEED AND FORAGE CROPS

21817 BAUR, M. Stand der futterpflanzenvermehrung in Westfalen. *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 51. (To be cont.) Apr. 3, 1948. 18 L2346

21818 BERGER, W. C. The contribution of the feed manufacturing industry to poultry raising in the United States. *World's Poultry Cong. Off. Rpt.* 8: 537-543. 1948. 47.9 W8980

French summary.

21819 BERGER, W. C. Feed industry progress. *Flour & Feed* 49(8): 7-8. Jan. 1949. 298.8 F66

21820 BOPST, L. E. Feed control activities. *Flour & Feed* 49(8): 8. Jan. 1949. 298.8 F66

21821 BOPST, L. E. Feed control through standards. *Standards World* 1(1): 81-84. Winter 1948. 309.8 St22

21822 BURLINGHAM, L. Televising a bag of feed. (Sum.) *Westernnews* 10(4): 11-12. Dec. 1948. 389.78 W522

Feed quality.

21823 COLTRANE, D. S. Less trouble with feeds. *Flour & Feed* 49(8): 43. Jan. 1949. 298.8 F66

21824 CRIST, H. G., JR. We doubled our feed volume. *Coop. Digest* 9(6A): 32. Dec. 15, 1948. 280.28 C7896

21825 CUNNINGHAM, L. C. Feed prices decline, other costs in dairy farming continue high. *Metrop. Milk Prod. News* 8(12): 18. Nov. 1948. 280.28 M56

21826 CUNNINGHAM, L. C. The feed situation. *N. Y. Agr. Col. Cornell Feed Serv.* 21: 1-2. Nov. 1948. 275.29 N48Cf

21827 CURTIS, F. B. Indiana [feed] control since 1907. *Flour & Feed* 49(8): 14. Jan. 1949. 298.8 F66

21828 DAVIDSON, H. R. Vast maize crop looking for a home; British pig producers are crying out for feeding stuffs, the bacon ration is reduced, while America has a surplus of 15 million tons of grain. *Farmer & Stock-Breeder* 62: 2950. Dec. 21, 1948. 10 F228

21829 DAS GUPTA, N. C. A survey of the feeds and fodders and the requirements of the livestock in the United Provinces. *Indian J. Vet. Sci. & Anim. Husb.* 17: 34-44. Ref. Mar. 1947. 41.8 In22

21830 EPPS, E. A., JR. Steps toward [feed] uniformity. *Flour & Feed* 49(8): 42. Jan. 1949. 298.8 F66

21831 HENDRIX, C. H. Feed future fine for 1949. *Flour & Feed* 49(8): 39. Jan. 1949. 298.8 F66

21832 HORST, E. G. Continued bright and fair. *Flour & Feed* 49(8): 16. Jan. 1949. 298.8 F66

Feed industry.

21833 HUNTER, W. L. Value of co-operation. *Flour & Feed* 49(8): 10. Jan. 1949. 298.8 F66

In the feed industry.

21834 HURST, W. M. Modern feedmill—modern feeds. *Farmers' Elevator Guide* 43(12): 11-12. Dec. 1948. 280.28 Am3

21835 JOHNSTON, Mrs. E. M. Iowa's feed business. *Flour & Feed* 49(8): 26. Jan. 1949. 298.8 F66

21836 KELLER, D. S. Can our dairy industry meet the needs at home and abroad? Feed supplies—have we the ingredients? *Northeast. Dairy Conf. Ann. Rpt.* 13: 18-22. 1948. 44.9 N818

21837 MARSH, G. H. A of AFCA [Association of American Feed Control Officials] definitions. *Flour & Feed* 49(8): 26. Jan. 1949. 298.8 F66

21838 NEUMANN-BEVERUNGEN. Die ergebnisse einer futterbau leistungsprüfung. *Land, Wald u. Garten* 2: 353-354. Dec. 1947. 18 L22

21839 NUNN, W. M. A simple method of handling feed wheat in bulk. *West. Austral. Dept. Agr. Leaflet* 885, 5 p. Perth, 1947. 23 W52B



- 21840 OHIO. DEPT. OF AGRICULTURE. DIVISION OF PLANT INDUSTRY. Official report of commercial feeds, fertilizer and agricultural liming materials, January-June, 1948. Columbus, 1948. 151 p. 2 Oh36Or
- 21841 PERUCHON DE BROCHARD, J. La vérification de l'homologation avant fabrication des formules d'aliments composés pour le bétail. Voix des Colons 30(1472): 1-2. Oct. 4, 1948. 24 V85  
Also in Réveil Agr. 57: 359-360. Dec. 1, 1948. 14 R322
- 21842 PREBLUDA, H. J. Feed industry outlook for 1949. Flour & Feed 49(8): 35. Jan. 1949. 298.8 F66
- 21843 ROBERTS, A. It's time to review your business during the past year. Feedstuffs 20(51): 43-45. Dec. 18, 1948. 286.81 F322
- 21844 SCHEIDENHELM, E. C. Can our dairy industry meet the needs at home and abroad? Feed supplies—a way out. Northeast. Dairy Conf. Ann. Rpt. 13: 22-24. 1948. 44.9 N818
- 21845 SEWELL, W. E. Solvent extracted cottonseed meal, a new product in the feed trade. Feedstuffs 20(51): 54-58. Dec. 18, 1948. 286.81 F322
- 21846 SIKKA, L. C. An estimate of the food requirements of milch and other cattle in India. Indian J. Vet. Sci. & Anim. Husbandry 17: 29-33. Mar. 1947. 41.8 In22
- 21847 SMITH, S. S. Prospects for 1949. Flour & Feed 49(8): 39. Jan. 1949. 298.8 F66
- 21848 SNYDER, J. L. K. Feed markets in 1949. Flour & Feed 49(8): 39. Jan. 1949. 298.8 F66
- 21849 SOULE, A. M. G. Progress of feed control work. Flour & Feed 49(8): 8. Jan. 1949. 298.8 F66
- 21850 STADLER, H. Das Futter als Grundlage der Viehwirtschaft; ohne Verbesserung der Futtergrundlage keine Leistungssteigerung! Salzburg. Bauer 3(43): 3-4. Oct. 21, 1948. 19 Sa3
- 21851 SWARUP, R. Cattle food position in Delhi Province. Indian J. Vet. Sci. & Anim. Husbandry 17: 45-47. Mar. 1947. 41.8 In22
- 21852 SYKES, J. D. 1949 feed outlook. Flour & Feed 49(8): 14. Jan. 1949. 298.8 F66
- 21853 WILLIAMSON, G., KARTHA, K. P. R., and SWARUP, R. An estimate of the food requirements of milch and other cattle in India and suggestions as to how present agricultural practice can be adjusted to provide them. Indian J. Vet. Sci. & Anim. Husbandry 17: 23-28. Mar. 1947. 41.8 In22
- 21854 WILSON, E. Our feeding problems are solved at last. Poultry [London] 103: 357. Nov. 2, 1948. 47.8 P869

## FIBERS AND TEXTILES

- 21855 AHMAD, N., and IYENGAR, R. L. N. A new method for the determination of the average diameter of textile fibres, filaments, fine wires, etc. Indian J. Agr. Sci. 17: 104-113. Apr. 1947. 22 Ag831
- 21856 ANTONIUS, C. The franco-station Gabbary contract. Egypt. Cotton Gaz. 5: 9-12. Sept. 1948. 72.8 Eg9  
Futures.
- 21857 BHAT'S all India textile year book and directory, 1947. Coimbatore, 1948? various paging. 304.9 B46
- 21858 BIGMAN, V. I. U. Chto nado znat' o kachestve shersti i ee' porokakh [What it is necessary to know about the quality and defects of wool]. Moskva, Zagotizdat, 1947. 60 p. 45 B482
- 21859 BOMBAY (PRESIDENCY) PROVINCIAL INDUSTRIES COMMITTEE. TEXTILE INDUSTRIES SUB-COMMITTEE. Report. Bombay, Govt. Central Press, 1947. 19 p. 304 B633
- 21860 BOOTH, E. H. Wool—the fibre of the future as well as of the past. Textile Rec. Bk. of the Year 1947/48: 60. 304.9 T314
- 21861 BROADFOOT, H. H., and SCHWARZ, E. R. Laboratory techniques; an improved permanent mounting medium for textile fibers. Textile Res. J. 18: 756-758. Dec. 1948. 304.8 T293  
Photomicrography.
- 21862 CALVO, C. A. Casimir—cachemira—kashmir. Bolsa de Com., Rosario. Rev. 36(880): 3-4. Sept. 15, 1948. 287 R71
- 21863 CHANDRARATNE, M. F. Cotton in Ceylon. Indian Geog. J. 22: 92-103. Apr./June 1947. 331.8 In2
- 21864 CLEVELAND, G. California cotton acreage likely to rise in '49. Cotton Trade J. 30(3): 15. Jan. 21, 1949. 72.8 C8214
- 21865 COGGI, S. Variations in criteria of location in the jute industry in its 50 years of existence in Italy. (In Italian.) Mondo Tessile 3: 378-379. Aug./Sept. 1948. 304.8 M742
- 21866 COLLINS, R. P. Dealer views mohair situation. Sheep & Goat Raiser 29(3): 41. Dec. 1948. 45.8 Sh3
- 21867 COSS, H. T., and TAYLOR, J. L. Ramie today. Ga. Engin. Expt. Sta. C. 10(14), 11 p. Aug. 1948. 290.9 G292C
- 21868 CRAM, B. Le genet, plante textile. Unité Paysanne 3(162): 4. Dec. 11, 1948. 14 Un3
- 21869 CRONJÉ, F. J. Will wool prices again go down like after the last war? (In Afrikaans) Wolboer 1948(13): 3-4. Aug. 1948. 45.8 W83
- 21870 DAVIDSON, W. A. B. Made-to-order "fibers" help build increasing new market in men's apparel. Rayon & Synth. Textiles 30(1): 71 (To be cont.) Jan. 1949. 304.8 R21
- 21871 DEAN, J. D. Preserving cotton fabrics in outdoor use. U. S. D. A. C. 790, 17 p. Aug. 1948. 1 Ag84C  
Supersedes Farmers' bulletin 1157: Waterproofing and mildewproofing of cotton duck, by H. P. Holman and T. D. Jarrell.
- 21872 DODI, R. The textile industry at present. Rev. Econ. Cond. Italy 2: 396-399. Nov. 1948. 280.8 R3236
- 21873 DUNCAN, W. J., JR. Duncan calls for higher cotton yields, foresees prosperity for this year. Cotton Trade J. 30(3): 23. Jan. 21, 1949. 72.8 C8214
- 21874 DUNKERLEY, J. R. Wear resistance of fibers. (Abs.) Textile Indus. 112(12): 110-111. (To be cont.) Dec. 1948. 304.8 C823
- 21875 FISHER, J. L. Rhode Island wool pool. New England Homestead 121(23): 3. Dec. 11, 1948. 6 M442  
Organization of the Southern Rhode Island Wool Pool.
- 21876 FITE, G. C. Voluntary attempts to reduce cotton acreage in the South, 1914-1933. J. South Hist. 14: 481-499. Nov. 1948. 134.8 J82
- 21877 FLETCHER, H. M., and JONES, M. V. Dimensional changes in certain cotton, wool, and rayon woven fabrics during various cleaning and pressing processes. U. S. D. A. C. 793, 27 p. Ref. Nov. 1948. 1 Ag84C
- 21878 FORNELL, D. Animalization of cellulosic fibers. Amer. Dyestuff Rptr. 37: 853-858, 882. Ref. Dec. 27, 1948. 306.8 Am3
- 21879 FULLERTON, D. J. The 1947 flax crop. Austral. Flax Prod. Com. Newslet. 65: 52-54. Sept. 1948. 73.19 Au7
- 21880 GERARD, G. L'électricité statique dans le travail de la fibrane. Inst. Textile de France. B. 1948 (7): 9-20. Sept. 1948. 304.8 T3145
- 21881 GERDES, F. L. Research points the way toward improved ginning and packaging of cotton. Oil Mill Gaz. 53(6): 13-14. Dec. 1948. 307.8 Oi53
- 21882 GORTER, C. J. Het aantonen van beschadigen van wol door microscopisch onderzoek [The determination of wool damage through microscopical research]. Netherlands. Vezelinst. T. N. O. Pam. 7, 10 p. Delft, 1947. 304.9 N382  
English summary.
- 21883 GREAT BRITAIN. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. Flax retting with aeration, a process of re-using an industrial waste water. Gt. Brit. Dept. Sci. and Indus. Res. Water Pollut. Res. Tech. Paper 10, 146 p. 1948. 292.9 G79
- 21884 GUHA, S. K. A plea for establishment of a fibre development board. Sci. Club. J. 2: 12-15. Aug. 1948. 475 Sci29  
India.
- 21885 HALL, A. J. The principles of textile bleaching. II. The bleaching of protein fibres. Fibres 9: 477-478. Dec. 1948. 304.8 F16
- 21886 HALLER, R. Über die aufnahme von kupfer-salzen durch vegetabilische gespinnstfasern und durch verschiedene kunstseidenfasern. Melland Textilber. 29: 168-169. May 1948. 304.8 T312  
English summary.
- 21887 HATCH, A. R. Marine cordage—its manufacture, use and maintenance. (Abs.) Atlantic Fisherman 29(10): 22, 34. Nov. 1948. 414.8 At6



- 21888 HATHORN, S., JR. Identify those cotton bales. *Ariz. Farmer* 27(25): 32. Dec. 11, 1948. 6 Ar44
- 21889 HAWKINS, R. S., and THOMAS, W. I. The effect of moisture content, field exposure, and processing on the spinning value of Arizona upland cotton. *Ariz. Agr. Expt. Sta. Tech. B.* 115, p. 249-292. Ref. June 1948. 100 Ar4
- 21890 HINDLEY, H. O. R. The old order changeth. *Textile Rec. Bk. of the Year 1947/48*: 53-54. 304.9 T314 Cotton industry.
- 21891 JACKENDOFF, R. The wool situation. *Wool Digest* 2(25): 1-4. Oct. 5, 1948. 304.8 W883
- 21892 KEH, K. China's silk excels all substitutes. *China Trade Monthly* 2: 924, 952. Nov. 1948. 286.8 C44
- 21893 KEH, K. Recovery of China's silk industry near. *China Trade Monthly* 2: 524-525, 563. June 1948. 286.8 C44
- 21894 KIRBY, R. H. Fibres in brushmaking. III. Vegetable fibres. *Fibres* 9: 469-471. Dec. 1948. 304.8 F16
- 21895 KUO, J. S. The cotton textile industry of Japan. (In Chinese.) *Cent. Bank Monthly* 3(8): 32-36. Aug. 1948. 280.9 C335
- 21896 LACEY, J. J. Keep fleeces clean. *Wool News* 14(5): 3. Dec. 1948. 280.28 W882
- 21897 LACEY, SIR R. Cotton's problems can be solved! *Textile Rec. Bk. of the Year 1947/48*: 46-47. 304.9 T314
- 21898 LATHROP, E. C., and NAFFZIGER, T. R. Evaluation of fibrous agricultural residues for structural building board products. *Tech. Assoc. Pulp & Paper Indus., Tech. Assoc. Papers* 31: 337-343. June 1948. 302.9 T22
- 21899 LEE, B. Y. Review of China's postwar cotton industry. *China Trade Monthly* 2: 706-711. (Concl.) Aug. 1948. 286.8 C44
- 21900 MCCONNELL, R. J. Spinning cotton, rayon and wool on the "American system." *Whitin Rev.* 15(2): 19-23. Nov. 1948. 304.8 W58
- 21901 MCCULLOCH, N. G. Organisation and efficiency. *Textile Rec. Bk. of the Year 1947/48*: 51-52. 304.9 T314 Lancashire textile industry.
- 21902 MAUERSBERGER, H. R. Rayon—modern successor to silk. *Comments Argentine Trade* 28(4): 13-15. Nov. 1948. 287 C359C
- 21903 MAY, B. M. Bright future seen for "Orlon" acrylic fiber. *Rayon & Synth. Textiles* 30(1): 33. Jan. 1949. 304.8 R21
- 21904 MENZEL, K. C. Der einfluss der mechanischen nachbearbeitung auf die qualität des flockenbastes. *Melliand Textilber.* 29: 93-95. (To be cont.) Mar. 1948. 304.8 T312 English summary.
- 21905 MOOLMAN, J. H. High wool prices in true perspective. *Wolboer* 1947(3): 23. Oct. 1947. 458 W83
- 21906 NAESMITH, A. A critical year for cotton. *Textile Rec. Bk. of the Year 1947/48*: 54-55. 304.9 T314
- 21907 NAGABHUSHANA, SRI. Variations in the properties of the cotton fibre in relation to its position on the surface of the seed. II. *Indian J. Agr. Sci.* 17: 305-339. Ref. Dec. 1947. 22 Ag831
- 21908 NANDA, P. N., and SINGH, T. A new method for the study of extension in wool fibre. *Indian J. Vet. Sci. & Anim. Husb.* 17: 209-213. Sept. 1947. 41.8 In22
- 21909 NATIONAL ASSOCIATION OF SCOTTISH WOOLLEN MANUFACTURERS. Carbonising. *Scot. Woolens* 38, 8 p. Aug. 1948. 304.8 Sco8
- 21910 OERTEL, F. Analytische betrachtung des aufwindvorgangs beim wagenspinner. *Textil-Rundschau* 3: 331-335. Oct. 1948. 304.8 T3139
- 21911 OLLEA, D. E. La industria algodoneria en el país, necesita cada año más algodón. *Gac. Algodonera* 24(296): 1-3. Sept. 30, 1948. 72.8 G11 Argentina.
- 21912 OLLEA, D. E. El problema de la producción y del consumo de algodón en el país. *Gac. Algodonera* 24(297): 1-2. Oct. 31, 1948. 72.8 G11 Argentina.
- 21913 ORR, W. Blending fibers at drawing process. *Textile Indus.* 113(1): 91. Jan. 1949. 304.8 C823
- 21914 PALMER, SIR W. Rayon's road ahead. *Textile Rec. Bk. of the Year 1947/48*: 61-62. 304.9 T314
- 21915 PALUMBO, M. Chromatic identification of textile fibers and synthetic resins containing tertiary amines. (In Italian.) *Ann. di Chim. Appl.* 38: 519-524. Sept. 1948. 385 An7
- 21916 PFEFFER, E. C., JR. The causes and elimination of fabric shrinkage. *Rayon & Synth. Textiles* 30(1): 57-58. Jan. 1949. 304.8 R21
- 21917 PFEIFFENBERGER, G. W. Impacts of mechanization on cotton spinning. (Abs.) *Textile Indus.* 112(12): 93-94. Dec. 1948. 304.8 C823
- 21918 PINHEIRO, R. The drama of the cotton planters. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 3(27): 2. Sept. 1948. 280.28 C7856
- 21919 PINTE. Détermination du degré de polymérisation moyen des fibres cellulose dans un laboratoire de recherche scientifique appliquée. *Inst. Textile de France. B.* 1948 (7): 21-42. Sept. 1948. 304.8 T3145 English summary.
- 21920 PORTUGAL. JUNTA DE EXPORTAÇÃO DO ALGODÃO COLONIAL. DELEGACÃO DE MOÇAMBIQUE. *Estatística algodoeira.* n. p., 1947. 47 p. 286.3729 P83
- 21921 POTTER, H. V. Synthetic fibres—historical survey of the development of some synthetic fibrous materials. (Sum.) *Chem. & Indus.* 1948: 795. Dec. 11, 1948. 382 M31C
- 21922 PRICHARD, G. L. The flaxseed outlook for 1949. *Washington, U. S. Prod. and Mktg. Admin.*, 1948. 8 p. 1.956 F26P93
- 21923 PRINGLE, A. V. The theory and practice of flax spinning. *Fibres, Fabrics & Cordage* 15: 358-362. (Cont.) Nov. 1948. 304.8 Ir42
- 21924 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Cómo preparar la hoja de sabután, by P. Laguna. *Rio Piedras*, 1948. 8 p. 275.2 P96Cp
- 21925 QUIG, J. B. Orlon acrylic fiber—a new synthetic. *Textile B.* 74: 40, 42, 44. Dec. 1948. 304.8 So82
- 21926 RAMSTHALER, K. Über die auswirkung hoher, zum optimalen zeitpunkt erfolgten verstreckung auf die faserseigenschaften einer viskose-zellwolle. *Melliand Textilber.* 29: 39-42. Feb. 1948. 304.8 T312 English summary.
- 21927 ROBERTS, A. Cotton—Britain's No. 1 priority. *Textile Rec. Bk. of the Year 1947/48*: 56. 304.9 T314
- 21928 ROSSOUW, S. D. By-products from wool; if all the potash from the South African clip were recovered, the country's potash requirements could be supplied. (In Afrikaans.) *Wolboer* 1948(15): 3-4. Oct. 1948. 45.8 W83
- 21929 RÜDIGER, W. Bemerkungen über den faser-technischen wert der fruchstielchen des leins. *Melliand Textilber.* 29: 77-78. Mar. 1948. 304.8 T312 English summary.
- 21930 SALZMANN, G. Für und wider die zellwolle. *Melliand Textilber.* 29: 149-150. May 1948. 304.8 T312 English summary.
- 21931 SANDERSON, J. R. Historical notes on Whitin cotton machinery, 1832-1910. *Whitin Rev.* 15(2): 26-31. Nov. 1948. 304.8 W58
- 21932 SHEPHERD, W. The rolling of retted flax straw. *Austral. Flax Prod. Com. Newslet.* 65: 56-57. Sept. 1948. 73.19 Au7
- 21933 SMITH, L. Cotton plans a research program. *Amer. Dyestuff Rptr.* 37: P866-P870, P878. Dec. 27, 1948. 306.8 Am3
- 21934 SONNAVILLE, W. H. DE, and DIJKSHOORN, K. J. Universele textielkunde [Universal textile science]. *Deventer, Kluwer*, 1948. 456 p. 304 So5
- 21935 SZYMANEK, J. Etude histologique de quelques variétés de lin. *Inst. Textile de France. B.* 1948(7): 43-64. (To be cont.) Sept. 1948. 304.8 T3145
- 21936 TALEGÓN HERAS, F. Comprobación del rendimiento en los ovinos de aptitud lana. *Lérida Ganad.* 3: 116-118. June 1948. 41.8 L56
- 21937 TAYLOR, H. S. Molecular structure in fibre systems. *Rec. Chem. Prog.* 9: 35-43. Ref. Summer 1948. 381 R24
- 21938 TONDU, P. Le problème séricicole et l'Union Française. 10. *Marseille. Inst. Colon. Cahiers Colon.* (n. s.) 10: 308-317. Oct. 1948. 286.8 M35
- 21939 UHTHOFF, M. Flachsente und qualität. *Deut. Landw. Presse* 71(3): 5. Aug. 21, 1948. 18 D482



21940 UNITED PROVINCES. DEPT. OF AGRICULTURE. Third or final forecast of the cotton crop for the year 1947-48. Lucknow, 1947. 3 p. 72.9 In29

21941 VELTMAN, G. H. Zusammenhänge zwischen den wachstumsfaktoren der pflanze und der faser einerseits und der faserqualität andererseits. *Melliand Textilber.* 29: 4-6, 42-45. Jan.-Feb. 1948. 304.8 T312

21942 VIDAL FERNÁNDEZ, B. Blanqueo del lino. *Ceres* 13(147): 9. Sept. 1, 1948. 15 C33

21943 WANGERIN, A. Wie behandelt die bäuerin ihren flachs? *Land u. Frau* 28(5): 8-9. Sept. 4, 1948. 18 D482L

21944 WARD, W. Wool's prospects bright. *Textile Rec. Bk. of the Year 1947/48*: 58-59. 304.9 T314

21945 WEBER, A. P. Enige beschouwingen over het krimpen en krimpvrij maken van wollen goederen [Observations on the shrinkage and shrink-proofing of woolen goods]. *Netherlands. Vezelinst. T. N. O. Pam.* 6, 18 p. Delft, 1947. 304.9 N382

English summary.

21946 WILLOUGHBY, R. The importance of wool to our national economy. *Sheep & Goat Raiser* 29(3): 44, 49-50. Dec. 1948. 45.8 Sh3

21947 WINTERBOTTOM, F. S. Cotton at the crossroads. *Textile Rec. Bk. of the Year 1947/48*: 49-50. 304.9 T314

21948 WITHERSPOON, J. Speeding cotton stapling with electronic fibrograph. *Textile Indus.* 113(1): 87-90. Jan. 1949. 304.8 C823

21949 WRIGHT, R. E., and HARRIS, M. Textile research pays dividends. *Chem. & Engin. News* 27(1): 23-25. Jan. 3, 1949. 381 J825N

#### FRUITS, VEGETABLES, AND NUTS

21950 AGUERO POLO, R. Importancia local para el establecimiento y desarrollo del cultivo de frutas. *Agronomia [Habana]* 8(11): 14-16, 18-19. Nov. 1948. 8 C893

21951 BENDER, E. K. 1947--the Maryland Ten-Ton Tomato Club. *Tri-State Packers' Assoc. Tomato B.* 10: 16-17. June 24, 1948. 280.39 T73T

21952 BOMBAY. DEPT. OF AGRICULTURE. Final memorandum on the tur crop of the Bombay Province (British Districts only) for the season 1946-47. Poona, 1947. 3 p. 77.9 B637Mt

21953 BREGGER, J. T. Problems in fruit production. *Packer* 49(4): 10. Dec. 25, 1948. 286.8 N483

21954 CATTOIR, L. Une richesse meconnue. *Colon. Franç. de Tunisie* 58(2075): 1-2. Nov. 27, 1948. 24 C712

The market gardening industry.

21955 DALMASSO, G. The economic problem of re-constructing the grape industry. (In Italian.) *Com. Vinic.* 20(42): 1-2. Oct. 30, 1948. 390.8 C732 Italy.

21956 EICHELKRAUT, H. Früchte aus nachbars garten. *Thür. Gartenbau* 1947(10): 8. Aug. 15, 1947. 80 T42

21957 FINDLEN, P. J. Valor and vegetables in post-war Poland. *Mkt. Growers J.* 77(10): 5, 19-21. Oct. 1948. 6 M34

Includes the vegetable production situation.

21958 FLACCOMIO, E. Citrus production suffers. (In Italian.) *Mezzogiorno Agr.* 4(43): 3. Nov. 7, 1948. 16 M57

21959 FONTANILLE, H. L'évolution des vignobles tunisien et marocain. *Algérie Agr. et Vitic.* 26(1027): 1. Feb. 19, 1948. 24 AL37

21960 GINOUX, R. Situation des producteurs de légumes des Bouches-du-Rhône pendant l'année 1948 dans les régions d'exploitation. *Bouches du Rhône Agr.* 21 (992): 7. Dec. 15, 1948. 14 B662

21961 GUZZINI, D. Chestnuts take the stage. (In Italian.) *Gior. di Agr.* 58: 325. Nov. 21, 1948. 16 It1G

21962 HABRAN, R. Impressions de voyage en Suisse fruitière. *Rev. de l'Agr.* 1: 731-735. Sept./Oct. 1948. 13 R322

21963 HECKENBERGER, H. Die kernobsternte. *Landw. Wchnbl.* 138: 276. Sept. 25, 1948. 18 L2338 Germany.

21964 HECKENBERGER, H. Wie steht es mit dem feldgemüsebau? *Landw. Wchnbl.* 138: 263. Sept. 18, 1948. 18 L2338

Germany.

21965 HEER, A. Warum kann der obstbaumbedarf nicht gedeckt werden? *Saat u. Ernte* 2(12): 11. Dec. 1947. 18 Sa12

Germany.

21966 HUTCHINSON, C. B. A review of the College of Agriculture's work in the vegetable ind. *West. Grower & Shipper* 20(1): 29, 56. Dec. 1948. 280.38 W52 University of California.

21967 JAUME, J. La uva. *Balearic Isl. Diputación Prov. B. de Agr.* 48: 4. Sept. 1948. 15 B19

21968 KENDALL, C. Progress in Oregon's Klamath Basin. *Fruit & Veg. Rev.* 9(9): 14, 27. Dec. 1948. 80 C1224

Potato industry.

21969 KLINKOWSKI, M. Die pflanzkartoffelerzeugung in neuzeitlicher betrachtung. *Bauern-Jahrb.* 1948: 37-40. 18 B322

Germany.

21970 KOENS, A. J., and BOLHUIS, G. G. Leguminous plants. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. *De landbouw in de Indische Archipel. Deel IIa*, p. 241-277. Ref. 's-Gravenhage, 1948. 37 H14L

21971 KOENS, A. J., and BOLHUIS, G. G. Root plants. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. *De landbouw in de Indische Archipel. Deel IIa*, p. 163-240. Ref. 's-Gravenhage, 1948. 37 H14L

21972 LARSEN, N. C. Grape: old favorite wins new popularity. *Natl. Bottlers' Gaz.* 67(802): 157-158, 160, 163. Dec. 1948. 390.8 N21

Grape products.

21973 LEWIS, T., and WOODWARD, E. F. Papain. *Drug & Cosmetic Indus.* 63: 734-735, 812-814. Dec. 1948. 396.8 D842

21974 LUBICH, H. Salzburgs gemüsebau: gestern, heute, morgen. *Salzburg. Bauer* 3(38): 1-3, 6. Sept. 16, 1948. 19 Sa3

21975 MARAÑON, G. Himno médico a la naranja—elogios al limón. *Balearic Isl. Diputación Prov. B. de Agr.* 39: 6-8. Dec. 1947. 15 B19

21976 MEINKE, E. Badischer weinbau in gegenwart und zukunft. *Saat u. Ernte* 2(11): 3. (To be cont.) Nov. 1947. 18 Sa12

21977 PERRICHON, A. Modalités d'indemnisation dans le cadre de la loi du 23 oct. 1940, sur les dommages de guerre des cultures horticoles sinistrées. *Rev. Hort. [Paris]* 119: 345-348. Aug. 1947. 80 R32

21978 PEYRONNET, R. L'Afrique du Nord doit-elle craindre une surproduction d'agrumes? *Rev. Agr. de l'Afrique du Nord* 46: 502-503. Oct. 8, 1948. 80 R326

21979 REICH, W. A. Open letter to the produce industry. *Natl. Grocers B.* 35(12): 72, 104. Dec. 1948. 286.83 N214

21980 REYNE, A. The coconut palm. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. *De landbouw in de Indische Archipel. Deel IIa*, p. 427-525. Ref. 's-Gravenhage, 1948. 37 H14L

21981 RICE, W. S. Deliveries indicate 1948 dried prune yield will approach 180,000 tons. *Sunsweet Standard* 32(7): 4-5. Dec. 1948. 286.83 Su7

21982 RIGHTOR, A. P. What has the fresh produce industry done! *Natl. Grocers B.* 35(12): 66, 100. Dec. 1948. 286.83 N214

21983 SEGURA, J. I. La industria frutícola, la vitivinicultura y la olivicultura en Mendoza. *Rev. Mens. Ilus. B. A. P.* 31(372): 28-29, 32, 49-50, 55-56. Nov. 1948. 9 R326

21984 SUITER, J. Um den kartoffelsegen 1948. *Landw. Wchnbl.* 138: 261, 263. Sept. 18, 1948. 18 L2338

21985 TAYLOR, P. R. Fruit and vegetable program in 1948. *Nation's Agr.* 24(1): 10, 12. Jan. 1949. 280.82 B89

American Farm Bureau Federation.

21986 TELEKI, A. Die weinernte in der Sowjetunion. *Österr. Weintzg.* 3: 398. Dec. 4, 1948. 390.8 Os7

21987 VIÑAS, M. DE LAS. Importancia artística y laboral de la fiesta de la vendimia jerezana. *Siembra* 1948(8/9): 50-51. Aug./Sept. 1948. 15 Si1

#### Analysis and Composition

21988 CARLSON, R. E., and PYKE, W. E. The development of some new methods for the evaluation of the quality of potatoes. (Abs.) *Colo.-Wyo. Acad. Sci. J.* 3(6): 17. Sept. 1948. 500 C717



- 21989 DOESBURG, J. J., and ZWEEDE, A. K. Verslag van een onderzoek naar het oxaalzuur-, kalk-, vitamine C en drogestofgehalte van een aantal spinazie-selecties [Oxalic acid, calcium, ascorbic acid and dry matter content of some spinach strains]. Inst. v. Onderzoek op het Gebied van Verwerking van Fruit en Groenten. Overdruk 12: 12-25. 1948? 389.9 W12 Summary in English and French.
- 21990 FOURNIER, P. Les méthodes de dosage des constituants des membranes végétales. Soc. Sci. d'Hyg. Aliment. B. 36: 122-137. Ref. 1948. 389.9 S01B
- 21991 HELLER, V. G., and CROSS, F. B. The chemical content and nutritive value of Oklahoma pecans. Okla. Agr. Expt. Sta. Mimeog. C. M-176, 5 p. Dec. 1948. 100 Ok4M
- 21992 KRAMER, A. Asparagus: some objective quality tests. Asparagus B. 3, 1 p. Dec. 10, 1948. 280.39 T73
- 21993 NATARAJAN, C. P., and MACKINNEY, G. Carotenoid pigments of Valencia orange juice. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 119. Dec. 1948. 389.8 F94
- 21994 RAYNAUD, R. Points de vue sur les cerises et leurs transformations. Cahiers des Ingén. Agron. 3(37/38): 10-13. July/Aug. 1948. 14 C112 Chemical composition.
- 21995 RIOU, P., DORE, H. O., and HORMIDAS, FRÈRE. Essais d'analyse élémentaire sur les cendres de pois à soupe cuisants et non cuisants. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 78. 1948. 517 M76
- 21996 SPRUYT, J. P., and MAASSEN, B. The influence of oxydase (N) on the vitamin A content of fruit juices, salads, etc. (In Dutch.) Voeding 9: 183-185. Oct. 15, 1948. 389.8 V85
- 21997 UNDERWOOD, J. C., and KELLER, G. J. A method for measuring the consistency of tomato paste. Fruit Prod. J. & Amer. Food Mfr. 28: 103-105. Dec. 1948. 389.8 F94
- 21998 WASSERMAN, D., and DAWSON, C. R. Cashew nut shell liquid. III. The cardol component of Indian cashew nut shell liquid with reference to the liquid's vesicant activity. Amer. Chem. Soc. J. 70: 3675-3679. Nov. 1948. 381 Am33J
- Consumption and Utilization
- 21999 ARNOULD, C. Les marcs de raisin. Acclimatation 75: 231. Oct. 30, 1948. 14 Ac2 Utilization.
- 22000 CHRISTIE, F. Potato utilization study need cited. San Luis Val. Farmer & Stockman 3(4): 2. Dec. 1948. 6 Sa52
- 22001 FITCH, C. L. Potato flour as a means of disposing of surpluses. Iowa State Hort. Soc. Proc. 82: 287-290. 1948. 81 I09
- 22002 KARBE, E. Wohin mit zweitklassigem obst? Land u. Frau 28(3): 4. Aug. 21, 1948. 18 D482L Fruit juices.
- 22003 RODÓN, J. M. La industrialización de la bellota. Cult. Mod. 31: 376. Oct. 1948. 15 C89
- 22004 U. S. BUR. OF AGRICULTURAL ECONOMICS. People and potatoes. U. S. D. A. AIS 76, 8 p. Sept. 1948. 1 Ag84A1 Consumer preferences.
- 22005 ZANOTTI, F. Industrial utilization: citrus fruits. (In Italian.) Gior. di Agr. 58: 360. Dec. 19, 1948. 16 It1G
- Distribution, Marketing, and Transportation
- 22006 BRYANT, H. E. Let's look at the potato market. Amer. Agr. 145: 582. Nov. 6, 1948. 6 Am3
- 22007 CALIFORNIA ALMOND GROWERS EXCHANGE. General manager's annual report to the membership for the fiscal year ending June 30, 1948. Almond Facts 12(6): 1, 6-12. Nov./Dec. 1948. 280.28 AL62
- 22008 CALIFORNIA DATE ADVISORY BD. Annual report, marketing order for dates, 1947-48 season. Indio, 1948. 16 p. 280.2939 C124
- 22009 FRENCH, E. Developing a service program for fruits and vegetables. Natl. Assoc. Marketing Off. Proc. (1947)28: 34-37. 1948? 280.39 N213P
- 22010 GRAVES, T. H. Truck transportation of perishables; a Packer report. IV. Chicago territory. Packer 49(5): 1, 6. Jan. 1, 1949. 286.8 N483 Fruit and vegetables.
- 22011 GROWERS ADMINISTRATIVE COMMITTEE. Marketing policies-Florida citrus, 1948-49 season. n. p., 1948? various paging. 280.3939 Sh6F Shippers Advisory Committee, joint author.
- 22012 GUTHRIE, B. A. Truck transportation of perishables; a Packer report. III. Florida. Packer 49(4): 1, 6. Dec. 25, 1948. 286.8 N483
- 22013 HARVEY, E. M., ATROPS, E. P., and HRUS-CHKA, H. W. Transportation test with lemons from southern California to New York, August 1948. U. S. Bur. Plant Indus., Soils, and Agr. Engin. H. T. & S. Off. Rpt. 195, 40 p. Sept. 17, 1948. 1.9 P772Ht
- 22014 HOECKER, R. W. Current research on marketing of vegetables. Mkt. Growers J. 77(10): 15, 25, 27, 29. Oct. 1948. 6 M34
- 22015 HUNT, E. Washed potatoes sell for more money. Iowa State Hort. Soc. Proc. 82: 291-292. 1948. 81 I09 Includes notes by other growers.
- 22016 KITCHEN, C. W. More on the subject of rail rates. West. Grower & Shipper 20(1): 27, 38, 53, 56. Dec. 1948. 280.38 W52
- 22017 KITCHEN, C. W. Reviewing 1948, a way out of industry price squeeze. Fruit & Veg. Rev. 9(9): 13, 28, 32. Dec. 1948. 80 C1224 Lowering of marketing costs.
- 22018 LAVITT POTATO COMPANY. Taking speculation out of the onion business is our business. Rockville, Conn., 1948. 6 p.-folder. 280.391 L39 Futures.
- 22019 MANSFIELD, B. Truck transportation of perishables; a Packer report. II. Southern Territory. Packer 49(3): 1, 26. Dec. 18, 1948. 286.8 N483
- 22020 MASSAGUÉS, J. M. La intervención de las avellanas. Cult. Mod. 31: 365. Oct. 1948. 15 C89
- 22021 MONTGOMERY, J. A. New trends in fruit shipments. Calif. Fruit & Grape Grower 2(9): 22. Sept. 1948. 95.8 G762
- 22022 NAVARRE, P. Distribuons nos agrumes. Rev. Agr. de l'Afrique du Nord 46: 564-566. Nov. 12, 1948. 80 R32c
- 22023 NEW YORK FRUIT AUCTION CORPORATION. Facts about the world's largest fresh fruit and vegetable market. New York, 1948. 15 p. 280.3 N4828
- 22024 NOVA SCOTIA APPLE MARKETING BOARD, LTD. Statistical report and financial statement, 1947-1948. Kentville, 1948. 17 p. 280.3939 N85
- 22025 OOSTENBRINK, M. Seed potato distribution in Northern Ireland (Ulster). (In Dutch.) Friesch Landbouwsblad 45(43): 8. Oct. 22, 1948. 12 F91
- 22026 PECK, B. T. Produce markets of Connecticut. New England Homestead 121(20): 8-9. Oct. 23, 1948. 6 N442
- 22027 PLACENNER, J. Le problème commercial des agrumes de l'Afrique du Nord. Fructidor (n. s.) 14 (28): 1. Oct. 5, 1948. 286.83 F9423
- 22028 ROARK, J. Truck transportation of perishables; a Packer report. V. The West Coast. Packer 49(6): 1, 22. Jan. 8, 1949. 286.8 N483
- 22029 SCHÖBER, K. Hinweise für die speisekartoffellieferung. Wien. Bauernbündler 1(9): 3-4, 6. Aug. 21, 1948. 19 W632 Also in Pflug 1: 142-143. Sept. 1948. 19 P48
- 22030 THOMSEN, F. L. New developments in vegetable marketing. Washington, U. S. Prod. and Mktg. Admin., 1948. 7 p. 1.941 M1T38
- 22031 TIWARI, C. V. Co-operative marketing of vegetables. Indian Co-op. Rev. 14(1/2): 46-52. Jan./June 1948. 280.28 In2
- 22032 WOODS, B. Fruit and vegetable marketing. Rur. Bank N. S. Wales. Farm Front 6: 143-146. Sept. 1948. 281.9 R883
- Grading, Inspection, Standardization, and Quality
- 22033 ADAM, W. B., DOWSON, W. M., and MARSH, R. W. Effect of organic spray residues on canned blackcurrants. II. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 163-164. 84 B77
- 22034 AVENS, A. W. New insecticides and their effect on processed foods. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 110. Dec. 1948. 389.8 F94
- 22035 CAMERON, E. J. Flat sour spoilage in tomato juice. Tri-State Packers' Assoc. Tomato B. 12: 26-28. July 13, 1948. 280.39 T73T



22036 CUSHMAN, G. Table quality and per capita consumption of potatoes. Iowa State Hort. Soc. Proc. 82: 297-298. 1948. 81 Io9

22037 DU PLESSIS, S. J. Registration of vine nurseries. Farming So. Africa 23: 591-595. Sept. 1948. 24 So842

22038 FERNHOLM, H. Standardization of food potatoes. (In Swedish.) Lantmannen 32: 742. Nov. 6, 1948. 11 L234

22039 FLORIDA. DEPT. OF AGRICULTURE. CITRUS AND VEGETABLE INSPECTION DIVISION. 1947-48 season annual report. Winter Haven, 1948. 93 p. 280.3939 F66

22040 GRAHAM, W. E. Flat sour spoilage in tomato juice. Tri-State Packers' Assoc. Tomato B. 12: 21-26. July 13, 1948. 280.39 T73T

22041 HAAS, V. A., and others. Deterioration of dried fruits. I. The effect of sugars and of furfurals. Amer. Chem. Soc. J. 70: 3576-3570. Nov. 1948. 381 Am33J

E. R. Stadtman, F. H. Stadtman, and G. Mackinney, joint authors.

22042 HARDENBURG, E. V., and PRATT, A. J. Grading potatoes. N. Y. Agr. Col. Cornell Ext. B. 757, 4 p. Nov. 1948. 275.29 N48Ex

22043 PABLO PARDO, J. C. DE. Tipificación de hortalizas. Rev. Mens. B. A. P. 31(371): 67-68, 70-72. Oct. 1948. 9 R326

22044 PEDERSON, C. S., and BECKER, M. E. Flat sour spoilage of tomato juice. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 110. Dec. 1948. 389.8 F94

22045 PEDERSON, C. S. The relation between color and quality of food. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 111-112. Dec. 1948. 389.8 F94

22046 RASMUSSEN, M. P., and CHILDRESS, R. L. External grade defects found in potatoes purchased by consumers in New York City retail stores. N. Y. Agr. Col. Farm Econ. 164: 4232-4234. Nov. 1948. 280.8 C812

22047 STADTMAN, F. H. The chemical deterioration of dried fruit during storage. III. Chromatographic separation of carbonyl compounds as 2,4-dinitrophenylhydrazines. Amer. Chem. Soc. J. 70: 3583-3586. Nov. 1948. 381 Am33J

22048 WAHHAB, A. Deterioration of dried fruits. II. Identification of furfurals. Amer. Chem. Soc. J. 70: 3580-3582. Nov. 1948. 381 Am33J

22049 WIDIEZ, F. Considérations générales sur la normalisation des asperges. Terre Maroc. 20: 310-312. Nov. 1948. 24 T44

22050 ZWEEDE, A. K. Oxydatieve bruine verkleuringen bij vruchtenproducten. The origin of brown discolorations in fruit products. Inst. v. Onderzoek op het Gebied van Verwerking van Fruit en Groenten. Overdruk 8: 1-15. 1947? 389.9 W12

#### Packing and Packaging

22051 ANDERSON, M., and GRUNDHOFFER, S. Spiced canned peach packing requires special operation. West. Canner & Packer 40(13): 39-41. Dec. 1948. 286.83 W522

22052 COMPIN. Le conditionnement & l'emballage des fruits & légumes. Jard. de France (ser. 7) 2: 209-214. Sept./Oct. 1948. 86 So13

22053 CROSBY, J. Walnuts by the pound from new packaging plant. Calif. Farmer, South. Ed. 189: 500-501. Dec. 18, 1948. 6 C126A

Prepackaging plant of the California Walnut Growers Association.

22054 GILROY, P. E., and CHAMPION, F. A. Aluminium and fruit juices. Soc. Chem. Indus. J. 67: 407-410. Nov. 1948. 382 M31

22055 MCCOY, W. W. Report on W. G. A. Research Laboratory, Western Growers Association 23rd annual meeting. West. Grower & Shipper 20(1): 25, 62. Dec. 1948. 280.38 W52

Prepackaging of vegetables.

22056 MANLEY, H. Fungicidal impregnants. Chem. Prod. (n. s.) 12(1): 15-16. Dec. 1948. 382 C428

Wrappings for fruit.

22057 RIDLEY, G. B. Packaging walnuts for retail distribution. West. Canner & Packer 40(13): 44-46. Dec. 1948. 286.83 W522

22058 TITUS, H. Prepackaging moves toward the farm. Country Gent. 118(11): 22, 114. Nov. 1948. 6 C833

Fresh fruits and vegetables.

22059 VERT, H. Les emballages étrangers. Fructidor (n. s.) 14(28): 8. Oct. 5, 1948. 286.83 F9423

Fruit and vegetables.

#### Prices, Price Control, and Rationing

22060 MONZÓ COLL, A. La fijación de precios en la vendimia [Spain]. Agr. Levantino 14(167): 16. Oct. 1948. 15 Ag85

22061 RHODES, N. Jacksonville, Florida vegetable prices. For Sale, Want & Exch. B. 11(6): 1. Jan. 1, 1949. 280.38 F74

22062 TYSSER, H. F. Fruit prices in Britain on the decline. Farmer's Weekly [Bloemfontein] 55. Nov. 24, 1948. 24 F225

#### Processing and Storage

22063 ADAM, W. B., and DOWSON, W. M. Canning trials. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 167-171. 84 B77

Fruit.

22064 AUSTRALIAN DEPT. OF INFORMATION, SAN FRANCISCO. Australian canned pineapples earn dollars. West. Canner & Packer 40(13): 48-49. Dec. 1948. 286.83 W522

22065 BARKER, B. P. T. Science and cider making. Brit. Sci. News 2(13): 11-16. Nov. 13, 1948. 472 B77

22066 BEAR, E. M. Using clamp trucks in the small packing shed. Grower 30: 968-969. Dec. 4, 1948. 286.83 M34

Apples, chiefly.

22067 BEAUQUIER, C. Nous devons tous pouvoir manger du raisin naturel en janvier et février. Rev. Prat. du Froid 4(2): 33-35. Nov. 1948. 295.8 R323

Storage.

22068 BELGIUM. MINISTÈRE DES COLONIES. DIRECTION GÉNÉRALE DE L'AGRICULTURE ET DE L'ÉLEVAGE. Fabrication de bananes-figues et de cossettes de bananes, by N. Lazarides. Bruxelles, 1948. 75 p. 389.1 B415

22069 BILAND. La production des raisins secs. Voix des Colons 30(1476): 3. Nov. 1, 1948. 24 V85

22070 BLIN, H. Conservez des légumes pour consommer en hiver. Acclimatation 75: 235. Nov. 6, 1948. 14 Ac2

22071 BLIN, H. Pour conserver les endives et scaroles à consommer en hiver. Acclimatation 75: 217. Oct. 9, 1948. 14 Ac2

22072 BOVAY, E. La conservation des fruits en frigorifique sous atmosphères contrôlées. Rev. Romande d'Agr., de Vitic. et d'Arbor. 4: 71-72. Sept. 1948. 17 J82A

22073 BOVAY, E. Essais de conservation de raisins de table en frigorifique. Rev. Romande d'Agr., de Vitic. et d'Arbor. 4: 69-71. Sept. 1948. 17 J82A

22074 BREDOW-STECHOW. Anregungen für das einmieten von kartoffeln. Neue Mitt. f. die Landw. 3: 284. Sept. 21, 1948. 18 N39

22075 BUSH, R. Fruit for bottling. Amateur Gard. 65(3368): 16. Nov. 30, 1948. 80 Am13

22076 CHYC, E. Richtig konservieren! Herstellung der dunstkonserven und sonstige konservierungsarten. Pflug 1: 167-168. Oct. 1948. 19 P48

Fruit and vegetables.

22077 CHYC, E. Wirtschaftlich konservieren heisst haltbar einkochen und zucker sparen! Pflug 1: 149-150. Sept. 1948. 19 P48

Fruit.

22078 CRANG, A., JAMES, D. P., and STURDY, M. A comparison of the preserving qualities of certain varieties of rhubarb. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 225-233. 84 B77

22079 CRANG, A., JAMES, D., and STURDY, M. Domestic apple juice production. Progress report II. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 212-216. 84 B77

22080 CRANG, A., JAMES, D., and STURDY, M. Notes on an oven bottling method. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 221-224. 84 B77

Fruit.

22081 DAWSON, P. R. White starch made from sweetpotatoes by new process. U. S. Agr. Res. Admin. Res. Achvt. Sheet 110, 2 p. Oct. 1948. 1.98 R31

22082 DEINUM, H. Sago. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel IIa, p. 604-621. Ref. 's-Gravenhage, 1948. 37 H14L



- 22083 DIXSON, R. A. Concentration of fruit juices. *Fruit Ann.* (1947/48) 2: 153-159. 1947. 225 F943
- 22084 DUBOIS, R. Du fruitier familial aux installations frigorifiques. *Moisson* 4(164): 1, 3. Nov. 5, 1948. 14 M72
- 22085 ENGLISH, H. Disinfectant washes for the control of decay in apples and pears. (Abs.) *Phytopathology* 38: 914. Nov. 1948. 464.8 P56
- 22086 FAUCILLON, X. A propos de la conservation des fruits d'automne et d'hiver. *Acclimatation* 75: 241. Nov. 13, 1948. 14 Ac2
- 22087 FIDLER, J. C. Improved methods of storage of fruit. *Fruit Ann.* (1947/48) 2: 125-128. 1947. 225 F943
- 22088 FONDARD, L. Les germoirs cooperatifs à pommes de terre. *Bouches du Rhone Agr.* 21(991): 1-2. (To be cont.) Dec. 1, 1948. 14 B662
- 22089 GEUS, J. DE. Steaming of potatoes. (In *Friesian*.) *Friesch Landbouwblad* 45(45): 4. Nov. 5, 1948. 12 F91
- 22090 GODSTON, J., and HANIN, M. Fácil manera de elaborar conserva con la guayaba. *Cám. de Com. e Indus. de Tegucigalpa. B.* 2(21): 33-34. Aug. 1948. 287 T23
- 22091 GUYMON, J. F., and CASTOR, J. G. B. Formation of fusel oil during yeast fermentation of grape musts. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 117. Dec. 1948. 389.8 F94
- 22092 HAMMOND, A. E. Quick-freezing for the small grower. *Fruit, Flower & Veg. Trades' J.* 94: 702. Nov. 20, 1948. 80 F946
- 22093 HAND, D. B. Research on food processing. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 108. Dec. 1948. 389.8 F94
- 22094 HECKENBERGER. Gemüse-überwinterung. *Landw. Wchnbl.* 138: 353. Nov. 6, 1948. 18 L2338
- 22095 HEINICKE, Á. J. Improved varieties of vegetables and fruits for processing. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 111. Dec. 1948. 389.8 F94
- 22096 HERRINGTON, B. L. Training in food processing at Cornell for undergraduates. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 112. Dec. 1948. 389.8 F94
- 22097 HIELE, T. VAN. Results of the use of "Obstal" for preservation of fresh fruits. (In *Dutch*.) *Netherlands. Dir. van de Tuinbouw. Meded.* 11: 553-557. Sept. 1948. 86 N384  
English summary.
- 22098 HOLGATE, K. C. Calcium chloride in firming apples and tomatoes. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 109-110. Dec. 1948. 389.8 F94
- 22099 HOLGATE, K. C., MOYER, J. C., and PEDERSON, C. S. The use of ascorbic acid in preventing oxidative changes in apple juice. *Fruit Prod. J. & Amer. Food Mfr.* 28: 100-101, 112. Dec. 1948. 389.8 F94
- 22100 KNOTZINGER, O. Wintert euer gemüse richtig ein! *Nach der Arbeit* 21: 4-5. Oct. 12, 1948. 80 N11
- 22101 LAGARDE, J. La bonne conservation des plants de pomme de terre. *Acclimatation* 75: 205. (Concl.) Sept. 25, 1948. 14 Ac2
- 22102 LEE, F. A. Research on vegetables and fruits for freezing. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 110. Dec. 1948. 389.8 F94
- 22103 LERCH. Lagerung des spätobstes. *Deut. Landw. Presse* 71(5): 2. Sept. 4, 1948. 18 D482
- 22104 LUCKWILL, L. C. The effect of growth substances on the storage life of the apple varieties Allington Pippin and Edward VII. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 142-146. 84 B77
- 22105 LUCKWILL, L. C. A further experiment on the use of growth-substances to inhibit the sprouting of stored potatoes. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 137-142. 84 B77
- 22106 MACGREGOR, L. R. The dried fruits industry in Argentina. *Austral. Dried Fruits News* 24(4): 5. Aug. 1948. 286.83 Au72
- 22107 MALLEKOTE, L. Out storage cabbage. (In *Dutch*.) *Groenten en Fruit* 4: 280-281. Nov. 11, 1948. 80 G89  
Netherlands.
- 22108 MEYER, J. Electronics solves critical problem in continuous juice processing. *Fruit Prod. J. & Amer. Food Mfr.* 28: 106-107, 119. Dec. 1948. 389.8 F94
- 22109 MOEGLING. Das einmieten von kartoffeln. *Württemb. Wchnbl. f. Landw.* 115: 271. Oct. 2, 1948. 18 W96
- 22110 MONTHULE, P. Conservation du cidre. *Monit. Agr.* 1(48): 6. Dec. 12, 1948. 14 M744
- 22111 MOROCCO. SERVICE DE L'HORTICULTURE. MISSION HORTICOLE. Séchage solaire des figues et raisins. *Inst. Colon. de Marseille. Cahiers Colon. (n. s.)* 11: 360-362. Nov. 1948. 286.8 M35
- 22112 MORRIS, J. S., and GODFREY, G. H. A new method for ripening dates. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1139, 3 p. Nov. 27, 1948. 100 T31P
- 22113 MOYER, J. C. The blanching of peas prior to canning. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 110-111. Dec. 1948. 389.8 F94
- 22114 MOYER, J. C. Pilot plant equipment for processing fruits and vegetables. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 108-109. Dec. 1948. 389.8 F94
- 22115 MÜNSTER, J. Une meilleure conservation des pommes de terre de consommation par les hormones. *Rev. Romande d'Agr., de Vitic. et d'Arboriculture* 4: 89-90. Dec. 1948. 17 J82A
- 22116 NELSON, W. L. Training in food processing at Cornell for graduate students. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 112, 125. Dec. 1948. 389.8 F94
- 22117 NISHIKADO, Y., NAKAYAMA, T., and HIURA, U. Studies on the storage rot of sweet potatoes and their control. 1. (In *Japanese*.) *Ohara Inst. Agr. Res. Rpt.* 37(1): 18-19. June 1947. 22.5 N684
- 22118 NORTON, K. B. Decentralization of frozen strawberry production. *Quick Frozen Foods* 2(5): 43-45. Dec. 1948. 389.8 Q4
- 22119 OGAWA, K. Studies on the storage of fresh vegetables. 1. *Ohara Inst. Agr. Res. Rpt.* 37(3): 28-31. May 1948. 22.5 N684
- 22120 ONARAN, M. H. The technique of grape drying in Turkey. 2. *Austral. Dried Fruits News* 24(4): 6. Aug. 1948. 286.83 Au72
- 22121 PLATT, W. C. New method for processing frozen citrus concentrate. *West. Canner & Packer* 40 (13): 51-54. Dec. 1948. 286.83 W522
- 22122 RICHARD, H. Peeling potatoes with lye. *Wis Restaurateur* 15(12): 9, 26. (To be cont.) Dec. 1948. 389.9 W75
- 22123 ROBINSON, W. B. Chemical changes in canned foods during storage. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 112. Dec. 1948. 389.8 F94
- 22124 ROGERS, J. L. Quick-freezing and the fruit industry. *Fruit Ann.* (1947/48) 2: 134-136, 138-139. 1947. 225 F943
- 22125 ROSTOS, G. M. Notes on some aspects of the design of fruit cool stores. *Food Preserv. Q.* 8(2): 27-32. June 1948. 389.9 Au7F
- 22126 SAUER, J. Wie wintere ich mein gemüse ein? *Gartenjahr* 3: 170-171. Nov. 1948. 80 G1932
- 22127 SCHLEWSKI, and BUHSE. Neue wege der kartoffellagerung. *Saat u. Ernte* 3(10): 5. Oct. 1948. 18 Sa12
- 22128 SHEWELL-COOPER, W. E. Look over the vegetables in store. *Pop. Gard.* 50: 387. Dec. 11, 1948. 80 G1622
- 22129 SYKES, S. M. Quick freezing of fruits and vegetables in U.S.A. and Canada. *Agr. Gaz. N. S. Wales* 59: 464-468. (To be cont.) Sept. 1948. 23 N472  
Also in *Refrig. J.* 2: 768-771. Oct. 1948. 295.8 R255
- 22130 TALLEY, F. B. Research in new apple flavors. *Mfg. Confectioner* 28(12): 27-28. Dec. 1948. 389.8 M31  
Apple candy manufacture.
- 22131 U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. List of publications on cucumber pickling and salting of vegetables resulting from cooperative investigations at Raleigh, N. C., by the United States Department of Agriculture and North Carolina Agricultural Experiment Station, Sept. 1938-Jan. 1948. *U. S. Bur. Agr. and Indus. Chem. AIC-183*, 4 p. Mar. 1948. 1.932 A2Ag82
- 22132 VILLFORTH, F. Obstmostbereitung und -behandlung. *Württemb. Wchnbl. f. Landw.* 115: 263-264. Sept. 25, 1948. 18 W96
- 22133 WITTEK, K. Kartoffellagerung. *Saat u. Ernte* 2(11): 4. Nov. 1947. 18 Sa12



## Statistics

22134 GROWERS ADMINISTRATIVE COMMITTEE, LAKE LAND, FLA. Florida early & midseason oranges—frame count data. 22 p. 252.17 G91  
1945/46 and 1946/47 seasons included.

22135 U. S. BUR. OF AGRICULTURAL ECONOMICS. Apples; production by varieties, 1948, with comparisons. Washington, 1948. 9 p. 1.941 H8A5

## GRAIN AND GRAIN PRODUCTS

22136 ÅKERMAN, Å. Combine threshing. Drying and storage of commodity threshed. (In Swedish.) Lantmannen 32: 787-788. Nov. 27, 1948. 11 L234

22137 ÅKERMAN, A. Consequences of combine threshing. (In Swedish.) Lantmannen 32: 805, 810. Dec. 4, 1948. 11 L234

Grain quality.

22138 ÅKERMAN, Å., LINDBERG, J. E., and AUGUSTIN, S. Investigations of quality of the 1947 bread grain crop. (In Swedish.) Sveriges Utsädesför. Tidskr. 58: 201-228. 1948. 61.9 Sv23

22139 ALBERTARIO, P. Fix the price of 1949 grain [Italy]? (In Italian.) Gior. di Agr. 58: 283-284. Oct. 17, 1948. 16 H1G

22140 ANDERSON, J. A., and HLYNKA, K. The quality of western Canadian barley 1948 crop. Canada. Grain Res. Lab. Crop B. 31, 23 p. Nov. 1948. 59.9 C161Qu

22141 ASSOCIAZIONE GRANARIA DI MILANO. Annuario [Year book] 1948. Milan, 1948? 78 p. 286.3599 M582

22142 BELL, E. J. This is cake county. East. Oreg. Wheat League. Proc. (1947)20: 89, 91, 93, 95, 97. 1948. 59.9 Ea73

Type of wheat grown in Oregon.

22143 BENEDIKTOV, I. We shall deliver more grain for the fatherland. (In Russian.) Molod. Kolkhoz. 15(8): 2. Aug. 1948. 110 M73

22144 BERGNER. Zur beurteilung des rohfasergehaltes von getreideerzeugnissen. Getreide, Mehl u. Brot 2: 141-143. Ref. Sept. 1948. 298.8 G33

22145 BERLINER, E. Die qualität der aus den USA nach Deutschland importierten USA-weizen. Getreide, Mehl u. Brot 2: 145-147. Sept. 1948. 298.8 G33

22146 BIECHY, T., and SPINDLER. "Weizenkleber" für den müller beschrieben. Mühlen-Ztg. 2: 193-194. Nov. 20, 1948. 298.8 M893

22147 BISHOP, L. R. The prediction of extract. IV. The adjustment of prediction to give true extract in malt. Inst. Brewing. J. 54: 330-333. Nov./Dec. 1948. 390.9 In7

22148 BÖH, J. Was fordert der mittel- und kleinmüller von seiner berufsständischen vertretung? Mühlen-Ztg. 2: 191. Nov. 20, 1948. 298.8 M893

22149 BOMBAY. DEPT. OF AGRICULTURE. Final forecast of the rabi jowar crop (for grain) of the Bombay Province only for the season 1946-47. Poona, 1947. 4 p. 59.9 In25J

22150 BOMBAY. DEPT. OF AGRICULTURE. Final memorandum on the kodra crop of the Bombay Province (British Districts only) for the season 1946-47. Poona, 1947. 3 p. 59.9 B637Mk

22151 BOMBAY. DEPT. OF AGRICULTURE. Final memorandum on the ragi crop of the Bombay Province for the season 1947-48. Poona, 1948. 3 p. 59.9 B637Mr

22152 BOTTAZZI, A., and PORCELLINI, A. Wheat productivity. (In Italian.) Avvenire Agr. 56: 178-180. Aug. 1948. 16 Av9

22153 BOWDEN, R. B. New patterns in the grain trade. Feed Bag 24(12): 67-68, 70. Dec. 1948. 389.78 F32

22154 BREESE, M. H. The storage of maize and pulse crops. 1. Nyasaland Agr. Q. J. 7: 55-58. July 1948. 24 N983

22155 BRIZI, A. Italian grain production and the world economy. (In Italian.) Riv. di Econ. Agr. 3: 422-431. 1948. 281.8 R52

English summary, p. 431.

22156 BRUNINI, V. C. El área sembrada con cereales y con oleaginosos en el año agrícola 1947-48 [Argentina]. Cooperación (ser. 2) 16(1041): 3. Oct. 22, 1948. 280.28 C7876

22157 BUITER, G., and WEIGLE, R. N. Big corn crop means more hogs in 1949. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1948: 1-2. Nov. 20, 1948. 275.29 In2En

22158 BURE, J. Altérations des grains au cours du stockage. Meun. Franç. 28: 30-36. Ref. Oct. 1948. 298.8 M57

22159 BURE, J., and DELAROUZÉE, G. Dosage des matières grasses dans les produits farineux ayant subi une cuisson. Ann. des Falsif. 41: 369-375. July/Sept. 1948. 389.8 An72

22160 CASALE BUONCONTO, B. Influence of barley flour added to wheat flour on some physical characters of bread dough. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 469-479. 1948. 16 An76

English summary.

22161 CATALINA, L. Trigo, alfalfa y silos. Cult. Mod. 31: 376. Oct. 1948. 15 C89

22162 CLEVE, H. Die rolle des weizenkeimes in den mahlprodukten. Getreide, Mehl u. Brot 2: 191-194. Nov. 1948. 298.8 G33

22163 COOK, F. T. South Africa removes restrictions on milling and sale of flour and meal. Foreign Trade 4: 1269-1270. Dec. 18, 1948. 286.8 C162

22164 COREY, E. C. The facts about Pacific northwest wheat, the products made from it, and where these products are sold. East. Oreg. Wheat League. Proc. (1947)20: 59, 61, 63, 65, 67. 1948. 59.9 Ea73

22165 COSTA, D., and COSTA, G. Pyrolytic modifications of wheat. (In Italian.) Ann. di Chim. Appl. 38: 531-551. Sept. 1948. 385 An7

22166 CRAWFORD, W. A commercial milling test of Alicel-Rex (Pa-80). East. Oreg. Wheat League. Proc. (1947)20: 115, 117, 119, 121, 123, 125, 127. 1948. 59.9 Ea73

22167 DEWEZ, W. J. Use of grain straw on the farm and the demand for straw in that connection. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandlb. 5: 309-316. July 1948. 12 N383M

22168 DRAGHETTI, A. Fundamental problem: produce much grain. (In Italian.) Gior. di Agr. 58: 355. Dec. 19, 1948. 16 H1G

Italy.

22169 DRÄSSLER, W. Praktische und billige holzsilos für mittlere mühlen. Mühlen-Ztg. 2: 196-197. Nov. 20, 1948. 298.8 M893

22170 EAST, L. P. Popcorn supplements farmers' income. Peanut J. & Nut World 28(3): 38. Jan. 7, 1949. 77.8 P313

22171 EASTERN OREGON WHEAT LEAGUE. Proceedings of the twentieth annual meeting, Dec. 4, 5 and 6, 1947. Corvallis, 1948. 172 p. 59.9 Ea73

22172 ECKARDT. Das nachwuchsproblem in mülerei und mühlenbau. Mühlen-Ztg. 2: 136. Sept. 25, 1948. 298.8 M893

22173 EGYPT. MINISTRY OF AGRICULTURE. Adequacy of grain supply during war and after. Cairo, Govt. Press, 1948. 15 p. 281.192 Eg9A

22174 ESPIGULE PUIG, J. Fabricación de harinas. Ceres 13(147): 21-22. Sept. 1, 1948. 15 C33

22175 EVANS, SANFORD, STATISTICAL SERVICE. Wheat yield by towns, 1948; storage capacity by towns, volume and value by crop districts. Winnipeg, Canada, 1948. 29 p. 281.3939 Ev1

Statistics.

22176 FARMERS UNION GRAIN TERMINAL ASSOCIATION. Eleventh annual report 1948. n. p., 1948. 63 p. 280.2599 F222

22177 FINNIE, D. N. Bulk transportation and pneumatic handling of flour. Assoc. Operative Millers. B. 1948: 1712-1717. Dec. 1948. 298.9 As7

22178 FOURNIER, P. Valeur des résultats fournis, sur le son de blé, par différentes méthodes de dosage des constituants des membranes. Paris. Acad. des Sci. Compt. Rend. 227: 910-912. Nov. 3, 1948. 505 P21

22179 FRANCHET, A. L'administration ne veut pas entendre parler du blé d'Égypte—mais les chiffres semblent lui donner tort. Foyer Rur. [Paris] 11(56): 4. Nov. 21, 1948. 14 F83

22180 GEOGRAPHY and wheat. 1. Food & Nutr. 3(11): 9-14. Nov. 19, 1948. 389.9 G79F

British wheat trade history.

22181 GIROUY, G. Les germes de blé. Agriculture [Paris] 12: 359-360. Nov. 1948. 14 Ag823



- 22182 GÖPP, K. Wachstumsbedingungen und entwicklung der diesjährigen gerste [Germany]. Brauwelt 21: 421-424. Oct. 7, 1948. 390.9 B732
- 22183 GORI, C. Peaches or grain? (In Italian.) Terra [Firenze] 59(38): 3. Sept. 19, 1948. 16 T274
- 22184 GRAHAM, S. G. Flour proteins. Australasian Baker 51(620): 11, 13, 15, 17, 19, 21. Oct. 1948. 298.8 Au7
- 22185 HACHMANN, W. Verarbeitung von milo-corn in schäl-mühlen. Getreide, Mehl u. Brot 2: 138-139. Sept. 1948. 298.8 G33
- 22186 HACHMANN, W. Verarbeitung von milo-corn in schäl-mühlen (nachtrag). Getreide, Mehl u. Brot 2: 167-169. Oct. 1948. 298.8 G33
- 22187 HECKE, P. Die abrechnung der maiskeime. Mühlen-Ztg. 2: 152-153. Oct. 9, 1948. 298.8 M893
- 22188 HOPF, L. Die internationalen neuerungen auf dem gebiet des mühlenbaues und der müllerei während und nach dem krieg. Getreide, Mehl u. Brot 2: 188-190. Nov. 1948. 298.8 G33
- 22189 JACOBSEN, A. P. The grain crop 1948. (In Danish.) Andelsbladet 49: 1361. Nov. 11, 1948. 280.28 An2
- Denmark.
- 22190 JAUMES, L. La situation céréalière et l'élevage dans les Bouches-du-Rhône. Bouches du Rhone Agr. 21(992): 1-2. Dec. 15, 1948. 14 B662
- 22191 JONES, C. R. The conditioning of wheat; the manner of entry of water into the wheat grain. Milling 111: 536-537. Dec. 4, 1948. 298.8 M622
- Discussion, p. 537.
- 22192 KAIHARA, H., and YAMAMOTO, J. On the relation of drying by heat at harvest time and the storage of wheat. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 10-11. June 1947. 22.5 N684
- 22193 KELLY, H. E., and BREMNER, T. S. Observations on malt analysis technique. Inst. Brewing. J. 54: 320-329. Nov./Dec. 1948. 390.9 In7
- 22194 KLEE, L., SAIR, L., and HALL, L. A. A simplified determination of the cold water absorptive capacity of pregelatinized flours. Cereal Chem. 25: 362-364. Sept. 1948. 59.8 C33
- 22195 KONDO, M., and KAIHARA, H. Comparative studies on the storage-tolerance of corn, wheat, barley, and rice grains. Ohara Inst. Agr. Res. Rpt. 37(3): 31-33. May 1948. 22.5 N684
- 22196 KONDO, M., and KASAHARA, Y. Low temperature storage of hulled rice for 11 years. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 38-40. June 1947. 22.5 N684
- 22197 KONDO, M., KASAHARA, Y., and AKITA, S. On the qualities of hulled rice stored for 15 years under hermetically sealed condition. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 1-2. June 1947. 22.5 N684
- 22198 KONDO, M., KAIHARA, H., and YAMAMOTO, J. Studies on the qualities of an old unhulled glutinous rice stored since 1870. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 2-4. June 1947. 22.5 N684
- 22199 KUTISH, F. A. The problem on hand: how to figure the new grain support prices. Co-op Grain Q. 6(3): 19-20. Winter 1948. 280.28 C7898
- 22200 LOIBL. Saatgutwechsel steigert die brotgetreide-ernte. Oberösterr. Landwirtschaftsztg. 20(35): 1-2. Aug. 25, 1948. 19 Ob23
- 22201 MACLEOD, W. A. Canada steps up its wheat pools. Co-op Grain Q. 6(3): 45-48. Winter 1948. 280.28 C7898
- 22202 MCNEAL, C. D. What's ahead for wheat and flour. Northwest. Miller 236(13): 22-23, 28-29, 32. Dec. 28, 1948. 298.8 N81
- 22203 MAGUIRE, E. H. Bread grain production in Chile particularly good this year. Foreign Trade 4: 1246-1249. Dec. 18, 1948. 286.8 C162
- 22204 MARTI CATALA, J. Técnica teórica y técnica práctica. Ceres [Valladolid] 12(148): 19-21. Oct. 1, 1948. 15 C33
- Milling.
- 22205 MARTIN, Y. Où en est-on en matière de production du blé. Avenir Paysan de la Haute-Marne 4(76): 1. Nov. 5, 1948. 14 Av3
- 22206 MATTE, J. La consommation du blé et du pain. Nord Agr. 5(5): 2. Dec. 4, 1948. 14 N75
- 22207 MENZEL, O. Erfahrungen mit der zweizeiligen wintergerste. Brauwelt 18: 361-363. Sept. 2, 1948. 290.8 B732
- 22208 MULLER, W. Flour starch. Australasian Baker 51(620): 25-26, 29, 31, 33, 35, 37, 39. Oct. 1948. 298.8 Au7
- 22209 NEITZERT, K. Anwendungsmöglichkeiten der Warburg-apparatur in der getreidechemie. Getreide, Mehl u. Brot 2: 143. Ref. Sept. 1948. 298.8 G33
- 22210 NOLLET, P. Le blé, problème d'hier et d'aujourd'hui [France]. Acclimatation 75: 229. Oct. 30, 1948. 14 Ac2
- 22211 OCHOA, G. D. Storehouses for wheat [Brazil]. (In Portuguese.) Vida Rur. e Econ. 10(1): 10-11. July 31, 1948. 9.2 V662
- 22212 OLIVA, A. With bread for all. (In Italian.) Humus 4(9): 3-4. Sept. 1948. 16 H88
- The Italian wheat situation.
- 22213 OLSEN, W. Getreidelagerung im Hamburger hafen. Ernährungsdienst 3(59): 4-5. Nov. 22, 1948. 389.8 Er62
- 22214 PAGANI, A. Rice associations. (In Italian.) Voce dei Campi 3(29): 1. Nov. 10, 1948. 16 V852
- 22215 PELSSENKE, P. 50 jahre getreideforschung. Getreide, Mehl u. Brot 2: 184-187. Nov. 1948. 298.8 G33
- 22216 PELSSENKE, P., and DREWS, E. Untersuchungen an gersten- und milo-schleifmehlen. Getreide, Mehl u. Brot 2: 135-138. Sept. 1948. 298.8 G33
- 22217 PENROSE, G. Union Pacific and wheat and agriculture. East. Oreg. Wheat League. Proc. (1947)26: 105, 107, 109, 111, 113. 1948. 59.9 Ea73
- 22218 PERU. MINISTERIO DE AGRICULTURA. DIRECCIÓN DE ECONOMÍA AGRARIA. DEPARTAMENTO DE ESTADÍSTICA AGROPECUARIA. Estadística de la producción de arroz en el Perú correspondiente a los años 1944, 1945 y 1946. Lima, 1948. 89 p. 255.8 Ag8Ea
- 22219 PERU. MINISTERIO DE AGRICULTURA. DIRECCIÓN DE ECONOMÍA AGROPECUARIA. DEPARTAMENTO DE ESTADÍSTICA AGROPECUARIA. Estadística de la producción de trigo en el Perú correspondiente a los años 1944, 1945 y 1946. Lima, 1948. 211 p. 255.8 Ag8Et
- 22220 PICARD, A. J. Pour la culture du blé. Agr. Charentais 3(9): 1. Oct. 1948. 14 Ag825
- 22221 PIRRIE, P. A new method of handling flour. Bakers Weekly 140(12): 54-56. Dec. 20, 1948. 389.8 B172
- 22222 POMPEI, M. Grain supremacy [Italy]. (In Italian.) Gior. di Agr. 58: 279. Oct. 10, 1948. 16 It1G
- 22223 POVEY, D. Continental milling systems outlined. Miller 79: 1053-1054. Nov. 29, 1948. 298.8 M61
- 22224 PRAETORIUS. Eine nüchterne betrachtung zur gesetzlichen regelung der gerstenzuteilung. Brauwelt 1948: 504-506. Nov. 11, 1948. 390.8 B732
- Germany.
- 22225 PROVAGLIO, G. The new grain campaign [Italy]. (In Italian.) Agr. Bresciana 1(39): 2. Sept. 29, 1948. 16 Ag89
- 22226 PRÜFERT, A. Hungern oder sattsein? Ernährungsdienst 3(59): 2. Nov. 22, 1948. 389.8 Er62
- German grain outlook.
- 22227 RAO, T. S. Food policy in India; a review of the final report of the Food Grains Policy Committee. Reserve Bank India. B. 2: 501-503. Aug. 1948. 284.9 R31B
- 22228 REA CLAVIJO, J. Prueba experimental de panificación en quinoa. Campo [La Paz] 2(18): 47-51. Oct. 1948. 9.1 C15
- 22229 RIST, C. E. Batter process makes wheat flour source of starch and gluten. U. S. Res. Admin. Res. Achvt. Sheet 113, 2 p. Nov. 1948. 1.98 R31
- 22230 RITZ, O., & CO. 15 doppel-mahlversuche. Getreide, Mehl u. Brot 2: 144-145. Sept. 1948. 298.8 G33
- 22231 RUSSELL, R. S. Government bulk buying [Canada]. Weekly Mkt. News & Mod. Farmer 26(49): 2, (51): 2; (52/53): 11, 13. (Cont.) Dec. 2, 16, 23, 1948. 286.81 G762A
- Rice and corn.
- 22232 SANCHEZ BUENO, R. J. Almacenaje y conservación de los cereales. Ceres [Valladolid] 12(148): 32. Oct. 1, 1948. 15 C33
- 22233 SANTA MARIA P., R. Ontogenia y morfología del maíz. Chapingo 25: 112-114, 136. (Cont.) Sept. 1948. 102 C36



22234 SANTURIO, J. El problema del maíz. Cuba Econ. y Financiera 23(272): 43. Nov. 1948. 286.8 C892

22235 SCHAFFRANEK, F. Lagerung des getreides im silo mit zellenlüftung. Mühlen-Ztg. 2: 154-155. Oct. 9, 1948. 298.8 M893

22236 SCHOLZ, L. Brot aus eigenem garten? Unser Hof 1948: 103-105. 18 Un72  
Grain production policy for Germany.

22237 SCHORK, H. Die neuen typen und mehlpreise. Mühlen-Ztg. 2(22): 163-164. Oct. 23, 1948. 298.8 M893

22238 SCHULZ, A. Über neue brotkrankheiten durch kreide- und hopfenschimmel. Getreide, Mehl u. Brot 2: 153-157. Oct. 1948. 298.8 G33

22239 SKALKA. 80 Jahre Verein der Getreidehändler der Hamburger Börse: die geschichte des Vereins. Ernährungsdienst 3(59): 3. Nov. 22, 1948. 389.8 Er62

22240 SODER, K. S. Grain co-ops learn telling is selling. Co-op Grain Q. 6(3): 55-58. Winter 1948. 280.28 C7898

22241 SORENSON, J. W., JR., DAVIS, W. C., and HOLLINGSWORTH, J. P. Drying rice in sacks. Tex. Agr. Expt. Sta. Prog. Rpt. 1138, 4 p. Nov. 22, 1948. 100 T31P

22242 SYDOW, O. Das hektolitergewicht. Mühlen-Ztg. 2: 137-141. Sept. 25, 1948. 298.8 M893  
Grain.

22243 SYDOW, O. Müllersorgen [Germany]. Mühlen-Ztg. 2: 148-149. Oct. 9, 1948. 298.8 M893

22244 SYDOW, O. Wassergehalte und hektolitergewichte der neuen ernte. Mühlen-Ztg. 2(22): 166-167. Oct. 23, 1948. 298.8 M893

22245 SZÉGO, E. Une grande industrie peu connue: l'amidon de maïs. Indus. Agr. et Aliment. 65: 237-242. July/Sept. 1948. 383 As7  
Summary in German, Spanish, and Italian.

22246 THOMPSON, H. L. The 1948 barley crop. Inst. Brewing. J. 54: 299-303. Nov./Dec. 1948. 390.9 In7  
Discussion, p. 303-304.

22247 TICÓ, L. El problema del trigo [Spain]. Cult. Mod. 31: 370-372. Oct. 1948. 15 C89

22248 UNITED PROVINCES. DEPT. OF AGRICULTURE. Final forecast of the ragi (mandua) crop for the year 1947-48. Lucknow, 1948. 2 p. 59.9 Un33Fr

22249 U. S. EXTENSION SERV. Corn and grain sorghum summary for the crop year beginning October 1947. Chicago, 1948. 5 p. 1.913 A3C81  
U. S. Production and Marketing Administration cooperating.  
Statistical summary.

22250 VAN LANEN, J. M., and others. Influence of proteolytic enzymes and yeast nutrients upon the requirement for malt in grain alcohol fermentations. Cereal Chem. 25: 326-336. Ref. Sept. 1948. 59.8 C33

22251 VEER, K. VAN DER. Corn. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel IIa, p. 111-156. 's-Gravenhage, 1948. 37 H14L

22252 VEER, K. VAN DER, KUILMAN, L. W., and MEULEN, J. J. G. VAN DER. Rice. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel IIa, p. 7-110. Ref. 's-Gravenhage, 1948. 37 H14L

22253 VEER, K. VAN DER. Sorghum. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel IIa, p. 157-162. 's-Gravenhage, 1948. 37 H14L

22254 VINACKE, W. R., RADEMAKER, J. A., and CHAVE, M. Consumer acceptance of different kinds of rice. (Abs.) Hawaiian Acad. Sci. Proc. (1947/48)23: 4-5. 1948. 500 H31A

22255 VOGT, R. Organische mehlpreise! Ernährungsdienst 3(62/63): 2. Dec. 2, 1948. 389.8 Er62  
Germany.

22256 VOLANTI, U. The grain battle. (In Italian.) Agr. Bresciana 1(40): 1. Oct. 6, 1948. 16 Ag89

22257 WAGNER, J. Automatische kleinemühle. Mühlen-Ztg. 2: 136. Sept. 25, 1948. 298.8 M893

22258 WAGNER, J. Nochmals "vollautomatische kleinemühle." Mühlen-Ztg. 2(22): 167. Oct. 23, 1948. 298.8 M893

22259 WAGONER, J. A. Microscopical observations and procedures used in a study of industrial corn steeping. Cereal Chem. 25: 354-361. Sept. 1948. 59.8 C33

22260 WALDEN, C. C., and LARMOUR, R. K. Relationship of diastatic activity to flour strength. Cereal Chem. 25: 346-354. Ref. Sept. 1948. 59.8 C33

22261 WECK, G. Sichtung. Mühlen-Ztg. 2: 175-176. Nov. 6, 1948. 298.8 M893

22262 WINDISCH, F. Verbesserungsvorschläge zu den attestierungs-vorschriften für besonders qualifizierte braugersten. Brauwelt 1948(1): 4-6. Jan. 8, 1948. 390.8 B732

22263 WINTERS, S. R. Wheat straw conversion. Amer. Miller & Processor 76(12): 30, 34, 37. Dec. 1948. 298.8 Am32

## HONEY AND BEESWAX

22264 MEDICI, M. Formas de preparar la miel.

Rev. Mens. B. A. P. 31(371): 14-15. Oct. 1948. 9 R326

22265 TONTZ, C. Selling honey. Good Earth Mag. 3(1/2): 11-12. Nov./Dec. 1948. 6 G59

## LIVESTOCK AND LIVESTOCK PRODUCTS

22266 AABERG, H. C. Livestock Department [of American Farm Bureau Federation] in 1948. Nation's Agr. 24(1): 13. Jan. 1949. 280.82 B89

22267 ALWYN-SCHMIDT, W. Is fur farming a safe investment? Black Fox Mag. 32(7): 19-20, 41-42. Nov. 1948. 410 B56

22268 ARWIDSSON, E. Livestock industry in Norrbotten Province. (In Swedish.) Skand. Kreatursförsäkringsbolaget. Månadsblad 26: 109-113. Nov. 1948. 49.9 Sk1

22269 BARTLETT, A. Are sheep on the way out? Country Gent. 118(11): 18, 78-80. Nov. 1948. 6 C833

22270 BLANCO BLANCO, A. Criterio práctico con que debe modificarse la actual política estatal de fomento de la carne y de la leche [Chile]. Agr. Austral 14: 7347-7348. Sept. 1948. 9.3 Ag842

22271 BLOCK, A. Probleme der viehwirtschaft in Niedersachsen. Deut. Viehhandel 3(13): 2. July 1948. 49 D482

22272 BREIMYER, H. F. Meat animals: 1949. Mont. Stockgrower 20(12): 23. Dec. 15, 1948. 49 M76

22273 CHILDRESS, G. L. Developing facts on industry trends. Meat 30: 27. Dec. 1948. 286.85 M464

22274 COMBREDT, G. Il faut savoir choisir une politique de la viande. Monit. Agr. 1(48): 6. Dec. 12, 1948. 14 M744  
France.

22275 CONGRESO GANADERO DE LA ZONA AUSTRAL. 2D. Conclusiones. Agr. Austral 14: 7321-7331. Sept. 1948. 9.3 Ag842

22276 CONWAY, H. M. All supplies of meat to decrease sharply in next three months. Natl. Live Stock Prod. 27(4): 9. Jan. 1949. 280.38 N21

22277 CONWAY, H. M. What's ahead for cattle. Mont. Stockgrower 20(11): 30. Nov. 15, 1948. 49 M76

22278 COOK, O. M. Chinchilla industry in infancy; Idaho breeder predicts much future expansion. Fur Farming J. 2(1): 6-7. July/Aug. 1948. 45.8 K142

22279 CRAPSE, J. L. More sheep for South Carolina agriculture. Agrarian 8(1): 11. Nov. 1948. 276.8 Ag8

22280 DEMEIJ, A. L'avenir de notre élevage [Belgium]. Rev. de l'Agr. 1: 749-752. Sept./Oct. 1948. 13 R322

22281 DURAND, P. Lait ou viande? Terre d'Oc 30: 439. Oct. 1948. 14 Ar5

22282 EGGERT, R. J. Cattle and calf slaughter outlook. Shoe & Leather Rptr. 252(13): 104-111. Dec. 25, 1948. 303.8 Sh7

22283 ETIGNY, J. D'. Para una mejor política ganadera [Chile]. Agr. Austral 14: 7338-7341. Sept. 1948. 9.3 Ag842

22284 FERRIOLS, V. Rehabilitating our animal industry. Philippine Livestock Mag. 1: 6-7, 32. Nov. 1947. 49 P53

22285 FRENCH, H. W. One thing dopesters agree on: continued good meat demand. Amer. Cattle Prod. 30(7): 16, 18. Dec. 1948. 49 P94

22286 FRENCH, M. H. East African hides and skins industry. Leather Trades' Rev. 90: 311-312. Nov. 17, 1948. 303.8 L48



- 22287 GARNER, F. T. Raising South American chinchillas. VII. Does chinchilla fur wear? *Small Stock Mag.* 33(1): 14. Jan. 1949. 48.8 P442
- 22288 GATES, P. W. Cattle kings in the Prairies. *Miss. Val. Hist. Rev.* 35: 379-412. Dec. 1948. 134.8 M69
- 22289 GIBSON, C. H. Los ovinos en Australia y Nueva Zelandia. *Rev. Mens. Ilus. B. A. P.* 31(372): 44-46. Nov. 1948. 9 R326
- 22290 GRAEF, R. A. Some facts to help chinchilla buyers. *Amer. Small Stock Farmer* 33(3): 20. Dec. 1948. 48.8 J82
- 22291 HARDENBERGH, W. The lowdown on the meat outlook. *Natl. Grocers B.* 35(12): 62-63, 96. Dec. 1948. 286.83 N214
- 22292 HECHENLEITNER W., A. Valor ganadero de las zonas pre-cordilleranas [Chile]. *Agr. Austral* 14: 7356-7357. Sept. 1948. 9.3 Ag842
- 22293 HINKHOUSE, F. W. "The business I love." What is it? Producing high-quality beef! *Amer. Hereford J.* 39(17): 118, 120, 122. Jan. 1, 1949. 43.8 Am32
- 22294 HOBSON, K., and CAGLE, A. Livestock outlook is a bright spot in the future of Northwest agriculture. *West. Livestock Rptr.* 9(20): 4, 62-63. Jan. 5, 1949. 286.85 W523
- 22295 HUITEMA, H. Short report on the investigation of the possibilities for animal husbandry on New Guinea. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 183-201. Ref. Sept. 1948. 41.8 V51  
English summary.
- 22296 IZQUIERDO. Ganaderia vizcaina. *Cooperación* 7(78): 12-13. Aug. 1948. 280.28 C7875
- 22297 JORGE, A. DE S. The cattle industry in Mato Grosso. (In Portuguese.) *Rev. dos Criadores* 18(12): 35-36. Dec. 1947. 43.8 R32
- 22298 LANGENFELD, A. L. The fur farmer and his National Board—financially speaking. *Amer. Fur Breeder* 21(6): 36, 38. Dec. 1948. 410 Am33
- 22299 LIEWALD, G. El problema de la carne [Chile]. *Agr. Austral* 14: 7358-7361. Sept. 1948. 9.3 Ag842
- 22300 LORTHOLARY, P. Normalisation du marché du bétail et de la viande. *Terre d'Oc* 30: 446-449. Oct. 1948. 14 Ar5
- 22301 MALBRANT, R. Le développement de l'élevage in Afrique noire. *Monit. Agr.* 1(37): 18. Sept. 26, 1948. 14 M744
- 22302 MARZULLO, D. E. Swine farming as an adjunct to the dairy industry. (In Portuguese.) *Granja* 3(35): 51-52. (To be cont.) Aug. 1948. 8 G762
- 22303 MAUNDER, J. C. J. The beef cattle industry in the far West. *Queensland Agr. J.* 67: 165-177. (Cont.) Sept. 1948. 23 Q33
- 22304 PAPERT, R. Long haired furs—"their return to fashion would help the industry." *Black Fox Mag.* 32(7): 23, 38-39. Nov. 1948. 410 B56
- 22305 PARVIN, F. W. Outlook for 1949 not bad, says expert. *Fla. Cattleman* 13(3): 41, 43. Dec. 1948. 43.8 F66  
Livestock and livestock products.
- 22306 PIEDRA, M. J. La verdad sobre el problema de la carne [Cuba]. *Tierra Libre* 12(11): 16; (12): 6. Nov.-Dec. 1948. 8 T443
- 22307 PROULX, J. R. L'élevage des animaux à fourrure dans le Québec. *Pelleteries du Québec* 13 i. e. 14(11): 3, 14, 16, 18, 23. Sept./Oct. 1948. 412.628 P36
- 22308 PROULX, J. R. Les éleveurs d'animaux à fourrure traversent une période difficile dont on n'entrevoit pas la fin. *Terre de Chez Nous* 21(11): 20. Dec. 8, 1948. 7 T27  
Canada.
- 22309 RAU, G. Das problem der pferdezucht unter den heutigen verhältnissen. *Züchtungskunde* 20: 97-116. Aug. 1948. 49 Z8  
Germany.
- 22310 REED, H. E. Changes in our livestock economy. *Washington, U. S. Prod. and Mktg. Admin.*, 1948. 6 p. 1.9422 L2R25
- 22311 REESE, E. A. Livestock and slaughter outlook in foreign countries. *Shoe & Leather Rptr.* 252(10): 62-65; (13): 100-103. Dec. 4, 25, 1948. 303.8 Sh7
- 22312 RISOPATRÓN, D. Importancia nacional de la ganaderia [Chile]. *Agr. Austral* 14: 7333-7338. Sept. 1948. 9.3-Ag842
- 22313 RIVERA, C. A. Proyecto de repoblación de las regiones ganaderas productoras de leche afectadas por la fiebre aftosa con vacas de alto registro. *Chapingo* 24: 88-91. Aug. 1948. 102 C36
- 22314 ROF CODINA, J. I. Congreso Veterinario de Zootecnia. Balearic Isl. Diputación Prov. B. de Agr. 39: 3-5. Dec. 1947. 15 B19
- 22315 SAMSON, R. Les cercles des jeunes éleveurs. *Terre de Chez Nous* 21(11): 9-10. Dec. 8, 1948. 7 T27
- 22316 SAN MIGUEL, J. Abastecimiento de carne para las grandes ciudades [Chile]. *Agr. Austral* 14: 7351-7355. Sept. 1948. 9.3 Ag842
- 22317 SEIBOLD, K. Ueberblick über die erzeugungsmöglichkeit. *Deut. Viehhandel* 3(16): 3. Aug. 1948. 49 D482  
Swine.
- 22318 SELLERS, H., JR. Looking ahead at the Hereford business. *Hereford Swine J.* 8(12): 4. Dec. 1948. 46.8 H42
- 22319 STRASSBURGER, G. Viehliefersoll der Bizone; der wendepunkt einer neuen viehstandspolitik. *Deut. Viehhandel* 3(15): 3. Aug. 1948. 49 D482
- 22320 TARNUTZER, H. A. Aus der bündernischen rindviehzucht. *Schweiz. Zentbl. f. Milchw.* 37: 214-215. Oct. 8, 1948. 44.8 Sch93
- 22321 TASMANIA. STATE MEAT BOARD. Report, 1946/1947. Hobart, 1947. 7 p. 50.9 T18
- 22322 TERRAZAS M., I. El problema ganadero de Bolivia. *Campo [La Paz]* 2(18): 19-23. Oct. 1948. 9.1 C15
- 22323 TODOROFF, A. Locker plant hides. *Shoe & Leather Rptr.* 252(10): 85-86. Dec. 4, 1948. 303.8 Sh7
- 22324 TORRENS PASTOR, A. Ganado vacuno: ordenación del servicio de paradas bovinas. Balearic Isl. Diputación Prov. B. de Agr. 39: 5-6. Dec. 1947. 15 B19
- 22325 TURMAN, E. J. The rib of beef. *Aberdeen-Angus J.* 30(5): 49, 92-94. Dec. 1948. 43.8 Ab3  
History of the development of the beef industry.
- 22326 ULMER, G. Magere fleischleistung Württemberg-Hohenzollern; entlastung durch schlachtschweine gesucht. *Deut. Viehhandel* 3(13): 7. July 1948. 49 D482
- 22327 WEISS, E. Ferkelaufkommen und ferkelbedarf; die lage in Württemberg-Baden. *Deut. Viehhandel* 3(13): 8. July 1948. 49 D482
- 22328 YOUNG, D. H. Goats are not cows. *Dairy Goat J.* 27(1): 8. Jan. 1949. 40.18 M592
- 22329 ZIMMERMANN, W. Viehwirtschaft des europäischen kontinents heute und morgen; kann Westdeutschland mit grösseren fleischimporten rechnen? *Deut. Viehhandel* 3(18): 2. Sept. 1948. 49 D482

#### Analysis and Composition

- 22330 ANGELUCCI, N., and NARDELLI, L. Standardization of the technique of bacteriological examination of meat. (In Italian.) *Clin. Vet.* 71: 318-324. Ref. Oct. 1948. 41.8 C61  
German and French summaries.
- 22331 BASU, U. P., and RAY, N. Standardisation of Indian ox bile by its refractive index. *Indian Chem. Soc. J., Indus. & News Ed.* 10: 135-138. 1947. 385 In27A
- 22332 BATE-SMITH, E. C. Observations on the pH and related properties of meat. *Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem.* 571: 83-90. 1948. 389.9 G792M
- 22333 GUSTAVSON, K. H. The structural stability of formaldehyde tanned collagen fibers. *Amer. Leather Chem. Assoc. J.* 43: 741-744. Ref. Dec. 1948. 303.9 Am32
- 22334 MILLARES, R., and FELLERS, C. R. Amino acid content of chicken. *Amer. Dietet. Assoc. J.* 24: 1057-1061. Ref. Dec. 1948. 389.8 Am34

#### Distribution, Marketing, and Transportation

- 22335 ANDERSON, B. W. Rabbit packing industry born of meat shortage. *Small Stock Mag.* 33(1): 28-29. Jan. 1949. 48.8 P442
- 22336 BAILEY, J. W. Privacy for [livestock] purchases. *Hoard's Dairyman* 93: 923. Dec. 25, 1948. 44.8 H65
- 22337 BAUER, O. Die durchführungsbestimmungen für schweinemastverträge. *Deut. Viehhandel* 3(17): 5. Sept. 1948. 49 D482
- 22338 BELL, W. A. Early contracting not profitable. *Mont. Stockgrower* 20(11): 43. Nov. 15, 1948. 49 M76



22339 BLAIN, M. Où et comment vendre la chair de lapin. *Pelletteries du Québec* 14(1): 10. Nov. 1948. 412.628 P36

22340 COOK, J. M. Are you merchandising frozen meats? *Frosted Food Field* 8(1): 2-4. Dec. 1948. 389.8 F922

22341 COOK, O. M. Highly favors co-op. *Karakul J.* 1(6): 20-21. May/June 1948. 45.8 K142  
Cooperative marketing of Karakul pelts and hair.

22342 CREWDSEN, J. Increase sales and lower selling costs at same time. *Dairy Goat J.* 27(1): 12. Jan. 1949. 40.18 M592

Advertising.

22343 DANHUBER, E. Ab morgen weht ein anderer wind? *Deut. Viehhandel* 3(22): 2. Nov. 30, 1948. 49 D482

Meat marketing in Bavaria.

22344 DAVIES, H. Broader markets for canned meats. *Canner* 107(26): 12-13. Dec. 25, 1948. 286.83 C16

22345 GOOD, B. H. Horseman's market terms. *M. S. C. Vet.* 9(1): 18-22. (To be cont.) Fall 1948. 41.8 M582

22346 HARDER, H. J. Promotion and publicity. *Amer. Small Stock Farmer* 33(2): 9. Nov. 1948. 48.8 J82

Rabbit industry.

22347 HARTL, A. Bewirtschaftung von nutz- und zuchtvieh. *Deut. Viehhandel* 3(14): 2. July 1948. 49 D482

Marketing regulations.

22348 HARTL, A. In der rolle des prügelnaben; lockering im nutzviehverkehr für zusammenbruch der fleischbewirtschaftung haftbar? *Deut. Viehhandel* 3(19): 1. Oct. 15, 1948. 49 D482

22349 HEROLD, F. Viehhandel und tierzuchtverbände. *Deut. Viehhandel* 3. Sept. 1948. 49 D482

22350 HOCHSTRASSER, L. B. Bunny money; rabbit packers report boom demand for their efficient meat producers; frozen fryers flow to new consuming regions. *Calif. Rabbit News* 9(9): 3-4, 6. Dec. 1948. 40.28 C12

22351 HOULDSOON, E. Future market for roasters. *Rabbit Raiser* 4(3): 8. Nov. 1948. 40.28 R11

22352 JUNGERMANN, L. Freier verkehr mit nutz- und zuchtvieh; warum und wann? *Deut. Viehhandel* 3(16): 1. Aug. 1948. 49 D482

22353 KENNEDY, F. Cattle drives revived. *Canad. Cattlemen* 11: 146-147. Dec. 1948. 49 C16

22354 KRAFT, A. Wo bleibt der dank der bizonalen schwarzschlächter? *Deut. Viehhandel* 3(22): 1. Nov. 30, 1948. 49 D482

• Meat marketing.

22355 LANIER, P. Que veut-on faire du marché de la viande? *Agr. du Sud-Est* 55(13): 1-2. Oct. 31, 1948. 14 Ag88

22356 LEMONNIER-LEBLANC, J. La nullité des ventes des animaux malades. *Monde Paysan* 3(122): 2. Nov. 15, 1948. 14 M742

22357 MOURA, V. Cooperative production of meat, lard, and wool [Brazil]. (In Portuguese.) *Observador Econ. e Financeiro* 13(153): 59-63. Oct. 1948. 280.8 Ob72

22358 PATILLO, L. S. Flight to Guatemala. *Gulf Coast Cattleman* 14(9): 21-23. Nov. 1948. 43.8 C63

Air freight shipment of livestock.

22359 RHODES, G. Livestock auctions—good and bad; we have both. *For Sale, Want & Exch. B.* 11(2): 1. Nov. 1, 1948. 280.38 F74

Florida.

22360 RICHNOW, H. Die grenzen des viehabgabesolls. *Deut. Viehhandel* 3(13): 2. July 1948. 49 D482

22361 SHANNON, A. T. Store and breeding stock. *New Zeal. Dept. Agr. B.* 279: 57-62. 1947. 23 N48Bu

Marketing.

22362 SORIANO, R., HOTT, H., and HERMANN, N. Distribución y comercio del ganado y sus productos [Chile]. *Agr. Austral* 14: 7341-7346. Sept. 1948. 9.3 Ag842

22363 SUPER MARKET MERCHANDISING. A basic course in meat merchandising. *Super Mkt. Merchandising* 13(12, sect. 2), 138 p. Dec. 1948. 389.8 Su7

22364 TREPTE, A. Soll die neue marktordeung den handel beseitigen? *Deut. Viehhandel* 3(18): 3. Sept. 1948. 49 D482

22365 VALZ, A. M. Meat goes self-service; America is turning to a new and better way to buy cellophane-packaged meat. *Du Pont Mag.* 42(5): 26-27. Sept./Oct. 1948. 309.8 D92

22366 VIVANCOS GUERAO, I. Mercados de ganados. *Balearic Isl. Diputación Prov. B. de Agr.* 47: 2-3. Aug. 1948. 15 B19

22367 WENSE, J. VON DER. Lenkung des nutz- u. zuchtviehverkehrs ohne behördliche reglementierung. *Deut. Viehhandel* 3(14): 3. July 1948. 49 D482

22368 WHITE, E. Bring them in easy. *Mont. Wool Grower* 23(1): 21, 66. Jan. 1949. 45.8 M762

22369 WINNIGSTEDT. Schweinemastverträge und landwirtschaft. *Deut. Viehhandel* 3(16): 3. Aug. 1948. 49 D482

#### Grading, Inspection, Standardization, and Quality

22370 BLACK, R. O. Pure food or diseased meat? *Veg. Messenger* (ser. 8) 45: 259-261. Dec. 1948. 389.8 V522

22371 GONZALO, M. La tuberculosis en la inspección de carnes. *Col. Prov. de Vet. de Burgos. C.* 1948 (40/42): 10-12. Apr./June 1948. 41.9 B91

22372 GUALANDI, G. Rabbit meat as a source of food poisoning in man. (In Italian.) *Clin. Vet.* 71: 313-317. Ref. Oct. 1948. 41.8 C61

22373 HARDY, T. M. P. Curl characteristics of Karakul pelts. *Karakul J.* 1(6): 4-7. Ref. May/June 1948. 45.8 K142

22374 MARTEL, H. Les erreurs du ravitaillement en matière de viandes. *Acad. Natl. de Méd. B.* 131: 634-640. Nov. 4/18, 1947. 448.9 P21

22375 O'FLAHERTY, F. The leather industry and standards. *Standards World* 1(1): 85-90. Winter 1948. 309.8 St22

22376 PESTANA, B. R., and RUGAI, E. The presence of Salmonellas in prepared meats. (In Portuguese.) *Inst. Adolfo Lutz. Rev.* 7: 5-7. 1947. 449.9 Sa62

22377 STEFONI, G. Sanitary control of the trade in some cooked meats. (In Italian.) *Prog. Vet.* 3: 265-266. Aug. 15/Sept. 1, 1948. 41.8 P942

22378 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. USDA meat grading service, by H. E. Reed, W. Adams, K. Nawn, and others. Washington, 1948. 5 p. 1.914 R2R11

#### Prices, Price Control, and Rationing

22379 ROHR, H. J. V. Zweierlei meinung in der fleischwirtschaft. *Deut. Viehhandel* 3(20): 1. Oct. 31, 1948. 49 D482

Prices.

22380 WINNIGSTEDT, R. Betriebswirtschaftlich gerechtfertigte zuchtviehpreise. *Deut. Viehhandel* 3(15): 5. Aug. 1948. 49 D482

Cattle.

#### Processing and Storage

22381 ALONSO MUÑOZ, A. Obtención y sequo de pieles karakul. *B. de Divulg. Ganad. [Valladolid]* 5(18): 22-28. June 1948. 49.9 Sp12

22382 BLAIN, M. Preparation et emballage. *Pelletteries du Québec* 13 i.e. 14(11): 34. Sept./Oct. 1948. 412.628 P36

22383 BOVE MACCIÓ, H. La ganaderia y el Frigorífico Nacional [Uruguay]. *Fed. Rural Rev.* (ser. 3) 11(30): 71-76. July 1948. 9.9 R322

22384 BURT, D. S. Meat, men and the tin can. III. *Packaging Systems* 4(9): 25-27. Oct. 1948. 309.8 P126

History of the canning industry.

22385 BURTON, D. Vegetable tanning. I. *Soc. Leather Trades' Chem. J.* 32: 362-376. Ref. Nov. 1948. 303.9 So12

22386 CHAMBARD, P. Les criteriums du tannage. *Assoc. Franç. des Chim. des Indus. du Cuir. B.* 10: 133-138. (Cont.) Sept. 1948. 303.8 B87

22387 CHAMBARD, P., and ABADIE, F. Etude sur le tannage vegetal. *Assoc. Franç. des Chim. des Indus. du Cuir. B.* 10: 139-146. Sept. 1948. 303.8 B87

22388 ESTEBAN, M. Curtido de pieles. *Cooperación* 7(78): 8-9; (79): 8-9. Aug.-Sept. 1948. 280.28 C7875

Rabbit skins.

22389 EVANS, G. W. Meat packing business as viewed by state cattleman shows strong competition, efficient management and capable personnel do much to make producer a profit. *N. Mex. Stockman* 13(12): 48, 51. Dec. 1948. 49 N462



22390 GAPUZ, D. B., and LOLLAR, R. M. A study of the degreasing of pickled sheepskins. Amer. Leather Chem. Assoc. J. 43: 710-735. Ref. Dec. 1948. 303.9 Am32

Discussion, p. 735-740.

22391 HARDY, T. M. P., SIMMONS, V. L., and SCHOTT, R. G. Preparation and washing of raw Karakul lambskins. Fur Farming J. 2(1): 12-13. July/Aug. 1948. 45.8 K142

22392 HOFFMANN, S. Hauseingemachte fleisch- und wurstkonserven; konservierungstechnische und bakteriologische Gesichtspunkte. Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene 39: 300-309. Ref. 1948. 389.9 Sw6

French summary.

22393 IMPORTANT—glands and trimmings; first of two articles on handling edible and inedible "offal" items. Meat 30: 30-32. Dec. 1948. 286.85 M464

22394 KALLERT, E. Einfrieren entbeinter rinder-viertel in blockform. Tierärztl. Umschau 3: 48-49. Feb. 1948. 41.8 T445

22395 KLINE, E. A. Some hints on handling and cold storage of meats. Sheepman 19: 304-305. Dec. 1948. 45.8 Sh32

22396 MCCARTER, J. H. New look for old [meat] cuts makes the ladies love us. Natl. Grocers B. 35(12): 80-81, 104. Dec. 1948. 286.83 N214

22397 MACDONALD, D. I. Tanners' claims on Freezer Bobby Calfskins. Pig Prog. 13(9): 7-11. Sept. 1948. 46.8 P622

New Zealand.

22398 MACKINTOSH, D. L., and WATT, D. B. Custom cutting for patrons should differ from retail cutting. Quick Frozen Foods 2(5): 108-109. Dec. 1948. 389.8 Q4

Lamb.

22399 MELDRUM, R. S. Rotproofing leather. Chem. Prod. (n. s.) 12(1): 4-6. Ref. Dec. 1948. 382 C428

22400 MENDELSON, M. Le collage du cuir sur plaques. Rev. Tech. des Indus. du Cuir 40: 230-231. Nov. 1948. 303.8 C89

22401 MONTGOMERY, H. How I do my pelting. Black Fox Mag. 32(7): 21. Nov. 1948. 410 B56

22402 NATIONAL PROVISIONER, INC. Annual meat packers guide, 1948. Chicago, 1948. 354 p. 225 An77

Includes a directory.

22403 NESBIT COMPANY. How to skin and dress a rabbit; also care of the pelt. Rabbit Raiser 4(3): 19. Nov. 1948. 40.28 R11

22404 SILVEIRA, A. H. DA. Manufacture of lard. (In Portuguese.) Criação e Vet. 2: 172-173. Aug. 1947. 49 C86

22405 TAYLOR, H. S. Threat of controls clouds packers' outlook; farmers fear to take advantage of huge corn crop—companies' year poor. Barron's 28(52): 5-6. Dec. 27, 1948. 284.8 B27

22406 WILLIAMS, G. My bacon-curing method. Smallholder 80(2017): 23. Nov. 26, 1948. 10 Sml

22407 ZIEGLER, P. T., CHRISTIAN, J. A., and MILLER, R. C. Factors affecting storage of frozen meat analyzed. Natl. Provisioner 119(26): 10-11, 25. Dec. 25, 1948. 286.85 N21

#### Statistics

22408 RITTGEN. Viehbestand und viehwirtschaftliche leistung des zuschusslandes Nordrhein-Westfalen. Deut. Viehhandel 3(18): 4. Sept. 1948. 49 D482

Statistics.

22409 U. S. BUR. OF AGRICULTURAL ECONOMICS. Index numbers of livestock and poultry on farms and ranches January 1, 1867-1948 and animal units of livestock fed annually 1920-48. Washington, 1948. 9 p. 1.941 S8L759

22410 U. S. BUR. OF AGRICULTURAL ECONOMICS. Lamb feeding situation, December 1, 1948. Washington, 1948. 2 p. 1.9 Ec742Lam

22411 U. S. BUR. OF AGRICULTURAL ECONOMICS. Missouri lamb crop report, 1948. Columbia, 1948. 2 p. 1.941 S8L16

Lamb and wool statistics.

22412 U. S. BUR. OF AGRICULTURAL ECONOMICS. Montana 1948 lamb crop report. Helena, 1948. 2 p. 1.941 S8L162

Statistics.

22413 WAAGSTROEM. Bestrebungen der rindërzucht und -nutzung in Österreich. Österr. Milch- u. Fettwirtschaft 3: 245-248. Nov. 1948. 44.8 Os72

#### OILS AND OILSEEDS

22414 ALEXA, G., and SIMIONESCU, C. Étude de la capacité d'oxydation de quelques huiles de provenance roumaine. Rev. Tech. des Indus. du Cuir 40: 221-229. Ref. Nov. 1948. 303.8 C89

22415 ALEXA, G., and SIMIONESCU, C. Quelques données sur l'huile de graines de tomates de provenance roumaine. Rev. Tech. des Indus. du Cuir 40: 199-202. Ref. Oct. 1948. 303.8 C89

22416 ALLIX, J. Les possibilités françaises en corps gras d'origine animale. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 145-150. Apr./May 1948. 14 F844B

22417 ANDRÉ, E. Composition et qualités technologiques des huiles et des tourteaux. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 307-309. Apr./May 1948. 14 F844B

22418 AVRIL, R. Physionomie actuelle de l'huilerie moyenne et artisanale en France. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 289-292. Apr./May 1948. 14 F844B

22419 BATTLE, J. H. Linseed oil situation. Paint Indus. Mag. 63: 405-406. Dec. 1948. 306.8 D84

22420 BERRUÉ, J. La moutarde noire. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 262-264. Apr./May 1948. 14 F844B

22421 BHALERAO, V. R., VENKATAPPIAH, D., and ANANTAKRISHNAN, C. P. Component of fatty acids of butterfats, hydrogenated groundnut oils and mustard oil. Indian J. Vet. Sci. & Anim. Husb. 17: 177-183. Ref. Sept. 1947. 41.8 In22

22422 BLANC. Essai sur la recherches de l'huile d'arachide dans l'huile d'olive. Ann. des Falsif. 41: 362-367. July/Sept. 1948. 389.8 An72

22423 BONNET, P. L'olivier et l'huile d'olive en France et en Afrique du Nord. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 239-246. Apr./May 1948. 14 F844B

22424 BRACONNIER. L'avenir de la production des oléagineux métropolitains. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 159-160. Apr./May 1948. 14 F844B

22425 BRANDT, C. Soja—die wunderpflanze. Unser Hof 1948: 122-125. 18 Un72

22426 BRITISH INFORMATION SERV. Not just peanuts; the story of Britain's great agricultural experiment in East Africa. New York, 1948. 28 p. 77 B77

22427 BROCHE, G. Physionomie actuelle de l'huile industrielle. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 285-288. Apr./May 1948. 14 F844B

22428 CHOUARD, P. Perspectives d'avenir: le ricin. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 273-276. Apr./May 1948. 14 F844B

22429 COLLURA, A. M. Esencias citricas. Campo y Suelo Argentino 32(384): 36-37, 42. Oct. 1948. 9 C15

22430 COOK, F. T. South Africa controls margarine sale to lower income groups. Foreign Trade 4: 1185-1186. Dec. 11, 1948. 286.8 C162

22431 DARUWALA, E. D., and others. Cracking of vegetable oils. IV. Thermal decomposition of certain vegetable oils under reduced pressures. Indian Chem. Soc. J., Indus. & News Ed. 10: 107-112. 1947. 385 In27A

M. R. Mandlekar, T. N. Mehta, and V. M. Parekh, joint authors.

22432 DOERSCHUK, A. P., and DAUBERT, B. F. Low-temperature solvent fractionation of corn oil and calculation of its glyceride structure. Amer. Oil Chem. Soc. J. 25: 425-433. Ref. Dec. 1948. 307.8 J82

22433 DRUMMOND, SIR J. Fats in the life of the nation. Brit. Food J. 50: 121-122. (Concl.) Dec. 1948. 389.8 B77

22434 DUFRENOY, J., and PRATT, R. Significance of fatty acids in biosynthesis of penicillin. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 118. Dec. 1948. 389.8 F94

22435 ELEAZER, J. M. Seed gaining importance in cotton economy. Victory Farm Forum 33: 13. Dec. 1948. 281.8 F226

22436 FERRARA, A. Oil plants in Venezuela, the Andes republics, Paraguay and Uruguay. (In Italian.) Olearia 2: 757-769. Nov. 1948. 307.8 OL2

The industry.



22437 FERRU, H. L'organisation professionnelle et interprofessionnelle actuelle en matière d'oléagineux. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 161-165. Apr./May 1948. 14 F844B

22438 FRITZSCHE. Letztjährige erfahrungen im sojabohnenanbau. Land, Wald u. Garten 3: 51. Mar. 1948. 18 L22

22439 GABBY, J. L. Versatile soybean it's use in industry and agriculture. Soybean Digest 9(2): 18-19. Dec. 1948. 60.38 S09

22440 GARIDEL, DE. Les coopératives d'huilerie. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 293-294. Apr./May 1948. 14 F844B

22441 GARNERO, J., BÉNEZET, L., and IGOLEN, G. Composition chimique de l'huile essentielle de menthe poivrée du Brésil (*Mentha arvensis* D. C. var. *piperas-cens* Malinvaud). Indus. de la Parfumerie 3: 353-359. Ref. Nov. 1948. 308.8 In2

22442 GATTEFOSSÉ, R. M. French lavender, production and economics. Perfumery & Essential Oil Rec. 39: 318-319. Oct. 1948. 308.8 P41  
Lavender oil industry.

22443 GUILLAUME. Production actuelle et perspectives d'avenir des oléagineux dans les territoires d'outre-mer de l'Union Française. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 151-157. Apr./May 1948. 14 F844B

22444 GUILLEMOT-TREFFAINGUY, and BRICOUX. La collecte, le stockage et la conservation des graines oléagineuses. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 281-283. Apr./May 1948. 14 F844B

22445 GUNSTONE, F. D., HILDITCH, T. P., and RILEY, J. P. African drying oils. I. The seed oil of *Tetradlepidium conophorum*. Soc. Chem. Indus. J. 66: 293-296. Aug. 1947. 382 M31

22446 HADORN, H., and JUNGKUNZ, R. Über eine neue substanz im unversehbaren des teesamenöles. Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene 39: 259-274. Ref. 1948. 389.9 Sw6  
French summary.

22447 HALL, C. M., and others. Application of the antimony trichloride-spectrophotometric method to the determination of gossypol in cottonseed and cottonseed products. Amer. Oil Chem. Soc. J. 25: 457-461. Ref. Dec. 1948. 307.8 J82

L. E. Castillon, W. A. Guice, and C. H. Boatner, joint authors.

22448 HEILBRONNER, A. Les industries des corps gras et leur place parmi les industries alimentaires. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 295-297. Apr./May 1948. 14 F844B

22449 HENSHAW, R. "No regrets"; an account of another successful linseed season. Farmers Weekly [London] 29(25): 41. Dec. 17, 1948. 10 F2226

22450 HEURN, F. C. VAN. The oil palm. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel IIA, p. 526-598. Ref. 's-Gravenhage, 1948. 37 H14L

22451 ILLMER. Liegen wir mit unserer oel- und fasererzeugung richtig? Neue Mitt. f. die Landw. 3: 419-420. Nov. 25, 1948. 18 N39  
Germany.

22452 ISELIN, E. Das verderben der fette und öle. II. Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene 39: 310-336. Ref. 1948. 389.9 Sw6  
French summary.

22453 JENKINS, J., JR. The peanut makes a strong industry. Commonwealth 15(12): 24-25, 56, 58, 60. Dec. 1948. 280.8 C732

22454 KELLER, J. C. Peanut production hits all time high. Peanut J. & Nut World 28(3): 23-24. Jan. 7, 1949. 77.8 P313

22455 KESTRAT, M. DE. L'œillette. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 264-265. Apr./May 1948. 14 F844B

22456 KLINGE, G. El algodón como cultivo alimenticio. Vida Agr. [Lima] 25: 743-746. Sept. 1948. 9.8 V66

Utilization of cottonseed.

22457 LAUDET, L. L'approvisionnement français en corps gras. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 141-144. Apr./May 1948. 14 F844B

22458 LONG, J. Le carthame dans la région méditerranéenne. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 233-237. Apr./May 1948. 14 F844B

22459 LUGAN. L'huile de pépins de raisins. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 255-257. Apr./May 1948. 14 F844B

22460 LUND, C. E. Remarks [at] conference with Extension Division executives of the U. S. Department of Agriculture, December 11, 1947. Washington? 1948? 8 p. 307 L97  
Oils and fats situation.

22461 MCMILLAN, G. The truth about margarine. Ontario Milk Prod. 24: 181. Dec. 1948. 44.8 On8

22462 MAYER, R., and PLONKA, F. Le lin, plante à huile. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 247-253. Apr./May 1948. 14 F844B

22463 MAYOLLE. Situation mondiale des corps gras. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 135-139. Apr./May 1948. 14 F844B

22464 MILLER, L., SEARLE, O. M., and SEMPERE, J. H. Enzymatic hydrolysis of soybean protein. Arch. Biochem. 19: 359-367. Ref. Dec. 1948. 381 Ar2

22465 MORETTINI, A. Olive culture and the olive oil industry in Algeria. (In Italian.) Olearia 2: 658-667. Oct. 1948. 307.8 OL2

22466 MORGAN, I., JR. Crushers are determined to expand their services for U. S. agriculture in '49. Cotton Trade J. 30(3): 16. Jan. 21, 1949. 72.8 C8214

22467 NANDA, G. S., MATHUR, K. B. L., and SPEERS, P. C. A study of taramira oil (*Eruca sativa* oil) as a lubricating oil in relation to rape oil and its stabilisation. Indian Chem. Soc. J., Indus. & News Ed. 10: 131-134. 1947. 385 In27A

22468 NAVES, Y. R. Recent progress in the knowledge of essential oils. Perfumery & Essential Oil Rec. 39: 345-346. Nov. 1948. 308.8 P41

22469 NAZART, J. La cameline. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 260. Apr./May 1948. 14 F844B

22470 OSBORN, T. W. B. The case for margarine. Food Indus. So. Africa 1(3): 22-25. July 1948. 389.8 F372

22471 OVERMAN, A., LOWE, B., and SHANNON, W. J. Changes in a fat with prolonged storage and the palatability of doughnuts cooked in the fat. Amer. Oil Chem. Soc. J. 25: 434-437. Dec. 1948. 307.8 J82

22472 PALENI, A. Technology of oil extraction from oilseeds with solvents. (In Italian.) Olearia 2: 647-657. Oct. 1948. 307.8 OL2

22473 PATIN, J., and VIGNAU, M. Analyse des huiles essentielles. Indus. de la Parfumerie 3: 81-84. (To be cont.) Mar. 1948. 308.8 In2

22474 PÉQUIGNOT, R. Navette et moutarde blanche. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 260-262. Apr./May 1948. 14 F844B

22475 PHILIPPART, J. Les industries du deuxième degré dans le domaine des corps gras; présentations nouvelles des produits dérivés des huiles et des tourteaux. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 299-306. Apr./May 1948. 14 F844B

22476 PRAKASH, O., SHARMA, T. R., and ATHAWALE, D. Y. Dehydration of castor oil and its application in paints and varnishes. I-II. Indian Chem. Soc. J., Indus. & News Ed. 10: 89-106. Ref. 1947. 385 In27A

I. Dehydration of castor oil; II. Application in paints and varnishes.

22477 PROTIN, R. L'alimentation animale dans ses rapports avec les oléagineux. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 311-313. Apr./May 1948. 14 F844B

22478 ROULLAND. La commercialisation des oléagineux métropolitains. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 277-280. Apr./May 1948. 14 F844B

22479 SABETAY, S., and IGOLEN, G. Sur les phénols de l'essence concrète de fleurs de réséda. Indus. de la Parfumerie 3: 85-86. Mar. 1948. 308.8 In2

22480 SCHAD, C. Faisons le point en matière de soja. France. Min. de l'Agr. B. Tech. d'Inform. 28/29: 267-272. Apr./May 1948. 14 F844B

22481 SCHWITZER, M. K. Solvent extraction of vegetable oils. Internatl. Chem. Engin. & Process Indus. 29(12): 546-551. (To be cont.) Dec. 1948. 393 In8

22482 STOKOFF, S. Über sonnenblumenpektin. Mitt. aus dem Gebiete der Lebensmitteluntersuch. u. Hygiene 39: 292-299. 1948. 389.9 Sw6  
French summary.



- 22483 STRAND, E. G. Soybeans in American farming. U. S. D. A. Tech. B. 966, 66 p. Ref. Nov. 1948. 1 Ag84Te
- 22484 U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. List of antioxidants proposed for the preservation of edible fats (with a selected bibliography of papers and patents). U. S. Bur. Agr. and Indus. Chem. AIC-54, 8 p. Oct. 28, 1948. 1.932 A2Ag82
- 22485 U. S. EXTENSION SERV. Soybean and flaxseed summary. Chicago, 1948. 4 p. 1.913 A2So9  
U. S. Production and Marketing Administration cooperating.  
Statistical summary.
- 22486 VÁZQUEZ, J. Preparación de las aceitunas. Bolsa de Com., Rosario. Rev. 36(882): 13-14. Oct. 15, 1948. 287 R71
- 22487 VELASCO, J. R., and RUIZ, J. O. Contribución al estudio de las grasas vegetales. I. Absorción de bromo por el aceite de oliva. Soc. Españ. de Fís. y Quím. An. Ser. B, Quím. 44: 275-318. Ref. Mar. 1948. 385 So16  
English summary.
- 22488 VIDAL, V. A. C. Research on the ultraviolet absorption of olive oils. (In Italian.) Olearia 2: 744-749. Ref. Nov. 1948. 307.8 OL2
- 22489 WAIT, R. A. Production of stabilized peanut butter. Peanut J. & Nut World 28(3): 26, 48-49. Jan. 7, 1949. 77.8 P313
- 22490 WAKEFIELD, A. J. Towards years of plenty: the groundnut scheme brings nearer the prospects of bountiful oil supplies. Discovery 9: 330-331. Nov. 1948. 472 D63
- 22491 WOLTERSDORF, H. Engpass: das fettproblem. Molkerei-Ztg. 1: 193-194. Dec. 20, 1947. 44.8 M735  
Germany.
- ### POULTRY AND POULTRY PRODUCTS
- 22492 ACHTERBERG, A. Loomis eggs to Arizona; co-op truck carries 540 cases to southwestern state weekly. Irrig. Farmer 6(7): 8. Nov. 4, 1948. 55.8 Ir78
- 22493 ALP, H. H. Poultry Department [of American Farm Bureau Federation] in 1948. Nation's Agr. 24(1): 12. Jan. 1949. 280.82 B89
- 22494 ANTONIANI, C., FEDERICO, L., and MISSIROLI, M. Changes of vitaminic content in refrigerated eggs. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 481-488. 1948. 16 An76  
English summary.
- 22495 APPEL, V. O. Freezing and refrigerated storage of poultry and poultry products in the United States. World's Poultry Cong. Off. Rpt. 8: 531-536. 1948. 47.9 W898O  
French summary.
- 22496 AUSTRALIA. CONTROLLER OF EGG SUPPLIES. Annual report... for year ended 30th June, 1946. Sydney, 1947. 13 p. 281.3479 Au7
- 22497 BEANBLOSSOM, F. Z. Egg environment means from the nest to the kitchen. Amer. Poultryman 11(11): 10-11. Oct. 1948. 47.8 So86  
Care and handling.
- 22498 BENEY, P. A. Dirty eggs don't pay. Poultry World 83: 438. Dec. 17, 1948. 47.8 P8682
- 22499 BENOÎT, C. E. Pour que les dindons paient. Avic. Québécois 3(10): 22-23. Oct. 1948. 47.8 Av55
- 22500 BERG, L. R. Checked or cracked eggs show surprising loss on debit side of poultryman's ledger. Nutrition environment disease among factors determining quality of shells. Co-op Chick News 19(11): 10-11, 13. Nov. 1948. 47.8 C783
- 22501 BIELY, J. Opening day of the Eighth World's Poultry Congress. Canada Poultryman 35(11): 16-18. Nov. 1948. 47.8 C166
- 22502 BROIN, J. DE. The poultry industry committee - a means of balanced industry development. World's Poultry Cong. Off. Rpt. 8: 385-389. 1948. 47.9 W898O  
French summary.  
Canada.
- 22503 BROOKS, J., and HAWTHORNE, J. R. Dried sugar egg powder. World's Poultry Cong. Off. Rpt. 8: 544-547. 1948. 47.9 W898O  
French summary.
- 22504 BROWN, W. A. Uniform standards of quality as a basis of international trading. World's Poultry Cong. Off. Rpt. 8: 477-480. 1948. 47.9 W898O  
French summary.
- 22505 BUSTER, M. W., and TERMOHLEN, W. D. Development of standards and grades for poultry and egg products. World's Poultry Cong. Off. Rpt. 8: 481-488. 1948. 47.9 W898O  
French summary.
- 22506 CARPENTER, C. D. Better poultry coming up. Natl. Grocers B. 35(12): 70, 102. Dec. 1948. 286.83 N214
- 22507 CHAPMAN, P. W. Georgia's \$65,000,000 poultry industry. Prog. Farmer, Ga.-Ala.-Fla. Ed. 63 (11): 18, 118. Nov. 1948. 6 P945G
- 22508 DAWSON, L. E., and WOOD, G. B. Market suggestions for turkey growers. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1948: 2-3. Nov. 20, 1948. 275.29 In2En
- 22509 DIEHL, H. C. Washed shell eggs and storage. Amer. Egg & Poultry Rev. 9(13): 10, 12, 56-57. Dec. 1948. 47.8 Am38
- 22510 EBBELL, Pfannenfertig! Geflügelhof 11: 404-405. July 2, 1948. 47.8 G276  
Preparation of poultry for cold storage.
- 22511 ELLIOTT, E. M. L. Studies on the bacterial infection of the hen's egg, fresh and dried. Cambridge U. Abs. Diss. 1945/1946: 21-22. 1948. 241.8 C14
- 22512 FISCHER, C. M., and DELOACH, D. B. Consumer response to the marketing of cut-up turkey. Oreg. Agr. Expt. Sta. B. 457, 32 p. Aug. 1948. 100 Or3
- 22513 FUNK, E. M. Thermo-stabilization of quality in shell eggs. World's Poultry Cong. Off. Rpt. 8: 547-552. 1948. 47.9 W898O  
French summary.
- 22514 GLAUSER. Preisabbau für zuchtprodukte. Geflügelhof 11: 720-721. Nov. 12, 1948. 47.8 G276
- 22515 GORESLINE, H. E. The Salmonella problem in egg and poultry products. World's Poultry Cong. Off. Rpt. 8: 604-608. Ref. 1948. 47.9 W898O  
French summary.
- 22516 GRATON, A. Préparation et vente des dindons. B. des Agr. 44(12): 18-19. Dec. 1948. 7 B872
- 22517 GUERANDE, C. Bilan d'un élevage familial. Rustica 21: 745. Oct. 24, 1948. 14 R92  
Statistics of egg production by poultry and losses incurred.
- 22518 HADLINGTON, E. The poultry industry in other countries; a review of present and potential production. Agr. Gaz. N. S. Wales 59: 493-496. Sept. 1948. 23 N472
- 22519 HAEGGBLOM, E. The Swedish Farmers Egg Marketing Association. (In Swedish.) World's Poultry Cong. Off. Rpt. 8: 504-511. 1948. 47.9 W898O  
English and French summaries.
- 22520 HAMANN, H. G. F. The functions and relationships of official inspection and grading services for poultry products in commercial and government enterprises. World's Poultry Cong. Off. Rpt. 8: 488-493. 1948. 47.9 W898O  
French summary.
- 22521 HOOVER, W. B. New egg law enforced throughout the State. Va. Foodsmen 9(12): 9. Dec. 1948. 286.28 V81
- 22522 HOUT, F. VAN. Good prospects for the poultry industry; however, eggs should be exported. (In Flemish.) Cult. en Handel 14: 720. Nov. 1948. 80 C892
- 22523 HUNTINGTON, H. I. Progress in consumer education of poultry products and its international application. World's Poultry Cong. Off. Rpt. 8: 556-562. 1948. 47.9 W898O  
French summary.
- 22524 JAUME, J. "S'endiot." Balearic Isl. Diputación Prov. B. de Agr. 39: 2-3. Dec. 1947. 15 B19  
Turkeys.
- 22525 JULL, M. A. Dried egg uses in Spain. World's Poultry Sci. J. 4: 254. Oct./Dec. 1948. 47.8 W89
- 22526 JULL, M. A. Poultry conditions in Spain. World's Poultry Sci. J. 4: 279. Oct./Dec. 1948. 47.9 W89
- 22527 KAHLENBERG, O. J. Preliminary studies on factors affecting egg white quality. Bakers' Digest 22: 117-119. Dec. 1948. 389.8 S11
- 22528 KEMP, J. Co-operative marketing of eggs in England and Wales. World's Poultry Cong. Off. Rpt. 8: 511-515. 1948. 47.9 W898O  
French summary.



- 22529 KIDD, E. E. The development of organisation in the poultry industry in England and Wales. World's Poultry Cong. Off. Rpt. 8: 362-367. 1948. 47.9 W8980 French summary.
- 22530 KISH, A. F. Eggs and broilers go together. N. H. Breeder 11(4): 11, 26. Dec. 1948. 47.8 N45 In the poultry industry.
- 22531 KRISHNAN, T. S. Shell sealing of eggs. Indian J. Vet. Sci. & Anim. Husb. 17: 265-267. Dec. 1947. 41.8 In22
- 22532 KUMANOV, S. Développement de poultry in Bulgaria. World's Poultry Cong. Off. Rpt. 8: 372-374. 1948. 47.9 W8980 French summary.
- 22533 LIDMILA, B. Marketing of poultry products in Czechoslovakia. World's Poultry Cong. Off. Rpt. 8: 515-519. 1948. 47.9 W8980 French summary.
- 22534 LORENZ, F. R., and STARR, P. B. What can be done about sour eggs? Nulaid News 26(9): 3-4, 23. Jan. 1949. 47.8 N917
- 22535 MCCLASKEY, G. D. Kansas goes after quality in volume. U. S. Egg & Poultry Mag. 55(1): 10-11, 24-26. Jan. 1949. 286.85 Eg3 Poultry.
- 22536 MCMANUS, R. C. The dollars you don't get for eggs; what happens to that part of the price that never reaches the farm? Here's a cent-by-cent accounting of the spread. Farm J. 72(11): 23-25. Nov. 1948. 6 F2212
- 22537 MACY, T. The development of co-operative hatcheries in Indiana. World's Poultry Cong. Off. Rpt. 8: 375-379. 1948. 47.9 W8980 French summary.
- 22538 MARTIN, T. Eggs: from the nest to the table, their care is most important. Amer. Poultryman 11(12): 10. Nov. 1948. 47.8 So86
- 22539 MARTYNIK, A. Saturated and unsaturated fats in the meat of hens. World's Poultry Cong. Off. Rpt. 8: 216-219. Ref. 1948. 47.9 W8980 French summary.
- 22540 MILLER, M. W. Should eggs be washed? Washcoegg 26(7): 7, 30-31. Dec. 1948. 47.8 W27
- 22541 MOORE, A. C. Dirty eggs should not go to packing stations. Poultry [London] 103: 374. Nov. 9, 1948. 47.8 P869
- 22542 MYERS, E. C., and BIXBY, J. O. Moisture resistance of packages for dried-egg powder. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1725, 13 p. Oct. 1948. 1.9 F761R
- 22543 NEW SOUTH WALES. EGG MARKETING BOARD. The twentieth annual report. Poultry Farmer [Sydney] 16(19): 3-12. Nov. 6, 1948. 280.28 Or32
- 22544 NIELSEN, O. Cooperative marketing of egg and table poultry in Denmark. (In Danish.) World's Poultry Cong. Off. Rpt. 8: 520-523. 1948. 47.9 W8980 English and French summaries.
- 22545 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Poultry-keeping in Denmark. North. Ireland. Min. Agr. Rpt. 23: 162-166. Oct. 1948. 256.13 Ag82M
- 22546 NUGENT, G. R. H. Great future for poultry. Farmer & Stock-Breeder 62: 2791. Nov. 30, 1948. 10 F228
- 22547 NUGENT, G. R. H. The organisation of the British poultry industry. World's Poultry Cong. Off. Rpt. 8: 367-372. 1948. 47.9 W8980 French summary.
- 22548 OLDENBURG, C. F. Turkeys, cooperation and freckles. Co-op Chick News 19(11): 3, 7. Nov. 1948. 47.8 C783 Washington.
- 22549 PASSEBON, L. Position prépondérante de l'aviculture dans l'économie danoise. Vie à la Campagne 37: 325-328. Nov. 1948. 80 V67
- 22550 PAULAU, N. G. Studies of poultry and egg marketing facilities in 26 cities in the United States. World's Poultry Cong. Off. Rpt. 8: 524-527. 1948. 47.9 W8980 French summary.
- 22551 PEACOCK, J. War-time control of eggs in the United Kingdom. World's Poultry Cong. Off. Rpt. 8: 494-498. 1948. 47.9 W8980 French summary.
- 22552 PEDERSEN, I. O. How I produced clean eggs. Nulaid News 26(9): 5. Jan. 1949. 47.8 N917
- 22553 PEELE, F. E. Get the turkeys ready for marketing. Mod. Poultry Keeping 59: 590-591. Dec. 8, 1948. 47.8 Eg3
- 22554 PENNINGTON, M. E. The eighth World's Poultry Congress. Ice & Refrig. 115(12): 37-38. Dec. 1948. 295.8 Ic2
- 22555 PLATT, C. S. Pigeons can make you money, but look before you leap. N. J. Farm & Gard. 19(11): 44. Nov. 1948. 6 G162
- 22556 PROULX, J. R. Situation avicole et perspectives d'avenir. Avic. Québécois 3(10): 18. (Concl.) Oct. 1948. 47.8 Av55
- 22557 RIGNAULT, P. L'union de l'aviculture française est en vue. Avic. Basse-Cour 4: 55-56. 1948. 47.8 Av53 France.
- 22558 ROGERS, C. R., and MOFFETT, A. G. Tagged poultry grows in popularity. Southeast. Poultryman 1(4): 7, 17-18. Oct. 1948. 47.8 So872
- 22559 ROMANOFF, A. J., and ROMANOFF, A. L. Flash treatment of eggs retards rate of deterioration. Amer. Poultryman 11(11): 12. Oct. 1948. 47.8 So86
- 22560 ROY, J. B. Importante modification dans le programme de la Coopérative Avicole du Québec. Terre de Chez Nous 21(7): 18. Nov. 10, 1948. 7 T27
- 22561 RÜFENACHT, B. Probleme der eierwirtschaft. Geflügelhof 11: 390-391. June 25, 1948. 47.8 G276 Switzerland.
- 22562 SAINT-OLLIER. Cog, canard et oie dans l'industrie de la mode. Rustica 21: 866, 871. Dec. 5, 1948. 14 R92 Use of ornamental feathers.
- 22563 SAMAT, M. Les qualités de chair. Réveil Agr. 57: 360-361. Dec. 1, 1948. 14 R322 Poultry.
- 22564 SMALL, M. C. How the National Turkey Federation serves the turkey industry of the U. S. A. World's Poultry Cong. Off. Rpt. 8: 579-583. 1948. 47.9 W8980 French summary.
- 22565 SULSER, M. Probleme der eierwirtschaft. Geflügelhof 11: 391-394. June 25, 1948. 47.8 G276 Discussion, p. 394-395, 397. Switzerland.
- 22566 SWERDLOFF, S. J. Poultry and eggs—the consumer viewpoint. Amer. Egg & Poultry Rev. 9(13): 30-32. Dec. 1948. 47.8 Am38
- 22567 TAYLOR, F. R., and WAITE, W. C. Quality of eggs delivered by sampled Minnesota producers. Amer. Egg & Poultry Rev. 9(13): 18, 20. Dec. 1948. 47.8 Am38
- 22568 TERMOHLEN, W. D. International standardization and grading of eggs and poultry and uniformity of packages. World's Poultry Cong. Off. Rpt. 8: 59-70. 1948. 47.9 W8980 French summary.
- 22569 TINDALL, C. Higher prices for eggs. Mo. Ruralist 89(24): 5. Dec. 25, 1948. 6 R8891 Selling eggs on a grade basis.
- 22570 TITMAN, B. The liquid and frozen egg industry in the United States. World's Poultry Cong. Off. Rpt. 8: 552-555. 1948. 47.9 W8980 French summary.
- 22571 TORRENT, J. A. Determinación del grado de deterioro del huevo desecado; contribución a su estudio. La Plata. U. Nac. Facul. de Cien. Quím. Rev. 21: 103-116. Ref. 1946, pub. 1947. 385 L31
- 22572 TUKKER, J. G. The rehabilitation of the poultry industry in the Netherlands. World's Poultry Cong. Off. Rpt. 8: 413-417. 1948. 47.9 W8980 French summary.
- 22573 TURNBULL, D. M. Over-confidence is biggest industry barrier for 1949. IBCA News 24(3): 1-2, 10. Nov. 1, 1948. 47.8 In83 Poultry.
- 22574 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Let's talk turkey, by J. Chapman and J. Obert. Washington, 1948. 7 p. 1.914 R2T23 Includes production and price situation.
- 22575 U. S. PRODUCTION AND MARKETING ADMIN. Consumer guides for buying and keeping eggs. U. S. D. A. AIS-77, 4 p. Oct. 1948. 1 Ag84A1
- 22576 U. S. PRODUCTION AND MARKETING ADMIN. Questions for written examination for egg graders. Washington, 1948. 3 p. 1.956 A2Q33



## SEEDS

22577 WARREN, C. C. A formula for estimating the chick season. *Feedstuffs* 20(51): 47-50, 52. Dec. 18, 1948. 286.81 F322

22578 WARREN, C. C. How much expansion? There is still room for an increase in egg and poultry production in the West, but the healthy condition of the poultry industry in the West is due largely to the fact that it is a deficit area with higher prices. *Pacific Poultryman* 53 (1): 9, 51-52. Jan. 1949. 47.8 P112

22579 WARREN, C. C. The outlook for 1949; Government economist outlines future prospects. *Turkey World* 24(1): 13, 72, 74, 76, 78, 80. Jan. 1949. 47.38 T84

22580 WATSON, L. G. Poultry comes to hill farms. *South. Planter* 109(12): 8, 28. Dec. 1948. 6 So89

The industry in South Branch Valley, West Virginia.

22581 WHITEHALL, W. L. Eggs in shell. *Queensland Co-op.* 3(15): 19-21. (Cont.) Aug. 26, 1948. 280.28 Q3

Various aspects of marketing.

22582 WILSON, G. R. On European poultry and Canadian eggs in Britain with a sidelight on the English countryside. *Canada Poultryman* 35(11): 11, 13-15, 22. Nov. 1948. 47.8 C166

22583 WINTER, A. R., and WRINKLE, C. Frozen egg quality depends on clean eggs, clean equipment, quick cooling. *U. S. Egg & Poultry Mag.* 55(1): 7-9, 18-19. Jan. 1949. 286.85 Eg3

22584 WINTER, E. P. Marketing margins and costs for poultry and eggs. *U. S. D. A. Tech. B.* 969, 70 p. Ref. Nov. 1948. 1 Ag84Te

22585 YOHE, R. S. How to buy your baby chicks. *Prairie Farmer*, Gen. Ed. 121: 30. Jan. 1, 1949. 6 P883

22586 ZUMBRO, P. B. Improving the quality of chicks and poults in the United States through a voluntary cooperative plan. *World's Poultry Cong. Off. Rpt.* 8: 379-384. 1948. 47.9 W898O

French summary.

## RUBBER AND RUBBER SUBSTITUTES

22587 BAUM, H. Entwicklungstendenzen am kautschukmarkt. *Kautschuk u. Gummi* 1: 203-204. Aug. 1948. 305.8 K162

22588 BELOW, F. Welt-kautschukerzeugung und zukunftsaussichten. *Angew. Chem.* 19: 149-150. May/June 1947. 384 C428

22589 BROOKING, J. H. C. Recollections of the rubber industry. *India Rubber J.* 115: 817-818. Dec. 4, 1948. 305.8 In21

22590 DAWSON, T. R. Recent progress in the British rubber industry. *India Rubber J.* 115: 810-816. Dec. 4, 1948. 305.8 In21

22591 DUVAL, J. C. La normalisation dans le domaine du contrôle du caoutchouc. *Rev. Gén. du Caoutchouc* 25: 433-440. Nov. 1948. 305.8 R32

English summary, p. 466.

22592 HADLOCK, G. B., COX, J. T., JR., and BURKE, O. W., JR. Synthetic rubber quality shows improvement. *Chem. & Engin. News* 27(1): 27-28. Jan. 3, 1949. 381 J825N

22593 HAMMOND, G. L. Physical testing of rubber. *India Rubber J.* 115: 832-837. Dec. 4, 1948. 305.8 In21

22594 HANSEN, J. E., PALM, W. E., and DIETZ, T. J. Amine vulcanization of ethyl polyacrylate. *U. S. Bur. Agr. and Indus. Chem. AIC-205*, 6 p. Sept. 1948. 1.932 A2Ag82

22595 HINE, H. J. Uses of rubber in farm equipment. *Rubber Devlpmt.* 1(5): 26-30. Sept. 1948. 305.8 R828

22596 JAMES, H. M. The strange behavior of rubber. *Chemistry* 22(3): 40-48. Nov. 1948. 381 J826A

22597 MARTIN, G. A new form of rubber. *Rubber Devlpmt.* 1(5): 4-8. Sept. 1948. 305.8 R828

22598 PROSKE, G. E. Beiträge zur entwicklung von kunstkauschuk-mischungen. *Kautschuk u. Gummi* 1: 209-211. (Cont.) 305.8 K162

22599 STEVENS, W. H. Latex processes and potentialities. 5. Modified latex. *Rubber Devlpmt.* 1(5): 9-15. Sept. 1948. 305.8 R828

22600 YOHE, R. V. Commercial aspects of natural and synthetic rubber latices. *Rubber Devlpmt.* 1(5): 16-18. Sept. 1948. 305.8 R828

22601 FLESLAND, A. Importance of processing and sampling seed early. *Minn. Seed Grower* 21(6): 5-6. Dec. 1948. 61.8 M66

22602 HÄRING. Die saatgutversorgung herbst 1948. *Württemb. Wchnbl. f. Landw.* 115: 257-258. Sept. 18, 1948. 18 W96

22603 LAUMONT, P. Ce qu'il faut demander aux semences sélectionnées de céréales ce qu'on doit attendre de leur emploi et comment s'en procurer. *Voix des Colons* 30(1470): 1. Sept. 20, 1948. 24 V85

22604 MASSACESI, A. Planting, societies, and agricultural inspectorates. (In Italian.) *Terra [Firenze]* 59(38): 1-2. Sept. 19, 1948. 16 T274

Seed production.

22605 NATIONAL INSTITUTE OF AGRICULTURAL BOTANY. Growers' prices for seed of Aberystwyth "s" strains, 1948. *Natl. Inst. Agr. Bot. Seed Notes* 24, 2 p. Nov. 1948. 61.9 N21S

22606 RUFIN, G. Les semences de céréales. *Jura Agr.* 1948(12): 1. Oct. 15, 1948. 14 J97

22607 SEED trade buyer's guide, thirty-second year, 1949. Chicago, 1949. 248 p. 225 Se3

22608 TALLARICO, G. Seed-producing agriculture. *Terra e Sole* 73/74: 743-744. Nov. 1948. 16 T273

Italy.

22609 TOOLE, E. H., TOOLE, V. K., and GORMAN, E. A. Vegetable-seed storage as affected by temperature and relative humidity. *U. S. D. A. Tech. B.* 972, 24 p. Oct. 1948. 1 Ag84Te

22610 VAN WYK, J. F. Quantity or quality in seed-production. *Farming So. Africa* 23: 589-590. Sept. 1948. 24 So842

## SUGAR AND SIRUPS

22611 AUDET, L. P. Sommes-nous vraiment le pays de l'étable? *Paysana* 2(9): 7, 9. Nov. 1948. 7 P29

Quebec.

22612 BALCH, R. T., and BROEG, C. B. The sugar cane trash problem from a chemical standpoint. *Sugar* 43(12): 31-35. Ref. Dec. 1948. 65.8 F11

22613 BJERKHÖG, K. Cossette quality and cossette slicing. (In Swedish.) *Socker* 4: 97-121. May 1948. 65.8 So2

English summary.

22614 CANADA. BUR. OF STATISTICS. INDUSTRY AND MERCHANDISING DIV. GENERAL MANUFACTURES SECT. Report on the sugar industry in Canada, 1947. Ottawa, 1948. 10 p. 253 C3321

22615 CUBA. MINISTERIO DE AGRICULTURA. NEGOCIADO DE ASUNTOS AZUCAREROS. *Zafra de 1948*. Habana, 1948. 9 p. 65.9 C896

Statistics.

22616 CZARNIKOW, C., LTD. The world sugar situation; prospects for 1949: currency restrictions on free market. *So. African Sugar J.* 32: 593, 595, 597. Oct. 1948. 65.8 So8

22617 DAVIDSON, F. A. Values of sugar. *Confectionery-Ice Cream World* 40(26): 13. Dec. 24, 1948. 389.8 C767

22618 DEINUM, H. Native sugar. (In Dutch.) In: Hall, C. J. J. Van, and Koppel, C. Van. *De landbouw in de Indische Archipel*. Deel IIa, p. 405-426. Ref. 's-Gravenhage, 1948. 37 H14L

22619 DUBOURG, J. Le controle de la diffusion. *Indus. Agr. et Aliment.* 65: 203-207. July/Sept. 1948. 383 As7

Summary in German, English, Spanish, and Italian. In sugar manufacture.

22620 EVANS, A. W. Drought and labour disturbances curtail sugar production in eastern Caribbean. *Foreign Trade* 4: 1249-1251. Dec. 18, 1948. 286.8 C162

22621 FARRELL, T. R. Alcohol and molasses. *Drug & Cosmetic Indus.* 63: 727, 816-817. Dec. 1948. 396.8 D842

22622 FAUSEL, W. Es geht um einen ausreichenden Rübenpreis. *Württemb. Wchnbl. f. Landw.* 115: 271-272. Oct. 2, 1948. 18 W96

Sugar beets.

22623 FAUSEL, W. Rübenpreis und zuckersteuer. *Württemb. Wchnbl. f. Landw.* 115: 359. Nov. 27, 1948. 18 W96



22624 FORT, C. A. Volumetric determination of small amounts of reducing sugars by a modified Lane-Eynon procedure. U. S. Bur. Agr. and Indus. Chem. AIC-207, 5 p. Oct. 1948. 1.932 A2Ag82

Sugar beet analysis.

22625 GANAPATHI IYER, G. SRI. Effect of composition on moisture absorption properties of jaggery. Indian J. Agr. Sci. 17: 341-351. Dec. 1947. 22 Ag831

22626 HANSSON, O. The sugar beet campaign on Gotland. (In Swedish.) Lantmannen 32: 804. Dec. 4, 1948. 11 L234

22627 HEYDT, G. Verwertung von neberezeugnissen aus der zuckerrübensirupgewinnung. Molkerei-Ztg. 1: 183-184. Dec. 6, 1947. 44.8 M735

22628 KONINGSBERGER, V. J. European sugarcane culture and sugar manufacture. (In Dutch.) In Hall, C. J. J. Van, and Koppel, C. Van. De landbouw in de Indische Archipel. Deel IIa, p. 278-404. Ref. 's-Gravenhage, 1948. 37 H14L

22629 LAGOS U., J. A. Como obtener dulce blanco o panela blanca. Honduras Agr. 4(40/46): 24. Mar./Sept. 1948. 6 H753

22630 LAMBORN & COMPANY, INC. Sugar down through the ages, by S. Schoenfeld. New York, 1948. 31 p. 286.365 L17Sug

22631 LOEFFLER, J. A picture of the molasses situation. Sugar B. 27: 100, 108-109. Jan. 1949. 65.9 Am32

22632 MCCLEERY, W. L. Experimentos: para clarificación de azúcar. Rev. Nac. de Cien. Polit.-Econ.-Sociales 8(84): 18. Nov. 1948. 280.8 R3295

22633 OTTOSSON, A. The sugar beet campaign in Östergötland. (In Swedish.) Lantmannen 32: 788. Nov. 27, 1948. 11 L234

Acreage and harvesting.

22634 PAYNE, J. H. Ion exchange investigations on cane juice. (Abs.) Hawaiian Acad. Sci. Proc. (1947/48) 23: 7. 1948. 500 H31A

22635 PENDLETON, W. C. Política azucarera norteamericana. Agrotecnia 2: 618-639. Aug./Sept. 1948. 8 Ag825

22636 PRASAD, M. Sugar-cane unions in Bihar. Indian Co-op. Rev. 14(1/2): 53-56. Jan./June 1948. 280.28 In2

22637 PROSTERMAN, A. M. The world sugar situation at the turn of the year. Foreign Com. Weekly 33(12): 3-6, 42-43. Dec. 20, 1948. 157.54 F763

22638 REICH, G. T. Sugar refining (cane and beet) by-products. (Abs.) Brewers Digest 23(11): 48-49. Oct. 1948. 390.8 B75

22639 REVILLA, J. M. El problema de la industria cañera en Costa Rica. Suelo Tico 1: 33-38. Aug. 1948. 8 Su2

Costa Rica.

22640 ROY, P. An improved process of cane juice clarification. Sci. Club. J. 2: 19-20. Aug. 1948. 475 Sci29

22641 ROY, S. C. Final note on production of sugar directly from cane in vacuum pan sugar factories in the Indian Union (including Hyderabad) for the season 1947-48. Indian Trade J. 171: 102-107. Oct. 21, 1948. 286.8 In24

22642 SCHMIEDEL, H. Die zuckerrüben-kampagne 1948/49 und ihre technischen voraussetzungen. Versorgung 3: 22. Sept. 1948. 280.8 V61

Russian Zone of Germany.

22643 SCHOENFELD, S. Cuna lejana: el azúcar a través de los siglos. Rev. Nac. de Cien. Polit.-Econ.-Sociales 8(84): 15-16. Nov. 1948. 280.8 R3295

22644 SHAMSHURIN, A. A. 200 years since the discovery of sucrose in sugar beets. (In Russian.) Priroda 37(10): 93-94. Oct. 1948. 410 P933

22645 SHRIKHANDE, J. G. Deodorized syrup from gur and khandsari molasses. Indian Farming 8: 291. June 1947. 22 In283

22646 STEVENSON, G. C. Deterioration of sugar-cane varieties. (In Portuguese.) Fazenda 43(10): 64. Oct. 1948. 6 H11P

22647 TEJADA, J. DE. Agricultura cañera internacional. Labor 7(173): 3, 5; (175): 3. Nov. 20, Dec. 17, 1948. 8 L11

22648 TIMOSHENKO, V. P. The Sugar Act of 1948. Farm Policy Forum 1(4): 59-63. Oct. 1948. 281.8 F2274

22649 TORNEGÅRD, O. The sugar beet campaign on Öland. (In Swedish.) Lantmannen 32: 843. Dec. 18, 1948. 11 L234

22650 WERQUIN, V. Emploi rationnel de la chaux et du CO<sub>2</sub>. Indus. Agr. et Aliment. 65: 209-211. July/Sept. 1948. 383 As7

Summary in German, English, and Italian.

In sugar manufacture.

22651 WILLCOX, O. W. New developments in ion-exchange. Sugar 43(12): 27-29. Dec. 1948. 65.8 F11

22652 WITT, L. W. Recent developments in United States sugar policies. Mich. Agr. Expt. Sta. Q. B. 31: 204-214. Nov. 1948. 100 M58S

## TOBACCO

22653 BUNKER, F. H. Interesting account of the changing picture of Puerto Rican leaf planting, manufacture. Tobacco [New York] 127(27): 15-16, 31-32. Dec. 30, 1948. 286.89 T552

22654 COOK, F. T. South Africa produces sufficient Turkish tobacco to meet needs. Foreign Trade 5: 15-18. Jan. 1, 1949. 286.8 C162

22655 COOK, F. T. Tobacco in the Union of South Africa. Overseas Rpt. Agr. Dvlpmnt. 17, 4 p. Nov. 1948. 281.9 C1642O

22656 FUSTE, V. Government assistance still required in quota limitation of Island crops. Tobacco [New York] 127(27): 17. Dec. 30, 1948. 286.89 T552

22657 HUNT, R. How to prepare tobacco for market. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 63(11): 15, 114. Nov. 1948. 6 P945K

22658 HUTSON, J. B. Foreign outlook for American leaf. South. Planter 109(12): 18-19. Dec. 1948. 6 So89

22659 ORTIZ, J. B. From the immediate past Puerto Rico learns lesson for the present and for the future. Tobacco [New York] 127(27): 13-14, 32-33, 35, 37-38. Dec. 30, 1948. 286.89 T552

22660 SESSELER, W. M., and SPOON, W. Observations on the chemical changes during the fermentation of tobacco. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 660-666. Oct. 1948. 86 N384

English summary.

22661 VIEIRA, L. M. Economic situation of tobacco. (In Portuguese.) Observador Econ. e Financeiro 13(153): 65-66. Oct. 1948. 280.8 Ob72

## MISCELLANEOUS PRODUCTS

22662 BANKS, A. Freezing and cold storage of fish. Food Indus. So. Africa 1(3): 29-30. July 1948. 389.8 F372

22663 CASTILLO, L. La zarzaparrilla. Rev. Mens. B. A. P. 31(371): 15. Oct. 1948. 9 R326

As a source of testosterone.

22664 HILBERT, F. L. The technology of tanning: wattle bark. Leather & Shoes 116(24): 29-33. Dec. 11, 1948. 303.8 H53

22665 JAMET, A. Rapport de la Commission d'Analyse Tannique Qualitative. Assoc. Franç. des Chim. des Indus. du Cuir. B. 10: 147-152. Sept. 1948. 303.8 B87

22666 LARSEN, S. A., REITZ, W., and BURGUM, K. Markets for airborne seafoods. Wayne U. Stud. Air Transport 5, 120 p. Detroit, 1948. 289.59 W36

22667 MARKELL, E. L. American vs European hops. Hopper 5(8): 2-6. Nov. 1948. 70.8 H77

22668 MARKELL, E. L. Hop marketing agreement and marketing problem. Hopper 5(7): 2-5. Nov. 5, 1948. 70.8 H77

22669 MITCHELL, T. Freezing of shrimp at Biloxi, Miss. plant. Fishing Gaz. 65(13): 56, 58. Dec. 1948. 286.85 F53

22670 MONNET, C. Les tanins végétaux dans l'Union Française. Assoc. Franç. des Chim. des Indus. du Cuir. B. 10: 159-165. Oct. 1948. 303.8 B87

22671 NIEBUHR, T. Müssen die 1945 in der Tschechoslowakei beschlagnahmten saazer und auschaer hopfen in den bilanzen der deutschen hopfenkaufleute und brauereien aktiviert werden. Brauwelt 21: 424-427. Oct. 7, 1948. 390.9 B732

22672 POTTINGER, S. R. Packaging and storing frozen fish products. Frozen Food Indus. 4(12): 12-13, 23-25. Dec. 1948. 389.8 F93

22673 PROBLEMS in freezing and packaging oysters. Quick Frozen Foods 2(5): 61-62, 80, 91. Dec. 1948. 389.8 Q4



- 22674 ROWELL, P. T. Highlights of the hop marketing agreement proposal. *Hopper* 5(8): 7. Nov. 1948. 70.8 H77
- 22675 SWINGEN, J. L., BRYANT, W. G., and LAURIE, A. Summary of Ohio research on marketing prepackaged flowers. *Florists' Rev.* 103(2665): 23-26. Dec. 23, 1948. 80 W41
- 22676 U. S. BUR. OF AGRICULTURAL ECONOMICS. Outlook for hops from the Pacific Coast. Washington, 1948. 40 p. 1.941 S2H77
- 22677 VERMEULEN, C. Bekanntes und unbekanntes vom hopfen. *Brauwelt* 18: 377-379. Sept. 2, 1948. 290.8 B732

# AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

## GENERAL

- 22678 ALLEN, W. H. Uneasy farm prosperity. *N. J. Farm & Gard.* 19(11): 6. Nov. 1948. 6 G162
- 22679 BUTZ, E. L. The perils of prosperity. *Country Gent.* 118(11): 15, 75-76, 78. Nov. 1948. 6 C833
- The economic situation and outlook.
- 22680 CHEN, C. H. The rural economic geography of Japan. (In Chinese.) *Cent. Bank Monthly* 3(8): 37-53. Aug. 1948. 280.9 C335
- 22681 DAALEN, C. K. VAN. Economic research in American agriculture. (In Dutch.) *Netherlands. Landbouvoorlichtingsdienst. Maandbl.* 5: 456-463. Oct. 1948. 12 N383M
- 22682 DAS, N. K. Agricultural economy of the Apa Tanis. *Indian Farming* 8: 294-298. June 1947. 22 In283
- 22683 DATE, A. The prosperity of Belgium. *Rur. Bank N. S. Wales. Farm Front* 6: 133-137. Sept. 1948. 281.9 R883
- 22684 DURON, J. F. Honduras y la Comisión Económica para América Latina. *Cám. de Com. e Indus. de Tegucigalpa. B.* 2(22): 16-18. Sept. 1948. 287 T23
- 22685 EASTMAN, E. R. "The lifeline of America." *Amer. Agr.* 145: 629, 641. Dec. 4, 1948. 6 Am3
- Industry and agriculture.
- 22686 JAUME, J. Economía balear. *Balearic Isl. Diputación Prov. B. de Agr.* 46: 4-6; 47: 11-12. July-Aug. 1948. 15 B19
- 22687 REBIFFÉ, H. Le Plan Marshall. *Défense Agr. de la Beauce et du Perche* 45: 313-314. Nov. 20, 1948. 14 D36
- 22688 RIVERA HERNÁNDEZ, A. Panorama económico de América Latina. *Cám. de Com. e Indus. de Tegucigalpa. B.* 2(23): 43-47. (To be cont.) Oct. 1948. 287 T23
- 22689 TIMM, T. R. The interdependence of town and country prosperity. *Sheep & Goat Raiser* 29(3): 72-73, 75. Dec. 1948. 45.8 Sh3
- 22690 VIDAL FERNÁNDEZ, B. Economía política [Spain]. *Ceres [Valladolid]* 12(148): 11, 13. Oct. 1, 1948. 15 C33
- 22691 WALL, N. J. Financial outlook for agriculture. *Banking* 41(6): 54-55. Dec. 1948. 284.8 Am3
- 22692 WICKENS, A. J. Business and consumers' outlook for 1949. Washington, U. S. Bur. Agr. Econ., 1948. 9 p. 1.941 A2B96
- 22693 WILCOX, W. W. What makes farm prosperity? *Farm Policy Forum* 1(4): 51-56. Oct. 1948. 281.8 F2274
- 22698 FORTUNE, J. Le paysan français face au paysan étranger. *Foyer Rur. [Paris]* 11(56): 1. Nov. 21, 1948. 14 F83
- Purchasing power.
- 22699 STRUNZ, H. —und wieviel formulare noch? *Wiener Bauernbündler* 1(15): 5. Nov. 13, 1948. 19 W632
- Currency reform.

## Credit

- 22700 BRAY, F. R. Rural credit in New Zealand. *New Zeal. Dept. Agr. B.* 279: 77-84. 1947. 23 N48Bu
- 22701 CANADA. CANADIAN FARM LOAN BD. Report... for the year ended March 31, 1948. Ottawa, 1948. 23 p. 284.29 C16
- 22702 CHUNG, C. M. Issuance of land bonds and land credit operation. (In Chinese.) *Monthly Farmers' Bank China* 9(6): 6-13. June 1948. 281.9 F225M
- English summary, p. 2-3.
- 22703 CONSORZIO NAZIONALE PER IL CREDITO AGRARIO DI MIGLIORAMENTO. SERVIZIO TECNICO AGRARIO. Entità e destinazione dei finanziamenti effettuati... dal 1928 al 1947 [Amount and destination of finances... 1928 to 1947]. Rome, 1948. 58 p. 284.29 C764
- 22704 DANFORTH, D. Profitable business for somebody; does the banker want it? *Amer. Feed & Grain Dealer* 32(10): 11, 32-33. Nov. 1948. 298.8 C83
- Extension of credit by feed dealers.
- 22705 DU PLESSIS, C. V. H. Agricultural credit. (In Afrikaans.) *Landbouweekblad* 30(1528): 42, 45. Oct. 27, 1948. 24 L232
- 22706 GAUTIER-WALTER, A. Les difficultés de l'installation des jeunes exploitants ruraux. *Monit. Agr.* 1(48): 3. Dec. 12, 1948. 14 M744
- Credit in France.
- 22707 LAURENCE, E. P. B. Is the farmer a good credit risk? *Plumbing and Heating J.* 120(1): 94-96. Jan. 1949. 291.8 P73
- 22708 LUZ FILHO, F. Cooperative themes. (In Portuguese.) *Soc. Coop. da Indús. Pecuária do Pará. B.* 16(70): 1-3. Sept. 1948. 280.2409 S01
- Includes agricultural credit.
- 22709 MACKIEWICZ, P. A propos des bons d'équipement! *Colon. Franç. de Tunisie* 58(2076): 1. Dec. 4, 1948. 24 C712
- 22710 MAITS, B. Community-service bank. *Country Gent.* 118(11): 30, 125-128. Nov. 1948. 6 C833
- Loan policies of the Bendersville National Bank, Adams County, Pennsylvania.
- 22711 NEWMAN, O. D. An approach to the personnel problem in country banks. *Bank News* 48(61): 15-16, 32. Dec. 15, 1948. 284.8 B224
- 22712 PELKA. Die schuldverhältnisse nach der währungsreform. *Württemberg. Wchnbl. f. Landw.* 115: 295. C't. 23, 1948. 18 W96
- 22713 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Qué es una cooperativa de credito. *Puerto Rico. Agr. Col. Ext. Dept. Coop. P.* 19, rev., 9 p. May 1948. 275.29 P962
- 22714 RAMENGHI, A. Rural banks. (In Italian.) *Italia Coop.* 3(38): 2. Sept. 16, 1948. 280.28 It1
- 22715 REITZ, T. R. Farmer-banker relations and problems. *Kans. Banker* 38(11): 12-13, 15. Dec. 1948. 284.8 K13
- 22716 RENNEFELD. Absatzfinanzierung. *Landtechnik* 3: 328-329. (Cont.) Sept. 30, 1948. 58.8 L235
- Germany.
- 22717 RESERVE BANK OF INDIA. Report of the thirteenth annual general meeting of shareholders, 4th August, 1947. Bombay, 1948? 53 p. 284.9 R31R
- 22718 ROGERS, R. W. Cannery and their financing. *Canning Trade* 71(24): 36, 38, 40. Jan. 3, 1949. 286.83 T67
- Credit.
- 22719 ROMERO E., E. La agricultura y el crédito. *Rev. de Econ.* 11(11): 9-11. Nov. 15, 1948. 280.8 R3253
- Mexico.
- 22720 SCRUGGS, C. G. Country bankers are waking up; a country bank's welfare usually depends on good farming. Here is what some banks are doing to encourage it. *Prog. Farmer, Tex. Ed.* 63(11): 16, 114. Nov. 1948. 6 T311

## AGRICULTURAL FINANCE

- 22694 BRANNAN, C. F. Farm purchasing power the determining factor. *Farm Equip. Retailing* 7(1): 20. Jan. 1949. 58.8 F2292
- 22695 CAWSEY, E. W. The International Bank for Reconstruction and Development. *Rur. Bank N. S. Wales. Farm Front* 6: 140-143. Sept. 1948. 281.9 R883
- 22696 DATE, A. Economic co-operation (Marshall aid) and the sterling area. *Rur. Bank N. S. Wales. Farm Front* 6: 137-140. Sept. 1948. 281.9 R883
- 22697 DRUCE, P. C. Farm budgeting. *Agr. Gaz. N. S. Wales* 59: 471-472. Sept. 1948. 23 N472



22721 TAMAGNINI, G. Federational organization of the rural artisans banks. (In Italian.) Ital. Coop. 3(44): 2. Oct. 28, 1948. 280.28 It1

22722 TAYLOR, B. Bank that yams built. Sweet Potato J. 3(4/6): 10-13. Apr./June 1948. 80 Sw32 In Sunset, Louisiana.

22723 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. Compilation of corporate charter by-laws and of laws, Executive Orders, and regulations applicable to Commodity Credit Corporation. Washington, 1949. 164 p. 1.918 C73

22724 U. S. PRODUCTION AND MARKETING ADMIN. Commodity Credit Corporation; charts providing a graphic summary of operations, 1933-June 30, 1948. Washington? 1948. 31 p. 1.957 C38

22725 U. S. RURAL ELECTRIFICATION ADMIN. 1947 annual statistical report. Washington, 1948? 118 p. 1.933 F49

Loan allocation, construction, operating, and financial statistics for Rural Electrification Administration borrowers.

22726 VIDAL FERNÁNDEZ, B. Los pósitos. Ceres [Valladolid] Sup. Inform. 12(407): 5. Oct. 15, 1948. 15 C33 suppl.

Obtainment of credit through public granaries.

#### Income

22727 AIKEN, G. D. Dairy farmers' income to stay on 1948 level. Dairymen's League News 32(26): 8. Dec. 28, 1948. 44.8 D1432

22728 DIAS BRANDAO, E. Variations in business factors and their relation to labor income. N. Y. Agr. Col. Farm Econ. 164: 4237-4238. Nov. 1948. 280.8 C812

22729 LIONBERGER, H. F. Low-income farmers in Missouri: situation and characteristics of 459 farm operators in four Social Area B counties. Mo. Agr. Expt. Sta. Res. B. 413, 32 p. Apr. 1948. 100 M693

22730 MCDOUGALL, J. L. Agricultural income. Weekly Mkt. News & Mod. Farmer 26(52/53): 3, 10. Dec. 23, 1948. 286.81 G762A

Canada.

22731 NODLAND, T. R. Earnings of beginning farmers. Minn. U. Agr. Ext. Farm Business Note 310: 1-2. Nov. 29, 1948. 275.29 M663

22732 PARTAIN, L. U. S. gross farm income for 1948 reaches all-time record high. Rur. Mktg. 3(12): 1-2. Dec. 1948. 280.328 R88

22733 SMITH, F. V. How some farmers earned more than others in 1947. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1948: 5-6, 7. Nov. 20, 1948. 275.29 In2En

22734 SOUTH DAKOTA. COOPERATIVE CROP AND LIVESTOCK REPORTING SERVICE. South Dakota cash farm income; supplement to South Dakota Agriculture 1947. Sioux Falls, 1948? 4 p. 252.79 T192

#### Inflation

22735 BOTTUM, J. C. Inflation and monetary policy. Nation's Agr. 24(1): 8, 11, 21. Jan. 1949. 280.82 B89

#### Insurance

22736 ARWIDSSON, E. The insurance problem in a province of smallholders. (In Swedish.) Skand. Kreatursförsäkringsbolaget. Månadsblad 26: 121. Nov. 1948. 49.9 Sk1

Livestock.

22737 PETIT-LAURENT. Petit guide pratique de l'assuré à la campagne. I. Comment et pourquoi s'assurer contre l'incendie et la mortalité du bétail? Foyer Rur. [Paris] 11(57, sup.), 8 p. Nov. 28, 1948. 14 F83

22738 ROMMEL, C. Die schweizerische hagelversicherung in kriegszeiten. Schweiz. Landw. Monatsh. 1948: 333-345. Ref. Oct. 20, 1948. 17 Sch93

22739 U. S. FEDERAL CROP INSURANCE CORPORATION. Multiple crop insurance, 1949; summary of major program provisions. Washington, 1948. 6 p. 1.952 M91

22740 U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 loss adjustment manual for multiple crops. Washington, 1948. 25 p. 1.952 L898

Tentative.

22741 U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 corn. Washington? 1948. 12 p. 1.952 F112

22742 U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 Federal cotton crop insurance. Washington, 1948. 11 p. 1.952 Sa32

22743 U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 Federal flax crop insurance. Washington? 1948. 11 p. 1.952 F315

#### Taxation

22744 CONNECTICUT. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The farmer's 1948 income tax. Conn. Agr. Col. Ext. B. 410, 16 p. Oct. 1948. 275.29 C76B

22745 CORBUCCI, A. In the tax mire. (In Italian.) Terra [Firenze] 59(46): 1, 3. Nov. 14, 1948. 16 T274

22746 DENMARK. STATISTISKE DEPARTEMENT. Impôts sur les immeubles et sur les personnes 1947/48. (In Swedish.) Denmark. Statis. Dept. Meddel. (ser. 4) 134(1), 223 p. København, 1948. 257.1 St2M

Includes rural communities.

22747 HALL, I. F. Farmers' 1948 income tax. Momence Co-op Milk-o-lets 3(9): 5. Dec. 15, 1948. 280.28 M73

22748 KIPP, W. Erlass der grundsteuer auf kriegsbeschädigten grundbesitz in der britischen zone. Brauwelt 1948(3): 54-55. Feb. 5, 1948. 390.8 B732

22749 KOCH, H. Neuregelung über die berücksichtigung der kriegsschäden bei der grundsteuer. Brauwelt 1948(3): 53-54. Feb. 5, 1948. 390.8 B732

Germany.

22750 KRIEGER, F. Die getreidewert-veranlagung. Allgäuer Bauernbl. 16: 286-287. Nov. 12, 1948. 18 AL53

22751 NEILL, R. A. Huge federal land area is tax exempt. Mont. Stockgrower 20(11): 22-24. Nov. 15, 1948. 49 M76

22752 NERTINGER, J. Die steuerliche vergünstigung der molkereigenossenschaften und die genossenschaftsbewegung als volkswirtschaftliches problem. Süddeut. Molkerei-Ztg. 69: 414-417. Oct. 21, 1948. 44.8 Su2

22753 STRUNZ, H. Die einkommen- und umsatzsteuerpauschalierung der erwerbsgärtner. Wien. Bauernbündler 1(13): 2-3. Oct. 16, 1948. 19 W632

22754 STRUNZ, H. Geänderte lohnsteuerberechnung. Landwirtschaft 1948: 255-256. Sept. 18, 1948. 19 L235

Austria.

22755 STRUNZ, H. Richtigstellung der einheitswerte. Salzburg. Bauer 3(38): 13-14. Sept. 16, 1948. 19 Sa3

Taxation.

22756 STRUNZ, H. Verzugszinsen oder säumniszuschläge. Salzburg. Bauer 3(40): 4. Sept. 30, 1948. 19 Sa3

22757 TIMM, T. R. Your income tax for 1948. Prog. Farmer, Miss.-Ark.-La. Ed. 63(11): 42, 43. Nov. 1948. 6 Sc81

22758 TOSATTI, R. M. The progressive extraordinary tax on inheritance. (In Italian.) Agr. Bresciana 1(40): 1. Oct. 6, 1948. 16 Ag89

22759 WERNECK, A., JR. The Rio de Janeiro plan. Land & Liberty 55: 202-203. Nov./Dec. 1948. 282.8 L222

Land taxation.

#### AGRICULTURAL LABOR AND WAGES

22760 ACQUAVIVA, F. Occupation and income of certain wage-earning family groups in the Campagna region. (In Italian.) Riv. di Econ. Agr. 3: 404-413. 1948. 281.8 R52

English summary, p. 413.

22761 ANDALÒ, G. Productive enterprise and unemployment in agriculture [Italy]. (In Italian.) Terra e Sole 73/74: 733-735. Nov. 1948. 16 T273

22762 BECKERICH, A. Congés payés en agriculture. Agr. Prat. 112: 350. Oct. 1948. 14 J82

22763 BERCKES, H. C. The wage-hour law—retrospective and prospective. South. Lumberman 177(2225): 137-138. Jan. 3, 1949. 99.81 S682

22764 BUTLER, J. B. Farm wages and earnings in the northern counties 1943-46. King's Col. Farm Econ. Br. Rpt. G 22, 14 p. Newcastle-upon-Tyne, n. d. 281.9 K61

22765 DUCOFF, L. J. Farm laborers. In Taylor, C. C., and others. Rural life in the United States, p. 281-294. New York, 1949. 281.2 T21R



- 22766 DU PLESSIS C. v. H. Farm labor shortage in the Free State. (In Afrikaans.) Landbouweekblad 30 (1553): 36. Dec. 1, 1948. 24 L232
- 22767 FITZSIMMONS, J. R. Help from public agents in the supply of labor. Iowa State Hort. Soc. Proc. 82: 281-282. 1948. 81 Io9
- 22768 FLACH, G. Economies de main-d'oeuvre en viticulture. Rev. Agr. de l'Afrique du Nord 46: 558-559. Nov. 5, 1948. 80 R326
- 22769 FONTAINE, R. L'application de la loi du 10 mars 1948 sur la durée du travail et le repos hebdomadaire en agriculture. Agr. Prat. 112: 356-358. Oct. 1948. 14 J82  
France.
- 22770 GOODWIN, R. C. Freer flow of Mexican workers to cotton fields to be set up by government in 1949. Cotton Trade J. 30(3): 9, 13. Jan. 21, 1949. 72.8 C8214
- 22771 GREEN, E. An investigation of changes in labor costs in larger milk plants. (In Swedish.) Svenska Mejeritidningen 40: 439-442. Nov. 27, 1948. 44.8 Sv2
- 22772 HARALDSON, A. Time study activities of the Swedish Rural Employers' Association and their special bearing on sugar beet cultivation. (In Swedish.) Socker 4: 183-193. Sept. 1948. 65.8 Sol  
English summary.
- 22773 HOMBURG, H. Kann der bauer bei gleichem handarbeitsaufwand seine zuckerrübenanbaufläche vergrößern? Land, Wald u. Garten 3: 137. June 1948. 18 L22
- 22774 KENNEDY, S. Day labor and the station system. Iowa State Hort. Soc. Proc. 82: 296. 1948. 81 Io9
- 22775 LAGARDE, J. L'organisation scientifique du travail agricole. Acclimatation 75: 224. Oct. 23, 1948. 14 Ac2
- 22776 LARSEN, P. Working hours in agriculture. (In Danish.) Dansk Landbr. 67: 466-467. Dec. 2, 1948. 280.28 V91
- 22777 LAS CASES, E. DE. L'allocation aux vieux travailleurs salariés. Unité Paysanne 3(155): 3. Oct. 23, 1948. 14 Un3  
France.
- 22778 MELSE, J. K. Labor supply in agriculture and the agricultural information. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 5: 326-330. July 1948. 12 N383M
- 22779 MERCIER, J. Les migrations saisonnières agricoles en Belgique. Louvain. U. Catholique. Inst. de Rech. Econ. et Sociales. B. 13: 805-831. July 1947. Ref. 280.9 L92
- 22780 MOROZOV, P. To improve the management and payment of labor in collective farm horse breeding. (In Russian.) Konevodstvo 18(3): 10-12. May/June 1948. 42.8 K832
- 22781 MURPHY, R. G. Preliminary time "standards" for milking cows. N. Y. Agr. Col. Farm Econ. 164: 4238-4240. Nov. 1948. 280.8 C812
- 22782 NATIONAL FARM LABOR UNION. EXECUTIVE BOARD. Agricultural labor in 1948; report... to the 15th annual convention. n. p., 1948. 14 p. 283.9 N215
- 22783 QUAMME, A. G. Supplies of Mexican labor. Iowa State Hort. Soc. Proc. 82: 282. 1948. 81 Io9
- 22784 ROSENBAUM, R. Farm labor shortages complicate milk production. South. Dairy Prod. J. 44(6): 7, 48-52. Dec. 1948. 44.8 So83
- 22785 ROSENSTAND, T. The farmer and his helpers. (In Danish.) Dansk Landbr. 67: 473-475. Dec. 9, 1948. 280.28 V91  
Youth.
- 22786 SANDIFER, T. N. Unions planning drive to enroll farm help. Natl. Live Stock Prod. 27(4): 11. Jan. 1949. 280.38 N21
- 22787 SULLIVAN, M. C. Supplies of Mexican labor for 1948. Iowa State Hort. Soc. Proc. 82: 282-285. 1948. 81 Io9  
Includes notes by other growers.
- 22788 UHLIRS, J. Die landarbeiter in den bäuerlichen betrieben und ihre löhne. III. Landarbeiter-Archiv 3: 258-262. Sept. 1948. 283 L23
- 22789 WIGGIN, D. C., JR. Sanitation for farm laborers in 1948. Conn. Health B. 62: 279-282. Nov./Dec. 1948. 449.7 C76C
- AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS
- 22790 ALAVI, S. M. Z. Arab geography in the ninth and tenth centuries A. D., agricultural and economic. Indian Geog. J. 23(2): 40-67. Apr./June 1948. 331.8 In2
- 22791 AMERICAN FARM BUREAU FEDERATION. Resolutions adopted at 30th A. F. B. F. convention. Amer. Farm Bur. Fed. Off. Let. 27(26): 2-7. Dec. 22, 1948. 280.83 Am3N
- 22792 ARAGON MONTEJO, J. La revancha del campo (apuntes de política agraria). Agr. 45: 173-175. (Cont.) Sept. 1948. 33.23 Ag3
- 22793 ARCHER, L. T. The nation is what it eats; farmers' responsibility in taking the lead towards a national food policy. Farmer's Weekly [Bloemfontein] 76: 111, 113. Dec. 1, 1948. 24 F225
- 22794 AROSTEGUY, A. J. Problemas de evolución agraria [Uruguay]. Fed. Rural Rev. (ser. 3) 11(30): 178-181. July 1948. 9.9 R322
- 22795 BABO, VON. Die zukunft der landwirtschaft [Germany]. Saat u. Ernte 3(1): 5-7. Jan. 1948. 18 Sa12
- 22796 BARCELÓ, J. L. Asistencia técnica y financiera a la agricultura lusitana. Ceres 13(147): 10-11. Sept. 1, 1948. 15 C33
- 22797 BINDER. Wie sind fortschritte in der landwirtschaft möglich? Allgäuer Bauernbl. 16: 265-267. Oct. 29, 1948. 18 AL53
- 22798 BOILEAU, J. E. Le voyage de liaison rurale: Rivière la-Paix. II. Terre de Chez Nous 21(7): 11, 20. Nov. 10, 1948. 7 T27
- 22799 BONNICEL, R. La crise agricole danoise. Agriculture [Paris] 12: 315. Oct. 1948. 14 Ag823
- 22800 BORDING, K. Better prospects for Danish agriculture. Danish Foreign Off. J. 3: 1-3. July/Sept. 1948. 286.8 D22
- 22801 BRANNAN, C. F. The agricultural pendulum. Washington, U. S. D. A., 1948. 1.91 A2B73  
The agricultural situation.
- 22802 BRAUN, O. Cultivos y alimentos yungueños. Campo [La Paz] 2(18): 80-84. Oct. 1948. 9.1 C15
- 22803 BURNES, M. M. Agriculture in 1948. N. Y. State Com. Rev. 2(12): 2-4. Dec. 1948. 286.8 N4822
- 22804 BUSH, R. Raymond Bush looks down the years. Grower 30: 667-668, 670. Oct. 23, 1948. 286.83 M34  
Agriculture.
- 22805 CANALETTI GAUDENTI, A. Italian agricultural production. (In Italian.) Gior. di Agr. 58: 287. Oct. 17, 1948. 16 It1G
- 22806 CEPÉDE, M. Le plan agricole. (Sum.) Cahiers des Ingén. Agron. 2(20): 30-31. Feb. 1947. 14 C112  
Text in French and English.
- 22807 CHAPRON, C. Comment on dresse les villes contre les campagnes. II. Unité Paysanne 3(155): 1, 4. Oct. 23, 1948. 14 Un3  
France.
- 22808 CHAPRON, C. Le conseil économique et l'agriculture; que deviennent les propositions présentées par la C.G.A.? Unité Paysanne 3(158): 1, 4. Nov. 13, 1948. 14 Un3
- 22809 CHARBONNEAU, A. Voyage de liaison rurale d'un groupe du Québec dans les centres français de l'Ouest Canadien. Agriculture [Quebec] 5: 311-315. Sept. 1948. 7 Ag82
- 22810 CORNELISSEN, A. J. M. The influence of agriculture on political development. (In Dutch.) In Wageningse Hogeschoolvereniging. De functie van de landbouw in de maatschappij, p. 71-85. Wageningen, 1948. 281 W12
- 22811 CRAWLEY, W. B. From this day forward. Washington? U. S. Prod. and Mktg. Admin., 1948. 10 p. 1.956 A2C85  
Chiefly the Agricultural Conservation Program.
- 22812 DAY, W. M. The NE. spur of the Chota Nagpur Plateau (District of Santal Parganas). Indian Geog. J. 22: 107-126. July/Sept. 1947. 331.8 In2  
Discusses agriculture and land tenure.
- 22813 DISCHLEIT, J. Zukunftspläne in Europa; landwirtschaftliche produktionsziele von 26 staaten-absatzfragen von übermorgen. Ernährungsdienst 3(61): 3. Nov. 29, 1948. 389.8 Er62



- 22814 EDEN, A. A long-term policy for agriculture. *Land Union J.* 45: 136-139. Nov. 1948. 282.8 L22 Great Britain.
- 22815 ENGEMANN. Wird die landwirtschaft in den kommenden jahren mit einschneidenden betriebsumstellungen rechnen müssen? *Landw. Wehnl. f. Westfalen u. Lippe* 105: 50-51. Apr. 3, 1948. 18 L2346
- 22816 FITZGERALD, D. A. ECA [Economic Co-operation Administration] and the agricultural outlook. Washington, U. S. Bur. Agr. Econ., 1948. 5 p. 1.941 S2Ec7
- 22817 FITZGERALD, D. A. The farm outlook. *Flour & Feed* 49(8): 13. Jan. 1949. 298.8 F66
- 22818 FRIETEMA, H. J. La agricultura en los Países Bajos. *Siembra* 1948(8/9): 17-20. Aug./Sept. 1948. 15 S11
- 22819 FRIETEMA, H. J. Control and agriculture. (In Dutch.) In *Wageningse Hogeschoolvereniging. De functie van de landbouw in de maatschappij*, p. 55-70. Wageningen, 1948. 281 W12
- 22820 GAUTHIER, G. Problèmes agricoles et réalisations agronomiques. *Agriculture [Quebec]* 5: 240-243. Sept. 1948. 7 Ag82
- 22821 GRANDPRE, P. L'économie distributive incompatible avec l'abondance. *Unité Paysanne* 3(162): 2. Dec. 11, 1948. 14 Un3
- 22822 GREAT BRITAIN. BRITISH AGRICULTURAL MISSION TO SOUTH AMERICA. Summary of a report submitted to the Minister of Agriculture and Fisheries and the Secretary of State for Scotland, February to June, 1947. *Agr. Overseas*, Rpt. 8, 51 p. London, 1948. 10 Ag88
- 22823 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Hong Kong for the year 1947. London, 1948. 154 p. (Colon. Ann. Repts.) 286.02 C71 Agriculture, p. 47-54; Forestry, p. 54-55.
- 22824 GREAT BRITAIN. LAWS, STATUTES, ETC. Agriculture (Scotland) Act, 1948. London, H. M. Stationery Off., 1948. 88 p. 30.5 G79Sco
- 22825 GREW, R. India aiding agriculture to meet continuing shortages of food. *Foreign Trade* 4: 1187-1189. Dec. 11, 1948. 286.8 C162
- 22826 GUERRERO, J. F. La política agraria fronteriza. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 39(179): 21, 32. July/Aug. 1948. 8 R323
- 22827 GUNZBOURG, S. DE. La question agraire en Yougoslavie. *Agence France-Presse Inform. et Doc.* 218: 3-5. Dec. 18, 1948. 280.9 Ag3
- 22828 GUSLER, G. What's ahead for farmers in 1949? *Nebr. Farmer* 91: 5, 24. Jan. 1, 1949. 6 N27
- 22829 HAHNEL, E. S. The farmer eyes 1949. *Amer. Feed & Grain Dealer* 32(11): 10-11, 32. Dec. 1948. 298.8 C83
- 22830 HÅKANSSON, R. Swedish agriculture. V. (In Danish.) *Dansk Landbr.* 67: 442-443. Nov. 18, 1948. 280.28 V91
- 22831 HEUVEL, C. V. D. Commission for the study of agricultural policy. (In Dutch.) *Stichting v. den Landb. Meded.* 3: 327-328. Nov. 12, 1948. 12 S5 Netherlands.
- 22832 HOBSON, K. Keeping up on the farm outlook. *Wash. State Col. Ext. C.* 125, 6 p.-folder. Sept. 28, 1948. 275.29 W27C
- 22833 HOPE, C. R. Planning agriculture for the future. *Tex. Livestock J.* 7(12): 6, 80-81, 83. Dec. 15, 1948. 49 T29
- 22834 HORST, M. Pennsylvania agricultural situation. *Dairymen's League News* 32(26): 16. Dec. 28, 1948. 44.8 D1432
- 22835 HOULLIER, F. Cette paradoxale agriculture française. II. *Agr. Prat.* 112: 345-349. Oct. 1948. 14 J82
- 22836 HOWARD, SIR A. Can Britain feed herself? *Organic Farming Digest* 1(6): 24-25. July/Sept. 1947. 56.8 Or32
- 22837 HURD, A. What Britain is doing to feed herself. *Power Farming Austral.* 57(7): 33, 35. July 1948. 58.8 P87
- 22838 HYNES, E. 7 guides to a sound farm program. *Farm Policy Forum* 1(4): 47-49. Oct. 1948. 281.8 F2274
- 22839 JANINI JANINI, R. Agricultura valenciana. *Agr. Levantino* 14(167): 13-15. Oct. 1948. 15 Ag85
- 22840 JAUNE, R. Quelques aspects de l'influence de la guerre et de l'après-guerre sur l'agriculture belge. *Ann. de Gembloux* 54: 194-202. Third Quart. 1948. 13 G28
- 22841 JETER, F. H. A new pattern of farming in the deep South. *Victory Farm Forum* 33: 15-16. Dec. 1948. 281.8 F226
- 22842 KENNERKNECHT, H. Was sagen die Älpler vom letzten sommer? *Allgäuer Bauernbl.* 16: 285-286. Nov. 12, 1948. 18 AL53
- 22843 KIRKPATRICK, W. G. A country of vanishing windmills. *Mich. Farmer* 210: 399, 425. Dec. 18, 1948. 6 M58 Includes agriculture in the Netherlands.
- 22844 KLINE, A. B. What the farmers want. *U. S. News* 25(26): 42-45. Dec. 24, 1948. 280.8 Un33A Legislation expected by farmers.
- 22845 KRUIJT, J. P. The interrelations of thought and social form through the ages. (In Dutch.) In *Wageningse Hogeschoolvereniging. De functie van de landbouw in de maatschappij*, p. 3-19. Wageningen, 1948. 281 W12
- 22846 LATHAM, E. G. American farms. I. Farm prosperity is a fleeting thing. *Co-op Grain Q.* 6(3): 61-64. Winter 1948. 280.28 C7898
- 22847 LEPESME, P. Considérations sur l'économie présente et future de la Côte d'Ivoire. *Cahiers des Ingén. Agron.* 3(37/38): 14-17. July/Aug. 1948. 14 C112 Agricultural.
- 22848 LIN, S. N. The agricultural conditions of China in 1947. (In Chinese.) *Monthly Farmers' Bank China* 9(6): 31-49. June 1948. 281.9 F225M English summary, p. 6-7.
- 22849 LORBERG, K. Eine unlösbare aufgabe. *Ernährungsdienst* 3(57/58): 2. Nov. 18, 1948. 389.8 Er62 Agricultural outlook in Germany.
- 22850 LOUWES, S. L. A few requirements of agricultural policy. (In Friesian.) *Friesch Landbouwblad* 45(48): 5. Nov. 26, 1948. 12 F91
- 22851 LOVELAND, A. J. [Abundant agricultural production.] Washington, U. S. Prod. and Mktg. Admin., 1948. 3 p. 1.91 A2L94 Policy regarding a sustained agricultural abundance.
- 22852 LÜCKER, H. A. Geeinte kraft der deutschen landwirtschaft. *Landw. Wehnl.* 138: 309-310. Oct. 16, 1948. 18 L2338 Germany.
- 22853 MAYER, A. L'importance de la technique des industries agricoles dans la lutte contre la sous-alimentation mondiale. *Indus. Agr. et Aliment.* 65: 189-194. July/Sept. 1948. 383 As7 Summary in German, English, and Italian.
- 22854 MAYNARD, L. A. Agriculture advances human welfare. In Iowa. State Col. of Agr. and Mechanic Arts. Ninetieth anniversary celebration... 1858-1948, p. 8-13. Ames, 1948. 276 Io9Ni
- 22855 MEJIA, P. M. Aspectos de la agricultura en Colombia. *U. de Antioquia* 22: 543-546. Sept./Oct. 1948. 110 Un3
- 22856 MENDIS, G. C. Ceylon under the British. Ed. 2, rev. Colombo, Colombo Apothecaries', 1948. 138 p. 133 M52 Includes agriculture and trade.
- 22857 METIVIER, S. Récoltes présentes et futures. *Défense Agr. de la Beauce et du Perche* 45: 295. Nov. 1, 1948. 14 D36
- 22858 MOON, BYRON G., COMPANY. BUR. OF EDUCATIONAL SERVICES. Evolution of our national and family income. New York, 1947. 280.12 M772 Chapters, issued separately, include: Contribution of agriculture (our fountain of life) to health, happiness, prosperity; Contribution of motor vehicles to industry, farm, and home (with supplementary instructor material).
- 22859 MOOS, D. 1948—a good year; good crops & livestock have boosted resources of Pacific Northwest. *West. Livestock Rptr.* 9(20): 8, 61. Jan. 5, 1949. 286.85 W523
- 22860 MÖSE, G. Der deutsche gartenbau vor neuen aufgaben? *Land, Wald u. Garten* 2: 366. Dec. 1947. 18 L22
- 22861 MULLIE, G. L'évolution de l'agriculture belge en 1946. Louvain. U. Catholique. Inst. de Rech. Econ. et Sociales. B. 13: 447-464. July 1947. 280.9 L92
- 22862 MUNDY, D. B. Sweden adopts a four-year plan to achieve economic stability. *Foreign Trade* 5: 28-31. Jan. 1, 1949. 286.8 C162 Includes agriculture.



- 22863 MURRAY, K. A. H. The outlook for British agriculture. *Lloyds Bank Rev.* (n. s.) 11: 55-74. Jan. 1949. 284.8 L77
- 22864 NASU, H. Japanese agriculture in the future. *Ohara Inst. Agr. Res. Rpt.* 37(3): 1-5. May 1948. 22.5 N684
- 22865 NATIONAL ASSOCIATION OF COMMISSIONERS, SECRETARIES AND DIRECTORS OF AGRICULTURE. Proceedings, thirtieth annual meeting... Sept. 27, 28, 29, 30, 1948. n. p., 1948. 78 p. 4 N217
- 22866 NATIONAL GRANGE. A résumé of agricultural policy and program recommendations adopted... eighty-second annual session at Portland, Maine, November 10-19, 1948. Washington, D. C., 1948. 20 p. 4 P272R
- 22867 NICHTERLEIN. Zukunftsaufgaben der bayerischen landwirtschaft. *Landw. Wchnbl.* 138: 260-261. Sept. 18, 1948. 18 L2338
- 22868 NIEHAUS, H. Betrachtungen über die zukunft der landwirtschaft. *Beitr. Agrarwiss.* 1: 3-16. n. d. 18 B392
- 22869 NIKITIN, J. Die landwirtschafts-wissenschaft als entwicklungsfaktor der sowjetischen landwirtschaft. *Thür. Gartenbau* 1947(18): 2-3. Dec. 15, 1947. 80 T42
- 22870 NORTON, L. J. A long-term agricultural policy for the United States. *Acad. Polit. Sci. Proc.* 23: 99-106. Jan. 1949. 280.9 Acl
- 22871 NOSTI, J. Miscelánea agrícola (tercera serie). Spain. *Dir. de Agr. de los Ter. Españ. del Golfo de Guinea*. P. 13: 165-269. Madrid, 1948. 24 Sp2
- 22872 OLSSON, G. Agriculture in Norrbotten. (In Swedish.) *Skand. Kreatursförsäkringsbolaget. Månadsblad* 26: 107-108. Nov. 1948. 49.9 Sk1
- 22873 OREGON STATE COLLEGE. FEDERAL CO-OPERATIVE EXTENSION SERV. Oregon farms, an \$850,000,000 plant. *Oreg. State Col. Ext. C.* 524, 16 p. Oct. 1948. 275.29 Or32C
- 22874 OUDEMANS, T. C. Gedenkboek ter gelegenheid van het 100-jarig bestaan van Schovenhorst, 1848-1948 [Memorial volume on the occasion of the 100 years' existence of Schovenhorst, 1848-1948]. Putten, 1948? 3 v. 105.2 Ou2  
Includes agriculture and forestry.
- 22875 PAVLOVSKY, G. Agricultural reconstruction in the U. S. S. R. (In Italian.) *Riv. di Econ. Agr.* 3: 453-461. 1948. 281.8 R52  
English summary, p. 461.
- 22876 PERINI, D. Agricultural production in 1948. *Rev. Econ. Cond. Italy* 2: 406-409. Nov. 1948. 280.8 R3236
- 22877 PEYRONNET, R. Impressions marocaines. *Rev. Agr. de l'Afrique du Nord* 46: 525-527. Oct. 22, 1948. 80 R326
- 22878 POCTHIER, A. L'agriculture en Tunisie au seuil de la campagne 1948-1949. *Rev. Agr. de l'Afrique du Nord* 46: 586-587. Nov. 26, 1948. 80 R326
- 22879 PRAULT, L. La vérité sur notre agriculture. *Voix des Colons* 30(1477): 3. Nov. 8, 1948. 24 V85  
France.
- 22880 QUIRION, A. Le voyage de liaison rurale: le nord de l'Alberta. *Terre de Chez Nous* 21(3): 17. Oct. 13, 1948. 7 T27  
Agricultural.
- 22881 REMY, C. Aspects du problème agricole. *Acclimatation* 75: 239. Nov. 13, 1948. 14 Ac2  
France.
- 22882 RICHARZ, H. Der beitrage der landwirtschaft; gesteigerte leistungen vermehren das sozialprodukt [German]. *Wirtsch. Ztg.* 3(45): 5. Oct. 27, 1948. 280.8 W742
- 22883 RIEUL-PAISANT, M. L'agriculture européenne. *Monde Paysan* 3(122): 4. Nov. 15, 1948. 14 M742
- 22884 ROBERTSON, S. Agriculture and world food problem. *Ulster Farmer* 49(10): 24-25. Oct. 1948. 10 UL7
- 22885 RONCHI, V. From Argentina. South American impressions. II. (In Italian.) *Gior. di Agr.* 58: 323. Nov. 21, 1948. 16 It1G  
Agricultural.
- 22886 ROSA, S. de. How to give impetus to the South [Italy]. (In Italian.) *Risveglio Agr.* 7: 317. Sept. 15/30, 1948. 16 R49
- 22887 SCHIFFINO, J. La provincia de Barahona agrícola y forestal. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 39(179): 11-13. July/Aug. 1948. 8 R323
- 22888 SCHMIDT, W. Landwirtschaft oder gewerbe? Ueber die organische zugehörig des gartenbaues. *Wien. Bauernbündler* 1(10): 3-4. Sept. 4, 1948. 19 W632
- 22889 SCHREWE, E. Die landwirtschaft im schiefen licht. *Landwirtschaftsblatt Weser-Ems* 95: 255-257. Nov. 26, 1948. 18 L2345
- 22890 SINGH, U. Gosaba—a study in land reclamation in Sunderbans. *Indian Geog. J.* 23(1): 16-21. Jan./Mar. 1948. 331.8 In2  
Includes agricultural reconstruction.
- 22891 SMITH, R. C. What's ahead for agriculture. Washington, U. S. Bur. Agr. Econ., 1948. 5 p. 1.941 A2Sm62
- 22892 SMITS, J. VAN G., JR. Canada; land of fairy tales and hard reality. (In Dutch.) *Groenten en Fruit* 4: 264. (To be cont.) Nov. 4, 1948. 80 G89  
Includes agriculture.
- 22893 SOPER, J. R. P. Government and the small-holder. *Malayan Agr. J.* 31: 214-218. Oct. 1948. 22.5 F312
- 22894 SOUZA, A. O. DE. Agriculture as the basis of national wealth. (In Portuguese.) *Lav. Arroz.* 2(20): 5-7, 9-11. Aug. 1948. 59.8 L39
- 22895 SPAIN. DIRECCION DE AGRICULTURA DE LOS TERRITORIOS ESPAÑOLES DEL GOLFO DE GUINEA. Anuario agrícola de los territorios españoles del Golfo de Guinea, 1947. Spain. *Dir. de Agr. de los Ter. Españ. del Golfo de Guinea*. P. 13, 302 p. Madrid, 1948. 24 Sp2
- 22896 STAKMAN, E. C. Science and human subsistence; agriculture is the world's basic industry and farmers are the primary producers. *New Englan. Homestead* 121(23): 6, 10, 12. Dec. 11, 1948. 6 N442
- 22897 STEELE, W. C. Geographic conditions in Breathitt County, Kentucky. *J. Geog.* 47: 341-355. Dec. 1948. 278.8 J82  
Includes agriculture.
- 22898 STOCKBURGER, S. Das dänische beispiel. *Württemberg. Wchnbl. f. Landw.* 115: 269-270. Oct. 2, 1948. 18 W96  
Agriculture.
- 22899 SYKES, P. Agricultural production in Malaya. *Overseas Rpt. Agr. Dvlpmt.* 16, 3 p. Nov. 1948. 281.9 C1642O
- 22900 TEISSIER, G. Le droit rural. *Bouches du Rhone Agr.* 21(987): 16. Oct. 1, 1948. 14 B662
- 22901 TERADA, Y. A consideration on the retardation in agricultural technique. (In Japanese.) *Ohara Inst. Agr. Res. Rpt.* 37(1): 36-38. June 1947. 22.5 N684
- 22902 TETRO, R. C. What's ahead for agriculture? *Natl. County Agent* 4(12): 12-14, 30. Dec. 1948. 275.28 N213
- 22903 TINDALL, C. We'll remember 1948! *Mo. Ruralist* 89(24): 3, 17. Dec. 25, 1948. 6 R8891  
Farm progress in Missouri.
- 22904 TODARO, F. Notes on agricultural reconstruction. (In Italian.) *Risveglio Agr.* 7: 307-308. Sept. 15/30, 1948. 16 R49  
Italy.
- 22905 TOUSSAINT, A. Rénovation agricole ou faillite: les rôles de l'état et de l'initiative privée dans le programme de redressement. *Foyer Rur.* [Paris] 11(56): 3. Nov. 21, 1948. 14 F83
- 22906 VICINELLI, P. The situation with regard to agricultural reforms. *Rev. Econ. Cond. Italy* 2: 399-406. Nov. 1948. 280.8 R3236
- 22907 VIDAL, E. Programa de ayuda al pequeño agricultor. *Managua. Cdm. Nac. de Com. e Indus. B.* (ser. 3) 12(142): 37-43. June 1947. 287 M316
- 22908 VRIES, E. DE. The influence of world economics on agriculture, especially in the Netherlands. (In Dutch.) In *Wageningse Hogeschoolvereniging. De functie van de landbouw in de maatschappij*, p. 42-54. Wageningen, 1948. 281 W12
- 22909 WELLS, O. V. Agriculture today. *Natl. Assoc. Comnrs., Secs. and Dir. of Agr. Proc. Ann. Mtg.* (1948) 30: 42-46. 4 N217
- 22910 WILLNER, G. Gedanken über die zukunft unserer deutschen landwirtschaft. *Molkerei-Ztg.* 1: 197. Dec. 20, 1947. 44.8 M735

## Subsidies

- 22911 CERCLER, R. Les subventions économiques: le problème du beurre. *Monit. Agr.* 1(47): 1. Dec. 5, 1948. 14 M744  
France.



22912 JONES, J. M. National wool program. Suggested method for change in governmental support of wool growing industry through direct subsidy based on actual production of fleeces. *Calif. Wool Grower* 24(48): 3. Nov. 30, 1948. 45.8 C12

#### COST AND STANDARD OF LIVING

22913 BRANNAN, C. F. Better living. Washington, U. S. D. A., 1948. 13 p. 1.91 A2B73

22914 MACNAUGHTON, M. A. Changes in farm family living in three areas of the Prairie Provinces, 1942-43 to 1947. *Econ. Annal.* 18: 83-84. Nov. 1948. 281.8 Ec72

22915 POND, G. A. Farm family living costs. *Minna. U. Agr. Ext. Farm Business Note* 310: 3. Nov. 29, 1948. 275.29 M663

22916 SCHULER, E. A., and MCKAIN, W. C., JR. Levels and standards of living. In Taylor, C. C., and others. *Rural life in the United States*, p. 295-308. New York, 1949. 281.2 T21R

22917 SIMMONS, D. F. Farm and family financial planning. Washington, U. S. Bur. Agr. Econ., 1948. 6 p. 1.941 R4F223

#### FARM MANAGEMENT AND LAND ECONOMICS

22918 ALARCÓN GARDE, F. Two hectares and a living. *Philippine Livestock Mag.* 2: 132-133, 150. Apr. 1948. 49 P53

22919 AZZARITI, G. On the concepts of enterprise and farming. (In Italian.) *Riv. di Diritto Agr.* 23/26: 116-120. Apr./Sept. 1947. 16 R524

22920 BARBIER, R. Devrons-nous modifier nos méthodes de culture? *Vie Agr.* 3(68): 8-9. Feb. 6/13, 1947. 14 V673

22921 BARLEY, H. D. Poultry and cows go together. *Farmer & Stock-Breeder* 62: 2799. Nov. 30, 1948. 10 F228

22922 BAROU, N. Soviet collective farming: post war development. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 95-108. Cambridge, 1948. 280.29 H78

22923 BOUCHER, G. P. Risk and uncertainty in agricultural entrepreneurship. *Econ. Annal.* 18: 85-88. Nov. 1948. 281.8 Ec72

22924 BOUILLOT, L. L'élevage du mouton, complément de la culture dans les hauts plateaux algériens. *Mouton* 3: 101-102. Oct. 1948. 45.8 M86

22925 BURK. Vorbildliche gemeinschaftseinrichtungen in Pleidelsheim. *Württemb. Wchnbl. f. Landw.* 115: 335-336. Nov. 13, 1948: 18 W96

Farming methods.  
22926 CALLEGARI, D. On competent authority to determine the size of minimum cultural unit. (In Italian.) *Riv. di Diritto Agr.* 23/26: 248-267. Oct./Dec. 1947. 16 R524

22927 CAMBRIDGE UNIVERSITY. DEPT. OF AGRICULTURE. FARM ECONOMICS BR. Changes in the economic organization of agriculture; a comparative study of conditions in the eastern counties of England between an identical sample of farms in 1946-47, with summaries of unpublished reports for the years 1943-44, 1944-45, 1945-46. Cambridge U. Dept. Agr. Farm Econ. Br. Rpt. 31, 40 p. July 1948. 281.9 C14

22928 CANADA. DEPT. OF MINES AND RESOURCES. LANDS, PARKS AND FORESTS BR. Report... for the fiscal year ended March 31, 1947. Ottawa, 1948. p. 74-142. 279.9 C162

22929 CARHART, A. H. Our public lands in jeopardy. *North Amer. Wildlife Conf. Trans.* 13: 86-100. 1948. 412.9 N814

22930 CARPENTER, F. R. What to do about public lands? *West. Live Stock* 34(3): 49, 58-59, 61. Oct. 1948. 49 W523

22931 CAVINA, R. Farm management. (In Portuguese.) *Agronomia [Rio de Janeiro]* 7: 171-176. July/Sept. 1948. 9.2 Ag892

22932 CHAGNY, J. Un kolkhoze vu par un communiste. *Unité Paysanne* 3(154): 3. Oct. 16, 1948. 14 Un3

22933 CHRISTENSEN, L. Specialized or general agriculture. (In Danish.) *Dansk Landbr.* 67: 467. Dec. 2, 1948. 280.28 V91

22934 CURREN, A. E. A quarter century at... *N. I. Farm & Gard.* 19(11): 12-13, 23.

22935 DOBBIN, H. Successful farm partnerships. *Hoards Dairyman* 94(1): 30. Jan. 10, 1949. 44.8 H65

22936 EGOROV, I. Be thrifty! (In Russian.) *Molod. Kolkhoz.* 15(8): 8. Aug. 1948. 110 M73  
Instruction to the young communists to participate in the development of more economical methods of management on collective farms.

22937 FÉLICE, P. DE. Les prix du quintal; fermage à la Toussaint 1948. *Défense Agr. de la Beauce et du Perche* 45: 308. Nov. 10, 1948. 14 D36  
Wheat prices.

22938 FEO, A. DE. Division of farm products in the report of the ministerial commission. (In Italian.) *Riv. di Diritto Agr.* 23/26: 276-282. Oct./Dec. 1947. 16 R524

Share farming.  
22939 FIGUEROA, A. Organización de la empresa agrícola. U. Nac. Mayor de San Marcos. Facul. de Cien. Econ. Rev. 39: 20-31. July 1948. 280.8 R328

22940 FOULON, L. A. Ventajas e inconvenientes de las explotaciones diversificadas. *Bolsa de Cereales*, Buenos Aires. Rev. 35(1875): 10, 12, 20-24. Dec. 2, 1948. 287 B866

22941 FRANTZEN, H. Die tierhaltungsfreie landwirtschaft. *Unser Hof* 1948: 100-102. 18 Un72

22942 FRASSOLDATI, C. Notes on small farmers. (In Italian.) *Riv. di Diritto Agr.* 23/26: 121-138. Apr./Sept. 1947. 16 R524  
Italy.

22943 FROVA, G. The share-farming reform, where will it take us? (In Italian.) *Agricoltore [Milano]* (n. s.) 29(45): 1. Nov. 6, 1948. 16 Ag862

22944 GILLET, R. L., and CHRISTEN, E. H. Agriculture and the elderly. In N. Y. (State) Legis. Jt. Com. on Problems of the Aging. Birthdays don't count. p. 280-289. Albany? 1948. 280 N487

22945 GROOT, H. DE, and EIKELBOOM, H. Feed and culture plan in mixed farming. (In Dutch.) *Netherlands. Landbouwwoorlichtingsdienst. Maandbl.* 5: 411-415. Sept. 1948. 12 N383M

22946 GROOTJANS, A. Quelle est la meilleure forme juridique d'une entreprise familiale? *Vivres* 3(11): 11-13. (Cont.) Nov. 1948. 389.8 V832

22947 HALBE, G. Gärtnerhöfe. *Unser Hof* 1948: 49-50. 18 Un72

22948 HALLE, J. Organisationsgrundsätze für den landwirtschaftlichen betrieb. *Land, Wald u. Garten* 2: 356-358. Dec. 1947. 18 L22

22949 HART. Recommendations to farmers in this critical inflationary period. *Equity Co-op. Livestock News* 13(12): 3, 7. Dec. 1948. 280.28 Eq5

22950 HARVEY, N. Farmers and land managers. *New Statesman & Nation* 36: 521. Dec. 11, 1948. 280.8 N2132

Great Britain.  
22951 HOGLUND, C. R., and ANDERSON, A. W. Father-son farming plans. *S. Dak. Agr. Expt. Sta. B.* 390, 16 p. June 1948. 100 So82

22952 HOLMES, G. B. When grand-dad held the reins. *Through Leaves* 26(5): 32-34. Sept./Oct. 1948. 66.8 T41

Farm management.  
22953 JOSEPH, J. Possible answer to inefficient labour; farmers as sub-contractors to private enterprise succeed at world-famous agricultural unit in United States; details of Walker-Gordon dairies. *Farmer's Weekly [Bloemfontein]* 76: 52-53, 55. Nov. 24, 1948. 24 F225

22954 KENNING, W. Preparación básica. *Campo [La Paz]* 2(15): 44. July 1948. 9.1 C15

Management.  
22955 KÖSTER, G. Betriebswirtschaftliche gedanken, manchmal etwas ketzerisch. *Landwirtschaftsblatt Weser-Ems* 95: 219-221. Oct. 30, 1948. 18 L2345

22956 LAIRD, SIR P. Area Agricultural Executive Committees. *Scot. Agr.* 26: 179-181. Jan. 1947. 10 Sco82So

22957 LEE, W. G. "Better farms" tour sees many seats of agricultural progress. *South. Banker* 90(12): 24. Dec. 1948. 284.8 So8

22958 LEES, A. B. Granjas británicas modelo. *Surco [Madrid]* 7(79): 11-13. Sept. 1948. 15 Su7



22959 LISKOVETŠ, B. A. Vozmeshchenie vreda, prichinnennogo imushchestvu kolkhoza [Compensation for the damages caused to collective farm property]. Moskva, Ministerstvo ūstifitsii SSSR, 1948. 36 p. (Biblioteka Narodnogo Sud'i i Narodnogo Zasedatelia) 33.31 L68  
Responsibilities of farmers as defined in the Stalin code on agricultural arts.

22960 MEDICI, G. Notes for the small owner-operated farm. (In Italian.) Riv. di Econ. Agr. 3: 432-436. 1948. 281.8 R52

English summary, p. 436.

22961 MEZGER, H. Fur for profit. Fur J. 14(10): 5, 28-29. Aug. 1948. 412.628 F969

Fur farm management.

22962 MOSNIER, M. Avantages d'une coopérative d'exploitation fruitière. Terre d'Oc 30: 173-176. May 1948. 14 Ar5

22963 NEW ZEALAND. DEPT. OF AGRICULTURE. Farming in New Zealand (second series). New Zeal. Dept. Agr. B. 279, 84 p. Wellington, 1947. 23 N48Bu

22964 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Farming in Holland. North. Ireland. Min. Agr. Rpt. 23: 170-174. Oct. 1948. 256.13 Ag82M

22965 OLIVIER, L. Farming between the Karoo-thorn trees. (In Afrikaans.) Landbouweekblad 30(1533): 42. Dec. 1, 1948. 24 L232

22966 PAMPALONI, E. Profits in livestock share farming and index numbers [Italy]. (In Italian.) Riv. di Diritto Agr. 23/26: 158-166. Apr./Sept. 1947. 16 R524

22967 PANATTONI, A. Farms in Lucchesia. (In Italian.) Pisa. U. Facol. di Agr. Ann. (n. s.): 8: 241-253. Nov. 10, 1948. 105.4 P672

22968 PERTICARA, G. Apparent profits and losses in livestock share farming. (In Italian.) Riv. di Diritto Agr. 23/26: 268-275. Oct./Dec. 1947. 16 R524

22969 PNIOWER, G. Gartenbau auf dem lande. Unser Hof 1948: 86. 18 Un72  
Germany.

22970 PORTER, J. C. Good ranch management. Cattleman 35(8): 27-29, 56, 58-60. Jan. 1949. 49 C29

22971 PRITCHETT, W. M. Crop yields—a measure of farming efficiency. Fed. Reserve Bank Dallas. Monthly Business Rev. 33: 189-199. Dec. 1, 1948. 284.8 F31D

22972 REYNOLDS, R. L. Let's get back on solid ground. Through Leaves 26(5): 34-35. Sept./Oct. 1948. 66.8 T41

Farm management.

22973 ROLFES, M. Die neutigen probleme der betriebslehre. Beitr. Agrarwiss. 1: 17-24. n. d. 18 B392

22974 ROSA, S. DE. An inseparable binomial, capital-labor. (In Italian.) Glor. di Agr. 58: 358. Dec. 19, 1948. 16 It1G

22975 ROUSSIAUX, P. Contacts avec la grande culture; des enseignements valables pour la petite exploitation. J. de la France Agr. 4: 997, 1000. Dec. 10/16, 1948. 14 J829

22976 SANTACRUZ P., J. La agricultura ejidal en el Valle de Valsequillo, Pue. Germinal 9(67): 36-44. (To be cont.) July 1948. 8 G31

22977 SCHMIDT, E. Praktische betriebseinrichtungen. Württemb. Wchnbl. f. Landw. 115: 336. Nov. 13, 1948. 18 W96

22978 SEVERSON, H. Green County's [Kentucky] five-year plan. Banking 41(6): 53, 72. Dec. 1948. 284.8 Am3

Farm management.

22979 SHEWELL-COOPER, W. E. Market gardening criticism. Estate Mag. 10: 422-425. Dec. 1948. 10 Es8  
Management.

22980 SIRRI, A. Even in the mountain, miracles can be performed. (In Italian.) Terra [Firenze] 59(40): 2. Oct. 3, 1948. 16 T274

Farm management.

22981 SMALLFIELD, P. W. Farming in New Zealand. Irish Agr. & Creamery Rev. (n. s.): 17(180): 18-20. (To be cont.) Dec. 1948. 44.8 C866

22982 SMALLFIELD, P. W. Wartime farming. New Zeal. Dept. Agr. B. 279: 63-76. 1947. 23 N48Bu

22983 SMITH, N. L., and others. Farm business report for 1947. Mich. Agr. Expt. Sta. Q. B. 31: 182-193. Nov. 1948. M58S

E. M. Elwood, E. H. Carter, and J. C. Doneth, joint authors.

22984 STABLER, S. P. Plan a balanced cropping system. Md. Farmer 32(12): 13. Dec. 1948. 6 M362

22985 TAYLOR, T. R. Partnerships—their pitfalls and tax problems. West. Live Stock 34(3): 70, 72, 74, 77-78. Oct. 1948. 49 W523

22986 TJALLEMA, H. T. Possibilities for improving the production result on mixed sand district farms. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 390-399. Sept. 1948. 12 N383M

22987 VEIGA AGRA, A. Constituye el típico "lugar acasurado" de Galicia una verdadera explotación agrícola? Ager 45: 161-163. Sept. 1948. 33.23 Ag3

22988 VIERI, F. The pick-ax. (In Italian.) Terra [Firenze] 59(46): 1. Nov. 14, 1948. 16 T274  
Share-farming policy.

22989 VILLAFANE, A. Los hospitales y su abastecimiento; los productos de huerta, granja, etc., deben ser obtenidos en el propio establecimiento. Pampa Argentina 22(255): 1, 44. Nov. 1948. 9 P19

22990 WALDNER, C. E. How to interest youth in careers on the farm. Farm & Ranch Rev. 44(12): 25. Dec. 1948. 7 F223

22991 WHITE, H. Developing a mixed farm. Organic Farming Digest 1(5): 6-8. Apr./June 1947. 56.8 Or32

#### Bookkeeping and Records

22992 DONETH, J. C. Find any leaks through keeping farm accounts. Mich. 210: 397. Dec. 18, 1948. 6 M58

22993 FANNING, J. W., FULLILOVE, W. T., and AWTREY, L. M., JR. The business of farming; problems and exercises in determining profits, planning operations, and keeping records. Hamilton, Ga., Ida Cason Callaway Found., 1948. 208 p. 30.6 F21

22994 FILLEY, H. C. Keeping track of farm income. Nebr. Farmer 90(23): 7. Dec. 4, 1948. 6 N27

22995 HUNT, G. On making the farmer account conscious. O. A. C. Rev. 61: 123-125. Dec. 1948. 276.8 On8

#### Costs and Returns

22996 BARR, G. W. Dairy prices and costs. Ariz. Farmer 27(25): 30-31. Dec. 11, 1948. 6 Ar44

22997 BLANCH, G. T. How much profit has there been in producing eggs in Utah? Farm & Home Sci. [Utah Sta.] 9(4): 1, 19. Dec. 1948. 100 Ut1F

22998 BURTON, R. E., and LAW, H. E. An average FHA [Farmers Home Administration] diversified farm in Hawaii. Hawaii. U. Agr. Ext. Agr. C. 256, 4 p. Oct. 1948. 275.29 H312 Ac  
Income and expenditures.

22999 BUTLER, J. B. Costs and returns for wintered cattle in Northumberland 1946-47. King's Col. Farm Econ. Br. Rpt. G 26, 5 p. Newcastle-upon-Tyne, n. d. 281.9 K61

23000 BUTLER, J. B. The economics of yard-fed cattle in Northumberland, 1946-47. King's Col. Farm Econ. Br. Rpt. G 23, 10 p. Newcastle-upon-Tyne, 1947. 281.9 K61  
Chiefly costs and returns.

23001 CAMPERO, P. Lo que cuesta hacer un quintal de trigo. Tolva 54: 869-874. Nov. 1947. 59.8 T58T  
Spain.

23002 COATES, P. L., and NICHOLSON, A. I say milk costs too much. Sat. Eve. Post 221(27): 16-17, 67-68. Jan. 1, 1949. 110 Sa8

23003 DEGRAFF, H., and others. Individual factors and annual averages from farm cost accounts, 53 farms—1944. N. Y. Agr. Col. A.E. 555, 34 p. Apr. 1948. 281.9 C81

C. DelMar, I. R. Brierly, G. Stone, H. Smith, E. Skirpan, and O. Stapley, joint authors.

23004 DINSDALE, D. H., CARPENTER, E. M., and WATSON, R. C. Costs and returns of potato growing in 1947 on some Durham and Northumberland farms. King's Col. Farm Econ. Br. Rpt. G 27, 14 p. Newcastle-upon-Tyne, 1948. 281.9 K61

23005 DURANTE, D. The "return" from land and the formation of new farms. (In Italian.) Genio Rur. 11: 321-323. Oct. 1948. 281.8 R522



23006 ERIKSSON, K. A. Does it pay to produce milk? (In Swedish.) *Lantmannen* 32: 813. Dec. 4, 1948. 11 L234

23007 FLORES SOLÍS, O. Al Honorable Sr. Presidente de la República, Dr. Carlos Prío Socarras. *Agronomia [Habana]* 8(11): 8-9, 25. Nov. 1948. 8 C893  
Farm costs and returns.

23008 GUELPA, F. The positive and negative components of the revenue from agricultural properties. (In Italian.) *Risicoltura* 36: 187-188. (To be cont.) Aug. 1948. 59.8 G43

23009 HUTTON, J. Bantam keeping costs. *Poultry [London]* 103: 336. Oct. 26, 1948. 47.8 P869

23010 KERSTENS, J. The sound maintenance of profitable fruit production. (In Dutch.) *Boer en Tuinder* 2(95): 3. Oct. 30, 1948. 12 B632

Costs and returns.

23011 KUHLMAN, G. W., and MUMFORD, D. C. Cost of producing boysenberries (for processing) in the Willamette Valley, Oregon; a progress report. *Oreg. Agr. Expt. Sta. C. Inform.* 437, 7 p. Nov. 1948. 100 Or3C

23012 LACEY, J. J. What are winter costs? *Wool News* 14(5): 2. Dec. 1948. 280.28 W882  
In sheep production.

23013 LAMOUR, P. Le coût de la production. *Avenir Paysan de la Haute-Marne* 4(78): 1. Dec. 3, 1948. 14 Av3

23014 MILLER, L. F., and HERRMANN, R. Cost in keeping a bull compared with artificial breeding. *Pa. Agr. Expt. Sta. B.* 499, 6 p. May 1948. 100 P381

23015 MOORE, A. C. Is it economical to hatch your own chicks? *Poultry [London]* 103: 492. Dec. 21, 1948. 47.8 P869

23016 MOORE, A. C. It would cost £3 a pullet to start to-day. *Poultry [London]* 103: 414. Nov. 23, 1948. 47.8 P869

23017 MORRISON, E. M. Cost and efficiency of canning pea production in Cache and Box Elder Counties, Utah, 1946-1947. *Utah. Agr. Expt. Sta. B.* 331, 19 p. June 1948. 100 Utl

23018 MURPHY, R. G. Costs of mow curing hay, 1946. *N. Y. Agr. Col. A. E.* 683, 17 p. Nov. 1948. 281.9 C81

Prepared from a Master's thesis by L. H. Davis.

23019 NORDEN, F. Does it pay to produce milk. (In Swedish.) *Lantmannen* 32: 771-773. Nov. 20, 1948. 11 L234

23020 NUTT, J. D. 1947 crop costs studies. 1. Sugar beet. *Edinb. and East Scot. Col. Agr. Farmers' Leaflet* 6, 20 p. Aug. 1948. 281.9 Ed4F

Addendum: Utilization of sugar beet tops, by W. B. Duthie and H. C. McIver.

23021 PASSERINI, O. The profitability of silk-worm rearing in Italian agriculture. (In Italian.) *Riv. di Econ. Agr.* 3: 414-421. 1948. 281.8 R52

23022 PEER, H. M. A city plus a goat dairy means profit. *Dairy Goat J.* 26(12): 7-8. Dec. 1948. 40.18 M592

23023 PLAXICO, J. S. Broiler returns—profit or loss? *Va. Farm Econ.* 115: 1228-1230. Oct. 1948. 275.29 V813

23024 PRITCHARD, N. T., and MANHART, V. C. Fall-winter dairying boosts milk profits. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1948: 3-4, 7. Nov. 20, 1948. 275.29 In2En

23025 RETSON, G. C. Relationship of the poultry flock to other farm enterprises on Nova Scotia farms. *Econ. Annal.* 18: 80-82. Nov. 1948. 281.8 Ec72

Costs and returns.

23026 ROWE, J. Z. Ranchers' net income may drop in 1949. *N. Mex. Stockman* 13(12): 62. Dec. 1948. 49 N462

23027 SALLNÄS, T. Economy of farmyard and livestock raising. (In Swedish.) *Lantmannen* 32: 806, 810. Dec. 4, 1948. 11 L234

23028 SENSINI, G. The so-called laws of increasing and diminishing returns in industry and agriculture. (In Italian.) *Riv. di Polit. Econ.* (ser. 3) 38: 769-776. Aug./Sept. 1948. 280.8 R52

23029 TABLANTE, N. B. The cost of producing potatoes. *N. Y. Agr. Col. Farm Econ.* 164: 4234-4235. Nov. 1948. 280.8 C812

23030 VELDINK, J. G. Is the fattening of swine with steamed potatoes profitable? (In Dutch.) *Stichting v. den Landb. Meded.* 3: 353-354. Nov. 26, 1948. 12 St5  
Costs and returns.

23031 VIERI, F. Costs. (In Italian.) *Terra [Firenze]* 59(38): 1. Sept. 19, 1948. 16 T274

23032 VINCENT, W. H. The cost of producing milk. *Mich. Milk Messenger* 30(9): 3, 7. Jan. 1949. 44.8 M582

23033 WARREN, C. C. A formula for estimating the chick season. (Excerpts.) *IBCA News* 24: 12-13, 15, 16. Sept. 1, 1948. 47.8 In83  
Costs and returns.

23034 WHATLEY, T. J. Production practices, costs, and returns from cotton, Haywood County, Tennessee, 1947. *Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog.* 239, 26 p. Nov. 24, 1948. 173.2 W89Co

#### Land Settlement and Colonization

23035 BARRETO, S. M. Instituto Nacional de Colonización [Uruguay]. *Fed. Rural Rev.* (ser. 3) 11(30): 44-47. July 1948. 9.9 R322

23036 BERTHAULT, P. Le recul de la colonisation. *Rev. Agr. de l'Afrique du Nord* 46: 587-588. Nov. 26, 1948. 80 R326

23037 BLANES, F. El Instituto Nacional de Colonización, su objeto y mejoras que realiza. *Balearic Isl. Diputación Prov. B. de Agr.* 48: 6-7. Sept. 1948. 15 B19

23038 CHÁVEZ Q., M. Política mexicana de colonización. *Rev. de Econ.* 11(12): 13-15. Dec. 15, 1948. 280.8 R3293

23039 DEAMBROSIS, J. R. La expansión de las colonias "San Javier" y "Ofir"; se trata de una sentida necesidad que estudia el Instituto Nacional de Colonización. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 239: 9. Oct. 7, 1948. 9.9 G15B

23040 DOS PASSOS, J. Pioneers in Brazil; far in the Amazon's hinterland an energetic road builder is carving a booming new colony from the jungle. *Life* 25(25): 5-6. Dec. 20, 1948. 280.8 L62

23041 ERBS, K. Anregungen für die planung von Neubauernsiedlungen. In Erbs, K., ed. *Neubauernsiedlung und wiederaufbau des landes*, p. 5-8. Berlin, 1947. 282.2 Er1

23042 FREESE, H. Gestalterische grundfragen der Neubauernsiedlung. In Erbs, K., ed. *Neubauernsiedlung und wiederaufbau des landes*, p. 9-10. Berlin, 1947. 282.2 Er1

23043 HAMMERBACHER, H. Neubauernsiedlung und landchaftsgestaltung. In Erbs, K., ed. *Neubauernsiedlung und wiederaufbau des landes*, p. 12-13. Berlin, 1947. 282.2 Er1

23044 PUERTO RICO. JUNTA DE PLANIFICACIÓN, URBANIZACIÓN Y ZONIFICACIÓN. Quinto informe anual... año fiscal 1946-47. San Juan. 1948. 178 p. 280.9 P965A

Text in Spanish and English.

Includes rural resettlement.

23045 REICHSTEIN, M. Erfahrungen eines kleinsiedlers. In Erbs, K., ed. *Neubauernsiedlung und wiederaufbau des landes*, p. 18. Berlin, 1947. 282.2 Er1

23046 RIEMASCH, B. E. Landwirtschaftliches aus der blickrichtung des landbaumeisters. In Erbs, K., ed. *Neubauernsiedlung und wiederaufbau des landes*, p. 10-12. Berlin, 1947. 282.2 Er1

23047 ROSEAU, H. Commemoration du centenaire de la creation de Novl. *Rev. Agr. de l'Afrique du Nord* 46: 425-426. Aug. 27, 1948. 80 R326

A North African settlement.

23048 SCHMIDT, R. Die höhengrenze der dauersiedlungen im Gleinalpenzug. *Naturw. Ver. f. Steiermark. Mitt.* 76: 24-73. Ref. 1947. 510 G79

23049 SOCIETÀ GEOGRAFICA ITALIANA. L'Italia in Africa, incivillimento e sviluppo dell'Eritrea, della Somalia e della Libia [Italy in Africa, civilizing and development of Eritrea, Somalia, and Libya]. Roma, Editrice Italiana Arti Grafiche, 1948. 95 p. (Its Quaderni Geografici d'Attualità ser. seconda: I Territori Italiani d'Africa) 282.2 Sol

Papers on colonization by P. Franca, A. Maugini, A. Fantoli, G. Dasdiace, and E. de Agostini.

23050 SOUTHERN RHODESIA. LAND SETTLEMENT BD. Report... for the year ending 31st December, 1947. Salisbury, 1948. 13 p. 282.29 R34

23051 STRIEMER, A. Strukturuntersuchung als grundlage der Neubauernsiedlung. In Erbs, K., ed. *Neubauernsiedlung und wiederaufbau des landes*, p. 8-9. Berlin, 1947. 282.2 Er1



23052 TAYLOR, G. Present and future settlement along the Mackenzie River. (Abs.) Roy. Canad. Inst. Proc. 13: 36-37. 1948. 517 T63P

23053 VERSHOVEN, W. Siedlung als wiederaufbau. Unser Hof 1948: 32-34. 18 Un72  
Germany.

23054 WILSON, K. Poultry in a scheme of land settlement. World's Poultry Cong. Off. Rpt. 8: 417-422. 1948. 47.9 W898O  
French summary.  
Great Britain.

#### Land Tenure

23055 ADAMS, R. L. What's new in farm tenancy. Calif. Fruit & Grape Grower 2(9): 9-10. Sept. 1948. 95.8 G762

23056 ANDALO, G. Agitated share farming: why the new farm contract has not been concluded. (In Italian.) Voce dei Campi 3(18): 1. July 10, 1948. 16 V852

23057 BATES, R. How can owners and tenants agree? Prairie Farmer, Gen. Ed. 120(23): 1, 14, 15. Nov. 6, 1948. 6 P883

23058 BATES, R. How owner and tenant can strike a balance. Prairie Farmer, Gen. Ed. 120(26): 14, 15. Dec. 18, 1948. 6 P883  
Farm leases.

23059 BONOMI, P. Agrarian contracts and necessary substitutions. (In Italian.) Coop. e Agr. 30(47): 1. Dec. 4, 1948. 16 C78

23060 BRAY, F. R. Land legislation. New Zeal. Dept. Agr. B. 279: 31-41. 1947. 23 N48Bu

23061 BUTTAZZONI, G. The agrarian reform [Italy]. (In Italian.) Agr. Bresciana 1(39): 2; (40): 1-2. Sept. 29, Oct. 6, 1948. 16 Ag89

23062 CANSACCHI, G. The indissolubility of agricultural contracts. (In Italian.) Cron. Econ. 47: 2-3. Dec. 5, 1948. 280.8 C882

23063 CANSACCHI, G. The limitations of landownership. (In Italian.) Chron. Econ. 44: 15-16. Oct. 10, 1948. 280.8 C882  
Italy.

23064 CARPENTER, F. R. The federal land policy. Mont. Wool Grower 23(1): 14, 62-64. Jan. 1949. 45.8 M762

23065 DARI, E. M. On the agrarian reform [Italy]. (In Italian.) Riv. di Polit. Econ. (ser. 3) 38: 787-794. Aug./Sept. 1948. 280.8 R52

23066 DORIA, M. R. Reflections on the nature of the various share-crop agreements ("compartecipazione" and "colonia parziaria") prevalent in southern Italy, and the means whereby to regulate them. (In Italian.) Riv. di Econ. Agr. 3: 318-333. 1948. 281.8 R52  
English summary, p. 333.

23067 FALQUE, X. Reglement des fermages 1948. Réveil Agr. 57: 363. Dec. 1, 1948. 14 R322  
France.

23068 FÉLICE, P. DE. Les non-bénéficiaires de la loi du 5 septembre 1947. Monit. Agr. 1(47): 5. Dec. 5, 1948. 14 M744  
Farm tenancy legislation in France.

23069 FÉLICE, P. DE. La reprise triennale des lieux loués. Monit. Agr. 1(46): 5. Nov. 28, 1948. 14 M744

23070 FENDEL. Uebergabe eines landwirtschaftlichen betriebes. Saat u. Ernte 3(10): 9. Oct. 1948. 18 Sa12  
Germany.

23071 FERNÁNDEZ Y FERNÁNDEZ, R. Reforma agraria en Cuba. Rev. de Econ. 11(12): 22-28. Dec. 15, 1948. 280.8 R3293

23072 FROVA, G. Forced collaboration. (In Italian.) Voce dei Campi 3(29): 1. Nov. 10, 1948. 16 V852  
On Italian share-farming contracts.

23073 GROSSO, G. Premises to the interpretation of constitutional provisions on property [in land]. (In Italian.) Riv. di Diritto Agr. 23/26: 241-247. Oct./Dec. 1947. 16 R524

23074 GUILBAUD, J. Le droit de chasser du preneur: dans quelle mesure peut-on le restreindre? Terre 205: 3. Sept. 16/22, 1948. 281.8 T27

23075 GUILBAUD, J. A propos du droit de reprise: une jurisprudence qui ne doit pas s'établir. Terre 213: 3. Nov. 11/17, 1948. 281.8 T27  
In leases in France.

23076 HAMILTON, C. H. Farm rental contracts. Tex. Farming & Citric. 25(6): 21. Dec. 1948. 80 T31

23077 HSIUNG, P. H. An appraisal of a land reform project. (In Chinese.) Monthly Farmers' Bank China 9(6): 1-5. June 1948. 281.9 F225M

English summary, p. 1.

23078 KIMMICH, O. Landwirtschaftliche pachtzin-sen. Wirtsch. Ztg. 3(46): 11. Oct. 30, 1948. 280.8 W742  
Germany.

23079 LANDI, G. Rights and interests in the concession of uncultivated land to peasants [Italy]. (In Italian.) Riv. di Diritto Agr. 23/26: 139-152. Apr./Sept. 1947. 16 R524

23080 LAS CASES, E. DE. La nouvelle loi sur les loyers. Unité Paysanne 3(158): 4. Nov. 13, 1948. 14 Un3

23081 MAIR, L. P. Modern developments in African land tenure: an aspect of cultural change. Colon. Rev. 5: 234-236. Dec. 1948. 280.8 C71

23082 MARTUCCI, F. The agrarian reform: voices of the Mezzogiorno. (In Italian.) Terra [Firenze] 59 (40): 1-2. Oct. 3, 1948. 16 T274

23083 MEDICI, G. Agrarian reform in central Italy. (In Italian.) Gior. di Agr. 58: 283. Oct. 17, 1948. 16 It1G

23084 MEDICI, G. Agrarian reform in Emilia and Veneto. (In Italian.) Gior. di Agr. 58: 275-276. Oct. 10, 1948. 16 It1G

23085 MEDICI, G. Collective ownership, demesnes, civic usages. (In Italian.) Riv. di Econ. Agr. 3: 303-317. 1948. 281.8 R52

English summary, p. 316-317.

Ancient rights in rural communities.

23086 MUZIO, E. Farmers' ideas on the reform of contracts [Italy]. (In Italian.) Gior. di Agr. 58: 356. Dec. 19, 1948. 16 It1G

23087 NOLLEAU, J. Le statut du fermage: le droit de reprise du propriétaire. Forêt Franç. 129: 1. Oct. 1948. 99.8 F7682

23088 OUEDRAOGO, J., and PROST, A. La propriété foncière chez les Mossi. Notes Africaines 38: 16-18. Apr. 1948. 475 N84

23089 PAGANI, A. New criticisms of the reform: the duration of contracts [Italy]. (In Italian.) Gior. di Agr. 58: 324. Nov. 21, 1948. 16 It1G

23090 PELLAGATTA, G. G. Revolutionary concepts in the drawing up of agricultural accounts for purposes of leasing. (In Italian.) Coop. e Agr. 30(43): 1. (Concl.) Nov. 6, 1948. 16 C78

23091 PELLIZZARI, C. More on the property limitations [Italy]. (In Italian.) Agr. Bresciana 1(39): 1. Sept. 29, 1948. 16 Ag89

23092 PELLIZZARI, C. Notes on the agrarian reform. (In Italian.) Agr. Bresciana 1(41): 1. Oct. 13, 1948. 16 Ag89

23093 PESCATORI, E. Big and little properties in relation to reform of contracts: rural bourgeoisie. (In Italian.) Gior. di Agr. 58: 349. Dec. 12, 1948. 16 It1G  
Farm leases.

23094 PETIT-LAURENT, V. Comment vous pouvez surveiller la réévaluation du cadastre dans votre commune. Fiches Rur. 40, Informations, 6 p. Oct. 1948. 281.8 F44  
France.

23095 PETIT-LAURENT, V. Voyez comment se fait le remembrement. Foyer Rur. 11(49, sup.): 1-3. Oct. 3, 1948. 14 F83  
France.

23096 RAMBAUD, P. Le remembrement. Jura Agr. (n. s.) 1948(15): 1. Dec. 1, 1948. 14 J97

23097 RAPER, A. F., and TAYLOR, C. C. Land-owners and tenants. In Taylor, C. C., and others. Rural life in the United States, p. 264-280. New York, 1949. 281.2 T21R

23098 RICCHIONI, V. Preliminaries to the [Italian] agrarian reform. (In Italian.) Risveglio Agr. 7: 310-311. Sept. 15/30, 1948. 16 R49

23099 RUZZIER, A. Redistribution of lands [Italy]. (In Italian.) Inform. Agr. 4(18): 2. Oct. 15, 1948. 281.8 In32

23100 SAJA, F. The agrarian reform in the rice plain [Italy]. (In Italian.) Cron. Econ. 47: 4-6, 8. Dec. 5, 1948. 280.8 C882



23101 SAJA, F. Who can be regarded as a direct cultivator. (In Italian.) *Genio Rur.* 11: 324-328. Oct. 1948. 281.8 R522

Under the law for the extension of farm leases in Italy.

23102 SAN LIO, V. M. Proprietors—under compulsion. *Voce dei Campi* 3(23): 1. Sept. 10, 1948.

16 V852

Italian land reform.

23103 SANTI JUAREZ, T. Conceptos arcáico y moderno del derecho de propiedad de la tierra. *Siembra* 1948(8/9): 6-7. Aug./Sept. 1948. 15 Si1

23104 SCHMIDT, H. W. Landwirtschaftliche pachtzinsen. *Wirtsch. Ztg.* 3(49): 9. Nov. 10, 1948. 280.8 W742

23105 SCHRANK, M. Der bauer und die jagd. *Salzburg. Bauer* 3(43): 2. Oct. 21, 1948. 19 Sa3

23106 SERPIERI, A. Aspects of the agrarian reform: land monopoly. (In Italian.) *Gior. di Agr.* 58: 275. Oct. 10, 1948. 16 K1G

Italy.

23107 SORBI, U. Peasant property in rural cooperation. (In Italian.) *Terra [Firenze]* 59(41): 1. Oct. 10, 1948. 16 T274

23108 SORBI, U. Property in land. (In Italian.) *Terra [Firenze]* 59(38): 1. Sept. 19, 1948. 16 T274

23109 SORESI, G. Agrarian reform. (In Italian.) *Agricoltura [Milano]* (n. s.) 29(40/41): 1-2. Oct. 2/9, 1948. 16 Ag862

23110 SWART, H. C. Protection of tenant farmers [Union of South Africa]. (In Afrikaans.) *Landbouweekblad* 30(1523): 43-44, 62. Sept. 15, 1948. 24 L232

23111 TU, S. C. The land system in India. (In Chinese.) *Monthly Farmers' Bank China* 9(6): 14-26. June 1948. 281.9 F225M

23112 VIERI, F. Definitions. (In Italian.) *Terra [Firenze]* 59(44): 1. Oct. 31, 1948. 16 T274

The agrarian reform.

23113 VIERI, F. The political side of the agrarian reform. (In Italian.) *Terra [Firenze]* 59(37): 1. Sept. 12, 1948. 16 T274

23114 VIERI, F. A single voice. (In Italian.) *Terra [Firenze]* 59(41): 1. Oct. 10, 1948. 16 T274

The agrarian reform.

23115 VIERI, F. Symptoms. (In Italian.) *Terra [Firenze]* 59(43): 1. Oct. 24, 1948. 16 T274

The agrarian reform.

23116 VIGGIANI, G. Reclamation and agrarian reform. (In Italian.) *Risveglio Agr.* 7: 311-316. Sept. 15/30, 1948. 16 R49

23117 VISOCCHI, V. An investigation on the size of family farms in Tuscany. (In Italian.) *Riv. di Econ. Agr.* 3: 358-403. 1948. 281.8 R52

English summary, p. 402-403.

#### Land Utilization

23118 BOWYER, C. P. The Town and Country Planning Act, 1947 and the chartered quantity surveyor. *Roy. Inst. Chartered Surveyors. J.* 27: 313-321. Dec. 1948. 282.9 C38J

23119 CHEPIL, W. S., and SHEN, G. G. Suggestions for land use of the Wei Gon Orphanage farm. (In Chinese.) *Monthly Farmers' Bank China* 9(6): 27-30. June 1948. 281.9 F225M

English summary, p. 3-6.

23120 FLETCHER, T. G. Proposed scheme to develop waste area in South Australia. *Overseas Rpt. Agr. Devlpmt.* 18, 1 p. Dec. 1948. 281.9 C1642O

23121 JÖRISSEN, H. J. Abwehrung des hungers durch die bodennutzungsreform. *Saat u. Ernte* 2(10): 4. Oct. 1947. 18 Sa12

23122 KÖHNLEIN. Gedanken über die bewirtschaftung der grundmoräneböden im Osten der Provinz Schleswig-Holstein. *Beitr. Agrarwiss.* 1: 60-73. n. d. 18 B392

23123 PHILLIPS, J. F. Development values and charges. *Farmer & Stock-Breeder* 62: 2841. Dec. 7, 1948. 10 F228

Second of a series on the Town and Country Planning Act.

23124 PHILLIPS, J. F. How the new law works. *Farmer & Stock-Breeder* 62: 2768-2769. Nov. 30, 1948. 10 F228

The Town and Country Planning Act on control of land use.

23125 PHILLIPS, J. F. When should a farmer claim? *Farmer & Stock-Breeder* 62: 2898. Dec. 14, 1948. 10 F228

Last of the series on the Town and Country Planning Act.

23126 REUSS, L. A., WOOTEN, H. H., and MARSCHNER, F. J. Inventory of major land uses in the United States. *U. S. D. A. Misc. P.* 663, 89 p. Ref. 1948. 1 Ag84M

23127 SMALLFIELD, P. W. Land development. *New Zeal. Dept. Agr. B.* 279: 23-30. 1947. 23 N48Bu

23128 STEEL, R. The Town and Country Planning Act, 1947, and the chartered surveyor in rural practice. *Roy. Inst. Chartered Surveyors. J.* 27: 297-312. Dec. 1948. 382.9 C38J

23129 VAN ZYL, L. Northwest Free State as management district. (In Afrikaans.) *Landbouweekblad* 30(1523): 52, 59. Sept. 15, 1948. 23 L232

Includes land use.

23130 WESTON, W. J. Explaining the Town and Country Planning Act, 1947. 1. What is a development charge? *Smallholder* 80(2018): 14. Dec. 3, 1948. 10 Sm1

23131 WILKENS, E. B. Mapping for planning; a procedural guide for the classification and mapping of land uses and related technical studies. *Pub. Admin. Serv. P.* 101, 25 p. Chicago, 1948. 280.9 P96

23132 XIMÉNEZ DE EMBÚN, J. Transformaciones de cultivo en Baleares. *Balearic Isl. Diputación Prov. B. de Agr.* 47: 3-4; 48: 2-3. Aug.-Sept. 1948. 15 B19

Land utilization.

#### Land Values and Valuation

23133 ASKIN, T. H. Recent changes in Alberta farm land prices. *Econ. Annal.* 18: 88-91. Nov. 1948. 281.8 Ec72

23134 PENDLEBURY, C. L. Town and Country Planning Act, 1947; notes on claims for depreciation of land values. *Land Agents' Soc. J.* 47: 280-282. Nov. 1948. 282.9 L22

23135 ROTHKEGEL, W. Landwirtschaftliche schätzungslehre. *Ludwigsburg, Ulmer*, 1947. 148 p. 281.175 R74

23136 SEABRA, A. N. How to choose a farm. (In Portuguese.) *Lav. Arroz.* 2(20): 43. Aug. 1948. 59.8 L39

23137 STRATHON, E. C. Practical aspects of valuations under Part VI of the Town and Country Planning Act, 1947. *Roy. Inst. Chartered Surveyors. Trans.* 81: 37-54. 1948. 282.9 C38J

23138 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm real estate activity in 17 Appalachian counties, 1947, by W. H. Scofield. *Washington*, 1948. 14 p. 1.941 L8F226

23139 ZIZZO, N. Litigations for ultra-dimidium injuries. (In Italian.) *Genio Rur.* 11: 311-314. Oct. 1948. 281.8 R522

#### POPULATION

23140 DUCOFF, L. J., and HAGOOD, M. J. Occupational patterns of rural population. In Taylor, C. C., and others. *Rural life in the United States*, p. 245-263. New York, 1949. 281.2 T21R

23141 HAGOOD, M. J. Changing fertility differentials among farm-operator families in relation to economic size of farm. *Rur. Sociol.* 13: 363-373. Dec. 1948. 281.28 R88

23142 HAGOOD, M. J. Dynamics of rural population. In Taylor, C. C., and others. *Rural life in the United States*, p. 233-244. New York, 1949. 281.2 T21R

23143 HAGOOD, M. J. Rural population characteristics. In Taylor, C. C., and others. *Rural life in the United States*, p. 217-232. New York, 1949. 281.2 T21R

23144 HILMER, F. Die ausgewiesenen bauern. *Landw. Wehnl.* 138: 245-246. Sept. 11, 1948. 18 L2338

Germany.

23145 PERU. MINISTERIO DE HACIENDA Y COMERCIO. DIRECCIÓN NACIONAL DE ESTADÍSTICA. Censo nacional de población de 1940. volumen VI. Departamentos: Ica, Huancavelica, Ayacucho. Lima, 1948? 129 p. 255.8 Es8C

Includes statistics for the population engaged in agriculture.



23146 SPENGLER, J. J. The world's hunger—Malthus, 1948. Acad. Polit. Sci. Proc. 23: 149-167. Jan. 1949. 280.9 Ac1

23147 SUNNE, O. China's rural population. China Weekly Rev. 3: 326-327. Nov. 27, 1948. 280.8 C445

23148 THADEN, J. F. Population change in the rural and urban areas of Michigan since 1940. Mich. Agr. Expt. Sta. Q. B. 31: 233-247. Nov. 1948. 100 M58S

#### RURAL SOCIAL ORGANIZATION

23149 ANDERSON, W. A. Bibliography of the Department of Rural Sociology, Cornell University. N. Y. (Cornell) Agr. Expt. Sta. Mimeog. B. 20, 35 p. Oct. 1948. 100 N48Cm

23150 BACCIGALUPI, M. For the collection of agricultural customs. (In Italian.) Riv. di Diritto Agr. 23/26: 105-115, 283-296. Apr./Sept.-Oct./Dec. 1947. 16 R524 Italy.

23151 CLOUTIER, R. Agriculture et foyer rural. Foyer Rur. [Montreal] 8(4): 10, 24. Jan. 1949. 14 F83

23152 DIAZ UNGRIA, J. Rutas de Toledo: La Gartera. Agr. 45: 164-166. Sept. 1948. 33.23 Ag3 Rural life.

23153 DUCOFF, L. J., and HAGOOD, M. J. Rural welfare. In Taylor, C. C., and others. Rural life in the United States, p. 178-193. New York, 1949. 281.2 T21R

23154 GALLOWAY, R. E. A contrast in the rural social organization of Rabun County, Georgia and Franklin County, Washington. Rur. Sociol. 13: 384-400. Dec. 1948. 281.28 R88

23155 GRANDIN, P. La campagne française s'urbanise. Foyer Rur. [Montreal] 8(3): 6. Dec. 1948. 7 F83

23156 HOFSTEE, E. W. The development of the social position of the agricultural population. (In Dutch.) In Wageningse Hogeschoolvereniging. De functie van de landbouw in de maatschappij, p. 20-41. Wageningen, 1948. 281 W12

23157 LEONARD, O. E. Santa Cruz: a socioeconomic study of an area in Bolivia. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 31, 74 p. Oct. 1948. 1.943 F763

23158 LEROUXEL, A. L'emploi du temps des femmes rurales dans le Finistère pendant l'hiver. Fiches Rur. 39, Etudes, 8 p.; 40, Etudes, 8 p. Sept.-Oct. 1948. 281.8 F44

23159 LIESHOUT, A. J. VAN. Uden; onderzoek naar de levensomstandigheden der bevolking van een oostbrabantse plattelandsgemeenschap [Uden; investigation on the living conditions of the population of an east Brabant country community]. n. p., 1948. 292 p. 280.172 L62

Academisch proefschrift—Univ. von Amsterdam.

23160 LIVELY, C. E., and GREGORY, C. L. Rural social areas in Missouri as determined by statistical analysis of county data, 1940. Mo. Agr. Expt. Sta. Res. B. 414, 25 p. Apr. 1948. 100 M693

23161 MCKAIN, W. C., JR. The western specialty-crop areas. In Taylor, C. C., and others. Rural life in the United States, p. 434-445. New York, 1949. 281.2 T21R

23162 MENDIZÁBAL, F. La recolección en Castilla; tipos y escenas en la era. B. de Divulg. Ganad. [Valloolid] 5(18): 3-8. June 1948. 49.9 Sp12

23163 NEUKIRCHEN, P. Bäuerlicher lebensstil und umstiedlung. Unser Hof 1948: 81-83. 18 Un72 Germany.

23164 RAPER, A. F. Comparisons and contrasts of major type-farming areas. In Taylor, C. C., and others. Rural life in the United States, p. 464-491. New York, 1949. 281.2 T21R

23165 RAPER, A. F. The Cotton Belt. In Taylor, C. C., and others. Rural life in the United States, p. 344-359. New York, 1949. 281.2 T21R

23166 RAPER, A. F. The dairy areas. In Taylor, C. C., and others. Rural life in the United States, p. 414-433. New York, 1949. 281.2 T21R

23167 RAPER, A. F. The general and self-sufficing areas. In Taylor, C. C., and others. Rural life in the United States, p. 446-463. New York, 1949. 281.2 T21R

23168 RAPER, A. F., and TAYLOR, C. C. Rural culture. In Taylor, C. C., and others. Rural life in the United States, p. 329-343. New York, 1949. 281.2 T21R

23169 RAPER, A. F. Rural social differentials. In Taylor, C. C., and others. Rural life in the United States, p. 309-326. New York, 1949. 281.2 T21R

23170 REILINGH, H. D. DE VRIES. The cultural significance of agriculture. (In Dutch.) In Wageningse Hogeschoolvereniging. De functie van de landbouw in de maatschappij, p. 86-96. Wageningen, 1948. 281 W12

23171 TAYLOR, C. C. The Corn Belt. In Taylor, C. C., and others. Rural life in the United States, p. 360-382. New York, 1949. 281.2 T21R

23172 TAYLOR, C. C. The evolution of American rural society. In Taylor, C. C., and others. Rural life in the United States, p. 13-36. New York, 1949. 281.2 T21R

23173 TAYLOR, C. C. The range-livestock areas. In Taylor, C. C., and others. Rural life in the United States, p. 399-413. New York, 1949. 281.2 T21R

23174 TAYLOR, C. C. Rural life and rural sociology. In Taylor, C. C., and others. Rural life in the United States, p. 3-12. New York, 1949. 281.2 T21R

23175 TAYLOR, C. C. Significant trends and direction of change. In Taylor, C. C., and others. Rural life in the United States, p. 522-533. New York, 1949. 281.2 T21R

23176 TAYLOR, C. C. The wheat areas. In Taylor, C. C., and others. Rural life in the United States, p. 383-398. New York, 1949. 281.2 T21R

#### Human Ecology

23177 BOESCH, H. H. Die wirtschaftslandschaften der erde. Zürich, 1947. 243 p. (Forschung und Leben; Naturwissenschaftliche Bibliothek der Büchergilde Gutenberg) 278 B632

Includes agricultural regions.

23178 CLARK, J. H. The Thames Valley Authority. O. A. C. Rev. 61: 133-136. Dec. 1948. 276.8 On8

23179 DUCHEMIN, G. J. Urbanisme rural—le village de Cambrérène. Notes Africaines 39: 17-18. July 1948. 475 N84

23180 ENSMINGER, D. Rural neighborhoods and communities. In Taylor, C. C., and others. Rural life in the United States, p. 55-77. New York, 1949. 281.2 T21R

23181 ENSMINGER, D., and LONGMORE, T. W. Rural trade areas and villages. In Taylor, C. C., and others. Rural life in the United States, p. 78-91. New York, 1949. 281.2 T21R

23182 ORLANDINI, O. Development and tendencies in rural-urban planning. (In Italian.) Cent. di Studi per l'Ingegn. Agr. Mem. ed Atti 3(1): 3-4. Jan./Mar. 1948. 58.9 C33

Regional planning in Italy.

23183 SANDERS, E. N. Is your community alive? Prog. Farmer, Miss.-Ark.-La. Ed. 63(11): 18, 125. Nov. 1948. 6 So81

Community organization.

#### Institutions

23184 ALLARD, O. Les agronomes. Agriculture [Quebec] 5: 309-311. Sept. 1948. 7 Ag82

23185 BAILEY, K. D. Radio programs for farmers. Natl. County Agent 4(12): 15, 31, 34. Dec. 1948. 275.28 N213

23186 BAILEY, R. W. G. Types of rural church cooperation. Town & Country Church 48: 7-9. Dec. 1948. 281.28 T66

23187 BAUER, A. Welche vorteile bietet die landw. berufsschule? Salzburg. Bauer 3(49): 2. Dec. 2, 1948. 19 Sa3

23188 BECKER, E. L. The challenge of rural America to a united evangelistic advance. Town & Country Church 49: 5-6. Jan. 1949. 281.28 T66

23189 BLACK, D. L. Farming by a score sheet. Delta Council News 9(12): 3. Dec. 1948. 280.8 D38 Veteran training.

23190 BOMBAY (PRESIDENCY) PROVINCIAL INDUSTRIES COMMITTEE. COTTAGE AND SMALL-SCALE INDUSTRIES SUB-COMMITTEE. Report. Bombay, Govt. Central Press, 1947. 177 p. 309 B6362



23191 BOOY, A. Training for farming. Farming Gloucestershire 8(1): 13, 15. 1948. 10 F2291

23192 BRANNAN, C. F. Agricultural education for democracy. Washington, U. S. D. A., 1948. 14 p. 1.91 A2B73

23193 BRUERE. 1. Les aérosols dans les milieux ruraux et les industries de l'alimentation. 2. Emission d'un aérosol germicide et non organotrope. (Sum.) Ann. des Falsif. 41: 357-358. July/Sept. 1948. 389.8 An72

23194 BUTENDIECK P., H. Escuelas agrícolas como factor de importancia en el aumento de la producción agropecuaria [Chile]. Agr. Austral 14: 7383-7384. Sept. 1948. 9.3 Ag842

23195 CAMPBELL, M. H. Cooperation between agricultural industries and colleges in New England. Feedstuffs 20(51): 26-28. Dec. 18, 1948. 286.81 F322

23196 CHAMBERS, M. M. Charters of philanthropies: a study of selected trust instruments, charters, by-laws, and court decisions. New York, Carnegie Found. for the Adv. of Teaching, 1948. 247 p. 500 C35 Farm Foundation, p. 108-120.

23197 CHINI, A. The problem of training and using technicians in agriculture. (In Italian.) Humus 4(10): 26-27. Oct. 1948. 16 H88

23198 CLOUTIER, R. Les élèves de l'Institut Agricole d'Oka à la C. I. L. et à St-Hilaire. Terre de Chez Nous 21(11): 8, 21. Dec. 8, 1948. 7 T27

23199 COLE, J. M. Accent on rural children. Town & Country Church 48: 1-2. Dec. 1948. 281.28 T66

23200 COLLAZO DE JORAJURIA. Instrucción primaria en el campo [Uruguay]. Fed. Rural Rev. (ser. 3) 11(30): 172-173. July 1948. 9.9 R322

23201 DAALEN, C. K. VAN. The agricultural information service in the United States. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandbl. 5: 450-456. Oct. 1948. 12 N383M

23202 DACOMBE, U. No more lop-sided education. Farmers Weekly [London] 29(23): 52-53. Dec. 3, 1948. 10 F2226

Courses in rural education at the Edgehill Training College.

23203 DANNEMANN, R. Was will die bäuerliche Volkshochschule? Landwirtschaftsblatt Weser-Ems 95: 226. Oct. 30, 1948. 18 L2345

23204 DEL LUNGO, A. Let us cultivate Mother Earth, but let us cultivate the mother tongue a little, as well. (In Italian.) Terra e Sole 73/74: 745-746. Nov. 1948. 16 T273

The need for simple and good language in writing of agricultural subjects.

23205 DELANEY, M. N. Christian community builders. Town & Country Church 47: 12-13. Nov. 1948. 281.28 T66

Ministers, teachers and librarians.

23206 DUNK, M. R. Ag teachers form National Vo-Ag Teachers Assn. Better Farming Methods 21(1): 22, 44. Jan. 1949. 58.8 B46

23207 EGYPT. MINISTRY OF EDUCATION. Propagation of rural industries in Egypt. Cairo, 1948. 4 p. 275.1 Eg9

23208 ENSMINGER, D. The rural church and religion. In Taylor, C. C., and others. Rural life in the United States, p. 116-133. New York, 1949. 281.2 T21R

23209 ENSMINGER, D., and LONGMORE, T. W. Rural health. In Taylor, C. C., and others. Rural life in the United States, p. 157-177. New York, 1949. 281.2 T21R

23210 ENSMINGER, D., and LONGMORE, T. W. Rural local government. In Taylor, C. C., and others. Rural life in the United States, p. 134-156. New York, 1949. 281.2 T21R

23211 ENSMINGER, D. The rural school and education. In Taylor, C. C., and others. Rural life in the United States, p. 92-115. New York, 1949. 281.2 T21R

23212 FERNÁNDEZ CASAS, A. Urgencia campesina: agrónomos ambulantes [Cuba]. Rev. Nac. de Ciencias Polít.-Econ.-Sociales 8(85): 6. Dec. 1948. 280.8 R3295

23213 FORSTER, A. L. Church life in a California town. Town & Country Church 49: 12-13. Jan. 1949. 281.28 T66

23214 GONZÁLEZ HERNÁNDEZ, M. El radio como medio de enseñanza agrícola. Agronomía [Habana] 8(9): 16, 18-19. Sept. 1948. 8 C893

23215 GRAAZ, H. Fortschrittliche landwirtschaft-rückständige hygiene. Unser Hof 1948: 84-85. 18 Un72

23216 GYNN, G. Schools dig deeper into farming; children destined for factories are shown what it takes to be a farmer--and like it. Farmer & Stock-Breeder 62: 2957. Dec. 21, 1948. 10 F228

23217 HAGOOD, M. J. The farm home and family. In Taylor, C. C., and others. Rural life in the United States, p. 39-54. New York, 1949. 281.2 T21R

23218 HALL, O. F. An Indiana county holds a rural church institute. Town & Country Church 49: 7-8. Jan. 1949. 281.28 T66

23219 HERNÁNDEZ ESTEVEZ, M. Hombres negros en el campo. Ager 45: 167. Sept. 1948. 33.23 Ag3

23220 HIBBS, W. W. Financing the country church. Town & Country Church 48: 5-6. Dec. 1948. 281.28 T66

23221 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Rural youth questionnaire. Urbana, 1948. 3 p. 275.2 IL62Ry Recreational and social program.

23222 JOHNSTONE, M. B. Drama in the rural church. Town & Country Church 49: 1-3. Jan. 1949. 281.28 T66

23223 JONES, J. M. Agricultural administration. Wales U. Col. Agr. Soc. J. 29: 7-13. 1948. 10 Un3

23224 KLAPENBACH DE SIERRA, E. Apoyo a la escuela rural [Uruguay]. Fed. Rural Rev. (ser. 3) 11(30): 170. July 1948. 9.9 R322

23225 KOCH, H. Der nachwuchs in der landwirtschaft. Württemb. Wchnbl. f. Landw. 115: 337. Nov. 13, 1948. 18 W96

23226 KRAUSE, H. Jungbäuerinnen auf der schulbank. Landfrau 3(17/18): 10-12. Sept. 1948. 18 L2337

23227 KÜPPERS-SONNENBERG, G. A. Balkanbauern. Unser Hof 1948: 68-70. 18 Un72

23228 LARSEN, P. H. Objectives in the work with adult farm youth. (In Danish.) Tidsskr. for Landøkonomi 1948: 527-544. Nov. 1948. 11 T43

23229 LAZZERINI, O. The valorization of the title of agricultural expert. (In Italian.) Terra [Firenze] 59(46): 1-2. Nov. 14, 1948. 16 T274

23230 LEBEL, L. L'amélioration de l'école rurale [Quebec]. Terre de Chez 21(12): 13. Dec. 15, 1948. 7 T27

23231 LEIGHTON, B. Learning for living. Village 3(4): 15-17. Winter 1948/49. 281.28 V71 Education.

23232 LYNCH, F. Horticultural extension service for the valley. Tex. Farming & Citric. 25(6): 10-11. Dec. 1948. 80 T31

23233 MARCONDES, J. V. F. Mutirão or mutual aid [Brazil]. Rur. Sociol. 13: 374-384. Dec. 1948. 281.28 R88

23234 MARESCALCHI, A. The rural renaissance. (In Italian.) Ital. Vinic. ed Agr. 38: 171-172. Aug. 15, 1948. 95.8 It1 Chiefly on education.

23235 MARSTELLER, H. Die berufsausbildung in der landwirtschaft. Bauern-Jahrb. 1948: 31-33. 18 B322

23236 MARTÍNEZ SALAS, H. Nuestros campesinos y nosotros. Agro 3(1/2): 9. Jan./Apr. 1948. 9.95 Ag83

23237 MEDINA, C. M. DE. Jubilación: los trabajadores rurales. Fed. Rural Rev. (ser. 3) 11(30): 48-50. July 1948. 9.9 R322

23238 MEINDL, G. Die land- und forstwirtschaftliche musterschau: Wiener Herbstmesse vom 5. bis 12. september 1948. Landwirtschaft 1948: 242-244. Sept. 18, 1948. 19 L235

23239 MÖLLE, F. Bauer und gärtner auf der deutschen briefmarke. Unser Hof 1948: 98-99. 18 Un72

23240 MOSS, B. S. Activities of an agricultural agent. Farm Electr. 2(6): 31-33. Nov./Dec. 1948. 335.8 F224

23241 MSELEKU, W. J. Bantu co-operative adult education. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 209-213. Cambridge, 1948. 280.29 H78

23242 MULLINS, J. Texas Tech. Southwest Crop & Stock 2(12): 10-11. Dec. 1948. 6 So8942 Texas Technological College.

23243 MUNCH, M. Possibilities for education in vocational agriculture of Swedish farm youth. (In Danish.) Dansk Landbr. 67: 446-447. Nov. 18, 1948. 280.28 V91



- 23244 MURRAY, J. H. Better extension program will require more funds. *West. Farm Life* 50(24): 5, 10. Dec. 15, 1948. 6 R153  
Extension work in Colorado.
- 23245 NAGY, N. Les allocations familiales en danger de mort? *Foyer Rur.* [Paris] 11(56): 1. Nov. 21, 1948. 14 F83
- 23246 NEUKIRCHEN, P. Ist der Bauer ein Lauer? Schicksalsweg, gegenwart und zukunfts-aufgaben. *Unser Hof* 1948: 36-38. 18 Un72  
Germany.
- 23247 NEUMARK, L. The Italian peasant woman. *Queensland Co-op.* 3(15): 5. Aug. 26, 1948. 280.28 Q3
- 23248 NEVILLE, H. A. D. In the beginning; a series of articles dealing with the development of educational and research institutions. 9. *The University of Reading. Agr. Prog.* 22: 67-75. 1947. 10 Ag86
- 23249 OBBINK, J. B. Agricultural information and publicity. (In Dutch.) *Netherlands. Landbouwwor-lichtingsdienst. Maandbl.* 5: 320-325. July 1948. 12 N383M
- 23250 OBONAGA I., J. H. Labores de la policia rural [Colombia]. *Rev. Agr. y Ganad.* 10(108): 3-9. Oct. 1948. 9.4 R327
- 23251 OPFINGER, F. Wie werden wir der neuen Lage gerecht? *Land u. Frau* 28(2): 1-2. Aug. 14, 1948. 18 D482L  
Women's activities on the farm.
- 23252 ORSENIGO, G. The training of agricultural technicians. (In Italian.) *Humus* 4(9): 14. Sept. 1948. 16 H88
- 23253 OUDOT, J. Pour le relevement de notre agriculture. *Colon Franc. de Tunisie* 58(2069): 1, 4. Oct. 16, 1948. 24 C712  
Education.
- 23254 PAREJA E., O. Finalidad e importancia de una exposición. *Campo [La Paz]* 2(18): 30-31. Oct. 1948. 9.1 C15
- 23255 PAUZA ANTELO, A. La enseñanza primaria agrícola [Spain]. *Hermanidad* 2(49): 5. Oct. 9, 1948. 280.28 H42
- 23256 PERRON, L. Les écoles rurales spéciales; deux congrès, deux résolutions. *Foyer Rur.* [Montreal] 8(3): 7, 15. Dec. 1948. 7 F83
- 23257 PICASSO, L. Enseñanza y fomento agrícola y ganadero [Chile]. *Agr. Austral* 14: 7382. Sept. 1948. 9.3 Ag842
- 23258 PIEDRAKITA, J. La escuela, al servicio del campo [Spain]. *Hermanidad* 2(49): 1, 5. Oct. 9, 1948. 280.28 H42
- 23259 REKAS, M. Higher agricultural education in Poland. (In Polish.) *Zycie Nauki* 5: 312-328. May/June 1948. 475 Z9  
English summary, p. 445-446.
- 23260 REMY, C. Le drame de l'artisanat rural. *Acclimatation* 75: 203. Sept. 25, 1948. 14 Ac2
- 23261 RICAUDY, A. DE. Le paysan à travers les âges. *Paysan* 24(370): 4. Oct. 1948. 14 P29
- 23262 RICH, M. The minister as evangelist. *Town & Country Church* 47: 1-3. Nov. 1948. 281.28 T66
- 23263 RODEHAVER, M. W. Ministers on the move: a study of mobility in church leadership. *Rur. Sociol.* 13: 400-410. Dec. 1948. 281.28 R88
- 23264 SCHAUDER, R. Farming operations directed by radio. *Farmer's Weekly [Bloemfontein]* 76: 55. Dec. 1, 1948. 24 F225
- 23265 SCHINDLER, Ein Bundesministerium für L. und E.? *Landw. Wchnbl.* 138: 311. Oct. 16, 1948. 18 L2338  
Germany.
- 23266 SCHULER, E. A., and TAYLOR, C. C. Rural recreation and art. In Taylor, C. C., and others. *Rural life in the United States*, p. 194-213. New York, 1949. 281.2 T21R
- 23267 SECORD, G. W. The Belleisle Regional High School at Springfield. *Marit. Farmer* 54(6): 6, 26. Dec. 21, 1948. 7 C77  
Includes courses in home economics and agriculture.
- 23268 SHEPOISER, L. H. The law and practice in schooling for Mexican children. *Iowa State Hort. Soc. Proc.* 82: 286. 1948. 81 Io9
- 23269 SILVEIRA, A. H. DA. Let us take care of the rural industries. (In Portuguese.) *Soc. Coop. da Indús. Pecuaria do Pará. B.* 16(70): 9. Sept. 1948. 280.2409 Sol
- 23270 SMITH, L. G. B. Why a faculty of agriculture at Rhodes University College is needed. *Primary Prod.* [Cape Town] 23(37): 7. Sept. 17, 1948. 281.8 P93
- 23271 SOAR, R. H. Have you tried a village festival? *Village* 3(4): 28-29. Winter 1948/49. 281.28 V71
- 23272 SOUTHERN HIGHLAND HANDICRAFT GUILD. Craftsman's fair of the Southern Highlands. Johnson City, Tenn., 1948. 2 p. 317 So8
- 23273 STÖHR, R. Die Notlage der flüchtlingsbauern. *Landw. Wchnbl.* 138: 349. Nov. 6, 1948. 18 L2338  
Germany.
- 23274 SUMMERS, E. Extensión agrícola. - Definición y necesidad de su difusión en el territorio nacional. *Suelo Tico* 1: 21-30. Aug. 1948. 8 Su2  
Costa Rica.
- 23275 TEUBER E., F., FUCHSLOCHER, G., and SCHILLING, O. La acción docente de las escuelas agrícolas [Chile]. *Agr. Austral* 14: 7379-7381. Sept. 1948. 9.3 Ag842
- 23276 THEBIS, H. Flechtarbeiten aus Stroh. *Land, Wald u. Garten* 3: 5-6. Jan. 1948. 18 L22
- 23277 TREMBLAY, A. L'agriculteur canadien-français, étude économique-sociale. *Rev. d'Oka* 12: 157-179. (To be cont.) Sept./Oct. 1948. 7 Ok1
- 23278 U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Report of the Director, 1948. Washington, 1948. 18 p. 1.9 Ag81Er
- 23279 U. S. EXTENSION SERV. Extension work in farm management and related fields, Central States, 1947, by L. M. Schruben. Washington, 1948. 24 p. 1.913 A2Ex837
- 23280 U. S. EXTENSION SERV. Extension work in farm management and related fields, western United States, 1947. Washington, 1948. 30 p. 1.913 A2Ex852
- 23281 U. S. EXTENSION SERV. Report, administrative workshop, Baton Rouge, Louisiana, January 26-February 5, 1948. Baton Rouge, 1948. 224 p. 1.913 C3Ad6
- 23282 U. S. EXTENSION SERV. Roster of delegates, International Farm Youth Exchange Project, 1948. Washington, 1948. 1 p. 1.913 O2R73
- 23283 U. S. EXTENSION SERV. Some interesting facts about Loudoun County, Virginia. Washington? 1948. 1 p. 1.913 A2So526  
Extension work.
- 23284 U. S. EXTENSION SERV. Some interesting facts about Montgomery County, Maryland. Washington? 1948. 2 p. 1.913 A2So525  
Extension work.
- 23285 U. S. EXTENSION SERV. Some interesting facts about Prince William County, Virginia. Washington? 1948. 2 p. 1.913 A2So524  
Extension work.
- 23286 U. S. EXTENSION SERV. Some obstacles to extension program planning. Washington? 1948. 3 p. 1.913 A2So572
- 23287 U. S. EXTENSION SERV. Summary of replies to the question: "The most effective techniques for outlook work that we have used in our State," submitted for use at the 26th annual Outlook Conference, October 11-15, 1948. Washington, 1948. 5 p. 1.913 C3Ou8Su
- 23288 U. S. EXTENSION SERV. Summary of replies to the question: "To improve outlook work in my State I would like to see these things done." Washington, 1948. 4 p. 1.913 A2Su626
- 23289 U. S. EXTENSION SERV. What is going on under RMA that will produce useful source material for consumer education programs, by B. Joy. Oct. 1948. 7 p. 1.913 A2W55
- 23290 U. S. EXTENSION SERV. COMMITTEE TO STUDY WORKSHOP REPORTS. What the workshops say about extension program planning. Washington? 1948. 23 p. 1.913 S2W555
- 23291 VIGNEAULT-DOLAN, C. L'école rurale. *Terre de Chez Nous* 21(15): 11, 14. (To be cont.) Jan. 5, 1949. 7 T27
- 23292 WEITKAMP, E. Dörflicher singkreis. *Unser Hof* 1948: 78-80. 18 Un72
- 23293 WELCH, J. H. The Valley enriched in agricultural education. *Tex. Farming & Citric.* 25(4): 7. Oct. 1948. 80 T31
- 23294 ZANELLI, P. Home industries in rural surroundings. (In Italian.) *Cent. di Studi per l'Ingegn. Agr.* *Mem. ed Atti* 3(1): 4-5. Jan./Mar. 1948. 58.9 C33  
Italy.



## Leadership

- 23295 ROF CODINA, J. El magisterio impulsor de las pequeñas industrias rurales. Valencia Avic. 5(8): 18-19. Sept. 1948. 47.8 V23
- 23296 WAKELEY, R. E. Selecting leaders for agricultural programs. n. p., 1948. p. 384-395. 281.12 W13S

## Rural Organizations and Movements

- 23297 ABEL, P. M. A co-op for every want. Country Guide 67(12): 7, 27-29. Dec. 1948. 7 G76
- 23298 ÄLVSBORGS LÄNS SÖDRA HUSHÄLLNINGSSÄLLSKAP. Report of the Älvsborg Province Southern Agricultural Association for the year 1947. (In Swedish.) Älvsborgs Läns Södra Hushållningssällsk. Kvrtlsskr. 1: 19-166. 1948. 11 AL8K
- 23299 ANTIER, P. Il faut réorganiser l'économie française sur une base professionnelle. Unité Paysanne 3(159): 1, 4. Nov. 20, 1948. 14 Un3
- 23300 ASMIS, W. Neuaufbau der landwirtschaftskammern [Germany]. Neue Mitt. f. die Landw. 3: 423-424. Nov. 25, 1948. 18 N39
- 23301 BARRETO, S. M. Acción ruralista y recursos para llevarla al mayor grado de eficiencia [Uruguay]. Fed. Rural Rev. (ser. 3) 11(30): 161-167. July 1948. 9.9 R322
- 23302 BERTSCH, M. What a Grange can do to serve its community. Prairie Farmer, Gen. Ed. 120 (26): 4, 24. Dec. 18, 1948. 6 P883
- 23303 BILIĆ, A. Albania. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 254-257. Cambridge, 1948. 280.29 H78
- 23304 BILIĆ, A. Yugoslavia. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 248-253. Cambridge, 1948. 280.29 H78
- 23305 BINGHAM, R. F. Nyasaland. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 179-184. Cambridge, 1948. 280.29 H78
- 23306 BJANES, T. Norway. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 237-239. Cambridge, 1948. 280.29 H78
- 23307 BOCARMÉ, P. V. DE. Belgium. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 222-228. Cambridge, 1948. 280.29 H78
- 23308 BÖÖK, Sweden. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 233-236. Cambridge, 1948. 280.29 H78
- 23309 BUCHINGER, R. Die mitgliedschaft im genossenschaftswesen. Landw. Genossenschaftsbl. f. Niederösterreich 45(11): 1-3. Nov. 1, 1948. 280.28 L23
- 23310 CASTAÑEDA, V. E. Sociedades cooperativas. Cám. de Com. e Indus. de Tegucigalpa. B. 2(21): 24-32. (Concl.) Aug. 1948. 287 T23
- 23311 CONGRÈS NATIONAL DE LA MUTUALITÉ DE LA COOPERATION ET DU CRÉDIT AGRICOLES. 29, LA ROCHELLE, 1947. Rapports et compte rendu des travaux. Agen, Impr. Moderne, 1948. 454 p. 280.29 C761929
- 23312 COOPERATIVE DIGEST. The truth about farm cooperatives. Coop. Digest 9(6), 80 p. Dec. 1, 1948. 280.28 C7896
- 23313 COUET, J. M. Le Saguenay, région propice au syndicalisme agricole. Terre de Chez Nous 21(4): 11, 22. Oct. 20, 1948. 7 T27
- 23314 CRAMOIS, A. France. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 229-232. Cambridge, 1948. 280.29 H78
- 23315 CRAWFORD, J. G. Malaya. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 214-221. Cambridge, 1948. 280.29 H78
- 23316 DENT, B. T. What is the 4-H club movement? Golden Gardens 13: 43, 48. Dec. 1948. 80 G56
- 23317 DESCOTEAUX, J. L. Inventaire des coopératives agricoles de la province de Québec. Ensemble! 9 (11): 11. Dec. 1948. 280.28 En7
- 23318 DUSSAULT, C. De cercle en cercle. B. des Agr. 44(10): 15, 70. Oct. 1948. 7 B872
- Farm women's clubs in Canada.
- 23319 FEUSI, H. Aus der geschichte des landwirtschaftlichen kantonalvereins Glarus. Grüne 76: 1156-1162. Oct. 29, 1948. 17 Sch9
- 23320 FLAVIEN, J. Trois ans après la fondation de la C.G.A. Terre 213: 3; 214: 3. Nov. 11/17, 18/24, 1948. 281.8 T27
- France.
- 23321 GAMACHE, C. A. Étude de la loi des sociétés coopératives agricoles. Ensemble! 9(11): 21-22. Dec. 1948. 280.28 En7
- Quebec.
- 23322 GAUTIER-WALTER, A. Faut-il remettre en activité les chambres d'agriculture? Monit. Agr. 1(45): 3. Nov. 21, 1948. 14 M744
- France.
- 23323 GILS, A. La coopération agricole. Rev. de l'Agr. 1: 727-730. Sept./Oct. 1948. 13 R322
- 23324 HEWSON, M. G. Gold Coast, 1947. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 207-208. Cambridge, 1948. 280.29 H78
- 23325 HULL, J. T. Canada: the Prairie Provinces. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 139-153. Cambridge, 1948. 280.29 H78
- 23326 ILARRI, M. La cooperación en Vizcaya. Cooperación 7(78): 4-5. Aug. 1948. 280.28 C7875
- 23327 INFELD, H. F. Cooperation in resettlement and rural rehabilitation (Palestine and Saskatchewan). Appl. Anthrop. 7(3): 1-7. Summer 1948. 280.8 Ap5
- 23328 JENSEN, A. P. We must give co-op side of picture at every opportunity. Midland Coop. 16(17): 4. Dec. 29, 1948. 280.28 M58
- 23329 JOHNSTON, J. Northern Ireland. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 137-138. Cambridge, 1948. 280.29 H78
- 23330 JONES, T. G. Wales: 1945 and 1946. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 124-134. Cambridge, 1948. 280.29 H78
- 23331 KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. Planning the program, Kansas 4-H Clubs! Manhattan? 1947. 16 p. 275.2 K133PLa
- 23332 KENNING, W. Cooperativismo en marcha. Campo [La Paz] 2(18): 43-45. Oct. 1948. 9.1 C15
- 23333 KLINE, A. B. 1949 opportunity and responsibility. Nation's Agr. 24(1): 3-4. Jan. 1949. 280.82 B89
- Organized agriculture.
- 23334 KNAPP, J. G. The United States. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 57-94. Cambridge, 1948. 280.29 H78
- 23335 LABARTHE, E. Los clubs agrícolas juveniles. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPÁ. Ser. para los Agr. 14: 34-36. July 1948. 9.8 P4352
- 23336 LANDBOUW-ECONOMISCH INSTITUUT. Verslag [report] 1947. Den Haag, 1948. 35 p. 281.9 L23
- 23337 LESSLY, W. Farm Bureau in Oklahoma. Nation's Agr. 24(1): 5, 12, 16. Jan. 1949. 280.82 B89
- 23338 LEWIS, J. The first fifty years. Wales U. Col. Agr. Soc. J. 29: 15-20. 1948. 10 Un3
- University College of Wales Agricultural Society.
- 23339 MALFETTANI, L. Italy. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 240-242. Cambridge, 1948. 280.29 H78
- 23340 MYERS, W. I., and PEARSON, F. A. The economic outlook for farmer cooperatives and other agricultural businesses. N. Y. Agr. Col. Farm Econ. 164: 4226-4232. Nov. 1948. 280.8 C812
- 23341 NATIONALE COÖPERATIEVE RAAD. Jaarverslag [annual report], 10th, 1947. n. p., 1947. 12 p. 280.29 N216
- 23342 NOSTI, J. Las cooperativas indígenas en Guinea. Spain. Dir. de Agr. de los Ter. Espan. del Golfo de Guinea. P. 13: 9-30. Madrid, 1948. 24 Sp2
- 23343 ORUEZABAL, J. Problemas que afectan al ruralismo [Uruguay]. Fed. Rural Rev. (ser. 3) 11(30): 170-172. July 1948. 9.9 R322
- 23344 OZOUX, M. La Chambre d'Agriculture de l'île de la Réunion. Rev. Agr. de l'île Réunion (n. s.) 48: 144-153. May/June 1948. 25 R32
- 23345 PEDRETTI, L. Die vergangenheit—ein wegweiser für die zukunft; aufbauarbeit des Bayerischen Bauernverbandes im Kreis Lindau. Allgäuer Bauernbl. 16: 293. Nov. 12, 1948. 18 AL53
- 23346 RIDDALL, C. C. Eire. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 135-136. Cambridge, 1948. 280.29 H78



- 23347 SASKATCHEWAN CO-OPERATIVE PRODUCERS LIMITED. Twenty-fourth annual report. Regina, 1948. 99 p. 59.9 Sa73
- 23348 SECONDI, P. Let us discuss agricultural organizations. (In Italian.) *Agricoltura* [Milano] (n. s.) 29(44): 1. Oct. 30, 1948. 16 Ag862
- 23349 SORBI, U. Rural cooperation in Italy. (In Italian.) *Terra* [Firenze] 59(43): 1-2. Oct. 24, 1948. 16 T274
- 23350 SOUTHERN STATES COOPERATIVE. 25th annual report for the silver anniversary year ending June 30, 1948. Richmond, Va., 1948. 33 p. 280.29 So8A
- 23351 SPANTON, W. T. Feed dealers should know the Future Farmers of America. *Amer. Feed & Grain Dealer* 32(11): 12-13, 33. Dec. 1948. 298.8 C83
- 23352 STAINFORTH, A. G. C. Colonial officials at the Co-operative college. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 172-173. Cambridge, 1948. 280.29 H73
- 23353 STEVENS, S. K. Salute to the Grange. Pa. Farmer 139: 373. Dec. 25, 1948. 6 P383  
Organization and growth in Pennsylvania.
- 23354 TAMAGNINI, G. Cooperation as economic democracy. (In Italian.) *Italia Coop.* 3(38): 1. Sept. 16, 1948. 280.28 It1
- 23355 TAYLOR, C. C. The farmers' movement and large farmers' organizations. In Taylor, C. C., and others. Rural life in the United States, p. 510-521. New York, 1949. 281.2 T21R
- 23356 THOMAS, J. E. La cooperación en el campo. *Cooperación* 7(78): 2. Aug. 1948. 280.28 C7875
- 23357 TOSADOWSKY. German agricultural co-operatives after the collapse. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 243-247. Cambridge, 1948. 280.29 H78
- 23358 UNITED CO-OPERATIVE FARMERS, INC. 20 years of cooperation, 1928-1948. Co-op. Farmer 1948 (sup.), 36 p. Aug. 1948. 280.28 C7868
- 23359 U. S. EXTENSION SERV. Narrative for use with special filmstrip entitled "First Regional 4-H Camp for Negro club members." Washington, 1948. 4 p. 1.913 F3N162
- 23360 VINE, V. We tried farming in Europe. *Farm J.* 72(11): 48, 50. Nov. 1948. 6 F2212  
Young American "exchange" farmers in Europe.
- 23361 VITELES, H. Palestine. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 258-277. Cambridge, 1948. 280.29 H78
- 23362 VITTORANGELI, R. Faith in cooperation. (In Italian.) *Gior. di Agr.* 58: 286. Oct. 17, 1948. 16 It1G  
Italy.
- 23363 WALTNER, E. Four hundred years of cooperation. *Dakota Farmer* 68(20): 5, 14-15. Oct. 16, 1948. 6 D14  
The Jamesville Hutterite Colony in South Dakota.
- 23364 WILSON, J. W. B. Northern Rhodesia. In Horace Plunkett Found. Year book of agricultural co-operation, 1948, p. 174-178. Cambridge, 1948. 280.29 H78
- RURAL SOCIAL PSYCHOLOGY
- 23365 CLAROS, E. Esta tierra casi humana. *Honduras Agr.* 4(40/46): 3-4. Mar./Sept. 1948. 6 H753
- 23366 COLLINS, A. D. Agricultural land and health of the spirit. (In Afrikaans.) *Primary Prod.* [Cape Town] 23(37): 21. Sept. 17, 1948. 281.8 P93
- 23367 MYERS, E. Reason enough to "cuss." *Amer. Agr.* 145: 648, 652. Dec. 4, 1948. 6 Am3  
Farm problems and public opinion.
- 23368 SCHULER, E. A., and TAYLOR, C. C. Farm people's attitudes and opinions. In Taylor, C. C., and others. Rural life in the United States, p. 495-509. New York, 1949. 281.2 T21R
- 23369 SKEFFINGTON, L. B. Consumers must be told. *Amer. Agr.* 145: 631, 641. Dec. 4, 1948. 6 Am3  
Agricultural public relations.
- TRADE FOREIGN AND INTERNATIONAL
- 23370 AHUJA, M. R. India overcoming obstacles in tea export trade. *Spice Mill* 71(12): 54-55. Dec. 1948. 389.8 Sp4
- 23371 ARGENTINA. DIRECCIÓN NACIONAL DE INVESTIGACIONES, ESTADÍSTICA Y CENSOS. Anuario estadístico de la República Argentina, comercio exterior, 1945-1946. Buenos Aires, 1948. 422 p. 255.1 Es82A
- 23372 ARTHUR, F. S. La distribution de la laine dans le monde. *Mouton* 2: 97-99. Oct. 10, 1947. 45.8 M86  
Trade.
- 23373 BANDINI, M. The Italo-French customs union and the livestock industry. (In Italian.) *Allevatore* 4 (37): 1. Sept. 12, 1948. 49 AL55
- 23374 BARON, L. L'exportation des vins marocains en France. *Colon. Franç. de Tunisie* 58(2074): 1, 3. Nov. 20, 1948. 24 C712
- 23375 BRAZIL. SERVIÇO DE ESTATÍSTICA ECONOMICA E FINANCEIRA. Comércio exterior do Brasil; exportação de arroz, 1945-1947 [Foreign trade of Brazil; export of rice, 1945-1947]. Rio de Janeiro, 1948. 5 p. 225.3 Es84Coar
- 23376 CANADA. BD. OF GRAIN COMMISSIONERS. Canadian grain exports, crop year 1946-47. Ottawa, 1948. 27 p. 286.3599 C162D
- 23377 CHEN, C. C. Half year of China's export trade. *China Trade Monthly* 2: 775-776, 808. Sept. 1948. 286.8 C44  
Includes trade in agricultural products.
- 23378 CHENG, Y. S. Future of China's egg exports. *China Trade Monthly* 2: 919-920. Nov. 1948. 286.8 C44
- 23379 CHENG, Y. S. 1947 exports of egg products. *China Trade Monthly* 2: 85. Jan. 1948. 286.8 C44
- 23380 DANS, C. The long voyage home; being the story behind the large-scale importation of livestock from the United States to rehabilitate our animal industry. *Philippine Livestock Mag.* 1: 28-31, 36. Nov. 1947. 49 P53
- 23381 DE GUERIN, B. C. The growth of Guernsey's export trade. *Fruitation* 1948: 23-25, 27. Dec. 1948. 286.83 F949
- 23382 DREUX, D. Limited quantity of Sumatra leaf will arrive next year. *U. S. Tobacco J.* 15(26): 6. Dec. 25, 1948. 286.89 Un3
- 23383 FEIS, H. Effects of trade barriers on world food movements. *Acad. Polit. Sci. Proc.* 23: 179-187. Jan. 1949. 280.9 Ac1
- 23384 FELSINGER, L. Brauchen wir weinimporte? *Osterr. Weinztg.* 3: 333. Oct. 9, 1948. 390.8 Os7
- 23385 FILENI, E. Trade organization and economy. (In Italian.) *Terra* [Firenze] 59(42): 1-2. Oct. 17, 1948. 16 T274
- 23386 FISHER, R. T. Larger raw cotton imports needed if acreage quotas are used. *Cotton Trade J.* 30 (3): 23. Jan. 21, 1949. 72.8 C8214
- 23387 FREY, H. Die richtige lösung: abrechnung von importgetreide nach dem jetzigen verfahren. *Ernährungsdienst* 3(59): 2. Nov. 22, 1948. 389.8 Er62  
Germany.
- 23388 GEISS, H. Hamburg und die westhäfen. *Ernährungsdienst* 3(59): 4. Nov. 22, 1948. 389.8 Er62  
The grain trade.
- 23389 GIBSON, A. L. Great Britain and Canadian cheese export. *Canad. Dairy & Ice Cream J.* 27(12): 49-50, 52-53. Dec. 1948. 44.8 C162
- 23390 HUISMAN, T. P. Handelspartner Deutschland. *Ernährungsdienst* 3(60): 3. (To be cont.) Nov. 25, 1948. 389.8 Er62  
Netherlands-German trade.
- 23391 JENSEN, G. A. Europe's delicacies go to United States. *West. Canner & Packer* 40(13): 49. Dec. 1948. 286.83 W522
- 23392 KEH, K. Review of China's silk trade in 1947. *China Trade Monthly* 2: 77-78, 131-133. Jan. 1948. 286.8 C44
- 23393 LEBRETON, F. Il faut accroître nos exportations. *Fructidor* (n. s.) 14(34): 8. Dec. 5, 1948. 286.83 F9423  
France.
- 23394 LEE, T. Y. Building up China's tea market abroad. *China Trade Monthly* 2: 925, 952. Nov. 1948. 286.8 C44
- 23395 LIMPET, S. H. Greece and Smyrna raisins go to United Kingdom. *West. Canner & Packer* 40(13): 48. Dec. 1948. 286.83 W522
- 23396 MAYAYO, F. La fruta de Aragón en la capital francesa. *Ceres* 13(147): 24-25. Sept. 1, 1948. 15 C33



23397 MOOK, H. H. VAN. Is our selection of export tomatoes, all right? (In Dutch.) *Groenten en Fruit* 4: 284. Nov. 11, 1948. 80 G89

23398 MUNILLA LACASSA, O. Production and exportation of Argentine fruit. *Fruit Ann.* (1947/48) 2: 107, 110. 1947. 225 F943

23399 NORRIS, P. K. Foreign outlets for American cotton. Washington, U. S. Off. Foreign Agr. Relat., 1948. 12 p. 1.943 N79

23400 ORENSANZ MOLINÉ, J. La importación de ganado y la mejora de la ganadería nacional. B. de Divulg. Ganad. [Valladolid] 5(18): 9-15. June 1948. 49.9 Sp12

23401 ØSTERGAARD, S. Danish potatoes; rising exports of seed and ware potatoes. Danish Foreign Off. J. 3: 15-18. July/Sept. 1948. 286.8 D22

23402 PRIESTMAN, H. L. E. Eire ensures market for foodstuffs by new agreement with Britain. *Foreign Trade* 4: 1135-1136. Dec. 4, 1948. 286.8 C162

23403 RICHARDS, A. E. The Havana Charter for an international trade organization. *Econ. Annal.* 18: 76-79. Nov. 1948. 281.8 Ec72

23404 ROBERS, F. H. The sale of Dutch eggs. *World's Poultry Cong. Off. Rpt.* 8: 527-531. 1948. 47.9 W898O

French summary.

Export trade.

23405 RODDA, A. G. Imports. New Zeal. Dept. Agr. B. 279: 49-56. 1947. 23 N48Bu

23406 SAN JOSÉ CANO, L. Nuestro comercio exterior [Spain]. *Ceres* [Valladolid] Sup. Inform. 12(407): 5-6. Oct. 15, 1948. 15 C33 suppl.

23407 SHAW, K. W. China's export problems and her tea trade. *China Trade Monthly* 2: 79-80. Jan. 1948. 286.8 C44

23408 STAUNING, A. Apple export. (In Danish.) *Gart. Tid.* 64: 570-571. Nov. 24, 1948. 80 G192 Denmark.

23409 STEUR, J. J. Trade conditions in the Netherlands East Indies. *Tobacco Leaf* 85(4377): 27, 70. Jan. 1, 1949. 286.89 T557

23410 SUTHERLAND, E. W. Notes of Britain's war-time egg import problems. *World's Poultry Cong. Off. Rpt.* 8: 498-503. 1948. 47.9 W898O

French summary.

23411 TAN, C. T. A forecast on Japan's foreign trade in 1950. (In Chinese.) *Cent. Bank Monthly* 3(8): 20-25. Aug. 1948. 280.9 C335

23412 TANGANYIKA TERRITORY. Trade report, 1947. *Das es Salaam*, 1948? 154 p. 270 T152

23413 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Declared exports of edible tree nuts to United States. Washington? 1948. 2 p. 1.943 D35

23414 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. United States foreign trade in agricultural products, by commodity and by country, annual fiscal year 1946-47 and 1947-48. Washington, 1948. 70 p. 1.943 F76242

23415 WONG, L. S. Outlook of China's tung oil trade in 1948. *China Trade Monthly* 2: 67-70, 128-130. Jan. 1948. 286.8 C44

23416 WU, V. K. China's cotton goods exports. *China Trade Monthly* 2: 73-74, 126. Jan. 1948. 286.8 C44

## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

### GENERAL

23417 BALSLEY, M. B. Increasing the "invisible milk" in the daily food intake. *Amer. Dietet. Assoc. J.* 25(1): 58, 60, 62, 64, 66. Ref. Jan. 1949. 389.8 Am34

23418 BRENNOR, S. Experimentation with dried yeast for use in foods. (Abs.) *Brewers Digest* 23(11): 50. Oct. 1948. 390.8 B75

23419 CINTRA, A. B. DE U. Nutritional deficiencies in the American Tropics. *Internatl. Cong. Trop. Med. and Malaria. Abs.* 4: 97-98. 1948. 150.1 C766

23420 CLAYTON, C. B. Keeping up to date on nutrition. III. *Pract. Home Econ.* 27(1): 30, 34. Jan. 1949. 321.8 H752

23421 CLUVER, E. H. Combating malnutrition in South Africa. *Food Indus. So. Africa* 1(3): 17-18, 30. July 1948. 389.8 F7372

23422 DEN HARTOG, C., and SCHAİK, T. F. S. M. V. Examination of the usual method of nutrition research. (In Dutch.) *Voeding* 9: 200-204. (To be cont.) Oct. 15, 1948. 389.8 V85

23423 DESMOND, T. C. Can food keep you young? In N. Y. (State) Legis. Jt. Com. on Problems of the Aging. Birthdays don't count. p. 234-242. Albany? 1948. 280 N487

23424 DOD, D. D. Rehabilitating people by rehabilitating goats. *Dairy Goat J.* 27(1): 9-10. Jan. 1949. 40.18 M592

23425 EGYPT. MINISTRY OF EDUCATION. SCHOOL MEDICAL SERV. DEPT. Report on school feeding in Egypt. Cairo, Govt. Press, 1948. 28 p. 389.1 Eg9

23426 GILLMAN, T., and GILLMAN, J. Nutritional diseases in South Africa and the problem of prevention by dietary supplements. *Internatl. Cong. Trop. Med. and Malaria. Abs.* 4: 96-97. 1948. 150.1 C766

23427 HOCKETT, R. G. The role of soft drinks in nutrition. *Amer. Carbonator & Bottler* 87(576): 78. Dec. 1948. 389.8 So8

23428 HOELZEL, F. Nutrition and efficiency. *Amer. J. Digest. Dis.* 15: 416-421. Ref. Dec. 1948. 448.8 Am324

23429 HORA, S. L. Role of fisheries for the improvement of nutrition of the Indian people. *Indian Farming* 8: 280-281. June 1947. 22 In283

23430 HUGGETT, A. ST. G. Nutrition and pre-natal development. (Abs.) *Chem. & Indus.* 1948: 747. Nov. 20, 1948. 382 M31C

23431 HULT, M. Nutrition research and the dairy industry. *Nutr. News* 12: 5. Dec. 1948. 389.8 N957

23432 IRWIN, R. E. A nutrition survey in New York State. *Nutr. News* 12: 7. Dec. 1948. 389.8 N957

23433 JEANS, P. C. Recent revisions in the recommended dietary allowances. *Amer. Dietet. Assoc. J.* 25(1): 13-17. Ref. Jan. 1949. 389.8 Am34

23434 JOHNSON, R. E. Tropical deterioration and nutrition. *Internatl. Cong. Trop. Med. and Malaria. Abs.* 4: 7. 1948. 150.1 C766

23435 KING, C. G. Nutrition. *Acad. Polit. Sci. Proc.* 23: 118-124. Jan. 1949. 280.9 Ac1

23436 MCCAY, C. M. Experiences in use of yeast in community and industrial feeding. (Abs.) *Brewers Digest* 23(11): 50. Oct. 1948. 390.8 B75

23437 MCCLARY, J. E. Dry, pastes, hydrolysates, autolysates, flavors. (Abs.) *Brewers Digest* 23(11): 48. Oct. 1948. 390.8 B75

23438 MACY, I. G., and SLOAN, R. E. Methods of nutrition research and their application. *Rec. Chem. Prog.* 9: 57-67. Ref. Summer 1948. 381 R24

23439 MARQUARDT, J. C. Why calcium? *Amer. Butter & Cheese Rev.* 10(12): 38-39. Nov. 1948. 44.8 Am37

In human nutrition.

23440 MARRACK, J. R. Laboratory investigations into the state of nutrition. *Brit. J. Nutr.* 2: 147-175. 1948. 389.8 B773

Great Britain.

23441 MAYER, A. L'importance des "corps gras" dans l'alimentation humaine. *France. Min. de l'Agr. B. Tech. d'Inform.* 28/29: 133-134. Apr./May 1948. 14 F844B

23442 MAYNARD, L. A. Translating dietary allowances into foods and diets. *Amer. Dietet. Assoc. J.* 25(1): 18-20. Jan. 1949. 389.8 Am34

23443 MAYR, R. Der gegenwärtige einsatz von sojaerzeugnissen in der deutschen ernährungswirtschaft. *Getreide, Mehl u. Brot* 2: 140-141. Sept. 1948. 298.8 G33

23444 OBERMER, E. Wartime rationing and nutrition in pregnancy. First communication. *J. Hyg. [London]* 46: 325-330. Sept. 1948. 449.8 J82



- 23445 PINTO ALVAREZ, A. Alimentación a través de la historia. Estudio comparativo entre los pueblos primitivos y civilizados.—Labor del bromatólogo. *Rev. Quím.-Farm.* 6(65): 4-6. July 1948. 396.8 R32
- 23446 PYKE, M. Visual aids to nutrition education for the public. *Nutr. Revs.* 6: 353-355. Dec. 1948. 389.8 N953
- 23447 RANDOIN, L. Comment faut-il alimenter les jeunes de 10 à 15 ans? *Soc. Sci. d'Hyg. Aliment. B.* 36: 145-150. 1948. 389.9 So1B
- 23448 RAO, M. V. R. Some common deficiency diseases in India. *Internatl. Cong. Trop. Med. and Malaria. Abs.* 4: 95. 1948. 150.1 C766
- 23449 ROA URIARTE, E. El gobierno norteamericano se preocupa por la salud de su pueblo. *Agronomía [Habana]* 8(9): 13. Sept. 1948. 8 C893
- Nutrition.
- 23450 SCHAIK, T. VAN. Nutrition in the Netherlands. 1. Food education: Information Bureau of the Food Board of the Netherlands Government. *Nutr., Dietetics, Catering* 2: 141-143. Winter 1948. 389.8 N959
- 23451 SCHATZ, S. J. The principles of nutrition. *Calif. Dairyman* 28(23): 31-33. (To be cont.) Dec. 18, 1948. 44.8 C12
- 23452 SHORTEN, N. E. The business of living. Chicago, Adv. Aluminum Castings Corp., 1947. 323 p. 386.3 Sh8
- Nutrition.
- 23453 SYMPOSIUM held on yeasts in feeding. *Brewers Digest* 23(11): 47-50; (12): 52-54. Nov.-Dec. 1948. 390.8 B75
- 23454 THOMPSON, C. E., and ISHERWOOD, A. V. Nutrition in paraplegia: a preliminary report. *Amer. Dietet. Assoc. J.* 24: 1054-1056. Dec. 1948. 389.8 Am34
- 23455 TUTTLE, W. W., and others. Influence of various levels of thiamine intake on physiologic response. III. Reaction time. *Amer. Dietet. Assoc. J.* 25(1): 21-27. Jan. 1949. 389.8 Am34
- M. Wilson, K. Daum, and H. Rhodes, joint authors.
- 23456 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Increasing the efficiency of the school lunch kitchen. U. S. D. A. PA-61, 21 p. Nov. 1948. 1 Ag84Pro
- U. S. Production and Marketing Administration cooperating.
- 23457 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Nutrition; a list of references to motion pictures. Washington, 1948. 13 p. 1.913 M3N95
- 23458 U. S. OFF. OF EXPERIMENT STATIONS. Research in foods, human nutrition, and home economics at the land-grant institutions; list of published and processed reports, by C. Justin and G. Adams. Washington? 1948. 32 p. 1.9 Ex6Ho
- 23459 U. S. PRODUCTION AND MARKETING ADMIN. Planning and equipping school lunchrooms. U. S. D. A. PA-60, 19 p. July 1948. 1 Ag84Pro
- 23460 VELEZ BOZA, F. La alimentación y la nutrición en Venezuela. Venezuela. Min. de Sanid. y Asistencia Social. *Rev. de Sanid. y Asistencia Social* 13(1/2): 1-188. Jan./Apr. 1948. 449.9 V55
- English summary.
- 23461 WELLS, L. P. What is being done in Oregon schools to promote a scientific understanding of wheat in the daily diet. (1947)20: 69, 71, 73. 1948. 59.9 Ea73
- 23462 WOODS, R. Dietary interrelationships: nicotinic acid-tryptophane. *Borden's Rev. Nutr. Res.* 9(10), 12 p. Ref. Dec. 1948. 389.8 B64
- 23463 WU, H. Nutritional deficiencies in China and southeast Asia. *Internatl. Cong. Trop. Med. and Malaria. Abs.* 4: 95-96. 1948. 150.1 C766
- FOOD HABITS
- 23464 BUREMA, J., SCHAIK, T. VAN, and WOONINK, B. Enquiry into the composition of breakfast in rural districts in the Netherlands. (In Dutch.) *Voeding* 9: 189-200. Ref. Oct. 15, 1948. 389.8 V85
- Summary in English and French.
- NUTRITIVE AND VITAMIN CONTENT
- 23465 AMOR, J. H. Tiamina y ácido nicotínico en el pan y en la harina de panificación. La Plata. U. Nac. Facul. de Cien. Quím. *Rev.* 21: 81-90. 1946, pub. 1947. 385 L31
- 23466 BÉGIN, P. E. Le breuvage lacté au chocolat est un aliment sain, nutritif et recommandable pour les enfants d'âge scolaire. *Québec Lait* 7(11): 10-14. Nov. 1948. 44.8 Q3
- 23467 CUNHA BAYMA, A. Soybean flour in nutrition. (In Portuguese.) *Criação e Vet.* 2: 131. June 1947. 49 C86
- 23468 GOVONI, A. Notes on nutrition: eggs and milk (In Italian.) *Allevamenti* 2: 245-246. Oct. 1947. 49 AL52
- 23469 GRAVIOTO, R. O., and others. Valor nutritivo de la tortilla. *Cám. de Com. e Indus. de Tegucigalpa. B.* 2(23): 39-42. Oct. 1948. 287 T23
- R. K. Anderson, E. E. Lockhart, F. de P. Miranda, and R. H. Harris, joint authors.
- 23470 HOESSLIN, H. VON. Bier oder brot? *Brauwelt* 1948(6): 115-116. Mar. 18, 1948. 390.8 B732
- Nutritive value.
- 23471 HUGLE, M. C. Las zanahorias son notable alimento para los humanos y para los animales. *Honduras Agr.* 4(40/46): 23-24. Mar./Sept. 1948. 6 H753
- 23472 HULT, M. Dairy products in national nutrition. *Amer. Milk Rev.* 11(1): 44-45, 48. Jan. 1949. 44.8 Am38
- 23473 JAMES, D. P. Some vitamins of the B group in cider. *Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt.* 1947: 192-196. 84 B77
- 23474 KUMMEROW, F. A., CHU, T. K., and RANDOLPH, P. Effects of autoxidation on antiacrodynic potency of fats and linoleic esters. *J. Nutr.* 36(5): 523-536. Ref. Nov. 10, 1948. 389.8 J82
- 23475 KUPPERS-SONNENBERG, G. A. Stärkewert und Nährwert der topinambur. *Kurzbriefe f. Ernähr. u. Landw.* 1948(9): B I 3, 6 p. Sept. 1948. 281.8 K96
- 23476 LYMAN, J. F. Importance of the soybean in nutrition. *Soybean Digest* 9(2): 16-17. Dec. 1948. 60.38 So9
- 23477 MCMILLEN, C. Goat milk miracles make enthusiasts. *Dairy Goat J.* 27(1): 8. Jan. 1949. 40.18 M592
- 23478 MILLER, L. A., and BURTON, H. B. The ascorbic acid value of some extra foods. *Okl. Acad. Sci. Proc.* 28: 67-68. 1948. 500 Ok42
- 23479 MOORE, E. E. Natural mineral resources; importance of their use in the diet. *New Zeal. J. Agr.* 77: 307-309, 311-312. Sept. 1948. 23 N48J
- 23480 NATH, H., and others. Studies of the alleged growth promoting property of vaccenic acid. *J. Nutr.* 36: 761-772. Ref. Dec. 10, 1948. 389.8 J82
- V. H. Barki, C. A. Elvehjem, and E. B. Hart, joint authors.
- 23481 NEUBERG, C. Carbohydrates in yeast. (Abs.) *Brewers Digest* 23(11): 49. Oct. 1948. 390.8 B75
- 23482 NOBLE, I., GORDON, J., and CATTERSON, L. Thiamine and riboflavin retention in beef tongue. *Amer. Dietet. Assoc. J.* 24: 1068-1069. Ref. Dec. 1948. 389.8 Am34
- 23483 NOBLE, I., GORDON, J., and CATTERSON, L. Thiamine and riboflavin retention in pork sausage. *Amer. Dietet. Assoc. J.* 25(1): 50-52. Jan. 1949. 389.8 Am34
- 23484 PARSONS, H. T. Vitamin availability. (Abs.) *Brewers Digest* 23(11): 50. Oct. 1948. 390.8 B75
- In yeasts.
- 23485 PETERSON, W. H. Vitamins and minerals of yeast. (Abs.) *Brewers Digest* 23(11): 50. Oct. 1948. 390.8 B75
- 23486 PHILLIP, A. G. Grapefruit for health. *West Punjab Fruit J.* 12(44): 27-29. Jan./Apr. 1948. 80 P962
- 23487 RICHE, F. J. H. LE. Nutritive value of certain dried fruits. *West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser.* 54, 5 p. Jan. 1947. 87 St3
- 23488 RONCAL, A. Valor de las ensaladas en las comidas y en la nutrición. *Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 14: 44-45. July 1948. 9.8 P4352
- 23489 SCOTT, L. E., and WALLS, E. P. Ascorbic acid in tomato juice. *Tri-State Packers' Assoc. Tomato B.* 11: 18-20. July 10, 1948. 280.39 T73T
- 23490 SEGARD, C. P. Milk in human nutrition. *South. Dairy Prod. J.* 44(6): 146-148, 150-151. Dec. 1948. 44.8 So83
- Also in *Milk Dealer* 38(3): 114-118. Dec. 1948. 44.8 M595; *Milk Plant Monthly* 37(12): 58-59, 108-109. Dec. 1948. 44.8 C864



- 23491 SEYBERTH, E. Die schwarze maubere, eine schmackhafte frucht mit grossem vitaminegehalt und hohem gesundheitswert. Landfrau 3(17/18): 27. Sept. 1948. 18 L2337
- 23492 SINGH, R. P., BHALLERAO, V. R., and ANANTAKRISHNAN, C. F. Nutritive value of raw and boiled milks of cows and buffaloes. Indian J. Vet. Sci. & Anim. Husb. 17: 113-118. June 1947. 41.8 In22
- 23493 SURE, B., and ROMANS, F. Influence of the concentration of mixtures of various components of the vitamin B complex on biological value of casein and on economy of food utilization. J. Nutr. 36: 727-737. Ref. Dec. 10, 1948. 389.8 J82
- 23494 THOMAS, M. H., and others. Effect of electronic cooking on nutritive value of foods. Amer. Dietet. Assoc. J. 25(1): 39-45. Ref. Jan. 1949. 389.8 Am34
- S. Brenner, A. Eaton, and V. Craig, joint authors.
- 23495 TUCKER, R. E. Acceptability and ascorbic acid content of frozen Rhode Island vegetables. R. I. Agr. Expt. Sta. B. 302, 24 p. Ref. Aug. 1948. 100 R34S
- 23496 WOKES, F., and NUNN, G. Vitamin C in potatoes. Nature [London] 162: 900-901. Dec. 4, 1948. 472 N21
- 23497 ZEIDLER, E. Gesundheit aus dem obstgarten Thür. Gartenbau 1947(9): 4. Aug. 1, 1947. 80 T42

## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 23498 ADAMSON, M. A. Conservation on the farm property. In Conf. on Conserv. in So. Cent. Ontario, 1946. Conserv. in So. Cent. Ontario, p. 75-88. 1948. 279.135 C76
- 23499 ASHBY, E. Genetics in the Soviet Union. Nature [London] 162: 912-913. Dec. 11, 1948. 472 N21
- 23500 BAUMGARTNER, W. Rattenbekämpfung. Mühlen-Ztg. 2: 142. Sept. 25, 1948. 298.8 M893
- 23501 BENNETT, H. D. Conservation in action! Miss. Val. Lumberman 79(52): 9-10. Dec. 24, 1948. 99.81 M69
- 23502 BRANNAN, C. F. Public service unlimited. Washington, U. S. D. A., 1948. 9 p. 1.91 A2B73
- Services of the Department of Agriculture.
- 23503 CALIFORNIA AGRICULTURAL EXPERIMENT STATION. Agricultural publications [California University, College of Agriculture]. Berkeley, 1948. 34 p. 100 C12Li
- 23504 CHEN, T. H. A preliminary report of rat-poison with red squill, "1080" and ANTU. Chin. Med. J. 66: 384-386. July 1948. 448.8 C44
- 23505 COLORADO AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION SERV. List of publications for free distribution. Fort Collins, 1948. 6 p. 275.29 C71L
- 23506 CONN, H. G. The history of staining. Ed. 2. Geneva, N. Y., Biotech P., 1948. 143 p. 442 C763H
- 23507 DAVIDSON, J. B. Habitat improvement on the farm. Northeast. Game Conf. Proc. 1948: 115-116. 412.9 N44
- 23508 EDMISTER, F. C. Farm fish ponds in Northeast. Northeast. Game Conf. Proc. 1948: 49-52. 412.9 N44
- Summary of talk.
- 23509 ERSHOVA, I. P. Data of an ecologo-physiological basis for the bait method of Arvicola terrestris control. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 178-185. 1948. 464.9 L542S
- 23510 FALKENSHTEIN, B. IU., and MOKEEVA, T. M. Prospects for the method of dusting burrows with intestinal poisons in rodent control. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 186-190. 1948. 464.9 L542S
- 23511 FRUHSTORFER. Ist der maulwurf nützlich oder schädlich? Land, Wald u. Garten 3: 62-63. Mar. 1948. 18 L22
- 23512 GERARD, E. Détruisons les corbeaux. Monit. Agr. 1(48): 12. Dec. 12, 1948. 14 M744
- 23513 GODIN, A. La lutte contre les campagnols. Avenir Paysan de la Haute-Marne 4(77): 1. Nov. 19, 1948. 14 Av3
- 23514 GOSSELIN, L. A. Première technique microscopique pour la numération sûre des chromosomes. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 74-75. 1948. 517 M76
- 23515 GUILLÉN, P. Nuevos conceptos acerca de la reacción de fijación del complemento y nueva técnica para la práctica de dicha reacción. Zootecnia 7(15/18): 18-66. Jan./Dec. 1946, pub. July 1948. 41.8 G15
- 23516 HAWAIIAN ACADEMY OF SCIENCE. Proceedings of the twenty-third annual meeting, 1947-1948. Honolulu, T. H., 1948. 12 p. 500 H31A
- 23517 HERMANN, F. Vom gen zum merkmal. Orion 3: 481-485. Nov. 15, 1948. 474 Or4
- 23518 JOHNSON, E. Lawsuits, economic poisons. Calif. Citrog. 34: 5, 29-32. Nov. 1948. 80 C125
- 23519 KLOSE, H. Kampf dem sperling! Bauern-Jahrb. 1948: 81-82. 18 B322
- 23520 LOHNIS, M. P. Rol der micro-organismen in het dagelijks leven [Role of micro-organisms in everyday life]. Gorinchem, Noorduijn, 1948. 98 p. 448.2 L834
- 23521 LOMA, J. L. DE LA. Cálculo de las relaciones fenotípicas en la generación  $F_{n+1}$  de un cruzamiento en que los individuos de  $F_1$  son heterocigotes para n pares de factores, cuando las generaciones sucesivas se reproducen por autofecundación. Chapingo 25: 115-117, 138. Sept. 1948. 102 C36
- 23522 LÜDEMANN. Zur vermehrung und nützung von schleien. Land, Wald u. Garten 3: 10. Jan. 1948. 18 L22
- Farm fishponds.
- 23523 OKLAHOMA ACADEMY OF SCIENCE. Proceedings, 28th, 1947. Norman, 1948. 137 p. 500 Ok42
- 23524 PEREY, M. Méthodes chimiques et physiques de marquage en biologie. Ann. Biol. [Paris] (Ser. 3) 24: 1-14. Ref. Jan. 1948. 442.8 An7
- Staining, radioactive tracers, etc.
- 23525 PIERANTONI, U. Trattato di zoologia sistematica. II. (Treatise on systematic zoology. II.) Napoli, Casa Editrice Libreria "Humus," 1947. 367-622 p. 411 P61
- 23526 POTTER, G. E. Essentials of zoology, emphasizing principles of animal biology. Ed. 2. St. Louis Mosby, 1948. 544 p. Ref. 411 P85E
- 23527 QUEBEC. MINISTRE DE L'AGRICULTURE. Rapport, 1946/47, 117 p. 7 Q3
- 23528 RHODE ISLAND. DEPT. OF AGRICULTURE & CONSERVATION. Thirteenth annual report, 1947. 107 p. n. p., 1948? 2 R344
- 23529 SHVETSOVA, O. I. Experiment in using the bacterial method in the control of Stenocranus gregalis in Altai Region. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 191-193. 1948. 464.9 L542S
- 23530 SIEROTWIŃSKI, S. The problem of the theory, of bibliography. (In Polish.) Życie Nauki 5: 328-339. May/June 1948. 475 Z9
- English summary, p. 446-447.
- 23531 SINKS, A. H. Don't underrate Brother Rat. Country Gent. 118(11): 17, 128-130. Nov. 1948. 6 C833
- Control program.
- 23532 SOUTHERN RHODESIA. DEPT. OF AGRICULTURE AND LANDS. Report of the Secretary... for the year ended 31st December, 1947. Salisbury, 1948. 22 p. 24 R344
- 23533 STAEHELIN. Kampf den ratten — eine sommer-arbeit. Geflügelhof 11: 404. July 2, 1948. 47.8 G276
- 23534 SURCO, almanaque agrícola 1948. Madrid, 1948. 191 p. 15 Su72
- 23535 U. S. BUR. OF ANIMAL INDUSTRY. Directory of the Bureau of Animal Industry. Rev. Washington, 1948. 68 p. 1.917 A2D631
- 23536 U. S. DEPT. OF AGRICULTURE. Slide-films. U. S. D. A. Misc. P. 655, 21 p. Nov. 1948. 1 Ag84M
- 23537 U. S. DEPT. OF AGRICULTURE. OFF. OF PLANT AND OPERATIONS. Report, 1947/48. Washington, 1948. 12 p. 1 Op2
- 23538 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. Report, 1947/48. Washington, 1948. 30 p. 1 Ag84; also 1 So45R



- 23539 VIRA, R. Indianization of scientific terminology. Sci. Club. J. 2: 16-18. Aug. 1948. 475 Sci29
- 23540 WEITNAUER, E. Mäuseplagen und ihre bekämpfung in den letzten zehn Jahren. Schweiz. Naturschutz 14: 113-116. Nov. 1948. 279.8 Sch9  
Summary in French.

## HISTORY AND BIOGRAPHY

- 23541 BAILEY, W. L. Wordsworth's ideal country pastor: the Rev. Robert Walker, 1709-1802. Town & Country Church 48: 10-11. Dec. 1948. 281.28 T66
- 23542 BINAGHI, G. Guido Paoli. (In Italian.) Soc. Ent. Ital. Mem. 26(sup.): 3-12. 1947. 420 R1M  
List of the publications of Prof. Guido Paoli, p. 13-19.
- 23543 DONALD, J. A famous potato raiser; Donald Mackelvie, 1865-1947. Young Farmer 16: 171-172. Nov./Dec. 1948. 10 Y8  
Fifth in a series of articles on great men in agriculture.
- 23544 GREIG, R. James Clark, a great and forgotten veterinarian. Vet. Rec. 60: 662-664. Dec. 11, 1948. 41.8 V641
- 23545 GUILLAUMIN, A. Collignon, jardinier du voyage de La Pérouse. Paris. Mus. Natl. d'Hist. Nat. B. (ser. 2) 20: 96-100. Jan. 1948. 410.9 P213
- 23546 HALLE, J. Aus der Landwirtschaft vor hundert Jahren. Land, Wald u. Garten 3: 54-56. Mar. 1948. 18 L22
- 23547 JACOBSEN, H. Professor Kurt Dinter. Sukkulantenkunde 1: 56. June 1947. 450 Su42
- 23548 KRUPIN, G., and GRISHCHENKO, A. A prominent Soviet scientist; Semen Vasil'evich Parashchuk. (In Russian.) Moloch. Promysh. 9(6): 16-17. June 1948. 44.8 M734
- 23549 LE GALLO, C. Trois botanistes aux Iles Saint-Pierre et Miquelon pendant le 19ième siècle. Nat. Canad. 75: 187-196. Aug./Oct. 1948. 410 N216  
J. M. Bachelot de la Pylaie, Alphonse Gautier and Ernest A. Delamare.
- 23550 MATEEV, B. S. Aleksey Nikolaevich Severfsov and Darwin's teachings. (In Russian.) Akad. Nauk SSSR. Izv., Ser. Biol. 1948: 262-272. May/June 1948. 511 Sa2B
- 23551 PINTO, P. A. Carl von Linné; biographical notes for future study. (In Portuguese.) Rev. da Flora Med. 15: 340-346. Aug. 1948. 71.8 R32
- 23552 ROY, J. B. Hommage à un pionnier de l'aviation, le R. F. Wilfrid. Avic. Québécois 3(7): 8-9. July 1948. 47.8 Av55
- 23553 TOMME, M. F., and KOCHETKOVA, A. S. On the one hundred anniversary of the birth of professor Nikolai Petrovich Chirvinskii. (In Russian.) Konevodstvo 18(4): 4-6. July/Aug. 1948. 42.8 K832
- 23554 VAN ZANDT, R. Horace Greeley, agrarian exponent of American idealism. Rur. Sociol. 13: 411-419. Dec. 1948. 281.28 R88

## HOME MANAGEMENT

- 23555 DELAWARE. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Hooked rugs for Delaware homemakers, by A. M. Hoffman. Newark, 1948. 9 p. 275.2 D37Hr
- 23556 IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Buttonholes. Ames, 1948. 4 p. 275.2 I092But
- 23557 IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Necklines. Ames, 1948. 4 p. 275.2 I092Ne
- 23558 IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Plackets. Ames, 1948. 4 p. 275.2 I092Pk
- 23559 IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Pockets. Ames, 1948. 4 p. 275.2 I092Poc
- 23560 OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Every motion counts. Ohio. Agr. Col. Ext. B. 301, 4 p. Sept. 1948. 275.29 Oh32  
Home management.
- 23561 PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Información sobre colores, by A. M. Rivera. Rio Piedras? 1948. 7 p. 275.2 P96Inf
- 23562 ROBINSON, C. B. Color in the home. Okla. Agr. Col. Ext. C. 493, 31 p. 1948? 275.29 Ok41C

- 23563 U. S. EXTENSION SERV. National Home Demonstration Week, 1948; western States. Washington, 1948. Oct. 1948. 12 p. 1.913 H2N215
- 23564 U. S. EXTENSION SERV. DIV. OF FIELD STUDIES AND TRAINING. Summary, home demonstration work, Massachusetts, 1947. Washington? 1948. 2 p. 1.913 S2Su65

## INTERNATIONAL RELATIONS

- 23565 INTER-AMERICAN CONFERENCE ON CONSERVATION OF RENEWABLE NATURAL RESOURCES, DENVER, 1948. Consv/gen, 1, 4-7, 9-10, 12, 32. 1948. 279.9 In83Ce  
Editions in English and Spanish (279.9 In83C) of the Program, Guide, Field Trips, Inspection and Tour, Exhibits, and List of Participants.  
Includes soil conservation, forestry, and irrigation.

## METEOROLOGY

- 23566 DELYS, R. Les préjugés sur la lune. Acclimatation 75: 250. Nov. 27, 1948. 14 Ac2
- 23567 GEORLETTE, A. La pluie provoquée. Ann. de Gembloux 54: 223-224. Third Quart. 1948. 13 G28
- 23568 PARSHALL, M. Summary of meteorological data at Colorado Agricultural Experiment Station, Fort Collins, Colorado, from 1887 to 1947. Colo. Agr. Expt. Sta. B. 402-A, 22 p. June 1948. 100 C715
- 23569 ROY, L. La lluvia artificial en el Canadá. IDIA; Inform. de Invest. Agr. 1(11): 5-6. Nov. 1948. 9 Id3
- 23570 STAPLETON, H. N. Meteorological observations for September 1948. Mass. Agr. Expt. Sta. Met. Ser. B. 717, 4 p. Sept. 1948. 100 M38H
- 23571 U. S. DEPT. OF AGRICULTURE. LIBRARY. A bibliography on snow: list of references to material published 1940-1947, by D. W. Gooch. Washington? U. S. Forest Serv., 1948. 24 p. 1.916 B472  
Compiled in the U. S. Department of Agriculture Library, but not mimeographed or distributed by the Library.

## PERSONNEL

- 23572 U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Statutes affecting personnel administration in the United States Department of Agriculture. Washington, 1948. 28 p. 1.917 A2St23

## RESEARCH

- 23573 BAQUÉ, Z. La recherche en agriculture. Terre d'Oc 30: 168-173. May 1948. 14 Ar5
- 23574 CHAPRON, C. La recherche biologique en U. R. S. S. Unité Paysanne 3(159): 1, 4. Nov. 20, 1948. 14 Un3
- 23575 DESSUREAUX, L. Années de recherches agricoles à la station expérimentale de Ste.-Anne de la Pocatière. B. des Agr. 44(10): 5-6, 38-39, 40. Oct. 1948. 7 B872
- 23576 DOUGHERTY, J. L. Agricultural research in the U. S. A. Primary Prod. [Cape Town] 23(37): 19. Sept. 17, 1948. 281.8 P93
- 23577 DOUGHERTY, J. L. The importance of agricultural research in South Africa and United States. Farmer & Home Companion 37(44): 19. Oct. 29, 1948. 28 F227
- 23578 GREAT BRITAIN. COLONIAL PRODUCTS RESEARCH COUNCIL. Fifth annual report (1947-1948). London, 1948. 16 p. 330.9 G796
- 23579 GREGORY, E. J., and MARSTON, L. S. Grove Place Agricultural Station, Farmer [Kingston] 52: 42-43. Jan./Mar. 1948. 8 J223
- 23580 HODGSON, R. E. The need and importance of agricultural research. U. S. Bur. Dairy Indus. BDIM-Inf-66, 5 p. Dec. 1948. 1.973 D4B34
- 23581 HUTCHINGS, C. D. Irwin Agricultural Station. Farmer [Kingston] 44-45. Jan./Mar. 1948. 8 J223
- 23582 MONTREAL UNIVERSITY. INSTITUT AGRICOLE D'OKA. Agronomie. Québec, 1947/1948. 48 p. 101 OkII
- 23583 ROA URIARTE, E. Lo que estan haciendo los centros de investigaciones de Norteamérica. Agronomía [Habana] 8(10): 27. Oct. 1948. 8 C893



23584 TEUSCHER, H. Buitenzorg, Java— center for scientific research. Parks & Recreation 32: 34-37. Jan. 1949. 99.8 P23

23585 THOMPSON, A. R. La ciencia y la vida agropecuaria en los Estados Unidos de Norte América. Inst. Agr. Argentino. Reseñas 8(60), 12 p. Buenos Aires, 1948. 281.9 B862

23586 TIPTON, B. What ails the Blacklands? Acco Press 26(12): 1-9. Dec. 1948. 6 Ac2  
The Texas Research Foundation.

23587 U. S. OFF. OF EXPERIMENT STATIONS. Report, 1947/48. Washington, 1948. 22 p. 1 Ex6A

23588 U. S. OFF. OF EXPERIMENT STATIONS. Research projects classification index. Washington? 1948? 34 p. 1.912 R312

23589 WRIGHT, J., and STUART, W. G. Orange River Agricultural Station. Farmer [Kingston] 52: 36-42. Jan./Mar. 1948. 8 J223



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Agricultural Information Series

U. S. BUR. OF AGRICULTURAL ECONOMICS. People and potatoes. U. S. D. A. AIS 76, 8 p. Sept. 1948. 1 Ag84Ai

U. S. PRODUCTION AND MARKETING ADMIN. Consumer guides for buying and keeping eggs. U. S. D. A. AIS-77, 4 p. Oct. 1948. 1 Ag84Ai

Circulars

CUMMING, W. C., and RIGHTER, F. I. Methods used to control pollination of pines in the Sierra Nevada of California. U. S. D. A. C. 792, 18 p. Ref. Sept. 1948. 1 Ag84C

DEAN, J. D. Preserving cotton fabrics in outdoor use. U. S. D. A. C. 790, 17 p. Aug. 1948. 1 Ag84C

Supersedes Farmers' bulletin 1157: Waterproofing and mildewproofing of cotton duck, by H. P. Holman and T. D. Jarrell.

FLETCHER, H. M., and JONES, M. V. Dimensional changes in certain cotton, wool, and rayon woven fabrics during various cleaning and pressing processes. U. S. D. A. C. 793, 27 p. Ref. Nov. 1948. 1 Ag84C

LEBARRON, R. K. Silvicultural management of black spruce in Minnesota. U. S. D. A. C. 791, 60 p. Ref. Oct. 1948. 1 Ag84C

PICKFORD, G. D., and REID, E. H. Forage utilization on summer cattle ranges in eastern Oregon. U. S. D. A. C. 796, 27 p. Sept. 1948. 1 Ag84C

Farmers' Bulletins

DARROW, G. M., and WALDO, G. F. Strawberry culture, western United States. U. S. D. A. Farmers' B. 1027, rev., 26 p. Nov. 1948. 1 Ag84F

Leaflets

CAMPBELL, R. S., and CRAFTS, E. C. How to keep and increase black grama [*Bouteloua eriopoda*] on Southwestern ranges. U. S. D. A. Leaflet 180, slightly rev., 8 p. July 1948. 1 Ag84L

Miscellaneous Publications

ALLENDER, C. R. Potatoes for livestock feed. U. S. D. A. Misc. P. 676, 45 p. Ref. Oct. 1948. 1 Ag84M

REUSS, L. A., WOOTEN, H. H., and MARSCHNER, F. J. Inventory of major land uses in the United States. U. S. D. A. Misc. P. 663, 89 p. Ref. 1948. 1 Ag84M

U. S. BUR. OF ANIMAL INDUSTRY. The National Poultry Improvement Plan. U. S. D. A. Misc. P. 300, rev., 33 p. June 1948. 1 Ag84M

U. S. DEPT. OF AGRICULTURE. Slide-films. U. S. D. A. Misc. P. 655, 21 p. Nov. 1948. 1 Ag84M

U. S. DEPT. OF AGRICULTURE. OFF. OF THE SECRETARY. Irrigation agriculture in the West. U. S. D. A. Misc. P. 670, 39 p. Nov. 1948. 1 Ag84M

Program Aid

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Increasing the efficiency of the school lunch kitchen. U. S. D. A. PA-61, 21 p. Nov. 1948. 1 Ag84Pro

U. S. Production and Marketing Administration cooperating.

U. S. PRODUCTION AND MARKETING ADMIN. Planning and equipping school lunchrooms. U. S. D. A. PA-60, 19 p. July 1948. 1 Ag84Pro

Puerto Rico. Federal Experiment Station

PLANK, H. K. Life history, habits, and control of the coconut rhinoceros beetle [*Strategus quadri-foveatus*] in Puerto Rico. Puerto Rico. Fed. Expt. Sta. Mayaguez. B. 45, 35 p. Ref. Nov. 1948. 1 Ex65

Technical Bulletin

BROWING, G. M., and others. Investigation in erosion control and the reclamation of eroded land at the Missouri Valley Loess Conservation Experiment Station, Clarinda, Iowa, 1931-42. U. S. D. A. Tech. B. 959, 88 p. Ref. Oct. 1948. 1 Ag84Te

R. A. Norton, A. G. McCall, and F. G. Bell, joint authors.

CHRISTENSEN, R. P. Efficient use of food resources in the United States. U. S. D. A. Tech. B. 963, 98 p. Ref. Oct. 1948. 1 Ag84Te

DAWSON, J. R., and KOPLAND, D. V. A breeding experiment with Holstein cattle at the Huntley, Mont., Field Station. U. S. D. A. Tech. B. 965, 44 p. Nov. 1948. 1 Ag84Te

STRAND, E. G. Soybeans in American farming. U. S. D. A. Tech. B. 966, 66 p. Ref. Nov. 1948. 1 Ag84Te

SWETT, W. W., MATTHEWS, C. A., and FOHRMAN, M. H. Development of the fetus in the dairy cow. U. S. D. A. Tech. B. 964, 34 p. June 1948. 1 Ag84Te

TOOLE, E. H., TOOLE, V. K., and GORMAN, E. A. Vegetable-seed storage as affected by temperature and relative humidity. U. S. D. A. Tech. B. 972, 24 p. Oct. 1948. 1 Ag84Te

WINTER, E. P. Marketing margins and costs for poultry and eggs. U. S. D. A. Tech. B. 969, 70 p. Ref. Nov. 1948. 1 Ag84Te

AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

EDWARDS, P. W., and others. Producing feed and flour from white potatoes with steam tube driers. Bur. Agr. and Indus. Chem. AIC-209, 7 p. Nov. 1948. 1.932 A2Ag82

C. S. Redfield, A. Hoersch, Jr., and R. K. Eskew, joint authors.

FORT, C. A. Volumetric determination of small amounts of reducing sugars by a modified Lane-Eynon procedure. U. S. Bur. Agr. and Indus. Chem. AIC-207, 5 p. Oct. 1948. 1.932 A2Ag82

HANSEN, J. E., PALM, W. E., and DIETZ, T. J. Amine vulcanization of ethyl polyacrylate. U. S. Bur. Agr. and Indus. Chem. AIC-205, 6 p. Sept. 1948. 1.932 A2Ag82

U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. List of antioxidants proposed for the preservation of edible fats (with a selected bibliography of papers and patents). U. S. Bur. Agr. and Indus. Chem. AIC-54, 8 p. Oct. 28, 1948. 1.932 A2Ag82

U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. List of publications on cucumber pickling and salting of vegetables resulting from cooperative investigations at Raleigh, N. C., by the United States Department of Agriculture and North Carolina Agricultural Experiment Station, Sept. 1938-Jan. 1948. U. S. Bur. Agr. and Indus. Chem. AIC-183, 4 p. Mar. 1948. 1.932 A2Ag82



## AGRICULTURAL ECONOMICS, BUREAU OF

SIMMONS, D. F. Farm and family financial planning. Washington, U. S. Bur. Agr. Econ., 1948. 6 p. 1.941 R4F223

Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 12, 1948.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Apples; production by varieties, 1948, with comparisons. Washington, 1948. 9 p. 1.941 H8A5

U. S. BUR. OF AGRICULTURAL ECONOMICS. Consumption of fluid milk and cream in Northeastern marketing areas, by P. E. O'Donnell. Washington, 1948. 53 p. 1.941 M3C76

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm real estate activity in 17 Appalachian counties, 1947, by W. H. Scofield. Washington, 1948. 14 p. 1.941 L8F226

U. S. BUR. OF AGRICULTURAL ECONOMICS. Index numbers of livestock and poultry on farms and ranches January 1, 1867-1948 and animal units of livestock fed annually 1920-48. Washington, 1948. 9 p. 1.941 S8L759

U. S. BUR. OF AGRICULTURAL ECONOMICS. Minnesota agricultural statistics, 1946-1947. St. Paul, 1948? 46 p. 1 Ec7M

U. S. BUR. OF AGRICULTURAL ECONOMICS. Missouri lamb crop report, 1948. Columbia, 1948. 2 p. 1.941 S8L16

U. S. BUR. OF AGRICULTURAL ECONOMICS. Montana 1948 lamb crop report. Helena, 1948. 2 p. 1.941 S8L162

U. S. BUR. OF AGRICULTURAL ECONOMICS. Monthly sales of principal field crops, 1947 crop. Washington, 1948. 13 p. 1.942 G3M76

U. S. BUR. OF AGRICULTURAL ECONOMICS. 1948 annual summary, commercial truck crops for fresh market; acreage, production and value by seasonal groups and States, with comparisons. Washington, 1948. 48 p. 1.941 H8V525

U. S. BUR. OF AGRICULTURAL ECONOMICS. Outlook for hops from the Pacific Coast. Washington, 1948. 40 p. 1.941 S2H77

U. S. BUR. OF AGRICULTURAL ECONOMICS. Production of manufactured dairy products, 1947. Washington, 1948. 34 p. 1.9 Ec724D

U. S. BUR. OF AGRICULTURAL ECONOMICS. Season average prices and value of production, principal crops, 1946 and 1947, by States. Washington, 1947. 31 p. 1.941 F8Se1

WICKENS, A. J. Business and consumers' outlook for 1949. Washington, U. S. Bur. Agr. Econ., 1948. 9 p. 1.941 A2B96

Address at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 11, 1948.

## AGRICULTURAL RESEARCH ADMINISTRATION

BARNES, C. P. Soil classification helps fit crops and farming methods to individual farms. U. S. Agr. Res. Admin. Res. Achvt. Sheet 109, 2 p. Oct. 1948. 1.98 R31

BARTLETT, K. A. USDA-34, a sweet corn for the Tropics. U. S. Agr. Res. Admin. Res. Achvt. Sheet 114, 2 p. Nov. 1948. 1.98 R31

CLAYTON, E. E. Controls developed for blue mold of tobacco. U. S. Agr. Res. Admin. Res. Achvt. Sheet 107, 2 p. Oct. 1948. 1.98 R31

CLAYTON, E. E. New wilt-resistant tobacco variety worth \$2,000,000 annually. U. S. Agr. Res. Admin. Res. Achvt. Sheet 106, 2 p. Oct. 1948. 1.98 R31

CRAIGHEAD, F. C. Concentrated sprays advance forest insect control. U. S. Agr. Res. Admin. Res. Achvt. Sheet 111, 2 p. Oct. 1948. 1.98 R31

DAWSON, P. R. White starch made from sweetpotatoes by new process. U. S. Agr. Res. Admin. Res. Achvt. Sheet 110, 2 p. Oct. 1948. 1.98 R31

JENKINS, M. T. Hybrid seed produces 3/4 billion bushels more corn annually. U. S. Agr. Res. Admin. Res. Achvt. Sheet 108, 2 p. Oct. 1948. 1.98 R31

MCKEE, R. Alyceclover and hairy indigo boost Southern livestock farming. U. S. Agr. Res. Admin. Res. Achvt. Sheet 103, 2 p. Oct. 1948. 1.98 R31

MCKEE, R. Big-trefoil [*Lotus uliginosus*] proved valuable as forage crop for the West and South. U. S. Agr. Res. Admin. Res. Achvt. Sheet 101, 2 p. Oct. 1948. 1.98 R31

MCKEE, R. Crotalaria add superior summer soil-improving crops in the South. U. S. Agr. Res. Admin. Res. Achvt. Sheet 99, 2 p. Oct. 1948. 1.98 R31

MCKEE, R. Improved vetch varieties established commercially. U. S. Agr. Res. Admin. Res. Achvt. Sheet 100, 2 p. Oct. 1948. 1.98 R31

MCKEE, R. New varieties of lespedeza extend its use and increase production. U. S. Agr. Res. Admin. Res. Achvt. Sheet 102, 2 p. Oct. 1948. 1.98 R31

MCKEE, R. Sweet lupines offer an additional livestock feed crop to Southern farmers. U. S. Agr. Res. Admin. Res. Achvt. Sheet 104, 2 p. Oct. 1948. 1.98 R31

MCMURTREY, J. E. New method detects specific elements deficient in soils. U. S. Agr. Res. Admin. Res. Achvt. Sheet 105, 2 p. Oct. 1948. 1.98 R31

RIST, C. E. Batter process makes wheat flour source of starch and gluten. U. S. Res. Admin. Res. Achvt. Sheet 113, 2 p. Nov. 1948. 1.98 R31

SHERWOOD, S. F. Control of alligatorweed by 2,4-D aids sugarcane production. U. S. Agr. Res. Admin. Res. Achvt. Sheet 112, 2 p. Nov. 1948. 1.98 R31

## ANIMAL INDUSTRY, BUREAU OF

GODFREY, A. B. Selecting birds for U. S. R. O. P. matings. U. S. Bur. Anim. Indus. A. H. D. 104, rev., 4 p. Oct. 1948. 1.9 An52Ah

GODFREY, A. B. Three-day-a-week-trap-nesting. U. S. Bur. Anim. Indus. A. H. D. 121, 6 p. Oct. 1948. 1.9 An52Ah

U. S. BUR. OF ANIMAL INDUSTRY. Condensed statement on measures to keep the United States free of foot-and-mouth disease together with control and eradication operations in Mexico. Washington? 1948. 8 p. 1.972 A2C75

U. S. BUR. OF ANIMAL INDUSTRY. Directory of the Bureau of Animal Industry. Rev. Washington, 1948. 68 p. 1.917 A2D631

U. S. BUR. OF ANIMAL INDUSTRY. Directory of U.S.R.O.P. breeders qualifying for the U. S. Register of Merit breeding stage, 1946-1947. U. S. Bur. Anim. Indus. A. H. D. 122, 21 p. Oct. 1948. 1.9 An52Ah  
National Poultry Improvement Plan.

U. S. BUR. OF ANIMAL INDUSTRY. Enforcement of foot-and-mouth disease quarantine on the United States-Mexican border. Rev. Washington, 1948. 4 p. 1.972 A2En2

U. S. BUR. OF ANIMAL INDUSTRY. U. S. Foot-and-Mouth Disease Research Laboratory. Washington? 1948. 10 p. 1.972 A2Un33

## COMMODITY EXCHANGE AUTHORITY

U. S. COMMODITY EXCHANGE AUTHORITY. List of publications of the Commodity Exchange Authority. U. S. Commod. Exch. Authority CEA-107, rev., 6 p. Nov. 1, 1948. 1.9 C73C

U. S. COMMODITY EXCHANGE AUTHORITY. Report, 1947/48. Washington, 1948. 23 p. 1 C73Rea

## DAIRY INDUSTRY, BUREAU OF

HODGSON, R. E. The need and importance of agricultural research. U. S. Bur. Dairy Indus. BDIM-Inf-66, 5 p. Dec. 1948. 1.973 D4B34

Remarks at a meeting of the In-Service Trainees Group of the U. S. Department of Agriculture, Washington, Dec. 21, 1948.

U. S. BUR. OF DAIRY INDUSTRY. Experimental flow-diversion valve developed for use in BDI research laboratories. U. S. Bur. Dairy Indus. BDIM-Inf-65, 2 p. Nov. 1948. 1.973 D4B34

U. S. BUR. OF DAIRY INDUSTRY. List of publications available from the Bureau of Dairy Industry. U. S. Bur. Dairy Indus. BDIM-Inf-64, 4 p. Nov. 1948. 1.973 D4B34



- U. S. BUR. OF DAIRY INDUSTRY. Report, 1947/48. Washington, 1948. 23 p. 1 D14
- WILLIAMS, D. H. Making ice cream and sherbet in the home. U. S. Bur. Dairy Indus. BDIM-Inf-1, rev., 6 p. Nov. 1948. 1.973 D4B34

#### ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

- CHISHOLM, R. D., and MASON, A. C. Ethylene dibromide-chlordane dip for treating plant balls infested with various stages of the Japanese beetle [*Popillia japonica*]. U. S. Bur. Ent. and Plant Quar. E-757, 2 p. Oct. 1948. 1.9 En83
- FAULKNER, F. S., and DEONIER, C. C. Equipment for dispersing insecticides from aircraft. U. S. Bur. Ent. and Plant Quar. ET-262, 6 p. Oct. 1948. 1.9 En83Et
- GOODEN, E. L., and UPDIKE, R. L., JR. Storage tests on conditioned and wettable powders containing 90 percent of DDT. U. S. Bur. Ent. and Plant Quar. E-758, 3 p. Oct. 1948. 1.9 En83
- HENDERSON, C. F., and KEISER, I. Adhesives for dilute and concentrated cryolite sprays used in white-fringed beetle [*Graphognathus*] control operations. U. S. Bur. Ent. and Plant Quar. E-756, 12 p. Oct. 1948. 1.9 En83
- LINDQUIST, A. W., ROTH, A. R., and YATES, W. W. DDT as a prehatching treatment for control of snow-water mosquitoes [*Aedes* spp.]. U. S. Bur. Ent. and Plant Quar. E-760, 2 p. Oct. 1948. 1.9 En83
- U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Hawaiian fruit and vegetable quarantine. U. S. Bur. Ent. and Plant Quar. B. E. P. Q.-Q. 13, 7 p. May 20, 1948. 1 F31
- U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. The new insecticides for controlling external parasites of livestock. U. S. Bur. Ent. and Plant Quar. E-762, 16 p. Dec. 1948. 1.9 En83
- U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Kingdom of Belgium. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 437, rev., 13 p. Nov. 24, 1948. 1.9 F73
- U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Netherlands. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 574, 4 p. Nov. 24, 1948. 1.9 F73
- U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Philippine Islands. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 363, sup. 2, 1 p. Nov. 19, 1948. 1.9 F73
- U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Stem rust and the barberry (*Puccinia graminis* Pers.). U. S. D. A. Picture Sheet 23, 2 p. Oct. 1948. 1 En86P
- YOTHERS, M. A. A review of the literature on sprays to destroy overwintering codling moth [*Carpocapsa pomonella*] larvae. U. S. Bur. Ent. and Plant Quar. E-761, 9 p. Oct. 1948. 1.9 En83

#### EXPERIMENT STATION

- U. S. OFF. OF EXPERIMENT STATIONS. Report, 1947/48. Washington, 1948. 22 p. 1 Ex6A
- U. S. OFF. OF EXPERIMENT STATIONS. Research in foods, human nutrition, and home economics at the land-grant institutions; list of published and processed reports, by C. Justin and G. Adams. Washington? 1948. 32 p. 1.9 Ex6Ho
- U. S. OFF. OF EXPERIMENT STATIONS. Research projects classification index. Washington? 1948? 34 p. 1.912 R312

#### EXTENSION SERVICE

- FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Summary of FAO conference in Washington, D. C. Washington? U. S. Ext. Serv., 1948. 3 p. 1.913 F4F734
- U. S. EXTENSION SERV. Corn and grain sorghum summary for the crop year beginning October 1947. Chicago, 1948. 5 p. 1.913 A3C81
- U. S. Production and Marketing Administration cooperating.

- U. S. EXTENSION SERV. Extension projects in marketing under the Research and Marketing Act. Washington, 1948. 31 p. 1.913 A2Ex843

- U. S. EXTENSION SERV. Extension work in farm management and related fields, Central States, 1947, by L. M. Schruben. Washington, 1948. 24 p. 1.913 A2Ex837

- U. S. EXTENSION SERV. Extension work in farm management and related fields, Western United States, 1947. Washington, 1948. 30 p. 1.913 A2Ex852

- U. S. EXTENSION SERV. Narrative for use with special filmstrip entitled "First Regional 4-H Camp for Negro club members." Washington, 1948. 4 p. 1.913 F3N162

- U. S. EXTENSION SERV. National Home Demonstration Week, 1948; Western States. Washington, 1948. Oct. 1948. 12 p. 1.913 H2N215

- U. S. EXTENSION SERV. Plans, procedures, and progress of extension marketing work under the Research and Marketing Act, by H. M. Dixon. Washington, 1948. 4 p. 1.913 A2P695

- U. S. EXTENSION SERV. Report, administrative workshop, Baton Rouge, Louisiana, January 26-February 5, 1948. Baton Rouge, 1948. 224 p. 1.913 C3Ad6

- U. S. EXTENSION SERV. Roster of delegates, International Farm Youth Exchange Project, 1948. Washington, 1948. 1 p. 1.913 O2R73

- U. S. EXTENSION SERV. Some obstacles to extension program planning. Washington? 1948. 3 p. 1.913 A2So572

- U. S. EXTENSION SERV. Soybean and flax-seed summary. Chicago, 1948. 4 p. 1.913 A2So9

- U. S. Production and Marketing Administration cooperating.

- U. S. EXTENSION SERV. Summary of replies to the question: "To improve outlook work in my State, I would like to see these things done." Washington, 1948. 4 p. 1.913 A2Su626

- U. S. EXTENSION SERV. Summary of replies to the question: "The most effective techniques for outlook work that we have used in our State," submitted for use at the 26th annual Outlook Conference, October 11-15, 1948. Washington, 1948. 5 p. 1.913 C3Ou8Su

- U. S. EXTENSION SERV. What a research marketing man thinks a home economist can contribute, by W. B. Stout. Washington, 1948. 2 p. 1.913 H4W55

- U. S. EXTENSION SERV. What is going on under RMA that will produce useful source material for consumer education programs, by B. Joy. Oct. 1948. 7 p. 1.913 A2W55

- U. S. EXTENSION SERV. COMMITTEE TO STUDY WORKSHOP REPORTS. What the workshops say about extension program planning. Washington? 1948. 23 p. 1.913 S2W555

#### FEDERAL CROP INSURANCE CORPORATION

- U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 loss adjustment manual for multiple crops. Washington, 1948. 25 p. 1.952 L898

- Tentative.
- U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 corn. Washington? 1948. 12 p. 1.952 F112

- U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 Federal cotton crop insurance. Washington, 1948. 11 p. 1.952 Sa32

- U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 Federal flax crop insurance. Washington? 1948. 11 p. 1.952 F315

#### FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

- FITZGERALD, D. A. ECA [Economic Cooperation Administration] and the agricultural outlook. Washington, U. S. Bur. Agr. Econ., 1948. 5 p. 1.941 S2Ec7

- Remarks at Annual Agricultural Outlook Conference, Washington, D. C., Oct. 11, 1948.

- LEONARD, O. E. Santa Cruz: a socioeconomic study of an area in Bolivia. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 31, 74 p. Oct. 1948. 1.943 F763



NORRIS, P. K. Foreign outlets for American cotton. Washington, U. S. Off. Foreign Agr. Relat., 1948. 12 p. 1.943 N79  
Address before annual conference, Southern Economic Association, at Atlanta, Nov. 19, 1948.

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Declared exports of edible tree nuts to United States. Washington? 1948. 2 p. 1.943 D35

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. United States foreign trade in agricultural products, by commodity and by country, annual fiscal year 1946-47 and 1947-48. Washington, 1948. 70 p. 1.943 F76242

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. TECHNICAL COLLABORATION BR. Abstracts of some of the literature pertaining to coffee, by J. C. Crane and L. Greene. Washington, 1948. 133 p. 1.943 Ab8

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. TECHNICAL COLLABORATION BR. Some basic information regarding tannins and tannin-yielding crops, by S. B. Detwiler. Washington, 1948. 112 p. Ref. 1.943 So52

WYLIE, K. H. Production, consumption and price trends of coffee. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 33, 27 p. Dec. 1948. 1.943 F763

#### FOREST SERVICE

BLEAK, A. T. Heavy stocking—a handicap to range sheep production. U. S. Forest Serv. Intermountain Forest Range Expt. Sta. Res. Paper 17, 6 p. Dec. 1948. 1.9622 I2R31

BLEW, J. O., JR. Service tests on posts as a means of evaluating wood preservatives and methods of treatment. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1726, 10 p. Oct. 1948. 1.9 F761R

BROWNE, F. L. Moisture content of wood as related to finishing of furniture. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1722, 7 p. Oct. 1947. 1.9 F761R

DAVIS, E. M. Machining of madrone, California laurel, tanbark oak, and chinquapin. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1727, 5 p. Dec. 1947. 1.9 F761R

DOWNS, L. E. Bleaching wood. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1705, rev., 8 p. Oct. 1948. 1.9 F761R

HARTMAN, G. B., and KELLOGG, L. F. Preliminary report of yields of lumber by grades from Iowa timber. U. S. Forest Serv. Central States Forest Expt. Sta. Note 43, 2 p. May 1948. 1.9 F76252S

HRUBESKY, C. E. Comparison of several freeness testers on [insulation] board stock. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1719, 6 p. Feb. 1948. 1.9 F761R

KELLOGG, L. F. A volume table for black walnut trees in natural stands in Iowa. U. S. Forest Serv. Central States Forest Expt. Sta. Note 42, 1 p. Mar. 1948. 1.9 F76252S

KNAUSS, A. C., and SELBO, M. L. Laminating of structural wood products by gluing. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1635, rev., 83 p. Oct. 1948. 1.9 F761R

LISKA, J. A. Tests of cargo flooring N and P for aircraft. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1550-D, 6 p. Jan. 1948. 1.9 F761R

LISKA, J. A. Tests of cargo flooring R and S for aircraft. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1550-E, 7 p. June 1948. 1.9 F761R

LOUGHBOROUGH, W. K. Chemical seasoning: its effectiveness and present status. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1721, 13 p. Aug. 1948. 1.9 F761R

MCGOVERN, J. N., and KELLER, E. L. Some experiments in sodium sulfite pulping. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1728, 10 p. Aug. 1948. 1.9 F761R

MINCKLER, L. S. Planted black locust on claypan soils of southern Illinois. U. S. Forest Serv. Central States Forest Expt. Sta. Note 46, 2 p. June 1948. 1.9 F76252S

MINCKLER, L. S. Planted pines on claypan soils of southern Illinois. U. S. Forest Serv. Central States Forest Expt. Sta. Note 44, 2 p. June 9, 1948. 1.9 F76252S

MINCKLER, L. S. Shipmast vs. common black locust in southern Illinois. U. S. Forest Serv. Central States Forest Expt. Sta. Note 45, 1 p. June 1948. 1.9 F76252S

MYERS, E. C., and BIXBY, J. O. Moisture resistance of packages for dried-egg powder. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1725, 13 p. Oct. 1948. 1.9 F761R

NORRIS, C. B., and RINGELSTETTER, L. A. Buckling of stiffened, flat, plywood plates in compression; a single stiffener parallel to stress face grain of plywood at 45° to its edge. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1553-C, 9 p. Oct. 1948. 1.9 F761R

NORRIS, C. B., WERREN, F., and MCKINNON, P. F. The effect of veneer thickness and grain direction on the shear strength of plywood. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1801, 28 p. July 1948. 1.9 F761R

PANEK, E., and HEEBINK, B. G. Repair of aircraft sandwich constructions. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1584, 11 p. May 1948. 1.9 F761R

PECK, E. C. The sap or moisture in wood. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R768, rev., 4 p. July 1948. 1.9 F761R

ROE, A. L. A preliminary classification of tree vigor for western larch and Douglas-fir trees in western Montana. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 66, 6 p. Nov. 1948. 1.9622 N3R31

SANDS, W. M., and MALCOLM, F. B. Cut-stock possibilities in wood-consuming industries in Midwestern States. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1724, 29 p. Sept. 1948. 1.9 F761R

SELBO, M. L. Durability of resorcinol glue bonds in gusset-type assembly joints similar to those used in wood boats. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1714, 11 p. May 1948. 1.9 F761R

SELBO, M. L. Effect of mixing flat and vertical grain in laminated white oak beams. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R 1718, 4 p. June 1948. 1.9 F761R

SELBO, M. L. Effect of width and thickness of laminations in laminated white oak beams upon the strength and durability of the glue bond. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1713, 6 p. June 1948. 1.9 F761R

SIMMONS, F. C. Choosing methods and equipment for logging. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 18, 19 p. Aug. 1948. 1.9622 N2St22

TEESDALE, L. V., and DUNLAP, M. E. Insulation and ventilation prevent condensation in barns. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1720, 4 p. Apr. 1948. 1.9 F761R

TORGESON, O. W., and SMITH, H. H. Furnace-type lumber dry kiln. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1474, rev., 21 p. Sept. 1948. 1.9 F761R

TRUAX, T. R., and SELBO, M. L. Results of accelerated tests and long-term exposures on glue joints in laminated beams. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1729, 8 p. Oct. 1948. 1.9 F761R

U. S. FOREST SERV. National forest areas. Washington, 1948. 16 p. 1 F765

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Drying and conditioning glued joints. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D475, 4 p. Aug. 1948. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on wood preservation. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R704, 29 p. Oct. 1948. 1.9 F761R

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Supplement No. 2 to U. S. Department of Agriculture Miscellaneous Publication 185, "Guide to the Grading of Structural Timbers and the Determination of Working Stresses." Recommendations for basic stresses. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1715, 11 p. June 1948. 1.9 F761R

U. S. FOREST SERV. SOUTHERN FOREST EXPERIMENT STATION. Forest statistics for the Arkansas Ozarks. U. S. Forest Serv. South. Forest Expt. Sta. Forest Survey Release 57, 23 p. Sept. 1948. 1.9 F7624F



WERREN, F. Fatigue of sandwich constructions for aircraft; cellular-hard-rubber core material with aluminum or fiberglass-laminate facings, tested in shear. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1559-E, 7 p. Oct. 1948. 1.9 F761R

YOLTON, L. A. Development of a sandwich-type cargo floor for transport aircraft. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1550-C, 16 p. Oct. 1947. 1.9 F761R

YOLTON, L. A. Tests of cargo flooring M for aircraft. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1550-B, 7 p. Apr. 1947. 1.9 F761R

YOUNGQUIST, W. G., and MUNTHE, B. P. The effect of a change in testing speed and span on the flexural strength of insulating and structural fiberboards and a proposed new method of test. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1717, 13 p. June 1948. 1.9 F761R

#### GRADUATE SCHOOL

U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Report of the Director, 1948. Washington, 1948. 18 p. 1.9 Ag81Er

#### INFORMATION, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Let's talk turkey, by J. Chapman and J. Obert. Washington, 1948. 7 p. 1.914 R2T23  
A television program over WNBK, Cleveland, Nov. 13, 1948.

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Nutrition; a list of references to motion pictures. Washington, 1948. 13 p. 1.913 M3N95

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. USDA meat grading service, by H. E. Reed, W. Adams, K. Nawn, and others. Washington, 1948. 5 p. 1.914 R2R11

#### PERSONNEL, OFFICE OF

REID, T. R. Needs and opportunities for personnel in marketing. Washington, U. S. D. A., Off. of Personnel, 1948. 6 p. 1.917 A2R27  
Address, Division meeting, Land Grant College Association, Nov. 9, 1948. Washington, D. C.

U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Statutes affecting personnel administration in the United States Department of Agriculture. Washington, 1948. 28 p. 1.917 A2St23

#### PLANT AND OPERATIONS, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF PLANT AND OPERATIONS. Report, 1947/48. Washington, 1948. 12 p. 1 Op2

#### PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

HARVEY, E. M., ATROPS, E. P., and HRUSCHKA, H. W. Transportation test with lemons from southern California to New York, August 1948. U. S. Bur. Plant Indus., Soils and Agr. Engin. H. T. & S. Off. Rpt. 195, 40 p. Sept. 17, 1948. 1.9 P772Ht

SALTER, R. M. Soil management for corn production. Washington, U. S. Bur. Plant Indus., Soils, and Agr. Engin., 1948. 12 p. 1.965 A2Sa3

Address before the Hybrid Seed Division of the American Seed Trade Association, Chicago, Dec. 2, 1948.

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Car heaters and winter protection of fruit shipments; summary of transportation tests with apples from Washington State, December 1947, January and February 1948, by W. H. Redit and E. Smith. Beltsville, Md., 1948. 24 p. 1.965 F4C17

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Mechanical and chemical control of range brush and weeds, by D. A. Savage, J. R. Harlan, A. L. Brown, and E. H. McIlvain. Washington? 1948. 5 p. 1.965 F2M46

#### PRODUCTION AND MARKETING ADMINISTRATION

PRICHARD, G. L. The flaxseed outlook for 1949. Washington, U. S. Prod. and Mktg. Admin., 1948. 8 p. 1.956 F26P93

Talk before the annual meeting of the Flax Institute, Minneapolis, Nov. 5, 1948.

REED, H. E. Changes in our livestock economy. Washington, U. S. Prod. and Mktg. Admin., 1948. 6 p. 1.9422 L2R25

Address before meeting of the California Cattlemen's Association, San Jose, Dec. 3, 1948.

THOMSEN, F. L. New developments in vegetable marketing. Washington, U. S. Prod. and Mktg. Admin., 1948. 7 p. 1.941 M1T38

Talk before the National Convention of Vegetable Growers Association of America, on Aug. 9, 1948, at Baltimore.

U. S. PRODUCTION AND MARKETING ADMIN. Commodity Credit Corporation; charts providing a graphic summary of operations, 1933-June 30, 1948. Washington? 1948. 31 p. 1.957 C38

U. S. PRODUCTION AND MARKETING ADMIN. Interpretations of the regulations for the enforcement of the Federal Insecticide, Fungicide, and Rodenticide Act. U. S. Prod. and Mktg. Admin. Serv. and Regulat. Announc. 167, 52 p. Aug. 1948. 1 M34S

U. S. PRODUCTION AND MARKETING ADMIN. Questions for written examination for egg graders. Washington, 1948. 3 p. 1.956 A2Q33

#### RURAL ELECTRIFICATION ADMINISTRATION

U. S. RURAL ELECTRIFICATION ADMIN. 1947 annual statistical report. Washington, 1948? 118 p. 1.933 F49

WICKARD, C. R. Electric service for rural North Dakota. Washington, U. S. Rural Electrification Admin., 1948. 7 p. 1.91 A2W63

Address at Fargo, Nov. 17, 1948, before meeting of the North Dakota Farm Bureau.

#### SECRETARY, OFFICE OF

BRANNAN, C. F. Agricultural education for democracy. Washington, U. S. D. A., 1948. 14 p. 1.91 A2B73

Talk at session of the Division of Agriculture, Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 9, 1948.

BRANNAN, C. F. The agricultural pendulum. Washington, U. S. D. A., 1948. 1.91 A2B73

Talk before National Grange 82nd Convention, Portland, Maine, Nov. 13, 1948.

BRANNAN, C. F. Better living. Washington, U. S. D. A., 1948. 13 p. 1.91 A2B73

Talk at Alabama Farmers Union Meeting, Centre, Ala., Dec. 3, 1948.

BRANNAN, C. F. Public service unlimited. Washington, U. S. D. A., 1948. 9 p. 1.91 A2B73

Talk before Chi Psi Omega Fraternity banquet, Washington, D. C., Nov. 5, 1948.

LOVELAND, A. J. [Abundant agricultural production.] Washington, U. S. Prod. and Mktg. Admin., 1948. 3 p. 1.91 A2L94

Excerpts from address at Production and Marketing Administration National Conference, St. Louis, Dec. 8, 1948.

#### SOIL CONSERVATION SERVICE

ALLIS, J. A. Rates of runoff for the design of conservation structures in the Central Great Plains of Nebraska and Kansas. U. S. Soil Conserv. Serv. SCS-TP-69, 30 p. Aug. 1948. 1.96 Ad6Tp

BENNETT, H. H. Practical conservation in action. Washington, U. S. Soil Conserv. Serv., 1948. 10 p. 1.96 Ad62

Address at annual banquet, New York State Conservation Council, Schenectady, Dec. 3, 1948.

BENNETT, H. H. Soil conservation. Washington, U. S. Soil Conserv. Serv., 1948. 13 p. 1.96 Ad62

Address, Grasses and Legumes Club of Harrison and adjoining counties, Bethany, Mo., Dec. 13, 1948.



BENNETT, H. H. Soil conservation and peace among men. Washington, U. S. Soil Conserv. Serv., 1948. 11 p. 1.96 Ad62

BRUNE, G. M. Rates of sediment production in midwestern United States. U. S. Soil Conserv. SCS-TP-65, 40 p. Aug. 1948. 1.96 Ad6Tp

HILL, H. O. Erosion with strip cropping and terracing in the Texas Blacklands. U. S. Soil Conserv. Serv. SCS-TP-72, 16 p. Nov. 1948. 1.96 Ad6Tp

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Cherokee County, Kansas. Manhattan, 1948. 22 p. 1.96 L22Phck

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Cloud County, Kansas. Manhattan, 1948. 25 p. 1.96 L22Phcl

U. S. SOIL CONSERVATION SERV. Physical land conditions affecting use, conservation, and management of land resources, Crawford County, Kansas. Manhattan, 1948. 20 p. 1.96 L22Phcr

U. S. SOIL CONSERVATION SERV. Production, income & expenses, sandy soils, central Wisconsin. Progress report. La Crosse, 1948. 7 p. 1.9605 P9432

U. S. SOIL CONSERVATION SERV. Suggestions and training outline for foreign technicians studying soil conservation with the United States Soil Conservation Service. I. Rev. Washington, 1948. 13 p. 1.9604 Su3

U. S. SOIL CONSERVATION SERV. Summary of snow survey data in Columbia Basin within the States of Idaho, Washington, Montana, Nevada, Wyoming and British Columbia, including all past measurements. n. p., 1947. 118 p. 1.96 R31Sch

U. S. SOIL CONSERVATION SERV. DIV. OF IRRIGATION. Federal-State cooperative snow surveys; summary of snow surveys in Arizona, 1938-1948, by C. Houston. Reno, Nev., 1948. 18 p. 1.96 R31Fs2

U. S. SOIL CONSERVATION SERV. DIV. OF IRRIGATION. Federal-State cooperative snow surveys; summary of snow surveys in Nevada, 1910-1948, by C. Houston and G. Ghiglieri. Reno, 1948. 88 p. 1.96 R31Fsne

U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Missouri River watershed, interim survey report; Osage River watershed, Missouri and Kansas; program for runoff and waterflow retardation and soil erosion prevention. Milwaukee? 1948. 115 p. 1.9605 M69

#### SOLICITOR, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. Compilation of corporate charter by-laws and of laws, Executive Orders, and regulations applicable to Commodity Credit Corporation. Washington, 1949. 164 p. 1.918 C73

U. S. DEPT. OF AGRICULTURE. OFF. OF THE SOLICITOR. Report, 1947/48. Washington, 1948. 30 p. 1 Ag84; also 1 So45R



STATE AGRICULTURAL EXPERIMENT STATION  
PUBLICATIONS

March 1949

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona Agricultural Experiment Station, Tucson

HAWKINS, R. S., and THOMAS, W. I. The effect of moisture content, field exposure, and processing on the spinning value of Arizona upland cotton. *Ariz. Agr. Expt. Sta. Tech. B.* 115, p. 249-292. Ref. June 1948. 100 Ar4

California Agricultural Experiment Station, Berkeley

HUGHES, E. H., and HEITMAN, H., JR. Swine feeding experiments. *Calif. Agr. Expt. Sta. B.* 709, 18 p. Oct. 1948. 100 C12S

CRUESS, W. V. Investigations of the flor sherry process. *Calif. Agr. Expt. Sta. B.* 710, 40. Ref. Oct. 1948. 100 C12S

TAVERNETTI, J. R. Construction of farm refrigerators & freezers. *Calif. Agr. Expt. Sta. C.* 387, 19 p. Sept. 1948. 100 C12S

VEIHMEYER, F. J. Sprinkling for irrigation. *Calif. Agr. Expt. Sta. C.* 388, 19 p. Nov. 1948. 100 C12S

CALIFORNIA AGRICULTURAL EXPERIMENT STATION. Agricultural publications [California University, College of Agriculture]. Berkeley, 1948. 34 p. 100 C12Li

Colorado Agricultural Experiment Station, Fort Collins

PARSHALL, M. Summary of meteorological data at Colorado Agricultural Experiment Station, Fort Collins, Colorado, from 1887 to 1947. *Colo. Agr. Expt. Sta. B.* 402-A, 22 p. June 1948. 100 C71S

Massachusetts Agricultural Experiment Station, Amherst

STAPLETON, H. N. Meteorological observations for September 1948. *Mass. Agr. Expt. Sta. Met. Ser. B.* 717, 4 p. Sept. 1948. 100 M38H

Michigan Agricultural Experiment Station, East Lansing

QUARTERLY bulletin 31: 139-261. Nov. 1948. 100 M58S

Mississippi Agricultural Experiment Station, State College

FARISH, L. R. Tomato cultural studies. *Miss. Agr. Expt. Sta. Serv. Sheet* 410, 1 p. May 1948. 100 M69

Missouri Agricultural Experiment Station, Columbia

TRENTIN, J. J., and TURNER, C. W. Oral effectiveness of the dimethyl ether of diethylstilbestrol and of various steroid hormones on the mammary glands of mice and rabbits. *Mo. Agr. Expt. Sta. Res. B.* 411, 33 p. Ref. Mar. 1948. 100 M693

BRODY, S., and others. Growth and development with special reference to domestic animals. LXIII. Heat production and cardiorespiratory activities during gestation and lactation in Jersey Cattle. *Mo. Agr. Expt. Res. B.* 412, 22 p. Mar. 1948. 100 M693

D. M. Worstell, A. C. Ragsdale, and H. H. Kibler, joint authors.

LIONBERGER, H. F. Low-income farmers in Missouri: situation and characteristics of 459 farm operators in four Social Area B counties. *Mo. Agr. Expt. Sta. Res. B.* 413, 32 p. Apr. 1948. 100 M693

LIVELY, C. E., and GREGORY, C. L. Rural social areas in Missouri as determined by statistical analysis of county data, 1940. *Mo. Agr. Expt. Sta. Res. B.* 414, 25 p. Apr. 1948. 100 M693

MEITES, J., and TURNER, C. W. Studies concerning the induction and maintenance of lactation. I. The mechanism controlling the initiation of lactation at parturition. *Mo. Agr. Expt. Sta. Res. B.* 415, 65 p. Ref. May 1948. 100 M693

MEITES, J., and TURNER, C. W. Studies concerning the induction and maintenance of lactation. II. The normal maintenance and experimental inhibition and augmentation of lactation. *Mo. Agr. Expt. Sta. Res. B.* 416, 36 p. Ref. May 1948. 100 M693

HURST, V., and TURNER, C. W. The thyroid secretion rate in the mouse and its relation to various physiological processes. *Mo. Agr. Expt. Sta. Res. B.* 417, 62 p. Ref. May 1948. 100 M693

TRENTIN, J. J., and TURNER, C. W. The experimental development of the mammary gland with special reference to the interaction of the pituitary ovarian hormones. *Mo. Agr. Expt. Sta. Res. B.* 418, 48 p. Ref. May 1948. 100 M693

PLATNER, W. S., KIBLER, H. H., and BRODY, S. Growth and development with special reference to domestic animals. LXIII. Electrocardiograms of mules, horses, cattle, sheep, swine and goats. *Mo. Agr. Expt. Sta. Res. B.* 419, 12 p. Ref. July 1948. 100 M693

New York (Cornell) Agricultural Experiment Station, Ithaca

ANDERSON, W. A. Bibliography of the Department of Rural Sociology, Cornell University. N. Y. (Cornell) Agr. Expt. Sta. Mimeog. B. 20, 35 p. Oct. 1948. 100 N48Cm

North Dakota Agricultural Experiment Station, State College Station, Fargo

BIMONTHLY bulletin 11: 23 p. Sept./Oct. 1948. 100 N813B

Oklahoma Agricultural Experiment Station, Stillwater

HELLER, V. G., and CROSS, F. B. The chemical content and nutritive value of Oklahoma pecans. *Okla. Agr. Expt. Sta. Mimeog. C.* M-176, 5 p. Dec. 1948. 100 Ok4M

BROOKS, J. S., CHESSMORE, R., and PASS, H. Performance tests of corn varieties and hybrids, 1948. *Okla. Agr. Expt. Sta. Mimeog. C.* M-177, 38 p. Dec. 1948. 100 Ok4M

Oregon Agricultural Experiment Station, Corvallis

FISCHER, C. M., and DELOACH, D. B. Consumer response to the marketing of cut-up turkey. *Oreg. Agr. Expt. Sta. B.* 457, 32 p. Aug. 1948. 100 Or3

KUHLMAN, G. W., and MUMFORD, D. C. Cost of producing boysenberries (for processing) in the Willamette Valley, Oregon; a progress report. *Oreg. Agr. Expt. Sta. C. Inform.* 437, 7 p. Nov. 1948. 100 Or3C

WILSTER, G. H. A compendium of discussions relating to dairy technology and dairy manufacturing. *Oreg. Agr. Expt. Sta. C. Inform.* 439, 253 p. Ref. Nov. 1948. 100 Or3C

Pennsylvania Agricultural Experiment Station, State College

MILLER, L. F., and HERRMANN, R. Costs in keeping a bull compared with artificial breeding. *Pa. Agr. Expt. Sta. B.* 499, 6 p. May 1948. 100 P381

MILLER, H. J., FREAR, D. E. H., and FAGAN, F. N. Orchard sprayer performance; speed sprayer and mast sprayer compared with conventional hand spray guns. *Pa. Agr. Expt. Sta. B.* 503, 9 p. July 1948. 100 P381



Rhode Island Agricultural Experiment Station, Kingston

TUCKER, R. E. Acceptability and ascorbic acid content of frozen Rhode Island vegetables. R. I. Agr. Expt. Sta. B. 302, 24 p. Ref. Aug. 1948. 100 R34S

South Dakota Agricultural Experiment Station, Brookings

WILSON, J. W., JOHNSON, L. E., and WRIGHT, T. Feeds for wintering bred ewes in South Dakota. S. Dak. Agr. Expt. Sta. B. 388, 8 p. Apr. 1948. 100 So82

HOGlund, C. R., and ANDERSON, A. W. Father-son farming plans. S. Dak. Agr. Expt. Sta. B. 390, 16 p. June 1948. 100 So82

SCHOCK, A. A., and BREAZEAL, D. F. Cultured buttermilk from non-fat dry milk solids. S. Dak. Agr. Expt. Sta. B. 391, 31 p. Ref. June 1948. 100 So82

Texas Agricultural Experiment Station, College Station

FUDGE, J. F., and OGIER, T. L. Commercial fertilizers in 1947-48. Tex. Agr. Expt. Sta. B. 705, 48 p. Sept. 1948. 100 T31S

SCHRUM, J. M., and RIGGS, J. K. Protein supplements containing urea in steer fattening rations. Tex. Agr. Expt. Sta. Prog. Rpt. 1136, 2 p. Nov. 12, 1948. 100 T31P

SMITH, H. P. Atmospheric corrosion tests on wire. Tex. Agr. Expt. Sta. Prog. Rpt. 1137, 2 p. Nov. 22, 1948. 100 T31P

SORENSEN, J. W., JR., DAVIS, W. C., and HOLLINGSWORTH, J. P. Drying rice in sacks. Tex. Agr. Expt. Sta. Prog. Rpt. 1138, 4 p. Nov. 22, 1948. 100 T31P

MORRIS, J. S., and GODFREY, G. H. A new method for ripening dates. Tex. Agr. Expt. Sta. Prog. Rpt. 1139, 3 p. Nov. 27, 1948. 100 T31P

TEXAS. AGRICULTURAL EXPERIMENT STATION. Summary of the 1948 Texas corn performance tests. Tex. Agr. Expt. Sta. Prog. Rpt. 1140, 10 p. Nov. 29, 1948. 100 T31P

MANNING, C. W., and CAIN, S. H. Williamson County cotton variety tests, 1946-48. Tex. Agr. Expt. Sta. Prog. Rpt. 1141, 2 p. Dec. 1, 1948. 100 T31P

Utah Agricultural Experiment Station, Logan

MORRISON, E. M. Cost and efficiency of canning pea production in Cache and Box Elder Counties, Utah, 1946-1947. Utah. Agr. Expt. Sta. B. 331, 19 p. June 1948. 100 Ut1

KNOWLTON, G. F. Nitidulid beetle pests of sweet corn. Utah. Agr. Expt. Sta. Mimeog. Ser. 346, 1 p. Aug. 1948. 100 Ut1Mi

FARM and home science 9(4), 20 p. Dec. 1948. 100 Ut1F

Washington Agricultural Experiment Station, Pullman

STIPPLER, H. H., BUCHANAN, M. T., and LAW, A. G. Methods of harvesting hay fields and pastures in northwestern Washington (North Coast area), 1945. Wash. Agr. Expt. Sta. B. 502, 76 p. Apr. 1948. 100 W27E

WARWICK, E. J. Genetics and animal breeding. Wash. Agr. Expt. Sta. Pop. B. 189, 58 p. Feb. 1948. 100 W27E



STATE AGRICULTURAL EXTENSION SERVICE  
PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Colorado State College of Agriculture, Extension Service, Fort Collins

COLORADO. AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION SERV. List of publications for free distribution. Fort Collins, 1948. 6 p. 275.29 C71L

Connecticut University, College of Agriculture, Agricultural Extension Service, Storrs

CONNECTICUT. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The farmer's 1948 income tax. Conn. Agr. Col. Ext. B. 410, 16 p. Oct. 1948. 275.29 C76B

Delaware University, School of Agriculture, Extension Service, Newark

DELAWARE. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Hooked rugs for Delaware homemakers, by A. M. Hoffman. Newark, 1948. 9 p. 275.2 D37Hr

Hawaii University, Agricultural Extension Service, Honolulu

BURTON, R. E., and LAW, H. E. An average FHA [Farmers Home Administration] diversified farm in Hawaii. Hawaii. U. Agr. Ext. Agr. C. 256, 4 p. Oct. 1948. 275.29 H312Ac

Illinois University, College of Agriculture, Extension Service, Urbana

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Rural youth questionnaire. Urbana, 1948. 3 p. 275.2 IL62Ry

Iowa State College of Agriculture, Agricultural Extension Service, Ames

IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Buttonholes. Ames, 1948. 4 p. 275.2 Io92But

IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Necklines. Ames, 1948. 4 p. 275.2 Io92Ne

IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Plackets. Ames, 1948. 4 p. 275.2 Io92Pk

IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Pockets. Ames, 1948. 4 p. 275.2 Io92Poc

Kansas State College of Agriculture and Applied Science, Extension Service, Manhattan

KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. Planning the program, Kansas 4-H Clubs. Manhattan? 1947. 16 p. 275.2 K133PLa

KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. Tomato diseases, their control in Kansas, by C. L. King and O. H. Elmer. Manhattan, 1947. 4 p. 275.2 K133To

Massachusetts State College, Extension Service, Amherst

MASSACHUSETTS. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Radiant heating. Mass. U. Agr. Ext. Engin. Ext. Ser. 128, 3 p. July 1948. 275.29 M381En

MASSACHUSETTS. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Chest type freezers. Mass. U. Agr. Ext. Engin. Ext. Ser. 129, 1 p. Oct. 1948. 275.29 M381En

MASSACHUSETTS. UNIVERSITY. SCHOOL OF AGRICULTURE. EXTENSION SERV. Apple spray schedule for home orchard. Mass. U. Agr. Ext. Leaflet 100D, rev., 4 p. Mar. 1948. 275.29 M381L

New Hampshire University, College of Agriculture and the Mechanic Arts, Extension Service, Durham

BARRACLOUGH, K. E. The management of farm woodlands in New Hampshire. N. H. Agr. Col. Ext. B. 88, 67 p. Ref. June 1948. 275.29 N45

New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

GUTHRIE, E. S. Starter for butter, cheese, cultured cream, and cultured buttermilk. N. Y. Agr. Col. Cornell Ext. B. 179, rev., 12 p. Oct. 1948. 275.29 N48E

HAUCK, H. M. How to control your weight. N. Y. Agr. Col. Cornell Ext. B. 329, rev., 16 p. Dec. 1948. 275.29 N48E

HARDENBURG, E. V., and PRATT, A. J. Grading potatoes. N. Y. Agr. Col. Cornell Ext. B. 757, 4 p. Nov. 1948. 275.29 N48Ex

North Carolina University, State College of Agriculture and Engineering, Extension Service, State College Station, Raleigh

COLLINS, E. R., NELSON, W. L., and HARTWIG, E. E. Profitable soybean yields. N. C. Agr. Col. Ext. C. 295, rev., 4 p. Sept. 1948. 275.29 N811

CONNER, J. T., JR. Control stored grain insects. N. C. Agr. Col. Ext. C. 325, 4 p. Sept. 1948. 275.29 N811

NISWONGER, H. R. Budding and grafting fruit trees. N. C. Agr. Col. Ext. C. 326, 11 p. Oct. 1948. 275.29 N811

PARRISH, C. F., MAUPIN, C. J., and DEARSTYNE, R. S. Equipment for poultry. N. C. Agr. Col. Ext. C. 327, 15 p. Oct. 1948. 275.29 N811

Ohio State University, College of Agriculture, Agricultural Extension Service, Columbus

OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Every motion counts. Ohio. Agr. Col. Ext. B. 301, 4 p. Sept. 1948. 275.29 Oh32

Oklahoma Agricultural and Mechanical College, Extension Division, Stillwater

BECK, W. J. Oklahoma 4-H sheep club manual. Okla. Agr. Col. Ext. C. 468, 20 p. 1948? 275.29 Ok41C

WHITEHEAD, E. L. An Oklahoma garden planning guide. Okla. Agr. Col. Ext. C. 487, 4 p. 1948? 275.29 Ok41C

STINNETT, L. H. Artificial breeding of dairy cattle in Oklahoma. Okla. Agr. Col. Ext. C. 491, 14 p. 1948? 275.29 Ok41C

ROBINSON, C. B. Color in the home. Okla. Agr. Col. Ext. C. 493, 31 p. 1948? 275.29 Ok41C

Oregon State College, Federal Cooperative Extension Service, Corvallis

BOUQUET, A. G. B. Greenhouse vegetables—tomatoes. Oreg. State Col. Ext. C. 525, 6 p. Nov. 1948. 275.29 Or32C

Revision of Circular 308.



Puerto Rico University, College of Agriculture, Extension Service, Rio Piedras

GAZTAMBIDE, J. B. Semilleros de arboles forestales. Puerto Rico. Agr. Col. Ext. C. Inform. 51, rev., 3 p. July 1948. 275.29 P96C

JOGLAR RODRIGUEZ, F. Semilleros permanentes de tabaco. Puerto Rico. Agr. Col. Ext. C. Inform. 52, rev., 4 p. July 1948. 275.29 P96C

GAZTAMBIDE, J. B. El bambú y su utilidad en la finca. Puerto Rico. Agr. Col. Ext. C. Inform. 60, rev., 3 p. July 1948. 275.29 P96C

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Qué es una cooperativa de crédito. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 19, rev., 9 p. May 1948. 275.29 P962

BUDET DOMINGUEZ, A. La crianza de patos en la finca. Puerto Rico. Agr. Col. Ext. Spec. C. 7, rev., 8 p. July 1948. 275.29 P96Ce

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Cómo preparar la hoja de sabután, by P. Laguna. Rio Piedras, 1948. 8 p. 275.2 P96Cp

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Información sobre colores, by A. M. Rivera. Rio piedras? 1948. 7 p. 275.2 P96Inf

PUERTO RICO. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Trabajos en coco y carey, by P. Laguna. Rev. Rio Piedras, 1948. 4 p. 275.2 P96Tr

Texas Agricultural and Mechanical College, Agricultural Extension Service, College Station

TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Thirty years of pioneering in soil conservation work by the Texas Extension Service, 1903 to 1933. College Station, 1948. 32 p. 275.2 T31Th

Washington State College, Extension Service, Pullman

HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 125, 6 p.-folder. Sept. 28, 1948. 275.29 W27C

West Virginia University, College of Agriculture, Agricultural Extension Service, Morgantown

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Get your garden going. W. Va. Agr. Col. Ext. Gard. 1, 6 p.-folder. Feb. 1948. 275.28 G16

WEST VIRGINIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Make your garden grow. W. Va. Agr. Col. Ext. Gard. 2, 6 p.-folder. Apr. 1948. 275.28 G16

Wyoming University, College of Agriculture, Agricultural Extension Service, Laramie

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The dairy calf and yearling heifer; 4-H Club manual. Wyo. Agr. Col. Ext. C. 101, 39 p. May 1948. 275.29 W99C

FELLHAUER, T., and DAHLQUIST, N. Raising your 4-H orphan lamb. Wyo. Agr. Col. Ext. C. 102, 17 p. June 1948. 275.29 W99C







[illegible]



	ITEM		ITEM		ITEM		ITEM
BEHGEZINA V M	20476	BLIN H	17185	BOUCHER MRS D W	18214	BROWN B A	17057
BEHMER	20444	BLIN H	17417	BOUCHER M V	18335	BROWN F S	20701
BEHMOV S	17415	BLIN H	17438	BOUCKAERT G	20926	BROWN H C	17364
BEKIO E	20777	BLIN H	17439	BOUHELLEM R	17672	BROWN J J	18075
BEKIO E	20778	BLIN H	17666	BOULD C	17956	BROWN L H	21102
BERLAND L	20752	BLIN H	17667	BOUILLOT L	22924	BROWN L H	19915
BERLINER E	23145	BLIN H	17668	BOULD C	18184	BROWN P H	17674
BERMAN P B	19402	BLIN H	17669	BOULTER E L	18235	BROWN T T	21154
BERNARD P	17951	BLIN H	17670	BOUQUET A G S	17879	BROWN W A	19380
BERNARD P	17952	BLIN H	17671	BOUQUET A G S	21035	BROWN W A	22504
BERNARD P	17953	BLIN H	19055	BOUQUET A G S	21688	BROWN W A	20047
BERNARD P	18831	BLIN H	20083	BOUQUET A G S	19062	BROWN W A	18689
BERNARD P	20477	BLIN H	20123	BOUQUET A G S	22072	BROWN W A	18574
BERNARD P	20922	BLIN H	20154	BOUQUET A G S	22073	BROWNFIELD A D	19066
BERNARD P	20923	BLIN H	20169	BOUQUET A G S	22383	BROWNFIELD G M	21071
BERNARD P	20924	BLIN H	20169	BOUQUET A G S	22782	BRUCE D	18420
BERNARD P	18671	BLIN H	20170	BOUQUET A G S	22153	BRUCE H W	19630
BERNARD P	19643	BLIN H	20270	BOUQUET A G S	17879	BRUCE W G	20580
BERNARD P	22420	BLIN H	22608	BOUQUET A G S	20194	BRUCE W H	19916
BERNARD P	21366	BLIN H	16608	BOUQUET A G S	19478	BRUEER	23193
BERNARD P	18073	BLIN H	22271	BOUQUET A G S	17325	BRUGGEMANN H	18794
BERNARD P	17235	BLIN H	20271	BOUQUET A G S	19337	BRUGGEMANN H	21036
BERNARD P	20923	BLIN H	20272	BOUQUET A G S	18731	BRUGGEMANN H	21071
BERNARD P	23036	BLIN H	20925	BOUQUET A G S	16610	BRUGGEMANN L	18122
BERNARD P	18903	BLIN H	17434	BOUQUET A G S	23118	BRUGGEMANN L	17444
BERNARD P	20779	BLIN H	17308	BOUQUET A G S	17957	BRUNAUD M	18996
BERNARD P	16607	BLIN H	17309	BOUQUET A G S	19228	BRUNE F	17959
BERNARD P	19021	BLIN H	19403	BOUQUET A G S	18513	BRUNE G W	18136
BERNARD P	16761	BLIN H	18358	BOUQUET A G S	16703	BRUNNEMANN F C	17960
BERNARD P	23302	BLIN H	19809	BOUQUET A G S	19338	BRUNNEMANN F C	21037
BERNARD P	18189	BLIN H	19810	BOUQUET A G S	21549	BRUNNEMANN F C	21037
BERNARD P	19726	BLIN H	18620	BOUQUET A G S	22424	BRUNNEMANN F C	21642
BERNARD P	17183	BLIN H	20579	BOUQUET A G S	19063	BRUNNEMANN F C	17365
BETTER HOMES AND GARD	17183	BLIN H	19832	BOUQUET A G S	16378	BRUNNEMANN F C	21551
BETTER HOMES AND GARD	17183	BLIN H	16344	BOUQUET A G S	17958	BRUNNEMANN F C	22006
BETTER HOMES AND GARD	17183	BLIN H	22447	BOUQUET A G S	20625	BRUNNEMANN F C	18215
BETTER HOMES AND GARD	17183	BLIN H	23307	BOUQUET A G S	19174	BRUNNEMANN F C	22675
BETTER HOMES AND GARD	17183	BLIN H	16582	BOUQUET A G S	20436	BRUNNEMANN F C	16541
BETTER HOMES AND GARD	17183	BLIN H	17955	BOUQUET A G S	21453	BUCCI F	21456
BETTER HOMES AND GARD	17183	BLIN H	17440	BOUQUET A G S	20124	BUCHANAN M A	18622
BETTER HOMES AND GARD	17183	BLIN H	19404	BOUQUET A G S	17361	BUCHANAN M T	17130
BETTER HOMES AND GARD	17183	BLIN H	17441	BOUQUET A G S	22425	BUCHANAN W J	20629
BETTER HOMES AND GARD	17183	BLIN H	17442	BOUQUET A G S	18836	BUCHHOLTZ W F	16704
BETTER HOMES AND GARD	17183	BLIN H	17635	BOUQUET A G S	21294	BUCHHOLTZ E	18237
BETTER HOMES AND GARD	17183	BLIN H	23177	BOUQUET A G S	22694	BUCHHOLTZ E	18405
BETTER HOMES AND GARD	17183	BLIN H	20724	BOUQUET A G S	22801	BUCHHOLTZ E	20481
BETTER HOMES AND GARD	17183	BLIN H	21367	BOUQUET A G S	22913	BUCHHOLTZ E	23309
BETTER HOMES AND GARD	17183	BLIN H	22146	BOUQUET A G S	23192	BUCHHOLTZ E	19495
BETTER HOMES AND GARD	17183	BLIN H	17237	BOUQUET A G S	23502	BUCHHOLTZ E	16507
BETTER HOMES AND GARD	17183	BLIN H	17304	BOUQUET A G S	17186	BUCHHOLTZ E	16542
BETTER HOMES AND GARD	17183	BLIN H	20170	BOUQUET A G S	18837	BUCHHOLTZ E	19646
BETTER HOMES AND GARD	17183	BLIN H	18834	BOUQUET A G S	18793	BUCHHOLTZ E	19236
BETTER HOMES AND GARD	17183	BLIN H	20230	BOUQUET A G S	18907	BUCHHOLTZ E	19917
BETTER HOMES AND GARD	17183	BLIN H	22798	BOUQUET A G S	19064	BUCHHOLTZ E	19543
BETTER HOMES AND GARD	17183	BLIN H	16345	BOUQUET A G S	20232	BUCHHOLTZ E	19237
BETTER HOMES AND GARD	17183	BLIN H	16376	BOUQUET A G S	20380	BUCHHOLTZ E	22127
BETTER HOMES AND GARD	17183	BLIN H	16377	BOUQUET A G S	20422	BUCHHOLTZ E	18137
BETTER HOMES AND GARD	17183	BLIN H	16483	BOUQUET A G S	22802	BUCHHOLTZ E	20042
BETTER HOMES AND GARD	17183	BLIN H	18672	BOUQUET A G S	18621	BUCHHOLTZ E	20043
BETTER HOMES AND GARD	17183	BLIN H	21970	BOUQUET A G S	18622	BUCHHOLTZ E	22157
BETTER HOMES AND GARD	17183	BLIN H	21971	BOUQUET A G S	19229	BUCHHOLTZ E	16381
BETTER HOMES AND GARD	17183	BLIN H	21390	BOUQUET A G S	19065	BUCHHOLTZ E	18327
BETTER HOMES AND GARD	17183	BLIN H	20479	BOUQUET A G S	19065	BUCHHOLTZ E	17445
BETTER HOMES AND GARD	17183	BLIN H	19111	BOUQUET A G S	22700	BUCHHOLTZ E	16382
BETTER HOMES AND GARD	17183	BLIN H	19112	BOUQUET A G S	23060	BUCHHOLTZ E	18908
BETTER HOMES AND GARD	17183	BLIN H	18906	BOUQUET A G S	23375	BUCHHOLTZ E	22653
BETTER HOMES AND GARD	17183	BLIN H	21952	BOUQUET A G S	21792	BUCHHOLTZ E	17188
BETTER HOMES AND GARD	17183	BLIN H	22149	BOUQUET A G S	17238	BUCHHOLTZ E	16613
BETTER HOMES AND GARD	17183	BLIN H	22150	BOUQUET A G S	17362	BUCHHOLTZ E	16628
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	18048	BUCHHOLTZ E	16762
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	20074	BUCHHOLTZ E	17446
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	22154	BUCHHOLTZ E	16346
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	21953	BUCHHOLTZ E	22158
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	16540	BUCHHOLTZ E	22159
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	17363	BUCHHOLTZ E	23464
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	22272	BUCHHOLTZ E	21103
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	21454	BUCHHOLTZ E	16543
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	16379	BUCHHOLTZ E	18338
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	16380	BUCHHOLTZ E	19918
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	22193	BUCHHOLTZ E	19919
BETTER HOMES AND GARD	17183	BLIN H	22151	BOUQUET A G S	21455	BUCHHOLTZ E	20055
BETTER HOMES AND GARD	17183	BLIN H	21390	BOUQUET A G S	21390	BUCHHOLTZ E	20233
BETTER HOMES AND GARD	17183	BLIN H	19059	BOUQUET A G S	23494	BUCHHOLTZ E	22666
BETTER HOMES AND GARD	17183	BLIN H	18561	BOUQUET A G S	23418	BUCHHOLTZ E	22925
BETTER HOMES AND GARD	17183	BLIN H	19060	BOUQUET A G S	17055	BUCHHOLTZ E	21742
BETTER HOMES AND GARD	17183	BLIN H	17864	BOUQUET A G S	17055	BUCHHOLTZ E	16690
BETTER HOMES AND GARD	17183	BLIN H	20222	BOUQUET A G S	19230	BUCHHOLTZ E	16667
BETTER HOMES AND GARD	17183	BLIN H	17324	BOUQUET A G S	17812	BUCHHOLTZ E	19175
BETTER HOMES AND GARD	17183	BLIN H	16538	BOUQUET A G S	20874	BUCHHOLTZ E	19339
BETTER HOMES AND GARD	17183	BLIN H	21452	BOUQUET A G S	16302	BUCHHOLTZ E	22592
BETTER HOMES AND GARD	17183	BLIN H	20273	BOUQUET A G S	22444	BUCHHOLTZ E	18623
BETTER HOMES AND GARD	17183	BLIN H	20480	BOUQUET A G S	16612	BUCHHOLTZ E	19405
BETTER HOMES AND GARD	17183	BLIN H	20700	BOUQUET A G S	16596	BUCHHOLTZ E	20083
BETTER HOMES AND GARD	17183	BLIN H	19600	BOUQUET A G S	23003	BUCHHOLTZ E	20093
BETTER HOMES AND GARD	17183	BLIN H	22799	BOUQUET A G S	19231	BUCHHOLTZ E	18389
BETTER HOMES AND GARD	17183	BLIN H	23059	BOUQUET A G S	19232	BUCHHOLTZ E	20581
BETTER HOMES AND GARD	17183	BLIN H	23308	BOUQUET A G S	19233	BUCHHOLTZ E	20482
BETTER HOMES AND GARD	17183	BLIN H	21860	BOUQUET A G S	19234	BUCHHOLTZ E	22803
BETTER HOMES AND GARD	17183	BLIN H	18679	BOUQUET A G S	20084	BUCHHOLTZ E	16356
BETTER HOMES AND GARD	17183	BLIN H	23191	BOUQUET A G S	16641	BUCHHOLTZ E	20247
BETTER HOMES AND GARD	17183	BLIN H	21820	BOUQUET A G S	17187	BUCHHOLTZ E	20783
BETTER HOMES AND GARD	17183	BLIN H	21021	BOUQUET A G S	20626	BUCHHOLTZ E	20784
BETTER HOMES AND GARD	17183	BLIN H	16539	BOUQUET A G S	19768	BUCHHOLTZ E	20785
BETTER HOMES AND GARD	17183	BLIN H	21293	BOUQUET A G S	20097	BUCHHOLTZ E	21457
BETTER HOMES AND GARD	17183	BLIN H	22800	BOUQUET A G S	18236	BUCHHOLTZ E	17961
BETTER HOMES AND GARD	17183	BLIN H	20097	BOUQUET A G S	22426	BUCHHOLTZ E	21391
BETTER HOMES AND GARD	17183	BLIN H	20098	BOUQUET A G S	22155	BUCHHOLTZ E	19544
BETTER HOMES AND GARD	17183	BLIN H	18791	BOUQUET A G S	19845	BUCHHOLTZ E	17800
BETTER HOMES AND GARD	17183	BLIN H	19600	BOUQUET A G S	21861	BUCHHOLTZ E	21459
BETTER HOMES AND GARD	17183	BLIN H	21741	BOUQUET A G S	20041	BUCHHOLTZ E	17447
BETTER HOMES AND GARD	17183	BLIN H	18666	BOUQUET A G S	22427	BUCHHOLTZ E	22384
BETTER HOMES AND GARD	17183	BLIN H	21491	BOUQUET A G S	19729	BUCHHOLTZ E	22385
BETTER HOMES AND GARD	17183	BLIN H	18422	BOUQUET A G S	19645	BUCHHOLTZ E	23478
BETTER HOMES AND GARD	17183	BLIN H	18074	BOUQUET A G S	18944	BUCHHOLTZ E	16531
BETTER HOMES AND GARD	17183	BLIN H	21620	BOUQUET A G S	19137	BUCHHOLTZ E	22998
BETTER HOMES AND GARD	17183	BLIN H	19127	BOUQUET A G S	22613	BUCHHOLTZ E	19827
BETTER HOMES AND GARD	17183	BLIN H	19912	BOUQUET A G S	22502	BUCHHOLTZ E	20901
BETTER HOMES AND GARD	17183	BLIN H	16609	BOUQUET A G S	18134	BUCHHOLTZ E	17239
BETTER HOMES AND GARD	17183	BLIN H	20274	BOUQUET A G S	20275	BUCHHOLTZ E	17240
BETTER HOMES AND GARD	17183	BLIN H	18018	BOUQUET A G S	20627	BUCHHOLTZ E	17241
BETTER HOMES AND GARD	17183	BLIN H	20861	BOUQUET A G S	21739	BUCHHOLTZ E	20205
BETTER HOMES AND GARD	17183	BLIN H	18423	BOUQUET A G S	18226	BUCHHOLTZ E	22804
BETTER HOMES AND GARD	17183	BLIN H	19792	BOUQUET A G S	18443	BUCHHOLTZ E	20875
BETTER HOMES AND GARD	17183	BLIN H	19061	BOUQUET A G S	22589	BUCHHOLTZ E	21655
BETTER HOMES AND GARD	17183	BLIN H	19913	BOUQUET A G S	20628	BUCHHOLTZ E	17448
BETTER HOMES AND GARD	17183	BLIN H	16611	BOUQUET A G S	22503	BUCHHOLTZ E	17675
BETTER HOMES AND GARD	17183	BLIN H	22152	BOUQUET A G S	18544	BUCHHOLTZ E	22505
BETTER HOMES AND GARD							







ITEM	NAME	ITEM	NAME	ITEM	NAME	ITEM	NAME
20063	DAVIDSON F J	21559	DIBB J R	20489	DUPLAN J H	21659	
16767	DAVIDSON F J	22617	DICKINSON C I	16498	DU PLESSIS C VAN H	21301	
22342	DAVIDSON H R	21828	DICKINSON W H	20436	DU PLESSIS C VAN H	22705	
17469	DAVIDSON J B	21507	DIEGMANN J	16683	DU PLESSIS C VAN H	22766	
17191	DAVIDSON W A B	21507	DIEGMANN J	20975	DU PLESSIS S J	17376	
21824	DAVIES H	22344	DIEGMANN H	18498	DU PLESSIS S J	22037	
17192	DAVIES J L	21658	DIEHL H C	22509	DU PREZ D	17309	
17242	DAVIES L	20584	DIERFELD	18627	DUPREZ R	20430	
17371	DAVIES L	20585	DIERFELD G F	21069	DUPREZ R	20430	
18649	DAVIES W	17067	DIFTZ C J	19652	DUPREZ R	20172	
21656	DAVIS D H S	20879	DIFTZ C J	22344	DUPREZ R	17821	
17470	DAVIS F M	18575	DIJKSHOORN K J	21934	DUPREZ R	21475	
20166	DAVIS F M	18575	DIJKSHOORN K J	18842	DUMAND P	22281	
22053	DAVIS G K	19182	DIKIS M	21747	DUMANTE D	20999	
21921	DAVIS J G	21644	DIKMANS G	19244	DUMANTE D	23005	
19078	DAVIS L H	23018	DIMITRI M J	16398	DUNKER J F	21083	
21457	DAVIS W C	22241	DIMITROPOULOS E	19082	DUNN J F	21691	
21657	DAVYDOVA L P	17068	DIMITROPOULOS F	19076	DURSAULT C	23318	
16551	DAWSON A H	17069	DIMITROPOULOS R	18710	DUSTON F M JH	19505	
16620	DAWSON C H	21998	DIMOND L E	20084	OUTHIE R C	20200	
20878	DAWSON J H	16397	DINNING J S	23004	DU TOIT E	20588	
17965	DAWSON L E	19079	DINSUALE D H	22813	DURSMA G D	17481	
21444	DAWSON P R	22508	DISCHLEIT J	19408	DUYAL J C	22591	
21453	DAWSON T R	22590	DIXON A C	20076	DUYKSTRA R R	21107	
17682	DAY L H	16693	DIXSAUT H	19565	EAHLE P A	21072	
17819	DAY P L	19945	DIXSON R A	19430	EAST L P	22170	
19733	DAY W M	22812	DJENDEN R	17780	EASTBROOK L F	17162	
16741	DEAMBROSIO J R	23039	DOAK B W	22935	EASTBROOK L F	21660	
18149	DEAN A L	20034	DOBBIN H	19603	EASTERN OREG WHEAT		
20438	DEAN G W	18274	DOBBIN H	19344	LEAGUE 22171	22685	
20438	DEAN J C	17475	DOBBIN H	17865	EASTMAN E R	23494	
20438	DEAN J D	21871	DOBBIN H	23424	EATON A	19921	
20438	DEAN L A	17886	DOBBIN H	19245	EBBELL	20445	
21744	DEARSTYNE R S	20987	DOBBIN H	17967	EBBELL	19996	
17777	DEBOR H W	17245	DOBBIN H	16511	EBBELL	20706	
17471	DECKERS J H F	17681	DOBBIN H	21872	EBBELL M	17482	
18428	DECOUX L	18049	DOBBIN H	20064	EBELLING W	17483	
19181	DEGLIUS G	16510	DOBBIN H	22432	EBERLE G	19822	
20196	DEGRAFF H	23003	DOBBIN H	21989	EBERLE W	19822	
23467	DE GUERIN B C	21560	DOBBIN H	18202	EBERLE W	19822	
16509	DE GUERIN B C	23381	DOBBIN H	20100	ECK H V	19822	
18709	DE GUERIN B C	22618	DOBBIN H	20285	ECKARDT	19822	
19734	DE GUERIN B C	20080	DOBBIN H	19653	ECKARDT	19822	
21583	DE GUERIN B C	20197	DOBBIN H	17919	ECKELL O A	19553	
18825	DE JESUS Z	19183	DOBBIN H	23543	ECKER J	18329	
18825	DE JESUS Z	19343	DOBBIN H	22983	ECKER J	20307	
18825	DE JESUS Z	18853	DOBBIN H	22983	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19244	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21126	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	16621	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	16553	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21995	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	20681	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	23066	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17478	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	18518	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	23040	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17479	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21474	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	23576	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	23577	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19503	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	20288	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17193	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17480	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	20586	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21718	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	20637	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19504	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	18599	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22033	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22063	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19819	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17889	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22168	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17820	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22169	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17248	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21748	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	23382	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22216	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21070	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21071	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17683	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21161	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21218	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	18328	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22697	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22433	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21155	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19820	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17249	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22084	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19654	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22619	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	23179	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21282	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19604	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	14486	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22768	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	23140	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	23153	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17375	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17250	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19655	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19027	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21071	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21415	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	22434	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21562	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	16310	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	16512	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19247	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21563	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	20250	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21873	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	16622	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	16623	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17781	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	23206	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21874	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21139	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	21140	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	20199	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	19248	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17071	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	20444	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	17251	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	20236	ECKER J	18329	
18825	DE JESUS Z	18853	DOBBIN H	16513	ECKER J	18329	



ITEM	ITEM	ITEM	ITEM
ENSMINGEN D	23211 FERRARI C	21478 FOXA J DE	18330 GALVAGNI A
ENSMINGEN M F	20196 FERRAZ C G	18916 FRANCA P A	20853 GALVAO A L A
EPDS E A JR	21830 FERRAZ Y DE	16770 FRANCE R A	20644 GAMAACHE C A
ERBACHER E	21712 FERREIRA L D B B	19557 FRANCE INST NATL DE LA	23121 GAMAHA DULANTO L
ERBACHER W	21387 FERREIRA M E	18144 STATIS ET DES ETUDES	20715 GAMBARD
ERBS K	23041 FERRER PALAUS J	19405 ECON 21880	GANAPATHI IYER G SH
ERDMANN G	18432 FERRIOLS V	22284 FRANCHET A	
ERDOS J	20756 FERRO H	22437 FRANCIOISA L	
ERIKSSON E	19085 FESTA A	20883 FRANCIOISA L	
ERIKSSON F	21661 FEUSI H	23319 FRANCK O	
ERIKSSON K A	23006 FIBRE BOX ASSOC	18668 FRANK W	
ERNEGG	21188 FICKENIEY E	17970 FRANK L	
ERKINGTON B J	18241 FIDLER J C	22077 FRANKEN W C A C	
ERKINGTON B J	19554 FIDLU H I	19252 FRANKEN W C A C	
ERHOLL F J	19555 FIDLUING A H	17885 FRANKENA H J	
ERSHOVA I P	21393 FIGUEROA A	22939 FRANKENBERG G V	
ESAKI T	23509 FIGURA V	19482 FRANKSEN J J	
ESAKI T	20707 FILENI E	23385 FRANTZEN H	
ESCOBAR DUARTE F	20708 FILION R	19253 FRANZ H	
ESKEDAL W	20493 FILLEY C	22934 FRAPPA C EU	
ESLAVA G	19086 FINOLEN P J	21302 FRASER A	
ESPARZA FABRES R	19935 FINOLEN P J	21957 FRASSODATI C	
ESPIGULE PUIG J	18843 FINK H	21479 FKEAR D E H	
ESPLIN A C	22174 FINKNE I	19735 FKEAR D E H	
ESPLIN A L	20065 FINNIE D M	22177 FKEAR D E H	
ESPOUY F	20085 FINSTERBUSCH C A	19658 FHECKMANN	
ESQUEL	19824 FINUCANE T P	21491 FHEFMAN H A	
ESQUIVEL R C	19556 FIORI G	20494 FHEFMAN J A	
ESSEVELD H	20851 FIORI W	20098 FRESE H	
ESTEBAN M	18922 FINTH J B	20906 FRENCH E	
ESTEBES A M D	22388 FISCHER C M	22512 FRENCH M W	
ESTNER B	21075 FISHER J L	21875 FRENCH M W	
ESTRADA M	18844 FISHER R T	23386 FREY H	
ESTREMEIRA DE CABEZAS M	17416 FISHER WEBSTER K	20817 FREY HUBER H	
20388	FITCH C L	16544 FREYTAG G F	
ETCHEPARE A	21662 FITE G C	22001 FREZAL P	
ETIGNY J D	22283 FITZGERALD D A	18176 FRICK E J	
ETTER A G	16311 FITZGERALD D A	22816 FRICK H	
EUDES M J	16399 FITZPATRICK D	22817 FRICKER H	
EVANS A W	22620 FITZSIMMONS J R	20389 FRICKER H	
EVANS G W	22389 FLACCOMIO E	22767 FRIDEN L	
EVANS H D	16570 FLACH G	21958 FRIEDL A	
EVANS J	17490 FLACHS K	22768 FRIEDL A	
EVANS J W	20709 FLAVIEN J	20710 FRIEDMANN G	
EVANS W D	19657 FLAWN L N	23320 FRIEDRIGER	
EVANS SANFORD STATIS SERV	22175 FLEHN F	18219 FRIEND W H	
22175	FLEISCHER H O	20933 FRIEND W H	
EVERETT T H	17491 FLESAND A	18711 FRIEND W H	
EVERZ K E	19087 FLESCHER H M	22601 FRIES M	
EVISON J	17492 FLETCHER T G	21877 FRIES R F	
EVISON J R B	17331 FLOCH M	21120 FRIES R F	
EVISON J R B	17493 FLOHMER H	20711 FKIEIEMA H J	
EVKHEINOFF V A	17417 FLORES SOLIS O	22819 FKIEIEMA H J	
EWER H	18923 FLA DEPT OF AGR	23007 FRINGS H	
EWING W C	20638 CITRUS AND VEG INSP DIV		
	22039		
FABER A	21222 FLORIN R	16400 FRITZ	
FABIANI L	17686 FLORSCHUTZ P A	16771 FRITZ E	
FABRE R	21351 FLORY C H	18276 FRITZSCHE	
FABREGAS H	20201 FLUCKIGER	18927 FRITZSCHE	
FABREGUES SOLER J M DE	21477 FLUCKIGER G	18926 FRITZSCHE C	
21477	FLYNN C A	18145 FRITZSCHE K	
FACHINI G	19249 FODOR P J	20251 FROMMICH	
FACHINI G	19250 FOGG G E	16312 FROMMICH	
FACKLER E	18053 FOMMAN M H	19316 FROMMICH E	
FACER T M	21063 FOLLURA A	17922 FROMMICH E	
FACER T M F	16769 FOLLIONI A	17971 FROMMICH A	
FALCAO H R	18915 FONDARD L	17688 FROMMICH A	
FALCAO H R	18916 FONDARD L	17972 FROMMICH A	
FALCAO H R	18917 FONDARD L	22088 FROMMICH A	
FALCAO J I DE A	16429 FONSECA A E DA	20632 FROMMICH A	
FALCONER D S	20494 FONTANE R	22769 FROMMICH A	
FALKENSTEIN B I U	23510 FONTANA E	18191 FROMMICH A	
FALQUE X	23067 FONTANELLI E	20203 FROMMICH A	
FANNING J W	22993 FONTANELLI G	21481 FROMMICH A	
FANTOLI A	23049 FONTANILLE H	21959 FROMMICH A	
FANBER M	18086 FOOD AND AGR ORGAN OF		
FANDY A	16768 THE U N	21246	
FANEY E A	19347 FOMBERG R H	18529	
FANISH L R	17687 FOMBERG R H	20013 FUCHS F W	
FARLOW A C	21352 FOND C P	17689 FUCHS W H	
FARMERS UNION GRAIN		19409 FUCHSLOCHER G	
TERMINAL ASSOC		19659 FUDGE J F	
FARRALL A W	22176 FORD E J H	19606 FUKAYA M	
FARRELL T R	22621 FORD H M	18630 FULFORD H J	
FAUCILLON X	20932 FORDMAN M	19348 FULFORD H J	
FAURE L	22622 FOMEST PROU RES SOC	21878 FULFORD H J	
FAUSEL W	22623 FOMMIGONI	19254 FULLER B K	
FAUSEL W	20495 FOMMIGONI	16555 FULLER C H F	
FAVARE M	21394 FOMMIGONI	16556 FULLERTON U J	
FAVRE M	22494 FOMMIGONI	22993 FULLILOVE W T	
FEDOTOVA T I	16706 FOMMIGONI	20174 FULLITS J	
FEELEY R E	21395 FOMMIGONI	23213 FULMOR MRS P D	
FEELEY R E	22951 FOMMIGONI	20447 FUNK E M	
FEELEY R E	20202 FOMMIGONI	18435 FUNK M D B	
FEELEY R E	19507 FOMMIGONI	22624 FUSTE V	
FEHLE U	20905 FOMMIGONI		
FEICHTWIRE E F	16625 FOMMIGONI		
FEIS H	23383 FOMMIGONI		
FELDMAN W H	18924 FOMMIGONI		
FELDMAN W H	16734 FOMMIGONI		
FELICE P DE	22937 FOMMIGONI		
FELICE P DE	23068 FOMMIGONI		
FELICE P DE	23069 FOMMIGONI		
FELIGONDE M DE	17252 FOMMIGONI		
FELLERS C R	22334 FOMMIGONI		
FELLMAN T	20131 FOMMIGONI		
FELSENFIELD O	18925 FOMMIGONI		
FELTINGER L	23384 FOMMIGONI		
FENDL	23070 FOMMIGONI		
FEO A DE	22938 FOMMIGONI		
FENGUSON F F	20639 FOMMIGONI		
FERNANDES GARCIA A	17969 FOMMIGONI		
FERNANDEZ J I	19088 FOMMIGONI		
FERNANDEZ CASAS A	23512 FOMMIGONI		
FERNANDEZ HERNANDEZ E	17972 FOMMIGONI		
FERNANDEZ HERNANDEZ E	18142 FOMMIGONI		
FERNANDEZ YEPEZ A	21166 FOMMIGONI		
FERNANDEZ Y FERNANDEZ R	18143 FOMMIGONI		
FERNANDEZ Y FERNANDEZ R	23072 FOMMIGONI		
FERRARI	22038 FOMMIGONI		
FERRACUTI M	17253 FOMMIGONI		
FERRACUTI M	17254 FOMMIGONI		
FERRARA A	22436 FOMMIGONI		
FERRARI	21664 FOMMIGONI		



ITEM	ITEM	ITEM	ITEM
GILLET C A	18745	GT BRIT COLON OFF	22223
GILLET C B	22944	GT BRIT COLON PROD RES	
GILLETTE M L P S	20649	COUNCIL	23578
GILLIARD S	20144	GT BRIT DEPT OF SCI AND	
GILLIAN P	17696	INDUS RES	21883
GILLIS M H	19737	FOREST PROD RES LAB	
GILLIS M H	19744	20501	
GILLMAN J	23426	GT BRIT FORESTRY COMM	
GILLMAN T	23426	18245	
GILMAN W	21230	GT BRIT FORESTRY COMM	
GIL MONTERO J	21487	20502	
GILMA C A	18005	GT BRIT LAWS STATUTES	
GILROY P E	22054	ETC	22824
GILS A	23323	GT BRIT MIN OF AGR AND	
GIMOUX R	21960	FISHERIES	19261
GIMOUX R	20393	GT BRIT MIN OF AGR AND	
GIMOUX R	17500	FISHERIES	19262
GIMOUX R	22181	GT BRIT MIN OF AGR AND	
GIMOUX R	21622	FISHERIES	20103
GIMOUX R	19510	GT BRIT MIN OF AGR AND	
GIMOUX R	19608	FISHERIES	20396
GIMOUX R	19095	GT BRIT MIN OF AGR AND	
GIMOUX R	18331	FISHERIES	20450
GIMOUX R	20297	GT BRIT MIN OF AGR AND	
GIMOUX R	19181	FISHERIES	20717
GIMOUX R	22514	GT BRIT MIN OF AGR AND	
GIMOUX R	19693	FISHERIES	21433
GIMOUX R	17379	GREEN D E	16708
GIMOUX R	17683	GREEN E	22771
GIMOUX R	19609	GREEN G G	17502
GIMOUX R	20298	GREEN N	20321
GIMOUX R	18332	GREENAN F R	19665
GIMOUX R	17195	GREENE L W	17858
GIMOUX R	17501	GREENHAM D W	18024
GIMOUX R	19664	GREENSLADE R M	20302
GIMOUX R	19938	GREENWOOD A W	19832
GIMOUX R	22112	GREENWOOD H W	20937
GIMOUX R	23513	GREER R	19412
GIMOUX R	22090	GREGORY C L	23160
GIMOUX R	18244	GREGORY E J	23579
GIMOUX R	17175	GREGORY H W	20938
GIMOUX R	16775	GREGORY H W	23544
GIMOUX R	20909	GREGORY H W	22825
GIMOUX R	20394	GRIEDEL E	20503
GIMOUX R	16626	GRIEDEL E	17503
GIMOUX R	20714	GRIEDEL E	17827
GIMOUX R	20299	GRIEDEL E	17984
GIMOUX R	18554	GRIEDEL E	20504
GIMOUX R	16623	GRIFFITH J B	20718
GIMOUX R	21144	GRIFFITH J B	20718
GIMOUX R	18930	GRIFFITH J B	20718
GIMOUX R	17164	GRIFFITH J B	20718
GIMOUX R	19350	GRIFFITH J B	20718
GIMOUX R	18925	GRIFFITH J B	20718
GIMOUX R	17310	GRIFFITH J B	20718
GIMOUX R	22371	GRIFFITH J B	20718
GIMOUX R	23571	GRIFFITH J B	20718
GIMOUX R	22345	GRIFFITH J B	20718
GIMOUX R	19096	GRIFFITH J B	20718
GIMOUX R	20300	GRIFFITH J B	20718
GIMOUX R	20040	GRIFFITH J B	20718
GIMOUX R	16315	GRIFFITH J B	20718
GIMOUX R	22770	GRIFFITH J B	20718
GIMOUX R	18665	GRIFFITH J B	20718
GIMOUX R	20716	GRIFFITH J B	20718
GIMOUX R	20757	GRIFFITH J B	20718
GIMOUX R	19260	GRIFFITH J B	20718
GIMOUX R	22182	GRIFFITH J B	20718
GIMOUX R	23487	GRIFFITH J B	20718
GIMOUX R	23483	GRIFFITH J B	20718
GIMOUX R	21390	GRIFFITH J B	20718
GIMOUX R	19829	GRIFFITH J B	20718
GIMOUX R	19830	GRIFFITH J B	20718
GIMOUX R	22515	GRIFFITH J B	20718
GIMOUX R	19411	GRIFFITH J B	20718
GIMOUX R	19470	GRIFFITH J B	20718
GIMOUX R	19470	GRIFFITH J B	20718
GIMOUX R	20449	GRIFFITH J B	20718
GIMOUX R	22183	GRIFFITH J B	20718
GIMOUX R	17983	GRIFFITH J B	20718
GIMOUX R	22609	GRIFFITH J B	20718
GIMOUX R	18931	GRIFFITH J B	20718
GIMOUX R	21109	GRIFFITH J B	20718
GIMOUX R	21882	GRIFFITH J B	20718
GIMOUX R	16776	GRIFFITH J B	20718
GIMOUX R	23514	GRIFFITH J B	20718
GIMOUX R	20395	GRIFFITH J B	20718
GIMOUX R	20050	GRIFFITH J B	20718
GIMOUX R	19381	GRIFFITH J B	20718
GIMOUX R	19455	GRIFFITH J B	20718
GIMOUX R	21231	GRIFFITH J B	20718
GIMOUX R	16402	GRIFFITH J B	20718
GIMOUX R	23468	GRIFFITH J B	20718
GIMOUX R	18092	GRIFFITH J B	20718
GIMOUX R	20801	GRIFFITH J B	20718
GIMOUX R	23215	GRIFFITH J B	20718
GIMOUX R	17882	GRIFFITH J B	20718
GIMOUX R	22290	GRIFFITH J B	20718
GIMOUX R	21373	GRIFFITH J B	20718
GIMOUX R	16673	GRIFFITH J B	20718
GIMOUX R	22184	GRIFFITH J B	20718
GIMOUX R	19831	GRIFFITH J B	20718
GIMOUX R	21303	GRIFFITH J B	20718
GIMOUX R	23155	GRIFFITH J B	20718
GIMOUX R	21374	GRIFFITH J B	20718
GIMOUX R	22821	GRIFFITH J B	20718
GIMOUX R	19738	GRIFFITH J B	20718
GIMOUX R	19739	GRIFFITH J B	20718
GIMOUX R	19740	GRIFFITH J B	20718
GIMOUX R	19741	GRIFFITH J B	20718
GIMOUX R	19712	GRIFFITH J B	20718
GIMOUX R	19713	GRIFFITH J B	20718
GIMOUX R	15665	GRIFFITH J B	20718
GIMOUX R	18235	GRIFFITH J B	20718
GIMOUX R	16514	GRIFFITH J B	20718
GIMOUX R	22516	GRIFFITH J B	20718
GIMOUX R	17697	GRIFFITH J B	20718
GIMOUX R	28010	GRIFFITH J B	20718
GIMOUX R	23469	GRIFFITH J B	20718
GIMOUX R	18004	GRIFFITH J B	20718
GIMOUX R	20102	GRIFFITH J B	20718
GIMOUX R	20650	GRIFFITH J B	20718
GIMOUX R	19251	GRIFFITH J B	20718
GIMOUX R	19593	GRIFFITH J B	20718
GIMOUX R	20202	GRIFFITH J B	20718
GT BRIT BRITISH AGR	22822	MISSION TO SO AMER	
GT BRIT BRIT INTELL			
OBJECTIVES SUB COM	20301		
HACHMANN W	22186	HACHMANN W	21194
HACHMANN W	18973	HACHMANN W	21728
HACHMANN W	22518	HACHMANN W	21397
HACHMANN W	22592	HACHMANN W	19098
HACHMANN W	22446	HACHMANN W	17149
HACHMANN W	17506	HACHMANN W	18013
HACHMANN W	22519	HACHMANN W	18268
HACHMANN W	21040	HACHMANN W	22013
HACHMANN W	19263	HACHMANN W	22950
HACHMANN W	17698	HACHMANN W	21162
HACHMANN W	19671	HACHMANN W	21630
HACHMANN W	17256	HACHMANN W	21275
HACHMANN W	23140	HACHMANN W	18690
HACHMANN W	23141	HACHMANN W	21887
HACHMANN W	23142	HACHMANN W	20254
HACHMANN W	23143	HACHMANN W	20254
HACHMANN W	23153	HACHMANN W	19251
HACHMANN W	23217	HACHMANN W	21888
HACHMANN W	16712	HACHMANN W	20940
HACHMANN W	22829	HACHMANN W	17333
HACHMANN W	21076	HACHMANN W	18555
HACHMANN W	19511	HACHMANN W	17988
HACHMANN W	22830	HACHMANN W	17380
HACHMANN W	22947	HACHMANN W	
HACHMANN W	21766	HACHMANN W	
HACHMANN W	20910	HACHMANN W	18336
HACHMANN W	18205	HACHMANN W	17886
HACHMANN W	21885	HACHMANN W	19099
HACHMANN W	17507	HACHMANN W	20236
HACHMANN W	22447	HACHMANN W	21889
HACHMANN W	19030	HACHMANN W	16318
HACHMANN W	17508	HACHMANN W	17517
HACHMANN W	21754	HACHMANN W	17518
HACHMANN W	21304	HACHMANN W	22503
HACHMANN W	22747	HACHMANN W	17198
HACHMANN W	22194	HACHMANN W	21022
HACHMANN W	17886	HACHMANN W	21356
HACHMANN W	23218	HACHMANN W	17923
HACHMANN W	18334	HACHMANN W	18277
HACHMANN W	22948	HACHMANN W	20157
HACHMANN W	23546	HACHMANN W	19940
HACHMANN W	23303	HACHMANN W	19266
HACHMANN W	21886	HACHMANN W	17785
HACHMANN W	20207	HACHMANN W	22292
HACHMANN W	19742	HACHMANN W	20310
HACHMANN W	17784	HACHMANN W	22187
HACHMANN W	20651	HACHMANN W	17888
HACHMANN W	22520	HACHMANN W	22094
HACHMANN W	20304	HACHMANN W	21963
HACHMANN W	17509	HACHMANN W	21964
HACHMANN W	16750	HACHMANN W	16409
HACHMANN W	16778	HACHMANN W	17075
HACHMANN W	16404	HACHMANN W	21059
HACHMANN W	23076	HACHMANN W	18720
HACHMANN W	20156	HACHMANN W	17829
HACHMANN W	20652	HACHMANN W	21965
HACHMANN W	23043	HACHMANN W	21398
HACHMANN W	20305	HACHMANN W	20452
HACHMANN W	21305	HACHMANN W	19100
HACHMANN W	20992	HACHMANN W	18246
HACHMANN W	22593	HACHMANN W	22448
HACHMANN W	16317	HACHMANN W	20177
HACHMANN W	20884	HACHMANN W	22095
HACHMANN W	19246	HACHMANN W	20208
HACHMANN W	19561	HACHMANN W	17257
HACHMANN W	22093	HACHMANN W	17924
HACHMANN W	17817	HACHMANN W	20761
HACHMANN W	22090	HACHMANN W	16709
HACHMANN W	17510	HACHMANN W	20590
HACHMANN W	17873	HACHMANN W	16410
HACHMANN W	19463	HACHMANN W	20178
HACHMANN W	18520	HACHMANN W	20210
HACHMANN W	16694	HACHMANN W	17519
HACHMANN W	16779	HACHMANN W	19485
HACHMANN W	18443	HACHMANN W	18096
HACHMANN W	22594	HACHMANN W	21195
HACHMANN W	16515	HACHMANN W	19785
HACHMANN W	16516	HACHMANN W	21991
HACHMANN W	16562	HACHMANN W	17522
HACHMANN W	17511	HACHMANN W	20720
HACHMANN W	19265	HACHMANN W	19188
HACHMANN W	22626	HACHMANN W	18944
HACHMANN W	18093	HACHMANN W	16302
HACHMANN W	22772	HACHMANN W	20508
HACHMANN W	224291	HACHMANN W	19941
HACHMANN W	22042	HACHMANN W	17145
HACHMANN W	18346	HACHMANN W	16411
HACHMANN W	18146	HACHMANN W	17886
HACHMANN W	21102	HACHMANN W	17875
HACHMANN W	17512	HACHMANN W	21831
HACHMANN W	18335	HACHMANN W	17076
HACHMANN W	17513	HACHMANN W	19082
HACHMANN W	19539	HACHMANN W	19076
HACHMANN W	20306	HACHMANN W	19266
HACHMANN W	20307	HACHMANN W	20215
HACHMANN W	20308	HACHMANN W	18337
HACHMANN W	22373	HACHMANN W	19268
HACHMANN W	22391	HACHMANN W	17521
HACHMANN W	17987	HACHMANN W	19646
HACHMANN W	22602	HACHMANN W	22449
HACHMANN W	17805	HACHMANN W	17701
HACHMANN W	19540	HACHMANN W	21023
HACHMANN W	21110	HACHMANN W	19610
HACHMANN W	16405	HACHMANN W	20802
HACHMANN W	19911	HACHMANN W	16351
HACHMANN W	16406	HACHMANN W	23517
HACHMANN W	16407	HACHMANN W	22362
HACHMANN W	19484	HACHMANN W	20256
HACHMANN W	19512	HACHMANN W	20453
HACHMANN W	18551	HACHMANN W	20653
HACHMANN W	18571	HACHMANN W	23219
HACHMANN W	21396	HACHMANN W	19513
HACHMANN W	18882	HACHMANN W	17880
HACHMANN W	19672	HACHMANN W	22349
HACHMANN W	20309	HACHMANN W	16412
HACHMANN W	21949	HACHMANN W	16413
HACHMANN W	23460	HACHMANN W	16414
HACHMANN W	23449	HACHMANN W	19872
HACHMANN W	17699	HACHMANN W	16563
HACHMANN W	21268	HACHMANN W	21248
HACHMANN W	17514	HACHMANN W	22096
HACHMANN W	17515	HACHMANN W	21566
HACHMANN W	22949	HACHMANN W	23014
HACHMANN W	19205	HACHMANN W	20911
HACHMANN W	23460	HACHMANN W	17258
HACHMANN W	19128	HACHMANN W	20704
HACHMANN W	17516	HACHMANN W	20591
HACHMANN W	16408	HACHMANN W	20941
HACHMANN W	17700	HACHMANN W	21145
HACHMANN W	22347	HACHMANN W	16415
HACHMANN W	22348	HACHMANN W	19673
HACHMANN W	18521	HACHMANN W	18408
HACHMANN W		HACHMANN W	



171



	ITEM		ITEM		ITEM		ITEM
KASNSITSKAIA M	21745	KLAUSER H	17539	KRIEGER F	22750	LANDEVIN E	17336
KASNITSKA P R	21853	KLFR K	19955	KRIFGLMEYER J	21497	LANCLET J	19116
KASAHARA Y	17537	KLFCHKOVSII V M	17883	KRIFGLMEYER J	21498	LANIER P	22355
KASAHARA Y	17787	KLFCHKOVSII V M	17986	KRISHNAN T S	22531	LANOWSKI M	18940
KASAHARA Y	17788	KLF L	22194	KRISHNANWAMY M A	21624	LANTLMW	20518
KASAHARA Y	22196	KLEIN G T	19956	KROIL U	17836	LANTZ H L	17268
KASAHARA Y	22197	KLEIN G T	21115	KROMDIJK G	17544	LANTZ H L	17548
KASHIRKINA N V	17883	KLEIN K	20514	KRONENBERG H G	17387	LANTZ H L	17548
KATZNEISON H	20398	KLEMM D E	16680	KRONHAFF J	21766	LANKA J F S	20705
KAUDER I	19680	KLFNK E	17139	KRUEGER W C	21147	LAKKORTHY M V	19683
KAUFERT F H	18748	KLIMESCH A	21198	KRUEGER W C	20318	LAKMOUR H K	22260
KAUFMAN L	19601	KLINOWSKI M	17789	KRUEF W	20810	LAKREA A	17390
KAUFMAN L	19682	KLINE A B	21576	KRUIJK P A	16689	LAKRERIA EGUSQUIZA D	
KAUFMAN L	19844	KLINE A B	22844	KRUIJK P A	16571		
KAUSCHE G A	16712	KLINE A B	23333	KRUIJK P A	17866	LAKRIVA H DE	19570
KAUSCHE G A	19297	KLINE E A	22395	KRUIJK J P	22845	LAKSEN C M	18452
KAUTER A	17083	KLINGE G M	22456	KRUMMEL H	17335	LAKSEN C V S	18101
KAVFN	17264	KLINKOWSKI M	21949	KRUMMEL H	20661	LAKSEN H	16572
KAVFN	17264	KLIPPLE G E	17084	KRUPICKA J	18182	LAKSEN H C	21972
KAVFN	20807	KLIUCHNIKOV V K	19515	KRUPIN G	23548	LAKSEN P H	22776
KEADY H F	19473	KLOSE H	17085	KRUSE C W	20595	LAKSEN S A	23228
KEARNS H G H	17321	KLOSE H	23519	KSATELIC J	19205	LAKSEN S A	22666
KEBBY R G	17312	KLOSE N	20762	KUBOTA Y	18224	LAKSON R E	17714
KEESTRA J	20159	KLOTZ I J	16570	KUCYNIAR J	16489	LAKSON R E	17714
KEH K	21892	KLOTZ I J	16536	KUCYNIAR J	16490	LAKUE C D	16783
KEH K	21893	KLUIBENS HEDL H	20944	KUEHL H J	18666	LAKUE P	17269
KEH K	23392	KNAAPP J G	23334	KUFFERATH E J	19568	LAKUE P	21499
KEHAN N D	19851	KNAUS H S	17540	KUHL R	20319	LAS CASES E DE	22777
KEHAN N D	19194	KNAUS K D	18098	KUHMAN G W	23011	LAS CASES E DE	23080
KEIHOLZ F J	20240	KNAUSS A C	18713	KUHLMAN E	16742	LASSEN J M	18453
KEIPPER C H	21402	KNAUTH A	21354	KUHLMAN J G	16429	LASSERRE	19541
KEISER I	20508	KNIELY A	19032	KUHNHOITZ LORDAT G	16430	LASSERRE	17792
KEITH C K	19845	KNIFLY A	19107	KUHLMAN L W	22822	LATHAM E G	22846
KEITT G W	16293	KNIGHT G E	19108	KULCKE	20180	LATHAM J O	19758
KEITT R	16214	KNIGHT G E	18749	KULL K F	19958	LATHROP E C	21898
KELLER D S	21836	KNIPLING E F	20315	KUMANOV S	19959	LAUBERT H	16521
KELLER E L	18696	KNIPLING E F	20316	KUMANOV S	22532	LAUBERT H	22657
KELLER G J	21997	KNOSP C	17996	KUMFAT K	21648	LAUBERT H	22657
KELLER J C	21113	KNOTT J C	21111	KUMMER U VON	19516	LAUBERT H	22657
KELLER J C	22454	KNOTZINGER O	17541	KUMMEROW F A	23474	LAUBERT H	22657
KELLERMANN R	16196	KNOTZINGER O	17542	KUNKEL H O	20035	LAUBERT H	22657
KELLIF V W	17989	KNOTZINGER O	22100	KUNKEL R	16697	LAURANS H	19454
KELLIOCC L F	13380	KNOWLES K S	17267	KUD J S	21895	LAURENCE E P B	22707
KELLIOCC L F	18521	KNOWLTON G F	20515	KUPKA H	17713	LAURIDSEN L	20181
KELLY C F	20210	KNOWLTON G F	20516	KUPPER W	16431	LAVITT POTATO CO	22018
KELLY H E	22193	KNOWLTON G F	20727	KUPPERS SONNENBERG G A	23227	LAW A G	17040
KFLY W H	19264	KOBKE P	18773	KUPPERS SONNENBERG G A	23227	LAW A G	17040
KELTIKANGAS V	18450	KOBOLD J	20018	KUPPERS SONNENBERG G A	23227	LAW H E	22998
KEMMER E	17265	KOBZEV D	21762	KURON H	17873	LAWRENCE G V	17901
KEMPER J	17266	KOCH H	21001	KURON H	17914	LAWRENCE W J C	17715
KEMPER M E	22528	KOCH H G	23225	KURON H	17914	LAWRY H B	19117
KENDALL C	21968	KOCH H G	17205	KURON H	17914	LAWSON E	20980
KENDRICK H	19382	KOCH P	17206	KURON H	17914	LAWSON E	20980
KENDRICK H	16581	KOCHETKOVA A S	18523	KURON H	17914	LAWSON E	20980
KENDRICK J B JR	16634	KOCT K A	23553	KURON H	17914	LAWSON E	20980
KENDRICK J B JR	16635	KOENS A J	20457	KURON H	17914	LAWSON E	20980
KENNEDY F	22353	KOENS A J	21070	KURON H	17914	LAWSON E	20980
KENNEDY J S	20857	KOENS A J	21971	KURON H	17914	LAWSON E	20980
KENNEDY S	22774	KOFERVER C	21763	KURON H	17914	LAWSON E	20980
KENNEDY S	22842	KOFSTLER G	21697	KURON H	17914	LAWSON E	20980
KENNEDY S	21114	KOHIER R	17997	KURON H	17914	LAWSON E	20980
KENNING W	22954	KOHL S G M	20462	KURON H	17914	LAWSON E	20980
KENNING W	23332	KOHLNLEIN	21435	KURON H	17914	LAWSON E	20980
KENT W H	21249	KOHLNLEIN	23122	KURON H	17914	LAWSON E	20980
KERKOSCH M	17834	KOHLNLEIN	18852	KURON H	17914	LAWSON E	20980
KERKHARO J	17835	KOKKINIA S	18247	KURON H	17914	LAWSON E	20980
KERKAMP H C H	20211	KOKKINS J	18562	KURON H	17914	LAWSON E	20980
KERN R W	20594	KOLACEK S	19557	KURON H	17914	LAWSON E	20980
KERNSTENS J	20726	KOLACHOV P	21505	KURON H	17914	LAWSON E	20980
KERNSTENS J	23048	KOLL F	20978	KURON H	17914	LAWSON E	20980
KESPER J	18636	KOLL L A H	19197	KURON H	17914	LAWSON E	20980
KESTHAT M DE	22455	KOLLOSOV N	21764	KURON H	17914	LAWSON E	20980
KEYLWERTH R	18556	KOMP W H W	20660	KURON H	17914	LAWSON E	20980
KEYLWERTH R	18732	KON S K	19812	KURON H	17914	LAWSON E	20980
KHALIL F	17882	KONDE W N	19421	KURON H	17914	LAWSON E	20980
KHAN A H	19439	KONDO M	22195	KURON H	17914	LAWSON E	20980
KHANNA K L	17166	KONDO M	22196	KURON H	17914	LAWSON E	20980
KHANNA K L	17994	KONDO M	22197	KURON H	17914	LAWSON E	20980
KHATCHADOURIAN L DER	19954	KONIG E	18397	KURON H	17914	LAWSON E	20980
		KONIG E	18398	KURON H	17914	LAWSON E	20980
KHOLPOVA A	21745	KONINGSBERGER V J	22628	KURON H	17914	LAWSON E	20980
KHVOSTOVA V V	20833	KOPACZEWSKI W	21623	KURON H	17914	LAWSON E	20980
KIBLER H H	18974	KOPETZ L M	17712	KURON H	17914	LAWSON E	20980
KIRIER H H	22235	KOPETZ L M	18056	KURON H	17914	LAWSON E	20980
KIRIE E E	22529	KOPETZ L M	19079	KURON H	17914	LAWSON E	20980
KIRNER G	17711	KOPETZ L M	19109	KURON H	17914	LAWSON E	20980
KIRSON A L	21761	KOPES S	17498	KURON H	17914	LAWSON E	20980
KIELANOWSKI J M	17756	KOPPISCH H	18057	KURON H	17914	LAWSON E	20980
KIELHOFER E	21495	KOPYTOV F	21765	KURON H	17914	LAWSON E	20980
KIELHOFER E	21496	KOPRICH H	19110	KURON H	17914	LAWSON E	20980
KIFSER M E	17730	KOPRICH H	19111	KURON H	17914	LAWSON E	20980
KIHLEN G	19769	KOSIKOWSKY F V	21689	KURON H	17914	LAWSON E	20980
KIKER C C	20657	KOSKINEN L	19848	KURON H	17914	LAWSON E	20980
KIKUTH W	19846	KOSSENAK S G	18309	KURON H	17914	LAWSON E	20980
KILLAS S	18733	KOSTER G	22955	KURON H	17914	LAWSON E	20980
KILLION C E	20399	KOTHAVALLA Z R	19275	KURON H	17914	LAWSON E	20980
KIMBALL J H	20658	KOTHAVALLA Z R	21618	KURON H	17914	LAWSON E	20980
KIMBROUGH O	21197	KOTHAVALLA Z R	21619	KURON H	17914	LAWSON E	20980
KIMMICH O	23078	KOVACS L	20808	KURON H	17914	LAWSON E	20980
KIND W	17204	KOVACS L	20809	KURON H	17914	LAWSON E	20980
KIND W	18308	KOZLOVNIKOV E V	20812	KURON H	17914	LAWSON E	20980
KING A	17995	KOZLOVNIKOV E V	20317	KURON H	17914	LAWSON E	20980
KING A S	19542	KRAAN H	20624	KURON H	17914	LAWSON E	20980
KING B	19384	KRAFT A	22354	KURON H	17914	LAWSON E	20980
KING B	19385	KRAINZ H	16427	KURON H	17914	LAWSON E	20980
KING B	19457	KRAINZ H	16428	KURON H	17914	LAWSON E	20980
KING C G	21250	KRAINZ H	17543	KURON H	17914	LAWSON E	20980
KING C G	23435	KRAMER K	21992	KURON H	17914	LAWSON E	20980
KING C L	16569	KRAMER P J	19422	KURON H	17914	LAWSON E	20980
KING F C	17900	KRAMER T C	18451	KURON H	17914	LAWSON E	20980
KING T A	20179	KRAMER T C	19863	KURON H	17914	LAWSON E	20980
KING W V	20659	KRANEVELD F C	19565	KURON H	17914	LAWSON E	20980
KINGSBURY R M	18693	KRANEVELD F C	19566	KURON H	17914	LAWSON E	20980
KINGMAN M S	19274	KRANEVELD F C	19567	KURON H	17914	LAWSON E	20980
KIRP W	22748	KRANEVELD F C	19568	KURON H	17914	LAWSON E	20980
KIRBY R H	20579	KRAATZ F M	19845	KURON H	17914	LAWSON E	20980
KIRKPATRICK W G	22843	KRAUS G	17790	KURON H	17914	LAWSON E	20980
KIRKSEY G	18938	KRAUSE H	23226	KURON H	17914	LAWSON E	20980
KIRSCH W	19196	KRECHOW	21176	KURON H	17914	LAWSON E	20980
KISH A F	19781	KREICH M	18058	KURON H	17914	LAWSON E	20980
KISH A F	22530	KREIZINGER E J	17502	KURON H	17914	LAWSON E	20980
KISTNER H E	17538	KREISS F	19276	KURON H	17914	LAWSON E	20980
KITCHEN C W	22016	KREISS F	21116	KURON H	17914	LAWSON E	20980
KITCHEN C W	22017	KREUTZER F J	16697	KURON H	17914	LAWSON E	20980
KLAPENBACH DE SIERRA E	23224	KREUTZER F J	21377	KURON H	17914	LAWSON E	20980
KLAPPERICH H	20513	KREUTZER F J	21378	KURON H	17914	LAWSON E	20980
KLAUDE KLAUDEL M	19447	KREUTZER F J	21379	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21380	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21381	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21382	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21383	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21384	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21385	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21386	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21387	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21388	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21389	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21390	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21391	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21392	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21393	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21394	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21395	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21396	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21397	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21398	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21399	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21400	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21401	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21402	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21403	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21404	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21405	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21406	KURON H	17914	LAWSON E	20980
		KREUTZER F J	21407	KURON H	17914	LAWSON E	20980
		KREUTZER F J	2140				











ITEM		ITEM		ITEM		ITEM	
NOBLE I	23482	ORSMOND F P	21081	PEACOCK J	22551	PFALZGRAF	18760
NOBLE I	23483	ORTIGA L R	20985	PEARCE L	20047	PFEEFFER E C JP	21916
NOBLE R L	19434	ORTH A	18016	PEARCE S A	17580	PFEIFFERBERGER G W	21917
NOGLAND T R	22731	ORTIZ J B	22659	PEARCE S A	17581	PFEIFFER E	17902
NOGUEIRA A	17107	OKUEZABAL J	23343	PEARSON A W	18162	PHAFF H J	16755
NOKES E J	21640	OSBOHN T W B	22470	PEARSON F A	23340	PHAFF H J	21404
NOLLEAU J	23087	OSER R	21206	PEARSON P B	20035	PHALP V E	18447
NOLLET P	22210	OSINADO G	20160	PEARSON MRS H M	19701	PHELPS V H	18468
NOLTE H W	20822	OSSE L	21122	PEART W G	20981	PHILIP C B	20462
NORDBY J E	20142	OSSE L	21149	PEASE C H	20430	PHILIPPART J	22475
NORDEN F	23019	OSTEN O L	19877	PEASE M	19708	PHILLIP A G	23486
NORDFELDT S	20184	OSTERCAHND S	23401	PEASE M S	19655	PHILLIP8 C A	21591
NORDISKE SKOGKONGRESS	6	OSTERMEYER F	17725	PECK B T	22026	PHILLIP8 G A	17586
NORWAY 1947	18757	OSUNA P	17726	PECK E C	18586	PHILLIP8 G A H	17507
NORWISTROM L	18464	OSUNA P	17727	PECK T L C	17217	PHILLIP8 J F	23123
NORWICHAUER G	21120	OSWALD J W	16581	PEDERSEN C S	20341	PHILLIP8 J F	23124
NORMAN A	17574	OSWIN C	21359	PEDERSEN I O	22552	PHILLIP8 J F	23125
NORMAN W L	19700	OTT G L	19474	PEDERSEN M W	20408	PHILLIP8 P H	19205
NORRIS C B	18718	OTTINGER A P	17108	PEDERSEN O B	21589	PHILLIP8 P H	20230
NORRIS C B	18719	OTTO H J	21178	PEDERSEN C S	21414	PIANA G	19866
NORRIS L C	19744	OTTO W C	20958	PEDERSEN C S	22044	PIANA G	19867
NORRIS P K	23399	OTTOSSON A	22633	PEDERSEN C S	20445	PIANA G	19868
NORSENG G	18227	OUUD J	23253	PEDERSEN C S	22099	PIC M	20540
N DAK LIVESTOCK SANIT BD	19965	OUDEMANS T C	22874	PEDETTI L	23345	PIC M	20541
N DAK STATE LABS DEPT	21274	OUFOMAAGO J	23088	PEELE F E	22553	PIC M	20542
NORTHERN H T	17575	OVAZZA M	20884	PEER H M	23022	PICARD A J	22220
NORTHERN H T	17575	OVFRBECK W	21342	PEERLAMP P K	18163	PICARD J	20826
NORTHERN H T	19806	OVERDIJK K G A	18159	PEEVY A	18424	PICASSO L	23257
NORTHERN IRELAND MIN OF	21436	OVERHOLT G H	18410	PEGG S E	19364	PICHON M	16456
NORTHERN IRELAND MIN OF	21433	OVERMAN A	2471	PEI C	16455	PICHON M	16457
NORTHERN IRELAND MIN OF	22545	OVERSTREET R	18208	PEIKERT F W	18106	PICK F	18973
NORTHERN IRELAND MIN OF	22545	OWEN E M	17886	PELKA	22712	PICKERING V L	21415
NORTHERN IRELAND MIN OF	22964	OWNBEY M	20959	PELLAGATTA G G	23090	PICKFORD G D	17111
NORTHON B J	21519	OXFORD DOWN SHEEP	16453	PELLEGRIN F	16455	PIDRA M J	22306
NORTHON C	21413	OXFORD AGR ECON RES	20073	PELLETIER A T	18243	PIDRAHITA J	23258
NORTHON K B	22118	OZOUX M	23344	PELLETIER J H	17109	PIDRAHITA J	21208
NORTHON L J	22870	PAARMANN E	18968	PELLETIER F C	20409	PIEN J	21782
NORTHON R A	18135	PAARMANN E	19362	PELLISSIER F	16789	PIERANTONI U	23525
NOTDAHL W	20860	PABLO PARDO J C DE	22043	PELLIZZARI C	23091	PIERANTONI U	19869
NOTSI J	22871	PACI C	18864	PELLIZZARI C	23092	PILGRIM A F	20113
NOTSI J	23342	PACKARD C M	20839	PELLIZZARI C	22215	PILGRIM A F	21918
NOTSI J	21121	PADMANABHAN S Y	16654	PELSENKE P	22216	PINOTTI B	20220
NOTSI H	17723	PAGANI A	22214	PELZER J	21665	PINTE	20960
NOVA SCOTIA APPLE MKTG	22024	PAGANI A	23089	PENNA A	20219	PINTO E H	23551
NOVAZZI G	19289	PAGE A B P	20340	PENNERGRASS W	17110	PINTO P A	23445
NOVAZZI G	19575	PAILTHORP R R	21343	PENDERS	18019	PINQUER G	17288
NORACKI M J	16677	PAILAU ABELLA A	18969	PENDERS	18869	PINHAUX E	21783
NORAK J	17286	PALENI A	22472	PENDELBURY C L	23134	PINHO E DE	17588
NOROSAN F S	17724	PALIERI E	17401	PENDELBURY C L	22635	PINHOVA A	17589
NUGENT G R H	22546	PALM W C	20824	PENHA A M	16754	PINHOVA A	22221
NUGENT G R H	22547	PALM W E	22594	PENHA A M	19552	PISZCZEK J	17865
NUNEZ A	20956	PALMER G F	19390	PENID H M	20674	PITKIN J	17590
NUNN G	23496	PALMER R	18970	PENNINGTON M F	20675	PLACENNER J	22027
NYASLAND PROTCT VET DEPT	18966	PALMER SIR W	21914	PENNY F C	22554	PLACENNER J	20161
NYN W M	21839	PALUMBO M	21915	PENNY F C	20342	PLAKIDAS A G	16585
NUTT J D	23020	PAMPALONI E	22966	PENROSE G	22617	PLAKIDAS A G	20543
NYDEGGER W	21028	PANATTONI A	22967	PENROSE G	20692	PLANT W	18020
NYGREN A	16409	PANEK E	18720	PENROSE G	22474	PLANTER W S	18974
NYHLEN A	17796	PANNEKOEK G J	17576	PERALTA P E	17916	PLATH E	21695
NYSTROM G L	18692	PANNEKOEK G J	17577	PERCEIVAL A W	16870	PLATT C S	22555
OBBIK J B	23249	PAOLI G	20861	PERCEIVAL E G V	17844	PLATT W C	22121
OBBERFER E	16753	PAOLI P DE	18971	PEREZ J J	23524	PLAXICO J S	23023
OBBERMER E	23444	PAPER H	16582	PEREZ J J	19776	PLONKA F	19703
OBONAGA J J H	23250	PAPER R	22304	PEREZ TORO A	17728	PLONKA F	22462
OBKOGON GAVIDIA P	18185	PAPP E	19290	PERKINS B G	22876	PLUNKETT J J	19577
O BRIEN H R	20957	PAPP E	19291	PERKINS J B	21123	PLUVINAGE R	17155
OCCHIONI A	16451	PAKDEE A B	18976	PERKINS J B	18677	PNOWER G	22969
OCCHIONI P	16429	PAKDEE E O	19140	PERLASCA	19322	POCHIER A	22878
OCCHIONI P	16451	PAKEKH V M	23254	PERLATTI K	16583	POELT H	18877
OCCHOA G D	22211	PAKET L	22431	PEROTTI K	16584	POELT H	18878
OCHOTEC P	19045	PAKISI H	19885	PERKICHON A	18186	POETHKE W	17829
OCONNELL J J	19204	PAKISI O	18017	PERKINS G	21977	PIROTT P L	21592
O DE A M	21316	PAKISI O	18865	PERKINS L	21590	POISSON R	20735
ODLUM G W	19137	PAKISI O	19141	PERKRON L	23256	POLDING J B	18975
ODONNELL P E	21589	PAKISOT C	20244	PERKRON M	21317	POLDING J B	19292
ODLUM G W	20039	PAKSI B	21780	PERKRY F	17582	POLETIKA N V	18588
ODLUM G W	20040	PAKSI R	21781	PERKRY F	17583	POLEY W E	19773
OENEL F	21901	PAKSI R	21782	PERKRY F	17583	POLIAKOV I M	16586
OFLAHERTY F	22375	PAKSI R	21783	PERKRY F	17583	POLITIS H	17845
OGAWA K	22119	PAKSI R	21784	PERKRY F	17583	POLLACK E	21708
OGIER T L	18203	PAKSI R	21785	PERKRY F	17583	POLLACK E	16587
OGHADY L J	18015	PAKSI R	21786	PERKRY F	17583	POLLACK E	17591
OHANLON E	18465	PAKSI R	21787	PERKRY F	17583	POLLACK E	17365
OHIO DEPT OF AGR		PAKSI R	21788	PERKRY F	17583	POLLACK E	17730
DIV OF PLANT INDUS	21840	PAKSI R	21789	PERKRY F	17583	POLLACK E	19528
OITAVEN A V	16326	PAKSI R	21790	PERKRY F	17583	POLLACK E	20544
OKE C G	20823	PAKSI R	21791	PERKRY F	17583	POLLACK E	18413
OKLA ACAD OF SCI	23523	PAKSI R	21792	PERKRY F	17583	POLLACK E	18469
OLBERG A	18466	PAKSI R	21793	PERKRY F	17583	POLLACK E	22222
OLDENBURG C F	22548	PAKSI R	21794	PERKRY F	17583	POLLACK E	17156
OLIVA A	22212	PAKSI R	21795	PERKRY F	17583	POLLACK E	22915
OLIVE J P	18863	PAKSI R	21796	PERKRY F	17583	POLLACK E	20114
OLIVER F L	17842	PAKSI R	21797	PERKRY F	17583	POLLACK E	19974
OLIVIER L	18062	PAKSI R	21798	PERKRY F	17583	POLLACK E	17177
OLIVIER L	22965	PAKSI R	21799	PERKRY F	17583	POLLACK E	18319
OLLEA D E	21911	PAKSI R	21800	PERKRY F	17583	POLLACK E	16355
OLLEA D E	21912	PAKSI R	21801	PERKRY F	17583	POLLACK E	20249
OLSEN W	22213	PAKSI R	21802	PERKRY F	17583	POLLACK E	17219
OLSON C JR	18947	PAKSI R	21803	PERKRY F	17583	POLLACK E	19297
OLSSON B	19138	PAKSI R	21804	PERKRY F	17583	POLLACK E	19475
OLSSON G	22872	PAKSI R	21805	PERKRY F	17583	POLLACK E	19476
OLSSON L A	21678	PAKSI R	21806	PERKRY F	17583	POLLACK E	22152
OLSSON N	19769	PAKSI R	21807	PERKRY F	17583	POLLACK E	16459
OLSSON N	19770	PAKSI R	21808	PERKRY F	17583	POLLACK E	22970
OLSSON N	19771	PAKSI R	21809	PERKRY F	17583	POLLACK E	17846
OLSSON N	19772	PAKSI R	21810	PERKRY F	17583	POLLACK E	19144
OLYCHLAGER P	19139	PAKSI R	21811	PERKRY F	17583	POLLACK E	21276
OMARAN M H	22120	PAKSI R	21812	PERKRY F	17583	POLLACK E	19293
ONTARIO DEPT OF AGR		PAKSI R	21813	PERKRY F	17583	POLLACK E	22823
STALLION ENROLLMENT BD	19526	PAKSI R	21814	PERKRY F	17583	POLLACK E	19704
ONTARIO HORT ASSOC	17217	PAKSI R	21815	PERKRY F	17583	POLLACK E	19705
OOBENBRINK M	22025	PAKSI R	21816	PERKRY F	17583	POLLACK E	19706
OPFINGER F	23251	PAKSI R	21817	PERKRY F	17583	POLLACK E	19976
OPPENHEIM R	16653	PAKSI R	21818	PERKRY F	17583	POLLACK E	21275
ORANGE G E	18158	PAKSI R	21819	PERKRY F	17583	POLLACK E	20343
ORCUTT E P	20072	PAKSI R	21820	PERKRY F	17583	POLLACK E	23586
ORENSANZ WOLINE J	23400	PAKSI R	21821	PERKRY F	17583	POLLACK E	21921
ORLANDINI O	23182	PAKSI R	21822	PERKRY F	17583	POLLACK E	18976
ORLIACO C	19553	PAKSI R	21823	PERKRY F	17583	POLLACK E	21276
ORLOVSKII I A	19613	PAKSI R	21824	PERKRY F	17583	POLLACK E	22672
ORK J B	18758	PAKSI R	21825	PERKRY F	17583	POLLACK E	19293
ORK W	21913	PAKSI R	21826	PERKRY F	17583	POLLACK E	22823
ORNEIGO G	23252	PAKSI R	21827	PERKRY F	17583	POLLACK E	19704
		PAKSI R	21828	PERKRY F	17583	POLLACK E	19705
		PAKSI R	21829	PERKRY F	17583	POLLACK E	19706
		PAKSI R	21830	PERKRY F	17583	POLLACK E	19976















TORRENT J A	22572	VACHON M	20469	VITEAU R	21090	WATTS F	20972
TORRES B A	20744	VAHL E V	17295	VITELES H	23361	WAUGH R	19627
TORRES B A	20745	VAHL E VON	17355	VITTORANGELI M	23362	WAYGOOD E R	17937
TORRES R G DE LA	16602	VAITSMAAN J	19320	VIVANCOS GUERAO I	23366	WEBB F C	21806
TOSADO WSKY	23357	VAITSMAAN J	19321	VOCHELLE	21027	WEBB H W T	18179
TOSTATI R M	22578	VALDIVIA A A	19460	VODRET F	17860	WEBB K B	18180
TOTTER J R	19845	VALERANI L	20371	VOGT U	20616	WEBER A P	19495
TOURNUT J A	18903	VALERANI L	19069	VOGT R	22259	WEBER C R	17161
TOUSSAINT A	21327	VALERANI L	19162	VOLANTI U	18039	WEBER F	21539
TOUSSAINT A	22905	VALERANI L	19163	VOLANTI U	19166	WEBER W A	16341
TRACEY M V	17887	VALLANCE J G	19719	VOLANTI U	22256	WEBER W A	16348
TRAEGER H	19450	VALLE O	18892	VOLLMER A	18681	WEBLEY D M	17891
TRAEGER H	19450	VALLERJO L C	19373	VOLPINI A	20993	WEBSTER C C	17861
TRAEVERSO D	20187	VALLERJO RADOT P	19452	VOLZ E C	17639	WEBSTER W L	21044
TRAWINSKI A	19005	VALZ A M	23365	VOLZ E C	17640	WECK W H	18499
TREBING H	18353	VAN ALLSBURG E J	21363	VONDELING A	19375	WECK W H	18499
TREMBLAY A	23277	VANDEL A	20470	VOSS J	18491	WECK G	22261
TRENTIN J J	19006	VAN DER MERWE W J	19536	VOTH W	17870	WEDELI J A	20563
TRENTIN J J	19007	VANEL C	20049	VOTH W	20373	WEGEN N	17230
THEPANIER M A	18665	VAN EPPS C P	18727	VOWLES M P	20970	WEHMEYER P	19324
TREPTA E A	22364	VAN GINK C S T	20003	VRIES E DE	22908	WEIDRINGER W	19376
TRESKOR	18262	VAN HORN J L	20092	VUILLAUME R	18893	WEIGLE R N	21457
TRESCHOW C	16633	VAN KONYENBURG J	17356	VUYST DE	19322	WEIGMAN W H	21603
TRETSVEN W I	21641	VAN LANEN J M	22250			WEIMARCK H	16476
TREUMUND W	21533	VANNOTE R L	20692	WAAGSTROEM	22413	WEISS A K	19453
TREUVAN D J	19428	VANNOTE R L	20693	WACHS E F	19646	WEISS E	20165
TRI STATE PACKERS ASSOC		VAN ORMER W K	18613	WADLEY B N	16719	WEISS E	22327
TRIAU A	16727	VAN WYK J F	22610	WADOWSKI S	19626	WEISS M G	17161
TRIGONE R	18263	VAN ZANT R	23554	WADSWORTH F H	18296	WEITKAMP E	23292
TRIGG R S	21328	VARAS L L	23129	WAGENINGEN LANBOUNGE		WEITNAHER E	23292
TRIGG R S	21611	VARGAS	20614	SCHOOL 17229		WELCH D	20208
TRIOLA P DE LA	17763	VARNNEY H H	21614	WAGENINGEN PLANTEN		WELCH H	19325
TROLL C	16758	VARNNEY H R	21336	ZIEKTENKUND DIENST	20472	WELCH J H	17318
TROUBETZKOY P	16678	VASIL EV P V	18265	WAGENINGEN PLANTEN		WELCH J H	23293
TROUSDELL K B	18469	VAUGHAN C L	19374	ZIEKTENKUND DIENST	20617	WELCH J V	17139
TROUT G M	21643	VAUGHAN W UE B	18402	WAGENINGEN PLANTEN		WELCH W F	21684
TROW SMITH R	21142	VAUGHAN W L R	18766	ZIEKTENKUND DIENST	20842	WELCH W H	16494
TRUAX T H	18726	VAURIE P	21333	ZIEKTENKUND DIENST		WELCH W H	16495
TRUJILLO PELUFFO A	20363	VAUTIER J G	20561			WELLENSTEIN G	20564
TRULLINGER J D	21421	VAZQUEZ J	17637	WAGNER	20900	WELLENSTEIN G	20565
TRUMAN H A	18230	VEEN B	22486	WAGNER A W	18321	WELLENSTEIN O	21807
TRUMBLE H C	16472	VEEN B	18778	WAGNER E	18623	WELLS J B	17645
TRUMP F	18173	VEENENBOS J B	18490	WAGNER E	19597	WELLS L P	23461
TSAO C H S	21268	VEER K VAN DER	17920	WAGNER J	20747	WELLS O V	21261
TSAO S K	21534	VEER K VAN DER	22251	WAGNER J B	22258	WELLS O V	21261
TSITISAS S	18320	VEER K VAN DER	22253	WAGNON K A	18390	WELSH W H	19405
TSUNEKI K	20771	VEIGA F DE M	17137	WAGONER J A	19323	WENCKSTERN H	21337
TSUNEKI K	20772	VEIGA AGNA A	22987	WAGNER J A	22259	WENGER G	20007
TSUNODA K	18224	VEIHMEYER F J	17875	WAHAB A	22048	WENSE J VON DER	20995
TSVETO V S	19535	VEIHMEYER F J	18121	WAINWRIGHT MRS E L	17641	WENT F W	22367
TU S C	23111	VEIT F	19164	WAIT R A	22489	WENT F W	16477
TUASON A	20055	VELASO J R	22487	WAITE R C	21710	WENTWORTH L	19537
TUCKER D	21089	VELATTA M	18122	WAKEFIELD A J	22490	WENZEL	16729
TUCKER R E	23495	VELAZQUEZ E A	19012	WAKEFIELD L	19489	WENCK A JR	22759
TUFFIN H R	17764	VELDINK J G	20300	WAKELEY P C	18768	WERNHAM C C	16603
TUKKER J G	22572	VELEZ BOZA F	23460	WAKELEY M E	23296	WERNHAM C C	16681
TUNE R	17353	VELICHKIN P A	20471	WALDEN C C	22260	WERNHAM C C	22650
TUPENEVICH S M	16676	VELIZ LIZARRAGA M O	19013	WALDNER C E	22290	WERNHAM C C	18593
TURK K L	19201	VELIZ LIZARRAGA M O	19594	WALDO G F	22573	WERNHAM C C	18593
TURK K L	19213	VELLOZZO L G C	16677	WALDO G F	17374	WERNHAM C C	18593
TURK K L	19214	VELTMAN G H	21941	WALKER J K	16472	WERTH H	21262
TURK K L	21512	VENGE O	20044	WALKER D C	17642	WESCOTT C	18604
TURMAN E J	22325	VENKATAPPAH D	22421	WALKER J	18373	WEST M C	20387
TURNBULL D M	22573	VENKATAPPAH D	21643	WALKER M	17643	WEST P	17807
TURNER A W	21422	VENKATAPPAH D	20615	WALKER M	18178	WEST COAST LUMBERMENS	
TURNER C N	20992	VENKATAPPAH D	19892	WALL N J	22691	ASSOC	18538
TURNER C W	18949	VERMEULEN C	17859	WALLA H	22677	RUR OF LUMBER GRADES ASS	
TURNER C W	18950	VERMEULEN C	22677	WALLACE C R A	20229	INSP	18539
TURNER C W	19006	VERMEULEN C	21505	WALLACE J M B	16615	WESTERHOLM H A	21428
TURNER C W	19007	VERMEULEN C	20372	WALLACE M B	19720	WESTERN AUSTRALIA DEPT OF	
TURNER C W	19632	VERMEULEN C	21709	WALLACE T	18198	AGR	17140
TURNER C W	21805	VERSHOVEN W	23053	WALLIS G C	18894	WESTERN AUSTRALIA STATIS	
TURNER H D	18590	VERVACK H	22059	WALLIS G C	19235	WESTERN AUSTRALIA STATIS	
TURNER H E	21010	VERVACK H	19322	WALLS E P	22442		
TURNER W B	19191	VERVACK H	17683	WALSHE M	20618		
TURKILL W F	16444	VERVACK H	19011	WALT G P V D	19167	WESTON W A R B	16682
TUSTIN E B JR	20090	VESTAL C M	20188	WALTER L	21427	WESTON W J	23130
TUSTIN E B JR	21423	VESTAL C M	20189	WALTER R	18824	WESTROP A R	17862
TUTENBERG F	18559	VEZZANI V	20163	WALTERS M S	16468	WESTSTEIN W VON	18493
TUTTLE L A	17635	VIAL E E	21727	WALTNER E	23363	WETZEL A	18123
TUTTLE W W	23455	VIANA M J	20534	WALTON E	19014	WHANG T M	23034
TYERMAN D	21613	VIANELLO G	20228	WALTON G	21728	WHARTLEY T J	17646
TYLER W J	19355	VICINELLI P	22906	WALZER L	20971	WHEATCROFT C	17647
TYSSER H F	22816	VICINELLI P	16473	WAMPLER H H	18614	WHEELER R S	19894
TYSSER H F	22062	VICKKEY K C	20029	WAMPLER H H	18615	WHEELER R S	19157
		VIDAL E	22907	WANDALL W N	16340	WHEELER R S	20085
UBALDI L	17136	VIDAL E	21536	WANG F K C	21268	WHITE C E	20374
UBIDIA R J	19370	VIDAL E	22488	WANGAARD F F	18337	WHITE C E	18594
UGANDA FOREST DEPT	18354	VIDAL F A C	22488	WANGAARD F F	18337	WHITE D J B	22368
UHL N W	16766	VIDAL FERNANDEZ B	22690	WANGERIM A	21050	WHITE F A	16545
UHLERS J	22788	VIDAL FERNANDEZ B	22726	WANNER E	21537	WHITE H	22991
UHTHOFF M	21939	VIDAL MOHA J M	17138	WANNER E	21538	WHITE H F	17907
UITEWAAL A J A	17634	VIDAL MOHA J M	17412	WANNORP H	19015	WHITE H F	17908
ULATE G R	17857	VIEBIG J	20562	WAPLINGER A	18895	WHITE H F	17909
ULLIVARRI R F DE	17174	VIEIRA L M	22661	WAND A L	18896	WHITE T	21340
ULLMANN	19008	VIERI F	22988	WAND G W A	19893	WHITE W L	16530
ULMER G	22326	VIERI F	23031	WAND W	21944	WHITEWALL C K	20230
ULRICH A	17886	VIERI F	23112	WAND W	17413	WHITEWALL W L	22581
UNDERWOOD E J	20080	VIERI F	23113	WAND W	16678	WHITEHEAD E L	17233
UNDERWOOD J C	21997	VIERI F	23114	WAND W	16679	WHITEHEAD M D	16683
UNERTL F	21329	VIERI F	23115	WAND W	17628	WHITEHEAD S B	17398
UNGER A	21215	VIERI F	20840	WAND W	18592	WHITEHEAD S B	17356
UNION OF 80 AFRICA OFF		VIGGIANI G	23116	WAND W	21260	WHITEHEAD S B	18040
OF CENSUS AND STATIS		VIGGIANI G	19595	WAND W	20004	WHITEHEAD S B	18041
	21439	VIGGIANI G	22473	WAND W	22577	WHITING F	18897
UNION SUISSE DU COM ET		VIGNAULT M	23291	WAND W	22578	WHITING M W	16365
DE L INDS VORORT	21258	VILLAFANE A	22989	WAND W	22579	WHITLOCK R H	17938
UNITED COOP FARMERS	23358	VILLAFANEVA J	19596	WAND W	23033	WHITMAN O H	20432
UNITED PROVINCES DEPT OF		VILLEGAS V	19165	WAND W	17644	WHITNEY T P	18267
AGR	21940	VILLEGAS V	20081	WAND W	19845	WHITNEY J H	19245
UNITED PROV DEPT OF AGR		VILLEGAS ARANGO E	20417	WAND W	20005	WHITTE J H	19403
	22248	VILLEGAS ARANGO E	20418	WAND W	18825	WHITTLE T E	19789
U S COUNCIL OF ECON ADV		VILLEGAS ARANGO E	20419	WAND W	21998	WHITTLESTON W G	20996
	21385	VILLIERS A	18728	WAND W	19650	WIBIRAL E	17648
U S PAT OFF	17317	VILLIERS A	20746	WAND W	16350	WICKMAN H	20843
U S PAT OFF	17354	VINACKE W R	22254	WAND W	16474	WICKMAN H	20843
U S PAT OFF	17419	VINAS W DE LAS	21987	WAND W	20619	WICKMANS A J	22692
U S PAT OFF	17635	VINCENT S	17638	WAND W	17806	WICKMANS A J	22692
U S PLANT SOIL AND NUTR		VINCENT W H	23032	WAND W	19430	WICKMANS A J	22692
LAB	20091	VINE V	19787	WAND W	16680	WICKWARE A B	19895
UPDIKE R L JR	20300	VINKENVLEUGEL J	23360	WAND W	20030	WIDIEZ F	22049
UPHOLT W M	20639	VINOT G	17296	WAND W	20031	WIECKO E	18540
URIBE ESCOBAR G	21535	VINTEJOUX M	20841	WAND W	21644	WIEGAND E H	21544
URIBE ROMO E	21259	VIRA R	23538	WAND W	19042	WIEGAND E H	21544
URQUHART P J	20002	VIRTA A A	21426	WAND W	23004	WIEGAND E H	21544
USINGER H L	20370	VISOCCHI V	23117	WAND W	16475	WIEGAND E H	21544
USUELLI F	19161	VISANATHAN D K	20694	WAND W	22666	WIGGLESWORTH V B	20748
UTSCHER K	17919	VITAS G	18767	WAND W	18412	WILCOX R S	17649
UYAROV B P	20867			WAND W	22580	WILCOX W W	22693
				WAND W	22398	WILCZYNSKA H	19384



ITEM	ITEM	ITEM	ITEM
WILCZINSKA H	WINNER E B	WORD L	OURGA F J
WILDEMAN D NF	17863 WINNIGSTEDT	WORD L	21429
WILHARM G	17863 WINNIGSTEDT H	WORD L	21811
WILHARM G	17863 WINNIGSTEDT H	WORD L	16688
WILHELM S	17863 WINNIGSTEDT H	WORD L	21264
WILKE F	17863 WINNIGSTEDT H	WORD L	19430
WILKENS E B F	17863 WINNIGSTEDT H	WORD L	17866
WILKINS H G F	17863 WINNIGSTEDT H	WORD L	16689
WILKINSON J M F	17863 WINNIGSTEDT H	WORD L	23294
WILLARD H	17863 WINNIGSTEDT H	WORD L	22005
WILLCOX O W	17863 WINNIGSTEDT H	WORD L	18998
WILLIE E	17863 WINNIGSTEDT H	WORD L	16481
WILLIE R	17863 WINNIGSTEDT H	WORD L	19171
WILLIAMS A	17863 WINNIGSTEDT H	WORD L	19339
WILLIAMS A D H	17863 WINNIGSTEDT H	WORD L	18543
WILLIAMS DE BR	17863 WINNIGSTEDT H	WORD L	21617
WILLIAMS F R	17863 WINNIGSTEDT H	WORD L	19599
WILLIAMS G L F	17863 WINNIGSTEDT H	WORD L	19018
WILLIAMS K L F	17863 WINNIGSTEDT H	WORD L	18213
WILLIAMS L O S	17863 WINNIGSTEDT H	WORD L	20151
WILLIAMS S S G	17863 WINNIGSTEDT H	WORD L	23497
WILLIAMSON G	17863 WINNIGSTEDT H	WORD L	21711
WILLIS J H	17863 WINNIGSTEDT H	WORD L	21812
WILLIS J H	17863 WINNIGSTEDT H	WORD L	16732
WILLIS J P	17863 WINNIGSTEDT H	WORD L	17768
WILLMAN J P	17863 WINNIGSTEDT H	WORD L	19490
WILLNER G	17863 WINNIGSTEDT H	WORD L	17414
WILLONCHBY C R	17863 WINNIGSTEDT H	WORD L	18495
WILLONCHRY R	17863 WINNIGSTEDT H	WORD L	21265
WILLSON F S	17863 WINNIGSTEDT H	WORD L	18496
WILLSON F S	17863 WINNIGSTEDT H	WORD L	18661
WILMANN W	17863 WINNIGSTEDT H	WORD L	18356
WILSON E	17863 WINNIGSTEDT H	WORD L	20568
WILSON E	17863 WINNIGSTEDT H	WORD L	20569
WILSON G H	17863 WINNIGSTEDT H	WORD L	22407
WILSON J E	17863 WINNIGSTEDT H	WORD L	20570
WILSON J E	17863 WINNIGSTEDT H	WORD L	20265
WILSON J F	17863 WINNIGSTEDT H	WORD L	20420
WILSON J W B	17863 WINNIGSTEDT H	WORD L	18899
WILSON K	17863 WINNIGSTEDT H	WORD L	20571
WILSON M	17863 WINNIGSTEDT H	WORD L	22329
WILSON R	17863 WINNIGSTEDT H	WORD L	18374
WILSON R F	17863 WINNIGSTEDT H	WORD L	17299
WILSTER G H	17863 WINNIGSTEDT H	WORD L	23139
WILSTER G H	17863 WINNIGSTEDT H	WORD L	18900
WILTZER A	17863 WINNIGSTEDT H	WORD L	19043
WIND E J	17863 WINNIGSTEDT H	WORD L	19217
WINDISCH F	17863 WINNIGSTEDT H	WORD L	19378
WINE INST	17863 WINNIGSTEDT H	WORD L	20750
WINKLER H	17863 WINNIGSTEDT H	WORD L	22586
		WORD L	20572
		WORD L	17143
		WORD L	21182
		WORD L	18181
		WORD L	21989
		WORD L	22050
		WORD L	17656
		WORD L	17357
		WORD L	16662



110  
3471

LIBRARY  
RECEIVED  
U.S. DEPARTMENT OF AGRICULTURE  
WYNDMOOR BRANCH

# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 13 of the Bibliography of Agriculture will appear as number 12 of volume 13, the issue of December 1949.

United States Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications, is followed in this publication with the exception of the following: B.—Bulletin; C.—Circular; J.—Journal; P.—Publication; Q.—Quarterly; U.—University; U. S. D. A.—United States Department of Agriculture; Ybk.—Yearbook; Z.—Zeitschrift.

Items marked with an asterisk (\*) are ordinarily available in microfilm or photoprint only. Items marked with two asterisks (\*\*) have not been verified.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library at the following prices:

**MICROFILMS:**

Periodical Articles.—A flat charge of 50 cents for any single article, from any single volume of a periodical.

Books and Serial Publications.—50 cents for each 50 pages or fraction thereof.

**PHOTOPRINTS:**

50 cents for each 5 pages of text or fraction thereof.



UNITED STATES DEPARTMENT OF AGRICULTURE

LIBRARY

BIBLIOGRAPHY OF AGRICULTURE

Vol. 13

April 1949  
Items 23590-32724

No. 4

CONTENTS

	Item		Item		Item
Plant Science	23590-25709	Materials for Soil Improvement		Veterinary Medicine	26776
Systematic and Geographic			26114	Miscellaneous	26897
Botany	23680	Primary Materials	26129	Cattle	26949
Spermatophytes	23690	Secondary and Minor Element		Breeds and Breeding	26949
Bryophytes	23762	Materials	26137	Feeds and Feeding	27082
Algae	23772	Mixed Fertilizers and Fertilizer		Veterinary Medicine	27126
Fungi and Lichens	23789	Technology	26140	Miscellaneous	27258
Pathology	23811	Fertilizer Statistics	26148	Dogs and Cats	27318
Fungus Diseases	23904	Mineral Soil Amendments	26164	Breeds and Breeding	27318
Bacterial Diseases	24075	Manures and Composts	26167	Feeds and Feeding	27345
Virus Diseases	24098	Forestry	26197-26678	Veterinary Medicine	27348
Nematodes	24157	Economics and Policy	26197	Miscellaneous	27417
Ecology	24173	Legislation	26235	Fur Animals - Pen Raised	27445
Morphology, Anatomy, and		Description and Resources	26241	Breeds and Breeding	27445
Cytology	24197	Individual Genera	26271	Feeds and Feeding	27447
Genetics	24291	Forest Administration and		Veterinary Medicine	27453
Physiology	24330	Management	26284	Miscellaneous	27465
Biochemistry	24551	Farm Woodlands	26318	Horses and Mules	27486
Field Crops	24597	Mensuration	26332	Breeds and Breeding	27486
Cereals	24617	Forest Protection and Damage		Feeds and Feeding	27520
Fiber Crops	24678		26343	Veterinary Medicine	27523
Forage and Grasses	24711	Fire	26348	Miscellaneous	27583
Oil Crops	24823	Meteorological Injuries	26365	Laboratory Animals, Small	27601
Sugar Crops	24846	Silviculture	26366	Breeds and Breeding	27601
Tobacco	24869	Lumbering	26425	Veterinary Medicine	27602
Horticultural Crops	24874	Equipment	26425	Miscellaneous	27605
Fruits	24949	Logging	26444	Poultry	27609
Citrus and Subtropical	25018	Lumber Industry	26456	Breeds and Breeding	27609
Deciduous	25044	Sawmills	26492	Feeds and Feeding	27677
Small	25080	Wood Technology	26502	Veterinary Medicine	27727
Nuts	25132	Preservative Treatment	26511	Miscellaneous	27821
Shade Trees and Ornamental		Properties and Structure	26521	Rabbits	27931
Plants	25141	Seasoning, Conditioning, and		Breeds and Breeding	27931
Vegetables	25458	Finishing	26535	Feeds and Feeding	27951
Weeds and Poisonous Plants	25580	Forest Products	26554	Veterinary Medicine	27953
Miscellaneous	25637	Building Construction	26587	Miscellaneous	27974
Soils and Fertilizers	25710-26196	Charcoal	26591	Sheep and Goats	27986
Soil Science	25710	Containers	26594	Breeds and Breeding	27986
Soil Physics	25715	Furniture	26600	Feeds and Feeding	28021
Soil Chemistry	25731	Naval Stores	26602	Veterinary Medicine	28030
Soil Biology	25755	Pulp and Paper	26607	Miscellaneous	28075
Soil-Plant-Animal Relation-		Tanning Material	26623	Swine	28101
ships	25774	Veneers, Plywood, and Adhesives		Breeds and Breeding	28101
Soil Genesis, Formation,			26624	Feeds and Feeding	28120
Classification, and Mapping	25790	Wood as Fuel	26645	Veterinary Medicine	28139
Soil Management	25805	Miscellaneous	26649	Miscellaneous	28175
Soil Fertility	25820	Education	26659	Entomology	28190-29283
Tilth and Tillage	25968	Forest Engineering	26668	General - Economic	28227
Drainage, Irrigation, Water		Forest Influences	26673	Apiculture and Apis Mellifera	
Supply, etc.	25981	Wildlife	26676		28387
Erosion and Control	26038	Animal Industry	26679-28189	Colony Management	28526
Sanitation	26106	Breeds and Breeding	26679	Arachnida, etc.	28573
		Feeds and Feeding	26699	Coleoptera	28639

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Diptera	28754	Distribution, etc.	29750	Income	31511
Culicidae	28861	Grading, etc.	29799	Inflation	31518
Hemiptera	28913	Packing and Packaging	29811	Insurance	31520
Hymenoptera	29013	Prices, etc.	29830	Taxation	31537
Lepidoptera	29065	Processing and Storage	29866	Agricultural Labor and Wages	
Orthoptera	29190	Statistics	29941		31557
Sericulture and the Silkworm	29222	Beverages and Condiments	29986	Agriculture - Situation, Policies	
Smaller Orders	29229	Dairy Products	30084	and Programs	31597
Agricultural Engineering	29284-	Analysis and Composition	30181	Subsidies	31787
	29681	Consumption, etc.	30243	Cost and Standard of Living	31790
General and Miscellaneous	29284	Distribution, etc.	30251	Farm Management and Land	
Machines and Equipment	29303	Grading, etc.	30282	Economics	31792
Animal Husbandry	29366	Packing and Packaging	30310	Bookkeeping and Records	31906
Cultivation and Tillage	29397	Prices, etc.	30314	Costs and Returns	31910
Fertilizer and Seed Distributors		Processing and Storage	30324	Land Settlement and Colonization	
	29405	Statistics	30418		31956
Harvesting	29406	Feed and Forage Crops	30422	Land Tenure	31965
Land Clearing	29429	Fibers and Textiles	30454	Land Utilization	32044
Processing Equipment Used on		Fruits, Vegetables, and Nuts	30637	Land Values, etc.	32069
the Farm	29432	Analysis and Composition	30703	Population	32078
Repair, Maintenance, and Con-		Consumption, etc.	30717	Rural Social Organization	32092
struction	29451	Distribution, etc.	30723	Human Ecology	32108
Spraying and Dusting	29463	Grading, etc.	30758	Institutions	32121
Vehicles	29480	Packing and Packaging	30768	Rural Organizations and	
Structures and Rural Housing	29524	Prices, etc.	30774	Movements	32272
Animal Shelters and Service		Processing and Storage	30780	Rural Social Psychology	32357
Buildings	29534	Statistics	30853	Trade, Foreign and International	
Farmhouses and Farmsteads		Grain and Grain Products	30866		32359
	29583	Honey and Beeswax	30969	Food and Human Nutrition	32457-
Greenhouses and Plant Service		Livestock and Livestock Products			32532
Buildings	29600		30985	Food Habits	32497
Materials and Methods	29608	Analysis and Composition	31067	Nutritive and Vitamin Content	
Storage Structures	29611	Distribution, etc.	31070		32498
Walls and Fences	29618	Grading, etc.	31099	Miscellaneous	32533-32724
Utilities	29625	Packing and Packaging	31110	History and Biography	32607
Electricity and Electrification		Prices, etc.	31111	Home Management	32657
	29625	Processing and Storage	31120	International Relations	32669
Heating, Lighting, and Radiation		Statistics	31146	Meteorology	32676
	29653	Oils and Oilseeds	31154	Research	32691
Power Plants, Motors and		Poultry and Poultry Products	31249	Statistics	32717
Engines	29659	Rubber and Rubber Substitutes		U. S. D. A. Publications	p. 189
Sewage and Waste Disposal	29662		31332	State Agr. Expt. Sta. Publications	
Telephones	29664	Seeds	31351		p. 194
Water Supply	29665	Sugar and Sirups	31376	State Agr. Ext. Serv. Publications	
Agricultural Products: Processing,		Tobacco	31414		p. 198
Distribution, and Statistics	29682-	Miscellaneous Products	31433	AUTHOR INDEX	p. 203
	31447	Agricultural Economics and Rural			
Analysis and Composition	29730	Sociology	31448-32456		
Consumption, etc.	29740	Agricultural Finance	31467		
		Credit	31477		



## PLANT SCIENCE

## GENERAL

- 23590 AINSLIE, M. D. Plants and animals of tropical Africa, a manual for schools. London, United Soc. for Christian Lit., 1948. 192 p. 409 A16
- 23591 ALTHAUS, H. C. Seeds with overcoats! Pelletizing allows precise planting with seeds. South. Seedsman 12(2): 13, 40-41. Feb. 1949. 61.8 So8
- 23592 ARCANGELI, G. The plant world in planetary life. (In Italian.) Terra [Firenze] 59(41): 3. Oct. 10, 1948. 16 T274  
Existence of a soul in plants.
- 23593 ARTAUD. Le paysan et les plantes. Terre d'Oc 30: 413-417. Oct. 1948. 14 Ar5  
Need for research.
- 23594 BAILEY, I. W. Origin of the angiosperms: need for a broadened outlook. Arnold Arboretum. J. 30: 64-70. Jan. 1949. 451 Ar6J
- 23595 BAILEY, J. H., and CAVALLITO, C. J. Antibiotics. Ann. Rev. Microbiol. 2: 143-182. Ref. 1948. 448.3 An72
- 23596 BALLESTEROS VIGURIA, L. El derecho de los animales y las plantas a ser protegidos. Nuestros Amigos 5(52): 10-11. Sept. 1948. 48.8 N88
- 23597 BANERJI, J. The Tamur Valley expedition. Indian Forester 74: 96-101. Mar. 1948. 99.8 In2  
Vegetation.
- 23598 BARGHOORN, E. A., and SPACKMAN, W., JR. A preliminary study of the flora of the Brandon lignite. Amer. J. Sci. 247: 33-39. Ref. Jan. 1949. 470 Am34
- 23599 BARNES, V., JR. La Peninsula de La Go-gira, Venezuela. Rev. de Agr. de Puerto Rico 39(1): 53-71. Jan./June 1948. 8 R325  
Includes vegetation.
- 23600 BARTOO, H. V. K. Notes on Mississippian plant fossils from the Berea Quarry, Berea, Ohio. (Abs.) Amer. J. Bot. 35: 805. Dec. 1948. 450 Am36
- 23601 BLICKLE, A. H. The American Psaroniae. (Abs.) Amer. J. Bot. 35: 805. Dec. 1948. 450 Am36
- 23602 BOTANICAL SOCIETY OF THE BRITISH ISLES. Prospectus. London, 1948. 5 p. 451 B658P
- 23603 BOTANICAL SOCIETY OF THE BRITISH ISLES. Report 1946/47. Bot. Soc. & Exch. Club Brit. Isles. Rpt. 13: 187-376. 1948. 451 B653
- 23604 BOWERS, R. D. How to divide a tree without killing it, or going to jail, or both. Home Gard. 12(2): 68-71. Aug. 1948. 80 H756
- 23605 BRIAN, P. W. Studies on the biological activity of griseofulvin. Ann. Bot. [London] (n. s.) 13: 59-77. Ref. Jan. 1949. 450 An7
- 23606 BROWNELL, L. W. Photographing our native orchids. Amer. Photog. 43(1): 51-54. Jan. 1949. 332.8 Am3
- 23607 BROWNELL, L. W. Winter work for the nature photographer. Amer. Photog. 43(2): 114-117. Feb. 1949. 332.8 Am3  
Plants.
- 23608 CHANEY, R. W. The redwood of China. Plants & Gard. (n. s.) 4: 231-235. Winter 1948. 450 P694
- 23609 CHATTERJEE, D. Royal Botanic Gardens, Kew. Sci. and Cult. 12: 414-418. Mar. 1947. 475 Sci24
- 23610 CHATTERJEE, D. Validating botanical names by reference to pre-1753 literature. Arnold Arboretum. J. 30: 71-74. Jan. 1949. 451 Ar6J
- 23611 CRANE, M. B. Lysenko's claims lack evidence. Grower 31: 113, 115, 117. Jan. 15, 1949. 286.83 M34  
Plant breeding.
- 23612 DALLIMORE, W. The Royal Botanic Gardens, Kew. Arboretum B. 11: 5-6, 30. Winter 1948. 451 Ar1
- 23613 DAWSON, E. Y. A naturalist's diary on the Mexican West Coast. I-II. Cactus & Succulent J. 20: 161-165, 177-180. Nov.-Dec. 1948. 451 C11
- 23614 DELECTUS seminum quae Hortus Botanicus Bruxellensis pro mutua commutatione offert anno 1948. Brussels. Jard. Bot. de l'État. B. 19(sup. 1), 11 p. Dec. 1948. 451 B83B
- 23615 EGYPT. MINISTRY OF AGRICULTURE. Selected seeds. Cairo, 1948. 8 p. 61 Eg9
- 23616 ETTER, H. Vegetationskarte des Sihlwaldes der Stadt Zürich. Schweiz. Forstver. Z. Beih. 24, 22 p. Ref. 1947. 99.8 Sch9B
- 23617 EYSTER, W. H. Botany for the gardener. 14-15. Organic Gard. 14(1): 32-38; (2): 18-19. Jan.-Feb. 1949. 56.8 Or3
- 23618 FREE, M. Ward, the man who put the greenhouse in the parlor. Home Gard. 12(2): 77-82. Aug. 1948. 80 H756
- 23619 GAUMANN, E., and ARX, A. VON. Antibiotica als pflanzliche plasmagifte. II. Schweiz. Bot. Gesell. Ber. 57: 174-183. Ref. 1947. 451 Sch9
- 23620 GEETE, E. On our aged pine trees; the Svärdsjötallen has Scandinavian record. (In Swedish.) Skogsägaren 24: 232-233. Nov. 1948. 99.8 Sk55
- 23621 GILLISSEN, G. Élaboration d'antibiotiques par des moisissures végétant sur un milieu pauvre substitué au milieu nutritif. Paris. Acad. des Sci. Compt. Rend. 227: 1164-1166. Nov. 29, 1948. 505 P21
- 23622 HAAS, O. Precedence of modern plant names over names based on fossils? Science 109: 18-19. Jan. 7, 1949. 470 Sci2
- 23623 HAMILTON, E. L. Stem surface area determination of nomograph. J. Forestry 47: 57. Jan. 1949. 99.8 F768
- 23624 HERRICK, J. A. Kodachromes and the teaching of local flora. Turtox News 27: 30-31. Jan. 1949. 442.3 T86
- 23625 HILL, E. C. Conservation. Gard. Gossip 24: 14-15. Jan. 1949. 80 G1625  
Trees, shrubs, flowers.
- 23626 HOCKENHULL, D. J. D. Studies in penicillin production by *Penicillium notatum* in surface culture. 2. Biochem. J. 43: 498-504. Ref. 1948. 382 B52
- 23627 HODGE, W. H. The Goliath of seeds. Nat. Hist. 58: 34-35. Jan. 1949. 500 N483J  
Lodoicea maldivia.
- 23628 HULL, MRS. L. M. Seeds of Peace. Flower Grower 36: 48, 58-59. Jan. 1949. 80 M72
- 23629 HURTADO DE MENDOZA, F. Aureomicina. Veterinaria 12: 747-749. Nov. 1948. 41.8 V6429
- 23630 INSTITUT PASTEUR DE LA GUYANE FRANÇAISE ET DU TERRITOIRE DE L'ININI. Rapport sur le fonctionnement technique...pendant l'année 1946. Cayenne, 1947. 168 p. 448.9 In77R  
By H. Floch, directeur.  
Includes reports on botanical and entomological projects.
- 23631 KNOX, A. S. A late glacial and postglacial chronology for eastern New England. (Abs.) Amer. J. Bot. 35: 805. Dec. 1948. 450 Am36  
Pollen analysis.
- 23632 KOSANKE, R. M. Late paleozoic winged pre-pollen and pollen. (Abs.) Amer. J. Bot. 35: 805-806. Dec. 1948. 450 Am36
- 23633 KOVAR, A. Ideas generales de la vegetación de El Salvador. Rev. de Agr. Trop. [Salvador] 14(25): 1-4. 1947. 8 R326
- 23634 LAZENBY, K. G. Flora Alpina of Linnaeus. Alpine Gard. Soc. Q. B. 16: 330-331. Dec. 1948. 84 AL6
- 23635 LEANZA, A. F. Los bosques petrificados de Santa Cruz. Soc. Cient. Argentina. An. 146: 174-188. Sept. 1948. 516 Sol
- 23636 LEE, F. P. The National Arboretum. Gard. Club Amer. B. (ser. 11) 12: 13-15. Jan. 1949. 90.32 G16
- 23637 LEMEE, G. La méthode de l'analyse pollinique et ses apports à la connaissance des temps quaternaires. Ann. Biol. [Paris] (ser. 3) 24: 49-75. Ref. Feb. 1948. 442.8 An7  
Also in Strassburg. U. Inst. Bot. Sér. Phytosociol. et Pédol. 2: 49-75. Ref. 1948. 451 St82
- 23638 LINDSEY, A. A. A tree-trunk squeeze-up in lava. Science 109: 42. Jan. 14, 1949. 470 Sci2
- 23639 MACGINITIE, H. D. Ruppia balls. Sci. Monthly 68: 74. Jan. 1949. 470 Sci23  
With a note by C. E. Thorp.
- 23640 MADGE, K. The world of living green. London, Lutterworth, 1947. 120 p. 409.5 M26
- 23641 MASSEY, A. B. Mistletoe and folklore. Va. Wildlife 9(12): 12, 22. Dec. 1948. 410 V81
- 23642 MENDES, E. J., and MONTEIRO, R. Pollen-tubes permanent whole mounts: iron acetocarmine II. Portugaliae Acta Biol. (ser. A) 2: 97-100. Ref. 1948. 442.8 P83



- 23643 MISSOURI BOTANICAL GARDEN. Sixtieth annual report of the director. Mo. Bot. Gard. B. 37: 1-32. Jan. 1949. 451 M69B
- 23644 MOSCOW. OBSHESTVO ISPYTATELEI PRI-RODY. Ocherki po istorii russkoj botaniki [Essays on the history of botany in Russia]. Moskva, 1947. 318 p. 459.2 M85  
By L. P. Breslavets, B. L. Isachenko, N. A. Komarni-fskij, S. I. Lipshits, and N. A. Maksimov.
- 23645 MULLIGAN, B. O. The Arboretum in the fall. Arboretum B. 11: 1-4, 33-34. Winter 1948. 451 Ar1  
University of Washington.
- 23646 NEDERLANDSCHE DENDROLOGISCHE VEREENIGING. Zestiende jaarboek [Sixteenth yearbook] 1947. (In Dutch.) Wageningen, 1947. 132 p. 99.9 N28  
Yearbook of the Dutch Dendrological Association.
- 23647 O'NEALE, L. M. Embroideries of the early Nazca period and the crop plants depicted on them. Southwest. J. Anthropol. 3: 294-321. Winter 1947. 304 On2E
- 23648 OTT, J. N. You see plants grow by time-lapse photography. Flower Grower 36: 40-41, 62. Jan. 1949. 80 M72
- 23649 PENNSYLVANIA. DEPT. OF FORESTS AND WATERS. Hemlock, the state tree of Pennsylvania. Harrisburg, 1948. 32 p. 99.35 P38
- 23650 PEYRONEL, B. Fossil pollen. (In Italian.) Sci. e Lav. 3: 184-185. Oct. 1948. 475 Sci27
- 23651 PLANT types in the Herbarium of the California Academy of Sciences. Wasmann Collect. 7: 169-174. (To be cont.) Dec. 1948. 442.8 W28
- 23652 PONCE DE LEÓN Y AYMÉ, A. Una excursión a Cardenas efectuada por alumnos y profesores de las Escuelas de Ciencias y de Agronomía de la Universidad de la Habana, durante los días 15 y 16 de mayo de 1948. Habana? 1948. 21 p. 125 P77
- 23653 PRESCOTT, J. A. Australia's special interest in plant introduction. Austral. Inst. Agr. Sci. J. 14: 102-103. Sept. 1948. 23 Au74
- 23654 PURI, G. S. The flora of the Karewa series of Kashmir and its phytogeographical affinities with chapters on the methods used in identification. Indian Forester 74: 105-122. (To be cont.) Mar. 1948. 99.8 In2
- 23655 QUEENSLAND ACCLIMATISATION SOCIETY. Annual report, 82, 1947/48. Brisbane, 1948. 8 p. 410.9 Q3R
- 23656 REALINO, M. Plantkunde van Curaçao voor M. U. L. O. Ed. 2. Curaçao, St. Augustinus, 1947. 188 p. 456.3 R222
- 23657 ROBERSON, F. K. Alladin's lamp. Northwest Gard. & Home 16(11): 6, 35. Jan. 1949. 80 N813  
Vegetation in Washington.
- 23658 ROUSSEAU, J. Ethnobotanique abénakise. Montreal. Jard. Bot. Mém. 1946/48(2): 17-54. Ref. 1948. 451 M765M
- 23659 ROUSSEAU, J. Ethnobotanique et ethnozoologie gaspésiennes. Montreal. Jard. Bot. Mém. 1946/48(2): 55-68. 1948. 451 M765M
- 23660 ROUSSEAU, J. Notes sur l'ethnobotanique d'Anticosti. Montreal. Jard. Bot. Mém. 1946/48(2): 5-16. 1948. 451 M765M
- 23661 RUÍZ SÁNCHEZ, F., and RUÍZ SÁNCHEZ, A. Aureomicina, un nuevo agente antibiótico. Medicina; Rev. Mex. 29: 32-38. Ref. Jan. 25, 1949. 448.8 M4693
- 23662 SALDIAS, M. O. La palma caranday [Trithrinax campestris] cede terreno a la agricultura. Chacra 19(218): 78-79. Dec. 1948. 9 C34
- 23663 SALISBURY, SIR E. The Royal Botanic Gardens, Kew. Roy. Soc. London. Proc., Ser. B. Biol. Sci. 135: 419-429. Dec. 14, 1948. 501 L84B
- 23664 SCHEMEL, M. P. Carboniferous plant spores from Utah. (Abs.) Amer. J. Bot. 35: 806. Dec. 1948. 450 Am36
- 23665 SCOTT, D. Preparing seedlings for study of germination and root structure. Turtox News 26: 278-279. Dec. 1948. 442.8 T86
- 23666 SHANKARMURTHY, P., and SIDDIQUI, S. Antibiotic activity of leaf extracts of Prosopis juliflora. J. Sci. & Indus. Res. 7B: 188. Nov. 1948. 475 J82
- 23667 SHRUBSHALL, A. H. What is a shamrock? The answer is not so easy as it seems. New Zeal. Gard. 5: 267-269. Dec. 1, 1948. 80 N4822
- 23668 SINSKAJA, E. N. Dinamika vida [Dynamics of the species]. Moskva, Sel'khozgiz, 1948. 525 p. 463.67 Si6
- 23669 TEUSCHER, H. The botanic gardens of Melbourne, Australia. Parks & Recreation 32: 110-115. Feb. 1949. 98.8 P23
- 23670 VERDOORN, F. The future of exotic cryptogamic botany. (Abs.) Amer. J. Bot. 35: 816-817. Dec. 1948. 450 Am36
- 23671 VESTAL, P. A. General remarks on the ethnobotany of the Ramah Navaho. (Abs.) Amer. J. Bot. 35: 798. Dec. 1948. 450 Am36
- 23672 WAIT, L. H. Fairchild Tropical Garden—the first ten years. New York, Ronald Press Co., 1948. 381 p. 451.1 F16
- 23673 WAKSMAN, S. A. Antibiotics. Cambridge Phil. Soc. Biol. Rev. 23: 452-487. Ref. Oct. 1948. 442.9 C14
- 23674 WARD, F. K. Spring on Sirhoi. Gard. Chron. 125: 4-5, 12-13. (Cont.) Jan. 1-8, 1949. 80 G162  
Eastern Manipur, Assam, India.
- 23675 WARREN, C. H. Ruskin among the wild flowers. Nature Lover 5: 523-525. Dec. 1948. 410 N218
- 23676 WILKINS, W. H. Investigation into the production of bacteriostatic substances by fungi. Preliminary examination of the ninth 100 species, all Basidiomycetes. Brit. J. Expt. Path. 29: 364-366. Oct. 1948. 448.8 B772
- 23677 WILSON, C. L. The telome theory and the origin of the flower. (Abs.) Amer. J. Bot. 35: 806. Dec. 1948. 450 Am36
- 23678 WOLF, F. T. Amino acids in the biosynthesis of penicillin. (Abs.) Amer. J. Bot. 35: 804. Dec. 1948. 450 Am36
- 23679 ZABALA, S., and TRAVERSI, B. Obtención en serie de plantas de papa, a partir de un solo tuberculo, en invernáculo. Argentina. Inst. de Sanid. Veg. [P.] Ser. B 4(13), 14 p. 1948. 464.9 Ar323P  
French summary.  
Propagation for experimental use.

## SYSTEMATIC AND GEOGRAPHIC BOTANY

## General

- 23680 BALL, C. R. Plant taxonomy: what and whither? (Abs.) Amer. J. Bot. 35: 815. Dec. 1948. 450 Am36
- 23681 BERTSCH, K., and BERTSCH, F. Flora von Württemberg und Hohenzollern. Ed. 2. Stuttgart, Wissenschaftliche Verlagsgesellschaft, 1948. 485 p. 459.3 B462
- 23682 BOIVIN, B. Centurie de plantes canadiennes. II. Nat. Canad. 75: 202-227. Aug./Oct. 1948. 410 N216
- 23683 DAVIS, J. H., JR. Botanical features of the Everglades National Park, Florida. (Abs.) Amer. J. Bot. 35: 791. Dec. 1948. 450 Am36
- 23684 FRIES, R. E., and FRIES, T. C. E. Phytogeographical researches on Mt. Kenya and Mt. Aberdare, British East Africa. Svenska Vetenskapsakad. Handl. (ser. 3) 25(5), 83 p. Ref. 1948. 502 St6H
- 23685 GAUBA, E. Contributions to the flora of South Australia. I. Victorian Nat. 65: 109-113. Sept. 1948. 410 V66
- 23686 JAKUES, H. E. Plant families, how to know them; pictured-keys for determining the families of nearly all of the members of the entire plant kingdom. Ed. 2. Dubuque, Iowa, Brown, 1948. 177 p. 452 J27
- 23687 MOUL, E. T. The flora of Penikese, seventy-four years after. IV. Flora of Penikese Island. Rhodora 50: 288-304. Dec. 1948. 450 R34
- 23688 SMITH, A. C. An ascent of Koroyanitu. Natl. Acad. Sci. Proc. 34: 579-585. Dec. 1948. 500 N21P  
Flora of mountain in Fiji.
- 23689 WATERFALL, U. T. Some results of a summer's botanizing in Oklahoma. Rhodora 51: 18-28. Feb. 1949. 450 R34

## Spermatophytes

- 23690 ALLRED, B. W. Distribution and control of several woody plants in Texas and Oklahoma. J. Range Mangt. 2: 17-29. Ref. Jan. 1949. 60.18 J82
- 23691 ARTZ, L. Notes on four Virginia plants. Rhodora 51: 12. Jan. 1949. 450 R34
- Fraxinus nigra, Cypripedium reginae, Liparis loeselii, and Utricularia gibba.
- 23692 BAILEY, L. H. Jottings in the Cucurbitas. Gentes Herb. 7: 447-477. Dec. 1948. 450 B15



- 23693 BAKER, M. S. Studies in western violets. IV. Leaflets West. Bot. 5: 141-147. Jan. 14, 1949. 450 L47
- 23694 BARKLEY, F. A. Lista de los ordenes y familias de las Anthophyta con ejemplos genéricos seleccionados. Colombia. U. Nac. Facul. Nac. de Agron. Rev. 8: 153-368. Sept. 1948. 9.4 C717
- 23695 BARKLEY, F. A. Mapa filogenético de las Anthophyta. Colombia. U. Nac. Facul. Nac. de Agron. Rev. 8: 369-372. Sept. 1948. 9.4 C717
- 23696 BARKLEY, F. A. Nota taxonómica. Colombia. U. Nac. Facul. Nac. de Agron. Rev. 8: 151-152. Sept. 1948. 9.4 C717
- Changes in Hypocoaceae, Isophysidaceae, and Thalassia-ceae.
- 23697 BARNEBY, R. C. Eriogonum villiflorum and its near relatives in the Great Basin. Leaflets West. Bot. 5: 151-154. Jan. 14, 1949. 450 L47
- 23698 BARRETT, M. F. Ficus refusa L. Torrey Bot. Club. B. 76: 53-64. Jan./Feb. 1949. 451 T63B
- 23699 BERGHEN, C. V. Contribution à l'étude des espèces africaines du genre Metzgeria. Brussels. Jard. Bot. de l'État. B. 19: 187-204. 1948. 451 B83B
- 23700 BLOMQUIST, H. L. The grasses of North Carolina. Durham, N. C., Duke U. Press, 1948. 276 p. 452.3 B62
- 23701 BOR, N. L. Castella tuberculosa (Moris) Bor in India. Indian Forester 74: 90-92. Mar. 1948. 99.8 In2
- 23702 BRAUN, O. Clasificación botánica de los Eucaliptus. Campo [La Paz] 2(17): 11-13. Sept. 1948. 9.1 C15
- 23703 BREDEMANN, G. Über Polymnia sonchifolia Poepp. et Endl. (P. edulis Wedd.), die yacon-erdbirne. Bot. Oecon. 1: 65-85. Ref. Aug. 1948. 450 B6528
- English, French, and Russian summaries.
- 23704 BURTT, B. L. Crocus sieberi. Roy. Hort. Soc. J. 74: 12-17. Jan. 1949. 84 L84J
- 23705 CAMP, W. H. A note on Sarracenia. Torrey Bot. Club. B. 76: 10-11. Jan./Feb. 1949. 451 T63B
- 23706 CHURCH, G. L. Histo-taxonomic characteristics of Glycyria and related genera. (Abs.) Amer. J. Bot. 35: 815. Dec. 1948. 450 Am36
- 23707 CONSTANCE, L. A new species of Phacelia from Sonora, Mexico. Madroño 9: 255-257. Oct. 1948. 450 M26
- P. gentryi.
- 23708 CONSTANCE, L. The South American species of Arracacia (Umbelliferae) and some related genera. Torrey Bot. Club. B. 76: 39-52. Jan./Feb. 1949. 451 T63B
- 23709 DAWSON, E. Y. Review of Echinocereus pacificus (Engelm.) B. & R. Desert Plant Life 20: 151-159. Dec. 1948. 450 D45
- 23710 DEL VILLAR, E. H. Quel est le nom valable du Pinus laricio Poir.? Schweiz. Bot. Gesell. Ber. 57: 149-155. 1947. 451 Sch9
- 23711 DOORENBOS, J. The distribution of the genus Acer in Europe. (In Dutch.) Nederland. Dendrol. Ver. Jaarb. 16: 41-47. 1947. 99.9 N28
- 23712 DOORENBOS, J. The history of the classification of wild roses. (In Dutch.) Nederland. Dendrol. Ver. Jaarb. 16: 25-40. 1947. 99.9 N28
- English summary.
- 23713 DUMAN, M. G. A southern extension of range of the northern Carex neurochlaena Holm. (Abs.) Amer. J. Bot. 35: 815. Dec. 1948. 450 Am36
- 23714 EASTWOOD, A. Lupinus lobbii Gray, a good species. Leaflets West. Bot. 5: 155-156. Jan. 14, 1949. 450 L47
- 23715 FASSETT, N. C. Some notes on Echinochloa. Rhodora 51: 1-3. Jan. 1949. 450 R34
- 23716 FEUCHT, O. Die bodenpflanze unserer wälder. Ed. 2, rev. Stuttgart, Schröder, 1947. 117 p. 459.3 F43
- 23717 FOX, W. B. Notes on the distribution of Carya aquatica in North Carolina. Elisha Mitchell Sci. Soc. J. 64: 237-240. Dec. 1948. 500 EL4
- 23718 GODFREY, R. K. Studies in the Compositae of North Carolina. I. Liatris. Elisha Mitchell Sci. Soc. J. 64: 241-249. Dec. 1948. 500 EL4
- 23719 GREENWOOD, W. Notes on some Fijian weeds and introduced plants. Arnold Arboretum. J. 30: 75-84. Jan. 1949. 451 Ar6J
- 23720 HEISER, C. B., JR. Hybridization between the sunflower species Helianthus annuus and H. bolanderi in California. (Abs.) Amer. J. Bot. 35: 815-816. Dec. 1948. 450 Am36
- 23721 HERRE, H. Crassula pyramidalis. Desert Plant Life 20: 143. Nov. 1948. 450 D45
- 23722 HERRE, H. Crassula teres. Desert Plant Life 20: 150. Dec. 1948. 450 D45
- 23723 HOEHNE, F. C. Flora Brasílica, v. 41, pt. 1, by P. A. Munz. São Paulo, 1947. 62 p., 51 pl. 457.2 Sa6F
- Onagraceae.
- 23724 HOWELL, J. T. Three new Arizona plants. Leaflets West. Bot. 5: 148-151. Jan. 14, 1949. 450 L47
- Carex specuicola, Nama retrorsum, Galium collomae.
- 23725 HU, H. S. The silva of China, a description of the trees which grow naturally in China. v. 2. Betulaceae-Corylaceae. Peiping? Fan Mem. Inst. Biol., 1948. 460.14 H86
- 23726 HULL, E. D. Two species of Oxybaphus in Indiana. Rhodora 51: 3-4. Jan. 1949. 450 R34
- 23727 IVANOV, V. V. Trapa natans in the Ural River basin. (In Russian.) Priroda 37(10): 74-75. Oct. 1948. 410 P933
- 23728 JACQUET, J. Spartina townsendi, H. et J. Groves, 1881; anatomie, répartition géographique écologique. Ann. Biol. [Paris] (ser. 3) 24: 257-273. July/Aug. 1948. 442.8 An7
- 23729 JOHNSTON, I. M. Studies in the Boraginaceae. XVII. Arnold Arboretum. J. 30: 85-110. Jan. 1949. 451 Ar6J
- 23730 JONES, G. N. A list of vascular plants from St. Louis County, Minnesota. Amer. Midland Nat. 40: 475-492. Sept. 1948. 410 M58
- 23731 LAKELA, O. Forms of Cornus canadensis in Minnesota. Rhodora 50: 304-306. Dec. 1948. 450 R34
- 23732 MAGUIRE, B., and others. Plant explorations in Guiana in 1944, chiefly to the Tafelberg and the Daie-teur Plateau. VI. Torrey Bot. Club. B. 75: 633-671. (Concl.) Dec. 1948. 451 T63B
- Includes new spp. in Anthurium, Maguirea, Philodendron, Xyris, Protium, Ouratea, Buchenavia, Terminalia, Satyria, Genlisia, Utricularia, Arrabidaea, Anemopaegma, Polylychnis, and n. g. Dyspemptemorian.
- 23733 PARSA, A. New species and varieties of the Persian flora: II. Kew B. 1948: 191-228. 451 K51B
- 23734 RAYMOND, M. Notes sur le genre Actinidia. (Abs.) Assoc. Canad.-Franç. pour l'Avanc. des Sci. Ann. 14: 68. 1948. 517 M76
- 23735 SMITH, R. H. Flora—the sumacs. N. Y. State Conserv. 3(2): 20. Oct./Nov. 1948. 279.8 N48
- 23736 MAKINS, F. K. The identification of trees & shrubs. Ed. 2. New York, Dutton, 1948. 375 p. 458 M28
- 23737 MANGUM, L. S. Compositae of the Navajo country. (Abs.) Amer. J. Bot. 35: 796. Dec. 1948. 450 Am36
- 23738 MATTOON, H. G. Hollies in Pennsylvania. Forest Leaves 38(5): 1-2. Nov./Dec. 1948. 99.8 F763
- 23739 MERRILL, E. D., and PERRY, L. M. Plantae papuanae archboldianae. XVIII. Arnold Arboretum. J. 30: 39-63. Jan. 1949. 451 Ar6J
- 23740 MORAN, R. Dudleya parva, Rose & Davidson. Desert Plant Life 20: 137-140. Nov. 1948. 450 D45
- 23741 MUSIL, A. F. Distinguishing species of Avena by their seed. A study of cultivated oats, the fatuoids, and certain wild species of economic interest. Assoc. Off. Seed Anal. Proc. 38: 84-96. 1948. 61.9 As7
- 23742 MUSIL, A. F. The taxonomic status of Agropyron intermedium as indicated by a comparative study of its seed with that of A. trichophorum and A. elongatum. Assoc. Off. Seed Anal. Proc. 38: 79-83. 1948. 61.9 As7
- 23743 NEAL, M. C. In gardens of Hawaii. Honolulu, 1948. 805 p. (Bernice P. Bishop Mus. Spec. P. 40) 460.53 N25In
- 23744 NICHOLLS, W. H. Re-appearance of a "lost" orchid (Prasophyllum brachystachyum Lindl.). Victorian Nat. 65: 120-122. Sept. 1948. 410 V66
- 23745 RAYMOND, M. Dicentra cucullaria f. purpurincta in Quebec. Rhodora 51: 30-31. Feb. 1949. 450 R34
- 23746 RAYMOND, M. Juncus greenii and Rhus glabra in Quebec. Rhodora 51: 9-10. Jan. 1949. 450 R34
- 23747 RUSH, H. G. An amateur looks at Dudleyas. Cactus & Succulent J. 20: 167-169. Nov. 1948. 451 C11
- 23748 SANTAPAU, H. Notes on the Solanaceae of Bombay. Bombay Nat. Hist. Soc. J. 47: 652-662. Ref. Aug. 1948. 513 B63
- 23749 SCHWARZ, F. Home of Astrophytum myrionostigma var. coahuilensis. Desert Plant Life 20: 133-136. Nov. 1948. 450 D45



23750 SMITH, A. C. Additional notes on *Degeneria vitiensis*. Arnold Arboretum. J. 30: 1-9. Jan. 1949. 451 Ar6J

23751 SMITH, A. C. The occurrence of *Degeneria vitiensis*. (Abs.) Amer. J. Bot. 35: 816. Dec. 1948. 450 Am36

23752 SMITH, C. E., JR. *Potamogeton bicupulatus* in Massachusetts. Rhodora 50: 304. Dec. 1948. 450 R34

23753 SOÓ, R. VON. Zur systematik und soziologie der Phanerogamen vegetation der ungarischen binnengewässer. Nachträge. Arch. Biol. Hungar. (Ser. 2) 17: 90-100. 1947. 442.9 M27

23754 SWAMY, B. G. L. A contribution to the life history of *Casuarina*. Amer. Acad. Arts and Sci. Proc. 77: 1-32. Ref. Dec. 1948. 500 Am33

23755 SWAMY, B. G. L. On the systematic relationships of the family *Degeneriaceae*. (Abs.) Amer. J. Bot. 35: 816. Dec. 1948. 450 Am36

23756 SWINGLE, W. T. New taxonomic technique in studying wild relatives of major crop plants illustrated by *Citrus*. (Abs.) Amer. J. Bot. 35: 798. Dec. 1948. 450 Am36

23757 THORNE, R. R. Vascular plants with Appalachian affinities on the Gulf Coastal Plain of Georgia. (Abs.) Amer. J. Bot. 35: 816. Dec. 1948. 450 Am36

23758 TRESIDDER, M. C. The trees of Yosemite. Rev. ed. Stanford, Stanford U. Press, 1948. 134 p. 455.82 T72

23759 TROUPIN, G. Quelques *Polygala* nouveaux du Congo Belge. Brussels. Jard. Bot. de l'Etat. B. 19: 205-210. 1948. 451 B83B

23760 WHERRY, E. T. Progress in the genus *Phlox*. (Abs.) Amer. J. Bot. 35: 817. Dec. 1948. 450 Am36

23761 WINTERRINGER, G. S. *Salicornia europaea* in Illinois. Rhodora 51: 11-12. Jan. 1949. 450 R34

#### Bryophytes

23762 CLARK, L., and FRYE, T. C. Attu Island Hepaticae collected by Howard. Bryologist 51: 252-256. Dec. 1948. 450 B84

23763 CLARK, L., and SVIHLA, R. D. *Frullania gymnotis*. Bryologist 51: 239-242. Dec. 1948. 450 B84

23764 EBERHARDT, A. Les formes de transition entre *Thamnium alopecurum* (L.) et *Thamnium mediterraneum* Bott. Schweiz. Bot. Gesell. Ber. 57: 184-226. 1947. 451 Sch9

German summary.

23765 FREITAS, S. DE. Contribution to a study of the Hepaticae of Portugal. (In Portuguese.) Brotéria 17: 145-171. Ref. Nov. 1948. 410 B79C

23766 FRYE, T. C. *Atrichum oerstedianum*. Bryologist 51: 242-246. Dec. 1948. 450 B84

23767 FRYE, T. C. *Pogonatum semipellucidum*. Bryologist 51: 248-250. Dec. 1948. 450 B84

23768 GELDREICH, E. E., JR. A new method of spore culture for liverworts. Bryologist 51: 235-238. Dec. 1948. 450 B84

23769 KUCYNIK, J. Does *Dicranum arcticum* occur in southern central Quebec? Rhodora 51: 29-30. Feb. 1949. 450 R34

23770 STAIR, L. D. A few cryptogams from Adak Island, Alaska. Bryologist 51: 247-248. Dec. 1948. 450 B84

Bryophyta, Hepaticae and Lichenes.

23771 WILCZEK, R. Le genre *Dicranum* Hedw. en Belgique. Brussels. Jard. Bot. de l'Etat. B. 19: 91-172. 1948. 451 B83B

#### Algae

23772 BENEKE, E. S. A new species of *Achlya* and of *Dictyuchus*. Elisha Mitchell Sci. Soc. J. 64: 261-265. Dec. 1948. 500 EL4

23773 BLACKLER, H. *Colpomenia sinuosa* (Mert.) Derb. et Sol. in Scotland. Nature [London] 162: 1001. Dec. 25, 1948. 472 N21

23774 COCKE, E. C. The Myxophyceae of North Carolina. (Abs.) Elisha Mitchell Sci. Soc. J. 64: 164. Dec. 1948. 500 EL4

23775 DESIKACHARY, T. V. On *Camptylonema indicum* Schmidle and *Camptylonemopsis* gen. nov. Indian Acad. Sci. Proc. Sect. B 28: 35-50. Aug. 1948. 513 In25B

23776 FELDMANN, J., and FELDMANN, G. Additions à la flore des algues marines de l'Algérie. 4. Soc. d'Hist. Nat. de l'Afrique du Nord, B. 38(1/9): 80-91. Ref. Jan./Dec. 1947. 410.9 Sol25

23777 FELDMANN, J. *Le Trentepohlia effusa* (Krempelhub.) Hariot aux environs d'Alger. Soc. d'Hist. Nat. de l'Afrique du Nord, B. 38(1/9): 92-93. Jan./Dec. 1947. 410.9 Sol25

23778 HORTOBÁGYI, T. *Sestosoma villosum* nov. gen. et sp. (Chlorophyceae, Protococcales). Arch. Biol. Hungar. (Ser. 2) 17: 44-47. 1947. 442.9 M27

23779 MARGALEF, R. Le phytoplancton estival de la "Costa Brava" catalane en 1946. Hydrobiologia 1: 15-21. Ref. Aug. 15, 1948. 410 H992

23780 MESSIKOMMER, E. Algennachweis in entenexkrementen. Hydrobiologia 1: 22-27. Aug. 15, 1948. 410 H992

23781 NISBET, M., and DUSSART, B. Le plancton dans le Lac Léman et ses facteurs de répartition. Paris. Acad. des Sci. Compt. Rend. 227: 1054-1056. Nov. 15, 1948. 505 P21

23782 PATRICK, R. Factors effecting the distribution of diatoms. Bot. Rev. 14: 473-524. Ref. Oct. 1948. 450 B6527

23783 PRESCOTT, G. W. Desmids. Bot. Rev. 14: 644-676. Ref. Dec. 1948. 450 B6527

23784 PRESCOTT, G. W. Objectionable algae with reference to the killing of fish and other animals. Hydrobiologia 1: 1-13. Ref. Aug. 15, 1948. 410 H992

23785 STEPHENS, E. L. *Microcystis toxica* sp. nov. a poisonous alga from the Transvaal and Orange Free State. Hydrobiologia 1: 14. Aug. 15, 1948. 410 H992

23786 TONI, G. DE. Diagnoses algarum novarum. II, Cent. I. Brixiae, 1946-47. 100 p. 461.4 T612D

23787 WILLIAMS, L. G. The marine algae of Cape Lookout, North Carolina. (Abs.) Elisha Mitchell Sci. Soc. J. 64: 169-170. Dec. 1948. 500 EL4

23788 WOOD, R. D. Monographic studies on the Characeae. I. Emendation of *Nitella morongii*. Rhodora 51: 13-18. Feb. 1949. 450 R34

#### Fungi (Including Lichens)

23789 BENEKE, E. S. A monographic study of Illinois species of the Saprolegniales and Leptomitales. Urbana, 1948. 3 p. 462.03 B43

Abstract of thesis—Univ. of Illinois.

23790 BOSE, S. R. A truffle (*Tuber* sp.) from Kodai-Kanal Hills (Madras). Cur. Sci. 17: 305-306. Oct. 1948. 475 Sci23

23791 CERUTI, A. Fungi analytice delineati. Fungi and their structure. Torino, Chiantore, 1948. v. 1, 276 p. 462.8 C33

Agaricaceae.

23792 COKER, W. C. Notes on Carolina fungi. Elisha Mitchell Sci. Soc. J. 64: 287-303. Dec. 1948. 500 EL4

Includes new species in *Polyporus*.

23793 COUCH, J. N. A new genus of the Auriculariaceae [*Platycarpa*]. (Abs.) Elisha Mitchell Sci. Soc. J. 64: 169. Dec. 1948. 500 EL4

23794 CUMMINS, G. B. New species of *Puccinia* on Lauraceae from China. Torrey Bot. Club. B. 76: 31-38. Jan./Feb. 1949. 451 T63B

Ten new species.

23795 DEARDEN, E. R. The flora of Penikese, seventy-four years after. III. Penikese Island fungi. Rhodora 50: 285-288. Dec. 1948. 450 R34

23796 FLACCOMIO, E. Know the mushrooms. (In Italian.) Mezzogiorno Agr. 4(40): 3. Oct. 17, 1948. 16 M57

23797 GAUMANN, E., and TERRIER, C. Über den Entwicklungsgang von *Schroeteria alpinus* (Schroet.) Magn. Schweiz. Bot. Gesell. Ber. 57: 256-257. 1947. 451 Sch9

23798 GAUMANN, E., and TERRIER, C. Zur kenntnis der *Puccinia cerinthos-agropyria* Tranzschel. Schweiz. Bot. Gesell. Ber. 57: 242-244. 1947. 451 Sch9

23799 GAUMANN, E. Zur kenntnis der rostpilzflora der südkalifornischen wüste. Schweiz. Bot. Gesell. Ber. 57: 245-249. 1947. 451 Sch9

New species in *Puccinia*.

23800 GAUMANN, E., and BLUMER, S. Zur kenntnis zweier schweizerischer *Peronospora*-arten. Schweiz. Bot. Gesell. Ber. 57: 250-255. 1947. 451 Sch9

23801 HUNEYCUTT, M. B. Keratinophilic phycomycetes. I. A new genus of the Saprolegniaceae [*Aphanodictyon*]. Elisha Mitchell Sci. Soc. J. 64: 277-285. Ref. Dec. 1948. 500 EL4



- 23802 LA TOUCHE, C. J. Spore prints from individual phialides of *Verticillium* spp. *Nature* [London] 163: 69-70. Jan. 8, 1949. 472 N21
- 23803 LOWE, J. L. Studies in the genus *Poria*. IV. Brown type material. *Lloydia* 11: 163-170. Ref. Sept. 1948. 442.8 L77
- 23804 MAINS, E. B. *Cordyceps bicephala* Berk. and *C. australis* (Speg.) Sacc. *Torrey Bot. Club. B.* 76: 24-30. Ref. Jan./Feb. 1949. 451 T63B
- On ants.
- 23805 MRAK, E. M., and PHAFF, H. J. Yeasts. *Ann. Rev. Microbiol.* 2: 1-46. Ref. 1948. 448.3 An72
- 23806 RAMAKRISHNAN, T. S., and RAMAKRISHNAN, K. Additions to fungi of Madras. V. *Indian Acad. Sci. Proc. Sect. B* 28: 56-70. Ref. Aug. 1948. 513 In25B
- 23807 SHERWIN, H. S. Studies on some wild yeasts from Chapel Hill and vicinity. *Elisha Mitchell Sci. Soc. J.* 64: 267-276. Ref. Dec. 1948. 500 EL4
- 23808 STEYAERT, R. L. Contribution à l'étude des *Pestalotia* du Congo Belge. *Brussels. Jard. Bot. de l'État. B.* 19: 173-186. 1948. 451 B83B
- 23809 WILSON, M. The occurrence in the Uredinales of species with unstable life-history. *Roy. Soc. Edinb. Proc. Sect. B, Biol.* 63: 177-187. Ref. 1948. 501 Ed4P
- 23810 ZELLER, S. M. Notes on certain Gasteromycetes, including two new orders. *Mycologia* 40: 639-668. Nov./Dec. 1948. 450 M99
- Tremellogastrales and Gautieriales; new fam.: Gasterellaceae, Broomeiaceae, Mycenastraceae, Seduculaceae, Tremellogasteraceae, and Gautieriaceae; and new sp. in *Hydnangium*, *Bovistella*, *Morganella* n. g., *Radiigera*, and *Secotium*.

## PATHOLOGY

## General

- 23811 ALTAMIRANO, A. V. Las plagas de los citrus. *Campo* [La Paz] 2(17): 5-7. (To be cont.) Sept. 1948. 9.1 C15
- 23812 ATKINS, F. C. Major diseases of the cultivated white mushroom. *Yaxley, Peterborough, Eng., Midlands Group P.*, 1948. 9 p. 464.04 At5M
- 23813 BAIN, D. C., and PRESLEY, J. T. Diseases of truck crops and their control in Mississippi. *Miss. Agr. Expt. Sta. B.* 453, 27 p. Apr. 1948. 100 M69
- 23814 BERLIN. BIOLOGISCHE ZENTRALANSTALT FÜR LAND- UND FORSTWIRTSCHAFT. Anleitung zur bestimmung und bekämpfung der wichtigsten schädigungen der kulturpflanzen. Ed. 8. Berlin, 1948. (Gemüse- und obstbau, v. 2) 464 B453
- 23815 BIRAGHI, A. Latest notes on the progressive degeneration of the olive. (In Italian.) *Olivicoltura* 3 (10): 3-5. Oct. 1948. 80 OL42
- 23816 BOUYX, L. Les traitements d'hiver des arbres fruitiers. *Tribune Agr. (n. s.)* 749: 1. Dec. 15, 1948. 24 T732
- 23817 CLAASSEN, C. E., SCHUSTER, M. L., and RAY, W. W. New diseases observed in Nebraska on safflower. *Plant Dis. Rptr.* 33: 73-75. Feb. 15, 1949. 1.9 P69P
- 23818 COLHOUN, J., and MUSKETT, A. E. A study of the longevity of the seed-borne parasites of flax in relation to the storage of the seed. *Ann. Appl. Biol.* 35: 429-434. Sept. 1948. 442.8 An72
- 23819 COLHOUN, J. Varietal resistance of flax to disease. *Ann. Appl. Biol.* 35: 582-597. Ref. Dec. 1948. 442.8 An72
- 23820 COPELAND, O. L., JR. Relationship of soils to littleleaf disease in pine. *Forest Farmer* 8(4): 6. Jan. 1949. 99.8 F7692
- 23821 COPPER DEVELOPMENT ASSOCIATION. Copper compounds in agriculture and industrial microbiology. London, 1948. 117 p. 464.4 C79
- 23822 DEL GUERRA, L. Parasitic diseases and the chestnut plantings of the Piedmont and Liguria. (In Italian.) *Ital. Forest. e Mont.* 3: 266-287. Sept./Oct. 1948. 99.8 It12
- 23823 DELPLACE, E. Traitements de la vigne de treille pendant la belle saison. *Acclimatation* 74: 163. (Concl.) June 28, 1947. 14 Ac2
- 23824 DENMARK. STATENS PLANTEPATOLOGISKE FORSØG. Plant diseases and pests in Denmark 1946. (In Danish.) *Tidsskr. for Planteavl* 52: 236-292. 1948. 11 T439.
- English summary.
- 23825 FELTON, M. W., and LIVINGSTON, J. E. Seed and soil treatments for vegetable crops grown in Nebraska. *Nebr. Agr. Expt. Sta. C.* 86, 19 p. Aug. 1948. 100 N27
- 23826 FENNE, S. B. Alfalfa and soybean diseases in Virginia, 1948. *Plant Dis. Rptr.* 33: 90-91. Feb. 15, 1949. 1.9 P69P
- 23827 FENNE, S. B. Small grain diseases in Virginia in 1948. *Plant Dis. Rptr.* 33: 80. Feb. 15, 1949. 1.9 P69P
- 23828 FENNE, S. B. Tobacco diseases in Virginia, 1948. *Plant Dis. Rptr.* 33: 75-76. Feb. 15, 1949. 1.9 P69P
- 23829 FORSBERG, J. L. Lessons in carnation diseases. 2. Rust. *Carnation Craft* 8: 4-5. Jan. 1949. 80 C21
- 23830 FRANCKE-GROSMANN, H. Rotfäule und rie-senbastkäfer, eine gefahr für die Sitkafichte auf öd- und ackerlandaufforstungen Schleswig-Holsteins. *Forst u. Holz* 3: 232-235. Dec. 1, 1948. 99.8 F7724
- Fomes annosus* and *Dendroctonus micans*.
- 23831 GALIBERT, A. Comment reconnaître le court-noué. *Réveil Agr.* 58(2546): 3-4. Jan. 1, 1949. 14 R322
- 23832 GODFREY, G. H., and FRIEND, W. H. Citrus scaly bark and gummosis in the Lower Rio Grande Valley. *Tex. Farming & Citric.* 25: 20. Jan. 1949. 80 T31
- 23833 GONZÁLEZ, C. Daños en las cosechas de uvas del Valle del Cauca. *Rev. Agr. y Ganad.* 10(108): 15-16. Oct. 1948. 9.4 R327
- 23834 GÖTZ, B., and MAIER, G. Schnellberäter bei krankheiten und schädlingen im obstbau. Ed. 2. Stuttgart, Ulmer, 1947. Pt. 1-2. 464.06 G712
- 23835 GREENROYD, J. Holland takes no chances; strict health measures guard horticultural exports. *Nurseryman & Seedsman* 107: 1532-1533. Nov. 18, 1948. 80 N933
- 23836 GREGORY, P. H. The multiple-infection transformation. *Ann. Appl. Biol.* 35: 412-417. Ref. Sept. 1948. 442.8 An72
- Statistical study on plant diseases.
- 23837 GROVES, A. B., and others. New spray materials for apples. *Va. Fruit* 37: 50-60. Jan. 1949. 81 V81B
- H. Miller, S. Levering, and R. Rea, joint authors.
- 23838 HEGGESTAD, H. E. Burley tobacco disease situation in Tennessee, 1948. *Plant Dis. Rptr.* 32: 507-508. Dec. 15, 1948. 1.9 P69P
- 23839 HEMER, M. Fragen zur winterspritzung im obstbau. *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 349. Dec. 4, 1948. 18 L2346
- 23840 JANCKE. Le développement du court-noué en Allemagne. *Off. Internatl. du Vin. B.* 21(213): 33-37. Nov. 1948. 390.8 B87
- Contains a bibliography of German literature.
- 23841 JOUGAN, E. Pour les traitements d'hiver des arbres fruitiers: choix des appareils et pratique de la pulvérisation. *Monit. Agr.* 1(47): 13. Dec. 5, 1948. 14 M744
- 23842 KEARNS, H. G. H. Spraying of neglected orchards. *Worcestershire Agr. Chron.* 17(1): 111, 113, 115-117. Nov. 1948. 10 W892
- 23843 KIRBY, R. S. Apple diseases in Pennsylvania in 1948 and during the twenty-year period ending in 1948. *Plant Dis. Rptr.* 33: 99-103. Feb. 15, 1949. 1.9 P69P
- 23844 KLOTZ, L. J., and FAWCETT, H. S. Color handbook of citrus diseases. Ed. 2, rev. and enl. Berkeley, U. of Calif., 1948. 119 p. 464.06 K69
- 23845 KREITLOW, K. W. A greenhouse bench moist chamber for large scale inoculations. *Phytopathology* 39: 90-91. Jan. 1949. 464.8 P56
- 23846 KUNTZ, J. E., and RIKER, A. J. Winter injury versus disease in Wisconsin poplar plantings. (Abs.) *Phytopathology* 39: 12. Jan. 1949. 464.8 P56
- 23847 LANGEVIN, E. Les travaux d'hiver dans les vergers cidriers. *Rustica* 21: 814. Nov. 14, 1948. 14 R92
- 23848 LARGE, J. R. Parasitic diseases of tung. *Plant Dis. Rptr.* 33: 22-30. Ref. Jan. 15, 1949. 1.9 P69P
- 23849 LECONTE, P. Maladies des Solanées et traitements cupriques. *Terre Maroc.* 20: 323-326. Dec. 1948. 24 T44
- 23850 LEHMAN, S. G. Reports of alfalfa diseases in North Carolina. *Plant Dis. Rptr.* 33: 89-90. Feb. 15, 1949. 1.9 P69P



- 23851 LOCKE, S. B. A method for measuring resistance to defoliation diseases in tomato and other Lycopersicon species. *Phytopathology* 38: 937-942. Ref. Dec. 1948. 464.8 P56
- 23852 LOEWEL, E. L. Der augenblickliche stand der obstbaumspritzung. *Neue Mitt. f. die Landw.* 3: 483-485. Dec. 25, 1948. 18 N39
- 23853 MCMARTIN, A. Seed disinfectants and protectants. I. So. African Indus. Chem. 2: 42-44. (To be cont.) Mar. 1948. 385 So8
- 23854 MAGROU, J., MANIGAULT, P., and SEVRETAIN, G. Immunité et allergie chez les végétaux. *Inst. Pasteur Ann.* 75: 283-285. Sept. 1948. 448.3 An75
- 23855 MARCHIONATTO, J. B. Las enfermedades de las Dalias y su control. *Campo y Suelo Argentino* 32(386): 58-59. Dec. 1948. 9 C15
- 23856 MARINUCCI, M. A big surgical operation: scraping the olive tree. (In Italian.) *Ital. Agr.* 85: 619-624. Nov. 1948. 16 It1
- 23857 MARUDARAJAN, D. Plant diseases and their control in relation to increased crop production. *Madras Agr. J.* 35: 263-267. Oct. 1948. 22 M262
- 23858 MESNIL, L. Remarques sur les travaux allemands se rapportant au court-noué. *Off. Internatl. du Vin. B.* 21(213): 37-38. Nov. 1948. 390.8 B87
- 23859 MICHOT, F. Voici le moment de penser à nos vergers. *Avenir Paysan de la Haute-Marne* 4(77): 1. Nov. 19, 1948. 14 Av3
- Spraying.
- 23860 MILBRATH, D. G., and LOCKWOOD, S. Delayed dormant and spring spray schedules for deciduous fruit trees. *Blue Anchor* 26(1): 12-14. Feb. 1949. 286.83 B62
- 23861 MILLER, P. W., and SCHUSTER, C. E. The decline and death of walnuts in the Pacific Northwest. *Oreg. Agr. Expt. Sta. B.* 453, 20 p. June 1948. 100 Or3
- 23862 MILLER, P. W. Nut diseases in the Pacific Northwest in 1948. *Plant Dis. Rptr.* 33: 20-21. Jan. 15, 1949. 1.9 P69P
- 23863 MONTGOMERY, H. B. S. Investigaciones sobre las enfermedades de los frutales. *Ceres [Valladolid]* 12(150): 13. Dec. 1, 1948. 15 C33
- 23864 MORSTATT, H. A. Pflanzenschutz in theorie und praxis. Ed. 2. Berlin, Deutscher Zentralverlag, 1948. 104 p. 464 M83P
- 23865 MUNGOMERY, R. W. The prohibition of planting P.O.J.2878 in the Moreton Mill Area. *Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B.* 12: 87-88. Oct. 1, 1948. 65.9 Q3C
- To control Fiji disease.
- 23866 NELSON, K. E., HEWITT, W. B., and BREAK, R. A. Arsenite spray injury to grape canes through leaf scars. *Phytopathology* 39: 71-76. Jan. 1949. 464.8 P56
- 23867 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Plant disease survey for the twelve month period ending 30th June, 1948. Sydney, 1948. 70 p. 464.9 N47P
- 23868 NOER, O. J. Winter injury on greens and fairways. *Midwest Turf* 2(4): 4. Oct. 1948. 60.18 M58
- 23869 NOLLA, J. A. B. Sugar cane diseases in Puerto Rico. *Sugar* 44(2): 34-37. Feb. 1949. 65.8 F11
- 23870 OLSEN, O. Beware of the oil. (In Danish.) *Gart.-Tid.* 64: 624. Dec. 22, 1948. 80 G192
- Injuries to plants for spraying.
- 23871 PEGLION, V. *Phytopathological panorama.* (In Italian.) *Ital. Agr.* 85: 671-682. Dec. 1948. 16 It1
- 23872 PELRINE, D. NS. [Nova Scotia], NB. [New Brunswick] hardwood industry tottering; vague "dieback" disease has wiped out over half birch stands in N.B. *Woodland World* 1(6): 5. Dec. 1948. 99.8 W853
- 23873 PHILIBERT, M. Traitements des cultures fruitières par des entreprises spécialisées. *Réveil Agr.* 57: 356-357. Dec. 1, 1948. 14 R322
- 23874 QUARRELL, C. P. How to deal with the slug menace. *Pop. Gard.* 50: 418-419. Jan. 1, 1949. 80 G1622
- 23875 RAGGI, C. A. Nociones de técnica fitopatológica. *Argentina. Dir. de Inform. P. Misc.* 271, 14 p. 1948. 9 P943
- 23876 REID, D. A., and JOSEPHSON, L. M. Small grain diseases in Kentucky in 1948. *Plant Dis. Rptr.* 33: 36-38. Jan. 15, 1949. 1.9 P69P
- 23877 ROLET, R. La lutte contre l'excoriose de la vigne. *Terre* 222: 1, 3. Jan. 13/19, 1949. 281.8 T27
- 23878 SCHWERTFEGER, F. Krankheiten und schädlinge der pappeln; eine übersicht aus neuerem französischen schrifttum. *Pappeljahrb.* 1947: 98-101. Ref. 99.8 P19
- 23879 SMITH, E. H. Spring corn damage facts. *S. Dak. Conserv. Digest* 16: 10, 12. Jan. 1949. 412.9 So822
- Survey of damage by pheasants.
- 23880 SMITH, O. F. Diseases of alfalfa in Nevada and their influence on choice of varieties. *Nev. Agr. Expt. Sta. B.* 182, 28 p. Ref. Oct. 1948. 100 N41S
- 23881 SOENEN, A. Lijst der voornaamste vijanden in land en tuinbouw [List of the principal diseases and pests in gardening]. *Cent. de Rech. de Gorsem.* P. 5, 26 p. 1947. 105.1 G68
- In Latin, Dutch, French, English and German.
- 23882 STELLWAAG. La maladie des ramilles (reisigkrankheit) en Allemagne. *Off. Internatl. du Vin. B.* 21(213): 23-31. Nov. 1948. 390.8 B87
- Grapes.
- 23883 STEVENS, N. E. Disease forecasting as common sense. *Cranberries* 13(9): 17-19. Jan. 1949. 80 C852
- 23884 STEVENSON, J. A., and WELLMAN, F. L. Informe preliminar de las enfermedades de las plantas de El Salvador. *Rev. de Agr. Trop.* [Salvador] 14(25): 10-21. 1947. 8 R326
- 23885 STÖRMER, K., and BERNUTH, J. VON. Neue geichtspunkte zum thema pflanzkartoffelgesundheit. *Neue Mitt. f. die Landw.* 3: 225-226. (Cont.) Aug. 5, 1948. 18 N39
- 23886 SULLIVAN, P. Ring spots on Saintpaulia. *Begonia* 16: 13. Jan. 1949. 96.511 B39
- 23887 TARPONEN, T. Production of substances for plant protection in Finland. *Finnish Trade Rev.* 53: 46, 48. 1948. 286.8 F495
- 23888 TASSY, L. Maladie et traitement des bulbes de glaïeuls. *Réveil Agr.* 58: 22. Jan. 15, 1949. 14 R322
- 23889 TAYLOR, C. F. A storage scald of apples caused by midsummer oil sprays. (Abs.) *Phytopathology* 39: 24. Jan. 1949. 464.8 P56
- 23890 THIEM, H. Zur stellung der technik im pflanzenschutz. *Saat u. Ernte* 3(1): 3-4. Jan. 1948. 18 Sa12
- 23891 TUCKER, C. M. Controlling plant diseases in the home garden. *Mo. Agr. Expt. Sta. C.* 329, 8 p. June 1948. 100 M693
- 23892 U. S. BUR. OF AGRICULTURAL ECONOMICS. Special freeze damage report (Florida, January 1-2, 1949). Washington, 1949. 1 p. 1.941 A2Sp33
- Damage to vegetables.
- 23893 VALDIVIA A., A. Las plagas de los citrus. *Campo [La Paz]* 2(16): 5-7. (Cont.) Aug. 1948. 9.1 C15
- 23894 VALLEAU, W. D., and DIACHUN, S. Tobacco diseases in Kentucky in 1948. *Plant Dis. Rptr.* 32: 505-507. Dec. 15, 1948. 1.9 P69P
- 23895 VERHOEVEN, W. B. L. Ziekten, selectie en keuring van aardappelen [Diseases, selection and regulation of potatoes]. Ed. 2, rev. Wageningen, Veenman, 1947. 128 p. 464.045 V58
- 23896 VINITIS, P. Les travaux d'hiver au vignoble. *Blé et le Vin* 25(1113): 2. Nov. 7/14, 1948. 14 B61
- 23897 VOGT. La maladie des ramilles (reisigkrankheit) chez la vigne. *Off. Internatl. du Vin. B.* 21(213): 31-33. Nov. 1948. 390.8 B87
- 23898 WALKER, J. C. Diseases of cabbage and related plants. *U. S. D. A. Farmers' B.* 1439, rev., 38 p. Nov. 1948. 1 Ag84F
- 23899 WELLMAN, F. L. A list of maize diseases from a limited area in Costa Rica. *Plant Dis. Rptr.* 33: 81-85. Feb. 15, 1949. 1.9 P69P
- 23900 WERNHAM, C. C., and PATTERSON, R. E. A device for planting root-rot organisms with maize seed. (Abs.) *Phytopathology* 39: 25. Jan. 1949. 464.8 P56
- 23901 WESTON, W. A. R. D. Diseases of cereals. London, Longmans, Green, 1948. 69 p. 464.02 W522
- 23902 WHITTEN, R. R. Phloem necrosis and Dutch disease. (Abs.) *Amer. Assoc. Econ. Ent. North Cent. States Br. Proc.* 3: 44-45. 1948. 423.9 Am32
- Transmitted by *Scaphoideus luteolus* and *Scolytus multistriatus* respectively.



23903 WOOD, A. H., JR. Houseplants that withstand oil and gas fumes. *Horticulture* 27: 11. Jan. 1949. 80 H787

#### Diseases Caused by Fungi

23904 ABRAHÃO, J. Botrytis cinerea Pers. parasitizing seedlings of Eucalyptus spp. (In Portuguese.) *Biológico* 14: 172. July 1948. 442.8 B529

23905 ALEXANDER, L. J. A new glasshouse tomato variety, of Globe type, resistant to Fusarium oxysporium f. lycopersici race 1. (Abs.) *Phytopathology* 39: 1. Jan. 1949. 464.8 P56

23906 ALLISON, J. L., and others. Rhizoctonia solani, a destructive pathogen of Alta fescue, smooth brome grass, and birdsfoot trefoil. (Abs.) *Phytopathology* 39: 1. Jan. 1949. 464.8 P56

H. S. Sherwin, I. Forbes, Jr., and R. E. Wagner, joint authors.

23907 ANDERSEN, A. M. Some factors associated with the browning of sugar beet (*Beta vulgaris* L.) seedlings in laboratory germination tests. *Assoc. Off. Seed Anal. Proc.* 38: 52-58. 1948. 61.9 As7

23908 ARMSTRONG, G. M., and ARMSTRONG, J. K. The Fusarium wilt of cowpeas and soybeans. (Abs.) *Phytopathology* 39: 1-2. Jan. 1949. 464.8 P56

23909 ARNDT, C. H. An evaluation of certain substituted phenol esters for the treatment of cotton seed. *Phytopathology* 38: 978-987. Dec. 1948. 464.8 P56

23910 ATKINS, J. G., JR., and BOUCHEREAU, P. Seed treatment tests with water-planted rice. (Abs.) *Phytopathology* 39: 2. Jan. 1949. 464.8 P56

23911 BAGCHEE, K. D. An unrecorded parasite of teak (*Tectona grandis* Linn. f.) reported from Dehra Dun, U. P. *Indian Forester* 73: 332-334. July 1947. 99.8 In2

Caused by unidentified fungus, probably Hypomyces.

23912 BAKER, K. F., CLARK, L. H., and KIMBALL, M. H. Association of Deuterophoma spp. with a Chrysanthemum stunt disease in California. *Plant Dis. Rptr.* 33: 2-8. Ref. Jan. 15, 1949. 1.9 P69P

23913 BAKER, R. E., and VOTH, V. Sample size and plot size for testing resistance of strawberry varieties to Verticillium wilt. *Phytopathology* 38: 1034-1036. Dec. 1948. 464.8 P56

23914 BAVENDAMM, W. Die pilzwidrige Wirkung der Holzschutz benutzten chemikalien. *Reichsinst. f. Forst- Holzwirtsch. Mitt.* 7, 14 p. Ref. Aug. 1948. 99.9 R273

English, French, and Spanish summaries.

23915 BEACH, W. S. Effects of excess solutes upon damping-off in sand cultures. (Abs.) *Phytopathology* 39: 2. Jan. 1949. 464.8 P56

Rhizoctonia solani, Fusarium and Pythium ultimum on tomato seedlings.

23916 BERKELEY, M. J. Observations, botanical and physiological, on the potato murrain, together with selections from Vegetable Pathology. East Lansing, Mich., Amer. Phytopathol. Soc., 1948. 108 p. (Phytopathol. Classics. 8) 464.045 B45

23917 BEVER, W. M., and SLIFE, F. W. Effect of 2,4-D in culture medium on the growth of three pathogenic fungi. *Phytopathology* 38: 1038. Dec. 1948. 464.8 P56

23918 BJÖRLING, K. Foot rot diseases of cereals and their effect on lodging. (In Swedish.) *Kungl. Lantbruksakad. Tidskr.* 87: 418-433. Ref. 1948. 104 Sw3

English summary.

23919 BLISS, E. D., and WILBUR, W. D. Progress report on the development of Omphalia root rot in artificially inoculated date palms. *Date Growers' Inst. Rpt.* (1948) 25: 19-23. 1949. 81 D26

23920 BORZINI, G., and TIRELLI, M. The treatment or disinfection of seeds. (In Italian.) *Riv. Fitosanit.* 2: 62-64. (To be cont.) Aug. 1948. 464.8 R522

23921 BRAGONIER, W. H. Umbrella disease of Rhus glabra and R. typhina caused by Botryosphaeria ribis. (Abs.) *Phytopathology* 39: 3. Jan. 1949. 464.8 P56

23922 BROWN, A. M., and JOHNSON, T. Studies on variation in leaf rust of wheat, Puccinia triticina. (Abs.) *Phytopathology* 39: 3-4. Jan. 1949. 464.8 P56

23923 BUTLER, F. C. A summary of the damage caused by stem rust of wheat; value of resistant varieties. *Agr. Gaz. N. S. Wales* 59: 511-514, 520. Oct. 1948. 23 N472

23924 CALDWELL, R. M., STANTON, T. R., and MULVEY, R. R. Downy mildew [Sclerospora macrospora] of oats in Indiana. *Plant Dis. Rptr.* 33: 78-79. Feb. 15, 1949. 1.9 P69P

23925 CAMICI, L. Mummification of chestnuts due to Phomopsis viterbensis n. sp. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2: 557-566. 1948. 16 An76

English summary.

23926 CAMINHA FILHO, A. Sugarcane smut (Ustilago scitaminea (Rab.) Syd.). (In Portuguese.) *Brasil Açucareiro* 32: 349-351. Sept./Oct. 1948. 65.8 B73

23927 CAMPBELL, L. Gray mold [Botrytis cinerea] of beans in western Washington. *Plant Dis. Rptr.* 33: 91-93. Feb. 15, 1949. 1.9 P69P

23928 CARRERA, C. Tratamiento o cura de las semillas de los cereales. *Bolsa de Cereales, Buenos Aires. Rev.* 35(1868): 19-21, 28, 37. Oct. 14, 1948. 287 B866

23929 CARTER, J. C. A canker of Chinese elm. (Abs.) *Phytopathology* 39: 4. Jan. 1949. 464.8 P56

Probably caused by a species of Tubercularia.

23930 CASA-PACHECO, MARQUÉS DE. La caries o tizón del trigo. *Siembra* 1948(11): 10-11. Nov. 1948. 15 Si1

23931 CATION, D., DUNEGAN, J. C., and KEPHART, J. The occurrence of Monilinia laxa in Michigan. *Plant Dis. Rptr.* 33: 96. Feb. 15, 1949. 1.9 P69P

23932 CATION, D., and DUNEGAN, J. C. The overwintering of Monilinia fructicola in twig cankers under Michigan conditions. *Plant Dis. Rptr.* 33: 97-98. Feb. 15, 1949. 1.9 P69P

23933 CHANDLER, W. A., and THURSTON, H. W., JR. The constituents of "341" as apple scab fungicides. (Abs.) *Phytopathology* 39: 4. Jan. 1949. 464.8 P56

23934 CHAPMAN, R. A., and LINN, M. B. Mineral nutrition in relation to infection of the tomato by Septoria lycopersici. (Abs.) *Phytopathology* 39: 4. Jan. 1949. 464.8 P56

23935 CICCARONE, A. Note on wheat culture in Kenya with particular reference to the rust problem. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 41: 22-42. Ref. Jan./Mar. 1947. 26 Ag82

23936 CICCARONE, A. The problem of grain rust in Ethiopia. Three years' observations (1938-1940). (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 41: 169-194. July/Sept. 1947. 26 Ag82

23937 COLHOUN, J. Nitrogen content in relation to fungal growth in apples. *Ann. Appl. Biol.* 35: 638-647. Ref. Dec. 1948. 442.8 An72

Cytosporina ludibunda and Fusarium fructigenum.

23938 COMEADOW, W. A. New fungicide for Gladiolus. *New England Gladiolus Soc. Gladiolus Mag.* 12(5): 9-11, 40. Oct./Nov. 1948. 96.43 N44

23939 CONOVER, R. A. A seedling blight of avocado caused by Phytophthora palmivora. *Phytopathology* 38: 1032-1034. Dec. 1948. 464.8 P56

23940 COOPER, W. E., and CHILTON, S. J. P. Antibiosis of Actinomyces strains to Pythium arrhenomanes, P. ultimum, and Rhizoctonia solani. (Abs.) *Phytopathology* 39: 5. Jan. 1949. 464.8 P56

23941 COX, R. S. Further studies on stem anthracnose [Colletotrichum truncatum] of lima bean in North Carolina. (Abs.) *Phytopathology* 39: 5. Jan. 1949. 464.8 P56

23942 CROSIER, W., and HEIT, C. E. Some seed-borne fungi of flowers. *Assoc. Off. Seed Anal. Proc.* 38: 73-76. 1948. 61.9 As7

23943 DASTUR, J. F. Wheat rusts and their control. *Sci. and Cult.* 13: 91-98. Sept. 1947. 475 Sci24

23944 DREILING, F. R. Horticultural practices and brown rot of peaches. *Va. Fruit* 36(12): 20-23. Dec. 1948. 81 V81B

23945 DRUMMOND-GONÇALVES, R. Saporema. *Chacaras e Quintais* 79: 82-83. Jan. 15, 1949. 9.2 C34

Root rot of plants; or the fungus Polyporus sapurema.

23946 DUNEGAN, J. C., and KEPHART, J. Glomerella cingulata on peaches from Georgia and Maryland. *Plant Dis. Rptr.* 33: 18. Jan. 15, 1949. 1.9 P69P

23947 DUNEGAN, J. C. Prunus umbellata—a hitherto unreported host of Tranzschelia pruni-spinosae var. typica. *Plant Dis. Rptr.* 33: 19. Jan. 15, 1949. 1.9 P69P

23948 DUPOUY, L. La pourriture des plants de pommes de terre. *Rustica* 22: 20. Jan. 2, 1949. 14 R92

Alternaria solani on potato.



- 23949 FAVRET, E. A. On the genetics of resistance to mildew in barley. (Abs.) *Phytopathology* 39: 6. Jan. 1949. 464.8 P56
- 23950 FELBER, I. M., and HAMNER, C. L. Control of mildew on bean plants by means of an antibiotic. *Bot. Gaz.* 110: 324-325. Dec. 1948. 450 B652  
Control of *Erysiphe polygoni* by actidione, a product of *Streptomyces griseus*.
- 23951 FELDMAN, A. W., CAROSELLI, N. E., and HOWARD, F. L. Physiological and chemotherapeutic investigations of *Ceratostomella ulmi*. (Abs.) *Phytopathology* 39: 6-7. Jan. 1949. 464.8 P56
- 23952 FELIX, E. L. Copper naphthenate dust and spray. (Abs.) *Phytopathology* 39: 7. Jan. 1949. 464.8 P56
- 23953 FORT, W. Here in Jersey. *Cranberry World* 3(4): 10. Jan. 1949. 280.28 C85  
Fungicide program.
- 23954 FRAZER, S. P. Prevencion y cura del tizón tardío. *Control de Plagas* 10: 165-168. Dec. 1948. 464.8 C76  
Chiefly of potatoes.
- 23955 FRÖIER, K., and ZIENKIEWICZ, H. Some of the commonest fungous diseases in fibre flax. (In Swedish.) *Lin. Dansk-Svensk Hörtidsskr.* 2: 183-190. Nov. 1948. 73.18 L63  
English abstract, p. 202.
- 23956 GALLEGLEY, M. E. Host nutrition in relation to development of *Verticillium* wilt of tomato. (Abs.) *Phytopathology* 39: 7. Jan. 1949. 464.8 P56
- 23957 GARRETT, S. D., and MANN, H. H. Soil conditions and the take-all disease of wheat. X. Control of the disease under continuous cultivation of a spring-sown cereal. *Ann. Appl. Biol.* 35: 435-442. Sept. 1948. 442.8 An72
- 23958 GIULIANELLI, E. Control of grain caries. (In Italian.) *Agr. Romagna* 20: 2. Oct. 20, 1948. 16 Ag828
- 23959 GOHEEN, A. C. *Verticillium* wilt on apricots in Washington State. *Plant Dis. Rptr.* 33: 99. Feb. 15, 1949. 1.9 P69P
- 23960 GOLDSWORTHY, M. C., and DUNEGAN, J. C. Inoculation experiments with Atlantic and Pacific Coast collections of *Tranzschelia pruni-spinosae* discolor. (Abs.) *Phytopathology* 39: 7. Jan. 1949. 464.8 P56
- 23961 GORENZ, A. M., LARSON, R. H., and WALKER, J. C. Factors affecting pathogenicity of pink root fungus [*Pyrenochaeta terrestris*] of onions. *J. Agr. Res.* 78: 1-18. Ref. Jan. 1/15, 1949. 1 Ag84J
- 23962 GOULD, C. J. Influence of climate on incidence of *Fusarium* rot and dry rot in *Gladiolus* corms. (Abs.) *Phytopathology* 39: 8. Jan. 1949. 464.8 P56  
*Fusarium oxysporum gladioli* and *Sclerotinia gladioli*.
- 23963 GOULD, E., and TAYLOR, C. F. Effect of insecticidal sprays on incidence of peach scab [*Cladosporium carpophilum*] in West Virginia. *Plant Dis. Rptr.* 33: 16-17. Jan. 15, 1949. 1.9 P69P
- 23964 GUISCAFRE-ARRILLAGA, J. Inhibitory action of 2,4-dichlorophenoxyacetic acid on *Penicillium digitatum* and *Phomopsis citri*. (Abs.) *Phytopathology* 39: 8-9. Jan. 1949. 464.8 P56
- 23965 HAFIZ, A. Smut diseases and their control by cultural methods. *Roy. Col. Sci., London. Sci. J.* 18: 77-80. 1948. 501 L8484
- 23966 HAHN, G. G. Evidence of the non-existence of physiological races in *Cronartium ribicola*. *Phytopathology* 39: 85-87. Jan. 1949. 464.8 P56
- 23967 HARRISON, T. H. Australia still free from true *Gladiolus* smut. *Austral. Inst. Agr. Sci. J.* 14: 147. Sept. 1948. 23 Au74
- 23968 HAVIS, L. Some peach production practices related to brown rot development. *Va. Fruit* 37: 88-91. Jan. 1949. 81 V81B
- 23969 HAWKINS, B. S., and HIGGINS, B. B. *Verticillium* wilt of cotton found in Georgia. *Plant Dis. Rptr.* 33: 77-78. Feb. 15, 1949. 1.9 P69P
- 23970 HEAN, A. F. A wilt disease of *Crotalaria juncea* Linn. (Sunn hemp) found in South Africa. *Union So. Africa. Dept. Agr. Sci. B.* 255, 15 p. Ref. 1947. 24 So84S  
*Fusarium moniliforme subglutinans*.
- 23971 HIRT, R. R. An isolate of *Poria xantha* on media containing copper. *Phytopathology* 39: 31-36. Jan. 1949. 464.8 P56
- 23972 HOCKLEY, S. R. Glenwari: a new rust-resistant wheat. *So. Austral. Dept. Agr. J.* 52: 173. Nov. 1948. 23 So84
- 23973 HOPPE, P. E. Differences in *Pythium* injury to corn seedlings at high and low soil temperatures. *Phytopathology* 39: 77-84. Jan. 1949. 464.8 P56
- 23974 HORSFALL, J. G., RICH, S., and CHAPMAN, R. A. Bimodal dosage-response curves in fungicide field trials. (Abs.) *Phytopathology* 39: 10. Jan. 1949. 464.8 P56
- 23975 HOUGH, L. F., and SHAY, J. R. Breeding for scab resistant apples. (Abs.) *Phytopathology* 39: 10. Jan. 1949. 464.8 P56
- 23976 HOUSTON, B. R., and KNOWLES, P. F. Fifty-year survival of flax *Fusarium* wilt [*Fusarium oxysporum* lin.] in the absence of flax culture. *Plant Dis. Rptr.* 33: 38-39. Jan. 15, 1949. 1.9 P69P
- 23977 HOUSTON, B. R., and OSWALD, J. W. Methods in inoculation of barley with the stripe disease, *Helminthosporium gramineum*. (Abs.) *Phytopathology* 38: 915. Nov. 1948. 464.8 P56
- 23978 HUGHES, C. G. Treatment with fungicides as a help to better strikes. *Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B.* 12: 54-58. Oct. 1, 1948. 65.9 Q3C
- 23979 HURST, J. W., JR. Barberries in Montana. *Mont. Acad. Sci. Proc.* 1947-48(7-8): 39-42. 1948. 500 M762  
Eradication for control of white pine blister rust.
- 23980 HYRE, R. A. Trapping sporangia of *Phytophthora infestans* as an aid in forecasting the development of late blight. (Abs.) *Phytopathology* 39: 10-11. Jan. 1949. 464.8 P56
- 23981 JENNISON, M. W. The growth of wood-rotting fungi in submerged culture. (Abs.) *Amer. J. Bot.* 35: 801. Dec. 1948. 450 Am36
- 23982 JOHNSON, T. Field infection experiments with races 15A and 15B of *Puccinia graminis tritici*. *Phytopathology* 39: 41-46. Jan. 1949. 464.8 P56
- 23983 JUÁREZ MONTEGRIFO, F. Mildiu y oidium de la vid. Murcia, Spain. *Cám. Ofic. Agr. B.* 67/68: 8-10. May/June 1948. 15 M93
- 23984 KENKNIGHT, G. Findings of the *Omphalia* date root rot survey. *Date Growers' Inst. Rpt.* (1948) 25: 5-11. Ref. 1949. 81 D26
- 23985 KEVORKIAN, A. G. Bird's eye spot disease of Hevea rubber in Nicaragua. *Phytopathology* 38: 1025-1027. Dec. 1948. 464.8 P56  
*Helminthosporium heveae*.
- 23986 KING, G. H. Plenty of good tobacco plants; they can be grown now by fighting blue mold and insects. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 64: 84, 89. Jan. 1949. 6 P945G
- 23987 KNICKMANN, E. Zur bekämpfung des kartoffelschorfs. *Neue Mitt. f. die Landw.* 3: 53-55. Feb. 21, 1948. 18 N39
- 23988 KREITLOW, K. W. Pathogenicity of *Sclerotinia trifoliorum* to some forage legumes. (Abs.) *Phytopathology* 39: 11-12. Jan. 1949. 464.8 P56
- 23989 LEACH, L. D. Use of soluble and wettable fungicides for seed treatment. (Abs.) *Phytopathology* 39: 12-13. Jan. 1949. 464.8 P56
- 23990 LEBEAU, F. J. Resistance to anthracnose [*Colletotrichum graminicolum*] in sorghum. (Abs.) *Phytopathology* 39: 13. Jan. 1949. 464.8 P56
- 23991 LEBEN, C. The determination of antimycin on plant leaves. (Abs.) *Phytopathology* 39: 13. Jan. 1949. 464.8 P56  
*Colletotrichum circinans* as an assay organism.
- 23992 LECONTE, P. Maladie des Solanées et traitements cupriques. *Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc.* 19(198): 20-22. Jan. 1949. 80 F9482
- 23993 LEUKEL, R. W., and WEBSTER, O. J. Sorghum seed treatment tests in 1948. *Plant Dis. Rptr.* 33: 39-41. Jan. 15, 1949. 1.9 P69P
- 23994 LIBOIS. La lutte contre la carie et les charbons des céréales. *Rev. Agr. de l'Afrique du Nord* 46: 515-517. Oct. 15, 1948. 80 R326
- 23995 LIMBER, D. P. Notes on *Curvularia* sp. on *Gladiolus*, with five new distribution records. *Plant Dis. Rptr.* 33: 66-68. Feb. 15, 1949. 1.9 P69P
- 23996 LINDFORS, T. Keep after the Berberis bushes! (In Swedish.) *Kalmar Läns Norra Hushållningssällsk. Kvrtlsskr.* 8: 114-116. 1948. 11 K12
- 23997 LOCKE, S. B. Onion smudge [*Colletotrichum circinans*]. *Plant Dis. Rptr.* 32: 518. Dec. 15, 1948. 1.9 P69P
- 23998 LOHWAG, K. Pilze als feinde unseres holzes. *Österr. Mykol. Gesell. Veröffentl.* 1, 21 p. Ref. 1948. 451 Os7



- 23999 MCCALLAN, S. E. A. Fungicides. II. Sulphur and copper fungicides. Westralian Farmers' Co-op Gaz. 14: 401-402. Dec. 1948. 280.28 W522
- 24000 MACK, G. L. Chemical methods for the de-termination of dithiocarbamates in spray residues. (Abs.) Phytopathology 39: 13-14. Jan. 1949. 464.8 P56
- 24001 MACK, G. L., and SCHROEDER, W. T. Spray adjuvants to improve the sticking and distribution pattern of zinc dimethyldithiocarbamate on tomato foliage. (Abs.) Phytopathology 39: 14. Jan. 1949. 464.8 P56
- 24002 MCKEEN, C. D. Soil treatment with Arasan for the control of damping-off of certain vegetables. (Abs.) Phytopathology 39: 15. Jan. 1949. 464.8 P56
- 24003 MCMARTIN, A. Sugarcane smut; a report on visits to the sugar estates of Southern Rhodesia and Portuguese East Africa, with general observations on the disease. So. African Sugar J. 32: 737, 739, 741, 743, 745, 747, 749. Dec. 1948. 65.8 So8
- 24004 MCWHORTER, F. P. Two unusual records of vegetable diseases in Oregon. Plant Dis. Rptr. 33: 10. Jan. 15, 1949. 1.9 P69P
- Fusarium solani cucurbitae on squash and Macrosporium cucumerium on cucumber.
- 24005 MAGEE, C. J. Squirter and black-end diseases of bananas. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 74, 4 p. 1948. 423.92 N47
- 24006 MALLAMAIRE, A. La gommose parasitaire des agrumes. Agon. Trop. 3: 489-496. Ref. Sept./Oct. 1948. 26 Ag86
- 24007 MARTIN, W. J. Strains of Phytophthora infestans capable of surviving high temperatures. (Abs.) Phytopathology 39: 14. Jan. 1949. 464.8 P56
- 24008 MEEHAN, F., and MURPHY, H. C. Septoria avenae on oats in Iowa. (Abs.) Phytopathology 39: 15. Jan. 1949. 464.8 P56
- 24009 MIEGE, E. Le traitement de la carie du blé. Inform. Maroc. 403: 1, 4. Oct. 2, 1948. 281.8 In3
- 24010 MILLER, L. I. Cultural and parasitic races of Cercospora arachidicola and Cercospora personata. (Abs.) Phytopathology 39: 15. Jan. 1949. 464.8 P56
- 24011 MILLER, P. R., and O'BRIEN, M. The warning service in 1948. Tobacco blue mold, potato and tomato late blight, cucurbit downy mildew. Plant Dis. Rptr. Sup. 178: 171-291. Dec. 30, 1948. 1.9 P69P
- 24012 MOORE, W. C. Take-all of cereals in England and the epidemic of 1948. Gt. Brit. Min. Agr. Agriculture 55: 383-385. Dec. 1948. 10 G79J
- 24013 MORGAN, O. D., and POWELL, D. The effect of wetting agents on brown rot [Sclerotinia fructicola] control. (Abs.) Phytopathology 39: 16. Jan. 1949. 464.8 P56
- Copper 8-quinolinate as a spray for peaches.
- 24014 MOROCHKOVSKIY, S. F. Gribnafa flora kagat-noi gnili sakharno-svekly [The fungus flora causing rot of sugar beets in stacks]. Moskva, Pishchepromizdat, 1948. 212 p. 462.12 M82
- 24015 NAGEL, C. M. Leaf rust [Melampsora medusae] resistance within certain species and hybrids of Populus. (Abs.) Phytopathology 39: 16. Jan. 1949. 464.8 P56
- 24016 NELSON, R. Comparison of dust fungicides and formaldehyde in the control of onion smut. (Abs.) Phytopathology 39: 16. Jan. 1949. 464.8 P56
- 24017 NELSON, R., and MOOAR, M. Life history of Stemphylium causing red leaf spot of Gladiolus. (Abs.) Phytopathology 39: 16-17. Jan. 1949. 464.8 P56
- 24018 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Fusarium wilts and root rots. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 47, 6 p. 1948. 423.92 N47
- 24019 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BR. Plant diseases. Agr. Gaz. N. S. Wales 59: 527-530. Oct. 1948. 23 N472
- Powdery and downy mildew of grapes.
- 24020 NICOLAS, G., and AGGERY, B. Epilobes et rouille. Paris. Acad. des Sci. Compt. Rend. 227: 1068-1071. Nov. 22, 1948. 505 P21
- 24021 OLSON, E. O. Inheritance of sex and pathogenicity in Ceratostomella fimbriata from sweet potatoes. (Abs.) Phytopathology 39: 17. Jan. 1949. 464.8 P56
- 24022 OLSON, E. O., and MARTIN, W. J. Relationship of Ceratostomella fimbriata from the Hevea rubber tree and sweet potato. (Abs.) Phytopathology 39: 17. Jan. 1949. 464.8 P56
- 24023 OWEN, J. H. Induced variations in two species of Botrytis causing neck rot of onion. (Abs.) Phytopathology 39: 17. Jan. 1949. 464.8 P56
- 24024 PADDOCK, W. C. Some histological relationships between Helminthosporium victoriae and a susceptible and a resistant oat. (Abs.) Phytopathology 39: 17-18. Jan. 1949. 464.8 P56
- 24025 PALMITER, D. H. Sooty blotch disease [Gloeodes pomigena] of pears and its control. N. Y. (State) Agr. Expt. Sta. B. 734, 14 p. Nov. 1948. 100 N48
- 24026 PEPIN, J. A. Possibility of identifying bacterial blight and anthracnose infection in the seed laboratory. Assoc. Off. Seed Anal. Proc. 38: 76-77. 1948. 61.9 As7
- 24027 PETERSON, P. D. Control measures for brown rot of peaches. Va. Fruit 37: 91-99. Jan. 1949. 81 V81B
- Discussion, p. 99-110.
- 24028 PICCC, D. Study of the biology of Endothia parasitica (Murr.) Andersen in Italy. (In Italian.) Ital. Forest. e Mont. 3: 254-258. Sept./Oct. 1948. 99.8 It12
- 24029 PLAKIDAS, A. G. Strains of Mycosphaerella fragariae. Phytopathology 38: 988-992. Dec. 1948. 464.8 P56
- 24030 PON, D. S. Physiologic specialization and variation in Helminthosporium teres. (Abs.) Phytopathology 39: 18. Jan. 1949. 464.8 P56
- 24031 POULOS, P. L., and HEUBERGER, J. W. Peach brown rot: pre-harvest sprays and control in the orchard and in the package. (Abs.) Phytopathology 39: 18. Jan. 1949. 464.8 P56
- 24032 PRESTON, N. C. Take-all and eyespot of wheat. Worcestershire Agr. Chron. 17(1): 9, 11, 13, 15. Nov. 1948. 10 W892
- 24033 RADEMACHER, B. Über die erbliche Konstanz der flüssigkeitsneigung dreier haifersorten im verlauf von 16 jahren und unter verschiedenartigen anbaubedingungen. Züchter 19(1/3): 1-6. Ref. 1948. 442.8 Z8
- 24034 RICH, A. E. Varietal resistance to potato late blight in western Washington in 1948. Plant Dis. Rptr. 33: 11. Jan. 15, 1949. 1.9 P69P
- 24035 RICH, S., and HORSFALL, J. G. Fungicidal activity of dinitrocaphylphenyl crotonate. (Abs.) Phytopathology 39: 19. Jan. 1949. 464.8 P56
- 24036 RIKER, A. J. The menace of oak wilt. Amer. Nurseryman 89(2): 11, 63-65. Jan. 15, 1949. 80 Am371
- 24037 RIKER, A. J., KOUBA, T. F., and BRENER, W. H. Selecting white pine for resistance to blister rust. (Abs.) Phytopathology 39: 20. Jan. 1949. 464.8 P56
- 24038 RILEY, H. K. Lafayette's Azaleas retained their glory. Prog. Farmer, Miss.-Ark.-La. Ed. 64: 17. Jan. 1949. 6 So81
- Control of petal blight with Dithane D-14.
- 24039 ROSEN, H. R. Oat diseases in Arkansas, 1947-48. Plant Dis. Rptr. 33: 31-35. Jan. 15, 1949. 1.9 P69P
- 24040 ROSEN, H. R. Oat parentage and procedures for combining resistance to crown rust [Puccinia coronata], including race 45, and Helminthosporium blight. (Abs.) Phytopathology 39: 20. Jan. 1949. 464.8 P56
- 24041 ROWELL, J. B., and HOWARD, F. L. Studies of "mist blower" fungicidal concentrates for row crops. (Abs.) Phytopathology 39: 21. Jan. 1949. 464.8 P56
- 24042 RUGGIERI, G. Study and experiments on a Verticillium wilt of olive. (In Italian.) Olivicoltura 3 (10): 6-9. Oct. 1948. 80 OL42
- 24043 RUGGIERI, G. A Verticillium die-back of olive-trees. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 549-556. 1948. 16 An76
- English summary.
- 24044 SCHROEDER, W. T. The control of blossom-end rot of tomato with emulsified hydrocarbon sprays. (Abs.) Phytopathology 39: 21-22. Jan. 1949. 464.8 P56
- 24045 SCHUSTER, M. L., and RAY, W. W. New disease [Puccinia aristidae] in Nebraska on sugar beets. Plant Dis. Rptr. 33: 41. Jan. 15, 1949. 1.9 P69P
- 24046 SEBELIN, C. A. E. Das beizen des saatgutes. Bremen, Dorn, 1947. 16 p. 464 Se2
- 24047 SINDEN, J. W., and YODER, J. B. Effect of copper and certain dithiocarbamate fungicides on the control of Verticillium spot and bubble of mushrooms. (Abs.) Phytopathology 39: 22. Jan. 1949. 464.8 P56
- 24048 SMITH, P. G. Powdery mildew resistance in cucumber. Phytopathology 38: 1027-1028. Dec. 1948. 464.8 P56



- 24049 SNYDER, W. C., and BARDIN, R. Occurrence of Fusarium wilt in a market-garden crop of radishes. Plant Dis. Rptr. 33: 9. Jan. 15, 1949. 1.9 P69P
- 24050 SPRAGUE, R. Selenophoma spot, a new wheat disease for North America. (Abs.) Phytopathology 39: 23. Jan. 1949. 464.8 P56
- 24051 STAKMAN, E. C., and others. Recent changes in prevalence of physiologic races of Puccinia graminis tritici in south-central Mexico. (Abs.) Phytopathology 39: 23. Jan. 1949. 464.8 P56
- J. G. Harrar, W. Q. Loegering, and N. E. Borlaug, joint authors.
- 24052 STANTON, T. R., RODENHISER, H. A., and STEVENS, H. Downy mildew [Sclerospora macrospora] of oats in Idaho. Plant Dis. Rptr. 33: 79. Feb. 15, 1949. 1.9 P69P
- 24053 STEIB, R. J. Studies on penetration and infection of sugarcane stalks by Physalospora tucumanensis. (Abs.) Phytopathology 39: 23. Jan. 1949. 464.8 P56
- 24054 SUIT, R. F. Successful melanose control. Citrus Mag. 11(5): 18, 21. Jan. 1949. 80 C498
- Similar title in Citrus Indus. 30(2): 8, 18. Feb. 1949. 80 C49
- 24055 TERRIER, C. A. Un nouveau champignon parasite des aiguilles du sapin blanc: Dimeriella terrieri Petrak nov. spec. in litt. Schweiz. Bot. Gesell. Ber. 57: 164-173. Ref. 1947. 451 Sch9
- 24056 THOMAS, C. A. A wilt-inducing polysaccharide from Fusarium solani f. eumartii. (Abs.) Phytopathology 39: 24. Jan. 1949. 464.8 P56
- 24057 TOOLE, E. R., and HEPTING, G. H. Selection and propagation of Albizzia for resistance to Fusarium wilt. Phytopathology 39: 63-70. Jan. 1949. 464.8 P56
- 24058 TREGGI, G. Chestnut blight in the Pistoian Apennines. (In Italian.) Pisa. U. Facol. di Agr. Ann. (n. s.): 8: 254-257. Nov. 10, 1948. 105.4 P672
- Endothia parasitica.
- 24059 ULLSTRUP, A. J., and TUCKER, C. M. The occurrence of Phytophthora parasitica on corn. Phytopathology 38: 1029-1031. Dec. 1948. 464.8 P56
- 24060 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Stem rust and the barberry (Puccinia graminis Pers.). U. S. D. A. Picture Sheet 23, 2 p. Oct. 1948. 1 En86P
- 24061 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. White pine blister rust (Cronartium ribicola Fischer). U. S. D. A. Picture Sheet 22, 2 p. Dec. 1948. 1 En86P
- 24062 VAUGHAN, E. K. Controlling damping-off in vegetable seedlings. Oreg. Agr. Expt. Sta. C. Inform. 447, 2 p. Jan. 1949. 100 Or3C
- 24063 VAUGHAN, E. K., and DANA, B. F. Experimental applications of dusts and sprays to beans for control of Sclerotinia sclerotiorum. Plant Dis. Rptr. 33: 12-15. Jan. 15, 1949. 1.9 P69P
- 24064 VEIGA, F. M. Treatment of sugarcane stalks with fungicides. (In Portuguese.) Brasil Açucareiro 32: 352-355. Sept./Oct. 1948. 65.8 B73
- 24065 WALKER, J. C. Resistance in cucumber to scab. (Abs.) Phytopathology 39: 25. Jan. 1949. 464.8 P56
- 24066 WARMBRUNN, K. Der kurzsteinbrand eine gefahr für unseren weizen- und dinkelanbau. Württemb. Wchnbl. f. Landw. 115: 412-413. Dec. 25, 1948. 18 W96
- 24067 WELLMAN, F. L. Successful spray control of Alternaria blight of Petunias grown for seed in Costa Rica. Plant Dis. Rptr. 33: 69-72. Feb. 15, 1949. 1.9 P69P
- 24068 WHEELER, H. E., and CHILTON, S. J. P. Production of mutants in Glomerella as influenced by age of culture. (Abs.) Phytopathology 39: 25. Jan. 1949. 464.8 P56
- 24069 WHITEHEAD, M. D., THIRUMALACHAR, M. J., and DICKSON, J. G. Microascus trigonosporus from cereal and legume seeds. Phytopathology 38: 968-973. Dec. 1948. 464.8 P56
- 24070 WHITEHEAD, M. D., and DICKSON, J. G. Relation of temperature to symptom expression and laboratory diagnosis of Helminthosporium blight of oats. Assoc. Off. Seed Anal. Proc. 38: 69-73. 1948. 61.9 As7
- 24071 WILSON, J. D., and RUNNELS, H. A. Tomato anthracnose control in 1948. (Abs.) Phytopathology 39: 26. Jan. 1949. 464.8 P56
- 24072 YOUNG, P. A. Symptoms and resistances of crop plants to charcoal rot and ashy stem blight. (Abs.) Phytopathology 39: 27. Jan. 1949. 464.8 P56
- 24073 ZENTMYER, G. A. Verticillium albo-atrum on avocado in California. Plant Dis. Rptr. 33: 42. Jan. 15, 1949. 1.9 P69P
- 24074 ZYCHA. Ist die Douglasie gefährdet? Forst u. Holz 3: 231-232. Dec. 1, 1948. 99.8 F7724
- Rhabdocline pseudotsugae.

#### Diseases Caused by Bacteria

- 24075 ABERDEEN, J. E. C. Black rot ("rust") on cabbage and cauliflowers. Queensland. Div. Plant Indus. Adv. Leaflet 137, 2 p. July 5, 1948. 423.92 Q3A
- 24076 BIRAGHI, A. Observations on bacterial wilt of corn in Italy. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 515-524. Ref. 1948. 16 An76
- Bacterium stewartii.
- 24077 BRAUN, A. C., and MANDLE, R. J. Studies on the inactivation of the tumor-inducing principle in crown gall [Agrobacterium tumefaciens]. Growth 12: 255-269. Dec. 1948. 442.8 G91
- 24078 BURKHOLDER, W. H. Bacteria as plant pathogens. Ann. Rev. Microbiol. 2: 389-412. Ref. 1948. 448.3 An72
- 24079 CASAS-CAMPILLO, C., and GUERRERO, D. Inactivación del bacteriofago de Rhizobium meliloti por bacterias aerobias esporuladas. Ciencia 8: 252-256. Ref. 1948. 475 C48
- English summary.
- 24080 COOK, H. T. Corky ringspot found in potatoes from Indiana. Plant Dis. Rptr. 33: 95. Feb. 15, 1949. 1.9 P69P
- 24081 DAINES, R. H. Three years' tests with various compounds for control of bacterial spot [Xanthomonas pruni] of peach. (Abs.) Phytopathology 39: 5-6. Jan. 1949. 464.8 P56
- 24082 DE ROPP, R. S. The movement of crown-gall bacteria in isolated stem fragments of sunflower. Phytopathology 38: 993-998. Dec. 1948. 464.8 P56
- 24083 DIMOND, A. E., and STODDARD, E. M. Combating bean blight [Xanthomonas phaseoli] chemotherapeutically with benzoic acid and the salicylates. (Abs.) Phytopathology 39: 6. Jan. 1949. 464.8 P56
- 24084 GALLEGLY, M. E. Host nutrition and predisposition in relation to development of bacterial [Pseudomonas solanacearum] wilt of tomato. (Abs.) Phytopathology 39: 7. Jan. 1949. 464.8 P56
- 24085 HAVAS, L. J. Curative effects of darkening stem tips upon phyto-carcinomata. Arch. Biol. Hungar. (Ser. 2) 17: 141-148. Ref. 1947. 442.9 M27
- Effect of capping stem tips with black cloth or paper on crown gall of tomato.
- 24086 HOLLIS, J. P. Location of bacteria in healthy potato tissue. (Abs.) Phytopathology 39: 9-10. Jan. 1949. 464.8 P56
- 24087 KING, C. J., and BRINKERHOFF, L. A. The dissemination of Xanthomonas malvacearum by irrigation water. Phytopathology 39: 88-90. Jan. 1949. 464.8 P56
- Attacking cotton.
- 24088 LACEY, M. S. Studies on Bacterium fascians. V. Ann. Appl. Biol. 35: 572-581. Dec. 1948. 442.8 An72
- Effect on seedlings of sweetpeas, beans, etc.
- 24089 LARSH, H. W., and ANDERSON, H. W. Bacterial spot of stone fruit with special reference to epiphytotics and dissemination of the causal organism. III. Agr. Expt. Sta. B. 530, 54 p. Ref. Nov. 1948. 100 IL6S
- Caused by Xanthomonas pruni.
- 24090 LEDING, A. R., and BRINKERHOFF, L. A. The effect of soaking cotton seed on the incidence of angular leaf spot in New Mexico and Arizona. Phytopathology 38: 974-977. Dec. 1948. 464.8 P56
- Xanthomonas malvacearum.
- 24091 LUCE, W. A. Careful pruning needed to control pear blight. Better Fruit 43(7): 7, 24. Jan. 1949. 80 B46
- 24092 MCKNIGHT, T. Scab disease of Gladiolus. Queensland. Div. Plant Indus. Adv. Leaflet 135, 2 p. Apr. 9, 1948. 423.92 Q3A
- Caused by Bacterium marginatum.
- 24093 SCHOBBER, K. Landwirte, achtet auf den kartoffelkrebs! Burgenländische Bauernbündler 1(16): 9. Sept. 10, 1948. 19 B91



- 24094 SMITH, W. L., JR. Some specific characters of *Erwinia atroseptica* and *Erwinia carotovora*. (Abs.) *Phytopathology* 39: 22-23. Jan. 1949. 464.8 P56
- 24095 SUTTON, W. S. Bacterial spot of tomatoes. *Agr. Gaz. N. S. Wales* 59: 595-597. Nov. 1, 1948. 23 N472
- 24096 TERVET, I. W., and HOLLIS, J. P. Bacteria in the storage organs of healthy plants. *Phytopathology* 38: 960-967. Ref. Dec. 1948. 464.8 P56
- 24097 WATSON, R. D. Control of bacterial blight on carrots in Idaho. *Seed World* 63(12): 8-10, 36. Dec. 21, 1948. 61.8 Se52

#### Viruses and Virus Diseases

- 24098 ABERDEEN, J. E. C. Big bud in tomatoes. *Queensland Agr. J.* 67: 213-214. Oct. 1948. 23 Q33
- 24099 ALI, M. A. K. Genetics of resistance to the common bean mosaic virus (bean virus 1) in the bean (*Phaseolus vulgaris* L.). (Abs.) *Phytopathology* 39: 1. Jan. 1949. 464.8 P56
- 24100 ATKINSON, R. E. Western wheat mosaic in Colorado and its transmission by the grain aphid *Toxoptera graminum*. (Abs.) *Phytopathology* 39: 2. Jan. 1949. 464.8 P56
- 24101 BAWDEN, F. C., and ROBERTS, F. M. Photosynthesis and predisposition of plants to infection with certain viruses. *Ann. Appl. Biol.* 35: 418-428. Sept. 1948. 442.8 An72
- 24102 BLACK, L. M. Multiplication of clover clubleaf virus (*Aureogenus clavifolium*) in its insect vector [*Agallioptis novella*]. (Abs.) *Phytopathology* 39: 2-3. Jan. 1949. 464.8 P56
- 24103 BOHN, G. W. Breeding muskmelons for resistance to mosaic. *Plant Dis. Rptr. Sup.* 180: 10-13. Jan. 30, 1949. 1.9 P69P
- 24104 BOYD, O. C. A ring spot virus disease of pepper in Massachusetts. *Plant Dis. Rptr.* 32: 518-519. Dec. 15, 1948. 1.9 P69P
- 24105 BOYLE, J. S., MOORE, J. D., and KEITT, G. W. Comparative studies of a virus disease of cucumber transmitted mechanically from sour cherry and several cucumber virus diseases. (Abs.) *Phytopathology* 39: 3. Jan. 1949. 464.8 P56
- 24106 BROADBENT, L., and GREGORY, P. H. Experiments on the spread of rugose mosaic and leaf roll in potato crops in 1946. *Ann. Appl. Biol.* 35: 395-405. Sept. 1948. 442.8 An72
- 24107 BROWN, L. Pecan rosette. *Ala. Polytech. Inst. Agr. Ext. C.* 364, 4 p. Nov. 1948. 275.29 AL1C
- 24108 CASTELLANI, E. Soybean viruses. (In Italian.) *Olearia* 2: 838-844. Ref. Dec. 1948. 307.8 OL2
- 24109 CATION, D. Transmission of cherry yellows virus complex through seeds. *Phytopathology* 39: 37-40. Jan. 1949. 464.8 P56
- 24110 COMMONER, B. Some studies of the effects of viruses on the metabolism of infected plants. (Abs.) *Amer. J. Bot.* 35: 808. Dec. 1948. 450 Am36
- Experiments with Coleus.
- 24111 CROWTHER, H. A. H. Control of virus disease; the growth of satisfactory, virus-free potatoes is primarily a matter of aphid control. *Common-Tater* 1948: 8-9. Dec. 1948. 75.8 C73
- 24112 DALE, W. T. Observations on a virus disease of certain crucifers in Trinidad. *Ann. Appl. Biol.* 35: 598-604. Ref. Dec. 1948. 442.8 An72
- Transmitted by *Rhopalosiphum pseudobrassicae*.
- 24113 ERNOULD, L. Y aurait-il une nouvelle maladie à virus, de la betterave, en Belgique? Note préliminaire. *Inst. Belge pour l'Amélior. de la Betterave*. P. 16: 277-280. Sept./Oct. 1948. 66.9 In7
- English summary.
- 24114 GIDDINGS, N. J. Some studies of curly top of flax. *Phytopathology* 38: 999-1002. Dec. 1948. 464.8 P56
- 24115 GREGORY, P. H. The effect of roguing on the spread of virus diseases in potatoes at Rothamsted in 1946. *Ann. Appl. Biol.* 35: 406-411. Sept. 1948. 442.8 An72
- 24116 GROGAN, R. G., and WALKER, J. C. A pod-distorting strain of the yellow mosaic virus of bean. *J. Agr. Res.* 77: 301-314. Ref. Dec. 1/15, 1948. 1 Ag84J
- 24117 GROGAN, R. G., and WALKER, J. C. The relation of common mosaic to black root of bean. *J. Agr. Res.* 77: 315-331. Ref. Dec. 1/15, 1948. 1 Ag84J
- 24118 HAGEDORN, D. J., and WALKER, J. C. Cross protection tests between the Wisconsin pea streak virus and several strains of bean virus 2 from pea. (Abs.) *Phytopathology* 39: 9. Jan. 1949. 464.8 P56
- 24119 HOLDEN, M., and TRACEY, M. V. The effect of infection with tobacco-mosaic virus on the levels of nitrogen, phosphorus, protease, and pectase in tobacco leaves and on their response to fertilizers. *Biochem. J.* 43: 151-156. 1948. 382 B52
- 24120 HOLMES, F. O. Serial mutations of tobacco-mosaic virus. (Abs.) *Phytopathology* 39: 10. Jan. 1949. 464.8 P56
- 24121 JOHNSON, J. The number of strains of the tobacco mosaic virus. (Abs.) *Phytopathology* 39: 11. Jan. 1949. 464.8 P56
- 24122 JOHNSON, J. Virus particles in vascular contents. (Abs.) *Phytopathology* 39: 11. Jan. 1949. 464.8 P56
- 24123 KOSTOFF, D. Cytogenetics of *Nicotiana tabacum* var. *virii* resistant to the common tobacco mosaic virus. *Cur. Sci.* 17: 315-316. Nov. 1948. 475 Sci23
- 24124 LADEBURG, R. C., and LARSON, R. H. Reaction of potato varieties to the virulent ringspot virus. (Abs.) *Phytopathology* 39: 12. Jan. 1949. 464.8 P56
- 24125 LARSON, R. H., and LADEBURG, R. C. Isolation of virulent ringspot virus from "healthy" potatoes. (Abs.) *Phytopathology* 39: 12. Jan. 1949. 464.8 P56
- 24126 MCKINNEY, H. H. Wheats immune from soil borne mosaic viruses in the field, susceptible when inoculated manually. *Phytopathology* 38: 1003-1013. Ref. Dec. 1948. 464.8 P56
- 24127 MCWHORTER, F. P., and PRICE, W. C. Evidence that two different plant viruses can multiply simultaneously in the same cell. *Science* 109: 116-117. Feb. 4, 1949. 470 Sci2
- 24128 MCWHORTER, F. P., and HARDISON, J. R. Record and diagnosis of subclover severely injured by yellow bean mosaic virus. *Plant Dis. Rptr.* 33: 86-88. Feb. 15, 1949. 1.9 P69P
- 24129 MARAMOROSCH, K. The influence of temperature on the incubation of the wound-tumor virus [*Aereogenus magnivena*] in the insect *Agallia constricta*. (Abs.) *Phytopathology* 39: 14. Jan. 1949. 464.8 P56
- 24130 MATSUMOTO, T., and LEE, C. H. A simple method of preserving tobacco-mosaic sera. *Phytopathology* 38: 1031-1032. Dec. 1948. 464.8 P56
- 24131 MIDDLETON, J. T. The cantaloupe mosaic disease. *Plant Dis. Rptr. Sup.* 180: 2-3. Jan. 30, 1949. 1.9 P69P
- 24132 MONTGREMIER, H. A. DE, and MOREL, G. Sur la diminution de la teneur en virus (Marmor tabaci Holmes) de tissus de tabac cultivés in vitro. *Paris. Acad. des Sci. Compt. Rend.* 227: 688-689. Oct. 4, 1948. 505 P21
- 24133 MOORE, E. L., LUCAS, G. B., and CLAYTON, E. E. Occurrence of etch on flue cured tobacco in North Carolina. *Plant Dis. Rptr.* 33: 77. Feb. 15, 1949. 1.9 P69P
- 24134 MOORE, J. D., and KEITT, G. W. An indexing method for necrotic ring spot and yellows of sour cherry. (Abs.) *Phytopathology* 39: 15-16. Jan. 1949. 464.8 P56
- 24135 NIKELL, L. G., and BURKHOLDER, P. R. Growth responses of Rumex virus wound tumor in tissue culture. (Abs.) *Amer. J. Bot.* 35: 811. Dec. 1948. 450 Am36
- 24136 ORSENGO, M. Plant viruses. (In Italian.) *Gior. di Agr.* 59: 11. Jan. 9, 1949. 16 It1G
- 24137 POST, K. Stock selection to control mum stunt. *Canad. Florist* 43(24): 11-12. Dec. 15, 1948. 80 C163
- 24138 POUND, G. S. Effect of air temperature on virus concentration and leaf morphology of mosaic-infected horseradish. (Abs.) *Phytopathology* 39: 18. Jan. 1949. 464.8 P56
- 24139 POUND, G. S. Watermelon mosaic in Wisconsin. (Abs.) *Phytopathology* 39: 19. Jan. 1949. 464.8 P56
- 24140 RADEMACHER, B. Starke ertragsverluste an kohlrüben durch eine viruskrankheit in Württemberg. *Württemb. Wchnbl. f. Landw.* 116: 6-7. Jan. 1, 1949. 18 W96
- 24141 RICHARDS, B. L., HUTCHINS, L. M., and REEVES, E. L. The western "X" virus a cause of "little cherry" in Utah. (Abs.) *Phytopathology* 39: 19. Jan. 1949. 464.8 P56



24142 RIOLLANO, A., ADSUAR, J., and RODRIGUEZ, A. Breeding peppers resistant to a Puerto Rican type of mosaic. *Rev. de Agr. de Puerto Rico* 39(1): 108-109. Jan./June 1948. 8 R325

24143 ROSS, A. F. Factors affecting lesion formation on *Physalis floridana* inoculated with potato virus Y. (Abs.) *Phytopathology* 39: 20-21. Jan. 1949. 464.8 P56

24144 SCHACHMAN, H. K., and KAUZMANN, W. J. Viscosity and sedimentation studies on tobacco mosaic virus. *J. Phys. & Colloid Chem.* 53(1): 150-162. Ref. Jan. 1949. 381 J822

24145 SELF, R. L., and DARLING, H. M. Transmission of purple-top of potatoes. (Abs.) *Phytopathology* 39: 22. Jan. 1949. 464.8 P56

24146 SHERF, A. F. Occurrence of tomato spotted wilt in Nebraska in 1948. *Plant Dis. Rptr.* 32: 509. Dec. 15, 1948. 1.9 P69P

24147 STEERE, R. L., and WILLIAMS, R. C. Electron microscope evidence on the mechanism of multiplication of tomato bushy-stunt virus. (Abs.) *Phytopathology* 39: 23. Jan. 1949. 464.8 P56

24148 STEERE, R. L., and WILLIAMS, R. C. A simplified method for purifying tomato bushy-stunt virus for electron microscopy. *Phytopathology* 38: 948-954. Dec. 1948. 464.8 P56

24149 STODDARD, E. M., and DIMOND, A. E. Malachite green suppresses symptom expression of tobacco mosaic virus in tomato. (Abs.) *Phytopathology* 39: 24. Jan. 1949. 464.8 P56

24150 SUGAR BEET RESEARCH AND EDUCATION COMMITTEE. Sugar beet yellows and the mangold crop. *Gt. Brit. Min. Agr. Agriculture* 55: 450-452. Jan. 1949. 10 G79J

24151 SWIFT, J. E. Vectors concerned in transmission of cantaloupe mosaic in the Imperial Valley. *Plant Dis. Rptr. Sup.* 180: 4-5. Jan. 30, 1949. 1.9 P69P

24152 WAGENINGEN. PLANTENZIEKTENKUNDIG DIENST. Virusziekten bij aardappelen en het winnen van gezond pootgoed [Virus diseases of potato and securing good seed potatoes]. *Netherlands. Plantenziektenkund. Dienst. Vlugsch.* 53, 8 p. May 1949. 464.9 W12V

24153 WHITAKER, T. W. Suggestions for future research. *Plant Dis. Rptr. Sup.* 180: 14-15. Jan. 30, 1949. 1.9 P69P

Cantaloupe mosaic investigations in Imperial Valley.

24154 WILKINSON, R. E., and ROSS, A. F. The effect of various diluents on the infectivity of the potato X virus. (Abs.) *Phytopathology* 39: 25-26. Jan. 1949. 464.8 P56

24155 WILLIAMS, R. C., and STEERE, R. L. Electron micrographs of tobacco mosaic virus in crude expressed sap. (Abs.) *Phytopathology* 39: 26. Jan. 1949. 464.8 P56

24156 WINTER, A. G. Untersuchungen über crucifereviren. *Bot. Cecon.* 1: 19-37. Ref. July 1948. 450 B6528

English, French, and Russian summaries.

#### Diseases Caused by Nematodes

24157 BAKER, A. D. Some notes on experimental infestation of potato tubers with the potato-rot nematode, *Ditylenchus destructor* Thorne, 1945. *Ontario Ent. Soc. Ann. Rpt.* (1947) 78: 32-38. 1948. 420 On8

24158 BINGEFORS, S. Crop rotation and the clover nematodes. (In Swedish.) *Lantmannen* 32: 757-758. Nov. 13, 1948. 11 L234

24159 BIRCHET, J. La lutte contre les "anguillules" par l'emploi de porte-greffes résistants. *Fruits et Primeurs de l'Afrique du Nord*, Ed. Maroc. 19(198): 6-8. Jan. 1949. 80 F9482

24160 CHRISTIE, J. R., and HAVIS, L. Relative susceptibility of certain peach stocks to races of the root-knot nematode. *Plant Dis. Rptr.* 32: 510-514. Dec. 15, 1948. 1.9 P69P

24161 COURANJOU, A. Un ennemi redoutable des jeunes orangers; l'anguillule des racines: "slow decline," de Californie, "spreading decline," de Floride. *Fruits et Primeurs de l'Afrique du Nord*. Ed. Maroc. 18: 374-375. Dec. 1948. 80 F9482

24162 CRALLEY, E. M. White tip of rice. (Abs.) *Phytopathology* 39: 5. Jan. 1949. 464.8 P56

Probably due to nematodes.

24163 GRAHAM, T. W. Nematode root rot of tobacco and other crops. (Abs.) *Phytopathology* 39: 8. Jan. 1949. 464.8 P56

Caused by *Pratylenchus* spp.

24164 HITCHINS, P. E. N. Some recent experiences with DD. *Fruit-Grower* 106: 673. Nov. 25, 1948. 80 F941

For tomato nematodes.

24165 JOFFILY, J. M. A doença do anel vermelho do coqueiro e sua ocorrência no Brasil [Red ring of coconut and its occurrence in Brazil]. *Brazil. Serv. Nac. de Pesquisas Agron.* B. 3, 64 p. Ref. Feb. 1948. 9.2 B738

24166 LUBATTI, O. F., and SMITH, B. Determination of fumigants. XIX. Sorption of methyl bromide by onion seed. *Soc. Chem. Indus. J.* 67: 297-309. Ref. Aug. 1948. 382 M31

For nematode control.

24167 LUBATTI, O. F., RUSSELL, J., and PORTER, J. S. Fumigation of agricultural products. I. A fumigation chamber for onion seeds. *Soc. Chem. Indus. J.* 67: 309-313. Aug. 1948. 382 M31

For nematode control.

24168 MORENO, A. F. Anguilulosis de la raíz. *Campo y Suelo Argentino* 32(386): 33. Dec. 1948. 9 C15

*Heterodera marioni*.

24169 SCHOW, F. Nematode's nemesis. *Sugar Beet* 7(8): 18-19. Dec. 1948. 66.8 Su34B

Fumigation with DD.

24170 SERR, E. F., and DAY, L. H. Lesion nematode injury to walnut trees. *Diamond Walnut News* 31: 6-8. Jan. 1949. 94.68 D34

24171 TARJAN, A. C. Utilization of the Baermann method as a means of assay of root infection by meadow nematodes, *Pratylenchus* spp. (Abs.) *Phytopathology* 39: 24. Jan. 1949. 464.8 P56

24172 VALLE GARIBÍ, E. DEL. Los nematelmintos en la agricultura y en la ganadería. *Chapingo* 24: 77-79; 25: 118-119, 134. Aug.-Sept. 1948. 102 C36

#### ECOLOGY

24173 ARENS, K., and PEDRAITA, M. Noticia ecológica sobre *Brassavola tuberculata* Hook [Ecological note on *Brassavola tuberculata* Hook]. *Mus. Nac. B. Nov. Sér. Bot.* 10, 8 p. June 5, 1948. 516 R47Bb

24174 CHAPMAN, V. J. The application of aerial photography to ecology as exemplified by the natural vegetation of Ceylon. *Indian Forester* 73: 287-314. Ref. July 1947. 99.8 In2

24175 DANSEREAU, P. A classification of vegetation upon a structural basis, with special reference to the taiga. *Amer. J. Bot.* 35: 790-791. Dec. 1948. 450 Am36

24176 ENTZ, B. Qualitative and quantitative studies in the coatings of *Potamogeton perfoliatus* and *Myriophyllum spicatum* in Lake Balaton. *Arch. Biol. Hungar.* (Ser. 2) 17: 17-37. 1947. 442.9 M27

24177 FELSÖLDY, L. Soziologisch-cytogeographische untersuchungen über die pannonische ruderalvegetation. *Arch. Biol. Hungar.* (Ser. 2) 17: 104-130. Ref. 1947. 442.9 M27

24178 FOSBERG, F. R. Atoll vegetation and salinity. *Pacific Sci.* 3: 89-92. Jan. 1949. 475 P11

24179 GILBERT, L. Natural history of a ghost town. *Victorian Nat.* 65: 123-124. Sept. 1948. 410 V66

Includes plants.

24180 GILLMAN, C. A vegetation-types map of Tanganyika Territory. *Geog. Rev.* 39: 7-37. Jan. 1949. 500 Am35G

24181 HERMIER, R. Le marais Vernier. *Rev. des Eaux et Forêts* 87: 469-495. Dec. 1948. 99.8 R322

An ecological study.

24182 LOMMASSON, T. Succession in sagebrush. *J. Range Mangt.* 1: 19-21. Oct. 1948. 60.18 J82

24183 MATHON, C. C. A propos de la phytosociologie. *Rev. Gen. des Sci. Pures et Appl.* 55: 233-236, 239. 1948. 473 R324

24184 PENDLETON, R. C. The rain shadow effect on the plant formations of Guadalcanal. *Ecol. Monog.* 19(1): 75-93. Ref. Jan. 1949. 410 Ec72

Vegetation on the leeward side of Mt. Popomanasiu and adjoining mountains.

24185 POPLAVSKÁ, G. I. Ekologifā rastenī [Plant ecology]. Ed. 2, rev. and enl. Moskva, "Sovetskaiā Nauka, 1948. 295 p. 463.8 P81

24186 PROHASKA, F. Das kugelpyranometer Bel-lani, ein einfaches strahlungsmessgerät für biologische und ökologische untersuchungen. *Schweiz. Bot. Gesell. Ber.* 57: 101-114. 1947. 451 Sch9

French summary.



24187 RIKLI, M. Das pflanzenkleid der Mittelmeerlande. Bern, Huber, 1948. v. 3, p. 1095-1418. 459.8 R447P

24188 ROBERSON, F. K. And everyone looked in his neighbor's face. Northwest Gard. & Homes 16(10): 10-11. Dec. 1948. 80 N813  
Plant ecology.

24189 SMITH, J. E. Natural vegetation in the Willamette Valley, Oregon. Science 109: 41-42. Jan. 14, 1949. 470 Sci2

24190 SNYDER, W. C., and HANSEN, H. N. Ecologic variability in fungi. (Abs.) Amer. J. Bot. 35: 803. Dec. 1948. 450 Am36

24191 STEENIS, C. G. G. J. VAN. The composition of the vegetation of the Indian archipelago. (In Dutch.) Tectona 38: 215-218. 1948. 99.8 B65

24192 UPHOF, J. C. T. Along the timber line of the Rocky Mountains in Colorado. (In Dutch.) Nederland. Dendrol. Ver. Jaarb. 16: 65-75. Ref. 1947. 99.9 N28

24193 VOUK, V. Thermal-vegetation and ecological-valences theory. Hydrobiologia 1: 90-95. Aug. 15, 1948. 410 H992

24194 VRIES, V. DE. Some observations on the ecology of the common seabuckthorn. (In Dutch.) Nederland. Dendrol. Ver. Jaarb. 16: 48-64. Ref. 1947. 99.9 N28

English summary.

24195 WALDHEIM, S. Kleinmoosgesellschaften und bodenverhältnisse in Schonen. Lund, 1947. 103 p. 461.31 W14

24196 WILLIAMS, C. B. Jaccard's generic coefficient and coefficient of floral community, in relation to the logarithmic series and index of diversity. Ann. Bot. [London] (n. s.) 13: 53-58. Ref. Jan. 1949. 450 An7

#### MORPHOLOGY, ANATOMY, AND CYTOLOGY

24197 ALLEN, P. J. Growth and metabolism of the sporidial stage of Ustilago sphaerogena. (Abs.) Amer. J. Bot. 35: 799. Dec. 1948. 450 Am36

24198 ATCHISON, E. Studies in the leguminosae. II. Cytogeography of Acacia (Tourn.) L. Amer. J. Bot. 35: 651-655. Ref. Dec. 1948. 450 Am36

24199 AYCOCK, R. Studies on the perithecial stage of Physalospora obtusa. (Abs.) Phytopathology 39: 2. Jan. 1949. 464.8 P56

24200 AYYANGAR, G. S. Some observations on stomata found on cotton ovules. Indian Cotton Growing Rev. 2: 187-192. Ref. Oct. 1948. 72.8 In23

24201 BAILEY, I. W. Degeneria and the form of the primitive ranalian carpel. (Abs.) Amer. J. Bot. 35: 815. Dec. 1948. 450 Am36

24202 BALASUBRAHMANYAN, R., and RANGASWAMI, T. V. Contabescent anthers and hollow seeds in cotton. Indian Cotton Growing Rev. 2: 193-198. Oct. 1948. 72.8 In23

24203 BALDWIN, J. T., JR. Polyploidy in Passiflora lutea. Rhodora 51: 29. Feb. 1949. 450 R34

24204 BERTRAND, P. Les végétaux vasculaires, introduction à l'étude de l'anatomie comparée. Paris, Masson, 1947. 184 p. 463.41 B46

24205 BLOCH, R. The development of the secretory cells of Ricinus and the problem of cellular differentiation. Growth 12: 271-284. Ref. Dec. 1948. 442.8 G91

24206 BROWN, W. V. A cytological study of cleistogamous Stipa leucotricha. (Abs.) Amer. J. Bot. 35: 790. Dec. 1948. 450 Am36

24207 CAIN, S. A., and CAIN, L. G. Size-frequency characteristics of Pinus echinata pollen. Bot. Gaz. 110: 325-330. Ref. Dec. 1948. 450 B652

24208 CANRIGHT, J. E. Trends of specialization in the stamens of the Magnoliaceae. (Abs.) Amer. J. Bot. 35: 790. Dec. 1948. 450 Am36

24209 CARLETTI, G. M. Morfologia dos cromossomos de Theobroma leiocarpa [Morphology of the chromosomes of Theobroma leiocarpa]. Mus. Nac. B. Nov. Sér. Bot. 9, 5 p. May 28, 1948. 516 R47Bb

24210 CHADEFAUD, M. Sur la morphologie des zoospores des Phaeophycées. Paris. Acad. des Sci. Compt. Rend. 227: 1258-1260. Dec. 8, 1948. 505 P21

24211 CLARK, M. B. Correlating the anatomy of Spermatophytes. (Abs.) Amer. J. Bot. 35: 789. Dec. 1948. 450 Am36

24212 COX, H. T. Studies in the comparative anatomy of the Ericaceae. II. Ericaceae-subfamily Arbutioideae. Amer. Midland Nat. 40: 493-516. Sept. 1948. 410 M58

24213 CUENOD, A. Phyllotaxie chez Opuntia ficus indica Mill. et chez les Renonculacées. Soc. d'Hist. Nat. de l'Afrique du Nord, B. 38(1/9): 51-57. Jan./Dec. 1947. 410.9 S0125

24214 DAVIS, T. A. Abnormal bananas of Travan-core. II. A banana plant (Musa paradisiaca L.) with four-bunched inflorescence. Bombay Nat. Hist. Soc. J. 47: 700-704. Ref. Aug. 1948. 513 B63

24215 DAVIS, T. A. Abnormal palms of Travancore. IV. Polycarpy in a coconut (Cocos nucifera L.). Bombay Nat. Hist. Soc. J. 47: 704-706. Ref. Aug. 1948.

24216 DELAPORTE, B. Cytological studies of bacterial spores. (Abs.) Amer. J. Bot. 35: 799-800. Dec. 1948. 450 Am36

24217 DITTMER, H. J., and REINHART, J. Root hair development on Gymnosperm seedlings. (Abs.) Amer. J. Bot. 35: 791. Dec. 1948. 450 Am36

24218 EDGERTON, C. W., WHEELER, H. E., and OLIVE, L. S. Crozier and ascus development in Glomerella. (Abs.) Amer. J. Bot. 35: 800. Dec. 1948. 450 Am36

24219 EYMÉ, J. Observations sur la cytologie du sporogone des mousses. Paris. Acad. des Sci. Compt. Rend. 227: 1399-1401. Dec. 20, 1948. 505 P21

24220 FAGERLIND, F. Bau und entwicklung der vegetativen organe von Balanophora. Svenska Vetenskapsakad. Handl. (ser. 3) 25(3), 72 p. Ref. 1948. 502 St6H

24221 FINCHAM, J. R. S. Chromosome numbers in species of Neurospora. Ann. Bot. [London] (n. s.) 13: 23-28. Ref. Jan. 1949. 450 An7

24222 GAUSSEN, H. Interprétation de l'échelle du cônes des Conifères. Paris. Acad. des Sci. Compt. Rend. 227: 731-733. Oct. 11, 1948. 505 P21

24223 GAWADI, A., and AVERY, G. S., JR. Leaf abscission and the abscission layer. (Abs.) Amer. J. Bot. 35: 792. Dec. 1948. 450 Am36

24224 GEITLER, L. Über die teilungsrhythmen in den spermatogenen fäden der Characeen. Österr. Bot. Z. 95: 147-162. 1948. 450 Os7

24225 GOODALL, D. W. A quantitative study of the early development of the seedling of cacao (Theobroma cacao). Ann. Bot. [London] (n. s.) 13: 1-21. Ref. Jan. 1949. 450 An7

24226 HANNA, W. F., and HURST, E. M. Sex in Ustilago lorentziana. (Abs.) Phytopathology 39: 9. Jan. 1949. 464.8 P56

24227 HECHT, A. The somatic chromosomes of Sarracenia. Torrey Bot. Club. B. 76: 7-9. Ref. Jan./Feb. 1949. 451 T63B

24228 HEIBA, A. S. Differentiating between Gossypium hairs (fuzz and lint) in the early stages of development. (Abs.) Amer. J. Bot. 35: 793. Dec. 1948. 450 Am36

24229 HEIBA, A. S. Multicellular hairs in Gossypium. (Abs.) Amer. J. Bot. 35: 793. Dec. 1948. 450 Am36

24230 HEIMSCH, C. Development of vascular tissue in barley roots. (Abs.) Amer. J. Bot. 35: 794. Dec. 1948. 450 Am36

24231 HEIMSCH, C., RABIDEAU, G. S., and WHALEY, W. G. Vascular development and differentiation in inbred and hybrid maize. (Abs.) Amer. J. Bot. 35: 794. Dec. 1948. 450 Am36

24232 HIGGINS, E. C. Frequency of multiple sprouts in some seeds. Assoc. Off. Seed Anal. Proc. 38: 68-69. 1948. 61.9 As7

24233 HOLTTUM, R. E. The spikelet in Cyperaceae. Bot. Rev. 14: 525-541. Ref. Oct. 1948. 450 B6527

24234 HUSKINS, C. L. Segregation and reduction in somatic tissues. J. Hered. 39: 311-325. Ref. Nov. 1948. 442.8 Am8

I. Initial observations on Allium cepa.

24235 IAKOVLEV, M. S. Russian morphologists of the first half of the 19th century. (In Russian.) Priroda 37(10): 94-95. Oct. 1948. 410 P933

Chiefly on Nikolai Ivanovich Zheleznov's contributions in plant morphology.

24236 INGRAM, C. Remarkable habit of growth in the seedling Metasequoia. Gard. Chron. 124: 198. Dec. 18, 1948. 80 G162

24237 JOSHI, A. C. The morphology of the gynoecium. Sci. and Cult. 12(Sup.): 6. Mar. 1947. 475 Sci24

24238 KNOLL, F. Bau, entwicklung und morphologische bedeutung unifazialer vorläuferspitzen an monokotylenblättern. Österr. Bot. Z. 95: 163-193. Ref. 1948. 450 Os7



- 24239 KRAUSS, B. H. Anatomy of the vegetative organs of the pineapple, *Ananas comosus* (L.) Merr. Bot. Gaz. 110: 159-217. Dec. 1948. 450 B652
- 24240 KÜHNER, R. Structure microscopique de la membrane sporique des agarics du genre *Rhodophyllus* Qué. Paris. Acad. des Sci. Compt. Rend. 227: 733-734. Oct. 11, 1948. 505 P21
- 24241 LABOURIAU, L. G., and CARDOSO, J. C. The structure of the exosporium of *Lycopodium clavatum* Linn. (In Portuguese.) Acad. Bras. de Cien. An. 20: 281-285. Sept. 1948. 516 R473A
- 24242 LABOURIAU, L. G. Structure of the extine of the pollen of *Gladiolus communis* Linn. (In Portuguese.) Acad. Bras. de Cien. An. 20: 285-286. Sept. 1948. 516 R473A
- French summary.
- 24243 LARSEN, V. R., JR. The origin and development of the latex system in seedlings of *Cnidioscolus tepiquensis*. (Abs.) Amer. J. Bot. 35: 795. Dec. 1948. 450 Am36
- 24244 LA RUE, C. D. Risers on horseradish roots. (Abs.) Amer. J. Bot. 35: 795. Dec. 1948. 450 Am36
- 24245 LEIN, A. Natürliche standorte von diploidem und tetraploidem *Hordeum bulbosum* L. Züchter 19 (1/3): 6-9. 1948. 442.8 Z8
- 24246 LEMESLE, R. Particularités histologiques du xylème des rhizomes de *Xanthorrhiza apiifolia* L'Hér. et *Coptis teeta* Wall. (falsifications de l'*Hydrastis canadensis* L.). Paris. Acad. des Sci. Compt. Rend. 227: 686-687. Oct. 4, 1948. 505 P21
- 24247 LEMOS-PEREIRA, A. DE. Contribution to the study of the kariology of *Aquilegia dichroa* Frein and *A. vulgaris* L. Portugaliae Acta Biol. (ser. A) 2: 101-110. Ref. 1948. 442.8 P83
- 24248 LITARDIÈRE, R. DE. Sur deux graminées (Avenées-Airosidées) à nombre chromosomique de base égal à 4: les *Airopsis tenella* (Cav.) Coss. et DR. et *Periballia laevis* (Brot.) Asch. et Graebn. Paris. Acad. des Sci. Compt. Rend. 227: 1071-1072. Nov. 22, 1948. 505 P21
- 24249 LITTAU, V. C., and BLACK, L. M. Cytoplasmic inclusions associated with wound-tumor [Aureogenus magnivena] in *Rumex acetosa*. (Abs.) Phytopathology 39: 13. Jan. 1949. 464.8 P56
- 24250 LUHAN, M. Die goldendendormis der farne. Akad. der Wiss. Wien, Math.-Nat. Kl. Sitzber. 156: 1-56. Ref. 1947. 510 V67
- 24251 MCCLUNG, N. M. Morphological studies in the genus *Nocardia*. (Abs.) Amer. J. Bot. 35: 801. Dec. 1948. 450 Am36
- 24252 MÄCKEL, H. G. Zur mikroskopie einiger weniger bekannter lavendel-blattdrogen. Bot. Oecon. 1: 129-141. Ref. Sept. 1948. 450 B6528
- English, French, and Russian summaries.
- 24253 MAHESHWARI, P. The male gametophyte of Angiosperms. Bot. Rev. 15: 1-75. Ref. Jan. 1949. 450 B6527
- 24254 MAJUMDAR, G. P. Leaf development at the growing apex and phyllotaxis in *Heracleum*. Indian Acad. Sci. Proc. Sect. B 28: 83-98. Ref. Sept. 1948. 513 In25B
- 24255 MARENGO, N. P. The behavior of the cytoplasmic inclusions during the meiotic divisions of sporogenesis in *Onoclea sensibilis*. (Abs.) Amer. J. Bot. 35: 796. Dec. 1948. 450 Am36
- 24256 MATZKE, E. B. Three-dimensional shape changes during cell division in the epidermis of the apical meristem of *Anacharis densa* (Elodea). (Abs.) Amer. J. Bot. 35: 796. Dec. 1948. 450 Am36
- 24257 MITRA, J. N., and DATTA, R. M. A note on the development of the embryo-sac and endosperm in *Alangium begoniaefolia*, Roxb. (Marlea begoniaefolia, Roxb) Sci. and Cult. 12: 451-452. Mar. 1947. 475 Sci24
- 24258 MORELAND, D. E., and ANDERSON, D. B. An interesting epidermal cell wall. (Abs.) Elisha Mitchell Sci. Soc. J. 64: 168-169. Dec. 1948. 500 EL4
- Observations on *Aucuba japonica*.
- 24259 MOSELEY, M. F., JR. Comparative anatomy and phylogeny of the Casuarinaceae. Bot. Gaz. 110: 231-280. Ref. Dec. 1948. 450 B652
- 24260 NARASIMHACHAR, S. G. A contribution to the embryology of *Acacia farnesiana* L. (Willd.). Indian Acad. Sci. Proc. Sect. B 28: 144-149. Oct. 1948. 513 In25B
- 24261 OKIMOTO, M. C. Anatomy and histology of the pineapple inflorescence and fruit. Bot. Gaz. 110: 217-231. Ref. Dec. 1948. 450 B652
- 24262 OLIVE, L. S. Karyogamy and meiosis in the rust *Coleosporium vernoniae*. (Abs.) Amer. J. Bot. 35: 802. Dec. 1948. 450 Am36
- 24263 PACLT, J. Sur la cloison dans les capsules du genre *Catalpa* de la famille Bignoniacees. Schweiz. Bot. Gesell. Ber. 57: 115-121. 1947. 451 Sch9
- 24264 PELEGRIN, P. La formation de la fleur chez l'*Ananas* par stimulation géotropique. Fruits d'Outre Mer 3: 423-424. Dec. 1948. 80 F9492
- 24265 PRESTON, R. D., WARDROP, A. B., and NICOLAI, E. Fine structure of cell walls in fresh plant tissues. Nature [London] 162: 957-959. Dec. 18, 1948. 472 N21
- 24266 PRESTON, R. D. The fine structure of the wall of the conifer tracheid. III. Dimensional relationships in the central layer of the secondary wall. Biochim. et Biophys. Acta 2: 370-383. Ref. Oct. 1948. 381 B522
- 24267 PRYWER, L., C. Estudios citológicos de algunas especies del género *Prunus*. Chapingo 26: 152-160. Oct. 1948. 102 C36
- 24268 PUJULA, J. Cauline branches arising from accidentally aerial roots of *Fagus sylvaticus*. (In Portuguese.) Brotéria 17: 186-189. Nov. 1948. 410 B79C
- 24269 RABIDEAU, G. S., WHALEY, W. G., and HEIMSCH, C. Relationships between radioactive phosphorus absorption and the developmental pattern of inbred and hybrid maize. (Abs.) Amer. J. Bot. 35: 796-797. Dec. 1948. 450 Am36
- 24270 RAO, C. V. Development of embryo-sac in some Sterculiaceae. Cur. Sci. 17: 304-305. Oct. 1948. 475 Sci23
- 24271 REEDER, J. R. The embryo of *Streptochoeta* as additional evidence for the foliar nature of the coleoptile. (Abs.) Amer. J. Bot. 35: 797. Dec. 1948. 450 Am36
- 24272 REZENDE, F. Karyokinesis. Portugaliae Acta Biol. (ser. A) 2: 1-24. Ref. 1947. 442.8 P83
- 24273 REZENDE-PINTO, M. C. DE, and LEMOS-PEREIRA, A. DE. Concerning the probable existence of spontaneous chromatic agglutination in Pteridophyta. Portugaliae Acta Biol. (ser. A) 2: 91-96. 1948. 442.8 P83
- 24274 REZENDE-PINTO, M. C. DE. Sur la structure granulaire des chloroplastes d'*Anthoceros*. Portugaliae Acta Biol. (ser. A) 2: 115. 1948. 442.8 P83
- 24275 REZENDE-PINTO, M. C. DE. Sur la structure hélicoïdale des chloroplastes. Portugaliae Acta Biol. (ser. A) 2: 111-114. Ref. 1948. 442.8 P83
- 24276 RODRIGUEZ, C. Aspectos ópticos en el desarrollo de semillas de *Gleditschia triacanthos* L. Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An. 7: 201-214. Ref. Jan./Apr. 1948. 506 Sp12
- English summary.
- 24277 SANTAMARÍA PLAYÁ, R. Ontogenia y morfología del maíz. Chapingo 1948: 144-146, 161. (Concl.) Oct. 1948. 102 C36
- 24278 SATINA, S. Chromosome end arrangements in two races of *Datura innoxia*. (Abs.) Amer. J. Bot. 35: 797. Dec. 1948. 450 Am36
- 24279 SCHLEHUBER, A. M. Widespread occurrence of supernumerary spikelets in common wheat. Agron. J. 41: 46-47. Jan. 1949. 4 Am34P
- 24280 SERRA, J. A. Contributions to a physiological interpretation of mitosis and meiosis. I-II. Portugaliae Acta Biol. (ser. A) 2: 25-90. Ref. 1947. 442.8 P83
- I, The composition of the resting stage nucleus; II, The prophasic appearing of the chromonemata and the spiralization.
- 24281 SOUÈGES, R. Embryogénie des *Caprifoliacees*. Développement de l'embryon chez le *Symphoricarpos occidentalis* Hook. Paris. Acad. des Sci. Compt. Rend. 227: 1066-1068. Nov. 22, 1948. 505 P21
- 24282 STEINITZ, L. M. A comparative study of chromosomes of *Hemizonia virgata* Gray under greenhouse conditions and in sterile culture. (Abs.) Amer. J. Bot. 35: 797. Dec. 1948. 450 Am36
- 24283 STEWART, W. N. A study of the plastids in the cells of the mature sporophyte of *Isoetes*. Bot. Gaz. 110: 281-300. Ref. Dec. 1948. 450 B652
- 24284 SWAMY, B. G. L. Agamospermy in *Spiranthes cernua*. Lloydia 11: 149-162. Ref. Sept. 1948. 442.8 L77



24285 SWAMY, B. G. L. Further contributions to the morphology of the Degeneriaceae. *Arnold Arboretum. J.* 30: 10-38. Jan. 1949. 451 Ar6J

24286 SWAMY, B. G. L. A reinvestigation of the embryo sac of *Maianthemum canadense*. *Torrey Bot. Club. B.* 76: 17-23. Jan./Feb. 1949. 451 T63B

24287 TSCHERMAK-WOESS, E., and PLESSL, A. Über zweierlei typen der sukzedanen teilung und ein auffallendes teilungsverhalten des chromatophors bei einer neuen Protococcale, *Myrmecia pyriformis*. *Österr. Bot. Z.* 95: 194-207. Ref. 1948. 450 Os7

24288 VAN FLEET, D. S. A comparison of the woody with the herbaceous condition in the genus *Smilax* and in related monocotyledonous plants. (Abs.) *Amer. J. Bot.* 35: 798. Dec. 1948. 450 Am36

24289 WEATHERWAX, P. Right-handed and left-handed corn plants. (Abs.) *Amer. J. Bot.* 35: 798. Dec. 1948. 450 Am36

24290 ZYCHA, H. Über die kernbildung und verwandte vorgänge im holz der rotbuche. *Forstwiss. Centbl.* 67: 80-109. Ref. Nov. 1948. 99.8 F775  
*Fagus sylvatica*.

## GENETICS

24291 ÅKERMAN, Å. Genetic analysis on the black hull colour of oats. (In Swedish.) \* *Kungl. Lantbruksakad. Tidskr.* 87: 450-458. 1948. Ref. 104 Sw3  
English summary.

24292 BLANCO, J. L. Anormalidades meioticas en relación con la consanguinidad en "Zea mays" L. *Madrid*, 1948. 81 p. 463.69 B59

24293 BLAKESLEE, A. F. The Connecticut valley four-college genetics conference, a venture in cooperative education. (Abs.) *Amer. J. Bot.* 35: 789. Dec. 1948. 450 Am36

24294 BLARINGHEM, L. Stabilité des mutations accidentelles. *Paris. Acad. des Sci. Compt. Rend.* 227: 1305-1308. Dec. 20, 1948. 505 P21  
In plants.

24295 BONNER, D. M. Genes as determiners of cellular biochemistry. *Science* 108: 735-739. Dec. 31, 1948. 470 Sci2

24296 BOWDEN, W. M. Artificial hybrids of some North American species of *Lobelia*. (Abs.) *Amer. J. Bot.* 35: 789. Dec. 1948. 450 Am36

24297 BOWDEN, W. M. Triploid mutants among diploid seedling populations of *Asimina triloba*. *Torrey Bot. Club. B.* 76: 1-6. Ref. Jan./Feb. 1949. 451 T63B

24298 BRENDDEL, O. Planmässig gelenkte mutationen. *Saat u. Ernte* 3(12): 3. Dec. 1948. 18 Sa12  
Chiefly plants.

24299 BRODIE, H. J. Tetrapolarity, unilateral diploidization, and variation in fruit bodies in the bird's nest fungus *Cyathus stercoreus*. (Abs.) *Amer. J. Bot.* 35: 789-790. Dec. 1948. 450 Am36

24300 BRUMEN, A. Apuntes de genética vegetal. La degeneración de las razas puras. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 39(181): 31-32. Nov./Dec. 1948. 8 R323

24301 CHEVALIER, A. L'apparition dans la nature de mutations végétales, leur persistance ou leur extinction. *Paris. Acad. des Sci. Compt. Rend.* 227: 1126-1128. Nov. 29, 1948. 505 P21

24302 CLAUSEN, J. Ecological genetics of *Potentilla* races. (Abs.) *Amer. J. Bot.* 35: 790. Dec. 1948. 450 Am36

24303 CLELAND, R. E. A botanical nonconformist. *Sci. Monthly* 68: 35-41. Jan. 1949. 470 Sci23  
*Oenothera*.

24304 ELLIOTT, F. C., and WILSIE, C. P. A fertile polyploid in *Bromus inermis*. *J. Hered.* 39: 377-380. Dec. 1948. 442.8 Am3

24305 FARGHALY, A. H., MILLER, H., and MCELROY, W. D. A method for the selection of biochemical mutants in luminous bacteria. (Abs.) *Amer. J. Bot.* 35: 809. Dec. 1948. 450 Am36

24306 FRANKEL, O. H., and FRASER, A. S. Basal sterile mutants in speltoid wheat. *Heredity* 2: 391-397. Dec. 1948. 443 H42

24307 GARDELLA, C. A. Relative times of mitosis in pollen tubes of ten species of *Datura*. (Abs.) *Amer. J. Bot.* 35: 792. Dec. 1948. 450 Am36

24308 GILES, N. H., JR. Induced reversions of inositol-requiring mutants in *Neurospora crassa*. (Abs.) *Amer. J. Bot.* 35: 800-801. Dec. 1948. 450 Am36

24309 HANDLER, H. Triploid hybrids of three species of *Datura*. (Abs.) *Amer. J. Bot.* 35: 793. Dec. 1948. 450 Am36

24310 HIEMELEERS, J. Cross pollination in America. (In Flemish.) *Tuinbouwberichten* 12: 174, 173. Nov. 15, 1948. 80 T817

24311 JOSHI, P. C. Self-sterility in three species of *Brugmansia* (tree *Daturas*). (Abs.) *Amer. J. Bot.* 35: 794. Dec. 1948. 450 Am36

24312 LARSSON, N. G. Malmöhus Province Agricultural Association's plant breeding experiments 1947. (In Swedish.) *Malmöhus Läns Hushållningssällsk. Kvrtlsskr.* 1948: 166-219. 11 M29

24313 LEWIS, D. Problems and policy in plant breeding. *Nature [London]* 163: 51-53. Jan. 8, 1949. 472 N21

Second annual Conference of Plant Breeders at John Innes Horticultural Institution.

24314 LILLY, V. G., and BARNETT, H. L. The inheritance of partial thiamine deficiency in *Lenzites trabea*. *J. Agr. Res.* 77: 287-300. Ref. Dec. 1/15, 1948. 1 Ag84J

24315 LINDEGREN, C. C. Genetics of the fungi. *Ann. Rev. Microbiol.* 2: 47-70. Ref. 1948. 448.3 An72

24316 LINDEGREN, C. C., and LINDEGREN, G. Unusual gene-controlled combinations of carbohydrate fermentations in yeast hybrids. *Natl. Acad. Sci. Proc.* 35: 23-27. Jan. 1949. 500 W21P

24317 LYSENKO, T. D. *Agrobiologiya; raboty po voprosam genetiki, selektsii i semenovodstva [Agrobiology; research on problems of genetics, selection and seed production]*. Ed. 3, enl. Moskva, Sel'khozgiz, 1948. 463 p. 463 L922

24318 MOLODCHIKOV, A. I. *Preobrazovateli prirody [Transformers of nature]*. Moskva, Gos. Izd-vo Kul'turno-prosvetitel'noy Lit-ry, 1948. 147 p. 463.6 M73

Burbank, Darwin, Lysenko, and Michurin.

24319 NIELSEN, B. F. Heresy in Soviet. (In Danish.) *Haven* 49: 23-25. Feb. 1949. 80 H29  
A discussion of Lysenko's theory on genetics.

24320 POMPER, S. Studies on the biochemical genetics of yeast. (Abs.) *Amer. J. Bot.* 35: 802. Dec. 1948. 450 Am36

24321 RAPER, K. B., and FENNEL, D. I. Strain intermixture in *Aspergillus fonsecaeus*. (Abs.) *Amer. J. Bot.* 35: 802. Dec. 1948. 450 Am36

24322 ROEVER, W. E. On the site of discovery of the "male sterile" John Baer tomato mutant. *Science* 109: 69. Jan. 21, 1949. 470 Sci2

24323 SCHRÖCK, O. Der gegenwärtige stand der steinkleezüchtung. *Züchter* 19(1/3): 59-68. Ref. 1948. 442.8 Z8

24324 SCHWANITZ, F. Untersuchungen an polyploiden pflanzen. I. Feldversuche mit diploiden und autotetraploiden nutzpflanzen. (Senf, rübsen, ölrettich, rettich grünkohl, weisskohl, wirsing und chicoree.). *Züchter* 19(1/3): 70-86. Ref. 1948. 442.8 Z8

24325 SIMONET, M. Régularisation et augmentation de la fertilité chez certains *Aegilotriticum*. I. *Aegilops ventricosa* x *Triticum timopheevii*. *Paris. Acad. des Sci. Compt. Rend.* 227: 1417-1418. Dec. 20, 1948. 505 P21

24326 SPRAGUE, G. F., and BRIMHALL, B. Quantitative inheritance of oil in the corn kernel. *Agron. J.* 41: 30-33. Ref. Jan. 1949. 4 Am34P

24327 TOXOPEUS, H. J. On the flower biology, the spontaneous hybridization and the breeding of Java kapok (*Ceiba pentandra* var. *indica*). (In Dutch.) *Landbouw* 20: 365-390. Sept./Oct. 1948. 22.5 L23  
English summary.

24328 VALLE, C. G. DEL. Informe de la Division de Fitogenética de los años de 1944, 1945 y 1946. *Agrotecnia* 2: 784-822. Dec. 1948. 8 Ag825  
Cuba.

24329 WHALEY, W. G., HEIMSCH, C., and RABIDEAU, G. S. Growth patterns of inbred and hybrid maize. (Abs.) *Amer. J. Bot.* 35: 798-799. Dec. 1948. 450 Am36



## PHYSIOLOGY

- 24330 ALLEN, M. P. Trees; more efficient than any factory, more mysterious than any detective story—yet as familiar as the sun itself. *Home Gard.* 13(2): 10-15. Feb. 1949. 80 H756
- 24331 AMERICAN POTASH INSTITUTE, INC. Boron as a plant nutrient: a bibliography of literature published and reviewed, January 1941 through December 1941, by C. M. Schmidt, D. H. Jameson, H. N. Hudgins, and V. G. Specht. Washington, 1947. 78 p. 241 Am33  
Boron Supplement IV.
- 24332 ANDERSON, W. L. The trace elements. 1-2. *Hoard's Dairyman* 94: 9, 39, 58. Jan. 10-25, 1949. 44.8 H65  
In plant and animal nutrition.
- 24333 ARISZ, W. H. Transport in de plant als basis voor de eenheid van het organisme [Translocation in the plant as the basis of the unity of the organism]. Groningen, Wolters, 1948. 16 p. 463.32 AR4
- 24334 ASPREY, G. F. An apparatus for following the course of gaseous exchange by living tissue. *Roy. Soc. Edinb. Proc. Sect. B, Biol.* 63: 163-176. Ref. 1948. 501 Ed4P  
In plants.
- 24335 BALDACCI, E. Rice plant changes caused by soil and parasites. (In Italian.) *Humus* 4(10): 28. Oct. 1948. 16 H88
- 24336 BANGA, O. Differences in bolting tendency of different varieties and strains of red table beets. (In Dutch.) *Netherlands. Dir. van de Tuinbouw. Meded.* 11: 724-728. Nov. 1948. 86 N384  
English summary.
- 24337 BARBIER, G., TROCME, S., and CHABANNES, J. Carence de manganèse provoquée par l'irrigation à l'eau d'égout. *Acad. d'Agr. de France. Compt. Rend.* 34: 910-912. Nov. 10/17, 1948. 14 P215Bc
- 24338 BARTON, L. V., and SOLT, M. L. Growth inhibitors in seeds. *Boyce Thompson Inst. Contrib.* 15: 259-278. Ref. Oct./Dec. 1948. 451 B69
- 24339 BENNET-CLARK, T. A. Non-osmotic water movement in plant cells. *Faraday Soc. Discuss.* 1948(3): 134-139. 382 F22D
- 24340 BENNETT, N., and LOOMIS, W. E. Tetrazolium chloride as a test reagent for freezing injury of seed corn. *Plant Physiol.* 24: 162-174. Ref. Jan. 1949. 450 P692
- 24341 BIALE, J. B., and KREBS, H. A. Oxidative processes in minced flower buds of the cauliflower, *Brassica oleracea* L. (Abs.) *Amer. J. Bot.* 35: 806. Dec. 1948. 450 Am36
- 24342 BIEBL, R. Permeabilitätsversuche an der kartoffelpflanze. *Österr. Bot. Z.* 95: 129-146. Ref. 1948. 450 Os7
- 24343 BOER, S. DE. The influence of cold and hot water, growth-substances and ethylene chlorohydrin on grafting of *Rhododendron*. (In Dutch.) *Nederland Den-drol. Ver. Jaarb.* 16: 110-115. 1947. 99.9 N28  
English summary.
- 24344 BOISCHOT, P., and JACOBELLI, G. Action sur la germination des arsénates employés comme anti-parasitaires. *Acad. d'Agr. de France. Compt. Rend.* 34: 895-896. Oct. 27/Nov. 3, 1948. 14 P215 Bc
- 24345 BONNER, W. D., and THIMANN, K. V. Studies on the growth and inhibition of isolated plant parts. IV. The organic acids of *Avena* and *Pisum*. (Abs.) *Amer. J. Bot.* 35: 806-807. Dec. 1948. 450 Am36
- 24346 BOSCH, E. Blütenmorphologische und zytologische untersuchungen an palmen. *Schweiz. Bot. Gesell. Ber.* 57: 37-100. Ref. 1947. 451 Sch9  
French summary.
- 24347 BOWMAN, F. T., and others. Hormone sprays for apple crop regulation; some preliminary experiments. *Agr. Gaz. N. S. Wales* 59: 523-526. Oct. 1948. 23 N472  
E. C. Whittaker, P. B. Mackenzie, and R. B. Thomas, joint authors.
- 24348 BRAUDE, E. A. Photosynthesis. *Roy. Col. Sci., London. Sci. J.* 18: 61-74. Ref. 1948. 501 L8484
- 24349 BRAUN, A. J. Some effects of Fermate and bordeaux sprays on Concord grapes. (Abs.) *Phytopathology* 39: 3. Jan. 1949. 464.8 P56
- 24350 BRAY, R. H. Nitrates tests for soils and plant tissues. *Greenkeepers' Rptr.* 16(6): 5-7. Nov./Dec. 1948. 60.18 G83

- 24351 BURKHOLDER, P. R., CASTLE, H., and SMITH, P. H. Studies on the nutrition of the moss *Catharina undulata* (L.) Web. f. and Mohr. (Abs.) *Amer. J. Bot.* 35: 807. Dec. 1948. 450 Am36
- 24352 CALVERT, J. The inhibition of suckering in tobacco by chemicals. *Austral. Inst. Agr. Sci. J.* 14: 146-147. Sept. 1948. 23 Au74
- 24353 CALVIN, M., and BENSON, A. A. The path of carbon in photosynthesis. IV. The identity and sequence of the intermediates in sucrose synthesis. *Science* 109: 140-142. Feb. 11, 1949. 470 Sci2
- 24354 CAPLIN, S. M., and STEWARD, F. C. The effect of coconut milk on the growth of carrot cultures. (Abs.) *Amer. J. Bot.* 35: 807. Dec. 1948. 450 Am36
- 24355 CAPLIN, S. M., and STEWARD, F. C. A new technique for the controlled growth of plant tissue cultures. (Abs.) *Amer. J. Bot.* 35: 807-808. Dec. 1948. 450 Am36
- 24356 CAVANILLAS, L. Estudios sobre transpiración vegetal: experiencias con trigo cultivado en lisímetros. *Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 7: 187-200. Jan./Apr. 1948. 506 Sp12
- 24357 CHAKRAVARTI, S. C. A simple method of isolating mustard embryos and their cultivation. *Cur. Sci.* 17: 299. Oct. 1948. 475 Sci23
- 24358 CHAUDHURI, T. C. A note on starch in *Mirabilis jalapa* soluble in cold water. *Sci. and Cult.* 12: 449-450. Mar. 1947. 475 Sci24
- 24359 CHESTERS, C. G. C., and STREET, H. E. The effect of some organic supplements on the growth of lettuce in sand culture. *Ann. Appl. Biol.* 35: 443-459. Ref. Sept. 1948. 442.8 An72
- 24360 CHRISTIANSEN, G. S., and others. The action of growth inhibitors on carbohydrate metabolism in the pea. *Plant Physiol.* 24: 178-181. Jan. 1949. 450 P692  
L. J. Kunz, W. D. Bonner, Jr., and K. V. Thimann, joint authors.
- 24361 CHURY, J., and SLOUKA, V. Effects of bromine on mitosis in root-tips of *Allium cepa*. *Nature [London]* 163: 27-28. Jan. 1, 1949. 472 N21
- 24362 CLARK, B. E. Nature and causes of abnormalities in onion seed germination. *N. Y. (Cornell) Agr. Expt. Sta. Mem.* 282, 27 p. Ref. Dec. 1948. 100 N48C
- 24363 COLEMAN, E. Movement in plants. *Victorian Nat.* 65: 114-117. Sept. 1948. 410 V66
- 24364 CONGER, A. D. The cytogenetic effect of sonic energy applied simultaneously with X-rays. *Natl. Acad. Sci. Proc.* 34: 470-474. Ref. Oct. 1948. 500 N21P  
Experiments with *Tradescantia paludosa*.
- 24365 COOK, R. L., and MILLAR, C. E. Plant nutrient deficiencies diagnosed by plant symptoms, tissue tests, soil tests. *Mich. Agr. Expt. Sta. Spec. B.* 353, 80 p. Jan. 1949. 100 M58S
- 24366 CORRIE, F. E. Some elements of plants and animals. *London, Fert. J.* 1948. 120 p. 395 C812  
Minerals in plant and animal nutrition.
- 24367 CRAFTS, A. S. Movement of materials in phloem as influenced by the porous nature of the tissues. *Faraday Soc. Discuss.* 1948(3): 153-159. 382 F22D
- 24368 CRAFTS, A. S., and EMANUELLI, A. Some experiments with herbicides in pineapples. *Bot. Gaz.* 110: 312-319. Ref. Dec. 1948. 450 B652  
Spray injury from herbicides.
- 24369 CRANE, J. C., and BLONDEAU, R. The use of growth-regulating chemicals to induce parthenocarpic fruit in the *Calimyrna* fig. *Plant Physiol.* 24: 44-54. Ref. Jan. 1949. 450 P692
- 24370 CURTIS, O. F., JR. Is 2,4-D safe for use on strawberry beds? *Farm Res. [N. Y. State Sta.]* 15: 16. Jan. 1949. 100 N48A
- 24371 CYPERT, E. The effect of shading upon seed production of the trailing lespedeza. *J. Wildlife Mangt.* 13(1): 142. Jan. 1949. 410 J827
- 24372 DAVIDSON, R. S. The phosphorus metabolism of three species of *Helminthosporium* as determined by use of radiophosphorus. (Abs.) *Phytopathology* 39: 6. Jan. 1949. 464.8 P56
- 24373 DAY, E. W. Bud formation in *Metasequoia*. *Gard. Chron.* 125: 44. Feb. 5, 1949. 80 G162
- 24374 DEYSSON, G., and LAYA, S. Action mitoclasique de l'aminothiazol (base). *Paris. Acad. des Sci. Compt. Rend.* 227: 1112-1113. Nov. 22, 1948. 505 P21  
In onion.



- 24375 DICKINSON, S. Studies in the physiology of obligate parasitism. I. The stimuli determining the direction of growth of the germ-tubes of rust and mildew spores. *Ann. Bot. [London] (n. s.)* 13: 89-104. Jan. 1949. 450 An7
- 24376 DONA DALLE ROSE, A. Treatment of wheat seeds with growth substances. (In Italian.) *Ital. Agr.* 85: 736-739. Dec. 1948. 16 It1
- 24377 DCXEY, D., and RHODES, A. The effect of the plant growth-regulator 4-chloro-2-methylphenoxyacetic acid on mitosis in the onion (*Allium cepa*). *Ann. Bot. [London] (n. s.)* 13: 105-111. Ref. Jan. 1949. 450 An7
- 24378 EIGSTI, O. J. Comparisons of c-mitosis with podophyllin and colchicine. (Abs.) *Amer. J. Bot.* 35: 791. Dec. 1948. 450 Am36
- 24379 ELZE, D. L. A growth study of the Jaffa orange. Jewish Agency for Palestine. *Agr. Res. Sta. B.* 45, 42 p. Ref. 1947. 107 Z6
- 24380 ENNIS, W. B., JR., FISK, E. L., and GRABER, L. F. Nuclear and cellular responses of certain plants to O-isopropyl N-phenyl carbamate. (Abs.) *Amer. J. Bot.* 35: 808-809. Dec. 1948. 450 Am36
- 24381 ESPARZA TABARES, R. Estimulantes radio-activos para la agricultura. *Agrotecnia* 2: 777-783. Dec. 1948. 8 Ag825
- 24382 EYSTER, H. C. An inhibitor for starch synthase and an accelerator for diastase. (Abs.) *Amer. J. Bot.* 35: 809. Dec. 1948. 450 Am36
- 24383 FARADAY SOCIETY, LONDON. Interaction of water and porous materials. *Faraday Soc. Discuss.* 3, 294 p. 1948. 382 F22D  
Includes plants.
- 24384 FAUCONNET, L. Variations saisonnières chez *Valeriana officinalis* L. *Schweiz. Bot. Gesell. Ber.* 57: 122-131. Ref. 1947. 451 Sch9  
German summary.
- 24385 FENNELL, D. I., RAPER, K. B., and FLICKINGER, M. H. Further investigations on the preservation of mold cultures. (Abs.) *Amer. J. Bot.* 35: 800. Dec. 1948. 450 Am36
- 24386 FERRI, M. G., and LEX, A. Stomatal behavior as influenced by treatment with  $\alpha$ -naphthoxyacetic acid. *Boyce Thompson Inst. Contrib.* 15: 283-290. Ref. Oct./Dec. 1948. 451 B69
- 24387 FILLMORE, R. H. Upside down grafting. *Horticulture* 27: 15. Jan. 1949. 80 H787
- 24388 FLORY, W. S., JR. Chromosome studies, and their bearing on phylogeny, in the *Amaryllidaceae*. I. *Habranthus*. (Abs.) *Amer. J. Bot.* 35: 791-792. Dec. 1948. 450 Am36
- 24389 FOGG, G. E. Adhesion of water to the external surfaces of leaves. *Faraday Soc. Discuss.* 1948 (3): 162-166. 382 F22D
- 24390 FOGG, G. E. The penetration of 3:5-dinitro-o-cresol into leaves. *Ann. Appl. Biol.* 35: 315-330. Ref. Sept. 1948. 442.8 An72
- 24391 FRÖMMING, E. Werden milchpflanzen gefressen? *Natur u. Tech.* 2: 223-224. Sept. 1, 1948. 474 N215  
Euphorbiaceae.
- 24392 GALL, H. J. F. Some effects of 2,4-dichlorophenoxyacetic acid on starch digestion and reducing activity in bean tissue cultures. *Bot. Gaz.* 110: 319-323. Ref. Dec. 1948. 450 B652
- 24393 GALLETTI, A. C. Plant therapy, phytohormones in Italy. (In Italian.) *Terra [Firenze]* 59(45): 3. Nov. 7, 1948. 16 T274
- 24394 GALSTON, A. W. Adenine as a growth factor for etiolated peas and its relation to the thermal inactivation of growth. (Abs.) *Amer. J. Bot.* 35: 809. Dec. 1948. 450 Am36
- 24395 GALSTON, A. W. The effect of light on plant response to auxin. (Abs.) *Amer. J. Bot.* 35: 809. Dec. 1948. 450 Am36
- 24396 GANDARILLAS, H., and NYLUND, R. E. Further studies on the influence of sprout-inhibiting and sprout-inducing treatments on the growth and yields of potatoes. *Amer. Potato J.* 26: 7-16. Jan. 1949. 75.8 P842
- 24397 GAUMANN, E., and NEF, U. Der einfluss der temperatur auf die enzymatische leistungsfähigkeit zweier pflanzenpathogener pilze. *Schweiz. Bot. Gesell. Ber.* 57: 258-271. 1947. 451 Sch9  
*Botrytis cinerea* and *Aspergillus niger*.
- 24398 GAUMANN, E., and JAAG, O. Die physiologischen grundlagen des parasitogenen welkens. I-III. *Schweiz. Bot. Gesell. Ber.* 57: 5-36, 132-148, 227-241. Ref. 1947. 451 Sch9  
French summary.
- 24399 GELDREICH, E. E., JR. The effects of a calcium-deficient medium on sporelings of *Leucolejeunea clypeata*. *Bryologist* 51: 229-235. Dec. 1948. 450 B84
- 24400 GELDREICH, E. E., JR. Some effects of calcium deficiency on the vegetative plant of *Leucolejeunea clypeata*. *Bryologist* 51: 218-229. Ref. Dec. 1948. 450 B84
- 24401 GOIDANICH, G. Vitamins and plants. (In Italian.) *Italia Agr.* 85: 488-492. Sept. 1948. 16 It1  
Growth substances.
- 24402 GOODALL, D. W. Studies in the diagnosis of mineral deficiency. IV. The mineral content of barley plants in relation to potassium deficiency. *Ann. Appl. Biol.* 35: 605-623. Dec. 1948. 442.8 An72
- 24403 GOULD, C. J., MCCLELLAN, W. D., and MILLER, V. L. Phytotoxicity of certain fungicide treatments to *Narcissus* bulbs. (Abs.) *Phytopathology* 39: 8. Jan. 1949. 464.8 P56
- 24404 GOUNY, P., and PRÉVOT, P. Le calcium dans la nutrition minérale de l'arachide. *Acad. d'Agr. de France. Compt. Rend.* 34: 945-946. Nov. 24/Dec. 1, 1948. 14 P215Bc
- 24405 GRAINGER, J. Growth cycle metabolism of plants in relation to flowering. *Ann. Appl. Biol.* 35: 624-637. Ref. Dec. 1948. 442.8 An72
- 24406 GRAYSON, J. M. Germination of fumigated peanuts. *J. Econ. Ent.* 41: 816-817. Oct. 1948. 410 J822  
Seeds treated with chloropicrin.
- 24407 GUNCKEL, J. E., THIMANN, K. V., and WETMORE, R. H. Studies of development in long shoots and short shoots of *Ginkgo biloba* L. III-IV. (Abs.) *Amer. J. Bot.* 35: 792-793. Dec. 1948. 450 Am36
- 24408 HABEED, H., and CALDWELL, J. J. *Zoochlorella conductrix* occurring in New Brunswick symbiotically with *Ophrydium*. *Rhodora* 51: 4-5. Jan. 1949. 450 R34
- 24409 HAMMAR, H. E., and HUNTER, J. H. Influence of fertilizer treatment on the chemical composition of Moore pecan leaves during nut development. *Plant Physiol.* 24: 16-30. Ref. Jan. 1949. 450 P692
- 24410 HAMMOND, L. C., and KIRKHAM, D. Growth curves of soybeans and corn. *Agron. J.* 41: 23-29. Ref. Jan. 1949. 4 Am34P
- 24411 HANSEL, H. Über photoperiodismus (tageslängenwirkung). *Wetter u. Leben* 1: 161-168. Sept. 1948. 340.8 W53
- 24412 HARDESTY, W. G., SCOFIELD, H. T., and ANDERSON, D. B. The inhibition of lateral buds in tobacco with growth regulators. (Abs.) *Elisha Mitchell Sci. Soc. J.* 64: 165. Dec. 1948. 500 EL4
- 24413 HARRIS, H. C. The effect on the growth of peanuts of nutrient deficiencies in the root and the pegging zone. *Plant Physiol.* 24: 150-161. Ref. Jan. 1949. 450 P692
- 24414 HASKELL, G., and SINGLETON, W. R. Use of controlled low temperature in evaluating the cold hardness of inbred and hybrid maize. *Agron. J.* 41: 34-40. Ref. Jan. 1949. 4 Am34P
- 24415 HASKINS, R. H. Some factors affecting pigmentation, growth, and metabolism of strains of the *Rhizophyctis*-*Karlingia* group. (Abs.) *Amer. J. Bot.* 35: 801. Dec. 1948. 450 Am36
- 24416 HATCHER, E. S. J. Plant hormones. *Chem. & Druggist* 151: 115-117. Jan. 22, 1949. 396.8 C42
- 24417 HAVAS, L. J., and FELFÖLDY, L. J. M. Fasciations and kindred teratisms induced in plants by polyploidogenic agents. *Arch. Biol. Hungar (Ser. 2)* 17: 131-140. Ref. 1947. 442.9 M27
- 24418 HAVINGA, E., and VELDSTRA, H. Researches on plant growth regulators. XIV. *Rec. des Trav. Chim. des Pays-Bas* 67: 855-863. Nov. 1948. 385 R24
- 24419 HENDERSON, J. H. M. A point regarding 2,4-D penetration. *Science* 108: 483. Oct. 29, 1948. 470 Sci2
- 24420 HENRY, P. Les facteurs de la pollinisation chez le palmier à huile. *Oléagineux* 3: 587-589. Dec. 1948. 77.8 OL2



- 24421 HODGSON, R., PETERSON, W. H., and RIKER, A. J. The toxicity of polysaccharides and other large molecules to tomato cuttings. *Phytopathology* 39: 47-62. Ref. Jan. 1949. 464.8 P56
- 24422 HOLDEN, M., and TRACEY, M. V. The effect of fertilizers on the levels of nitrogen, phosphorus, protease, and pectase in healthy tobacco leaves. *Biochem. J.* 43: 147-151. 1948. 382 B52
- 24423 HOLT, A. S., NEWTON, A. C., and ARNOLD, W. A. Action of ultraviolet radiation on green algae. (Abs.) *Amer. J. Bot.* 35: 810. Dec. 1948. 450 Am36
- 24424 HONERT, T. H. VAN DEN. Water transport in plants as a caternary process. *Faraday Soc. Discuss.* 1948(3): 146-153. 382 F22D
- 24425 HULME, A. C. Studies in the nitrogen metabolism of the apple fruit. *Biochem. J.* 43: 343-349. 1948. 382 B52
- 24426 HUREL-PY, G. Note préliminaire sur l'action de l'acide naphtylacétique sur la germination et la croissance des tiges feuillées de *Funaria hygrometrica*. *Paris. Acad. des Sci. Compt. Rend.* 227: 1256-1258. Dec. 8, 1948. 505 P21
- 24427 JACKSON, L. W. R. "Needle curl" of short-leaf pine seedlings. *Phytopathology* 38: 1028-1029. Dec. 1948. 464.8 P56
- 24428 JAEGER, P. Sur la germination de la graine de l'*Androcymbium gramineum* Macbride en présence de colchicine. *Paris. Acad. des Sci. Compt. Rend.* 227: 730-731. Oct. 11, 1948. 505 P21
- 24429 JANSSON, S. L. Use of isotopic tracers in plant physiology, soil science, and fertilizing practice. A literature review. (In Swedish.) *K. Lantbruksakad. Tidskr.* 87: 370-392. 1948. 104 Sw3  
English summary.
- 24430 JONES, K. L. The pistillate condition in *Ambrosia* as an after-effect of short photoperiod. (Abs.) *Amer. J. Bot.* 35: 794. Dec. 1948. 450 Am36
- 24431 JONES, W. E. Experiment shows effect of 2,4-D on fruit sizes. *Citrus Leaves* 29: 10-11. Jan. 1949. 80 C492
- 24432 JUILARD, N. Influence du porte-greffe et du milieu sur la composition chimique des oranges Valencia et des grapefruits Marsh Seedless. IV-VI. *Fruits d'Outre Mer* 3: 341-347. Oct. 1948. 80 F9492
- 24433 KAMEN, M. D. Tracers. *Sci. Amer.* 180(2): 30-40. Feb. 1949. 470 Sci25  
Includes plants.
- 24434 KAUFMANN, B. P., GAY, H., and MCDONALD, M. R. Enzymatic degradation of plant chromosomes. (Abs.) *Amer. J. Bot.* 35: 794-795. Dec. 1948. 450 Am36
- 24435 KAVANAGH, F., and GOODWIN, R. H. The use of pH-fluorescence curves to identify fluorescent organic compounds. (Abs.) *Amer. J. Bot.* 35: 810. Dec. 1948. 450 Am36
- 24436 KELLY, S. The influence of temperature on the susceptibility of plants to 2,4-D. (Abs.) *Amer. J. Bot.* 35: 810. Dec. 1948. 450 Am36
- 24437 KING, G. S., and LAMBOU, M. G. Formagenic responses in cotton seedlings influenced by chemical treatment of seed prior to storage. (Abs.) *Amer. J. Bot.* 35: 810. Dec. 1948. 450 Am36
- 24438 KLEIN, F. Activated substances in agriculture. (In Italian.) *Bologna Agr.* 1(38): 2. Oct. 9, 1948. 16 B634  
Growth substances for plants.
- 24439 KODANI, M. Sodium ribose nucleate and mitosis. *J. Hered.* 39: 327-335. Ref. Nov. 1948. 442.8 Am8  
In roots.
- 24440 KOSER, S. A. Growth factors for microorganisms. *Ann. Rev. Microbiol.* 2: 121-142. Ref. 1948. 448.3 An72
- 24441 KOSTOFF, D. Cytogenetic changes and atypical growth induced by hexachlorocyclohexane ( $C_6H_6Cl_6$ ). *Cur. Sci.* 17: 294-295. Oct. 1948. 475 Sci23  
In plants.
- 24442 KOTVAL, J. P. The induction of structural changes in chromosomes by ionizing radiations. Cambridge U. Abs. Diss. 1944/1945: 14-15. 1948. 241.8 C14  
Effect of X-rays,  $\gamma$ -rays and  $\alpha$ -rays on plants.
- 24443 KRIJTHE, N. Influence of temperature and light on the early potato "Eersteling" under storage conditions. (In Dutch.) *Netherlands. Dir. van den Landb. Verslag van Landbouwk. Onderzoek.* 54(5), 40 p. 1948. 105.2 V61V  
English summary.
- 24444 KRUYT, W. The influence of growth-substances, vitamins, traumatic acid, ethylene chlorohydrin and hot water on grafting of some ornamental plants. (In Dutch.) *Nederland. Dendrol. Ver. Jaarb.* 16: 83-109. Ref. 1947. 99.9 N28  
English summary.
- 24445 LAFLEUR, W. Studies on the effects of fluorine gas on *Gladiolus* and tomato. *Ohio Florists' Assoc. Monthly B.* 232: 6-7. Jan. 1949. 81 Oh36
- 24446 LANDTSHEER, H. DE. La radiesthésie. *Rev. Agr. de l'Afrique du Nord* 46: 634-637. (To be cont.) Dec. 17, 1948. 80 R326  
Also in *Prog. Agr. et Vitic.* 1949: 7-13. Jan. 2/9, 1949. 14 P94  
Chiefly plants.
- 24447 LAPINE, L. J., and MILBERG, E. A study of the effect of moisture on the longevity of imported *Chewings fescue* seed under laboratory and warehouse conditions. *Assoc. Off. Seed Anal. Proc.* 38: 62-65. 1948. 61.9 As7
- 24448 LEMMON, R. S. How to be a soil detective. *Home Gard.* 13: 23-24. Jan. 1949. 80 H756  
Indicator plants.
- 24449 LEPESCHKIN, W. W. Some aspects of the state of chlorophyll in chloroplasts. *Plant Physiol.* 24: 175-177. Ref. Jan. 1949. 450 P692
- 24450 LEVINE, M. Cytological effects of X-rays on colchicized root-tips of *Allium cepa*. (Abs.) *Amer. J. Bot.* 35: 795-796. Dec. 1948. 450 Am36
- 24451 LEVINE, M. The growth of normal plant tissue in vitro as affected by chemical carcinogens and plant growth substances. (Abs.) *Amer. J. Bot.* 35: 810-811. Dec. 1948. 450 Am36
- 24452 LEWIS, F. J. Water movement in leaves. *Faraday Soc. Discuss.* 1948(3): 159-162. 382 F22D
- 24453 LILLY, V. G., and BARNETT, H. L. The effect of pyriithiamin upon sporulation of three thiamin-deficient fungi. (Abs.) *Amer. J. Bot.* 35: 801. Dec. 1948. 450 Am36
- 24454 LUCKWILL, L. C. Seedless fruits. *Fruit Ann.* (1947/48) 2: 95-97. 1947. 225 F943
- 24455 LUNDEGARDH, H. On the mechanism of active movement of water and solutes through plant roots. *Faraday Soc. Discuss.* 1948(3): 139-146. 382 F22D
- 24456 LUTZ, A. Étude sur un bacille du genre *Mycobacterium*. I. La 2-méthyl-4-amino-5-amino-méthylpyrimidine facteur de croissance pour le bacille. *Soc. de Chim. Biol. B.* 30: 330-336. May/June 1948. 383 Sol
- 24457 MCGEORGE, W. T. Nutrient interrelations in lime-induced chlorosis as revealed by seedling tests and field experiments. *Ariz. Agr. Expt. Sta. Tech. B.* 116, p. 297-338. Ref. Nov. 1948. 100 Ar4
- 24458 MCMURTREY, J. E. New method detects specific elements deficient in soils. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 105, 2 p. Oct. 1948. 1.98 R31  
Deficiency effects on the tobacco plant.
- 24459 MARRE, E. Hormone regulation of starch metabolism in plants. I-II. (In Italian.) *Soc. Ital. di Biol. Sper. B.* 24: 599-605. May 1948. 442.8 So12  
Experiments chiefly with *Calonictyon muricatum*.
- 24460 MATHUR, R. S. Factors influencing the sporulation of *Colletotrichum lindemuthianum* in culture. (Abs.) *Phytopathology* 39: 14-15. Jan. 1949. 464.8 P56
- 24461 MAUCHA, R. Die photosynthese des phytoplanktons vom gesichtspunkte der quantenlehre. *Hydrobiologia* 1: 45-62. Ref. Aug. 15, 1948. 410 H992
- 24462 MAUME, L., and DULAC, J. Nouvelles observations sur la nutrition de la vigne contrôlée par l'analyse chimique de la feuille. *Acad. d'Agr. de France. Compt. Rend.* 34: 861-864. Oct. 13/20, 1948. 14 P21Bc
- 24463 MELLISOP, K. H. The green earth; magic of chlorophyll. *New Zeal. Gard.* 5: 345-346. Jan. 1, 1949. 80 N4822
- 24464 MEYER, J. R., and PELLOUX, A. Stimulating action of two plant growth hormones on the germination of seeds and the development of orchid seedlings in a sterile medium. (In Portuguese.) *Biológico* 14: 151-161. Ref. July 1948. 442.8 B529
- 24465 MEYER, S. L. Physiological studies on mosses. VII. Observations on the influence of light on spore germination and protonema development in *Physcomitrium turbinatum* and *Funaria hygrometrica*. *Bryologist* 51: 213-217. Ref. Dec. 1948. 450 B84



- 24466 MIEGE, E. La biologie de l'olivier. Inform. Maroc. 404: 1-2. Oct. 9, 1948. 281.8 In3
- 24467 MILLER, E. C., and others. The effect of defoliation on the functions of red winter wheat. Agr. Expt. Sta. Tech. B. 62, 95 p. Ref. Feb. 1948. 100 K13S
- G. A. Gries, W. A. Lunsford, and J. C. Frazier, joint authors.
- 24468 MILLIMAN, L. H. Nitrogen starvation one cause of walnut shrivel. Better Fruit 43(7): 6, 15. Jan. 1949. 80 B46
- 24469 MOYSE, A. Sur la nutrition et le métabolisme azotés des feuilles détachées. Paris. Acad. des Sci. Compt. Rend. 228: 118-120. Jan. 3, 1949. 505 P21
- 24470 MUNN, M. T. The 25-year hard seed soaking experiment. Assoc. Off. Seed Anal. Proc. 38: 66-68. 1948. 61.9 As7
- 24471 MUZIK, T. J. Effect of a hormone spray in reducing fruit drop in Hevea. (Abs.) Amer. J. Bot. 35: 811. Dec. 1948. 450 Am36
- 24472 MYERS, A. Effect of heat on lupin seed germination. Agr. Gaz. N. S. Wales 59: 580. Nov. 1, 1948. 23 N472
- 24473 MYERS, J., and JOHNSTON, J. A. Carbon and nitrogen balance of *Chlorella* during growth. Plant Physiol. 24: 111-119. Ref. Jan. 1949. 450 P692
- 24474 NANCE, J. F. Inhibition of salt accumulation in excised wheat roots by 2,4-dichlorophenoxyacetic acid. Science 109: 174-176. Ref. Feb. 18, 1949. 470 Sci2
- 24475 NEWTON, W., and LINES, C. J. The rooting of cypress and rose cuttings as influenced by Arasan, Fermate, and Spergon, and each fungicide in combination with naphthalene acetic acid. Sci. Agr. 28: 574-576. Dec. 1948. 7 Sci2
- 24476 NIELSEN, H. Zinc deficiency of apple trees. (In Danish.) Haven 49: 22. Feb. 1949. 80 H29
- 24477 NITSCH, J. Influence des akènes sur la croissance du réceptacle du fraisier. Paris. Acad. des Sci. Compt. Rend. 228: 120-122. Jan. 3, 1949. 505 P21
- 24478 OWEN, E. C. Nutrition and symbiosis. Discovery 9: 374-379. Dec. 1948. 472 D63
- In plants.
- 24479 PAAUW, F. VAN DER. Absorption of phosphate and nitrogen, assimilation and structural distribution in potatoes grown under varied phosphate conditions. (In Dutch.) Netherlands. Dir. van den Landb. Verslag van Landbouwk. Onderzoek. 54(3), 45 p. 1948. 105.2 V61V
- English summary.
- 24480 PAGE, T. J. Atomic science reveals plant secrets. Flower Grower 36: 124-125, 153-155. Feb. 1949. 80 M72
- Radioactive substances as tracers.
- 24481 PALMITER, D. H. The effects of Fermate on the yield of McIntosh apples. (Abs.) Phytopathology 39: 18. Jan. 1949. 464.8 P56
- 24482 PANCHENKO, A. I. A. Protective properties of mineral fertilizers against drought in sunflower and castor-oil plant. (In Russian.) Vsesoizn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchet 1941-1944: 264-273. 1947. 77.9 K86N
- 24483 PARKER, M. W., and others. Spectral sensitivities for leaf and stem growth of etiolated pea seedlings and their similarity to action spectra for photoperiodism. (Abs.) Amer. J. Bot. 35: 811. Dec. 1948. 450 Am36
- S. B. Hendricks, H. A. Borthwick, and F. W. Went, joint authors.
- 24484 PERTIERRA, J. M. Nutrición vegetal, microclimatología y conservación del suelo. Agricultura [Madrid] 17: 404-408. (Concl.) Sept. 1948. 15 Ag84
- 24485 PETERSON, M. L., and LOOMIS, W. E. Effects of photoperiod and temperature on growth and flowering of Kentucky bluegrass. Plant Physiol. 24: 31-43. Ref. Jan. 1949. 450 P692
- 24486 PORTERES, R. Compétition ou entr'aide au sein de l'espèce et de la race. Le cas des germinations de Cinchona. Paris. Acad. des Sci. Compt. Rend. 227: 1114-1115. Nov. 22, 1948. 505 P21
- 24487 POST, K. Short days are necessary for crown buds in *Chrysanthemums*. N. Y. State Flower Growers. B. 38: 5. Oct. 1948. 80 N486
- 24488 PRAT, H. Gradients of sensibility to chemical and physical agents in plant tissues. (Abs.) Amer. J. Bot. 35: 796. Dec. 1948. 450 Am36
- 24489 PRAT, H. Histo-physiological gradients and plant organogenesis. Bot. Rev. 14: 603-643. Ref. Dec. 1948. 450 B6527
- 24490 PRAT, H. Observations on thermogenesis of seed germination and of bacterial cultures. (Abs.) Amer. J. Bot. 35: 811-812. Dec. 1948. 450 Am36
- 24491 PRESTON, R. D. Mechanism of movement of solutions in plants. Faraday Soc. Discuss. 1948(3): 130-133. 382 F22D
- 24492 PREVOT, P. Croissance et développement de l'arachide. Oléagineux 4: 1-11. Ref. Jan. 1949. 77.8 OL2
- 24493 PREVOT, P. Nutrition minérale de l'arachide au cours de sa croissance. Oléagineux 4: 69-78. Ref. Feb. 1949. 77.8 OL2
- 24494 PROKOF'EV, A. A. Lokalizatsiya, obrazovanie i sostoyaniye kauchuka v rasteniyakh [Localization, formation and condition of rubber in plants]. Moskva, Akademika Nauk SSSR, 1948. 302 p. 463.3 P94
- 24495 RAO, K. S., RAO, M. B., and RAO, B. S. Drought resistance of plants in relation to hysteresis in sorption. Cur. Sci. 17: 334. Nov. 1948. 475 Sci23
- 24496 RAPPAPORT, J. Embryo inhibitors in water extracts of ovular tumors of *Datura*. (Abs.) Amer. J. Bot. 35: 812. Dec. 1948. 450 Am36
- 24497 RAWITSCHER, F., and RAWITSCHER, E. Inadequacy of potometry for measuring plant transpiration. Nature [London] 163: 68-69. Jan. 8, 1949. 472 N21
- 24498 RAYMENT, T. Notes on the pollination of trigger-plants [Stylidium]. Victorian Nat. 65: 118-119. Sept. 1948. 410 V66
- 24499 REES, W. J. The salt relations of plant tissues. IV. Ann. Bot. [London] (n. s.) 13: 29-51. Ref. Jan. 1949. 450 An7
- 24500 REISCHER, H. S. The effect of temperature upon the papillate character in *Achyla colorata* Pringsh. (Abs.) Amer. J. Bot. 35: 802-803. Dec. 1948. 450 Am36
- 24501 RICEMAN, D. S. Mineral deficiency in plants on the soils of the ninety-mile plain in South Australia. 2. Effect of zinc, copper, and phosphate on subterranean clover and lucerne grown on Laffer sand, near Keith. Austral. Council Sci. and Indus. Res. B. 234, 45 p. Ref. 1948. 514 Au72B
- 24502 RICEMAN, D. S., and POWRIE, J. K. Mineral deficiency in plants on the soils of the ninety mile plain in South Australia. III. Differences in the behaviour of the Dwalganup and later-flowering varieties of subterranean clover. Austral. Inst. Agr. Sci. J. 14: 138-140. Ref. Sept. 1948. 23 Au74
- 24503 RICHARDS, M. C. Ozone as a stimulant for fungus sporulation. (Abs.) Phytopathology 39: 20. Jan. 1949. 464.8 P56
- 24504 ROBERTSON, R. N., and WILKINS, M. J. Studies in the metabolism of plant cells. VII. The quantitative relation between salt accumulation and salt respiration. Austral. J. Sci. Res. Ser. B. Biol. Sci. 1: 17-37. Ref. Feb. 1948. 442.8 Au72
- 24505 ROHDE, G. Unterschiede im mineralstoffgehalt männlicher und weiblicher lebewesen. Ztschr. f. Pflanzenernähr., Düngung, Bodenk. 41: 132-147. Ref. 1948. 384 Z343A
- Includes plants.
- 24506 ROHRBAUGH, L. M., and RICE, E. L. Effect of application of sugar on the translocation of sodium 2,4-dichlorophenoxyacetate by bean plants in the dark. (Abs.) Amer. J. Bot. 35: 812. Dec. 1948. 450 Am36
- 24507 ROSELLA, E. Le jaunissement des céréales à la fin de l'hiver. Prog. Agr. et Vitic. 1949: 13-15. Jan. 2/9, 1949. 14 P94
- 24508 ROSSMAN, E. C., and STANFORTH, D. W. Effects of 2,4-D on inbred lines and a single cross of maize. Plant Physiol. 24: 60-74. Ref. Jan. 1949. 450 P692
- 24509 RUSSELL, R. S., and MARTIN, R. P. Use of radioactive phosphorus in plant nutritional studies. Nature [London] 163: 71-72. Ref. Jan. 8, 1949. 472 N21
- 24510 RUTTNER, F. Zur frage der karbonatassimilation der wasserpflanzen. II. Das verhalten von *Elodea canadensis* und *Fontinalis antipyretica* in lösungen von natrium- bzw. kaliumbikarbonat. Österr. Bot. Z. 95: 208-238. Ref. 1948. 450 Os7
- 24511 SADANA, J. C., and AHMAD, B. Changes in carotenoid pigments during the ripening of tomatoes under varying environmental conditions. J. Sci. & Indus. Res. 7B: 172-176. Ref. Nov. 1948. 475 J82



- 24512 SANDERS, M., and BURKHOLDER, P. R. Effect of amino acids on growth of *Datura* embryos in culture. (Abs.) *Amer. J. Bot.* 35: 797. Dec. 1948. 450 Am36
- 24513 SARTORIS, G. B., and BELCHER, B. A. The effect of flooding on flowering and survival of sugar cane. *Sugar* 44: 36-39. Jan. 1949. 65.8 F11
- 24514 SAYRE, C. B. Hardening plants with potash. *Better Crops Plant Food* 33: 13-14, 45-46. Jan. 1949. 6 B46
- 24515 SCHENK, G. Frucht und same. Hannover, Sponholtz, 1947. 121 p. 463.46 Sch2
- 24516 SCHULZ, U. K. T. Pflanzen führen tagebuch. *Natur u. Tech.* 2: 254-257. Sept. 15, 1948. 475 N215
- 24517 SERNA DÍAZ, C. DE LA. Los factores físicos en la consecución de las cosechas. *Surco [Madrid]* 7(78): 18-19. Aug. 1948. 15 Su7  
Plant physiology.
- 24518 SHELDON, V. L., BLUE, W. G., and ALBRECHT, W. A. Diversity of amino acids in leguminosae according to soil fertility. (Abs.) *Amer. J. Bot.* 35: 812. Dec. 1948. 450 Am36
- 24519 SKINNER, H. T. Growth habit of *Metasequoia*. *Gard. Chron.* 125: 44. Feb. 5, 1949. 80 G162
- 24520 SMALL, J., and JACKSON, T. Buffer index values in relation to soil-pH tolerances. *Plant Physiol.* 24: 75-83. Ref. Jan. 1949. 450 P692
- 24521 SMITH, O., ELLISON, H., and MCGOLDRICK, F. Growth of potato sprouts retarded by 2,4,5-trichlorophenoxyacetic acid. *Science* 109: 66-68. Jan. 21, 1949. 470 Sci2
- 24522 SMITH, P. F., RUETHER, W., and SPECHT, A. W. The influence of rootstock on the mineral composition of Valencia orange leaves. (Abs.) *Citrus Indus.* 30(2): 9, 11, 18. Feb. 1949. 80 C49
- 24523 SOLER MARTÍNEZ, A., and ORTUÑO MARTÍNEZ, A. Contribución al estudio del metabolismo de algunos hongos frente a substratos pectínicos. *Soc. Españ. de Fís. y Quím. An. Ser. B. Quím.* 44: 511-526. Apr. 1948. 385 So16
- 24524 SOLOMON, B. A growth inhibitor in autoclaved malt. (Abs.) *Amer. J. Bot.* 35: 812-813. Dec. 1948. 450 Am36
- 24525 SOSSOUNTZOV, I. Sur la désensibilisation vis-à-vis des milieux nutritifs des prothalles d'*Asplenium* sp. en culture aseptique. *Paris. Acad. des Sci. Compt. Rend.* 228: 117-118. Jan. 3, 1949. 505 P21
- 24526 SPOEHR, H. A., and MILNER, H. W. The chemical composition of *Chlorella*; effect of environmental conditions. *Plant Physiol.* 24: 120-149. Jan. 1949. 450 P692
- 24527 STAHL, C. Viability of Danish grown seed examined since July 1, 1948. (In Danish.) *Dansk Frøavl* 32(1): 7-8. Jan. 1, 1949. 61.8 D23
- 24528 SUBRAMANIAM, M. K., and RANGANATHAN, B. Induction of mutations in yeast by low temperatures. *Sci. and Cult.* 13: 102-105. Ref. Sept. 1947. 475 Sci24
- 24529 SWIFT, R. W., and others. Monthly yields and composition of herbage composed of Kentucky bluegrass, *Poa pratensis* L., and white clover, *Trifolium repens* L., as affected by fertilizer treatments. *Amer. Soc. Agron. J.* 40: 1051-1060. Ref. Dec. 1948. 4 Am34P  
W. H. James, L. F. Marcy, R. F. Elliott, V. F. Smith, and H. W. Higbee joint authors.
- 24530 TAMARCHENKO, M. E. Changes in the biological value of forage plants in relation to their stages of growth. (In Russian.) *Vsesoiuzn. Nauch. Issled. Inst. Zhivotn. Trudy* 15: 185-191. Ref. 1947. 49.9 R92
- 24531 TATUM, E. L., BARRATT, R. W., and CUTTER, V. M., JR. Substances inducing a colonial paramorphic effect in *Neurospora* and *Synecephalastrum*. (Abs.) *Amer. J. Bot.* 35: 803. Dec. 1948. 450 Am36
- 24532 TAYLOR, C. A. Some factors affecting germination of celery seed. *Plant Physiol.* 24: 93-102. Ref. Jan. 1949. 450 P692
- 24533 TIMNICK, M. B., LILLY, V. G., and BARNETT, H. L. The influence of light and other factors upon the sporulation of *Diaporthe phaseoli* from soy bean. (Abs.) *Amer. J. Bot.* 35: 804. Dec. 1948. 450 Am36
- 24534 U. S. EMBASSY. GT. BRIT. Report on research in plant physiology and horticulture in Great Britain, by N. W. Stuart. London, 1948. 15 p. 463.3 Un32
- 24535 VEZIN, C. La pratique de l'emploi agricole des hormones de synthèse. *Cahiers des Ingén. Agron.* 3(33): 29-32. Mar. 1948. 14 C112
- 24536 WAHL, I. Mutants of *Agaricus campestris* induced by uranium salts. (Abs.) *Phytopathology* 39: 24-25. Jan. 1949. 464.8 P56
- 24537 WALLACE, R. H., and BUSHNELL, R. J. Production of phenotypic and genotypic variations in seedlings by ultrasonic vibrations. (Abs.) *Amer. J. Bot.* 35: 813. Dec. 1948. 450 Am36
- 24538 WALLACE, T. Nutrition of plum trees. *Worcestershire Agr. Chron.* 17(1): 31, 33, 35, 37, 39, 41, 43, 45. Nov. 1948. 10 W892
- 24539 WALLACE, T. Nutrition problems of horticultural plants, with special reference to trace elements. *II. Roy. Hort. Soc. J.* 73: 423-438. Ref. Dec. 1948. 84 L84J
- 24540 WARMKE, H. E., and CRUZADO, H. J. The flowering and seed-setting of sweet potatoes in Puerto Rico. *Science* 109: 62-63. Jan. 21, 1949. 470 Sci2
- 24541 WEAVER, R. J. Some uses of activated carbon in contratoxification of plant growth-regulators. *Bot. Gaz.* 110: 300-312. Dec. 1948. 450 B652
- 24542 WEINTRAUB, R. L., and BROWN, J. W. Translocation of exogenous growth-regulators in the bean seedling. (Abs.) *Amer. J. Bot.* 35: 813. Dec. 1948. 450 Am36
- 24543 WENT, F. W. Phytohormones: structure and physiological activity. *II. Arch. Biochem.* 20(1): 131-136. Ref. Jan. 1949. 381 Ar2
- 24544 WILDMAN, S. G., and MUIR, R. M. Observations on the mechanism of auxin formation in plant tissues. *Plant Physiol.* 24: 84-92. Ref. Jan. 1949. 450 P692
- 24545 WILSON, C. C., and KRAMER, P. J. Relation between root respiration and absorption. *Plant Physiol.* 24: 55-59. Ref. Jan. 1949. 450 P692
- 24546 WILSON, R. D., and WARING, E. J. Some observations and experiments concerning the role of molybdenum in the nutrition of the flowering plant. *Austral. Inst. Agr. Sci. J.* 14: 141-145. Ref. Sept. 1948. 23 Au74
- 24547 WITHNER, C. L. Movement of P32 in maturing corn plants. (Abs.) *Amer. J. Bot.* 35: 814. Dec. 1948. 450 Am36
- 24548 WOESSNER, D. Untersuchungen über den einfluss des bodens auf die form der speisezwiebel (*Allium cepa* L.). *Naturf. Gesell. Schaffhausen. Mitt.* 22: 161-172. 1947/48. 508 Sch2
- 24549 WOLFENBARGER, D. O. Nutritional value of phosphatic insecticides. *J. Econ. Ent.* 41: 818-819. Oct. 1948. 421 J822  
Effects of insecticide (Vaportone) on plant growth.
- 24550 WOOD, J. G., and others. Studies on the nitrogen metabolism of plants. VII-VIII. *Austral. J. Sci. Res. Ser. B. Biol. Sci.* 1: 38-49, 163-175. Ref. Feb., May 1948. 442.8 Au72  
M. R. Hone, M. E. Mattner, and C. P. Symons, joint authors.
- VII, Toxicity of some oximes and oximino-acids to *Azotobacter* and their utilization; VIII, Utilization of  $\alpha$ -oximinocarboxylic acids by oat plants.

## BIOCHEMISTRY

- 24551 AGARWAL, P. N., and PETERSON, W. H. Utilization of non-sugar carbon of molasses by food yeasts. *Arch. Biochem.* 20(1): 59-74. Ref. Jan. 1949. 381 Ar2
- 24552 ARNON, D. I. Copper enzymes in isolated chloroplasts. Polyphenoloxidase in *Beta vulgaris*. *Plant Physiol.* 24: 1-15. Ref. Jan. 1949. 450 P692
- 24553 ASEÑO, C. F., and others. A chemical study of the molinillo plant (*Leonotis nepetaefolia*, L.), with special reference to its seed. *Puerto Rico J. Pub. Health & Trop. Med.* 24(1): 44-54. Ref. Sept. 1948. 448.8 P83  
Same in Spanish, p. 57-68.  
A. R. Freire de Guzmán, A. G. Mayoral de Asenjo, and J. González de López Candal, joint authors.
- 24554 BARGONI, N. Inhibition of the oxidation of ascorbic acid in the endocarp of the orange. (In Italian.) *Soc. Ital. di Biol. Sper. B.* 24: 525-526. Apr. 1948. 442.8 So12
- 24555 BELVAL, H., GRANDCHAMP-CHAUDIN, A. DE, and DU MÉRAC, M. L. Sur la constitution des fructosanes du genre *Allium*. *Paris. Acad. des Sci. Compt. Rend.* 227: 1403-1405. Dec. 20, 1948. 505 P21



- 24556 BERTRAND, G., and BERTRAND, D. Migration du rubidium dans l'organisme de quelques champignons basidiomycètes. Paris. Acad. des Sci. Compt. Rend 228: 22-25. Jan. 3, 1949. 505 P21
- 24557 BERTRAND, G., and BERTRAND, D. Sur la teneur relativement élevée en rubidium de certains champignons. Paris. Acad. des Sci. Compt. Rend. 227: 1128-1130. Nov. 29, 1948. 505 P21
- 24558 BIRCH, H. F., and DOUGHTY, L. R. The distribution and interrelationships of the alkaloids in the bark of *Cinchona ledgeriana*. Biochem. J. 43: 38-44. 1948. 382 B52
- 24559 BROWN, M. B., COOK, R. P., and STEWART, K. M. A method of separating the main chemical constituents of *Pisum sativum*. Biochem. J. 43: xx-xxi. 1948. 382 B52
- 24560 CARTER, P. W., and others. The algae. 4. The lipochromes of the male and female gametes of some species of the Fucaceae. Biochem. J. 43: 349-352. Ref. 1948. 382 B52
- L. C. Cross, I. M. Heilbron, and E. R. H. Jones, joint authors.
- 24561 CHAUDHRY, G. R., SHARMA, V. N., and SIDDIQUI, S. Constitution of the colouring matters from *Sonneratia acida* Linn. J. Sci. & Indus. Res. 7B: 202. Dec. 1948. 475 J82
- 24562 COMMONER, B. Determination of pigments in single plant cells by micro-spectrophotometry. (Abs.) Amer. J. Bot. 35: 808. Dec. 1948. 450 Am36
- 24563 CUTTER, V. M., JR. A survey of the carbohydrate systems in isolates of *Syncephalastrum racemosum* from different habitats. (Abs.) Amer. J. Bot. 35: 799. Dec. 1948. 450 Am36
- 24564 DIEMAIR, W., and KOCH, J. Beitrag zur kenntnis der hefephosphatide. Angew. Chem. Ausg. A. 60: 155-157. June 1948. 384 Z33
- 24565 FERREIRA, C. Conteúdo em substâncias amargas da losna *Artemisia absinthium*, Linné, crescida no Brasil, e das amostras da droga encontradas no comércio de São Paulo [Bitter substance content of the wormwood, *Artemisia absinthium* Linn., grown in Brazil and samples of the drug found in commerce in São Paulo]. São Paulo, "Revista dos Tribunaes," 1947. 39-56 p. 396 F41
- 24566 FESTER, G. A., SUAREZ, A. F., and GARGALLO, M. A. Los colorantes de la raíz de *Relbunium atherodes* y *R. hypocarpium*. Assoc. Quím. Argentina. An. 36: 143-149. Dec. 1948. 385 So1A
- 24567 GATTI, A. The principal alkaloids contained in plants. (In Italian.) Riv. Ital. Essenze, Profumi, Pianta Off., Olii Veg., Saponi 30: 475-479. Nov. 15, 1948. 308.8 R52
- 24568 HALSALL, T. G., and others. The amylose content of the starch present in the growing potato tuber. Biochem. J. 43: 70-72. 1948. 382 B52
- E. L. Hirst, J. K. N. Jones, and F. W. Sansome, joint authors.
- 24569 HICULAHAN, M. B., and MITCHELL, H. K. Evidence for an interrelation in the metabolism of lysine, arginine and pyrimidines in *Neurospora*. Natl. Acad. Sci. Proc. 34: 465-470. Oct. 1948. 500 N21P
- 24570 HUELIN, F. E., and STEPHENS, I. M. The copper-catalysed oxidation of ascorbic acid in fruit and vegetable suspensions. Austral. J. Sci. Res. Ser. B. Biol. Sci. 1: 50-57. Feb. 1948. 442.8 Au72
- 24571 HUELIN, F. E., and STEPHENS, I. M. The enzyme-catalysed oxidation of ascorbic acid in fruit and vegetable suspensions. Austral. J. Sci. Res. Ser. B. Biol. Sci. 1: 58-64. Ref. Feb. 1948. 442.8 Au72
- 24572 KARRER, P. Carotinoide. Basel, Birkhäuser, 1948. 388 p. (Lehrbücher und Monographien aus dem Gebiete der exakten Wissenschaften. 17. Chemische Reihe. 3) 387.1 K14
- Includes their occurrence in plants and animals.
- 24573 LOUW, P. G. J. Two new cardiac glycosides, rubellin and transvaalin, from South African species of *Urginea*. Nature [London] 163: 30-31. Jan. 1, 1949. 472 N21
- 24574 NASON, A. Existence of a tryptophan-niacin relationship in corn. Science 109: 170-171. Ref. Feb. 18, 1949. 470 Sci2
- 24575 NEIRINCKX, G. Teneur en gossypol des graines de coton du Congo Belge et de leurs sous-produits. B. Agr. du Congo Belge 39: 819-840. Dec. 1948. 24 K83
- 24576 NOGGLE, G. R. The ascorbic acid content of diploid and tetraploid rye. (Abs.) Amer. J. Bot. 35: 811. Dec. 1948. 450 Am36
- 24577 NOLAN, T. J., and others. The chemical constituents of lichens found in Ireland. *Buellia canescens*. Pt. 3. Roy. Dublin Soc. Sci. Proc. (n. s.) 24: 319-334. Sept. 1948. 501 D85
- J. Algar, E. P. McCann, W. A. Manahan and N. Nolan, joint authors.
- 24578 PERLMAN, D. On the production of C<sub>2</sub> compounds by *Polyporus anceps* from carbohydrates. (Abs.) Amer. J. Bot. 35: 802. Dec. 1948. 450 Am36
- 24579 PLOUVIER, V. Sur l'acide cyanhydrique de quelques Rosacées-Spirées. Paris. Acad. des Sci. Compt. Rend. 227: 1260-1262. Dec. 8, 1948. 505 P21
- 24580 PUJULA, J. Chlorophyll pigment in the seed of Japanese medlar, *Eriobotrya japonica*. (In Portuguese.) Brotéria 17: 182-185. Nov. 1948. 410 B79C
- 24581 ROTINI, O. T. Variations in the catalase activity of seeds during germination. (In Italian.) Chim. e l'Indus. 30: 234-236. Sept. 1948. 385 G43
- 24582 SANTOS RUIZ, A., VILLAR PALASI, V., and ARCHILLA GUZMAN, M. DE C. Estudios sobre bioquímica de protidos. I. Aminoácidos básicos de la semilla del "*Lathyrus sativus*." Soc. Españ. de Fís. y Quím. An. Ser. B. Quím. 44: 651-658. Ref. May 1948. 385 So16
- English summary.
- 24583 SANTOS RUIZ, A., and ROTLLANT DE FRANCH, M. Química del latex de la "*Euphorbia echinus*." Soc. Españ. de Fís. y Quím. An. Ser. B. Quím. 44: 631-650. Ref. May 1948. 385 So16
- English summary.
- 24584 STOCKER, O. Tiroler sanddorn (*Hippophae rhamnoides* L.) als vitamin C-höchstleistungspflanze. Züchter 19(1/3): 9-13. Ref. 1948. 442.8 Z8
- 24585 STUTZ, R. E., and BURRIS, R. H. The distribution of C<sup>14</sup> among the organic acids of higher plants fixing C<sup>14</sup>O<sub>2</sub>. (Abs.) Amer. J. Bot. 35: 813. Dec. 1948. 450 Am36
- 24586 SURE, B., and HOUSE, F. Protein utilization of various dried food yeasts. Arch. Biochem. 20(1): 55-58. Jan. 1949. 381 Ar2
- 24587 THOMAS, B., and THOMPSON, A. The ash-content of some grasses and herbs on the Palace Leas hay plots at Cockle Park. Empire J. Expt. Agr. 16: 221-230. Ref. Oct. 1948. 10 Em7
- 24588 TOTH, S. J., and others. Rapid quantitative determination of eight mineral elements in plant tissue by a systematic procedure involving use of a flame photometer. Soil Sci. 66: 459-466. Ref. Dec. 1948. 56.8 So3
- A. L. Prince, A. Wallace, and D. S. Mikkelsen, joint authors.
- 24589 UNGNADE, H. E., and HENDLEY, E. C. The bitter principle of *Helenium tenuifolium*. Amer. Chem. Soc. J. 70: 3921-3924. Nov. 1948. 381 Am33J
- 24590 VISWANATHAN, P. Titanium in soils. Sci. and Cult. 13: 121. Sept. 1947. 475 Sci24
- Determination in plants.
- 24591 WANNER, H., and LEUPOLD, U. Über die longitudinale verteilung der saccharaseaktivität in der wurzelspitze. Schweiz. Bot. Gesell. Ber. 57: 156-163. Ref. 1947. 451 Sch9
- German and English summaries.
- 24592 WASSERMANN, A. Cation adsorption by brown algae: the mode of occurrence of alginic acid. Ann. Bot. [London] (n. s.) 13: 79-88. Ref. Jan. 1949. 450 An7
- 24593 WAYGOOD, E. R. Adaptation of the method of Lowry and Lopez to the estimation of inorganic and organic phosphate in plant extracts. Canad. J. Res. Sect. C, Bot. Sci. 26: 461-478. Ref. Oct. 1948. 470 C16C
- 24594 WILDMAN, S. G., CAMPBELL, J., and BONNER, J. The proteins of green leaves. II. Auxin, adenine, pentose and phosphorus content of spinach Fraction I. (Abs.) Amer. J. Bot. 35: 813-814. Dec. 1948. 450 Am36
- 24595 YIN, H. C., and SUN, C. N. Localization of phosphorylase and of starch formation in seeds. Plant Physiol. 24: 103-110. Ref. Jan. 1949. 450 P692
- 24596 YOUNG, R. E., PRATT, H. K., and BIALE, J. B. Micromanometric estimation of ethylene in the emanations of ripening fruit. (Abs.) Amer. J. Bot. 35: 814. Dec. 1948. 450 Am36



## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

## General

- 24597 **BERGE, H.** Der fruchtwechsel als ertragssteigerndes prinzip. Stuttgart, Angerer, 1948. 47 p. 64 B452
- 24598 **BIFFEN, W.** Crop-rotation: the basis of good farming. Smallholder 80(2019): 20. Dec. 10, 1948. 10 Sml
- 24599 **BOND, J. R.** Arable silage crops. Farming [Norwich] 2: 364-365, 379. Dec. 1948. 10 F2236
- 24600 **BRYZGALOV, V. A., and SOBOLEV, S. L., eds.** Agrotehnika ovoshchnykh i polevykh kul'tur [Agricultural practices for vegetable and field crops]. Leningrad? Leningradskoe Gazetno-zhurnal'noe i Knizhnoe Izd-vo, 1947. 694 p. 64 B84
- 24601 **GARCÍA ROMERO, A.** Siembras. Siembra 1948(10): 6-7. Oct. 1948. 15 Si1
- 24602 **GASPARINI, M.** Recent developments in agronomy. (In Italian.) Humus 4(10): 3-4. Oct. 1948. 16 H88
- 24603 **HAGEN, C.** Warehouse overflow is convincing evidence that better farming pays off. Idaho Farmer 67: 31, 52. Jan. 20, 1949. 6 G282
- Field crop yields and conservation farming.
- 24604 **HÜBNER, R.** Praktikum der landwirtschaftlichen samenkunde. Wolfenbüttel-Hannover, Wolfenbütteler Verlagsanstalt, 1947. 128 p. 61 H86
- 24605 **IAKUSHKIN, I. V.** Uvelichim proizvodstvo tekhnicheskikh kul'tur [Let us increase the production of technical crops]. Moskva, Gos. izd-vo polit. lit-ry, 1947. 69 p. 64 Ia5U
- 24606 **JINENDRADASA, P. T.** Rotational farming scheme, Kurundankulama, North-Central Province. Trop. Agr. [Ceylon] 104: 27-37. Jan./Mar. 1948. 26 T751
- 24607 **KÖHLER, R.** Nochmals: wintermischlinganbau lohnt sich. Oberösterr. Landwirtschaftsztg. 20(51): 1. Dec. 15, 1948. 19 Ob23
- 24608 **MCWETHY, J. A.** Plants grow better with magic coating. West. Livestock J. 27(6): 92. Dec. 15, 1948. 6 F2278
- Pelleted seed.
- 24609 **NAJJAR, H. A.** Crop rotations. (In Arabic.) Syria. Ext. Serv. C. 31, 16 p. Oct. 1948. 22.5 Sy8
- English summary.
- 24610 **NEAL, O. R.** Crop rotation for conservation and fertility maintenance. Hort. News 30: 2126. Jan. 1949. 81 N46
- 24611 **POZO PELAYO, C. DEL.** Alternativa de cosechas. Surco [Madrid] 7(78): 5-8. Aug. 1948. 15 Su7
- 24612 **RENAUD, M.** A quelle époque devez-vous planter. Colon Franç. de Tunisie 58(2079): 1-2. Dec. 25, 1948. 24 C712
- 24613 **SNIDER, H. J.** Crop rotation and fertilizers add quality to crops. Hoard's Dairyman 94(3): 141. Feb. 10, 1949. 44.8 H65
- 24614 **SPAFFORD, W. J.** Still wider rotation-of-cropping for Lower North districts. So. Austral. Dept. Agr. J. 52: 159-163. Nov. 1948. 23 So84
- 24615 **STREETS, R. B.** Profitable use of root-rot-infested irrigated land. (Abs.) Phytopathology 38: 918-919. Nov. 1948. 464.8 P56
- Rotation of crops.
- 24616 **WILLARD, C. J.** An agronomist in Britain, 1948. Agron. J. 41: 9-12. Jan. 1949. 4 Am34P
- Cereals**
- 24617 **ÅBERG, E.** Naked barleys in Sweden. (In Swedish.) K. Lantbruksakad. Tidskr. 87: 333-345. Ref. 1948. 104 Sw3
- English summary.
- 24618 **ANDRÉS, J. M.** Híbridos comerciales de maíz. Bolsa de Cereales, Buenos Aires. Rev. 35(1868): 3-4, 6, 8-9, 11. Oct. 14, 1948. 287 B866
- 24619 **BASS, L. N.** Germination of freshly harvested oats. Assoc. Off. Seed Anal. Proc. 38: 47-52. Ref. 1948. 61.9 As7
- 24620 **BEAVEN, E. S.** Barley: fifty years of observation and experiment. London, Duckworth, 1947. 394 p. 59.21 B38B
- 24621 **BOMPARD, L.** Mission pour l'étude de la riziculture en Italie. Bouches du Rhone Agr. 22(993): 5-6; (994): 4. (Cont.) Jan. 1-15, 1949. 14 B662
- 24622 **BOTTAZZI, A.** Notes on grain culture. (In Italian.) Avenire Agr. 56: 254-256. Oct. 1948. 16 Av9
- 24623 **BRÉTIGNIÈRE, L., and BOUET.** Les blés à la ferme expérimentale de Grignon. Agr. Prat. 112: 355. Oct. 1948. 14 J82
- 24624 **CHAFFIN, J. W.** Sorghums for grain and forage. Okla. Agr. Col. Ext. C. 478, 22 p. 1948? 275.29 Ok41C
- 24625 **CLAPP, A. L.** Cooperative sorghum variety tests, 1948. Kans. Agr. Expt. Sta. Rpt. Prog. Ser. C. E. 13, 2 p. 1948? 100 K13Rs
- 24626 **COSTA, W. F. DA.** Wheat, rye, barley and oats; botanical differentiation. (In Portuguese.) Agronomia [Rio de Janeiro] 7: 131-139. July/Sept. 1948. 9.2 Ag892
- 24627 **COTTE, A.** Essais de sorghos à l'Ecole National d'Agriculture de Montpellier. Prog. Agr. et Vitic. 1949: 20-24. (To be cont.) Jan. 2/9, 1949. 14 P94
- 24628 **CRIM, R. F., and others.** Maturity ratings of corn hybrids registered for sale in Minnesota in 1947. Minn. Agr. Expt. Sta. Misc. Rpt. 5, 24 p. June 1948. 100 M66
- H. K. Hayes, E. H. Rinke, G. Joachim, R. E. Hodgson, R. O. Bridgford, and O. C. Soine, joint authors.
- 24629 **CROCIONI, A.** La cimatura e la sfogliatura del granoturco in relazione alla siccità [Topping and defoliation of corn in relation to drought]. Roma, Ramo Editoriale Degli Agricoltori, 1947. 8 p. 59.22 C87
- 24630 **DEERING, F. J.** It's the bushels of corn per acre that count. Farmer-Stockman 62: 4, 8. Jan. 1949. 6 Ok45
- Hybrid varieties.
- 24631 **DERICK, R. A., and HAMILTON, D. G.** Oats in Canada. Canada. Dept. Agr. Farmers' B. 27, rev., 24 p. 1948. 7 C16F
- 24632 **FEDOTOVA, T. I.** Abnormality in the seed sprouting of cereals. (In Russian.) Leningrad. Inst. Zashch. Rast. Sborn. Trud. 1: 60-61. 1948. 464.9 L542S
- Due to shallow planting.
- 24633 **FENAROLI, L.** Corn hybrids. (In Italian.) Sci. e Lav. 3: 194-196. Oct. 1948. 475 Sci27
- 24634 **FONDARD, L.** Une blé vivace. Réveil Agr. 57: 370; 58: 1-2. Dec. 15, 1948-Jan. 1, 1949. 14 R322
- A hybrid.
- 24635 **GALLETTI, A. C.** How much grain [seed] for a hectare of land? (In Italian.) Terra [Firenze] 59(47): 2. Nov. 20, 1948. 16 T274
- 24636 **GILLIN, P.** La culture du seigle dans le Nord de la Tunisie. Colon. Franç. de Tunisie 58(2066): 1. Sept. 25, 1948. 24 C712
- 24637 **GORTARI, M.** Producción, caracterización y comercialización del trigo argentino. Agricultura [Madrid] 17: 440-444. Oct. 1948. 15 Ag84
- 24638 **HUTCHCROFT, C. D., and ROBINSON, J. L.** The 1948 Iowa corn yield test. Iowa. Agr. Expt. Sta. B. P97, p. 232-292. Feb. 1949. 100 Io9
- 24639 **JENNINGS, D. C.** Report on the search for a perennial wheat hybrid. Northwest. Miller, Milling Prod. Sect. 236(6): 3a, 20a, 23a. Nov. 9, 1948. 298.8 N81
- 24640 **JONES, D. F., and EVERETT, H. L.** Field corn trials, Mt. Carmel and Windsor, Connecticut, 1948. Conn. (State) Agr. Expt. Sta. Rpt. Prog. 48G1, 6 p. Jan. 15, 1949. 100 C763
- 24641 **KIESSELBACH, T. A., and LYNES, W. E.** Growing the winter wheat crop. Nebr. Agr. Expt. Sta. B. 389, 32 p. Aug. 1948. 100 N27
- 24642 **KLINGMAN, D.** Plant these oat and barley varieties in Wyoming. Wyo. Agr. Expt. Sta. C. 32, 4 p.-folder. Mar. 1948. 100 W99
- 24643 **ŁĄCZYŃSKA, T.** New rye-wheat hybrids and their scientific and practical value. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E 2: 285-336. Ref. 1947. 512 L96Ae
- English summary.
- 24644 **LA FUENTE DE LA CAMARA, F. DE.** El cultivo asociado de maíz y garbanzos. Agricultura [Madrid] 17: 496-501. Nov. 1948. 15 Ag84



- 24645 LATHROPE, H. R. Progress in wheat improvement in southwestern Indiana. Northwest. Miller, Milling Prod. Sect. 236(6): 24a-25a. Nov. 9, 1948. 298.8 N81
- 24646 LOMA, J. L. DE LA. Elección y preparación del trigo para siembra. Agr. Lagunero 3(30/31): 16-17. Oct./Nov. 1948. 8 Ag824
- 24647 MCGINNIS, R. I. Women grow rice, too. Rice News 15, i. e. 51(12): 4, 6. Dec. 1948. 59.8 R362
- 24648 MCKEON, C. J. Maize. Queensland. Div. Plant Indus. Pam. 121, 20 p. Oct. 21, 1947. 423.92 Q3P
- 24649 MCLAIN, J. Arizona's chemurgic hope; sorghum scientists see chemurgic industrial future for Arizona's lush irrigated grain sorghum acreage. South. Seedsman 12: 16, 55. Jan. 1949. 61.8 So8
- 24650 MIEGE, E. A propos de la culture des céréales. Inform. Maroc. 403: 1, 3. Oct. 2, 1948. 281.8 In3
- 24651 MURPHY, H. C. There'll be more "new oats." Iowa. State Col. Agr. Ext. Iowa Farm Sci. 3(6): 9-10. Dec. 1948. 275.28 Io94
- 24652 NAJJAR, H. A. Cereal seed selection. (In Arabic.) Syria. Ext. Serv. C. 26, 11 p. May 1948. 22.5 Sy8  
English summary.
- 24653 NIVEN, L. A. Sweet corn pays off in cash. Prog. Farmer, Miss.-Ark.-La. Ed. 64: 15. Jan. 1949. 6 So81  
Culture in Mississippi.
- 24654 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Oats—a vital crop. North. Ireland. Min. Agr. Monthly Rpt. 23: 267-272. Jan. 1949. 256.13 Ag82M  
Culture.
- 24655 ODLAND, M. L., and NOLL, C. J. Pop corn variety and strain trials, 1948. Pa. Agr. Expt. Sta. J. Ser. Paper 1490, 3 p. Nov. 19, 1948. 100 P381J
- 24656 PICKETT, J. For corn's sake! Let's hurry, California. Calif. Farmer, North. Ed. 190: 38-39. Jan. 15, 1949. 6 C126  
Hybrid corn production in California.
- 24657 POZO, C. DEL. Trigos nuevos: el Terminillo. Agricultura [Madrid] 17: 507-510. Nov. 1948. 15 Ag84
- 24658 RANKIN, W. H. Five steps to success in small grain production. Victory Farm Forum 33: 2. Dec. 1948. 281.8 F226
- 24659 RAYNS, F. Nutrition of farm crops. II. Nutrition of cereals. Farming [Norwich] 2: 366-370. Dec. 1948. 10 F2236  
How mineral deficiencies may be corrected.
- 24660 ROBERTSON, D. W., and others. Culture of barley in Colorado. Colo. Agr. Expt. Sta. Tech. B. 39, 23 p. June 1948. 100 C71S  
D. Koonce, R. Tucker, J. F. Brandon, and T. E. Haus, joint authors.
- 24661 RUSCHEL, E. Prof. Novelli's trip to Rio Grande do Sul. (In Portuguese.) Lav. Arroz. 2(22): 9-10. Oct. 1948. 59.8 L39  
Contribution to history of rice culture.
- 24662 RYAN, B. A study in technological diffusion. Rur. Sociol. 13: 273-285. Sept. 1948. 281.28 R88  
Hybrid seed corn.
- 24663 SALA ROCA, E. La genética cerealícola en Francia. Ager (ser. 2) 4: 193-194. Oct. 1948. 33.23 Ag3
- 24664 SARTORIO, A. Decalogue of the mountain grain grower. (In Italian.) Coop. e Agr. 30(41): 2. Oct. 23, 1948. 16 C78
- 24665 SELLERS, W. P. Resultado de una demostración: tema: arroz. Rev. de Agr., Com. e Indus. [Panama] 7(82): 11-23, 26-27. June 1948. 8 R3291
- 24666 SNELL, R. S., and others. Growing winter wheat in New Jersey. N. J. Agr. Expt. Sta. B. 743, 27 p. Oct. 1948. 100 N46S  
C. S. Garrison, G. H. Ahlgren, and J. E. Baylor, joint authors.
- 24667 SOBRERO, L. R. Selección y mejoramiento de los cereales para semilla. Bolsa de Com. del Rosario. Rev. 36(885): 7-8, 10-11. Nov. 30, 1948. 287 R71
- 24668 VASIL'CHENKO, A. A. Experiments with sowing standards and narrower spaces between rows of winter and spring wheat. (In Russian.) Vsesoizn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchet 1941-1944: 281-295. 1947. 77.9 K86N
- 24669 VIANNA E SILVA, M. Rice in the language of the people. (In Portuguese.) Lav. Arroz. 2(22): 13-15. Oct. 1948. 59.8 L39
- 24670 VOLANTI, U. Hail-damaged wheat which revives. (In Italian.) Agr. Bresciana 1(42): 1. Oct. 20, 1948. 16 Ag89
- 24671 WASSON, R. A., and KILLGORE, A. G. Louisiana corn. La. Agr. Col. Ext. C. 161, 16 p. Sept. 1948. 275.29 L93C
- 24672 WATT, R. D. The problems and possibilities of wheat-growing in Australia. Empire J. Expt. Agr. 16: 187-194. Oct. 1948. 10 Em7
- 24673 WHITLOW, S. Pasture test report. Rice News 16: 6, 13. Jan. 1949. 59.8 R362
- 24674 WHITLOW, S. RN. Rice News 15, i. e. 51(12): 9. Dec. 1948. 59.8 R362  
A variety.
- 24675 WILL, G. F. The Mother Corn ceremony. N. & S. Dak. Hort. 21: 168. Dec. 1948. 81 N817  
Arikara Indian rite.
- 24676 YOSHIOKA, K., and MIYAKE, A. Studies on the direct seeding methods of rice cultivation. 1-4. (In Japanese.) Ohara Inst. Agr. Res. Rpt. 37(1): 11-16; (3): 29-32. June 1947, May 1948. 22.5 N684
- 24677 ZANNONI, I. Let us prepare for grain planting. (In Italian.) Coltivatore e Glor. Vinic. Ital. 94: 172-173. Sept. 30, 1948. 16 C72

## Fiber Crops

- 24678 ACCO PRESS. San Joaquin—fabulous valley. Acco Press 27: 1-9. Jan. 1949. 6 Ac2  
Cotton farming practices, San Joaquin Valley of California.
- 24679 ANANDAN, M. 'Note' on the trial of Cambodia cotton at the Agricultural Research Station, Aduturai, Tanjore Delta. Indian Cotton Growing Rev. 2: 199-207. Oct. 1948. 72.8 In23
- 24680 ARGENTINE REPUBLIC. DIRECCIÓN DE AGRICULTURA. DIVISIÓN DE PLANTAS TEXTILES. El cáñamo. n. p., 1947. 4 p. 73.2 Ar3
- 24681 ASOCIACION ALGODONERA MEXICANA. A report on the agricultural and industrial development of the Matamoros cotton region, Tamaulipas, Mexico. H. Matamoros, Tamps., Mexico, 1948. 40 p. 72 As5
- 24682 BERTONI, M. S. La rosella (Hibiscus sabdariffa), planta textil; su cultivo en Santa Ana. Rev. de Agr. Trop. [Salvador] 14(25): 71-73. 1947. 8 R326
- 24683 BERUFSSKUNDLICHE LEHR- UND ARBEITS-BLÄTTER. Der anbau von flachs und hanf. Bremen, Dorn, 1947. 9 p. 73 B46
- 24684 BROWN, P. Breeding for fiber quality. Spinner-Breeder Conf. Proc. 5: 15-17. 1948. 72.9 C765  
Cotton.
- 24685 CHOUDHURY, J. K. Growth of jute plants and the changes in the work of rupture of their fibre. Sci. and Cult. 12: 447. Mar. 1947. 475 Sci24
- 24686 CLYDESDALE, C. S. Linseed growing. Queensland. Div. Plant Indus. Adv. Leaflet 136, 5 p. May 4, 1948. 423.92 Q3A
- 24687 CULPIN, C. Linseed harvesting and threshing; some practical points for Australian linseed growers. Power Farming Austral. 57(7): 9, 11-12. July 1948. 58.8 P87
- 24688 DICK, J. B. Breeding for improved grades. Spinner-Breeder Conf. Proc. 5: 19-21. 1948. 72.9 C765  
Cotton.
- 24689 DIEZ CANSECO B., A. El cultivo del algodón y su importancia en la economía de la provincia de Manabí. Manabí, Ecuador. Consorcio de Cent. Agr. B. 11(56): 50-62. Oct./Dec. 1948. 9.5 M31
- 24690 EWING, E. C. History of cotton varieties. Spinner-Breeder Conf. Proc. 5: 8-11. 1948. 72.9 C765
- 24691 FRÖIER, K. Among Blenda-flax, Kristina-flax and hermaphrodite hemp. (In Swedish.) Textil och Konfektion 5: 274-275, 288-289. 1948. 304.8 T3192  
English summary, p. 291.
- 24692 ILLIES, Z. M. Untersuchungen über die auslesemöglichkeit faserreicher kreuzungsnachkommen auf mikroskopischem wege bei züchterischen arbeiten mit bastfaserpflanzen. Bot. Oecon. 1: 86-116. Ref. Aug. 1948. 450 B6528  
English, French, and Russian summaries.
- 24693 JOHNSON, V. A. Machine picking. Spinner-Breeder Conf. Proc. 5: 37-38. 1948. 72.9 C765  
Cotton.



- 24694 LUNA ERCILLA, C. A. Estudio e inventario de Bromeliaceas indígenas textiles en el Nordeste de Salta. Argentina. Dir. de Inform. P. Misc. 301, 88 p. 1948. 9 P943
- 24695 MIEGE, E. Quelques renseignements nouveaux sur le lin oléagineux. Inform. Maroc. 403: 1-2. Oct. 2, 1948. 281.8 In3
- 24696 NAYAK, H. R. Studies in the quality of hirsutum cottons grown under irrigation on the Arbahi Farm. Indian Cotton Growing Rev. 2: 178-186. Ref. Oct. 1948. 72.8 In23
- 24697 NEELY, J. W. The A B C's of cotton breeding. Spinner-Breeder Conf. Proc. 5: 12-15. 1948. 72.9 C765
- 24698 NELSON, E. The "wonder fiber," ramie. Nat. Hist. 58: 20-23. Jan. 1949. 500 N483J
- 24699 PAATELA, J. On the possibilities of growing oil flax in Finland; on the quality of Finnish linseed oil and some factors affecting it. Suomen Maataloustiet. Seura. Julkaisu 68: 1-110. Ref. 1948. 20 Su7
- 24700 RIVALS, P. Considération sur l'aloès de Bourbon ou Fourcroya gigantea Vent. De l'utilisation de sa fibre dans les moissonneuses lieuses—perspective d'avenir. Rev. Agr. de l'île Réunion 48: 221-226. July/Aug. 1948. 25 R32
- 24701 ROARK, C. L. How rearranging rows increased cotton yields. Cotton Gin & Oil Mill Press 50(3): 14-15. Feb. 5, 1949. 304.8 C822
- 24702 ROGERS, C. H. Breeding cotton for wilt resistance. Spinner-Breeder Conf. Proc. 5: 17-18. 1948. 72.9 C765
- 24703 SPINNER-BREEDER CONFERENCE. Proceedings, fifth conference, Greenville and Stoneville, Mississippi, September 20-22, 1948. Greenville, Miss., 1948. 52 p. 72.9 C765
- 24704 STROMAN, G. N. 1517B, a new strain of 1517 cotton for the Rio Grande Valley. N. Mex. Agr. Expt. Sta. P. B. 1027, 7 p. Jan. 1949. 100 N465
- 24705 TOBLER, F. Flachs und hanf. Geflügelhof 11: 735. Nov. 19, 1948. 47.8 G276
- Culture and processing in Switzerland.
- 24706 VALLE, R. H. Honequén, la vaca verde. Agr. Lagunero 3(30/31): 20, 23. Oct./Nov. 1948. 8 Ag824
- 24707 VARELA MARTINEZ, R. Producción del fique en Colombia. Agr. Trop. 4(12): 13-15. Dec. 15, 1948. 26 Ag8
- 24708 WASSON, R. A., and CARSON, I. W. Louisiana cotton. La. Agr. Col. Ext. B. 14, 32 p. Oct. 1948. 275.29 L93B4
- 24709 WHILLANS, K. M. Greater yields by artificial defoliation. O. A. C. Rev. 61: 196-197, 228. Jan. 1949. 276.8 On8
- Cotton.
- 24710 WILDS, G. History and accomplishments of Spinner-Breeder Conference. Spinner-Breeder Conf. Proc. 5: 5-8. 1948. 72.9 C765
- Cotton.
- Forage Crops and Grasses
- 24711 ANDERSON, A. W. Grass and legumes are profitable. Dakota Farmer 68(21): 32, 35. Nov. 6, 1948. 6 D14
- 24712 ANDERSON, O. L. Better grass saves water—makes better grass. Mont. Farmer-Stockman 36(10): 1, 4. Jan. 15, 1949. 6 M764
- Conservation farming.
- 24713 BELL, R., and MCDOWELL, K. A. Grassland on a Northern Ireland farm. Gt. Brit. Min. Agr. Agriculture 55: 438-441. Jan. 1949. 10 G79J
- Management.
- 24714 BULL, A. Low-cost beef from better pastures. Iowa Agriculturist 47(5): 8-9. Dec. 1948. 6 Io9
- 24715 CAMPBELL, R. S., and CASSADY, J. T. Determining forage weight on southern forest ranges. J. Range Mangt. 2: 30-32. Jan. 1949. 60.18 J82
- 24716 CAMPBELL, R. S. Milestones in range management. J. Range Mangt. 1: 4-8. Oct. 1948. 60.18 J82
- 24717 CAROLA, J., and CADIER, R. Les prairies du Thymerais. Défense Agr. de la Beauce et du Perche 46(2): 9-10. Jan. 10, 1949. 14 D36
- 24718 CHERNIAEV, V. A. Choosing the components of forage plant and grass mixtures and their culture. (In Russian.) Vsesofuzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchet 1941-1944: 208-230. 1947. 77.9 K86N
- 24719 CHHIBBER, H. L. A preliminary note on the grasslands of the Jubbulpore District, Central Provinces. Sci. and Cult. 12: 447-448. Mar. 1947. 475 Sci24
- 24720 CHIPPINDALE, H. G. Grass mixtures and management. Worcestershire Agr. Chron. 17(1): 17, 19, 21, 23, 25, 27, 29. Nov. 1948. 10 W892
- 24721 CLYDESDALE, C. S. Canary seed [Phalaris canariensis]. Queensland. Div. Plant Indus. Adv. Leaflet 133, 2 p. Feb. 27, 1948. 423.92 Q3A
- 24722 COCKAYNE, A. H. The future of Dominion's grasslands; New Zealand's security depends upon her grassland production. Straight Furrow 8(2): 4-5. Dec. 15, 1948. 281.8 St8
- 24723 COOK, L. J. Lucerne on the red sand soils at Wokurna, 1937-48. So. Austral. Dept. Agr. J. 52: 164-169. Nov. 1948. 23 So84
- 24724 CRAVEN, W. H. Permanent pastures in South Carolina. Better Crops Plant Food 33: 19-20, 47. Jan. 1949. 6 B46
- 24725 CROS SARRIÁ, M. El problema de la alfalfa. Ganadería [Madrid] 6: 429-430. Aug. 1948. 49 G15
- 24726 CULBERTSON, R. E., and CARVAJALINO JACOME, L. J. Algunas gramíneas importantes. Rev. Nac. de Agr. 41(506): 38-40. June 1947. 9.4 R32
- Colombia.
- 24727 CULBERTSON, R. E., and CARVAJALINO JACOME, L. J. El cultivo de la alfalfa y del trebol Rojo Gigante. Rev. Nac. de Agr. [Bogotá] 41(503/504): 33-36. Mar./Apr. 1947. 9.4 R32
- 24728 DAVIES, W. The Grassland Improvement Station, Stratford-on-Avon, England. Brit. Agr. B. 1: 54-59. Summer 1948. 10 B776
- 24729 DEAN, J. G. Cultural problems of legume seed production. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 95. 1948. 423.9 Am32
- 24730 DEHLINGER, M. Mähweiden steigern grünland-erträge. Neue Mitt. f. die Landw. 3: 481-482. Dec. 25, 1948. 18 N39
- 24731 DONÀ DALLE ROSE, A. On the agricultural value of the goat's-rue (Galega officinalis L.). I. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 443-455. Ref. 1948. 16 An76
- English summary.
- 24732 DOUGLAS, L. At last. Amer. Cattle Prod. 30(8): 10, 33. Jan. 1949. 49 P94
- Forest Service gets funds for range improvement.
- 24733 ECKMÜLLNER, O. Die schafweide im bergwald. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 171-173. Nov. 1948. 99.8 AL53
- 24734 ELLISON, W. Grassland management and the animal. Farming [Norwich] 3: 18-21. Jan. 1949. 10 F2236
- 24735 FORMIGONI. Success of an experiment in pasturing on the Gotta pasture in Intelvi Valley. (In Italian.) Campagna 47: 238-239. Oct. 1, 1948. 16 C152
- 24736 FRANKENA, H. J. Impressions from North-Brabants sandy soils. More profit from the grassland. (In Dutch.) Boer en Tuinder 2(88): 1. Sept. 11, 1948. 12 B632
- 24737 FUELLEMAN, R. F. That big white clover, Ladino. Breeder's Gaz. 114(2): 6. Feb. 1949. 49 B74
- 24738 GAROLA, J., and CADIER, R. Les prairies du Thymerais. Acad. d'Agr. de France. Compt. Rend. 34: 912-915. Nov. 10/17, 1948. 14 P215Bc
- 24739 GARRIGUES, R. La pastèque fourragère susceptible d'être cultivée dans toutes les régions de l'Afrique du Nord. Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc. 18: 391. Dec. 1948. 80 F9482
- 24740 GEORGIA COASTAL PLAIN EXPERIMENT STATION. Lowland permanent pastures for the Coastal Plain of Georgia. Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 58, 2 p. Nov. 23, 1948. 100 G282M
- 24741 GEORGIA COASTAL PLAIN EXPERIMENT STATION. Upland permanent pastures for the Coastal Plain of Georgia. Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 1, rev., 2 p. Nov. 1948. 100 G292M
- 24742 GILARDI R., L. Cultivos asociados de plantas forrajeras. Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad. 2(6): 34-37. Sept. 1948. 49.9 P433



- 24743 GIÖBEL, G. Different types of meadows and their suitability for pasture and silage. (In Swedish.) (Sum.) Lantmannen 32: 864. Dec. 25, 1948. 11 L234
- 24744 GIRALDO, M. G. La veza: cosechas abundantes y ganadería productiva. Rev. Nac. de Agr. [Bogotá] 41(508): 18-19. Aug. 1947. 9.4 R32
- 24745 GONZÁLEZ, A. DE J. La yerba camagüeyana. Rev. de Agr. Trop. [Salvador] 14(25): 64-66. 1947. 8 R326  
Andropogon pertusus.
- 24746 GONZÁLEZ, A. DE J. La yerba de Guinea. Rev. de Agr. Trop. [Salvador] 14(25): 69-71. 1947. 8 R326
- 24747 GONZÁLEZ, A. DE J. La yerba de Pará o Paraná. Rev. de Agr. Trop. [Salvador] 14(25): 67-69. 1947. 8 R326
- 24748 GUTERMANN. Stoppelfutter durch anbau von sommerraps. Württemb. Wchnbl. f. Landw. 115: 217. Aug. 14, 1948. 18 W96
- 24749 HACKBARTH, J. Wo steht die süßlupinen-zucht heute? Neue Mitt. f. die Landw. 3: 115-116. Apr. 21, 1948. 18 N39  
Germany.
- 24750 HAFENRICHTER, A. L. Getting new range plants into practice. J. Range Mangt. 1: 9-18. Oct. 1948. 60.18 J82
- 24751 HARRISON, C. M. Forage crop management for higher yields. III. Hoard's Dairyman 94(1): 14. Jan. 10, 1949. 44.8 H65
- 24752 HARRISON, C. M. The heart of the crop rotation. Hoard's Dairyman 94: 168-169. Feb. 25, 1949. 44.8 H65  
Pastures.
- 24753 HEATH, M. E. The need for grassland husbandry (with emphasis on the Corn Belt). Better Crops Plant Food 32(8): 14-16, 46-48. Oct. 1948. 6 B46
- 24754 HEDDLE, R. G. Grassland in the East of Scotland. Brit. Grassland Soc. J. 3: 273-281. Dec. 1948. 60.19 B773
- 24755 HILL, R. P. Phalaris tuberosa in Hawke's Bay. New Zeal. J. Agr. 77: 568. Dec. 1948. 23 N48J
- 24756 HOLDEN, F. J. S. Establishing pampas grass in Southern Hawke's Bay. New Zeal. J. Agr. 77: 367-365-366. Oct. 1948. 23 N48J
- 24757 HORNER, W. H. Let's grow our own hay. Dairyman's Topics 1948: 3-4. Sept. 1948. 44.9 Sa72D
- 24758 HOWELL, H. B. A legume for acid soils, Lotus uliginosus (L. major). Oreg. Agr. Expt. Sta. B. 456, 25 p. July 1948. 100 Or3
- 24759 HUERTA, A. DE LA. El teosinte. Agricultura [Madrid] 17: 454-455. Oct. 1948. 15 Ag84
- 24760 HULL, A. C., JR., and JOHNSON, W. M. Re-seed, then graze properly. Rec. Stockman, Ann. Ed. 59 (52): 233, 236-237. Dec. 23, 1948. 49 D43  
Range restoration.
- 24761 HUMPHREY, R. R. Field comments on the range condition method of forage survey. J. Range Mangt. 2: 1-10. Ref. Jan. 1949. 60.18 J82
- 24762 IGNAT'EV, B. K. Effect of cover crops on the yields of perennial forage plants and grasses. (In Russian.) Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otdel 1941-1944: 231-237. 1947. 77.9 K86N
- 24763 JACKMAN, E. R. Lost—two hundred million pounds of meat. Country Gent. 119: 15, 95-97. Jan. 1949. 6 C833  
A survey and solution of grazing problems on National forest land.
- 24764 JESSUP, R. W. Our pastoral areas. So. Austral. Dept. Agr. J. 52: 174-177. Nov. 1948. 23 So84  
First of a series dealing with plants of the arid pastoral country of South Australia.
- 24765 JETER, F. H. A new pattern of farming in the Deep South. Victory Farm Forum 33: 15-16. Dec. 1948. 281.8 F226  
Grassland farming.
- 24766 JOLLY, R. G. Seed production in New Zealand; Italian ryegrass. New Zeal. J. Agr. 77: 549-553, 555-556. Dec. 1948. 23 N48J
- 24767 JORDAN, H. L. El frijol terciopelo. Agricultura [Madrid] 17: 401-403. Sept. 1948. 15 Ag84
- 24768 KIEŁPINSKI, J. Methods of raising the productivity of meadows and pastures in the Polish mountains. (In Polish.) Przegl. Hodowlany 16: 308-311. Oct. 1948. 49 P952
- 24769 KJAR, N. A. M., and WILSON, R. J. Pasture establishment on Sandy Heath soils; summary of four years' trials at "Waterhouse." Tasmanian J. Agr. 19: 176-189. Nov. 1948. 23 T182T
- 24770 LA COSTE, R. More grass, he says. Rec. Stockman, Ann. Ed. 59(52): 106-107, 109, 111. Dec. 23, 1948. 49 D43  
W. R. Chapline's ideas on reseeding western range lands.
- 24771 LAVALLARD, M. L. Cold-hardy vetch, blight resistant oat developed by Arkansas Station. South. Seedsman 12(2): 26-27. Feb. 1949. 61.8 So8
- 24772 LEON JORDÁN, H. Forrajes modernos de secano: las Crotalaria para terrenos arenosos o permeables de baja fertilidad. Ganadería [Madrid] 6: 530-532. Oct. 1948. 49 G15
- 24773 LOVVORN, R. L. Italy's gift to the South. South. Seedsman 12(2): 18, 43. Feb. 1949. 61.8 So8  
Ladino clover.
- 24774 LOVVORN, R. L., and WOODHOUSE, W. W., JR. Ladino clover moves South. Crops & Soils 1(3): 16-17. Dec. 1948. 6 W55
- 24775 MCKEE, R., and STEPHENS, J. L. Kudzu as a farm crop. U. S. D. A. Farmers' B. 1923, slightly rev., 14 p. Dec. 1948. 1 Ag84F
- 24776 MARTILATTI, E. La tuna sin espinas como forraje de invierno. Campo y Suelo Argentino 32(386): 18-19. Dec. 1948. 9 C15  
Culture.
- 24777 MEHLE, A. Die süßlupine in Bayern. Landw. Wchnbl. 139: 8. Jan. 1, 1949. 18 L2338
- 24778 MICHOT, P. Les soins d'hiver laux prairies naturelles. Avenir Paysan de la Haute-Marne 5(81): 1. Jan. 21, 1949. 14 Av3
- 24779 NARASIMHAMURTHY, B. L. A note on J.75 (fodder sorghum) of the Agricultural Research Station, Guntur. Madras Agr. J. 35: 288-291. Oct. 1948. 22 M262
- 24780 NASSO, A. DI. Restoration of meadows. (In Italian.) Romagna Agr. e Zootec. 33(2): 3. Feb. 1948. 16 R66
- 24781 NELSON, M. L. Green pastures are natural to Vermont. Agr. Leaders' Digest 29(9): 26, 28. Oct. 1948. 275.28 Am3
- 24782 NIXON, W. M., and GILLET, P. T. Establishing Bermuda-grass. Better Crops Plant Food 33: 23-26, 42-44. Jan. 1949. 6 B46
- 24783 NIXON, W. M. For good stands plant kudzu from seed. Crops & Soils 1(3): 14-15. Dec. 1948. 6 W55
- 24784 OLIVER, H. Ranch management. J. Range Mangt. 2: 11-16. Jan. 1949. 60.18 J82
- 24785 OLIVER, MRS. P. The legumes or pulse family. Gard. Club Amer. B. (ser. 11) 12: 24-27. Jan. 1949. 90.32 G16
- 24786 PÁEZ C., J. El kudzu. Rev. de Agr. de Puerto Rico 39(1): 88-101. Ref. Jan./June 1948. 8 R325
- 24787 PETERSON, W. J., and WAUGH, R. K. For greatest feed values from pastures. Prog. Farmer, Car.-Va. Ed. 64: 15. Jan. 1949. 6 P945  
Management.
- 24788 PRINCE, F. S. Season-long pasture for New England. Better Crops Plant Food 32(10): 21-24, 48-50. Dec. 1948. 6 B46
- 24789 RAMONA, R. DE. Praderas de alfalfa en secano. Cult. Mod. 31: 337-338. Sept. 1948. 15 C89
- 24790 RAPPE, G. On pasture regrowth. (In Swedish.) Norsk Myrselskap. Meddel. 46: 131-134. Dec. 1948. 11 N813
- 24791 RATERA, E. L. Consideraciones generales sobre el pasto Bermuda (Cynodon dactylon Linn. Pers.). Bolsa de Cereales, Buenos Aires. Rev. 35(1872): 10, 21-23. Ref. Nov. 11, 1948. 287 B866
- 24792 RICHARDS, J. G. Seed production in New Zealand; browntop. New Zeal. J. Agr. 77: 393-398. Oct. 1948. 23 N48J  
Bentgrass.
- 24793 RIEWE, M. E. Experience with Madrid clover. Farm & Ranch 68: 30-31. Jan. 1949. 6 T31
- 24794 ROBERTSON, D. W., WEIHING, R. M., and TUCKER, R. H. Pasture and forage crops for irrigated areas in Colorado. Colo. Agr. Col. Ext. B. 403-A, 46 p. Aug. 1948. 275.29 C71E
- 24795 ROBINSON, D. H. Forage plants. New Biol. 3: 28-48. 1947. 442.8 J63



- 24796 RUSSELL, M. Recipe for reseeding. *Colo. Rancher & Farmer* 3: 1, 10-11. Jan. 8, 1949. 6 C714 Grass seeding.
- 24797 SABNIS, T. S., MEHTA, T. R., and MEHTA, Y. R. Improvement of gram [Chickpea] in the United Provinces. *Indian Farming* 8: 328-332. July 1947. 22 In283.
- 24798 SANKARAIAH, K. Note on trials on Jonna (jowar) seed varieties. *Madras Agr. J.* 35: 292-295. Oct. 1948. 22 M262
- 24799 SANTOLALLA, N. R. El *Lupinus dulcis*; una planta de gran importancia para la sierra y otras leguminosas forrajeras de posible cultivo en los Andes peruanos. *Lanares y Lanas* 3(12): 17-18. July/Sept. 1948. 45.8 L22
- 24800 SAXBY, S. H. Importance of clover's role in New Zealand grassland farming. *New Zeal. J. Agr.* 77: 360-362. Oct. 1948. 23 N48J
- 24801 SERVISS, G. Birdsfoot trefoil, a promising perennial legume. *Amer. Agr.* 145: 684. Dec. 18, 1948. 6 Am3
- 24802 SHAW, L. Regrassing Oregon rangeland. *Amer. Cattle Prod.* 30(8): 12-13. Jan. 1949. 49 P94
- 24803 SMITH, E. G. Seed production in New Zealand; perennial ryegrass. *New Zeal. J. Agr.* 77: 449-456. Nov. 1948. 23 N48J
- 24804 STAPLEDON, SIR R. G., and WHEELER, D. E. An experiment to test the influence of date and depth of sowing on four of the chief grasses and on white clover. *Brit. Grassland Soc. J.* 3: 263-272. Dec. 1948. 60.19 B773
- 24805 STAPLEDON, SIR R. G. Seeds mixtures: fallacies and facts. *Gt. Brit. Min. Agr. Agriculture* 55: 415-419. Jan. 1949. 10 G79J
- Productive grasses.
- 24806 STEWART, D. W. Ladino—the clover of the pasture. *O. A. C. Rev.* 61: 226, 228. Jan. 1949. 276.8 On8
- 24807 SUBTERRANEAN clover in south western Australia. I-V. *Austral. Inst. Agr. Sci. J.* 14: 119-124. Sept. 1948. 23 Au74
- I, The place of subterranean clover in pasture development in the heavy rainfall districts, by H. G. Elliot; II, The significance of subterranean clover in the Wheatbelt, by F. L. Shier; III, Subterranean clover in relation to soil erosion, by L. C. Lightfoot, IV, Subterranean clover and fertility in stock, by E. J. Underwood, V, Problems awaiting investigation, by R. C. Rossiter.
- 24808 TALLARICO, G. The Sila pastures that Vergil celebrated in the Eclogues. (In Italian.) *Gior. di Agr.* 58: 351. Dec. 12, 1948. 16 It1G
- 24809 THOMPSON, W. R. Winter grazing in South aids livestock industry. *Victory Farm Forum* 33: 16. Dec. 1948. 281.8 F226
- 24810 TURK, K. L. Plan now for better forage crops. *Dairymen's League News* 33(1): 6. Jan. 11, 1949. 44.8 D1432
- 24811 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. 1948 report of the Uniform Alfalfa Nurseries, conducted cooperatively with the various State agricultural experiment stations represented in the Alfalfa Improvement Conference, by H. M. Tysdal. Beltsville, Md., 1948. 176 p. 1.9 P691Rep
- 24812 U. S. FOREST SERV. SOUTHWESTERN FOREST AND RANGE EXPERIMENT STATION. Ranch Day, October 11, 1948. 1948. Tucson? 1948. 38 p. 1.9622 S3So81
- Chiefly range management.
- 24813 VALLÉS FERNÁNDEZ, P. La legislación de pastos y rastrojeras y sus problemas. B. de Divulg. Ganad. [Valladolid] 5(18): 29-32. June 1948. 49.9 Sp12
- 24814 VANDER MEULEN, E. Tall fescue. *Farm Q.* 3(4): 60-65, 114, 116, 118. Winter 1948. 6 F22995
- 24815 VÖLLING, W. E. Wirtschaftseigenes Futter; praktische anleitung für siedler und kleintierhalter. Ed. 3. Lüneburg, Kinau, 1947. 120 p. 60 V882
- 24816 WARREN, R., and FREED, V. Russian knapweed [Russian centaurea]. *Oreg. State Col. Ext. B.* 693, 4 p. Nov. 1948. 275.29 Or32B
- 24817 WEXELSEN, H. Directions for alfalfa culture. (In Norwegian.) *Tidsskr. for det Norske Landbr.* 1948: 211-218. Sept./Oct. 1948. 11 T433
- 24818 WHITE, H. P. A new kind of grass for the West. *West. Live Stock* 34(6): 13, 68, 70. Jan. 1949. 49 W523
- Intermediate wheat grass.
- 24819 WHYTE, R. O. The fodder resources of Cyprus, a report of a survey made in autumn, 1945, and spring, 1946. Nicosia, Cyprus Govt. Print. Off., 1948. 44 p. 60 W62F
- 24820 WILSON, P. Our experience with birdsfoot trefoil. *Amer. Agr.* 146: 27, 39. Jan. 15, 1949. 6 Am3
- 24821 WYND, F. L., STEINBAUER, G. P., and DIAZ, N. R. *Arundo donax* as a forage grass in sandy soils. *Lloydia* 11: 181-184. Sept. 1948. 442.8 L77
- 24822 WYOMING AGRICULTURAL EXPERIMENT STATION. Forage plants for Wyoming range. *Wyo. Agr. Expt. Sta. C.* 35, 4 p. Dec. 1948. 100 W99

## Oil Crops

- 24823 ALCÍVAR BARREIRO, U. R. Maní. Manabí, Ecuador. Consorcio de Cent. Agr. B. 11(56): 13-15, 17. Oct./Dec. 1948. 9.5 M31
- 24824 BANKS, G. H. South goes East. *Soybean Digest* 8(12): 16-18. Oct. 1948. 60.38 So9
- Soybeans in Korea.
- 24825 BORKOVSKII, V. E. Selection and seed production of the castor-oil plant. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët* 1941-1944: 67-78. 1947. 77.9 K86N
- 24826 CANODE, C. L. Soybean variety tests, 1948. *Okla. Agr. Expt. Sta. Mimeog. C. M-179*, 8 p. 1948? 100 Ok4M
- 24827 CLEAL, H. L. Adams, a new Cornbelt soybean. *Crops & Soils* 1(4): 18-20. Jan. 1949. 6 W66
- 24828 DANILENKO, A. A. Selection of oil flax. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët* 1941-1944: 96-106. 1947. 77.9 K86N
- 24829 FAIRCHILD, D. Early experiences with the soybean. *Soybean Digest* 9: 14-15. Nov. 1948. 60.38 So9
- 24830 GEORGIA COASTAL PLAIN EXPERIMENT STATION. Soybeans. *Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper* 11, rev., 2 p. Dec. 1948. 100 G292M
- 24831 GEVORKIANTS, S. A. Determining the place of oil crops in crop rotations with pasture. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët* 1941-1944: 171-181. 1947. 77.9 K86N
- 24832 GEVORKIANTS, S. A. Development of methods of sesame culture. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët* 1941-1944: 324-335. 1947. 77.9 K86N
- 24833 KÖNEMANN, E. Ölfruchtbau; anbau verwertung und ölgewinnung. Ed. 3, enl. Lüneburg, Kinau, 1947. 118 p. 77 K833
- 24834 LEIZ, F. Der anbau von ölfrüchten; eine leitfaden für die praxis. Ed. 2, rev. and enl. Stuttgart, Ulmer, 1947. 47 p. 77 L542
- 24835 LESHCHENKO, A. K. Selection and seed production of soybeans at the Kubanskaiā Opytnaiā Stanitsiā. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët* 1941-1944: 107-136. 1947. 77.9 K86N
- 24836 MINKEVICH, I. A. Selection of flax for seeds and fiber. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët* 1941-1944: 79-95. 1947. 77.9 K86N
- 24837 MOLNAR, I. The peanut production scheme in British East Africa, with a comparison between the climates of certain localities in British East Africa and tropical Australia. *Austral. Inst. Agr. Sci. J.* 14: 125-137. Ref. Sept. 1948. 23 Au74
- 24838 OWEN, C. W. Soybeans at Harrow; breeding work at the Ontario Experiment Station. *Soybean Digest* 9: 18. Nov. 1948. 60.38 So9
- 24839 PORCELLINI, A. Soybean cultivation tests. (In Italian.) *Avenire Agr.* 56: 257-258. Oct. 1948. 16 Av9
- 24840 PUSTOVOIT, V. S. Selection and seed production of sunflower. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët* 1941-1944: 11-44. 1947. 77.9 K86N
- 24841 ROMANIUK, G. T., and SHCHERBINA, V. I. Selection and seed production of sunflower. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët* 1941-1944: 59-66. 1947. 77.9 K86N
- 24842 UMEN, D. P. Selection and seed production of peanuts. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët* 1941-1944: 137-170. 1947. 77.9 K86N



24843 VAN DEN BERG, X. Nécessité des semences sélectionnées de tournesol. Inform. Maroc. 402: 1, 4. Sept. 25, 1948. 281.8 In3

24844 WEIBEL, R. O., and BURLISON, W. L. Castor beans; a review of the experimental work in the United States. Soybean Digest 9(3): 22-26. Ref. Jan. 1949. 60.38 So9

24845 ZHDANOV, L. A. Sunflower selection at the Donskaja Opytno-Selektsionnaja Stantsija Maslichnykh Kul'tur. (In Russian.) Vsesojuzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otcët 1941-1944: 45-58. 1947. 77.9 K86N

#### Sugar Crops

24846 ARANO, R. F. Caña-semilla seleccionada y multiplicación de variedades de caña de azúcar. Campo y Suelo Argentino 32(385): 24-25, 70. Nov. 1948. 9 C15

24847 ARMER, A. The 1949 sugar beet seed program. Spreckels Sugar Beet B. 13: 7-8. Jan./Feb. 1949. 66.8 Sp7

24848 CLAYTON, J. L. Sugar cane agriculture in Hawaii. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 59-79. Oct. 1, 1948. 65.9 Q3C

24849 COONS, G. H. The sugar beet: product of science. Sci. Monthly 68: 149-164. Ref. Mar. 1949. 470 Sci23

24850 DECOUX, L. La préparation superficielle du sol et le semis précoce de la betterave sucrière. Acad. d'Agr. de France. Compt. Rend. 34: 867-869. Oct. 13/20, 1948. 14 P21Bc

24851 DILLEWIJN, C. VAN. Sugar cane culture in Egypt. Sugar Indus. 2(5): 8-10, 12-13, 28-29. Sept./Oct. 1948. 65.8 Su332  
Text also in Spanish.

24852 GONZÁLEZ RÍOS, P. La producción de nuevas variedades de caña de azúcar. Rev. de Agr. de Puerto Rico 39(1): 8-14. Jan./June 1948. 8 R325

24853 HAMBURGER, H. Möglichkeiten der verringering der hauptfruchtfutterfläche durch zwischenfruchtbaue und anbau von zuckerrüben. II. Bad. Landw. Wchnbl. 115: 222. Nov. 27, 1948. 18 B142

24854 KELLEY, O. J. Sugar beets require plenty of moisture and fertilizer. Through Leaves 26, i. e. 36 (6): 15-20. Nov./Dec. 1948. 66.8 T41

24855 KING, N. J. Experiment Station field days. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 43-53. Oct. 1, 1948. 65.9 Q3C  
Includes talks by L. G. Vallance, J. H. Buzacott, and W. A. McDougall.

24856 KING, N. J. P.O.J.2878 in the Woongarra. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 83-86. Oct. 1, 1948. 65.9 Q3C

24857 PIERSON, A. V. Weather Bureau records can help the beet grower. Spreckels Sugar Beet B. 13: 2-3. Jan./Feb. 1949. 66.8 Sp7

24858 QUEENSLAND. BUR. OF SUGAR EXPERIMENT STATIONS. Annual report, 48, 1948. Brisbane, 1948. 48 p. 65.9 P3

24859 REGE, R. D., and SANNABHADTI, S. K. Sugarcane varieties in Deccan Canal Tract; some morphological and physiological characteristics. Indian Sugar 11: 165-167. Sept. 1948. 65.8 In25  
From Proceedings Deccan Sugar Technical Association, 1948.

24860 RIOLLANO, A., and JULIA, F. J. Tres nuevas variedades de caña para Puerto Rico. Rev. de Agr. de Puerto Rico 39(1): 83-87. Jan./June 1948. 8 R325

24861 RODRÍGUEZ CABRERA, M. Técnica empleada en los cruzamientos en la Estación Experimental de la Caña de Azúcar en Santiago de las Vegas. Agroecnia 2: 693-706. Oct.-Nov. 1948. 8 Ag825

24862 ROSS, R. Sugar cane experiments in Trinidad, 1947. Trinidad & Tobago, Agr. Soc. Proc. 47: 233-234. Sept. 1947. 8 T73

24863 SMITH, N. M. Q.42 in the far southern area. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 81-82. Oct. 1, 1948. 65.9 Q3C

24864 SMITH, P. B. Current practice in the United States. Brit. Sugar Beet Rev. 17: 73-75. Dec. 1948. 66.8 B77

24865 TROMP, L. A. Production of sugar in Peru; cane cultivation and harvesting in the Land of the Incas. Internatl. Sugar J. 51: 18-21. Jan. 1949. 65.8 In8

24866 UTAH-IDAHO SUGAR COMPANY. Decorticated sugar beet seed. Salt Lake City, 1948? 21 p. 66 UtlD

24867 WAUTHY, R. Les variétés de betterave sucrière en Belgique de 1943 à 1947. Inst. Belge pour l'Amélior. de la Betterave. P. 16: 283-286. Sept./Oct. 1948. 66.9 In7

English summary.

24868 WILHELM, K. Zucker- und futterrübe im bäuerlichen betrieb. Berlin, Deutscher Zentralverlag, 1947. 32 p. (Bauernfreund 8) 60.4 W64

#### Tobacco

24869 ALCARAZ MIRA, E. El nuevo centro de estudios del tabaco. Agricultura [Madrid] 17: 445-449. Oct. 1948. 15 Ag84

24870 BOUCLIER. Culture rationnelle du tabac à priser. Rev. Agr. de l'Afrique du Nord 46: 621-623. (Cont.) Dec. 10, 1948. 80 R326

24871 DÍAZ DURÁN, J. Cultivo del tabaco. Rev. de Agr. [San José] 20(12): 495-496. Dec. 1948. 8 Es1

24872 EGGLE, P. Anbau und fermentation des tabaks. Mannheim, Geppert, 1947? 35 p. 69 Eg5

24873 VITART. La culture du tabac en A. O. F. [Afrique Occidentale Française]. Rev. des Tabacs 23 (184): 19-22. 1948. 69.8 R325

#### HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

#### General

24874 ADAMS, H. Protecting green crops against frost. Poultry [London] 104: 71. Jan. 25, 1949. 47.8 P869

24875 ARRUDA, A. F. DE. My garden, invitation to horticulture. (In Portuguese.) Chacaras e Quintais 79: 71-74. (Cont.) Jan. 15, 1949. 9.2 C34

24876 BAILEY, R. The joys and sorrows of having a greenhouse. Home Gard. 13: 33-35. Jan. 1949. 80 H756

24877 BASTELEUS, R. Voyage autour d'un jardin japonais. B. Hort. (n. s.) 3: 370-371, 377. Dec. 1, 1948. 80 B873

24878 BEDFORD, J. E. What's ahead for 1949? Pacific Coast Nurseryman 7(12): 9. Dec. 1948. 80 P116

24879 BENTLEY, G. M. List of Tennessee certified nurseries, collectors of native shrubs, greenhouses, strawberry plant growers and bulb growers, 1948/49. Tenn. Dept. Agr. Div. Insect and Plant Dis. Control. B. 102, 30 p. 1949. 423 T25

24880 BILES, R. E. The complete book of garden magic. New York, Tudor Pub. Co., 1948. 334 p. 90.3 B49

24881 BIRCKEL, L. Le jardin familial. Rustica 22: 24. Jan. 9, 1949. 14 R92

24882 BØGH, H. On the right of ownership of varieties and rootstocks. (In Danish.) Tidsskr. for Landøkonomi 1948: 517-527. Nov. 1948. 11 T43

24883 BRAMHALL, B. D. Is heating with gas harmful to plant life. Northwest Gard. & Homes 16(11): 20. Jan. 1949. 80 N813

24884 BROOKS, F. A. In citrus orchards are wind machines effective? Fruit & Veg. Rev. 9(10): 16-17. Jan. 1949. 80 C1224

24885 CASPARI, F. Fruchtbare garten; naturgemässe gartenpraxis. Seebruck am Chiemsee, Heering, 1948. 352 p. 90 C272

24886 CAVALES, C. V. How to produce more food. Agr.-Com.-Indus. Life 10(11): 9, 28. Nov. 1948. 25 Ag8

Planting fruit trees and gardening hints.

24887 CHRISTIANSEN, J. Object and practical form of school gardens. (In Danish.) Haven 49: 22-23. Feb. 1949. 80 H29

24888 COURSHÉE, R. J. Wind machines to combat frost. Grower 31: 111-112. Jan. 15, 1949. 286.83 M34

24889 DAKERS, J. S. The greenhouse in winter. Amateur Gard. 65(3370): 10. Dec. 14, 1948. 80 Am13

24890 DERMINE, E. Bien tailler, c'est d'abord observer et comprendre. B. Hort. (n. s.) 3: 365-366, 377. Dec. 1, 1948. 80 B873

24891 DRAGE, C. M. Colorado 4-H horticultural champions. Green Thumb 6: 31. Jan. 1949. 80 G82

24892 EDWARDS, K. B. Hydroponically speaking, advances in sand and aggregate culture. Fruit-Grower 106: 517-518. Oct. 21, 1948. 80 F941



- 24893 FLETCHER, H. L. V. On being a no-gardener. *My Gard.* 38: 65-69. Jan. 1949. 80 M995
- 24894 FLOOR, J. Plan for testing rootstocks. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 710-712. Nov. 1948. 86 N384
- 24895 FOR WHICH crops is breeding work justified and urgent and which is the best way to do it. (In Dutch.) Inst. v. de Veredeling van Tuinbouwgewassen. Meded. 8: 8-41. July 1948. 86 W12  
English summary.  
I, Introduction by O. Banga; II, Vegetable crops, by R. Zwaan; III, Fruit, by I. Rietsema.
- 24896 FREE, M. Cutting aftermath: sand vs. vermiculite: results, but no conclusions. *Home Gard.* 12(2): 16-17. Aug. 1948. 80 H756
- 24897 FREW, S. Production of flower and vegetable seeds on the Wairau Plains of Marlborough. *New Zeal. J. Agr.* 77: 324-327, 329-334. Oct. 1948. 23 N48J
- 24898 GILBERT, C. C. Success without soil; how to grow plants by hydroponics. San Diego, Calif., Chapman-Gilbert Co., 1948. 109 p. 90.15 G37
- 24899 GILLESPIE, N. Pacific Coast gardening guide. Garden City, Doubleday, 1949. 306 p. 96 G41
- 24900 GÖDDANICH, G. When the thermometer goes below zero. (In Italian.) *Gior. di Agr.* 59: 19-20. Jan. 16, 1949. 16 It1G  
Damage to fruit trees.
- 24901 GUBA, N. Ein wohngarten. *Gart.-Z. Illus. Flora* 71: 173-174. Dec. 1948. 80 G1991
- 24902 HANSEN, H. F. Test gardens. (In Danish.) *Haven* 49: 20-21. Feb. 1949. 80 H29  
For culture of vegetable and flower seeds.
- 24903 HARRIS, J. B. Laying out the farm garden. *So. Austral. Dept. Agr. J.* 52: 204-208. (To be cont.) Nov. 1948. 23 So84
- 24904 HARSHBARGER, G. There's a way to make gardening easy. *Household* 49(1): 58-60. Jan. 1949. 321.8 H813
- 24905 HASTINGS, W. R. New All-America awards. *Gard. Gossip* 24: 6, 16-17. Jan. 1949. 80 G1625  
Vegetables and flowers.
- 24906 HAWORTH-BOOTH, M. Frost-control in the garden. *Country Life* [London] 105: 25. Jan. 7, 1949. 80 C83
- 24907 HENDERSON, M. Card index your garden. *My Gard.* 38: 37-38. Jan. 1949. 80 M995
- 24908 HORSFALL, F., JR. Frost control in orchards. *Va. Fruit* 37: 152-161. Jan. 1949. 81 B81B
- 24909 HUDSON, J. P. Latin plant names are important to the amateur gardener. *New Zeal. J. Agr.* 77: 407-409. Oct. 1948. 23 N48J
- 24910 KERN, C. E., JR. Nursery machinery and tools. *Amer. Nurseryman* 89(2): 9-10, 65-66. Jan. 15, 1949. 80 Am371
- 24911 KIENLI, W. Die gehölze der schweizerischen flora und des schweizerischen obstbaues. Münsingen, Verband Deutschschweizerischer Gartenbauvereine, 1948. 404 p. 459.6 K54
- 24912 KOOPMAN, C. Calculation of costs in breeding work. (In Dutch.) Inst. v. de Veredeling van Tuinbouwgewassen. Meded. 8: 42-56. July 1948. 86 W12  
English summary.
- 24913 KRISTENSEN, H. R. Breeding of disease free plants and health control of garden plants. (In Danish.) *Gart. Tid.* 65(1): 7-8. Jan. 5, 1949. 80 G192
- 24914 LEMMON, R. S. Let's face it, bad soil and good plants don't mix. *Home Gard.* 13(2): 43-45. Feb. 1949. 80 H756
- 24915 LÜTHI, E. Die neuordnung unserer baumbestände. *Schweiz. Z. f. Obst- u. Weinbau* 57: 447-453. Dec. 18, 1948. 80 Sch9
- 24916 MACSELF, A. J. The amateur's greenhouse. Rev. and enl. London, Collingridge, 1948. 302 p. 90.13 M242
- 24917 MARRIAGE, MRS. G. R. Gardeners in the making. *Gard. Club Amer. B.* (ser. 11) 12: 66-67. Jan. 1949. 90.32 G16
- 24918 MERTZ, E. Nursery production; more training needed to meet predicted 100 million dollar market. *Pacific Coast Nurseryman* 7(12): 10, 32. Dec. 1948. 80 P116
- 24919 MIYAZAKI-KEN, JAPAN. AGRICULTURAL EXPERIMENT STATION. Work report for 1939-45; horticulture. (In Japanese.) Miyazaki, 1947. 74 p. 107.6 M69W
- 24920 MOTLEY, M. C., JR. The rest period of certain horticultural plants. *Va. Fruit* 37: 69-74. Jan. 1949. 81 V81B
- 24921 MURDOCK, R. Some famous gardens of the East. N. & S. Dak. Hort. 21: 170. Dec. 1948. 81 N817
- 24922 OLBRICH, A. Handbuch der baumschulen. Ed. 2. Hannover, Schaper, 1948. 295 p. 90.21 O11
- 24923 PERRY, M. H. So, you want to plan your garden. London, Pearson, 1947. 127 p. 98 P42
- 24924 QUARRELL, C. P. Strip cropping. 2. Fruit, Flower & Veg. Trades' J. 94: 886. Dec. 25, 1948. 80 F946
- 24925 REENEN, R. M. VAN. Legal measures in horticulture. (In Dutch.) *Groenten en Fruit* 4: 408-409. Jan. 6, 1949. 80 G89
- 24926 RILEY, G. E. Vermiculite. *Amer. Home* 41(3): 107-108. Feb. 1949. 80 Am313
- 24927 ROCKWELL, F. F. How to start the slow, the small, the difficult seeds indoors. *Home Gard.* 13(2): 72-75. Feb. 1949. 80 H756
- 24928 ROCKWELL, F. F. Seed sowing without hocus-pocus. *Home Gard.* 13: 69-70. Jan. 1949. 80 H756
- 24929 ROWNTREE, L. America's public gardens: Tilden Regional Park, California. *Gard. Chron. Amer.* 53: 18-20. Jan. 1949. 80 G1632
- 24930 SADLER, G. Garden hygiene during the winter months. *Pop. Gard.* 50: 400. Dec. 18, 1948. 80 G1622
- 24931 SHEWELL-COOPER, W. E. A gardener's resolutions. *Field* 193: 23. Jan. 1, 1949. 10 F45
- 24932 SHEWELL-COOPER, W. E. The gardeners' standby. London, Gifford, 1947. 344 p. 90.02 Sh5
- 24933 SHEWELL-COOPER, W. E. Questions and answers; some of the things people ask a gardener. *Field* 193: 51. Jan. 8, 1949. 10 F45
- 24934 SHIPPY, B. L. Winter gardening is so easy with these greenhouse gadgets for women. *Flower Grower* 36: 42-43, 66-67. Jan. 1949. 80 M72
- 24935 SOUTHWELL, V. G. Vermiculite, material of many uses. *Gard. Chron. Amer.* 53: 33. Feb. 1949. 80 G1632
- 24936 STLUKA, E. How to have an all-round garden no bigger than a man's hand. *Home Gard.* 13(2): 57-60. Feb. 1949. 80 H756
- 24937 TAYLOR, N., ed. Taylor's encyclopedia of gardening, horticulture and landscape design. Ed. 2, rev. and enl., of the Garden dictionary, first published in 1936. Boston, Amer. Gard. Guild, 1948. 1225 p. 90.01 T21
- 24938 TRUFFAUT, G. Comment on soigne son jardin. Ed. 12, rev. and enl. Versailles, 1948. 511 p. 90.1 T76
- 24939 VIRGINIA STATE HORTICULTURAL SOCIETY. Proceedings, fifty-third annual meeting held at Roanoke, Virginia, December 15, 16, 17, 1948. Staunton, 1949. 248 p. 81 V81B
- 24940 VIVEROS CASTILLA. Establecimiento de arboricultura. Madrid, 1948? 32 p. 90.21 V83
- 24941 WILDE, J. DE. Phenological and climatological observations in glasshouses. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 729-742. Nov. 1948. 86 N384  
English summary.
- 24942 WILSON, F. C. The case of seedlings. *Gard. Chron. Amer.* 53: 39, 41. Feb. 1949. 80 G1632
- 24943 WILSON, F. C. How to germinate seeds. *Gard. Chron. Amer.* 53: 10-11. Jan. 1949. 80 G1632
- 24944 WILSON, M. M. Notes from a Scottish garden. *Pop. Gard.* 50: 379. Dec. 4, 1948. 80 G1622
- 24945 WRIGHT, P. H. Hardiness among plants. *Gard. Chron. Amer.* 53: 48-50. Feb. 1949. 80 G1632
- 24946 WRIGHT, R. Good gardening is good living. House & Gard. [Greenwich, Conn.] 95(3): 84. Mar. 1949. 80 H81
- 24947 YOUNG, F. D. Notes on how to use a fruit thermometer. *Calif. Citrog.* 34: 99. Jan. 1949. 80 C125
- 24948 YOUNG, W. F., SR., and others. Discussion of orchard heating. *Va. Fruit* 37: 162-170. Jan. 1949. 81 V81B  
L. Ballenberg, J. K. Robinson, and J. F. Waller, joint authors.

## Fruits--General

- 24949 AZZAROLI, F. Planting of grapes and fruit trees. (In Italian.) *Agr. Romagna* 21: 2. Nov. 5, 1948. 16 Ag828



- 24950 BEAR, E. M. Problems of fruit trees in grass. *Grower* 30: 1094-1095. Dec. 25, 1948. 286.83 M34
- 24951 BEAR, P. K. Simple fruit growing. Ed. 3. London, Collingridge, 1948. 96 p. 93.5 B38
- 24952 BECERRA A., M. El cultivo de frutales de tierra fria en Nuevo Colon (Boyaca). *Agr. Trop.* 4(11): 11-14. Nov. 15, 1948. 26 Ag8
- 24953 BEVILACQUA, I. Fruit culture. (In Italian.) *Agr. Modenese* 4(15): 5. Oct. 31, 1948. 16 Ag8255
- 24954 BLASER, G. Praktischer obstbau. Ed. 6, rev. by A. Martin. Stuttgart, Ulmer, 1948. 145 p. 93.26 B61
- 24955 BOISJAN, J. Quels arbres planter devant un mur du Nord. *Libération Paysanne* 5(197): 6. Jan. 6, 1949. 14 L61
- Fruit varieties.
- 24956 BRUNNING, T. W. Short history of the fruit industry as it concerns the Mornington Peninsula, Victoria. *Fruit World & Mkt. Grower* 50: 7, 9. Jan. 5, 1949. 80 F948
- 24957 CATCHPOLE, N. Successful fruit planting. *Amateur Gard.* 65(3365): 15. Nov. 9, 1948. 80 Am13
- 24958 CUNY, L. Le problème de la forme dans les cultures fruitières intensives. *Jard. de France* (ser. 7) 2: 227-238. (Concl.) Nov. 1948. 86 So13
- 24959 DAVEY, M. It pays to record conditions in the orchard. *Orchardist New Zeal.* 21(8): 4-5. Dec. 6, 1948. 80 Or19
- 24960 DAVISON, J. R. Summer training of stone fruit trees on the Murrumbidgee Irrigation Area; effect on winter pruning. *Agr. Gaz. N. S. Wales* 59: 589-594. (Cont.) Nov. 1, 1948. 23 N472
- 24961 DENOZIERE. La plantation des arbres fruitiers. *Voix des Colons* 30(1484): 2. Dec. 27, 1948. 24 V85
- 24962 DESAYMARD, P. La mise à fruit des arbres fruitiers. *Acad. d'Agr. de France. Compt. Rend.* 34: 915-918. Nov. 10/17, 1948. 14 P215Bc
- Abstract of thesis.
- 24963 DEVILLERS, P. Notre production fruitière sera-t-elle décuplée par cette méthode? *J. de la France Agr.* 4: 1025, 1029. Dec. 31, 1948/Jan. 6, 1949. 14 J829
- 24964 DIONIGI, A. The genetics of grafts. (In Italian.) *Gior. di Agr.* 59: 20. Jan. 16, 1949. 16 It1G
- Fruit.
- 24965 DOTTI, F. Experimentation is a Cinderella (à propos of pruning roots in transplanting). (In Italian.) *Romagna Agr. e Zootec.* 33(6): 1. June 1948. 16 R66
- Fruit.
- 24966 DREISEITL, H. Vorschau auf die kommende frühjahrspflanzung unserer obstbäume. *Salzburg. Bauer* 4(2): 5-6. Jan. 13, 1949. 19 Sa3
- 24967 EGOROV, V. I., and NAZAR'AN, E. A. Priusadebnyi sad [The farmstead orchard]. Ed. 3, rev. and enl. Moskva, Sel'khozgiz, 1948. 166 p. 93.5 Eg7
- 24968 ELLENWOOD, C. W. Are we maintaining our orchard plantings? *Amer. Fruit Grower* 69: 15, 44. Jan. 1949. 80 G85
- 24969 EVREINOFF, V. A. L'arboriculture fruitière en Argentine. *Arbres et Fruits* 33: 3-5. Nov. 1948. 80 Ar1
- 24970 FAIVRE, M. La production fruitière en Aveyron. II. Potasse 22: 189-191. Nov. 1948. 57.8 P84
- 24971 FELIX, W. Nochmals das auspflücken als mittel zur verhinderung der alternanz. *Schweiz. Z. f. Obst- u. Weinbau* 57: 438-439. Dec. 4, 1948. 80 Sch9
- 24972 FEY, W., and WIRTH, A. G. Der spindelbusch, eine idealbaumform für den garten des selbstversorgers und für erwerbsobstpflanzungen. Ed. 7, rev. Stuttgart, Ulmer, 1948. 131 p. (Grundlagen und Fortschritte im Garten- und Weinbau. 58) 93.5 F43
- 24973 FLOOR, J. On the vegetative propagation of fruit trees. (In Dutch.) *Inst. v. de Veredeling van Tuinbouwgewassen. Meded.* 8: 72-77. July 1948. 86 W12
- English summary.
- 24974 FRASER, H. The fruit garden renovated. *Gard. illus.* 66: 13. Jan. 1949. 80 G169
- 24975 FREGOLA, C. Further—green pruning. (In Italian.) *Gior. di Agr.* 58: 342. Dec. 5, 1948. 16 It1G
- 24976 GAYFORD, G. W. Biennial bearing in fruit trees. *Victoria. Dept. Agr. J.* 46: 409-411. Sept. 1948. 23 V66J
- 24977 HARRISS, R. W. A word to the new fruit grower. *Fruit-Grower* 107: 11-12. Jan. 6, 1949. 80 F941
- 24978 HAVIS, L. Notes on pruning. *Va. Fruit* 37: 27-30. Jan. 1949. 81 V81B
- Fruit.
- 24979 HEDRICK, U. P. What's new in fruit varieties? *Amer. Fruit Grower* 69: 16. Jan. 1949. 80 G85
- 24980 HOARD, A. H. Fruit plant nurseries and fruit research stations in western Germany and the German official fruit plant certification scheme. *U. S. Off. Pub. Bd. Rpt.* 93766: 3-4. 1948. 157.8 R29
- 24981 HOCKEY, K. C. Thinning fruit crops; reasons which lie behind practice. *New Zeal. Gard.* 5: 346-348. Jan. 1, 1949. 80 N4822
- 24982 JESPERSEN, J. Vilvorde in Belgium. (In Danish.) *Gart.-Tid.* 64: 604-605. Dec. 15, 1948. 80 G192
- Fruit culture.
- 24983 JONES, C. H. Permanent grass in bush orchards. *Grower* 31: 117. Jan. 15, 1949. 286.83 M34
- 24984 JOUGAN, E. Comment élever les arbres fruitiers à tiges. *Acclimatation* 76: 20. Jan. 22, 1949. 14 Ac2
- 24985 LANGEVIN, E. L'éducation des jeunes arbres fruitiers. *Rustica* 21: 926. Dec. 26, 1948. 14 R92
- 24986 LEMAISTRE, J. L'acclimatation en Palestine de nouveaux arbres fruitiers tropicaux et subtropicaux. *Fruits d'Outre Mer* 3: 418-422. Dec. 1948. 80 F9492
- 24987 LESLIE, W. R. New hardy fruits. *Amer. Fruit Grower* 69: 18, 35. Jan. 1949. 80 G85
- 24988 MCKENZIE, W. F. Fruit culture for the amateur. London, Garden Publications, 1947. 174 p. 93.5 M19
- 24989 MANN, A. J., and KEANE, F. W. L. Five tree fruits varieties developed at Summerland promising for markets' use. *Country Life [Vernon]* 33: 31, 32. Jan. 1949. 7 C832
- 24990 MARINUCCI, M. Technique of fruit planting. III-IV. (In Italian.) *Gior. di Agr.* 58: 333, 357. Nov. 28, Dec. 19, 1948. 16 It1G
- 24991 MARTIN, K. Rettet den deutschen obstbau! *Saat u. Ernte* 2(10): 5. Oct. 1947. 18 Sa12
- 24992 MARTIN, L. Planning a small fruit garden. *Amateur Gard.* 65(3365): 14. Nov. 9, 1948. 80 Am13
- 24993 MARTIN, L. R. E. Trained fruit trees. *Amateur Gard.* 65(3367): 16. Nov. 23, 1948. 80 Am13
- 24994 MIEGE, E. L'arboriculture fruitière aux États-Unis. *Inform. Maroc.* 405: 1, 4; 407: 1, 4. (Cont.) Oct. 16, Nov. 30, 1948. 281.8 In3
- 24995 MORETTINI, A. Fruit tree culture in Algeria. (In Italian.) *Ital. Agr.* 85: 647-659. Nov. 1948. 16 It1
- 24996 NAJJAR, H. A. The ten commandments of fruit growing. (In Arabic.) *Syria. Ext. Serv. C.* 12, 24 p. Dec. 1948. 22.5 Sy8
- English summary.
- 24997 OVERHOLSER, E. L., and others. Pruning panel. *Va. Fruit* 37: 30-39. Jan. 1949. 81 V81B
- R. Lea, J. K. Robinson, and J. F. Waller, joint authors.
- Fruit.
- 24998 PALM, Der bauerliche obstgarten im winter. *Landw. Wchnbl.* 138: 395. Nov. 27, 1948. 18 L2338
- 24999 PETERSEN, E. O. Fruit in the home garden. *New Zeal. Homes & Gard.* 18(9): 12-13; (10): 12-13. Dec. 1948-Jan. 1949. 80 N4823
- 25000 PLANQUETTE. Multiplication des arbres et arbustes. *Arbres et Fruits* 33: 6-8. Nov. 1948. 80 Ar1
- 25001 PLOCK, H. Die grundlagen des obstbaues, kurzer leitfaden für landwirte, obstbauern, baumwarte sowie für den unterricht an fach- und berufsschulen. Stuttgart, Ulmer, 1947? 128 p. 93.26 P72
- 25002 PODGAJEVSKAJA, A. A. Obrezka sadov [Pruning orchards]. Krasnodar, 1947. 33 p. 93.5 P752
- 25003 RENAUD, M. Arboriculteurs pensez à vos futures plantations. *Colon Franç. de Tunisie* 58(2079): 2. Dec. 25, 1948. 24 C712
- 25004 RENAUD, M. Les chantiers-écoles de taille d'arbres fruitiers peuvent permettre à tous les producteurs d'effectuer une taille de qualité à prix réduit. *Fruits et Primeurs de l'Afrique du Nord*, Ed. Maroc. 19 (198): 16-18. Jan. 1949. 80 F9482
- Also in *Voix des Colons* 31(1486): 1. Jan. 10, 1949. 24 V85
- 25005 SCHEERER, G. Fruchttragende hecken, gehölze und bäume; ihre einführung in garten, feld und landschaft; ihre bedeutung für ernährung und gesundheit. Ed. 2. Berlin, Siebeneicher, 1947. 63 p. 459.3 Sch22



- 25006 SCHMID, G. Die obstverwertungskampagne 1948. Schweiz. Z. f. Obst- u. Weinbau 57: 411-413. Nov. 20, 1948. 80 Sch9
- 25007 SHEWELL-COOPER, W. E. Laxton lineage; what fruit-growers owe to a great hybridist. Field 192: 733. Dec. 25, 1948. 10 F45  
Fruit varieties produced by Edward A. L. Laxton.
- 25008 SHEWELL-COOPER, W. E. Renovating an orchard. Grubbing, pruning and spraying may transform neglected trees. Field 192: 671. Dec. 11, 1948. 10 F45
- 25009 THOMAS, P. H. History of the Tasmanian fruit industry. Fruit World & Mkt. Grower 50: 9, 11. Jan. 5, 1949. 80 F948
- 25010 THOMPSON, C. R. Pruning of neglected orchards. Worcestershire Agr. Chron. 17(1): 95, 97, 99. Nov. 1948. 10 W892
- 25011 TUKEY, H. B. Are you planting good nursery stock? Amer. Fruit Grower 69: 30. Jan. 1949. 80 G85
- 25012 VIDAL, J. J. Estratificación. Campo [La Paz] 2(16): 27. Aug. 1948. 9.1 C15  
Fruit seeds.
- 25013 WALKER, W. A. G. Canadian fruit industry; impressions of the Okanagan Valley, British Columbia. Fruit World & Mkt. Grower 50: 18. Jan. 5, 1949. 80 F948
- 25014 WALKER, W. F. Fruit varieties for the home and farm garden. Tasmanian J. Agr. 19: 231-233. Nov. 1948. 23 T182T
- 25015 WINKELMANN, H. Das schneiden der obstbäume und beerensträucher. Ed. 4. Stuttgart, Ulmer, 1948. 100 p. (Grundlagen und Fortschritte im Garten- und Weinbau. 69) 93.5 W72S
- 25016 WINKELMANN, H. Veredlung und veredelungsarten in der obstbaumschule und im obstbau. Ed. 3. Stuttgart, Ulmer, 1948. 74 p. (Grundlagen und Fortschritte im Garten- und Weinbau. 93.5 W72
- 25017 WRIGHT, T. J., III. Observations in orchards and packing houses by students. Va. Fruit 37: 65-69. Jan. 1949. 81 V81B
- Fruits--Citrus and Subtropical
- 25018 AUGUSTE, A. Mise en valeur de terrains médiocres par le figuier. Colon Franç. de Tunisie 59 (2080): 1-2. Jan. 1, 1949. 24 C712  
Fig culture.  
Also in Voix des Colons 31(1486): 1. Jan. 10, 1949. 24 V85
- 25019 BLONDEL, L. Les bienfaits et les méfaits de la taille en agrumiculture. Voix des Colons 30(1482): 1. Dec. 13, 1948. 24 V85
- 25020 BROWN, T. R. Growing quality fruit pays dividends. Date Growers' Inst. Rpt. (1948) 25: 27-29. 1949. 81 D26
- 25021 CASAS, C. R. Preparación de almácigos cítricos para porta-injertos. Campo y Suelo Argentino 32(386): 66-67. Dec. 1948. 9 C15
- 25022 DATE GROWERS' INSTITUTE. Report, 25, 1948. Coachella Valley, Calif., 1949. 81 D26
- 25023 DOMATO, J. El transplante a raíz desnuda y su influencia en el cultivo de los frutales cítricos en Tucuman. Ingen. Agron. 9(3): 16-28. May/June 1948. 9 In4
- 25024 DROUHIN, P. G. Le surgreffage des Clementiniers. Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc. 18: 376-377. Dec. 1948. 80 F9482
- 25025 DUNHAM, W. A. It's a date. Pasadena, Calif., 1948. 159 p. 93.43 D92
- 25026 EVREINOFF, V. A. Le bibacier. Fruits d'Outre Mer 3: 410-417. Ref. Dec. 1948. 80 F9492
- 25027 FRIEND, W. H. Citrus variety situation. Amer. Fruit Grower 69: 19, 59. Jan. 1949. 80 G85
- 25028 HILGEMAN, R. H., and FURR, J. R. How variation in soil moisture affected growth of Deglet Noor date palm offshoots. Date Growers' Inst. Rpt. (1948) 25: 24-26. 1949. 81 D26
- 25029 JACOB, K. C. A new banana for India. Indian Farming 9: 297. July 1948. 22 In283
- 25030 KEARNEY, T. H. A winter among the date palms of Tunisia. Date Growers' Inst. Rpt. (1948) 25: 18. 1949. 81 D26
- 25031 LEMAISTRE, J. La culture du palmier-dattier aux États-Unis. Fruits d'Outre Mer 3: 375-381. Nov. 1948. 80 F9492
- 25032 MENON, H. B. Cultivo de las granadillas. Hacienda 44(1): 50, 56. Jan. 1949. 6 H11  
Passiflora.
- 25033 OPPENHEIMER, H. R. Experiments with unfruitful "Clementine" mandarins in Palestine. Jewish Agency for Palestine. Agr. Res. Sta. B. 48, 63 p. Ref. May 1948. 107 Z6
- 25034 PORCELLINI, A. Kaki persimmon culture. (In Italian.) Avvenire Agr. 56: 273-274. Nov. 1948. 16 Av9
- 25035 REBOUR, H. Deux semaines au pays des dattes: problèmes hydrauliques. Fruits et Primeurs de l'Afrique du Nord, Ed. Maroc. 19(198): 3-5. Jan. 1949. 80 F9482
- 25036 REGITANO, O. Fig culture. (In Portuguese.) Soc. Rur. Brasileira: Rev. 28(338): 40-43. Nov./Dec. 1948. 9.2 B733
- 25037 SMITTER, W. The mysterious avocado. Sat. Evening Post 221(35): 30-31, 113-115. Feb. 26, 1949. 110 Sa8
- 25038 SMOYER, K. M. Can you afford to grow avocados? (Sum.) Calif. Citrog. 34: 172-174. Feb. 1949. 80 C125
- 25039 STONE, R. C. Desert gold; dates, food fruit of ancient Oriental man, are now a great crop in California, where toil of pollination must be done as in Arabia—by hand. Frontiers 13: 90-91. Feb. 1949. 410 F92
- 25040 TAI, E. A. Top-working citrus trees. Jamaica. Dept. Agr. Ext. C. 11, 9 p. Apr. 1948. 275.249 J22
- 25041 TEAGUE, C. P. Avocados for replacing unproductive citrus trees? Calif. Citrog. 34: 145, 176. Feb. 1949. 80 C125
- 25042 VAN DER MERWE, A. J. Absorption of phosphorus by citrus trees. Farming So. Africa 23: 669-674. Oct. 1948. 24 So842
- 25043 WHITE, F. A. Tree test plots in Santa Barbara County. Calif. Citrog. 34: 130-131. Jan. 1949. 80 C125  
For avocados.
- Fruits--Deciduous
- 25044 BARTLETT, F. A. What was the matter with last year's apples? Horticulture 27: 14. Jan. 1949. 80 H787  
Effects of weather.
- 25045 BARTON, G. Glasshouse fruit; the question of peach culture. Fruit-Grower 106: 819-820. Dec. 30, 1948. 86 F941
- 25046 BERNDT, W., and DORNER, F. Zwetschen- und pflaumenanbau. Ed. 5, rev. Stuttgart, Ulmer, 1948. 72 p. (Grundlagen und Fortschritte im Garten- und Weinbau. 72) 93.37 B45
- 25047 CORSER, J. L. Observations on dessert plums. Worcestershire Agr. Chron. 17(1): 47. Nov. 1948. 10 W892  
Varieties.
- 25048 DENMAN, T. E. Peach varieties for the West Cross Timbers. Tex. Agr. Expt. Sta. Prog. Rpt. 1143, 2 p. Dec. 31, 1948. 100 T31P
- 25049 GARNER, R. J. Plum rootstocks. Worcester-shire Agr. Chron. 17(1): 53, 55, 57, 59, 61, 63, 65, 67, 69, 71. Nov. 1948. 10 W892
- 25050 GUZZINI, D. Varieties of prize peaches: "S. Anna Balducci." (In Italian.) Gior. di Agr. 58: 341. Dec. 5, 1948. 16 It1G
- 25051 HABRAN, R. La poire Madame Verte. B. Hort. (n. s.) 3: 372-373. Dec. 1, 1948. 80 B873
- 25052 HÜLSMANN, B. Die gegenseitige beeinflussung von unterlage und edelreis bei den hauptobstarten in der baumschule. Züchter 19(1/3): 14-59. Ref. 1948. 442.8 Z8  
Research carried on at the Institut für Gärtnerischen Pflanzenbau der Universität Berlin.
- 25053 HUME, A. P. Pruning young fruit trees. Amateur Gard. 65(3365): 14-15. Nov. 9, 1948. 80 Am13
- 25054 IGNATIUS, J. G. W., and WIT, W. DE. Development of production of kernel and stone fruit. (In Dutch) Netherlands. Dir. van de Tuinbouw. Meded. 11: 703-709. Nov. 1948. 86 N384
- 25055 JESPERSEN, J. New rootstocks for apples. (In Danish.) Gart.-Tid. 64: 591-593. Dec. 8, 1948. 80 G192
- 25056 JOHNSTON, S. The Elberta peach. Amer. Fruit Grower 69: 34. Jan. 1949. 80 G85
- 25057 LESLEY, J. W. Peaches for the Deep South. Flower Grower 36: 36-37, 57. Jan. 1949. 80 M72
- 25058 LOUVAIN, P. Est-il vraiment utile de tailler? Réveil Agr. 57: 373-374. Dec. 15, 1948. 14 R322



25059 MARINUCCI, M. Quantity or quality production. (In Italian.) *Glor. di Agr.* 59: 3-4. Jan. 2, 1949.

16 It1G

Apples.

25060 MASTERS, F. J. New varieties of plums. *Worcestershire Agr. Chron.* 17(1): 49, 51. Nov. 1948. 10 W892

25061 MOROCCO. SERVICE DE L'HORTICULTURE. Observations sur le comportement de différents porte-greffes de pruniers., by Cuenot, Ballot and Praloran. *Rabat?* 1947? 10 p. 93.37 M82

25062 PROMISING apple & pear varieties. *Amer. Fruit Grower* 69: 17, 54, 56. Jan. 1949. 80 G85

For the East, by W. P. Judkins; The Northwest, by L. Verner; British Columbia, by A. J. Mann and F. W. L. Kean.

25063 RIBSSKOG, H. The plant breeding work in Denmark. (In Norwegian.) *Skogbrukeren* 23: 262-263. Dec. 1, 1948. 99.8 Sk54

Fruit trees.

25064 SAMISCH, R. M. Plum growing in the Jewish settlements of Palestine. *Jewish Agency for Palestine. Agr. Res. Sta. B.* 50, 82 p. Ref. May 1948. 107 Z6

25065 SHEWELL-COOPER, W. E. How apple root stocks are propagated. *Smallholder* 80(2022): 13. Dec. 31, 1948. 10 Sm1

25066 SHEWELL-COOPER, W. E. It's the roots which regulate fruit tree growth. *Smallholder* 80(2021): 10. Dec. 24, 1948. 10 Sm1

Types of apple stock.

25067 SHEWELL-COOPER, W. E. What are the best root stocks for pears and plums? *Smallholder* 80(2023): 8. Jan. 7, 1949. 10 Sm1

25068 SIMONNEAU, P. Les arbres fruitiers à feuilles caduques dans les plaines irriguées d'Oranie. *Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc.* 18: 378-383. Dec. 1948. 80 F9482

25069 SNYDER, J. C., and LUCE, W. A. Pruning apple and pear trees. *Wash. State Col. Ext. B.* 381, 52 p. Jan. 1949. 275.29 W27P

25070 SOFT tree fruits for Pacific Coast. *Amer. Fruit Grower* 69: 23, 42-43, 48-49. Jan. 1949. 80 G85

For California, by C. O. Hesse; British Columbia, by A. J. Mann and F. W. L. Keane.

Peaches, apricots, nectarines, and cherries.

25071 SOUSA, J. S. I. DE. Grafting of the peach tree. (In Portuguese.) *Chacaras e Quintais* 78: 593-594. Nov. 15, 1948. 9.2 C34

25072 SOUSA, J. S. I. DE. Peach sacking. (In Portuguese.) *Chacaras e Quintais* 79: 57-58. Jan. 15, 1949. 9.2 C34

25073 STANTON, H. Winter care of peaches. *Amateur Gard.* 65(3371): 13. Dec. 21, 1948. 80 Am13

25074 SWERTS, E. New pear Packham's Triumph. (In Flemish.) *Cult. en Handel* 14: 777. Dec. 1948. 80 C892

25075 TAWSE, W. J. New production methods. *Canad. Grower* 72: 4-5. Jan. 10, 1949. 80 C16

Growing apples.

25076 THOMAS, P. H., and RAPHAEL, T. D. Apple rootstock trials. *Tasmanian J. Agr.* 19: 197-207. Ref. Nov. 1948. 23 T182T

25077 TRUJILLO, P. El nisperal como seto vivo o valla elástica. *Ganadería [Madrid]* 6: 376-379. July 1948. 49 G15

25078 WEINBERGER, J. H. Recent peach introductions. *Amer. Fruit Grower* 69: 20, 46-47. Jan. 1949. 80 G85

25079 ZANOTTI, L. Italian peach culture in its technical aspects. (In Italian.) *Ital. Agr.* 85: 636-643. Nov. 1948. 16 It1

#### Fruits--Small

25080 ALLEN, L. C. Plains fruit growing is different. *Prog. Farmer, Tex. Ed.* 64: 15. Jan. 1949. 6 T311

Chiefly grape growing.

25081 AMERICAN CRANBERRY GROWERS' ASSOCIATION. Proceedings of the seventy-ninth annual convention, Pemberton, New Jersey, August 26, 1948. n. p., 1948. 25 p. 81 Am35C.

25082 BANGA, O. De veredeling van de aardbei in de Verenigde Staten van Amerika [Strawberry breeding in the U. S. of America]. *Inst. v. de Veredeling van Tuinbouwgewassen. Meded.* 7, 70 p. Dec. 1947. 86 W12

25083 BAUER, W. Kleine rebsortenkunde. *Österr. Weinztg.* 4: 13. (Cont.) Jan. 8, 1949. 390.8 Os7

25084 BERGMAN, H. F. Effect of last winter's flooding in New Jersey on the 1948 crop. *Amer. Cranberry Growers' Assoc. Proc.* 79: 9-10, 12-15. 1948. 81 Am35C

25085 BITTNER, C. S. Profitable red raspberry production in Pennsylvania; culture--insect and disease control. *Pa. State Col. Agr. Ext. C.* 319, 13 p. June 1948. 275.29 P38C

25086 BLIN, H. Production de fraises par culture forcée et hâtée. *Acclimatation* 75: 263. Dec. 11, 1948. 14 Ac2

25087 BOSTER, D. O. Slightly larger cranberry crop indicated for 1948. *Amer. Cranberry Growers' Assoc. Proc.* 79: 7-8. 1948. 81 Am35C

25088 CANADA. DEPT. OF AGRICULTURE. The cranberry. *Canada. Dept. Agr. Farmers' B.* 151, 35 p. Sept. 1948. 7 C16F

Cranberry culture, by E. L. Eaton; Cranberry diseases, by K. A. Harrison; Cranberry insects, by C. W. Maxwell and A. D. Pickett.

25089 CONGRÈS INTERNATIONAL DU RAISIN, DU JUS DE RAISIN ET DU VIN, 3, ISTAMBUL, 1947. *Comptes rendus des rapports, débats et motions.* Alençon (Orne), France, Impr. Alençonnaise, 1948? 77 p. 95.09 C762

25090 CRUZ LLANOS, R. DE LA. Lunahuaná: zona vitícola. *Agronomía [Lima]* 3(55): 49-56. 1948. 9.8 Ag83

25091 DALMASSO, G. The climatic milieu of the grape. II. (In Italian.) *Glor. di Agr.* 58: 365. Dec. 26, 1948. 16 It1G

25092 DICKEY, R. D. Blackberry culture in Florida. *Fla. Agr. Sta. Press B.* 657, 4 p. Dec. 1948. 100 F66S

25093 DOEHLERT, C. A., and BOSTER, D. O. New Jersey's cranberry production per acre. *Amer. Cranberry Growers' Assoc. Proc.* 79: 5-7. 1948. 81 Am35C

25094 ELLENWOOD, C. W. Does this make you strawberry hungry? *Ohio Farmer* 203(2): 15. Jan. 15, 1949. 6 Oh3

Culture and varieties.

25095 FOLLENS, V. Ozark vineyards. *Farm Q.* 3(4): 25-30, 90, 92, 94-96, 98-100. Winter 1948. 6 F22995

25096 FRANCE, R. A. Pruning and cleaning vines. *Amateur Gard.* 65(3370): 14. Dec. 14, 1948. 80 Am13

25097 FRANKLIN, H. J., and CROSS, C. E. Weather in relation to cranberry production and condition. *Mass. Agr. Expt. Sta. B.* 450, 15 p. July 1948. 100 M38H

25098 GHETTI, G. Classic modern grape stocks. (In Italian.) *Agr. Modenese* 4(19): 6-7. Dec. 15/31, 1948. 16 Ag8255

25099 GHETTI, G. The classic vine stocks of Modena. (In Italian.) *Campagnolo* 12: 1-2. Dec. 1948. 16 C15

25100 HAINES, W. S. Consideration of a program for research on "what makes cranberries grow?" *Amer. Cranberry Growers' Assoc. Proc.* 79: 15-17. 1948. 81 Am35C

25101 HALL, C. J. The Chippewa Indians had a name for cranberries. *Cranberries* 13(9): 6-8, 12. Jan. 1949. 80 C852

25102 HALL, C. J. Indians and English use them much. *Cranberries* 13(8): 6-8. Dec. 1948. 80 C852

25103 HESSE, C. O. California has five new [grape] varieties. *Amer. Fruit Grower* 69: 21. Jan. 1949. 80 G85

25104 HUGHES, H. M. Keeping blackberries in check. *Amateur Gard.* 65(3370): 14. Dec. 14, 1948. 80 Am13

25105 JONES, C. H. New strawberry varieties: work at Kingsley on the Cambridge seedlings. *Fruit-Grower* 106: 520. Oct. 21, 1948. 80 F941

25106 LARSEN, A. F. Osmola and other black currant varieties. (In Danish.) *Gart.-Tid.* 64: 595-597. Dec. 8, 1948. 80 G192

25107 LIGER, P. L'encépagement des vignobles à raisins de table en Algérie. *Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc.* 18: 384-387. Dec. 1948. 80 F9482

25108 LINDEN, L. VAN DER. Strawberry fruit set with the help of growth substances. (In Flemish.) *Tuinbouwberichten* 12: 172-173. Nov. 15, 1948. 80 T817



25109 MALAN, A. H. Uneconomic vines and gaps in the vineyard. *Farming So. Africa* 23: 697-702. Oct. 1948. 24 So842

Includes selective propagation.

25110 MALFATTO, P. Practical advice for the vintage. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 173-174. Sept. 30, 1948. 16 C72

25111 MOROCCO. SERVICE DE L'HORTICULTURE. Relations entre le longueur et le comportement de boutures de vigne. Rabat? 1947? 4 p. 95.4 M82

25112 MOS, D. DE. Currants under glass. (In Dutch.) *Groenten en Fruit* 4: 410-411. Jan. 6, 1949. 80 G89

25113 MÖSE, G. Der erfolgreiche beerenobstanbau. Zella Rhön, Hofmann, 1947. 32 p. 94 M852

25114 OBERLE, G. D. Concord [grape] still leads in East. *Amer. Fruit Grower* 69: 21, 45. Jan. 1949. 80 G85

25115 OBERLE, G. D. They can be grown in the northeast: new and hardy grapes. *Horticulture* 27: 12, 31. Jan. 1949. 80 H787

25116 PEYRONNET, R. Le développement des hybrides en Algérie. VI-VII. *Rev. Agr. de l'Afrique du Nord* 46: 617-619, 630-632. Dec. 10-17, 1948. 80 R326

25117 PIROVANO, A. Table grapes. (In Italian.) *Ital. Agr.* 85: 683-689. Dec. 1948. 16 It1

25118 RATH. Unser weinstock im jahre 1948. *Gart.-Z. Illus. Flora* 71: 183-185. Dec. 1948. 80 G1991

25119 RIVEROS, J. E. Nueva orientación de la viticultura en San Juan. *Chacra* 19(218): 54, 114. Dec. 1948. 9 C34

25120 ROBERT, J. Le greffage de la vigne. *Réveil Agr.* 58: 17-18. Jan. 15, 1949. 14 R322

25121 RUFFALDI, G. B. An abnormal summer and grapes. (In Italian.) *Romagna Agr. e Zootec.* 33(11): 4. Nov. 1948. 16 R66

25122 SHEWELL-COOPER, W. E. The pruning of the soft fruits. *Smallholder* 80(2020): 13. Dec. 17, 1948. 10 Sml

Currants, blackberries, raspberries, and gooseberries.

25123 SLATE, G. L. Small fruits of promise. *Amer. Fruit Grower* 69: 22, 55-56. Jan. 1949. 80 G85

25124 STATUTI, M. Seedling or grafted grapes? (In Italian.) *Campagnolo* (1948) 11: 2-3. Nov. 1, 1948. 16 C15

25125 STROMER, G. Fruit growing for pleasure and profit. *Amer. Poultry J.* 80(1): 68. Jan. 1949. 47.8 Am32

Strawberries and raspberries.

25126 SWARTWOUT, H. G. Growing gooseberries and currants. *Mo. Agr. Expt. Sta. C.* 327, 12 p. Apr. 1948. 100 M693

25127 TARRAGO, E. La morera blanca; instrucciones para su cultivo. *Rev. Mens. B. A. P.* 31(369): 74, 76-80. Aug. 1948. 9 R326

25128 TONINI, G. The poplar plantings. (In Italian.) *Romagna Agr. e Zootec.* 33(3): 1. Mar. 1948. 16 R66

In grape culture.

25129 WATT, J. H. The growing of cape gooseberries [*Physalis peruviana*]. *New Zeal. J. Agr.* 77: 377-381. Oct. 1948. 23 N48J

25130 WHITEHEAD, S. B. Points to remember when planting raspberries. *Pop. Gard.* 50: 420. Jan. 1, 1949. 80 G1622

25131 WINKLER, A. J. Why the late maturing of table grapes in 1946-48? Suggested procedure to improve quality in 1949. *Blue Anchor* 26(1): 10-11, 36. Feb. 1949. 286.83 B62

#### Nuts

25132 BLACKMON, G. H. Pecans for the Southeast. *Amer. Fruit Grower* 69: 24, 51. Jan. 1949. 80 G85

25133 BRISON, F. R. Texas varieties. *Amer. Fruit Grower* 69: 24, 50. Jan. 1949. 80 G85

Pecans.

25134 CLERÍCI, R. E. Cultivo del nogal en la provincia de Catamarca. *Campo y Suelo Argentino* 32(386): 64-65. Dec. 1948. 9 C15

25135 HAUVILLE, A. Technique culturale de l'amandier. *Soc. des Agr. d'Algérie. B.* 91: 146-151. June 1948. 24 S01

25136 LEMMON, R. S. The best loved trees of America. *Home Gard.* 13: 47-54. (Cont.) Jan. 1949. 80 H756

Pecan and blackwalnut.

25137 MCDANIEL, J. C. Chestnuts, black walnuts and pecans. *Amer. Fruit Grower* 69: 24, 37. Jan. 1949. 80 G85

25138 ØSTERGAARD, J. *Corylus colurna* L. (In Danish.) *Gart.-Tid.* 64: 636-638. Dec. 29, 1948. 80 G192

25139 ULM, A. The Chinese chestnut makes good. *Amer. Forests* 54: 491, 518, 520, 522. Nov. 1948. 99.8 F762

25140 VIDAL OLIVER, P. A. El almendral mallorquín. *Balearic Isl. Diputación Prov. B. de Agr.* 1948(49): 9-10. Oct. 1948. 15 B19

#### Shade Trees and Ornamental Plants

25141 ABBOTT, D. The garden saints and I. *Calif. Gard.* 39(4): 5, 11. Winter 1948. 80 C127

25142 AKERS, J. New species from Peru [*Peruvocereus albisatus*]. *Cactus & Succulent J.* 20: 184-186. Dec. 1948. 451 C11

25143 ALLEN, M. For sick-room cheer arrange flowers to please the patient. *Home Gard.* 13(2): 27-33. Feb. 1949. 80 H756

25144 ALLWOOD, M. C. Carnations and all Dianthus. Ed. 3. Hayward's Heath, Sussex, Allwood Bros., 1948? 379 p. 96.517 A154

25145 AMSLER, M. Trumpet lilies [*Lilium leucanthum chloraster*]. *Gard. Illus.* 66: 11, 16. Jan. 1949. 80 G169

25146 ANDERSON, A. W. *Cotoneaster conspicua*. *New Zeal. Gard.* 5: 310-312. Dec. 1, 1948. 80 N4822

25147 ANDERSON, A. W. The herbaceous border; the fascination of colour. *New Zeal. Gard.* 5: 341-344. Jan. 1, 1949. 80 N4822

25148 ANDERSON, A. W. The weeping willow tree. *Gard. Chron. Amer.* 53: 34-35. Feb. 1949. 80 G1632

25149 ANDERSON, D. M. Why isn't bleeding-heart [*Dicentra spectabilis*] the Valentine flower? *Amer. Home* 41(3): 25, 74, 76, 109. Feb. 1949. 80 Am313

25150 ANDERSON, E. B. "Florealp," *Champey*, Switzerland. *Alpine Gard. Soc. Q. B.* 16: 282-283. Dec. 1948. 84 AL6

25151 ARMSTRONG, D. Canada, land of the maple and 134 other Canadian trees. *Forest & Outdoors* 45(2): 13. Feb. 1949. 99.8 C16

25152 ARNOLD, R. E. *Oncidium cebolleta*. *Orchid Rev.* 57: 6-8. Jan. 1949. 80 Or15

25153 ARNOLD-FORSTER, W. The new hybrid *Camellias*. *Arboretum B.* 11: 9-12. Winter 1948. 451 Ar1

25154 ATHERTON, L. C. Not just a *Camellia*. *Calif. Gard.* 39(4): 4. Winter 1948. 80 C127

25155 AUDET, L. P. Les artistes de l'automne qui se préparent à bien passer l'hiver. *Paysana* 22(10/11): 10-11. Dec. 1948/Jan. 1949. 7 P29

Maple varieties.

25156 BABB, MRS. E. M. Golden aster [*Chrysopsis*] in Maine. *Horticulture* 27: 27. Jan. 1949. 80 H787

25157 BAILEY, R. Border plants at the awkward age. *Home Gard.* 12(2): 13-15. Aug. 1948. 80 H756

25158 BARNES, A. T. Red ribbon Dahlias. *Amateur Gard.* 65(3373): 11. Jan. 4, 1949. 80 Am13

25159 BARNES, MRS. W. Give the beds a new edging. *Gard. Club Amer. B. (ser. 11)* 12: 85-87. Jan. 1949. 90.32 G16

25160 BARRAUD, E. M. My tame wild flowers. *My Gard.* 37: 559-562. Dec. 1948. 80 M995

25161 BARTON, G. Attar of roses. *Gard. Chron. Amer.* 53: 35-36. Feb. 1949. 80 G1632

25162 BARTON, G. Commercial rose-growing: a mistake some make. *Smallholder* 80(2019): 9. Dec. 10, 1948. 10 Sml

25163 BARTON, G. Two methods of rose propagation. *Grower* 31: 67. Jan. 8, 1949. 286.83 M34

25164 BAWDEN, H. E. *Gentiana loderi*. *Alpine Gard. Soc. Q. B.* 16: 328-329. Dec. 1948. 84 AL6

25165 BEMBOWER, W. Lawns for Hawaii. *Hawaii. U. Agr. Ext. C.* 255, 8 p. Oct. 1948. 275.29 H412Ac

25166 BERGER, A. S. Plan the shadows in your garden. *House & Gard. [Greenwich, Conn.]* 95(3): 118, 152-153. Mar. 1949. 80 H81

25167 BLACKBURN, B. Plant for permanence, the Korean box [*Buxus sempervirens*]. *Flower Grower* 36: 26, 28. Jan. 1949. 80 M72



- 25168 BLACKBURN, B. Plant for permanence, the lilac *Daphne*. *Flower Grower* 36: 108, 110. Feb. 1949. 80 M72
- 25169 BOBBITT, R. T. Globe-flowers [*Trollius*]. *Flower Grower* 36: 144-145. Feb. 1949. 80 M72
- 25170 BÖRGESSEN, F. A note on *Kolkwitzia amabilis* in Denmark. *Roy. Hort. Soc. J.* 73: 422. Dec. 1948. 84 L84J
- 25171 BOUILLENNE, R., and BOUILLENNE-WAL-RAND, M. Le bouturage des houx au moyen des hormones d'application. *B. Hort. (n. s.)* 3: 358-364. Dec. 1, 1948. 80 B873
- 25172 BOWDEN, A. J. Method of growing profitable carnations in the Near South. *South. Florist & Nurseryman* 61(45): 11-13, 62-64. Feb. 4, 1949. 80 So86
- 25173 BOWEN, N. Consider both sides. *Home Gard.* 13: 36-38. Jan. 1949. 80 H756  
Flower arrangement.
- 25174 BOWERS, D. Santa Barbara freeway planting. *Arborist's News* 13: 126-128. Dec. 1948. 99.8 Ar14
- 25175 BOWLES, E. L. Good seed and good timing make the best pansies. *Home Gard.* 12(2): 26-28. Aug. 1948. 80 H756
- 25176 BROCKIE, W. B. New Zealand conifers. *New Zeal. Gard.* 5: 260-263. Dec. 1, 1948. 80 N4822
- 25177 BROEN, M. El narciso, flor rústica. *Chacra* 19(219): 44-45. Jan. 1949. 9 C34
- 25178 BROEN, M. Formación de cespices con mezclas o con especies únicas. *Chacra* 19(218): 58-59, 113. Dec. 1948. 9 C34
- 25179 BROWN, W. Tuberous begonias, a complete guide for amateur and specialist. New York, Barrows, 1948. 128 p. 96.511 B81
- 25180 BURGESS, C. H. Living fence. *Farm Q.* 3 (4): 50-53. Winter 1948. 6 F22995  
Multiflora rose.
- 25181 BURNE, W. R. Early flowering *Chrysanthemums*. *North. Gard.* 2: 587-588. Dec. 1948. 80 N816
- 25182 BURTON, G. W. Carpet for farm lawns; carpet grass is the answer to farm lawn needs, is not a pasture menace like centipede grass. *South. Seedsman* 12(2): 15, 50. Feb. 1949. 61.8 So8
- 25183 BURTON, G. W. Centipede lawns from seed! *South. Seedsman* 12: 15, 28. Jan. 1949. 61.8 So8
- 25184 BUTLER, S. S. Daffodils in upper South Carolina. *Natl. Hort. Mag.* 27: 124-134. July 1948. 80 N216
- 25185 BUTTERFIELD, H. M. Azalea culture and some of the problems. *Begonian* 16: 8-10. Jan. 1949. 96.511 B39
- 25186 BUTTERFIELD, H. M. Rose culture in California. *Calif. Agr. Col. Ext. C.* 148, 39 p. Nov. 1948. 975.29 C12C
- 25187 BUXTON, B. R. Billbergias for house plants. *Horticulture* 27: 26. Jan. 1949. 80 H787
- 25188 BUXTON, B. R. A bright cousin of the pineapple. *Flower Grower* 36: 129. Feb. 1949. 80 M72  
*Billbergia pyramidalis*.
- 25189 CADWALLADER, G. R. Epiphyllums, an addition to our shade gardens. *Begonian* 16: 12-13. Jan. 1949. 96.511 B39
- 25190 CASSEBEER, F. W. Gladiolus, frilled and flounced. *House & Gard. [Greenwich, Conn.]* 95(2): 63, 129. Feb. 1949. 80 H81
- 25191 CHAPPLE, F. J. Plan the winter flower garden. *Gard. Illus.* 66: 9. Jan. 1949. 80 G169
- 25192 CHARD, A. *Saintpaulia* idiosyncrasies. *African Violet Mag.* 2(2): 10. 1948. 80 Af8
- 25193 CHEVALIER, C. *Plantes d'appartement*. I. *B. Hort. (n. s.)* 3: 367-369. Dec. 1, 1948. 80 B873
- 25194 CHIDAMIAN, C. Espalier Camellias—a photo-story. *Home Gard. Soc.* 9: 14-15. Jan. 1949. 80 H755
- 25195 CLAPP, R. Plan for a cloth house this summer. *Florists Exch.* 112(9): 21, 57. Feb. 26, 1949. 80 F666
- 25196 CLEMENTS, J. Flowers by arrangement. *My Gard.* 37: 629-632. Dec. 1948. 80 M995
- 25197 CLEMENTS, J. A New Zealand garden. *My Gard.* 38: 74-76. Jan. 1949. 80 M995
- 25198 COLE, C. A. Storing *Gladiolus* corms. *Flower Grower* 36: 67. Jan. 1949. 80 M72
- 25199 CONWAY, T. Culture of violets. *New Zeal. J. Agr.* 77: 603-604. Dec. 1948. 23 N48J
- 25200 CORNELL, R. D. Random notes on street trees. *Arborist's News* 13: 112-116. Dec. 1948. 99.8 Ar14
- 25201 CRAN, M. Garden wisdom from the writings of Marion Cran. Introduced by Leonard Gribble. London, Jenkins, 1947. 179 p. 97 C855G
- 25202 CREECH, J. L. *Philadelphus* notes. *Natl. Hort. Mag.* 27: 111-123. July 1948. 80 N216
- 25203 CRISP, E. T. Glorious *Gloxinias*. *Household* 49(1): 61-62. Jan. 1949. 321.8 H813
- 25204 CROOK, H. C. Some common Swiss alpine. *Alpine Gard. Soc. Q. B.* 16: 324-327. Dec. 1948. 84 AL6
- 25205 CRUISE, M. Fragrant vetiver. *Gard. Chron. Amer.* 53: 21. Jan. 1949. 80 G1632
- 25206 DAKERS, J. S. Autumn flowers under glass. *Amateur Gard.* 65(3365): 13. Nov. 9, 1948. 80 Am13
- 25207 DAKERS, J. S. Care of young *Cyclamen*. *Amateur Gard.* 65(3367): 15. Nov. 23, 1948. 80 Am13
- 25208 DAKERS, J. S. Fibrous-rooted *Begonias*. *Amateur Gard.* 65(3373): 13. Jan. 4, 1949. 80 Am13
- 25209 DAKERS, J. S. The gorgeous *Hippeastrum*. *Amateur Gard.* 65(3369): 11. Dec. 7, 1948. 80 Am13
- 25210 DAKERS, J. S. Preparing for the summer picture. *Homes & Gard.* 30(7): 29, 70. Jan. 1949. 318.8 Ou7  
Culture of ornamentals.
- 25211 DALZIEL, Gladioli of the future. *Amateur Gard.* 65(3369): 10. Dec. 7, 1948. 80 Am13  
Varieties.
- 25212 DAVIS, R. Manila date line. *Orchid Digest* 12: 260-261. Nov./Dec. 1948. 80 Ori72  
Native Philippine orchids.
- 25213 DEAN, D. L. Flower arrangement in Mexico. *Flower Grower* 36: 130-131, 161-163. Feb. 1949. 80 M72
- 25214 DECKER, J. S. Polyanthus and floribunda roses. (In Portuguese.) *Chacaras e Quintais* 79: 79-80. Jan. 15, 1949. 9.2 C34
- 25215 DISSEL, E. D. VAN. A remarkable tree. (In Dutch.) *Nederland. Heidemaatsch. Tijdschr.* 59: 462-463. Dec. 1948. 12 N282
- 25216 DOLSON, L. L. Star *Magnolia*. *Organic Gard.* 14(2): 15. Feb. 1949. 56.8 Or3
- 25217 DOT, P. Miscelánea de rosas. *Cult. Mod.* 30: 460-461. Dec. 1947. 15 C89
- 25218 DOTY, P. E. Camellia propagation (United States). *Arboretum B.* 11: 12-14, 31-32. Winter 1948. 451 Ar1
- 25219 DOWNER, H. E. Select your shrubs carefully; permanent plantings. *Horticulture* 27: 13. Jan. 1949. 80 H787
- 25220 DUDLEY, L. B. Dahlias, miniature and pompon. *House & Gard. [Greenwich, Conn.]* 95(2): 62, 134. Feb. 1949. 80 H81
- 25221 DUNCOMB, M. Growing the native beard-tongues [*Penstemon*]. *Home Gard.* 12(2): 72-76. Aug. 1948. 80 H756
- 25222 DURUZ, S. Flowering shrubs for small gardens. Ed. 2. London, Drummond, 1947. 162 p. 97.31 D93
- 25223 ECHERT, E. The poppies. *Gard. Chron. Amer.* 53: 8-9. Jan. 1949. 80 G1632
- 25224 EDRIDGE, T. G. Garden perfume the year round. *My Gard.* 38: 61-64. Jan. 1949. 80 M995
- 25225 ELLIOTT, C. Alpines on the ashbin. *Gard. Illus.* 66: 28. Feb. 1949. 80 G169
- 25226 ELLIOTT, C. How *Tiarella wherryi* came to England. *Nurseryman & Seedsman* 107: 1920-1922. Dec. 23, 1948. 80 N933
- 25227 ELLIOTT, D. Bearded iris. *New Zeal. Gard.* 5: 277-278. Dec. 1, 1948. 80 N4822
- 25228 ELLIOTT, D. "This is a good plant." what do these words mean? *New Zeal. Gard.* 5: 369-371. Jan. 1, 1949. 80 N4822
- 25229 ELLIOTT, D. Two beautiful *Anthuriums*. *New Zeal. Gard.* 5: 357-358. Jan. 1, 1949. 80 N4822
- 25230 ENE DE PIRO, M. Les Cistes. *Réveil Agr.* 58(2546): 4-5. Jan. 1, 1949. 14 R322
- 25231 ENGLISH, E. H. *X Iris aureonympha*, Golden Nymph. *Natl. Hort. Mag.* 27: 161-167. Oct. 1948. 80 N216
- 25232 ESSON, J. G. Camellias. *Gard. Chron. Amer.* 53: 36-37. Feb. 1949. 80 G1632
- 25233 EVANS, S. The maintenance of highway trees. *Arborist's News* 13: 116-118. Dec. 1948. 99.8 Ar14



- 25234 EVERETT, T. H. Plant portraits. Gard. Chron. Amer. 53: 12, 40-41. Jan.-Feb. 1949. 80 G1632  
Dorstenia contrajerva and Ilex altaclarensis "James G. Esson."
- 25235 EXLEY, E. Christmas rose. Gard. Club Amer. B. (ser. 11) 12: 84-85. Jan. 1949. 90.32 G16
- 25236 FEARON, E. E. The making of a garden. London, Macdonald, 1948. 383 p. 98 F31
- 25237 FERNÁNDEZ DIEZ, G. El paisaje y el arbolado. Ceres [Valladolid] 12(150): 18-19. Dec. 1, 1948. 15 C33
- 25238 FERRY, E. S. Flower compositions for the home in eastern Asia. N. Y. Bot. Gard. J. 50: 8-15. Jan. 1949. 451 N48J
- 25239 FLEMER, W., III. The propagation of Kalmia latifolia from seed. Torrey Bot. Club. B. 76: 12-16. Jan./Feb. 1949. 451 T63B
- 25240 FOLLIICK, C. A colourful garden escape; Senecio elegans has possibilities for seaside gardens. New Zeal. Gard. 5: 294-295. Dec. 1, 1948. 80 N4822
- 25241 FOSSUM, M. T. Floriculture, in top nine trades, to need trained replacements. South. Florist & Nurseryman 61(40): 11, 57-60. Dec. 31, 1948. 80 So86
- 25242 FRASER, D. M. What's wrong with our flower shows? Lacking in appeal to the gardening public. New Zeal. Gard. 5: 251-255. Dec. 1, 1948. 80 N4822
- 25243 FREE, M. Glory-bower [Clorodendrum thompsoniae]. Home Gard. 13: 15-16. Jan. 1949. 80 H756
- 25244 FREE, M. How broad is your rose horizon? Home Gard. 13(2): 46-56. Feb. 1949. 80 H756
- 25245 FREE, M. How to make a desert, with small cacti, of course. Home Gard. 13(2): 34-38. Feb. 1949. 80 H756
- 25246 FRYER, F. New roses. North. Gard. 2: 576-579. Dec. 1948. 80 N816
- 25247 GATHORNE-HARDY, R. Garden flowers from plates by Jane Loudon. London, New York, Batsford, 1948. 12 p. 96.025 G22
- 25248 GETTYS, MRS. R. E. Old Knoxville gardens. Gard. Club Amer. B. (ser. 11) 12: 52-59. Jan. 1949. 90.32 G16
- 25249 GILBERT, P. A. Cultivation of orchids. Austral. Gard. Lover 24(8): 41, 43; (9): 43, 45. (Cont.) Nov.-Dec. 1948. 80 G1615
- 25250 GLASS, A. Plants—what for? Gard. Gossip 24: 5, 17-19. Jan. 1949. 80 G1625
- 25251 GODDARD, J. H. Early-flowering Chrysanthemums. Amateur Gard. 65(3365): 12, 22. Nov. 9, 1948. 80 Am13
- 25252 GODDARD, J. H. A review of the Chrysanthemum season. Amateur Gard. 65(3370): 11. Dec. 14, 1948. 80 Am13  
Prizes in shows.
- 25253 GODDARD, J. H. Taking Chrysanthemum cuttings. Amateur Gard. 65(3367): 14-15. Nov. 23, 1948. 80 Am13
- 25254 GOODWIN, R. H. How to grow dogwood from seed. Plants & Gard. (n. s.) 4: 236-238. Winter 1948. 450 P694
- 25255 GORDON, E. T. The charm of border pinks. Amateur Gard. 65(3367): 12. Nov. 23, 1948. 80 Am13
- 25256 GORDON, E. T. Relatives of the daisy [Compositae]. Amateur Gard. 65(3370): 12. Dec. 14, 1948. 80 Am13
- 25257 GRAY, T. D. Add a dash of color to your landscaping plans. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 64: 52, 79. Jan. 1949. 6 P945
- 25258 GREEN, E. E. Cornus stolonifera flaviramea. Natl. Hort. Mag. 27: 185-186. Oct. 1948. 80 N216
- 25259 GREEN, E. E. Rose acacia. Natl. Hort. Mag. 27: 186. Oct. 1948. 80 N216
- 25260 GREIDER, G. M. It's poppy time. Home Gard. 12(2): 7-12. Aug. 1948. 80 H756
- 25261 HALL, C. A. Winter heliotrope [Petasites fragrans]. Amateur Gard. 65(3371): 8. Dec. 21, 1948. 80 Am13
- 25262 HALL, G. W. An original border for the ordinary garden. Amateur Gard. 65(3369): 12-13. Dec. 7, 1948. Am13
- 25263 HANDLEY, G. E. Dahlia growing made easy. Austral. Gard. Lover 24(8): 53, 57. Nov. 1, 1948. 80 G1615
- 25264 HANGER, F. The propagation of Camellias (England). Arboretum B. 11: 15-17, 32-33. Winter 1948 451 Ar1
- 25265 HANSELL, D. E. Your rock garden needs backbone plants. Horticulture 27: 17. Jan. 1949. 80 H787
- 25266 HARDY, E. Three uncommon wild flowers. Nature Lover 6(1): 36-37, 39. Jan. 1949. 410 N218  
Petasites, Siegesbeckia, and Saxifraga, in Great Britain.
- 25267 HARMER, S. New rose creations. Calif. Gard. 39(4): 1-2. Winter 1948. 80 C127
- 25268 HARRISON, R. E. Culture of Erythroniums. New Zeal. Gard. 5: 269-270. Dec. 1, 1948. 80 N4822
- 25269 HARSHBARGER, G. Chrysanthemum clinic. Household 49(3): 10, 90-91. Mar. 1949. 321.8 H813
- 25270 HASTINGS, W. R. The 1949 All-America Selections. Flower Grower 36: 35, 60-61. Jan. 1949. 80 M72
- 25271 HASTINGS, W. R. Three new flowers chosen by All-America selections. South. Florist & Nurseryman 61(40): 12. Dec. 31, 1948. 80 So86  
Petunia, hollyhock and morning glory.
- 25272 HAWKES, A. D. German Orchid Society [Deutsche Orchideengesellschaft]. Orchid Digest 12: 258-259. Nov./Dec. 1948. 80 Or172
- 25273 HEIGHTON, H. The oak. Nature Lover 5: 480-486. Nov. 1948. 410 N218
- 25274 HAY, T. Challenge to plantsmen. Gard. Illus. 66: 6-7. Jan. 1949. 80 G169  
Hybridization of ornamental plants.
- 25275 HELLYER, A. G. L. Garden paths. Amateur Gard. 65(3369): 12. Dec. 7, 1948. 80 Am13
- 25276 HERSEY, J. How to housebreak an orchid. House & Gard. [Greenwich, Conn.] 95(2): 60-61, 131, 133, 135-136, 138. Feb. 1949. 80 H81
- 25277 HERSEY, J. Mountain to Mohammed. House & Gard. [Greenwich, Conn.] 95(3): 160-161. Mar. 1949. 80 H81  
Tropical plants for house plants.
- 25278 HILL, E. C. Planting shrubs and trees at Sea Breeze Farm, Princess Anne County, Virginia. Gard. Club Amer. B. (ser. 11) 12: 37-41. Jan. 1949. 90.32 G16
- 25279 HILLERY, W. O. Meet your primroses halfway. Northwest Gard. & Homes 16(11): 10-11. Jan. 1949. 80 N813
- 25280 HILLERY, W. O. The propagation of primroses. Northwest Gard. & Homes 16(10): 12-13, 28. Dec. 1948. 80 N813
- 25281 HILLS, L. D. Hardy shrubs from winter cuttings. Pop. Gard. 50: 408-409. Dec. 25, 1948. 80 G1622
- 25282 HOFF, S. Premiums for well kept gardens. (In Norwegian.) Norsk Hageetidend 65: 14-16. Jan. 1, 1949. 80 N81
- 25283 HOHMAN, H. J. Trends in rare plants. Amer. Nurseryman 89(2): 7-8. Jan. 15, 1949. 80 Am371
- 25284 HOUGHTON, H. S. Growing African violets in nutrient solution commonly called "hydroponics." African Violet Mag. 2(2): 4-5. 1948. 80 Af8
- 25285 HUBBARD, F. C. For cheerfulness and fragrance. Flower Grower 36: 129. Feb. 1949. 80 M72  
Exacum affine.
- 25286 HUME, H. H. Modern garden Camellias. Horticulture 27: 9, 32. Jan. 1949. 80 H787
- 25287 HUNTER, H. B. Recommended roses. Gard. Gossip 24: 12-13. Jan. 1949. 80 G1625
- 25288 HUTCHISON, P. A beginner's collection of mesembs. III. Cactus & Succulent J. 20: 181. Dec. 1948. 451 C11
- 25289 INGRAM, C. Ornamental cherries. London, Country Life, 1948. 259 p. 97.31 In4
- 25290 INGRAM, C. Random notes on some of the rock roses [Cistus ladaniferus]. Gard. Chron. 125: 28. Jan. 22, 1949. 80 G162
- 25291 INGWERSEN, W. Beginning at the bottom. Alpine Gard. Soc. Q. B. 16: 305-308. Dec. 1948. 84 AL6  
Culture of alpine plants.
- 25292 INGWERSEN, W. Building a rock garden. 2. Amateur Gard. 65(3367): 13. Nov. 23, 1948. 80 Am13
- 25293 JACOBI, E. F., WOUDEMBERG, J. P. M., and KRAMER, C. Research on the effect of winter covering of Rhododendrons. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 713-720. Nov. 1948. 86 N384
- 25294 JAMES, R. A turf wall. North. Gard. 2: 579-580. Dec. 1948. 80 N816
- 25295 JAMES, E. R. The modern Delphinium. My Gard. 38: 23-35. Jan. 1949. 80 M995



- 25296 JOHNSON, A. T. The beauty of rose hips. Amateur Gard. 65(3370): 12-13. Dec. 14, 1948. 80 Am13
- 25297 JOHNSON, A. T. Carpeting shrubs. Amateur Gard. 65(3371): 8. Dec. 21, 1948. 80 Am13
- 25298 JOHNSON, M. P. Have you discovered the "lost" Gordonia? Home Gard. 13(2): 21. Feb. 1949. 80 H756
- 25299 JOHNSON, M. P. Perennials that are really long blooming. Home Gard. 13(2): 39-42. Feb. 1949. 80 H756
- 25300 JOHNSON, M. P. Pink magnolia [M. campbelli]. Home Gard. 13: 61. Jan. 1949. 80 H756
- 25301 JOHNSON, M. P. Spike broom [Cytisus nigricans]. Home Gard. 12(2): 29. Aug. 1948. 80 H756
- 25302 JOUGAN, E. Une belle plante d'appartement à floraison hivernale: le Clivia. Acclimatation 75: 262. Dec. 11, 1948. 14 Ac2
- 25303 JUKES, T. The A.G.S. Swiss trip, 1948. Alpine Gard. Soc. Q. B. 16: 269-277. Dec. 1948. 84 AL6
- 25304 KAMMERER, E. L. Prolonging summer's green. Morton Arboretum. B. Pop. Inform. 23: 42-45. Nov. 1948. 99.9 M84  
Broadleaf evergreens.
- 25305 KELLENBERGER, F. S. A trailer from the Tropics [Episcia fulgida]. Flower Grower 36: 128. Feb. 1949. 80 M72
- 25306 KELLY, MRS. W. F. Potted plants—Epiphyllums. Gard. Club Amer. B. (ser. 11) 12: 83-84. Jan. 1949. 90.32 G16
- 25307 KISELEV, G. E. Komnatnoe fsvetovodstvo [Indoor floriculture]. Moskva, Moskovskii Rabochii, 1948. 143 p. 96.06 K64
- 25308 KRAUS, E. J. Developing new Chrysanthemums. Natl. Hort. Mag. 27: 155-160. Oct. 1948. 80 N216
- 25309 KROMDIJK, G. Culture of Chabaud carnation. (In Flemish.) Cult. en Handel 14: 784-785. Dec. 1948. 80 C892
- 25310 LABRASH, M. What's become of the old man's whiskers [Geum ciliatum]? Home Gard. 13: 39. Jan. 1949. 80 H756
- 25311 LAMBERT, N. Early border Chrysanthemums. Pop. Gard. 50: 379, viii. Dec. 4, 1948. 80 G1622
- 25312 LAMSON, M. D. How to have a week-end flower garden. House & Gard. [Greenwich, Conn.] 95(3): 101, 182-184. Mar. 1949. 80 H81
- 25313 LANDSBERG, A. C. Brazilian gardens. Gard. Club Amer. B. (ser. 11) 12: 49-51. Jan. 1949. 90.32 G16
- 25314 LANE, J. A. How to secure good Chrysanth. cuttings. Smallholder 80(2023): 13. Jan. 7, 1949. 10 Sml
- 25315 LATTING, E. T. Window gardening. Gard. Chron. Amer. 53: 8. Jan. 1949. 80 G1632
- 25316 LAWTON, H. F. Watering by the constant water-level. African Violet Mag. 2(2): 6-9. 1948. 80 Af8
- 25317 LEATHERMAN, S. B. Begonia manicata aureo-maculata. Begonian 16: 10-11. Jan. 1949. 96.511 B39
- 25318 LEITCH, A. Gardens in the far North; cultivated flowers bloom riotously, and in addition the Yukon boasts over 500 identified species of wild flowers. Family Herald & Weekly Star 79(52): 30. Dec. 29, 1948. 7 F21
- 25319 LEMMON, R. S. Good ferns and how to use them. Home Gard. 12(2): 46-56. Aug. 1948. 80 H756
- 25320 LOTHIAN, N. Farmers and trees. So. Austral. Dept. Agr. J. 52: 124-129. Oct. 1948. 23 So84  
Raising trees from seed.
- 25321 LYALL, H. G. We've never enough Meconopsis baileyi. Nurseryman & Seedsman 107: 1918-1919. Dec. 23, 1948. 80 N933
- 25322 LYNDON, R. Australian rose apple, Eugenia myrtifolia is a handsome shrub. New Zeal. Gard. 5: 279-281. Dec. 1, 1948. 80 N4822
- 25323 LYNDON, R. Two easy waterside plants. New Zeal. Gard. 5: 361-362. Jan. 1, 1949. 80 N4822  
Hosta and Dierania.
- 25324 LYNN, G. Starting African violet leaves in chicken feeders. African Violet Mag. 2(2): 22-23. 1948. 80 Af8
- 25325 MCCLELLAND, W. How to force branches in the house. Plants & Gard. (n. s.) 4: 239-240. Winter 1948. 450 P694
- 25326 MACDOUGALL, T. Epiphyllum anguliger as grown in Mexico. Cactus & Succulent J. 20: 172. Nov. 1948. 451 C11
- 25327 MACFIE, D. T. The white lilies. Amateur Gard. 65(3367): 12. Nov. 23, 1948. 80 Am13
- 25328 MACHIN, C. Rhododendron dauricum. Alpine Gard. Soc. Q. B. 16: 320. Dec. 1948. 84 AL6
- 25329 MCLEAN, F. T. Fragrant Glads. Flower Grower 36: 104-106. Feb. 1949. 80 M72
- 25330 MACNEIL, A. Lilies for the garden. Gard. Club Amer. B. (ser. 11) 12: 96-102. Jan. 1949. 90.32 G16
- 25331 MACSELF, A. J. Bulbs and their cultivation. Rev. and enl. ed. London, Collingridge, 1948. 123 p. 96.4 M24
- 25332 MACSELF, A. J. The Chrysanthemum grower's treasury. Rev. ed. London, Collingridge, 1948. 212 p. 96.519 M24Ch
- 25333 MACSELF, A. J. Lawns and sports greens. Rev. and enl. ed. London, Collingridge, 1947. 103 p. 60.1 M24L
- 25334 MANKS, D. S. The literature of the Camellia. Arboretum B. 11: 18-19. Winter 1948. 451 Ar1
- 25335 MARBLE, L. E. Begonias in the home. Begonian 16: 7, 17. Jan. 1949. 96.511 B39
- 25336 MERRY, R. P. An attractive trailing epiphyte [Columnea gloriosa]. Flower Grower 36: 128-129. Feb. 1949. 80 M72
- 25337 MIEGE, E. La culture du Géranium rosat au Maroc. Inform. Maroc. 402: 1, 4. Sept. 25, 1948. 281.8 In3
- 25338 MINSHALL, J. A. School planting. Calif. Gard. 39(4): 7-8. Winter 1948. 80 C127  
Landscape gardening in California.
- 25339 MODE, S. Varieties for me—1948. New England Gladiolus Soc. Gladiolus Mag. 12(6): 9-12, 60. Dec. 1948/Jan. 1949. 96.43 N44
- 25340 MORRISON, A. E. History of the Camellia on the Pacific Coast. Arboretum B. 11: 7-8. Winter 1948. 451 Ar1
- 25341 MORRISON, B. Y. More about African violets. Natl. Hort. Mag. 27: 168-182. Oct. 1948. 80 N216
- 25342 MORRISON, B. Y. Striping in Azaleas. Natl. Hort. Mag. 27: 186-187. Oct. 1948. 80 N216
- 25343 MORTON, R. J. Perpetual carnations for next year. Amateur Gard. 65(3367): 14. Nov. 23, 1948. 80 Am13
- 25344 NICHOLSON, A. Azalea man. Country Gent. 119(2): 21, 128-130. Feb. 1949. 6 C833  
Azalea study and collection by Chauncey D. Beadle.
- 25345 NILSSON, A. Chrysanthemum carinarium, Margareta and Corona; two new varieties. (In Swedish.) Weibulls Allehanda 8(3): 5-9. 1948. 80 W42
- 25346 NILSSON, A. Cosmos bipinnatus, Gloria and Tagetes patula nana, Marietta, two valuable novelties. (In Swedish.) Weibulls Allehanda 8(3): 11-12. 1948. 80 W42
- 25347 NILSSON, A. Petunia for balcony and border. (In Swedish.) Weibulls Allehanda 8(3): 19-20. 1948. 80 W42  
Varieties.
- 25348 NILSSON, A. Some new snapdragons. (In Swedish.) Weibulls Allehanda 8(3): 9-11. 1948. 80 W42
- 25349 NOBLE, M. The fabulous orchid family. XVIII Modern hybrids. Home Gard. So. 9: 16, 18. Jan. 1949. 80 H755
- 25350 NOLAN, G. C. Have you a Ceropegia? Begonian 16: 5-6, 16-17. Jan. 1949. 96.511 B39
- 25351 OLSEN, O. From the other side of the Sound. (In Danish.) Gart.-Tid. 64: 579. Dec. 1, 1948. 80 G192  
Description of Sofiero castle garden in Scania.
- 25352 OREGON FUCHSIA SOCIETY. Fuchsia culture in Pacific Northwest. Rev. ed. Portland? 1947. 47 p. 96.532 Or3
- 25353 ORPET, E. O. Greenhouse flowering bulbs to grow at home. Horticulture 27: 10, 33. Jan. 1949. 80 H787
- 25354 PALMER, E. L. Lawn laboratories. N. Y. Agr. Col. Ext. Cornell Rural Leaflet 42(2), 32 p. Fall 1948. 275.29 N48R
- 25355 PALMER, R. C. Amazing how many varied philosophies have origin in the fruit growers' garden. Country Life [Vernon] 33: 9, 32. Jan. 1949. 7 C832  
Flowers and the effects they have on gardeners.



- 25356 PARK, B. New roses from two continents. Gard. Illus. 66: 26-27. Feb. 1949. 80 G169
- 25357 PARSONS, H. Details of Gerbera growing. Fruit-Grower 107: 105-106. Jan. 27, 1949. 80 F941
- 25358 PARSONS, H. Useful plants and shrubs for forcing. Fruit-Grower 106: 671-672. Nov. 25, 1948. 80 F941
- 25359 PEACOCK, F. W. Plants I have grown. Alpine Gard. Soc. Q. B. 16: 316-319. Dec. 1948. 84 AL6
- 25360 PEARCE, S. H. Lily of the valley. Amateur Gard. 65(3369): 11. Dec. 7, 1948. 80 Am13
- 25361 PERRY, F. Overhauling the herbaceous border. Amateur Gard. 65(3365): 13. Nov. 9, 1948. 80 Am13
- 25362 PERRY, F. Perennials for shady borders. Amateur Gard. 65(3370): 13. Dec. 14, 1948. 80 Am13
- 25363 PESCOTT, E. E. Tasmanian trees. Westralian Farmers' Co-op Gaz. 14: 367, 369. Dec. 1948. 280.28 W522
- 25364 PETERSON, C. E. Flower arrangements: examples of the author's arrangements of flowers and foliage of Hawaii and other parts of the United States. New York, Studio Pub., 1948. 80 p. 96.03 P44
- 25365 PFISTER, C. E. New roses for 1949. Flower Grower 36: 33-34, 70-71. Jan. 1949. 80 M72
- 25366 PHILLIPS, G. A. R. Perennial sunflowers. Amateur Gard. 65(3373): 10. Jan. 4, 1949. 80 Am13
- 25367 PHILLIPS, M. Shade plants for the garden. Begonian 16: 15. Jan. 1949. 96.511 B39
- 25368 PIRO, M. E. DE. Une jolie fleur d'hiver, le Freesia. Réveil Agr. 58: 22-23. Jan. 15, 1949. 14 R322
- 25369 PLETCHER, G. H., JR. Winter pruning of shrubs not advised. Tex. Farming & Citric. 25: 17. Jan. 1949. 80 T31
- 25370 PORTER, H. 'Mums from July till frost. Flower Grower 36: 122-123, 148-151. Feb. 1949. 80 M72
- 25371 PORTER, M. Flowers or views. My Gard. 38: 79-83. Jan. 1949. 80 M995
- 25372 POST, K. Chrysanthemums and profits. Chrysanthemum Soc. Amer. B. 16(4): 9-13. Dec. 1948. 81 C46B
- 25373 POST, K. Grading carnations. Carnation Craft 8: 6. Jan. 1949. 80 C21
- 25374 POWELL, N. H. Vandas. Orchid Digest 12: 256-258. Nov./Dec. 1948. 80 Or172
- 25375 PRATT, R. Gloxinias. Ladies' Home J. 66(2): 187-188. Feb. 1949. 321.8 L12
- 25376 PRINCE, A. A terraced slope will give you more outdoor living space. House & Gard. [Greenwich, Conn.] 95(3): 116-117. Mar. 1949. 80 H81
- 25377 PROCKTER, N. J. Catkin-bearing shrubs. Amateur Gard. 65(3373): 10. Jan. 4, 1949. 80 Am13
- 25378 PUDDLE, F. C. Herbaceous borders. My Gard. 38: 19-22. Jan. 1949. 80 M995
- 25379 PUDDLE, F. C. Spring flowers and autumn colour. My Gard. 37: 567-578. Dec. 1948. 80 M995
- 25380 QUAIN, J. Le marcottage des oeillets. J. de la France Agr. 4(165): 6. Aug. 27/Sept. 2, 1948. 14 J829
- 25381 RICHARDSON, L. What to do about those bare spots. Farm J. 73(2): 113. Feb. 1949. 6 F2212
- 25382 ROCKWELL, F. F., and GRAYSON, E. C. Every show needs a good arrangement schedule. Home Gard. 12(2): 62-66. Aug. 1948. 80 H756
- 25383 ROCKWELL, F. F. For your daffodil collection. Home Gard. 12(3): 18-19. Aug. 1948. 80 H756
- 25384 ROCKWELL, F. F. The proof of the roses. Home Gard. 12(2): 22-25. Aug. 1948. 80 H756
- 25385 ROS DE RAMIS, J. DE. Nardos o varas de Jesé. Cult. Mod. 31: 325-326. Sept. 1948. 15 C89
- 25386 ROURKE, F. Nine hardy vines. Horticulture 27: 29. Jan. 1949. 80 H787
- 25387 ROWNTREE, L. A snapdragon appears. Natl. Hort. Mag. 27: 149-150. July 1948. 80 N216
- 25388 SAMPSON, S. Growing tuberous [Begonias] in Duluth and Superior. Begonian 16: 14-15. Jan. 1949. 96.511 B39
- 25389 SANDAY, W. E. J. Decorative roses for exhibition and garden. Gard. Chron. 124: 198-199. Dec. 18, 1948. 80 G162
- 25390 SAWADA, K. Camellia Sasanqua comes into its own. Home Gard. So. 9: 6-7. Jan. 1949. 80 H755
- 25391 SAXTON, R. Holly decorations: a few suggestions. Pop. Gard. 50: 398. Dec. 18, 1948. 80 G1622
- 25392 SCHIPPER, E. C. Dock is a favorite. Weeds in arrangement. Wis. Hort. 39: 124. Jan. 1949. 80 W752
- 25393 SCOTT, L. Flowers for exhibition-2-3. New Zeal. Gard. 5: 256-260, 365-367, Dec. 1948-Jan. 1949. 80 N4822
- 25394 SECKMAN, M. C. Avocations: flower arrangement. Flower Grower 36: 46-47, 63. Jan. 1949. 80 M72
- 25395 SECKMAN, M. C. New faces among the old-time perennials. Home Gard. 13: 17-22. Jan. 1949. 80 H756
- 25396 SESSIONS, K. O. Ornamental flowering fruit trees. Calif. Gard. 39(4): 8. Winter 1948. 80 C127
- 25397 SHARP, M. L., ed. Camellias illustrated. Portland, Oreg., West. Trail Pub. Co., 1948. map. 97.31 Sh2
- 25398 SHEPHERD, H. W. Tree care. Arborist's News 13: 119-125. Dec. 1948. 99.8 Ar14
- 25399 SHERMAN, H. M. Parade of the best new Gladiolus. Flower Grower 36: 114-117, 156-159. Feb. 1949. 80 M72
- 25400 SHEWELL-COOPER, W. E. Winter beauty in the garden; trees and shrubs that provide colour in the duller months. Field 192: 697. Dec. 18, 1948. 10 F45
- 25401 SHULTZ, L. A. A visit to Breeze Hill. Flower Grower 36: 90. Feb. 1949. 80 M72
- 25402 SLOGTEREN, E. VAN. Het wetenschappelijk onderzoek ten bate van de cultuur en export van de Hollandse bloembollen [Scientific investigation of growing and exporting Dutch bulbs]. s'-Gravenhage, Maatschappij Diligentia, 1947? 15 p. Ref. 464.08 SL5W
- Includes diseases.
- 25403 SMEDT, A. DE. Flower arrangements for Christmas. (In Flemish.) Tuinbouwberichten 12: 197-198. Dec. 15, 1948. 80 T817
- 25404 SMITH, C. M., and GILL, B. Australian orchid flowers flown to the U. S. A. Orchid Rev. 56: 181-182. Dec. 1948. 80 Or15
- 25405 SMITH, MRS. T. J. Christmas decorations. Gard. Gateways 18(4): 6. Dec. 1948. 90.32 G166
- 25406 SMITH, V. M. Planting for foliage. Calif. Gard. 39(4): 3. Winter 1948. 80 C127
- 25407 SNYDER, L. C., and others. Evergreens. Minn. U. Agr. Ext. B. 258, 28 p. June 1948. 275.29 M66S
- R. J. Wood, C. M. Christensen, and A. C. Hodson, joint authors.
- 25408 SOUTHWELL, V. G. That Christmas dish garden. Gard. Chron. Amer. 53: 11, 26. Jan. 1949. 80 G1632
- 25409 SPATZ, C. H. Amaryllis culture. Organic Gard. 14(2): 16-17. Feb. 1949. 56.8 Or3
- 25410 SPENCER, S. J. Holidays for Dahlias. Nurseryman & Seedsman 107: 1916-1917. Dec. 23, 1948. 80 N933
- 25411 STAMNITZ, E. A. A winter bloomer [Crasula argentea]. Cactus & Succulent J. 20: 165-166. Nov. 1948. 451 C11
- 25412 STAUTEMAS, E. Forcing of Azalea indica L. (In Flemish.) Tuinbouwberichten 12: 196-197. Dec. 15, 1948. 80 T817
- 25413 STAUTEMAS, E. Philodendron. (In Flemish.) Tuinbouwberichten 12: 177. Nov. 15, 1948. 80 T817
- 25414 STEEN, F. VAN. Coldframe culture of Iris for cutting. (In Flemish.) Cult. en Handel 14: 786-787. Dec. 1948. 80 C892
- 25415 STEFFEK, E. F. Curious dragonroot [Arisaema dracontium]. Nature Mag. 24(1): 19. Jan. 1949. 409.6 N214
- 25416 STEFFEK, E. F. Lupine for waste places. Nature Mag. 42: 78. Feb. 1949. 409.6 N214
- 25417 STEVENS, W. C. Kansas wild flowers. Lawrence, U. Kans. Press, 1948. 463 p. 455.72 St4
- 25418 STEVENSON, D. Charm Chrysanthemums. Amateur Gard. 65(3373): 12-13. Jan. 4, 1949. 80 Am13
- 25419 STEVENSON, V. Christmas decorations. Amateur Gard. 65(3371): 9. Dec. 21, 1948. 80 Am13
- 25420 STEVENSON, V. The decorative classes at flower shows. Amateur Gard. 65(3365): 19. Nov. 9, 1948. 80 Am13
- 25421 STEVENSON, V. Rudbeckia hybrids, a likely flower. Fruit-Grower 106: 738. Dec. 9, 1948. 80 F941



- 25422 STIRLING, W. The best Cypridiums. Orchid Rev. 57: 10-15. (To be cont.) Jan. 1949. 80 Or15
- 25423 STRANDER, J. B. Evergreens in the landscape. II-III. Northwest Gard. & Home 16(10): 8-9; (11): 8-9, 29. Dec. 1948-Jan. 1949. 80 N813
- 25424 STRINGFELLOW, R. C. Boston fern, age 23, height 6 feet. Flower Grower 36: 128. Feb. 1949. 80 M72
- 25425 SUTHERLAND, M. Trees and hedges for the approach to the farm. New Zeal. J. Agr. 77: 489-491, 493-495, 585-587. Nov.-Dec. 1948. 23 N48J
- 25426 SYMONS-JEUNE, B. H. B. Maples. My Gard 37: 607-610. Dec. 1948. 80 M995
- 25427 SYMPOSIUM—new Camellias. Arboretum B. 11: 19-24, 29. Winter 1948. 451 Ar1
- Southeast, by R. J. Wilmut; Southern California, by C. Chidamian; Northwest, by G. G. Ramsey; Washington, by J. Buzard.
- 25428 TABER, G. B., and KISTNER, R. Flower arranging for the American home. New and enl. ed. Philadelphia, Macrae-Smith, 1948. 250 p. 96.03 T11
- 25429 TALBERT, T. J., and SMITH, J. E., JR. The multiflora rose as a living hedge fence. Mo. Agr. Expt. Sta. B. 517, 11 p. Sept. 1948. 100 M693
- 25430 TANSLEY, M. Now is the time to propagate the greenhouse carnations. Pop. Gard. 50: 409. Dec. 25, 1948. 80 G1622
- 25431 TARRES, M. El Rosal en las alternativas del Llobregat. Surco [Madrid] 7(80): 19-21. (Concl.) Oct. 1948. 15 Su7
- 25432 TESCHNER, C. A. Irises for the rock garden. New Zeal. Gard. 5: 285-287. Dec. 1, 1948. 80 N4822
- 25433 THIEULLOY, E. DE. Une bonne clôture facile à réaliser: le treillage de chataignier. Rustica 21: 845. Nov. 28, 1948. 14 R92
- 25434 THOMAS, P. H. Deciduous ornamental trees for landscapes and gardens. Tasmanian J. Agr. 19: 227-229. Nov. 1948. 23 T182T
- 25435 VAN MELLE, P. J. Choose the best of the junipers. Home Gard. 13: 62-68. Jan. 1949. 80 H756
- 25436 VAN MELLE, P. J. The flowering crab-apples. Home Gard. 12(2): 30-35. Aug. 1948. 80 H756
- 25437 VAUTIER, J. G. Self-supporting hardy plants. Amateur Gard. 65(3369): 12-13. Dec. 7, 1948. 80 Am13
- Ornamental plants.
- 25438 WAHN, A. Would you grow orchids? Here are minute directions. South. Florist & Nurseryman 61(40): 14-15, 54-55, 57. Dec. 31, 1948. 80 So86
- 25439 WALSH, R. N. Rooting leaves out of doors in the garden. African Violet Mag. 2(2): 9. 1948. 80 Af8
- 25440 WARE, R. B. Success with lilies in the home garden. Canby, Oreg., 1948. 36 p. 96.46 W22
- 25441 WATKINS, J. V. Conducted tour of Florida commercial orchid ranges. South. Florist & Nurseryman 61(41): 13-14. Jan. 7, 1949. 80 So86
- 25442 WELLS, A. Q. The Alpine Garden Society's tour, 1948. Alpine Gard. Soc. Q. B. 16: 278-281. Dec. 1948. 84 AL6
- Switzerland.
- 25443 WHITAKER, E. S. Work affecting trees on State of California highway rights of way. Arborist's News 13: 110-112. Dec. 1948. 99.8 Ar14
- 25444 WHITE, MRS. W., JR. Flowers in Sweden. Gard. Club Amer. B. (ser. 11) 12: 63-65. Jan. 1949. 90.32 G16
- 25445 WIBIRAL, E. Ampelpflanzen. Gart.-Z. Illus. Flora 71: 180-182. Dec. 1948. 80 G1991
- 25446 WILBURR, H. Looking toward Spring? Watch trees for their catkins; the story of the Pussy willow [Salix discolor]. Frontiers 13: 67, 95. Feb. 1949. 410 F92
- 25447 WILCOX, R. S. Roving with roses. Minn. Hort. 77: 5. Jan. 1949. 81 M66
- 25448 WILL, G. F. In defense of the cottonwood. N. & S. Dak. Hort. 22: 10. Jan. 1949. 81 N817
- 25449 WILLES, E. N. Pot plants for Christmas. Amateur Gard. 65(3370): 10. Dec. 14, 1948. 80 Am13
- 25450 WOOD, C. W. Adventuring with house plants. Horticulture 27: 28. Jan. 1949. 80 H787
- 25451 WOOD, C. W. August can be colorful. Amer. Nurseryman 89: 16, 18, 20, 64-66. Jan. 1, 1949. 80 Am371
- 25452 WOOD, W. P. Fuchsias in the greenhouse. Amateur Gard. 65(3373): 12. Jan. 4, 1949. 80 Am13
- 25453 WRIGHT, P. H. Prunus tomentosa hybrids. Horticulture 27: 26-27. Jan. 1949. 80 H787
- 25454 WRIGHT, P. H. Quest for hardy roses. Horticulture 27: 8. Jan. 1949. 80 H787
- 25455 WYMAN, D. New or rare ornamental plants recently distributed to commercial nurserymen by the Arnold Arboretum. Arnoldia 8: 45-63. Dec. 3, 1948. 451 Ar6Ba
- 25456 YAGER, L. Beautifying farm grounds. Dakota Farmer 68(24): 16-17. Dec. 18, 1948. 6 D14
- 25457 YAGER, L. Building the new lawn. Dak. Farmer 69(2): 18-19. Jan. 15, 1949. 6 D14

#### Vegetable and Truck Crops (Including Potatoes)

- 25458 ANDERSEN, A. M., and JUSTICE, O. L. Germination of seeds of five kinds of cucurbits at two temperatures. Assoc. Off. Seed Anal. Proc. 38: 45-47. 1948. 61.9 As7
- 25459 ANDERSON, W. S. Prolific pickler; Mississippi comes up with a new pickling cucumber that out-yields previous lines. South. Seedsman 12(2): 14. Feb. 1949. 61.8 So8
- 25460 ATKINS, F. C. Mushroom research is yielding results. Grower 30: 1092-1093. Dec. 25, 1948. 286.83 M34
- 25461 BAILEY, F. L. Sub-irrigation of glasshouse tomatoes. New Zeal. J. Agr. 77: 475-476. Nov. 1948. 23 N48J
- 25462 BLOM, G. What tomatoes should we grow? (In Dutch.) Groenten en Fruit 4: 411-412. Jan. 6, 1949. 80 G89
- 25463 BLOSSOM, B. How to have a week-end vegetable garden. House & Gard. [Greenwich, Conn.] 95(3): 100, 181-182. Mar. 1949. 80 H81
- 25464 BRACHO PEREZ, P. La cebolla. Rev. Nac. de Agr. [Bogotá] 41(501/502): 38. Jan./Feb. 1947. 9.4 R32
- 25465 BRETT, W. Vegetable growing. London, Pearson, 1948. 192 p. 91.15 B752V
- 25466 BROWN, H. D., and HUTCHISON, C. S. Vegetable science. Chicago, Lippincott, 1949. 452 p. 91.13 B81
- 25467 CARUSO, S. A. Conservación frigorífica de semilla de papa. Campo y Suelo Argentino 32(385): 22-23, 41-42. Nov. 1948. 9 C15
- 25468 CATES, J. S. Hybrid onions come of age. Country Gent. 119(2): 35, 112-113. Feb. 1949. 6 C833
- 25469 CHOQUET, A. Méthode pour faire grossir les artichauts, les choux & les laitues. Jard. Ouvrier de France 1948: 10. July/Aug. 1948. 80 J283
- 25470 CHRISTENSEN, W. Industrialization of mushroom culture. (In Danish.) Gart.-Tid. 64: 580-581. Dec. 1, 1948. 80 G192
- 25471 CLAPHAM, F. W. A prosperous New Year for cues [cucumbers]. Nurseryman & Seedsman 107: 1846-1843. Dec. 16, 1948. 80 N933
- 25472 COPLEY, G. H. Cropping an allotment. Natl. Allot. & Gard. J. 78: 12. Dec. 1948. 80 N217
- Vegetables.
- 25473 COSTA, F. C. DA. The sweet potato; notes on the history of its culture in the Azores. (In Portuguese.) Azores. Comis. Reguladora dos Cereais. B. 8: 1-24. 2. sem. 1948. 15 Az6
- 25474 COULTER, F., and WILLARD, J. C. A famous onion from a famous seed town: Wethersfield, large red. Seed World 64(2): 20, 22. Jan. 21, 1949. 61.8 Se52
- 25475 CRAWFORD, W. G. Cauliflowers and broccoli. New Zeal. J. Agr. 77: 589, 591-592. Dec. 1948. 23 N48J
- Chiefly culture.
- 25476 CROCE, F. M. Cultivo e industrialización del pimentón. Rev. de Agr. Trop. [Salvador] 14(25): 92-96. 1947. 8 R326
- 25477 CUMMINGS, M. B. Broccoli, an important vegetable. Organic Gard. 14(2): 26-29. Feb. 1949. 56.8 Or3
- 25478 DAKERS, J. S. Quality in vegetables. Homes & Gard. 30(8): 29, 70, 72. Feb. 1949. 318.8 Ou7
- Culture, chiefly.
- 25479 DIAZ UNGRIA, J. Cultivo de bulbos comestibles. I. La cebolla. Ager (ser. 2) 4: 195-199. Oct. 1948. 33.23 Ag3



- 25480 DIONNE, G. Champignons comestibles ou dangereux. Voici les clavaires. *Rustica* 22: 8, 13. Jan. 2, 1949. 14 R92
- 25481 ESBO, H. Summary of speech at the potato exhibition in Leksand. (In Swedish.) *Lantbrukstidskr. för Dalarna* 1948: 213-215. Dec. 1948. 11 L29 Diseases and quality.
- 25482 EYSTER, W. H. How to grow early vegetables under glass. *Organic Gard.* 14(2): 20-22. Feb. 1949. 56.8 Or3
- 25483 FABIANI, L. Seed potato culture and environment. (In Italian.) *Campagna* 47: 243-244. Oct. 1, 1948. 16 C152
- 25484 FERNÁNDEZ VALIELA, M. V. Búsqueda de regiones semilleras de papa. *IDIA; Inform. de Invest. Agr.* 2(14): 3. Feb. 1949. 9 Id3 Argentina.
- 25485 FRANKE, L. Now we'll have sweet potato 'bushes'; Texan's new variety allows late cultivation, boosts yields; may be biggest thing in sweet potato history. *Farm J.* 73(2): 34, 38. Feb. 1949. 6 F2212
- 25486 GALLETLY, J. D. Tomato culture in troughs under glass. *New Zeal. J. Agr.* 77: 445-447. Nov. 1948. 23 N48J
- 25487 GARDNER, J. S. Your vegetable garden month by month. *Ky. Agr. Col. Ext. C.* 376, rev., 31 p. Jan. 1948. 275.29 D415
- 25488 GAULT, S. M. The earliest broad beans. *Amateur Gard.* 65(3365): 16. Nov. 9, 1948. 80 Am13
- 25489 GEORGE, L. V. Allseason tomato. *South. Seedsman* 12: 13. Jan. 1949. 61.8 So8
- 25490 GILLARD, S. O. Outdoor tomatoes from December to June. *New Zeal. J. Agr.* 77: 401-406. Oct. 1948. 23 N48J
- 25491 GOMES, P. Onion culture. (In Portuguese.) *Campo [Rio de Janeiro]* 19(225/226): 14. Sept./Oct. 1948. 9.2 C15
- 25492 GOMES, P. Potato culture. (In Portuguese.) *Campo [Rio de Janeiro]* 19(225/226): 31-32. Sept./Oct. 1948. 9.2 C15
- 25493 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Crop production in frames and cloches. *Gt. Brit. Min. Agr. & Fisheries. B.* 65, 51 p. 1948. 10 G794B Vegetables.
- 25494 HANSEN, L. The new P-varieties 1948. (In Danish.) *Haven* 49: 19-20. Feb. 1949. 80 H29 Vegetables.
- 25495 HÄRING. Die stecklingsernte 1948. *Württemberg. Wchnbl. f. Landw.* 115: 296-297. Oct. 23, 1948. 18 W96 Beets.
- 25496 HASTINGS, W. R. Win All-American awards. *New England Homestead* 122: 11, 12. Jan. 8, 1949. 6 N442 Vegetables.
- 25497 HAUMANN, A. K. Das grabellandbuch. Lüneburg, Kinau, 1947. 61 p. 91 H29
- 25498 HAUS, K. Culture of seed potatoes under official control in Trøndelag 1948. (In Norwegian.) *Norsk Landbr.* 14: 453-454. Dec. 10, 1948. 11 N8122
- 25499 HELLYER, A. G. L. Vegetables for shady plots. *Amateur Gard.* 65(3367): 19. Nov. 23, 1948. 80 Am13
- 25500 HENNIG, B. Späte ernte! Die massenpilze des herbstes. *Natur u. Nahr.* 2(19/20): 18. Oct. 1948. 80 N218B
- 25501 HIBBARD, A. D., and SCHROEDER, R. A. Plant late for fall vegetables. *Mo. Agr. Expt. Sta. C.* 331, 12 p. July 1948. 100 M693
- 25502 HIGGINS, T. W. Indiana's muck crops program. *Better Crops Plant Food* 33: 21-22, 47-48. Jan. 1949. 6 B46 Vegetables.
- 25503 HOME GROWN THRESHED PEAS JOINT COMMITTEE. Harrison's Glory pea seed approval scheme, 1948. London, 1948. 7 p. 80 H75Hg
- 25504 HOME GROWN THRESHED PEAS JOINT COMMITTEE. Harvest your peas on "four-poles" and avoid losses from bad weather. London, 1948? 2 p. 91.56 H75
- 25505 HOOGHOUTD, S. B. Third report of the ground water condition experimental plot on the experimental farm "Jacob Sijpkens Heerd" at New-Beerta. (In Dutch.) *Netherlands. Landbouwvoorlichtingsdienst. Maandbl.* 5: 467-472. Oct. 1948. 12 N383M Quality and yield of legumes and cereals.
- 25506 IVINS, J. D., and MCDERMOTT, N. Early planting of maincrop potatoes. *Gt. Brit. Agr. Agriculture* 55: 452-453. Jan. 1949. 10 G79J
- 25507 JEHLE, R. A., and STEVENSON, F. J. The Marygold potato. *Amer. Potato J.* 26: 25-32. Jan. 1949. 75.8 P842
- 25508 KELBERT, D. G. A. The performance of new cucumber varieties. *Mkt. Growers J.* 78: 16, 29, 30, 35. Jan. 1949. 6 M34
- 25509 KIDNER, A. Asparagus. *Estate Mag.* 49: 12-14. Jan. 1949. 10 Es8 Breeding.
- 25510 KIDNER, A. W. Breed asparagus like cattle! *Fruit-Grower* 107: 16-17. Jan. 6, 1949. 80 F941
- 25511 KNOTT, J. E. Vegetable growing. Ed. 4, rev. Philadelphia, Lea & Febiger, 1949. 314 p. 91.15 K75
- 25512 KÖHLER, H. Kartoffellagerung. *Mehr Hackfrucht* 2, 32 p. 1948. 85 M47
- 25513 KRASOCHKIN, V. T., and others. Ovoshchevodstvo Urala; otkrytyi grunt [Vegetable gardening in the Ural]. *Sverdlovsk, Sverdlovskoe Obl. Gos. Izd-vo*, 1947. 367 p. 91 K862O
- T. V. Lizgunova, A. M. Alpat'ev, and I. G. Eikhfeld, joint authors.
- 25514 KÜPPERS, G. A. Topinambur, anbau und nutzungsmöglichkeit. Hannover, Landbuch Verlag, 1947? 60 p. 91.36 K96
- 25515 LANDREVILLE, P. Comment choisir une bonne semence de légumes. *B. des Agr.* 45(1): 42. Jan. 1949. 7 B872
- 25516 LARSON, R. E. Pea variety and strain trials, 1948. *Pa. Agr. Expt. Sta. J. Ser. Paper* 1481, 3 p. Oct. 20, 1948. 100 P381J
- 25517 LECOMPTE, S. B., JR. Vegetable performance and environment studies. *Hort. News* 30: 2121. Jan. 1949. 81 N46
- 25518 LEHMANN, N. Gemüsebau ABC. Lüneburg, Kinau, 1947. 62 p. (Kurzschriften für Landwirtschaft, Gartenbau und Siedlung. 9) 91 L52
- 25519 LIBOWITZKY, J. A. Paprika als treibgemüse. *Gart.-Z. Illus. Flora* 71: 176-178. Dec. 1948. 80 G1991
- 25520 LOADS, F. W. Care of winter greens. *Amateur Gard.* 65(3365): 16. Nov. 9, 1948. 80 Am13
- 25521 MCCUBBIN, E. N., EDDINS, A. H., and KELSEIMER, E. G. Growing cabbage plants in seedbeds. *Fla. Agr. Expt. Sta. Press B.* 656, 4 p. Nov. 1948. 100 F66S
- 25522 MCEWEN, E. R. Electrically warmed celery beds make bigger profits. *Utah Farmer* 68(9): 5, 39. Dec. 15, 1948. 6 D45
- 25523 MCKENZIE, W. F. Tomatoes and green house crops. London, Garden Publications, 1947. 102 p. 91.12 M19
- 25524 MAGELLI, E. The true S. Marzano [tomato] not to be found. (In Italian.) *Ital. Agr.* 85: 703-710. Ref. Dec. 1948. 16 It1
- 25525 MARTINI. Kartoffelherkunftsprüfungen 1947 und 1948. *Württemb. Wchnbl. f. Landw.* 115: 412. Dec. 25, 1948. 18 W96
- 25526 MATSENTOV, D. I. Luk i chesnok [Onion and garlic]. Moskva, Moskovskii Rabochii, 1948. 118 p. 91.44 N21
- 25527 MAXIM, C. On onions. *Smallholder* 80(2020): 7. Dec. 17, 1948. 10 Sml
- 25528 MIALLET, A. Espacement et calibrage des plants de pommes de terre. *Prog. Agr. et Vitic.* 1949: 4-7. Jan. 2/9, 1949. 14 P94
- 25529 MICHAUD, M. La culture de l'artichaut. *Réveil Agr.* 57: 374. (Cont.) Dec. 15, 1948. 14 R322
- 25530 MOEGLING. Können die kartoffelerträge noch gesteigert werden? *Württemb. Wchnbl. f. Landw.* 115: 386. Dec. 11, 1948. 18 W96
- 25531 MUNN, M. T. New trends in seed germination. *Canner* 108(1): 31-32. Jan. 1, 1949. 286.83 C16
- 25532 NEGRE, M. Compte rendu d'essais effectués dans l'Aveyron. *Prog. Agr. et Vitic.* 1948: 324-328. Dec. 19, 1948. 14 P94 Potatoes.
- 25533 NILSSON, A. Seeding or planting of onions. (In Swedish.) *Weibulls Allehanda* 8(3): 12-17. 1948. 80 W42



- 25534 NILSSON, F., and LINDWALL, H. Variety trials with vegetables in Norrland. III-IV. (In Swedish.) *Lantbr.-, Mejeri- och Trädgårdst. Statens Mejeri-försök. Meddel.* 44: 1-56; 46: 171-224. Ref. 1948. 86 AL64  
English summary.
- III, Leek, spinach and lettuce in 1938-1947; IV, Sugar peas in 1938-1947.
- 25535 NISSLEY, C. H. New Jersey vegetables. *Hort. News* 30: 2113-2117. Jan. 1949. 81 N46
- 25536 NOLL, C. J., and ODLAND, M. L. Cabbage variety and strain trials, 1948. *Pa. Agr. Expt. Sta. J. Ser. Paper* 1492, 4 p. Nov. 22, 1948. 100 P381J
- 25537 NOLL, C. J., and ODLAND, M. L. Sweet corn variety and strain trials - 1948. *Pa. Agr. Expt. Sta. J. Ser. Paper* 1478, 9 p. Oct. 12, 1948. 100 P381J
- 25538 ODLAND, M. L. Carrot variety and strain trials - 1948. *Pa. Agr. Expt. Sta. J. Ser. Paper* 1484, 4 p. Nov. 3, 1948. 100 P381J
- 25539 ODLAND, M. L., and NOLL, C. J. Lima bean variety and strain trials - 1948. *Pa. Agr. Expt. Sta. J. Ser. Paper* 1480, 3 p. Oct. 14, 1948. 100 P381J
- 25540 ODLAND, M. L., and NOLL, C. J. Snap bean variety and strain trials, 1948. *Pa. Agr. Expt. Sta. J. Ser. Paper* 1479, 3 p. Oct. 14, 1948. 100 P381J
- 25541 ODLAND, M. L., and NOLL, C. J. Tomato variety hybrid and strain trials, 1948. *Pa. Agr. Expt. Sta. J. Ser. Paper* 1485, 5 p. Nov. 8, 1948. 100 P381J
- 25542 OLIVER, E. G. Why Caserta squash rates a gold medal. *South. Seedsman* 12: 24, 54. Jan. 1949. 61.8 So8
- 25543 PAOLIERI, L. São Paulo sweet corn, a new type of corn for S. Paulo. (In Portuguese.) *Soc. Rur. Brasileira. Rev.* 28(338): 14-17. Nov./Dec. 1948. 9.2 B733
- 25544 PARKER, G. Intensive vegetable growing. *New Zeal. Homes & Gard.* 18(10): 9-10. Jan. 1, 1949. 80 N4823
- 25545 PERRON, M. Origine et culture de la pomme de terre. *Foyer Rur. [Montreal]* 8(5): 11, 21. Feb. 1949. 7 F83
- 25546 PRADON, R. Essais de variétés de pommes de terre. *Réveil Agr.* 57: 369. Dec. 15, 1948. 14 R322
- 25547 PROCTER, G. C. Under glass: growing the best tomato plants. *Grower* 31: 61. Jan. 8, 1949. 286.83 M34
- 25548 PUSHKARNATH. Increasing potato production. *Indian Farming* 9: 289-293. July 1948. 22 In283
- 25549 QUARRELL, C. P. Cloche gardening; early bunching carrots are profitable. *Pop. Gard.* 50: 408, 412. Dec. 25, 1948. 80 G1622
- 25550 QUARRELL, C. P. Strip cropping. 1. Fruit, Flower & Veg. *Trades' J.* 94: 855. Dec. 18, 1948. 80 F946
- 25551 ROBINSON, R. A. Preparations for early potatoes. *Smallholder* 80(2020): 9. Dec. 17, 1948. 10 Sml
- 25552 ROCKWELL, F. F. How to plan your vegetables to fit your garden. *Home Gard.* 13(2): 22-26. Feb. 1949. 80 H756
- 25553 ROCKWELL, F. F. Vegetable champions. *Home Gard.* 13: 55-59. Jan. 1949. 80 H756
- 25554 ROCKWELL, F. F. Vegetables—and vacations. *Home Gard.* 12(2): 36-38. Aug. 1948. 80 H756
- 25555 ROSE, F. J. A cropping scheme for the vegetable garden. *Gard. Illus.* 66: 32-33. Feb. 1949. 80 G169
- 25556 ROSELLA, E. Réservez-vous comme semences des pommes de terre plantées tard en 1948. *Prog. Agr. et Vitic.* 1948: 311-313. Dec. 5/12, 1948. 14 P94
- 25557 ROSS, A. A. Tomato variety investigations in the Stanthorpe district. *Queensland Agr. J.* 67: 200-205. Oct. 1948. 23 Q33
- 25558 SEGUINOT ROBLES, P. Experimentos en Puerto Rico con variedades de hortalizas a tres altitudes. *Rev. de Agr. de Puerto Rico* 39(1): 15-20. Jan./June 1948. 8 R325
- 25559 SELLSCHOP, J. P. F., and DU TOIT, J. J. The production of potatoes. *Farming So. Africa* 23: 645-654. Oct. 1948. 24 So842
- 25560 SHEWELL-COOPER, W. E. Why it pays to sprout seed potatoes. *Pop. Gard.* 50: 417. Jan. 1, 1949. 80 G1622
- 25561 SILVEIRA, G. G. DA. Teaching vegetable culture. (In Portuguese.) *Lavoura* 52: 23-24. Sept./Oct. 1948. 9.2 L39  
Course of study of a Brazilian school.
- 25562 SIMON Y REGALADO, E. Cultivo de la cebolla. *Rev. Ganad.* 9(2): 39-44, 64. Feb. 1949. 49 R321
- 25563 SKÄRMAN, S. Valuable potato research; a report on research of current interest supported by the Agricultural Research Council. (In Swedish.) *Lantmannen* 32: 755-756. Nov. 13, 1948. 11 L234
- 25564 SMITH, S. N. Factors in producing good sweet corn seed. *Canner* 108(1): 42, 44. Jan. 1, 1949. 286.83 C16
- 25565 SNEEP, J. Vegetative propagation in cabbage breeding. (In Dutch.) *Inst. v. de Veredeling van Tuinbouwgewassen. Meded.* 8: 78-86. July 1948. 86 W12  
English summary.
- 25566 SNELL, K. Das kartoffelbuch. Berlin, Landbau-Verlag, 1948. 87 p. 75 Sn2Ka
- 25567 SNYDER, L. C., and ROSE, R. C. Vegetable plant growing reminders. *Minn. U. Agr. Ext. Pam.* 146, rev., 5 p. June 1948. 275.29 M66P
- 25568 SØRENSEN, H. Variety trials with winter red cabbage. (In Danish.) *Tidsskr. for Planteavl* 52: 223-235. 1948. 11 T439
- 25569 STEIN, H. Zwiebeln das ganze jahr; praktische anbauanweisung für alle zwiebelarten, anbautabellen, zwiebelrezepte. Ed. 3, rev. Berlin, Siebeneicher, 1947. 48 p. 91.44 St3
- 25570 SVENSSON, V. Weibull's Iduna/48; new greenhouse tomato from Weibullsholm's Plant Breeding Station. (In Swedish.) *Weibulls Allehanda* 8(3): 1-4. 1948. 80 W42
- 25571 TERRY, H. B. Cauliflower and broccoli. *Farming So. Africa* 23: 665-667. Oct. 1948. 24 So842  
Culture.
- 25572 TIEDJENS, V. A. Let's bring potato production back. *South. Planter* 110: 14-15. Jan. 1949. 6 So89  
In Virginia.
- 25573 VARGAS ORJUELA, V. En torno al cultivo de la papa. *Agr. Trop.* 4(12): 9-12. Dec. 15, 1948. 26 Ag8
- 25574 WALKER, W. F., and ALLEN, A. G. Glass-house tomato production; trials of heating systems and blossom-setting hormone sprays. *Tasmanian J. Agr.* 19: 212-223. Nov. 1948. 23 T182T
- 25575 WELLENSIEK, S. J. Vegetative reproduction as part of breeding-methods, especially with vegetables. (In Dutch.) *Inst. v. de Veredeling van Tuinbouwgewassen. Meded.* 8: 57-71. July 1948. 86 W12  
English summary.
- 25576 WESTERMANN, W. Gemüsesamen-vermehrungsanbau. Luneburg, Kinau, 1947. 51 p. (Kurz-schriften für Landwirtschaft, Gartenbau und Siedlung. 13) 91 W52
- 25577 WOLF, G. Gemüsesamenbau im bäuerlichen betrieb. Berlin, Deutscher Zentralverlag, 1947. 31 p. (Der Bauernfreund. 23) 91 W83
- 25578 WYNN, J. Preparing for exhibition potatoes. *Pop. Gard.* 50: 397. Dec. 18, 1948. 80 G1622
- 25579 WYNN, J. Quality in exhibition vegetables. *Pop. Gard.* 50: 377. Dec. 4, 1948. 80 G1622

## WEEDS AND POISONOUS PLANTS

- 25580 ÅBERG, E. Weed control in fiber flax. (In Swedish.) *Lin, Dansk-Svensk Hörtidsskr.* 2: 191-195. Nov. 1948. 73.18 L63  
English abstract, p. 202.
- 25581 ARNABOLDI, R. La lucha contra las malezas. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 244: 7-8. Nov. 11, 1948. 9.9 G15B
- 25582 BALL, C. E. Kill those sprouts for good. *South. Agr.* 77, i. e., 78(11): 24. Nov. 1948. 6 So83  
Control of persimmon and sassafras sprouts with ammate and 2,4-D.
- 25583 BEELER, M. N. Clean corn in the bottoms. *Capper's Farmer* 60: 13, 65. Jan. 1949. 6 M693  
Weed control with 2,4-D.
- 25584 BOOTH, W. E. The effect of grass competition on the growth and reproduction of big sagebrush, *Artemisia tridentata* Nutt. *Mont. Acad. Sci. Proc.* 1947-48(7-8): 23-25. 1948. 500 M762
- 25585 BOSWORTH, H. N. The chemical control of plant growth. *Arborist's News* 13: 108-110. Dec. 1948. 99.8 Ar14  
In highway maintenance.



- 25586 BROWN, J. F. Control of blackberry and gorse with hormone sprays. *New Zeal. J. Agr.* 77: 503-504. Nov. 1948. 23 N48J  
European blackberry.
- 25587 CAÑIZO, J. DEL. Plagas de la alfalfa: la cuscuta. *Ganadería [Madrid]* 6: 399-401. Aug. 1948. 49 G15
- 25588 COLLMAN, H. J. Now weedless grain and pastures. *Successful Farming* 47: 39, 113. Jan. 1949.
- 25589 CUNNINGHAM, G. How to get results with 2,4-D this year. *Iowa Farm & Home Register* 1949: 12-H-13-H. Jan. 2, 1949. 6 Io94  
Weed control
- 25590 CUNNINGHAM, I. J. Tall fescue grass is poison for cattle. *New Zeal. J. Agr.* 77: 519. Nov. 1948. 23 N48J
- 25591 DANIELSON, L. L. Weeding Irish Cobbler potatoes with 2, 4-D. *Amer. Potato J.* 26: 1-7. Jan. 1949. 75.8 P842
- 25592 DEARBORN, C. H. Wild mustard control in canning peas. *Farm Res. [N. Y. State Sta.]* 15: 3. Jan. 1949. 100 N48A
- 25593 DEARING, G. L. 100 farms to make tests of chemical weed control. *Cotton Digest* 21(18): 56. Jan. 22, 1949. 286.82 C822
- 25594 DERTEANO URRUTIA, C. Moderna técnica de defensa agrícola; el control químico de las malas yerbas. *Vida Agr.* 25: 935, 937, 939, 941, 943-944. Nov. 1948. 9.8 V66
- 25595 DIEGO, A. I. DE. Sobre la toxicidad del *Cynodon dactylon*. *Buenos Aires. Dir. Med. Vet. B.* 5(23/26): 46-50. 1948. 41.9 B865
- 25596 DIONNE, G. Le gui est malheureusement une plante parasite de nos arbres. *Rustica* 22: 15. Jan. 2, 1949. 14 R92
- 25597 DOW CHEMICAL COMPANY. Dow recommendations for weed control in corn. *Midland, Mich.,* 1948. sheet. 79 D75
- 25598 ECKOFF, G. Erhöhung und sicherung der ernten durch unkrautfreie felder. *Neue Mitt. f. die Landw.* 3: 117-118. Apr. 21, 1948. 18 N39
- 25599 EVANS, L. S., MITCHELL, J. W., and HEINEN, R. W. Using 2,4-D safely. *U. S. D. A. Farmers' B.* 2005, 10 p. Nov. 1948. 1 Ag84F
- 25600 FARWELL, F. E. Recommendations of the Johnson grass control committee. *Sugar B.* 27: 128, 138. Feb. 1, 1949. 65.9 Am32
- 25601 FARWELL, F. E. Use of sheep to control Johnson grass. *Sugar B.* 27: 134-136. Feb. 1, 1949. 65.9 Am32
- 25602 FENTON, E. W. Some notes on *Holcus mollis* L. *Edinb. and East Scot. Col. Agr. Misc.* P. 21: 290-292. 1948. 103 Ed4M
- 25603 FERAT, A. Essais d'amélioration des prairies par la destruction des mauvaises herbes. *Potasse* 22: 187-188. Nov. 1948. 57.8 P84
- 25604 FOSTER, R. L. Spraying makes ranches bigger; grass carries 75 per cent more cattle after 2,4-D clears land of sagebrush. *Capper's Farmer* 60: 11, 59. Jan. 1949. 6 M693
- 25605 FREED, V. H., WARREN, R., and CLARK, R. R. Preliminary information on chemical weed control in strawberries. *Oreg. State Col. Ext. C.* 526, 3 p. Jan. 1949. 275.29 Or32C
- 25606 FREED, V. H., and BIERMAN, H. E. A preliminary report on experiments to control quackgrass. *Oreg. Agr. Expt. Sta. C. Inform.* 445, 3 p. Dec. 1948. 100 Or3C
- 25607 GARDNER, C. Air attack subdues brush on pastures. *Ranchman* 8(8): 18-19. Jan. 1949. 49 R15  
Spraying 2,4-D from aircraft.
- 25608 GODCHAUX, L., II. Use of chlorate for Johnson grass control. *Sugar B.* 27: 130-133. Feb. 1, 1949. 65.9 Am32
- 25609 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Suppression of weeds. *Gt. Brit. Min. Agr. and Fisheries. Adv. Leaflet* 52, 5 p. Oct. 1948. 10 G79La
- 25610 GUYOT, R. A. Malezas en los alfalfares del valle superior de Río Negro. *Campo y Suelo Argentino* 32(386): 29. Dec. 1948. 9 C15
- 25611 HÄNNI, H. Fortschritte in der chemischen unkrautbekämpfung. *Schweiz. Landw. Monatsh.* 26: 414-429. Dec. 20, 1948. 17 Sch93
- 25612 HAUKELAND, H. Spraying of weeds in the carrot field; weed control in Norway. (In Danish.) *Gart.-Tid.* 64: 608-609. Dec. 15, 1948. 80 G192
- 25613 HERVEY, D. F. Kill that sage! *Rec. Stockman, Ann. Ed.* 59(52): 164, 165, 166, 167. Dec. 23, 1948. 49 D43
- 25614 HIGGINS, F. H. California increases 2,4-D use. *Rice J.* 52: 11-13. Jan. 1949. 59.8 R36
- 25615 HOEHNE, F. C. Binder of trees (*Cuscuta*) [C. suaveolens]. (In Portuguese.) *Chacaras e Quintais* 79: 49-50. Jan. 15, 1949. 9.2 C34
- 25616 HOLMES, E. Up-to-date weed-killing. *Fert. Feed. Stuffs & Farm Supplies J.* 35: 9-11, 13-15. Jan. 12, 1949. 57.8 F413
- 25617 INMAN, W. 2,4-D rules for '49. *Wallaces' Farmer & Iowa Homestead* 74: 48. Jan. 15, 1949. 6 W15  
Weed killing recommendations.
- 25618 JENKINS, J. M., JR. Pre-emergence spray is bulb boon. *South. Seedsman* 12(2): 30, 43. Feb. 1949. 61.8 So8
- 25619 JOHNSON, A. Spraying tests with selective hormone-type weedicides. *Agr. Gaz. N. S. Wales* 59: 581-583. Nov. 1, 1948. 23 N472  
Methoxone and 2,4-D preparations.
- 25620 LEE, A. M. Strathmore weed. *New Zeal. J. Agr.* 75: 192. Aug. 15, 1947. 23 N48J
- 25621 LESTER, J. State tests indicate when and how much 2,4-D to apply for best weed control results. *Mont. Farmer-Stockman* 36(10): 12, 14. Jan. 15, 1949. 6 M764
- 25622 LYNCH, P. B. Chemical methods of weed control; recommendations of New Zealand research workers. *New Zeal. J. Agr.* 77: 437-444. Nov. 1948. 23 N48J
- 25623 MCCALL, G. L., and ZAHNLEY, J. W. Control of noxious perennial grasses with trichloracetates. *Kans. Agr. Expt. Sta. C.* 255, 8 p. Jan. 1949. 100 K13S
- 25624 MARTIN-LEAKE, H. A problem of weed control. *Internatl. Sugar J.* 51: 14-15. Jan. 1949. 65.8 In8
- 25625 MIDDLETON, G. K., HEBERT, T. T., and KLINGMAN, G. C. How do oat varieties react to 2,4-D? *Crops & Soils* 1(3): 7-9. Dec. 1948. 6 W55
- 25626 MOORE, H. I., and BURR, S. The control of rushes on newly reseeded land in Yorkshire. *Brit. Grassland Soc. J.* 3: 283-290. Dec. 1948. 60.19 B773
- 25627 ORCHARD, H. E. Weeds of South Australia; hemlock (*Conium maculatum*, L.). *So. Austral. Dept. Agr. J.* 52: 170-172. Nov. 1948. 23 So84
- 25628 PARODI, L. R. Por que deben destruirse las malezas. *Bolsa de Cereales, Buenos Aires. Rev.* 35(1868): 38, 41-44. Oct. 14, 1948. 287 B866
- 25629 PEREA, R. Control químico de las malezas con Mata-Yerba 40. *Campo [Tacuba]* 16(682): 22. Dec. 31, 1948. 8 C157
- 25630 QUIN, J. I. The control of "geeldikkop" in small stock. *Farming So. Africa* 23: 677-679, 702. Oct. 1948. 24 So842  
Sheep poisoning caused by grazing on wilted *Tribulus*.
- 25631 SEELY, C. I., KLAGES, K. H., and SCHAFFER, E. G. Controlling perennial weeds with sodium chlorate, carbon bisulfide, and borax. *Idaho. Agr. Expt. Sta. B.* 271, 22 p. Nov. 1948. 100 Id1
- 25632 STAMPER, E. R., and others. 2,4-D and Johnson grass seedlings. *Sugar B.* 27: 129, 137. Feb. 1, 1949. 65.9 Am32  
E. S. Hagood, H. T. Barr, and S. J. P. Chilton, joint authors.
- 25633 TOD, H. A method of weed control for new rock gardens. *Alpine Gard. Soc. Q. B.* 16: 321-323. Dec. 1948. 84 AL6
- 25634 TOURTE, R. Destruction de l'*Imperata cylindrica*. *Fruits d'Outre Mer* 3: 348. Oct. 1948. 80 F9492
- 25635 WINDERS, C. W. "Hormone" weedkillers. *Queensland Agr. J.* 67: 195-199. Oct. 1948. 23 Q33
- 25636 YOUNG, V. A., ANDERWALD, F. R., and McCULLY, W. G. Brush problems on Texas Ranges. *Tex. Agr. Expt. Sta. Misc. P.* 21, 19 p. Oct. 1948. 100 T31M

#### MISCELLANEOUS ECONOMIC PLANTS (Drug, Dye, Rubber, Etc.)

- 25637 ALI KHAN, M. S. Some important nectariferous plants and pollen sources of Bhopal State, Central India. *Indian Bee J.* 10: 107-108. Nov./Dec. 1948. 424.8 In2



- 25638 BAALEN, T. VAN. Hevea pruning. (In Dutch.) Bergcultures 17: 131, 133. Nov. 16, 1948. 22.5 B45
- 25639 BANN, E. A. Nectar secretion. Beekeeping 14: 255. Dec. 1948. 424.8 B3991  
In flowers of tobacco plant.
- 25640 BERNETT, A. W. Where is our white honey going? Beekeepers' Mag. 11(12): 15-16. Dec. 1948. 424.8 M58  
Disappearance of some honey plants.
- 25641 BONDAR, G. Latex-producing trees in Bahia. (In Portuguese.) Rev. de Quim. Indus. 17(199): 21-24. Nov. 1948. 385 R324
- 25642 BOURIQUET, G. La germination des graines de vanillier. Agron. Trop. 3: 498-499. Sept./Oct. 1948. 26 Ag86
- 25643 BOUVIER, R. Le caoutchouc, brillante et dramatique histoire de l'Hévéa. Paris, Flammarion, 1947. 295 p. (Bibliothèque de Philosophie Scientifique.) 78 B66
- 25644 BRACHO PEREZ, P. La guadua. Rev. Nac. de Agr. [Bogotá] 41(501/502): 37. Jan./Feb. 1947. 9.4 R32  
A variety of bamboo.
- 25645 BULLIS, D. E., PRICE, F. E., and KIRK, D. E. Relationship of maturing and weathering to yield and quality of peppermint oil. Oreg. Agr. Ext. Sta. B. 458, 14 p. Aug. 1948. 100 Or3
- 25646 BURG, J. P. L. L. A. Marketing prospects for Dutch herbs. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 701-702. Nov. 1948. 86 N384
- 25647 BURKS, A. J. Medicine plants of the jungle. Sci. Digest 25: 83-86. Jan. 1949. 470 Sci27  
Brazil.
- 25648 CAMARGO, R. DE. Rebuilding coffee culture in São Paulo. I-II. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 23: 319-322, 468-474. May, July 1948. 68.29 Sa63
- 25649 CEPPI, R. G. El piretro. Campo y Suelo Argentino 32(385): 28-30, 42. Nov. 1948. 9 C15
- 25650 CHAKRAVARTI, M. D., and TAYAL, J. N. Preliminary examination of the fruits of Terminalia bellerica Roxb. Sci. and Cult. 13: 122. Sept. 1947. 475 Sci24
- 25651 CHILDERS, N. F., ROBLES, P. S., and LOUSTA-LOT, A. J. Bay oil production in Puerto Rico. Puerto Rico. Fed. Expt. Sta. Mayaguez. C. 30, 32 p. Ref. Dec. 1948. 1 Ex65  
Includes culture of the bayrumtree.
- 25652 CHOPRA, R. N., and others. Scope for the cultivation of medicinal plants in India. J. Sci. & Indus. Res. 7: 527-534. (To be cont.) Dec. 1948. 475 J82  
L. D. Kapoor, K. L. Handa, I. C. Chopra, and S. L. Nayar, joint authors.
- 25653 CHOPRA, R. N., and others. Vegetable drug resources of Jammu and Kashmir. 1. J. Sci. & Indus. Res. 6: 480-484. Ref. Dec. 1947. 47.5 J82
- 25654 CLAUDE. Nos sources mellifères - le buis (Buxus sempervirens). Belg. Apic. 12: 203. Nov. 1948. 424.8 B41
- 25655 CONTRERAS C., M. Fomento del cacaoal. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 39(181): 9-12. Nov./Dec. 1948. 8 R323
- 25656 CRANMER, D. Introduction to herb growing. Amateur Gard. 65(3371): 13. Dec. 21, 1948. 80 Am13
- 25657 FERRER DELGADO, R. La propagación del bambú por esquejes. Rev. de Agr. de Puerto Rico 39(1): 3-7. Jan./June 1948. 8 R325
- 25658 GARBER, K. Über den anbau von Conringia orientalis (L.) Andr. (Dum.) als ölpflanze. Bot. Oecon. 1: 38-48. Ref. July 1948. 450 B6528  
English, French, and Russian summaries.
- 25659 GOMES, P. Coconut trees of Bahia. (In Portuguese.) Chacaras e Quintais 79: 59-60. Jan. 15, 1949. 9.2 C34
- 25660 GONZALEZ, C., and SALINAS, J. Anotaciones sobre el cultivo del cacao. Rev. Nac. de Agr. [Bogotá] 41(501/502): 23-33. Jan./Feb. 1947. 9.4 R32
- 25661 GOURD SOCIETY OF AMERICA. Tenth anniversary, 1937-1947. Boston, 1948. 48 p. 91.51 G74
- 25662 GRANLUND, R. Three good honey plants. (In Swedish.) Bitidningen 47: 335-336. Nov. 1948. 424.8 B54
- 25663 GUALBA, C. El kapok o falso algodón. Cult. Mod. 30: 456. Dec. 1947. 15 C89
- 25664 HEIT, C. E. Laboratory germination results with herb and drug seed. Assoc. Off. Seed Anal. Proc. 38: 58-62. 1948. 61.9 As7
- 25665 HENRIOT. Un essai de colza très mellifère. Gaz. Apic. 502: 236-237. Sept. 1948. 424.8 G25
- 25666 HOERNER, G. R. Foreign varieties of hops. Hopper 5(9): 5-7. Dec. 1948. 70.8 H77
- 25667 HOWES, F. N. Vegetable sources of edible oils. Research 1: 678-684. Ref. Dec. 1948. 472 R31
- 25668 JACKSON, P. Scottish seaweed resources. Scot. Geog. Mag. 64: 136-144. Dec. 1948. 472 Sci8
- 25669 KAMPFRAATH, A. A. Rehabilitation of the tea culture (1). (In Dutch.) Bergcultures 17: 146-147, 149, 151, 153, 155, 156. Dec. 1, 1948. 22.5 B45  
In Netherlands Indies.
- 25670 KESEL, H. Was wussten die alten von unseren heilkräutern? Natur u. Nahr. 2(19/20): 20-21. Oct. 1948. 80 N218B
- 25671 LEITFADEN für 42 wildwachsende gemüse, salate und würzkräuter. Stuttgart, Angerer, 1947. Folder. (Heil- u. Nährkräfte aus Wald u. Flur) 452.8 L53
- 25672 LOUVRIER, R. Comment lever une carte botanique à l'usage des apiculteurs. Gaz. Apic. 503: 259-261. Oct. 1948. 424.8 G25
- 25673 MARKELL, E. L. New uses for hops. Hopper 5(9): 2-3. Dec. 1948. 70.8 H77
- 25674 MAYA. Industrial cultivation of drug plants. (In Italian.) Riv. Ital. Essenze, Profumi, Piante Off., Olii Veg., Saponi 30: 464-465. Nov. 15, 1948. 308.8 R52
- 25675 MIDDLE AMERICA INFORMATION BUR. Middle America and cocoa. New York, 1947? 7 p. 68.3 M58
- 25676 MOLFINO, J. F. Convolvulaceas medicinales. Chacra 19(219): 74-75. Jan. 1949. 9 C34
- 25677 MOLFINO, J. F. Piperaceas medicinales. Chacra 19(218): 86-87. Dec. 1948. 9 C34
- 25678 MONTANARI, V. The culture of the olive and oil plants in Venetia. (In Italian.) Agr. delle Venezie 2: 389-402. May/June 1948. 16 Ag826
- 25679 NESTLER, R. B. Acceptance of seeds of four legumes by the bobwhite quail. J. Wildlife Mangt. 13(1): 143-144. Jan. 1949. 410 J827
- 25680 OLIN, A. Hop culture. (Excerpts.) (In Swedish.) Lantmannen 33: 92. Feb. 5, 1949. 11 L234
- 25681 ORDET, G. S. The aguinaldos [Ipomoea spp.], major bee plants of Cuba. Amer. Bee J. 89: 72-73. Feb. 1949. 424.8 Am3
- 25682 PACHECO ACUNA, C. Instalacion de almácigos de te. Chacra 19(218): 92-93. Dec. 1948. 9 C34
- 25683 PELLETT, F. C. Jerusalem sage, a bee plant of easy culture suited to the ornamental garden or wasteland planting. Amer. Bee J. 89(1): 24-25. Jan. 1949. 424.8 Am3
- 25684 PESTONIT, S. El cocotero. Control de Plagas 11: 181, 183-185. Jan. 1949. 464.8 C76
- 25685 POURPE, A. Où en est la question des pépinières d'oliviers? Réveil Agr. 58(2546): 1. Jan. 1, 1949. 14 R322
- 25686 POURPE, A. Le tailleur d'oliviers. Bouches du Rhone Agr. 22(994): 14. Jan. 15, 1949. 14 B662
- 25687 PROCHAZKA T., G. La sombra en el cultivo del cafeto. Agronomía [Lima] 13(54): 39-43. 1948. 9.8 Ag83
- 25688 PUGSLEY, A. T., and WINTER, G. Safflower: a potential oil crop for paint. Maribyrnong, Victoria, 1947. 57 p. (Australia. Munitions Sup. Labs. Rpt. 171) 77 P96
- 25689 PURDON, I. J. Growing culinary mustard in Canterbury. New Zeal. J. Agr. 77: 479-480. Nov. 1948. 23 N48J
- 25690 QAZILBASH, N. A. Some observations on Indian Ephedra. Q. J. Pharm. & Pharmacol. 21: 475-487. Oct./Dec. 1948. 396.8 Q2
- 25691 ROHDE, E. S. Grow herbs for greater variety. Smallholder 80(2023): 7. Jan. 7, 1949. 10 Sm1
- 25692 ROSSE, S. H. Forgotten herbs. House & Gard. [Greenwich, Conn.] 95(3): 156-157. Mar. 1949. 80 H81
- 25693 ROUSSY, L. Les joyaux de la flore mellifère: le Camélia blanc. Gaz. Apic. 502: 224-225. Sept. 1948. 424.8 G25
- 25694 ROUSSY, L. Les joyaux de la flore mellifère: le réséda odorant. Gaz. Apic. 503: 256. Oct. 1948. 424.8 G25



- 25695 RYMER, W. Lavender grows in Nova Scotia. *Canad. Florist* 44(2): 22. Jan. 15, 1949. 80 C163
- 25696 SIEVERS, A. F., and HIGGBEE, E. C. Plantas medicinales de regiones tropicales y subtropicales. *Bolsa de Com., Rosario. Rev.* 36(887): 3-8, 10-16. (To be cont.) Dec. 31, 1948. 287 R71
- 25697 SILVA BARRIOS, F. A. El cultivo del ajo en las quintas de Mercedes (Provincia de Buenos Aires). *Campo y Suelo Argentino* 32(385): 39. Nov. 1948. 9 C15
- 25698 STAHEL, G. De herleving der cacao-cultuur [Revival of cacao culture]. n. p., 1947. 12 p. 68.3 St1H  
Dutch Guiana.
- 25699 TESTA, E. Nomadism in spread of coffee culture. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 23: 444-446. July 1948. 68.29 Sa63
- 25700 TESTA, E. The three capital problems of coffee. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 23: 246-248. Apr. 1948. 68.29 Sa63
- 25701 TURPIN, S. B. Herbs for three salad gardens. *Home Gard.* 13: 11-14. Jan. 1949. 80 H756
- 25702 UYLDERT, M. De taal der kruiden [The language of the herbs]. Amsterdam, Engelhard, Van Embden, 1948. 272 p. 452.8 Uy6
- 25703 VOELCKER, O. J. West African Cacao Research Institute: field experiments. *Empire J. Expt. Agr.* 16: 241-248. Oct. 1948. 10 Em7
- 25704 VOLLEMA, J. S. Preliminary results from the rubber test garden 1935, 1936 and 1937 (Experimental Garden Tjiomas). (In Dutch.) *Bergcultures* 17: 86-87, 89, 91, 93, 95. Oct. 16, 1948. 22.5 B45
- 25705 WEBSTER, C. C. Report on the preliminary reconnaissance of the possibility of cultivation of tung oil trees in the eastern districts of Southern Rhodesia. *Rhodesia Agr. J.* 45: 319-329. July/Aug. 1948. 24 R34
- 25706 WEBSTER, C. C. Tung nursery work. *Nyasaland Agr. Q. J.* 7: 83-92. Oct. 1948. 24 N983
- 25707 WEST AFRICAN CACAO RESEARCH INSTITUTE. Annual report, 1945/46. London, 1947. 61 p. 68.39 T12A
- 25708 WHITLOW, S. Growing tung nuts. *Farm & Ranch Rev.* 68: 36-37. Jan. 1949. 6 T31
- 25709 ZANDER, R. "Reizende" pflanzen. Aphrodisiaka und antaphrodisiaka aus dem pflanzenreich. *Unser Hof* 1948: 71-72. 18 Un72
- 25720 FLEISCHHAUER, E. Die wasserverhältnisse des bodens. *Kosmos* 44: 104-106. Apr./May 1948. 474 K842
- 25721 GEOGHEGAN, M. J., and BRIAN, R. C. Aggregate formation in soil. 1-2. *Biochem. J.* 43: 5-14. Ref. 1948. 382 B52
- 25722 GEOGHEGAN, M. J., and ARMITAGE, E. R. Influence of some lipoidal substances on aggregate formation in soils. *Nature [London]* 163: 29-30. Jan. 1, 1949. 472 N21
- 25723 HAHNE, H. A. Ewiger bodenfrost. *Natur u. Tech.* 2: 303, 323. Oct. 1, 1948. 475 N215
- 25724 INDIA. CENTRAL BOARD OF IRRIGATION. Standards for testing soils. *India. Cent. Bd. Irrig. P.* 42, 195 p. Aug. 1948. 55.9 In222
- 25725 LARRARD, J. DE. Estabilidad de los suelos y tendencias actuales en Francia para los revestimiento de caminos. *Soc. Cient. Argentina. An.* 146: 262-285. Oct. 1948. 516 So1
- 25726 MEXICO. SECRETARIA DE RECURSOS HIDRAULICOS. DEPARTAMENTO DE INGENIERIA EXPERIMENTAL. Mecánica de suelos; instructivo para ensayo de suelos. *Ingen. Hidrául. en Méx.* 2(1, sup.), 177 p. 1948. 280.8 In43  
Summaries in Portuguese and English.
- 25727 OLSEN, M. Problems in regard to soil moisture. (In Danish.) *Hedeselsk. Tidsskr.* 69: 250-257. 1948. 11 H35
- 25728 RIEDEL, C. M. Latest developments in soil solidification. *Midwest Engin.* 1(6): 6-8. Feb. 1949. 290.8 M58
- 25729 ROUX, J. Après vingt ans, où en est l'hydrogène? *Rev. Agr. de l'Afrique du Nord* 46: 620. Dec. 10, 1948. 80 R326
- 25730 ROWLES, W. Physical properties related to structure of Ste. Rosalie clay and their seasonal variation. *Sci. Agr.* 28: 558-573. Ref. Dec. 1948. 7 Sci2

## Soil Chemistry and Mineralogy

- 25731 ALEIXANDRE FERRANDIS, V., and GARCIA VICENTE, Y. J. Estudio físico químico de algunos silico-aluminatos artificiales. *Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 7: 135-161. Ref. Jan./Apr. 1948. 506 Sp12  
French and English summaries.

- 25732 ALIA MEDINA, M., and ALVIRA ALVIRA, T. Estudio geológico-edáfico de unas muestras de suelo salino de la sebja de Ougranat (Sahara Español). *Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 7: 123-133. Jan./Apr. 1948. 506 Sp12  
French and English summaries.

- 25733 BEVAN, A. Modern clay investigations. *Sci. Monthly* 67: 443-444. Dec. 1948. 470 Sci23

- 25734 BISHOP, R. F., and ATKINSON, H. J. Soil colloids. V. Effect of field applications of lime and manure. *Sci. Agr.* 28: 577-583. Ref. Dec. 1948. 7 Sci2

- 25735 BURRIEL, F., and HERNANDO, V. El fosforo en los suelos. II. Sobre las interferencias del hierro y otros elementos en la valoración colorimétrica del fosforo. *Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 1: 163-185. Ref. Jan./Apr. 1948. 506 Sp12  
English and German summaries.

- 25736 CAROLAN, R. J. Influence of heating on the pH of soil suspensions. *Soil Sci.* 66: 417-420. Dec. 1948. 56.8 So3

- 25737 CHALLEROUD, E. Le dosage de l'acidité hydrolytique des sols. *Inform. Maroc.* 403: 1. Oct. 2, 1948. 281.8 In3

- 25738 COPPENET, M., and BOISCHOT, P. Fixation de l'ion phosphorique sur le calcaire. *Paris. Acad. des Sci. Compt. Rend.* 227: 1166-1168. Nov. 29, 1948. 505 P21

- 25739 DEGER, E. Análisis de las tierras para mejorar las cosechas. *Rev. de Agr. [San José]* 20(12): 487-488. Dec. 1948. 8 Es1

- 25740 DRAGHETTI, A. To increase farm production it is first necessary to know the soil. (In Italian.) *Alimenti* 4: 183-187. Sept./Oct. 1948. 389.8 AL44

- 25741 HANNA, W. J., and REED, J. F. A comparison of ammonium acetate and buffered barium chloride methods for determining cation-exchange properties of limed soils. *Soil Sci.* 66: 447-458. Dec. 1948. 56.8 So3

## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 25710 EHRENBERG, P. Allgemeine und besondere bodenkunde für den akademisch gebildeten forstmann. Hannover, Schaper, 1947. 156 p. 56.24 Eh8

- 25711 HÉNIN, S., and BÉTRÉMIEUX, R. Essai de pédologie expérimentale. *Paris. Acad. des Sci. Compt. Rend.* 227: 1393-1395. Dec. 20, 1948. 505 P21

- 25712 MACAULAY INSTITUTE FOR SOIL RESEARCH. Collected papers, 1938-48. v. 2. Aberdeen, Scotland, 1948. 56.9 M11

- 25713 PRINCIPI, P. Pedologic characteristics of the Argentine Republic. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 41: 14-21. Jan./Mar. 1947. 26 Ag82

- 25714 SMITH, R. Nomenclature and soil science. *Austral. Inst. Agr. Sci. J.* 14: 104-106. Sept. 1948. 23 Au74

## Soil Physics

- 25715 BROWNING, G. M. Soil that breathes is soil that produces. *Mont. Farmer-Stockman* 36(11): 20-21. Feb. 1, 1949. 6 M764

- 25716 CHILDS, E. C., and GEORGE, N. C. Soil geometry and soil-water equilibria. *Faraday Soc. Discuss.* 1948(3): 78-85. 382 F22D

- 25717 COLEMAN, J. D. Soil thermodynamics and road engineering. *Nature [London]* 163: 143-145. Jan. 22, 1949. 472 N21

- 25718 EDELMAN, C. H. On loamy soil. (In Dutch.) *Netherlands. Landbouvoorlichtingsdienst. Maandbl.* 5: 571-575. Dec. 1948. 12 N383M

- 25719 EVANS, I., and SHERRATT, G. G. A simple and convenient instrument for measuring the shearing resistance of clay soils. *J. Sci. Instruments* 25: 411-414. Dec. 1948. 297.8 J82



25742 HAUSER, E. A. Colloid chemistry of soils. *Technion Ybk.* 1948: 115-116. 475 T222

25743 HESTER, J. B. The fate of phosphate soil supplements. *Amer. Fert.* 109(13): 7-9, 24-25. (To be cont.) Ref. Dec. 25, 1948. 57.8 Am3

25744 HOYOS DE CASTRO, A., and GONZALEZ GARCIA, F. Determinaciones analíticas en la turba de El Padul (Granada). Spain. *Inst. Españ. de Edafología, Ecol. y Fisiol. Veg.* An. 7: 83-122. Ref. Jan./Apr. 1948 506 Sp12

French and English summaries.

25745 JANSSON, S. L. Lime condition of soil and humus building; an interesting and important reciprocal action. (In Swedish.) *Lantmannen* 32: 759-760. Nov. 13, 1948. 11 L234

25746 KANDIAH, S. The fixation and availability of phosphates in some Ceylon soils. *Trop. Agr. [Ceylon]* 104: 17-26. Ref. Jan./Mar. 1948. 26 T751

25747 KELLEY, W. P. Cation exchange in soils. New York, Reinhold, 1948. 144 p. (Amer. Chem. Soc. Monog. Ser. 109) 56.4 K28

25748 KUHN, L. Leiden unsere böden mangel an spurenelementen? *Saat u. Ernte* 3(12): 6. Dec. 1948. 18 Sa12

Germany.

25749 LEES, H. The copper-retaining powers of different cacao soils. *Biochem. J.* 43: 624-626. 1948. 382 B52

25750 MARTIN RETORTILLO, N. Contribución al estudio de las turbas españolas. Spain. *Inst. Españ. de Edafología, Ecol. y Fisiol. Veg.* An. 7: 3-81. Ref. Jan./Apr. 1948. 506 Sp12

French and German summaries.

25751 MEHLICH, A. Determination of cation- and anion-exchange properties of soils. *Soil Sci.* 66: 429-445. Ref. Dec. 1948. 56.8 So3

25752 PERRIN, D. D. The determination of molybdenum in soils. New Zeal. Dept. Agr. Anim. Res. Div. P. 34: 183-187. 1947. 49.9 N482P

25753 STEENBJERG, F. Chemical soil analysis during 25 years. (In Danish.) *Tolvmandsbladet* 20: 286-288. Dec. 1948. 11 T58

25754 WALKER, R. B. Molybdenum deficiency in serpentine barren soils. *Science* 108: 473-475. Oct. 29, 1948. 470 Sci2

#### Soil Biology

25755 ALBRECHT, W. A. Soil microbes get their food first. *Victory Farm Forum* 33: 5-6. Dec. 1948. 281.8 F226

25756 ERDMAN, L. W. Legume inoculation; what it is, what it does. *U. S. D. A. Farmer's B.* 2003, 20 p. Dec. 1948. 1 Ag84F

25757 EVANS, A. C., and GUILD, W. J. M. Studies on the relationships between earthworms and soil fertility IV-V. *Ann. Appl. Biol.* 35: 471-493. Ref. Dec. 1948. 442.8 An72

IV. On the life cycles of some British Lumbricidae, p. 471-484. V. Field populations, p. 485-493.

25758 FEDOROV, M. V. Biologicheskaiâ fiksa tsiiâ azota atmosfery [Biological fixation of atmospheric nitrogen]. Moskva, Sel'khozgiz, 1948. 442 p. 57.52 F31

25759 HOPP, H., and SLATER, C. S. Influence of earthworms on soil productivity. *Soil Sci.* 66: 421-428. Dec. 1948. 56.8 So3

25760 HOPP, H. What is the truth about earthworms? *Crops & Soils* 1(3): 12-13. Dec. 1948. 6 W55

25761 KERNKAMP, M. F. Chemical treatment of soybean seed in relation to nodulation by nodule bacteria. *Phytopathology* 38: 955-959. Dec. 1948. 464.8 P56

25762 LAUXMANN-KINZELMANN, L. Vom regenwurm. *Saat u. Ernte* 3(11): 10. Nov. 1948. 18 Sa12

25763 MOODIE, C. D. Inoculants for legumes. *Wash. Agr. Expt. Sta. Pop. B.* 191, 11 p. Sept. 1948. 100 W27E

25764 MURPHY, H. F. Some data on *Cassia tora*. *Okl. Acad. Sci. Proc.* 28: 57-58. 1948. 500 Ok42

Nitrogen fixation.

25765 MYERS, J. The role of algae in the operation of sewage lagoons. (Abs.) *Amer. J. Bot.* 35: 801. Dec. 1948. 450 Am36

25766 NORMAN, A. G. Soil population studies. (Abs.) *Amer. J. Bot.* 35: 801-802. Dec. 1948. 450 Am36

25767 ROMANINI, A. Let us fertilize with nitrogen from the air. (In Italian.) *Avvenire Agr.* 56: 277-278. Nov. 1948. 16 Av9

25768 SCHANDERL, H. Botanische bakteriologie und stickstoffhaushalt der pflanzen auf neuer grundlage. Stuttgart, Ulmer, 1947. 198 p. 463 Sch13

25769 SHRIKHANDE, J. G., and PATHAK, A. N. Earthworms and insects in relation to soil fertility. *Cur. Sci.* 17: 327-328. Nov. 1948. 475 Sci23

25770 SMITH, N. R. Microbiology of soil. *Ann. Rev. Microbiol.* 2: 453-484. Ref. 1948. 448.3 An72

25771 THOM, C. Soil molds. (Abs.) *Amer. J. Bot.* 35: 803-804. Dec. 1948. 450 Am36

25772 THORP, J. Effects of certain animals that live in soils. *Sci. Monthly* 68: 180-191. Mar. 1949. 470 Sci23

25773 VIRTANEN, A. I. Biological nitrogen fixation. *Ann. Rev. Microbiol.* 2: 485-506. Ref. 1948. 448.3 An72

#### Soil-Plant-Animal Relationships

25774 ALBRECHT, W. A. Diverse benefits of soil treatments; they extend to fecundity in farm animals and to weed control in pastures and meadows. *Shorthorn World* 33(20): 32-33. Jan. 25, 1949. 43.8 Sh8

25775 BOAS. Biologisch-dynamisch. *Land, Wald u. Garten* 3: 49-51. Mar. 1948. 18 L22

25776 BOAS. Noch einmal biologisch-dynamisch. *Land, Wald u. Garten* 3: 133-134. June 1948. 18 L22

25777 CHILDERS, L. F. Lime in relation to the honeyflow. *Amer. Bee J.* 89(1): 18-21. Jan. 1949. 424.8 Am3

25778 COOPER, R. The humus controversy. *Rev. River Plate* 104(2976): 17-18; 105(2978): 16-17. Dec. 24, 1948, Jan. 7, 1949. 286.8 R32

Organic farming.

25779 DRAGHETTI, A. The "old force." (In Italian.) *Ital. Agr.* 85: 614-617. Nov. 1948. 16 It1

Biological aspect of soil management.

25780 HALLE, J. Aus der praxis zum thema: biologisch-dynamisch. *Land, Wald u. Garten* 3: 112-113. May 1948. 18 L22

25781 HICKS, SIR S. Food production is everybody's business. *Organic Farming Digest* 1(6): 7-12. July/Sept. 1947. 56.8 Or32

25782 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Feed the crops to feed the stock. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 294-299. Feb. 1949. 256.13 Ag82M

25783 PALLISTER, E. F. Phosphorus deficient soil. *Amer. Vet. Med. Assoc. J.* 114: 60. Feb. 1949. 41.8 Am3

Plant-animal relations.

25784 RATCLIFF, J. D. Dirt will tell your fortune. *Nation's Business* 37(2): 33-36, 62-63. Feb. 1949. 286.8 N212

Effects of soil upon people.

25785 SCHATZ, S. J. Minerals and fertile soils necessary for life. *Calif. Dairyman* 28(25): 12-14. Jan. 15, 1949. 44.8 C12

25786 STOUT, C. The Five Star Program. *Organic Gard.* 14(2): 23-25. Feb. 1949. 56.8 Or3

Soil-plant-animal relationship.

25787 WADHAM, S. M. The humus controversy. Sydney Royal Australasian College of Physicians, 1948. 19 p. (Annie B. Cunningham lectures on nutrition. 5) 56.6 W11

Soil-plant-animal relationships.

25788 WHITTLES, C. L. Soil fertility and health. *Vet. Rec.* 61: 38-39. Jan. 22, 1949. 41.8 V641

25789 WILSON, J. K. Nitrate in foods and its relation to health. *Agron. J.* 41: 20-22. Jan. 1949. 4 Am34P

#### Soil Genesis, Formation, Classification, and Mapping

25790 ARGENTINE REPUBLIC. INSTITUTO DE SUELOS Y AGROTECNIA. Bosquejo general de los materiales originarios de los suelos. n. p., 1948. map. 56.23 Ar3B

25791 BELCHER, D. J. Determination of soil conditions from aerial photographs. *Photogram. Engin.* 14: 482-488. Dec. 1948. 325.28 P56

25792 BOOR en spade. Auger and spade. Utrecht, Stichting voor Bodemkartering, Wageningen, 1948. 283 p. 56.9 B64

25793 COLLIER, D. Influence prépondérante de la roche mère sur la composition chimique des sols d'Auvergne. *Paris. Acad. des Sci. Compt. Rend.* 228: 115-116. Jan. 3, 1949. 505 P21



25794 DRAKE, H. Brief observations on soil mapping. (In Swedish.) Jönköpings Läns Hushållningssällsk. Handl. och Tidskr. 1948: 55. 11 J732

25795 DUTT, A. K. The influence of forest types on the degree of podsolization. Indian Forester 73: 495-498. Ref. Nov. 1947. 99.8 In2

25796 GRACANIN, M. Types of the Croatian forest soils. I. (In Croatian.) Glasnik za Šumske Pokuse 9: 95-119. 1948. 99.9 Z1  
English summary.

25797 HERNÁNDEZ ROBREDO, L. Hablan las tierras. Surco [Madrid] 7(80): 4-7. Oct. 1948. 15 Su7  
Soil types.

25798 HOVDE, O. The marshes in the coastal area in Sunnhordland. (In Norwegian.) Norsk Myrselskap. Meddel. 46: 115-130. Dec. 1948. 11 N813

25799 LÅG, J. Studies on the parent material of the morainic covers of the south-eastern part of Norway. (In Norwegian.) Norske Skogforsøksv. Meddel. 35, 223 p. 1948. Ref. 99.9 N833  
English summary.

25800 LUNT, H. A. The forest soils of Connecticut. Conn. (State) Agr. Expt. Sta. B. 523, 93 p. Ref. July 1948. 100 C76St

25801 POWERS, W. L., TORGERSON, E. F., and DANNEN, E. V. Identification and productivity of western Oregon soil types. Oreg. Agr. Expt. Sta. C. 175, 29 p. July 1948. 100 Or3

25802 PRINCIPI, P. Principal soil types in Tripolitania. (In Italian.) Riv. di Agr. Subtrop. e Trop. 41: 195-201. July/Sept. 1947. 26 Ag82

25803 RODEZNO, J. Mapa de El Salvador; land type areas of El Salvador. n. p., 1948? map. 56.23 R61

25804 SETZER, J. Geological contributions to soil studies made in the State of São Paulo. (In Portuguese.) Rev. Bras. de Geog. 10(1): 41-104. Ref. Jan./Mar. 1948. 278.8 R32

Summaries in French, Spanish, Italian, English, German, and Esperanto.

#### SOIL MANAGEMENT

25805 BELL, E. B. Soil husbandry. So. Austral. Dept. Agr. J. 52: 191-192. Nov. 1948. 23 So84

25806 BERTOLINO, E. Los arboles defienden la producción del suelo. Campo y Suelo Argentino 32(386): 25. Dec. 1948. 9 C15

25807 COISIER, B. Essai sur une meilleure utilisation du sol; modalités juridiques d'application des progrès techniques. Agr. Prat. 112: 385-386. Nov. 1948. 14 J82

25808 ELGUETA, M. El uso racional del suelo. Hacienda 44(2): 42-43. Feb. 1949. 6 H11

25809 GRANT, C. Why vegetation on watersheds? Science 108: 486-487. Oct. 29, 1948. 470 Sci2

Comments by W. E. Bullard in Science 109: 18. Jan. 7, 1949.

25810 KENWORTHY, A. L., and GILLIGAN, G. M. Influence of soil management practices on tree growth and leaf and soil analysis in a young peach orchard. Del. Agr. Expt. Sta. C. 21, 10 p. Nov. 1947. 100 D37S

25811 LULL, H. W. Watershed condition and flood potential. J. Forestry 47: 45-48. Jan. 1949. 99.8 F768

25812 PUTOD, R. La defense et la restauration des sols en Algérie. Cahiers des Ingén. Agron. 3(39/40): 35-39. Sept./Oct. 1948. 14 C112

25813 RAMSER, E. Die Notwendigkeit der Fortführung von Bodenverbesserungen in der Schweiz. Schweiz. Landw. Monatsh. 26: 395-409. Dec. 20, 1948. 17 Sch93

25814 REEVE, R. C., ALLISON, L. E., and PETERSON, D. F., JR. Reclamation of saline-alkali soils by leaching, Delta area, Utah. Utah Agr. Expt. Sta. B. 335, 52 p. Ref. Dec. 1948. 100 Ut1

U. S. Regional Salinity and Rubidoux Laboratories co-operating.

25815 ROE, J. Out of their soil a better living. Successful Farming 46(11): 32-33, 142, 144-146. Nov. 1948. 6 Su12

Soil management.

25816 ROSS, A. A. Management of the orchard soils of the Stanthorpe District. Queensland. Div. Plant Indus. Adv. Leaflet 132, 7 p. Feb. 27, 1948. 423.92 Q3A

25817 STARKEY, R. How far can we go in putting soil improvement practices into operation. Hort. News 30: 2109, 2123. Jan. 1949. 81 N46

25818 VIAUD, M. C. Conservación del suelo en los cafetales de El Salvador. Hacienda 44(2): 47-48. Feb. 1949. 6 H11

25819 WHITEHEAD, S. B. Getting the best out of a heavy soil. Pop. Gard. 50: 397, 402. Dec. 18, 1948. 80 G1622

#### Soil Fertility

25820 ADARRAGA, J. La vid y el suelo. Agr. Lagunero 3(30/31): 2, 31. Oct./Nov. 1948. 8 Ag824

25821 ALEKSEEV, E. K. Zelënoe udobrenie v SSSR [Green manures in U. S. S. R.]. Moskva, Sel'khozgiz, 1948. 469 p. 57.5 AL2

25822 ALLEN, C. Big corn. Farm Q. 3(4): 84, 86, 135-140. Winter 1948. 6 F22995  
Corn yield improvement on a Tennessee farm with plant food.

25823 ANDERSON, K. L. Brome seed yields increased five times! Crops & Soils 1(4): 11-13. Jan. 1949. 6 W66

With nitrogen fertilizer.

25824 ARENTZ, R. Dry land bonanza. Co-op Grain Q. 6(3): 40-44. Winter 1948. 280.28 C7898  
Addition of nitrogen to wheat soils.

25825 BANDI, P. The centenary of a theory. (In Italian.) Romagna Agr. e Zootec. 33(5): 1. May 1948. 16 R66  
Liebig's theory of fertilization.

25826 BARBIERI, R. So-called soil-improvement plants. (In Italian.) Ital. Agr. 85: 695-701. Dec. 1948. 16 It1

25827 BARRETO, J. Preservation of soil fertility. Sugar Indus. 2(5): 6-7. Sept./Oct. 1948. 65.8 Su332  
Text also in Spanish.

25828 BAUR, K., and TREMBLAY, F. T. Commercial fertilizers for canning and freezing peas in western Washington. Wash. Agr. Expt. Sta. B. 503, 19 p. Ref. July 1948. 100 W27E

25829 BEAR, F. E. Diagnostic techniques for soils and crops, their value and use in estimating the fertility status of soils and nutritional requirements of crops, prepared by Firman E. Bear, and others. Ed. by Herminie Broedel Kitchen. Washington, Amer. Potash Inst., 1948. 308 p. Ref. 395 B38D

25830 BEAR, F. E., and PRINCE, A. B. Magnesium needs of New Jersey soils. N. J. Agr. Expt. Sta. B. 739, 19 p. May 1948. 100 N46S

25831 BEAR, F. E. The test of time. Amer. Fert. 109(12): 1-9, 24, 26, 28. Dec. 11, 1948. 57.8 Am3  
Also in Agr. Chem. 4(1): 39-41, 77, 79, 81. Jan. 1949. 381 Ag8

25832 BIANCHI, G. The fertilization of pastures. (In Italian.) Agr. Bresciana 1(51): 1-2. Dec. 22, 1948. 16 Ag89

25833 BODDY, H. Key to profits—grassland residues program viewed as money maker for Western ranches. West. Livestock J. 26(59): 54, 56, 58, 94. Oct. 15, 1948. 6 F2278

Rotted grass mulch for plant food.

25834 BOTTAZZI, A. Nitrates for wheat. (In Italian.) Avvenire Agr. 56: 269-270. Nov. 1948. 16 Av9

25835 BOURIQUET, G. Les engrais chimiques et le vanillier. Agron. Trop. 3: 497. Sept./Oct. 1948. 26 Ag86

25836 CALDWELL, A. C. Fertilizer trials in Mower County, 1947. Minn. U. Agr. Ext. Soil Ser. 23, 7 p. Mar. 1948. 275.29 M66So

25837 CERVI, B. Does it pay to fertilize? (In Italian.) Avvenire Agr. 56: 258-259. Oct. 1948. 16 Av9  
25838 CHAPMAN, C. J. Organic matter puts new life in old soils. Better Crops Plant Food 33: 6-11, 45. Jan. 1949. 6 B46

25839 CHATEL, C. Fumons nos vergers au pal. Réveil Agr. 57: 244-245. Aug. 15, 1948. 14 R322

25840 CLARKE, D. A garden on clay soil. Gard. Illus. 66: 29. Feb. 1949. 80 G169

25841 COFFIN, D. New topsoil from grass. Cap-per's Farmer 60: 9, 59. Jan. 1949. 6 M693  
Brome grass.



- 25842 CRANE, F. H. Legumes supply organic matter. Better Crops Plant Food 32(10): 6-11, 45-47. Dec. 1948. 6 B46
- 25843 CROWTHER, R. M. Fertilisers and soil fertility. U. S. Off. Pub. Bd. Rpt. 93766: 6. 1948. 157.8 R29  
Germany.
- 25844 CRUZ RIASCOS, L. C., and DAGNINO RUIZ, J. El abonamiento correcto del cacao. Rev. Nac. de Agr. [Bogotá] 41(501/502): 35-36. Jan./Feb. 1947. 9.4 R32
- 25845 CUNNINGHAM, I. J. Peat lands need copper fertilisers. New Zeal. J. Agr. 77: 340. Oct. 1948. 23 N48J
- 25846 DALMASSO, G. For the new grape plantings [Italy]. (In Italian.) Gior. di Agr. 59: 21. Jan. 16, 1949. 16 It1G  
Selection of lands.
- 25847 DAVIES, E. B. The mixing of fertilisers for single-dressing applications. New Zeal. Dept. Agr. B. 315, 3 p. 1948. 23 N48Bu
- 25848 DEL LUNGO, A. Grain that has been fertilized sells at a higher price. (In Italian.) Coop. e Agr. 30(45): 1. Nov. 20, 1948. 16 C78
- 25849 DRAGHETTI, A. The ABC of farming: know the soil. (In Italian.) Gior. di Agr. 58: 343. Dec. 5, 1948. 16 It1G
- 25850 FABBRI, G., and CASADEI, S. Tests in heavy fertilization of grain. (In Italian.) Agr. Romagnola 20: 2. Oct. 20, 1948. 16 Ag828
- 25851 FANTINI, P. Fruit plants and their chemical fertilization. (In Italian.) Agr. Bresciana 1(49): 2. Dec. 8, 1948. 16 Ag89
- 25852 FERRETTO, R. F. The absorbing power of soils and deep fertilization. (In Italian.) Coop. e Agr. 30(50): 1-2. Dec. 25, 1948. 16 C78
- 25853 FINCH, F. H. The restoration of soil fertility. Rev. River Plate 104(2972): 22, 24-25. Nov. 26, 1948. 286.8 R32  
Composition of soil organic matter.
- 25854 FINNELL, H. H. Soil moisture and wheat yields on the High Plains. U. S. D. A. Leaflet 247, 8 p. 1948. 1 Ag84L
- 25855 FIORITO, G. Renew soil fertility. (In Italian.) Mezzogiorno Agr. 4(40): 2. Oct. 17, 1948. 16 M67  
In grain culture.
- 25856 FOIDART, D. Quelques précisions sur le super-phosphate. Nord Agr. 5(10): 2. Jan. 8, 1949. 14 N75  
Use on wheat and sugar beets.
- 25857 FOLLONI, A. Restore fertility to the soil. (In Italian.) Romagna Agr. e Zootec. 33(11): 1. Nov. 1948. 16 R66  
Also in Agr. Romagnola 21: 1. Nov. 5, 1948. 16 Ag828
- 25858 FONDARD, L. La fertilisation de la vigne contrôlée par l'analyse chimique de la feuille. Réveil Agr. 58: 19-20. Jan. 15, 1949. 14 R322
- 25859 GAMMON, N., JR. Don't lose soil effectiveness; conserve native fertility in establishing pasture. Fla. Grower 57: 17-18. Jan. 1949. 80 F6622
- 25860 GERICKE, S. Die ernährung Deutschlands—ein problem der pflanzenernährung. Saat u. Ernte 3(12): 4. Dec. 1948. 18 Sa12  
Increases in production caused by use of fertilizers.
- 25861 GILLIGAN, G. M., and PHILLIPS, C. E. Lime and the availability of plant food in soil. Del. Agr. Expt. Sta. C. 23, 8 p. Sept. 1948. 100 D37S
- 25862 GIÖBEL, G. Pasture fertilizing. (In Swedish.) (Sum.) Lantmannen 32: 826. Dec. 11, 1948. 11 L234
- 25863 GONZÁLEZ DE HARO, S. Factores que determinan la necesidad del abonado de las tierras. Ceres [Valladolid] 12(149): 34-35, 37. Nov. 1, 1948. 15 C33
- 25864 GOY, S. Bodenfruchtbarkeit und düngung. Erfurt, 1948. 55 p. (Karteikurzberichte Fachschriften-sammlung. 4) 57 G74
- 25865 GOYET, J. Toute application d'engrais doit être efficace. Bouches du Rhone Agr. 22(994): 7. Jan. 15, 1949. 14 B662
- 25866 HAAN, I. DE. The effect of potassium and phosphate fertilizers on tea growing on a heavily weath-ered laterite soil. (In Dutch.) Arch. v. de Theecult. 16: 53-69. Sept. 1948. 68.18 Ea72  
English summary.
- 25867 HALL, R. B. Soil organic matter. Veg. Growers News 3(7): 3. Jan. 1, 1949. 275.28 V52
- 25868 HANLEY, F. Nutrition of farm crops. III. The nutrition and manuring of potatoes. Farming [Norwich] 3: 11-15. Jan. 1949. 10 F2236
- 25869 HARPER, H. J., and BRENSING, O. H. Effect of ammonium nitrate on corn production in Oklahoma, 1948. Okla. Agr. Expt. Sta. Mimeog. C. M-178, 9 p. Jan. 1949. 100 Ok4M
- 25870 HARPER, H. J., and others. Fertilizer recommendations for Oklahoma crops. Okla. Agr. Expt. Sta. B. B-326, 14 p. Jan. 1949. 100 Ok4  
H. F. Murphy, F. B. Cross, and H. B. Cordner, joint authors.
- 25871 HAZLEWOOD, B. P., and CHAPMAN, E. J. Effects of several winter cover crops on the yield of cotton. Tenn. Agr. Expt. Sta. C. 100, 4 p. Nov. 1948. 100 T25S
- 25872 HILLS, F. J. Some factors in influencing a fertilizer program. Spreckels Sugar Beet B. 13: 4-6. Jan./Feb. 1949. 66.8 Sp7
- 25873 HOPKINS, J. P. Better home-grown tobacco. Smallholder 80(2023): 10. Jan. 7, 1949. 10 Sm1  
Chiefly fertilizers.
- 25874 HUNT, R. Rich land for tobacco. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 64: 16. Jan. 1949. 6 P945
- 25875 HUSEMANN, C. F. A. Die landwirtschaftliche bewertung der moorböden und ihre natürlichen grund-lagen. Lüneburg, Kinau, 1947. 104 p. 56.33 H95
- 25876 HUTCHESON, T. B. Southern soils need more humus, organic matter. Prog. Farmer, Car.-Va. Ed. 64: 20. Jan. 1949. 6 P945
- 25877 JACKS, H. Manuring of fruit trees. Orchardist New Zeal. 21(8): 12. Nov. 5, 1948. 80 Or19
- 25878 JOACHIM, A. W. R., and KANDIAH, S. The effect of shifting (chena) cultivation and subsequent regeneration of vegetation on soil composition and structure. Trop. Agr. [Ceylon] 104: 3-11. Jan./Mar. 1948. 26 T751
- 25879 JOHANSSON, E. Manuring and irrigation trials with strawberries. (In Swedish.) Lantbr., Mejeri- och Trädgårdst. Statens Mejeriförsök. Meddel. 45: 57-82. 1948. 86 AL64
- 25880 JOHNSTON, J. C. What fertilizers will we give citrus trees? Calif. Farmer, North. Ed. 190: 34. Jan. 15, 1949. 6 C126
- 25881 JOUGAN, E. L'emploi des pails injecteurs pour la fumure des arbres fruitiers et la destruction des parasites du sol. Monit. Agr. 1(30): 6. (Cont.) Aug. 8, 1948. 14 M744
- 25882 KENNEDY, N. F. Do record yields mine the soil? Corn Indus. Res. Found. Corn 4(4): 1-3. Nov. 1948. 59.8 C81
- 25883 KING, A. Conservation farming made possible by nitrogen. Victory Farm Forum 33: 8. Dec. 1948. 281.8 F226
- 25884 KIRCHMEYER, F. Kalk und bodengesundheit. Salzburger Bauer 4(2): 2. Jan. 13, 1949. 19 Sa3
- 25885 LACOMBE, R. Fumure au pal injecteur. Prog. Agr. et Vitic. 1948: 349-353. Dec. 26, 1948. 14 P94
- 25886 LAURIE, A., and KIPLINGER, D. C. Soils and fertilizers for greenhouse and garden. New York, De La Mare, 1948. 128 p. 57 L37
- 25887 LEPELTIER-BEAUFONDS, A. La zymother-mie (ou fabrication de l'humus). Rev. Agr. de l'Ile Réunion 48: 227-232. July/Aug. 1948. 25 R32
- 25888 LONGNECKER, T. C., and GRAY, C. Response of winter grains to fertilizer. Victory Farm Forum 33: 14-15. Dec. 1948. 281.8 F226
- 25889 LONGWELL, J. H., and others. Use of commercial plant foods on Missouri farms. Mo. Agr. Expt. Sta. B 519 18 p. Oct. 1948. 100 M693  
A. W. Klemme, H. J. L'Hote, and J. R. Breuer, joint authors.
- 25890 LORENSSON, A. Green manuring with alfalfa. (In Swedish.) Lantmannen 33: 24. Jan. 8, 1949. 11 L234
- 25891 MACGREGOR, J. M., and KINSEY, C., JR. Fertilizer trials on oats grown on milaca very fine sandy loam in Pine, Kanabec and Mille Lacs Counties, Minnesota, 1947. Minn. U. Agr. Ext. Soil Ser. 24, 9 p. Apr. 1948. 275.29 M66So



25892 MACLEAN, A. J., and others. Fertility studies on soil types. I. Some observations on Carleton County [Ontario] investigations. *Sci. Agr.* 29(1): 1-12. Jan. 1949. 7 Sci2

H. J. Atkinson, R. C. Turner, P. O. Ripley, and L. E. Wright, joint authors.

25893 MAIER-BODE. Die "armen" böden. *Agrarpholit. Presse-Korresp.* Ausg. B, 1: 3-4. Apr. 10, 1948. 281.8 Ag892B

25894 MARINI, G. Phosphorus-magnesium fertilizers for grain and vegetable crops. (In Italian.) *Agr. Modenese* 4(15): 4. Oct. 31, 1948. 16 Ag8255  
Also in *Agr. Bresciana* 1(42): 2. Oct. 20, 1948. 16 Ag89

25895 MARSHALL, J. G. Sodium a nutrient element in growth of cotton. *Victory Farm Forum* 33: 7-8. Dec. 1948. 281.8 F226

25896 MARTIN, J. P. Growth of citrus seedlings in old citrus soils. *Calif. Citrog.* 34: 102, 110-111. Jan. 1949. 80 C492

Also in *Citrus Leaves* 29: 8-9. Jan. 1949. 80 C492

25897 MARTIN, R. Farmers prove you can rebuild soil in three years. *Farmer-Stockman* 62: 3, 14. Jan. 1949. 6 Ok45

25898 MAURON, P. L'équilibre de la fumure. *Prog. Agr. et Vitic.* 1948: 304-305. Dec. 5/12, 1948. 14 P94

Also in *Défense Agr. de la Beauce et du Perche* 45(35): 346. Dec. 20, 1948. 14 D36

25899 MEREDITH, D. B. D. The effect of fertilizers on grasses in certain areas in South Africa, with special reference to nitrogen. *Johannesburg African Explosives & Chem. Indus.*, 1947. 186 p. 57.07 M54

25900 MESA C., L. G. Mi experiencia con el abono orgánico. *Agr. Trop.* 4(11): 17-18. Nov. 15, 1948. 26 Ag8

25901 MIEGE, E. L'impérieuse nécessité de la matière organique. *Inform. Maroc.* 402: 1-2. Sept. 25, 1948. 281.8 In3

25902 MITSCHERLICH, E. A. Pflanzenphysiologische bodenkunde. Berlin, Akademie-Verlag, 1948. 23 p. (Berlin. Deutsche Akademie der Wissenschaften. Vorträge und Schriften 28) 56.6 M69P

25903 NELSON, L. B. Let's use fertilizers right. *Iowa State Col. Agr. Ext. Iowa Farm Sci.* 3(7): 3-6. Jan. 1949. 275.28 Io94

25904 NEW JERSEY. AGRICULTURAL EXPERIMENT STATION. Fertilizer and lime recommendations for New Jersey. *N. J. Agr. Expt. Sta. C.* 521, 15 p. Dec. 1948. 100 N46S

25905 NIESCHLAG, F. Welches ist der günstigste kalkzustand für pflanze und boden? *Neue Mitt. f. die Landw.* 3: 119-120. Apr. 21, 1948. 18 N39

25906 NIXON, W. M., and TAYLOR, D. H. Hubam sweetclover. *Better Crops Plant Food* 32(10): 15-20, 47. Dec. 1948. 6 B46

25907 ØDELIEN, M. On the work with new kinds of fertilizers in the United States. (In Norwegian.) *Norsk Landbr.* 15: 26-29. Jan. 21, 1949. 11 N8122

25908 OLDEMEYER, O. L. Real dividends from commercial fertilizer. *Through Leaves* 26, i. e. 36(6): 24. Nov./Dec. 1948. 66.8 T41  
For sugar beets.

25909 OSMOND, D. A. The influence of soils on fruit tree growth. *Worcestershire Agr. Chron.* 17(1): 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93. Nov. 1948. 10 W892

25910 PANCHENKO, A. IA. Effectiveness of fertilizers in the initial stage of oil plant and pasture crop rotation. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur.* Nauch. Otcët 1941-1944: 274-280. 1947. 77.9 K86N

25911 PEÑARANDA CANAL, F. La cal y su empleo en la agricultura. *Agr. Trop.* 4(11): 33-37. Nov. 15, 1948. 26 Ag8

25912 PISKUNOV, I. F. Effect of perennial forage plants and grasses on the fertility of slightly carbonate Caucasian Chernozem soils. (In Russian.) *Vsesoiūzn. Nauch. Issled. Inst. Maslichn. Kul'tur.* Nauch. Otcët 1941-1944: 201-207. 1947. 77.9 K86N

25913 POWELL, L. A. Manuring vegetable gardens. *Jamaica. Dept. Agr. Ext. C.* 12, 6 p. May 1948. 275.249 J22

25914 PRINCE, A. L., and BEAR, F. E. Phosphorus needs of New Jersey soils. *N. J. Agr. Expt. Sta. B.* 744, 20 p. Oct. 1948. 100 N46S

25915 PROCTER, G. C. Under glass: tomato manuring and high yields. *Grower* 30: 1097-1098. Dec. 25, 1948. 286.83 M34

25916 RAMONA, R. DE. La agricultura mundial necesita fertilizantes. *Cult. Mod.* 30: 443-445. Dec. 1947. 15 C89

25917 RAVIKOVITCH, S. Peat soils and soils rich in organic matter in the Huleh Valley. *Jewish Agency for Palestine. Agr. Res. Sta. B.* 47, 32 p. Ref. Apr. 1948. 107 Z6

25918 REECH, S. D. Increasing corn yields in Union Parish, La. *Better Crops Plant Food* 32(10): 12-14, 41. Dec. 1948. 6 B46

25919 REYNTENS, H. Good grass in the meadow orchard also. (In Flemish.) *Tuinbouwberichten* 12: 175-176. Nov. 15, 1948. 80 T817

25920 RHIND, D., and TIN, U. Deleterious effects of nitrogenous dressings when used alone on Burma paddy soils. *Trop. Agr. [Ceylon]* 104: 12-16. Jan./Mar. 1948. 26 T751

25921 RICCHINI, M. Mineral (phosphate) fertilization of grapes and olives. (In Italian.) *Agr. Bresciana* 1(44): 1. Nov. 3, 1948. 16 Ag89

25922 RITCHEY, G. E. Lupines—an old crop that is new to the south. *Victory Farm Forum* 33: 13-14. Dec. 1948. 281.8 F226

Use as a green manure.

25923 RODALE, J. I. Phosphate rock. *Organic Gard.* 14(2): 12-14. Feb. 1949. 56.8 Or3

25924 ROGERS, W. S., and GREENHAM, D. W. P. Maintaining orchard fertility. *Fruit-Grower* 106: 701-703. Dec. 2, 1948. 80 F941

25925 ROSELL, D. Z. Our soils today. *Philippine Livestock Mag.* 1: 163, 186, 187. Sept. 1948. 49 P53

25926 ROSS, A. A. The growing of green manure crops in the orchards of the Stanthorpe District. *Queensland. Div. Plant Indus. Adv. Leaflet* 131, 7 p. Feb. 12, 1948. 423.92 Q3A

25927 ROST, C. O., KRAMER, H. W., and MCCALL, T. M. Fertilization of sugar beets in the Red River Valley. *Minn. Agr. Expt. Sta. B.* 399, 14 p. June 1948. 100 M66

25928 RUPP, E. The most important job is to save organic matter in soil. *Kans. Farmer* 85(21): 10. Nov. 6, 1948. 6 K13

25929 RUSSELL, SIR E. J. Effects of fertilizer on quality of farm crops. *Victory Farm Forum* 33: 11-12. Dec. 1948. 281.8 F226

25930 SAUCHELLI, V. The use of fertilizers increases yields. (In Portuguese.) *Fazenda* 44(1): 38-39. Jan. 1949. 6 H11P

25931 SAUERLANDT, W. Die wuchsstoffwirkung organischer düngemittel. *Ztschr. f. Pflanzenernähr., Düngung, Bodenk.* 41: 148-158. Ref. 1948. 384 Z343A

25932 SCARSETH, G. D. Efficiency—what's that? *Hoosier Farmer* 34(2): 12. Feb. 1949. 280.82 H76  
Pasture fertilization.

25933 SCHARFF, J. Fertilizers improve home garden yields. *Calif. Farmer, South. Ed.* 190: 21. Jan. 1, 1949. 6 C126A

25934 SEELEY, J. C. Fertilizer applications for automatic, surface watering. *South. Florist & Nurseryman* 61(46): 13, 100-102. Feb. 11, 1949. 80 So86

25935 SEELEY, J. G. Soil nitrate level of 25-100 ppm. best for rose growing. *South. Florist & Nurseryman* 61(41): 15, 59-61. Jan. 7, 1949. 80 So86

25936 SELL, O. E. Fertilizer and nitrogen for winter grazing. *Victory Farm Forum* 33: 7. Dec. 1948. 281.8 F226

25937 SHAW, E. B. Fertilization: route to a new continent. *J. Geog.* 47: 284-290. Oct. 1948. 278.8 J82  
Increased soil fertility from fertilizers.

25938 SIDWELL, R. W. Manuring the vegetable garden. *Amateur Gard.* 65(3369): 17. Dec. 7, 1948. 80 Am13

25939 SIEVEKING, E. G. Fertility foundation and soil tilth is organic matter. *Seed Trade News* 51(23): 1-3. Dec. 8, 1948. 61.8 Se3

25940 SILVEIRINHA, R. Fertilization of olive trees. (In Portuguese.) *Vida Agr.* 11(68): 6-7. Nov./Dec. 1948. 15.5 V66

25941 SIROTTI, G. The influence of phosphorus-nitrate fertilization in increasing of agricultural production. (In Italian.) *Romagna Agr. e Zootec.* 33(2): 1. Feb. 1948. 16 R66



- 25942 SMITH, A. M. Sugar beet and soil acidity. *Brit. Sugar Beet Rev.* 17: 71-72. Dec. 1948. 66.8 B77
- 25943 SMITH, R. The farmer and the soil. II-III. *Westralian Farmers' Co-op Gaz.* 14: 293, 295, 297, 393, 395-396. Nov.-Dec. 1948. 280.28 W522
- 25944 SÖLTOFT, W. Alfalfa as green manure. (In Swedish.) *Lantmannen* 32: 822. Dec. 11, 1948. 11 L234
- 25945 SOMOZA, A. L. El suelo y su relación con los cultivos. *Bolsa de Com. del Rosario. Rev.* 36(885): 5-6. Nov. 30, 1948. 287 R71
- 25946 SPRAGUE, H. B. Two problems in Blackland research. *Land* 7: 450-452. Autumn 1948. 279.8 L22  
Soil exhaustion and mechanization.
- 25947 STEINEMANN, F. G. Sugar, cotton, and fertilizers. (In Portuguese.) *Lavoura* 52: 55-57. Sept./Oct. 1948. 9.2 L39  
Brazil.
- 25948 STEYERMARK, J. A. Acid tolerant or acid needy? *Horticulture* 27: 16. Jan. 1949. 80 H787  
Soils for ornamental plants.
- 25949 THOMAS, W. Basic problem same in use of trace elements. *Victory Farm Forum* 33: 10-11. Dec. 1948. 281.8 F226
- 25950 TIND-CHRISTENSEN, C. J. Further experiments with nitrogen, phosphoric acid and potash without and with lime added on marshland. 1924-1927. (In Danish.) *Tidsskr. for Planteavl* 52: 189-222. 1948. 11 T439
- 25951 TURK, L. M., and LYND, J. Q. Too much lime may be harmful! *Crops & Soils* 1(3): 10-11. Dec. 1948. 6 W55
- 25952 VACCHERI, G. Fertilizer tests on mountain pastures. (In Italian.) *Campagna* 47: 260-261. Oct. 15, 1948. 16 C152
- 25953 VACHHANI, M. V. The effect of the cultivation of Brassicae oil-seed crops on the soil fertility. *Cur. Sci.* 17: 300. Oct. 1948. 475 Sci23
- 25954 VAN DERLINDEN, L. Influence of plant foods on western prosperity. *New Agr.* 31(3): 6-8; (4): 6. Dec. 1948-Jan. 1949. 66.8 Su32
- 25955 VANSTONE, E. The soil and the plant. London, Macmillan, 1947. 71 p. 56.3 V36
- 25956 VÁZQUEZ HUMASQUE, A. Ventana al campo lagunero—con abono, menos agua. *Agr. Lagunero* 3 (30/31): 22-23. Oct./Nov. 1948. 8 Ag824
- 25957 VEREIN DEUTSCHER DÜNGER-FABRIKANTEN. Höchste erträge durch die richtige anwendung des superphosphates! Hamburg, 1947. 4 p. 57.24 V58
- 25958 VINE, R. Aerial topdressing with superphosphate. *New Zeal. Farmer* 69(18): 3-5. Oct. 28, 1948. 23 N484
- 25959 WALLACE, T. Manuring of neglected orchards. *Worcestershire Agr. Chron.* 17(1): 101, 103, 105, 107, 109. Nov. 1948. 10 W892
- 25960 WALLIHAN, E. F. Your crop versus phosphorus. *Calif. Citrog.* 34: 116-117, 120-121. Jan. 1949. 80 C125
- 25961 WHEETING, L. C. Organic matter is keystone of healthy soil. *Wash. Farmer* 74: 72, 86. Feb. 3, 1948. 6 R151
- 25962 WHITLOW, S. Fertilizers: what to use and when in the Gulf Coast Area. *Rice News* 16: 3, 12. Jan. 1949. 59.8 R362
- 25963 WILCOX, J. C. Some factors affecting apple yields in the Okanagan Valley. V. Available P, K and Ca in the soil. *Sci. Agr.* 29(1): 27-44. Ref. Jan. 1949. 7 Sci2
- 25964 WINKLER, P. Zum manganproblem. *Landw. Wchnbl.* 138: 367. (To be cont.) Nov. 13, 1948. 18 L2338  
Germany.
- 25965 WYCHE, R. H., CHEANEY, R. L., and TURNER, W. F. Fertilizer requirements for rice of the Gulf Coast Prairie of Texas, 1947-48. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1144, 7 p. Jan. 6, 1949. 100 T31P
- 25966 WYND, F. L., and STEINBAUER, G. P. Correlations between soil properties and pasture productivity. *Lloydia* 11: 171-180. Ref. Sept. 1948. 442.8 L77
- 25967 YARICK, B. "Old" citrus soils? *Calif. Citrog.* 34: 132-133. Jan. 1949. 80 C125

### Soil Tilth and Tillage

- 25968 BONGERS. How should we plow in the New Year? Not too deep and in small clods. (In Dutch.) *Boer en Tuinder* 2(88): 3. Sept. 11, 1948. 12 B632
- 25969 CHERNIAEV, V. A. Tillage of grassland for spring cereals. (In Russian.) *Vsesoiuzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otkhët* 1941-1944: 182-200. 1947. 77.9 K86N
- 25970 DUNKER. Winterarbeiten und betriebserfolg. *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 333-334. Nov. 27, 1948. 18 L2346
- 25971 GALLETI, A. C. Grain and deep plowing. (In Italian.) *Terra [Firenze]* 60(5): 2. Jan. 30, 1949. 16 T274
- 25972 GUEST, A. I grow my crops in nature's way—without digging. *Smallholder* 80(2019): 8. Dec. 10, 1948. 10 Sm1
- 25973 HEDRICK, D. W. The mulch layer of California annual ranges. *J. Range Mangt.* 1: 22-25. Ref. Oct. 1948. 60.18 J82
- 25974 IGNAT'EV, B. K. Effect of time of plowing land in grass on the yields of grain and oil crops. (In Russian.) *Vsesoiuzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otkhët* 1941-1944: 238-263. 1947. 77.9 K86N
- 25975 LANG, S. B. Stubble farming. *So. Austral. Dept. Agr. J.* 52: 144. Oct. 1948. 23 So84
- 25976 MCCOOL, M. M. Studies on pH values of sawdusts and soil-sawdust mixtures. *Boyce Thompson Inst. Contrib.* 15: 279-282. Oct./Dec. 1948. 451 B69
- 25977 PATWARDHAN, G. K. Ploughing—its depth and frequency. *Indian Sugar* 11: 169-170. Sept. 1948. 65.8 In25  
From Proceedings Deccan Sugar Technical Association, 1948.
- 25978 POWELL, E. C. Stubble mulch or bare fallow for wheat production. *Agr. Gaz. N. S. Wales* 59: 505-509. Oct. 1948. 23 N472
- 25979 REICHART, M. A. L. "El cultivo del suelo": las labranzas. *Tambo y Chacra* 21(739): 4, 6, 8. Jan. 5, 1949. 44.8 T15
- 25980 RYZHIKOV, E. F., and MAKSIMOVA, A. I. A. Development of a mechanized crosswise cultivation method for sunflower, castor-oil plant, and corn. (In Russian.) *Vsesoiuzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otkhët* 1941-1944: 296-323. 1947. 77.9 K86N
- ### Drainage, Irrigation, Water Supply, and Flood Control
- 25981 BALLESTER, R. E. Aprovechamiento de los recursos de agua en el regadío. *Hacienda* 44(2): 46. Feb. 1949. 6 H11
- 25982 BARONA DE LA O., F. Influencia de las obras nacionales de riego, en el desarrollo de nuestras industrias de transformación. *Ingen. Hidrául. en Méx.* 2(3): 5-15. July/Sept. 1948. 290.8 In43  
Summary in Portuguese and English.
- 25983 BARROWS, H. K. Floods, their hydrology and control. New York, McGraw-Hill, 1948. 432 p. 290 B273F
- 25984 BEELER, M. N. Marsh water wizardry; Michigan farmer's drainage system reverses to bring back moisture for thirsty crops. *Capper's Farmer* 60(2): 11. Feb. 1949. 6 M693
- 25985 BRUNELLI, P. The Baganza Basin. (In Italian.) *Avenire Agr.* 56: 245-251. Oct. 1948. 16 Av9  
A study of irrigation and its advantages.
- 25986 BRYSON, J. L. Cumbrian drainer. *Gt. Brit. Min. Agr. Agriculture* 55: 433-435. Jan. 1949. 10 G79J  
Chiefly equipment.
- 25987 CALIFORNIA. DEPT. OF PUBLIC WORKS. DIV. OF WATER RESOURCES. Irrigation district laws. *Calif. Dept. Pub. Works. Div. Water Resources. B.* 18-I, 149 p. 1948. 290.9 C123
- 25988 CEYLON. DIRECTOR OF IRRIGATION. Administration report, 1947. Ceylon, 1948. 67 p. 55.9 C33
- 25989 COLBY, B. R., and OLTMAN, R. E. Gaging-station records in the Missouri River Basin. *U. S. Geol. Survey-Water-Supply Paper* 1077, 219 p. Dec. 1948. 407 G29W
- 25990 DE ROOS, R. The thirsty land; the story of the Central Valley Project. Stanford, Stanford U. Press, 1948. 265 p. 281.010 D44



- 25991 DUGGAN, W. C. The home maintenance area; relationship to irrigation farming. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 1(4): 15-19. Oct. 1948. 281.9 Au73
- 25992 EGGERS, H. W. T. Laying tile drains. New Zeal. J. Agr. 77: 373-374. Oct. 1948. 23 N48J
- 25993 EGYPT. PUBLIC WORKS DEPT. Irrigation and drainage in Egypt. Cairo, 1948. 14 p. 55 Eg9
- 25994 EGYPT. PUBLIC WORKS DEPT. Schemes to develop production of present areas, improved irrigation and drainage. Cairo, 1948. 21 p. 55 Eg9S
- 25995 ELLIS, U. Underground water may determine Australia's national future. Australia to-day 1949: 93-95, 97, 99, 101, 103, 105. Oct. 20, 1948. 280.8 Au72
- 25996 FINCH, H. Level your land to boost your income. Rec. Stockman, Ann. Ed. 59(52): 49. Dec. 23, 1948. 49 D43  
For irrigation.
- 25997 FOSS, R. E. Sprinkler irrigation. West. Dairy J. 5(3): 44-47. Jan. 1, 1949. 44.8 W524
- 25998 FOSTER, E. E. Rainfall and runoff. New York, Macmillan, 1948. 487 p. 340 F81
- 25999 GALLAGHER, C. Pumps and pumping. Queensland. Bur. Sugar Expt. Stas. Cane Growers' Q. B. 12: 89-99. Oct. 1, 1948. 65.9 Q3C
- 26000 HALL, F. A. Large area pastures under irrigation. Agr. Gaz. N. S. Wales 59: 563-568. (Cont.) Nov. 1, 1948. 23 N472
- 26001 HANNAH, H. W. Illinois farm drainage law manual. II. Ill. Farm Econ. 162/163: 767-771. Nov./Dec. 1948. 275.28 IL5
- 26002 HIEMELEERS, J. Irrigation of orchards in the United States. (In Flemish.) Tuinbouwberichten 12: 192-194. Dec. 15, 1948. 80 T817
- 26003 JACKSON, N. Let it rain, Lord! Hoard's Dairyman 94(3): 124-125. Feb. 10, 1949. 44.8 H65  
Terracing to divert run-off from pastures.
- 26004 JONES, P. H. Ground water summary. Rice News 15, i. e. 51(12): 3, 7. Dec. 1948. 59.8 R362  
Water for irrigation in Louisiana.
- 26005 JONES, P. H., and TURCAN, A. N. Ground water use. Rice News 16: 4-5, 11. Jan. 1949. 59.8 R362
- 26006 LICHTENWALTER, F. H. The Lehigh Valley Flood Control Council. Interstate Comm. Dela. River Basin. Rpt. 1947/1948: 34-35. 292.9 In83A
- 26007 LINDSETH, E. V. Colorado-Big Thompson project spans continental divide. Elect. Light & Power 27(2): 64-69. Feb. 1949. 335.8 EL243
- 26008 LUKER, C. Proper care of soil and water important to increased yields. N. Mex. Stockman 14(2): 22. Feb. 1949. 49 N462
- 26009 MCCULLOCH, A. W. Design procedure for portable sprinkler irrigation. Agr. Engin. 30(1): 23-28. Jan. 1949. 58.8 Ag83
- 26010 MACKENZIE, K. J. Irrigation. Rhodesia Agr. J. 45: 312-318. July/Aug. 1948. 24 R34  
Methods of applying water.
- 26011 MALAYAN UNION. DRAINAGE AND IRRIGATION DEPT. Annual report, 1947. Kuala Lumpur, 1948. 149 p. 54.9 F31
- 26012 MARANGONI, E. P. Irrigation in the Voghera region beyond the Po. (In Italian.) Voce dei Campi 3(32): 1. Dec. 15, 1948. 16 V852
- 26013 MOREL, C. Posons le problème de l'amélioration et de l'extension de l'irrigation en France. Génie Rural 41: 289-291. Oct. 1948. 58.8 Au8
- 26014 MOREL, C. La réforme juridique des irrigations. Génie Rural 41: 351-352. (To be cont.) Dec. 1948. 58.8 Au8  
France.
- 26015 NETHERLANDS. COMMISSIE VOOR EN ONDERZOEK NAAR NIEUWE LANDBOUWKUNDIGE MOGELIJKHEDEN. Rapport omtrent de ontwikkelingsmogelijkheden op landbouwkundig gebied in de westerlijke helft van de Surinaamse kustvlakte [Report on the possibilities of agricultural development on the western half of the Surinam coastal plain]. Wageningen, 1948. 2 v. 31.9 N382  
Drainage, irrigation and reclamation.
- 26016 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Irrigation for Oklahoma. Okla. Agr. Expt. Sta. C. C-131, 28 p. Dec. 1948. 100 Ok4
- 26017 ORTON, C. R. The conservation of water. J. Soil & Water Conserv. 3: 176-179. Oct. 1948. 56.8 J822
- 26018 PETERSEN, C. P. River basin development through inter-state action. Irrig. Farmer 6(7): 5; 7, 12, 14-16. Nov. 4, 1948. 55.8 Ir78
- 26019 PORTLAND CEMENT ASSOCIATION. Irrigation with concrete pipe. Chicago, 1948. 55 p. 55 P83
- 26020 PUPPINI, G. Notices on the Laguna Comacchiese reclamation project. (In Italian.) Genio Rur. 11: 475-479. Dec. 1948. 281.8 R522
- 26021 ROUSSEL, L. L'irrigation par aspersion. I-II. Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc. 18: 369-373; 19: 9-15. Ref. Dec. 1948-Jan. 1949. 80 F9482
- 26022 STAUCH, An der grenze der ertragssteigerung? Neue Mitt. f. die Landw. 3: 490-492. Dec. 25, 1948. 18 N39  
Chiefly on the underground water situation in Germany.
- 26023 STRONG, R. L. Irrigated pastures for greater livestock dividends. Farm & Ranch 68: 22, 25. Jan. 1949. 6 T31
- 26024 TIGRE, C. B. A horticultura nas bacias de irrigação dos postos agrícolas [Horticulture in the irrigation basins of agricultural stations]. Brazil. Dept. Nac. de Obras Coptra as Sêcas. P. 147, 88 p. 1947. 9.2 B73
- 26025 TODD, O. J. The Yellow River reharnessed. Geog. Rev. 39: 38-56. Jan. 1949. 500 Am35G
- 26026 U. S. BUR. OF RECLAMATION. The reclamation program; 1948-54. Washington, 1947. 24 p. 156.85 R242
- 26027 U. S. GEOLOGICAL SURVEY. Surface water supply of the United States, 1945. 3, 5, 12. U. S. Geol. Survey. Water-Supply Paper 1033, 692 p.; 1035, 468 p.; 1042, 287 p. 1948. 407 G29W  
3, Ohio River Basin; 5, Hudson Bay and Upper Mississippi River Basins; 12, Pacific Slope Basins in Washington and Upper Columbia River Basin.
- 26028 U. S. GEOLOGICAL SURVEY. Surface water supply of the United States, 1946. 2, 4, 7, 9-11. U. S. Geol. Survey. Water-Supply Paper 1052, 550 p.; 1054, 289 p.; 1057, 417 p.; 1059, 395 p.; 1060, 198 p.; 1061, 431 p. 1948. 407 G29W  
2, South Atlantic Slope and Eastern Gulf of Mexico Basins; 4, St. Lawrence River Basin; 7, Lower Mississippi River Basin; 9, Colorado River Basin; 10, The Great Basin; 11, Pacific Slope Basins in California.
- 26029 U. S. GEOLOGICAL SURVEY. Water levels and artesian pressure in observation wells in the United States in 1945. 1, 4. U. S. Geol. Survey. Water-Supply Paper 1023, 373 p.; 1026, 180 p. 1948. 407 G29W  
1, Northeastern States; 4, South-Central States.
- 26030 VELATTA, M. Pedologic-hydro-physiological characteristics concerning irrigation. (In Italian.) Agr. delle Venezie 2: 632-660. Ref. July/Aug. 1948. 16 Ag826
- 26031 VELATTA, M. Prefabricated manufactures for reclamation and irrigation projects. (In Italian.) Genio Rur. 11: 443-451. Dec. 1948. 281.8 R522  
Italy.
- 26032 VIVANCOS GUERAO, I. Nuestros secanos; su transformación en regadíos. Murcia, Spain. Cám. Ofic. Agr. B. 69/70: 3-4. July/Aug. 1948. 15 M93
- 26033 VOLOD'KO, I. F. Ispol'zovanie podzemnykh vod dlia orosheniia [Utilization of underground waters for irrigation]. Moskva, Sel'khozgiz, 1948. 21 p. 292 V88
- 26034 WASHINGTON. DEPT. OF CONSERVATION AND DEVELOPMENT. Biennial report, 14th, 1946/48. 1948. 231 p. 279.9 W27  
Includes work in reclamation, flood control, and forestry.
- 26035 WHITE, H. C. Water resources for irrigation in Arkansas. Ark. Farmer 51: 4, 15. Jan. 1949. 6 Ar42
- 26036 WHITLOW, S. Continual flooding. Rice News 15, i. e. 51(12): 5. Dec. 1948. 59.8 R362
- 26037 WITTE, K. E. Beregnung und humusdüngung im gemüsebau. Stuttgart, Ulmer, 1948. 31 p. 91 W78
- Erosion and Erosion Control
- 26038 ALLIS-CHAMBERS. Combating erosion. III. Grassed waterways. Westralian Farmers' Co-op Gaz. 14: 247-248. Oct. 1948. 280.28 W522
- 26039 ANDERSON, H. W. Does burning increase surface runoff. J. Forestry 47: 54-57. Jan. 1949. 99.8 F768



- 26040 ARMSTRONG, J. B. Contour farming—is it the answer to soil erosion in the Pacific Northwest? *Oreg. Farmer* 72: 5. Jan. 6, 1949. 6 Or32
- 26041 BAILEY, F. 6 inches from starvation. n. p., 1948? sheet. 56.7 B152  
Soil conservation.
- 26042 BANK OF NEW SOUTH WALES. Conserve your soil! Ed. 2. Sydney, 1948. 68 p. 56.7 B22
- 26043 BENNETT, H. H. The erosion problem. *Agr. Leaders' Digest* 29(9): 16-18. Oct. 1948. 275.28 Am3
- 26044 BENNETT, H. H. Need for soil conservation. is still acute. Washington, U. S. Soil Conserv. Serv., 1949. 12 p. 1.96 Ad62
- 26045 BENNETT, H. H. Safeguarding the Nation's land. Washington, U. S. Soil Conserv. Serv., 1949. 9 p. 1.96 Ad62  
Soil conservation.
- 26046 BENNETT, H. H. Soil conservation in the old lake bed area of northwestern Ohio. Washington? U. S. Soil Conserv. Serv., 1949. 11 p. 1.96 Ad62
- 26047 BENNETT, H. H. Soil conservation in the Plains country. Washington, U. S. Soil Conserv. Serv., 1949. 8 p. 1.96 Ad62
- 26048 BENNETT, H. H. Soil conservation is a profitable investment. Washington, U. S. Soil Conserv. Serv., 1949. 10 p. 1.96 Ad62
- 26049 BENSON, E. G. Soil erosion. Trinidad & Tobago, *Agr. Soc. Proc.* 47: 235, 237-239, 241. Sept. 1947. 8 T73  
Control in Trinidad.
- 26050 BESTOR, P. Saving the nation's soil. *Amer. Planning & Civic Ann.* 1948: 11-13. 280.9 Am322
- 26051 BLANCHET, J. Un problème urgent: la conservation du sol. Foyer Rural. [Montreal] 8(5): 10. Feb. 1949. 7 F83
- 26052 BRANDT, C. Todo el territorio venezolano amenazado de convertirse en un desierto. *Pro-Vida* 29 (322): 35-36. Nov. 1948. 475 P942
- 26053 BROWN, G. F. Grass waterways win the farmer's favor. *Fert. Rev.* 24: 8-9. Jan./Feb. 1949. 57.8 F414
- 26054 BUSHNER, H. H. Trees on shifting sand; how a forest has been grown on the wind-swept Pembrey dunes. *Farmer & Stock-Breeder* 63: 210. Jan. 25, 1949. 10 F228
- 26055 CHALMERS, K. W. What's ahead for our soil? *Colo. Rancher & Farmer* 3(2): 6. Jan. 22, 1949. 6 C714  
Soil and water conservation.
- 26056 CHAMBERS, T. B. Contractors in soil conservation. *Constructor* 31(1): 50-52. Jan. 1949. 290.8 C764
- 26057 CLEMENTS, C. Vanishing lands. *Amer. Forests* 55(2): 20-21. Feb. 1949. 99.8 F762
- 26058 COPLEY, T. L., BRITT, C. S., and POSEY, W. B. Conservation practices for tobacco lands of the flue-cured and Maryland belts. U. S. D. A. Misc. P. 656, 44 p. Ref. Nov. 1948. 1 Ag84M
- 26059 CROFTS, A. We've been misusing the land for centuries. *Forest & Outdoors* 45: 14-15, 30-33. Jan. 1949. 99.8 C16
- 26060 CROSS, W. R. The road to conservation. *Antioch Rev.* 8: 432-446. Dec. 1948. 280.8 An82  
Conservation of soil and other resources.
- 26061 DAVIS, W. S., JR. Texans learn the hard way. *Land* 7: 401-402. Autumn 1948. 279.8 L22  
Soil conservation.
- 26062 DE VOTO, B. Without conservation we perish. *Amer. Planning & Civic Ann.* 1948: 25-27. 280.9 Am322
- 26063 DICKENS, J. S. Union County thrives after land reclaimed by ranchers. *N. Mex. Stockman* 14(1): 39-40. Jan. 1949. 49 N462  
Soil conservation.
- 26064 DIXON, A. F. Soil conservation. *Interstate Comn. Dela. River Basin. Rpt.* 1947/1948: 16-17. 292.9 In83A
- 26065 DOGGETT, J. F., and COPLEY, T. L. Laying off rows by the string method. *N. C. Agr. Col. Ext. C.* 329, 11 p. Oct. 1948. 275.29 N811  
Contouring.
- 26066 EGYPT. MINISTRY OF AGRICULTURE. A note on the stabilization of the sand dunes of Egypt, by M. Drar. Cairo, 1948. 6 p. 56.7 Eg9
- 26067 EGYPT. MINISTRY OF AGRICULTURE. Soil erosion in the Middle East. Cairo, 1948. 2 p. 56.7 Eg9S
- 26068 FOSTER, R. L. Nervous plains tied down. *Capper's Farmer* 60(2): 16, 33. Feb. 1949. 6 M693  
Regrassing the Southern Great Plains.
- 26069 FOX, A. C. Oliver County schools look at the land. *N. Dak. Outdoors* 11(6): 8, 10. Dec. 1948. 412.9 N815  
Soil conservation educational program.
- 26070 GOWEN, A. Saving soil and water. *Cotton Gin & Oil Mill Press* 50(1): 9-10. Jan. 8, 1949. 304.8 C822
- 26071 GOWEN, A. There goes that farm again. *Southwest. Crop & Stock* 3: 10-11, 40. Jan. 1949. 6 So8942  
Wind erosion in Texas.
- 26072 GUNDIAN, V. B. Erosión, cáncer del suelo. Santiago de Chile, Impr. Universitaria, 1947. 24 p. 56.7 G95
- 26073 HERNANDEZ, J. R. Nuestra misión en un programa de conservación de suelos. *Rev. de Agr. de Puerto Rico* 39(1): 50-52. Jan./June 1948. 8 R325
- 26074 ILLINOIS. DEPT. OF PUBLIC INSTRUCTION. The conservation training program for teachers. Ed. Press B. 1948: 13-17. May 1948. 279 IL6  
Includes soil and forest conservation.
- 26075 IOWA FARM AND HOME REGISTER. All Iowa soil conservation field day. Des Moines? 1948. Folder. 56.7 Io92
- 26076 LANG, B. Martin-Howard District refits a farm in a day. *Southwest. Crop & Stock* 3: 12-13, 33. Jan. 1949. 6 So8942
- 26077 LOWDERMILK, W. C. Dispatch from North Africa. *Land* 7: 418-420. Autumn 1948. 279.8 L22  
Soil erosion.
- 26078 LOWDERMILK, W. C. Erosion and civilization. *N. Y. Farmers. Proc.* 1947/48: 99-114. 4 N48P  
Discussion, p. 114-117.
- 26079 MACHADO, A. DE O. First round table on soil restoration and conservation. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(338): 13. Nov./Dec. 1948. 9.2 B733
- 26080 MAIA, D. Let us protect our soil. (In Portuguese.) *Campo [Rio de Janeiro]* 19(225/226): 11-12. Sept./Oct. 1948. 9.2 C15
- 26081 MARQUES, J. Q. A. Soil conservation in the coffee plantation. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 23: 258-263, 376-384, 448-454. Apr.-July 1948. 68.29 Sa63
- 26082 MARSHALL, V. C. Millions of eroding acres saved by soil conservation. *Amer. Brahman J.* 3(7 i.e. 8): 20-21. Nov. 1948. 43.8 Am33
- 26083 MAUER, T. C. Military kudzu. *Better Crops Plant Food* 33: 15-18, 44-45. Jan. 1949. 8 B46  
For erosion control on military installations.
- 26084 MILLER, M. F. Let's look at the soil. *Mo. Agr. Expt. Sta. C.* 330, 47 p. July 1948. 100 M693  
Chiefly soil conservation.
- 26085 OSORIO TAFALL, B. F. Los recursos renovables de México. *Rev. de Econ.* 12(1): 21-23. Jan. 15, 1949. 280.8 R3293  
Soil and forest conservation.
- 26086 PECK, R. B. Restoring wind-devasted lands. *Cattleman* 35(9): 30-31, 98. Feb. 1949. 49 C29
- 26087 PICASSO S., L. Erosión. *Agr. Austral* 14: 7439. Oct. 1948. 9.3 Ag842
- 26088 RANGHEL G., A. Las terrazas y su utilización en Colombia. *Agr. Trop.* 4(11): 37-40; (12): 36-41. Nov. 15-Dec. 15, 1948. 26 Ag8
- 26089 RAWLINGS, B. R. Is "education" enough? *Land* 7: 347-351. Autumn 1948. 279.8 L22  
Soil conservation and proper land use.
- 26090 REEVES, J. E. Safeguarding Kentucky's natural resources. *Ky. Col. Com. Bur. Business Res.* 14, 224 p. 1948. 280.9 K41  
Includes soil and forest conservation.
- 26091 RITCHIE, G. B. Soil erosion and some aspects of contour cultivation. *So. Austral. Dept. Agr. J.* 52: 136-140. Oct. 1948. 23 So84
- 26092 RUPP, R. G. Conservation Acres, a model farm. *Ext. Serv. Rev.* 20: 5. Jan. 1949. 1 Ex892Ex  
A miniature farm in Minnesota to teach soil conservation.
- 26093 SCOTT, M. J. F. F. A. sponsors soil-air tour. *Agr. Ed. Mag.* 21: 164. Jan. 1949. 275.8 Ag8
- 26094 SEARS, P. B. Dust in the eyes of science. *Land* 7: 341-346. Autumn 1948. 279.8 L22  
Dust storms.



- 26095 SINGH, R. P. Soil erosion in Rajputana. I. Indian J. Agr. Econ. 3(2): 58-67. (To be cont.) Sept. 1948. 281.8 In2
- 26096 SMITH, D. D., WHITT, D. M., and MILLER, M. F. Cropping systems for soil conservation. Mo. Agr. Expt. Sta. B. 518, 26 p. Sept. 1948. 100 M693
- 26097 SMITH, T. L. La posesión de la tierra y la erosión del suelo en Colombia. Agr. Trop. 4(12): 29-35. Dec. 15, 1948. 26 Ag8
- 26098 STOESEZ, A. D., and HELM, H. J. Grass—a tool in soil conservation. J. Soil & Water Conserv. 3: 155-158, 188. Oct. 1948. 56.8 J822
- 26099 TOBAR CARREÑO, R. La erosión de los suelos. Rev. Nac. de Agr. [Bogotá] 41(508): 33-36. Aug. 1947. 9.4 R32
- 26100 U. S. SOIL CONSERVATION SERV. Report, 1947/48. Washington, 1948. 81 p. 1.6 So3R
- 26101 VICTORIA. SOIL CONSERVATION BOARD. Eighth annual report for year ended 30th June, 1948. 1948. 7 p. 56.9 V66A
- 26102 VIETAS, J., JR. Brazil's public enemy No. 1: erosion. Cotton Trade J. Internatl. Ed. (1948/49) 16: 130-133, 137. 1948. 72.8 C8214I
- 26103 WAITZ, P. Algunas ligeras ideas acerca del problema de las tolvaneras del Valle de Mexico. Ingen. Hidrául. en Méx. 2(1): 8-13. Jan./Mar. 1948. 290.8 In43 Summaries in Portuguese and English.
- 26104 WHEATON, R. Preventing soil erosion on Kangaroo Island. So. Austral. Dept. Agr. J. 52: 192-193. Nov. 1948. 23 So84
- 26105 WILSON, M. L. Woodpiles and habit patterns. Land 7: 395-396. Autumn 1948. 279.8 L22
- Soil conservation education.

#### Sanitation

- 26106 BROWN, C. A. C., and WAKEFORD, P. Electrical soil sterilization by immersion heaters. London, 1947. 17 p. 335 B814Es
- 26107 CLAYTON, E. E., and others. Soil treatments with chemicals for the control of tobacco parasites. (Abs.) Phytopathology 39: 4-5. Jan. 1949. 464.8 P56 J. G. Gaines, T. W. Graham, and F. A. Todd, joint authors.
- 26108 GILLARD, S. O. Chemical disinfection of glasshouse soil for tomato crops. New Zeal. J. Agr. 77: 501. Nov. 1948. 23 N48J
- 26109 KINCAID, R. R., and VOLK, G. M. Soil fumigation for cigar-wrapper tobacco fields. Fla. Agr. Expt. Sta. Press B. 655, 4 p. Oct. 1948. 100 F66F
- Effects on nematodes and on soil fertility. Abstract in Phytopathology 39: 11. Jan. 1949. 464.8 P56
- 26110 PICKETT, J. Get away from that tomato, you "knothead." Calif. Farmer, North. Ed. 190: 32. Jan. 15, 1949. 6 C126
- Soil fumigation for control of nematodes.
- 26111 SCHMITT, C. G. Comparison of volatile soil fungicides. (Abs.) Phytopathology 39: 21. Jan. 1949. 464.8 P56
- 26112 SMITH, A. L. Control of cotton wilt and nematodes with a soil fumigant. Phytopathology 38: 943-947. Dec. 1948. 464.8 P56
- 26113 ZENTMYER, G. A., and KLOTZ, L. J. Soil fumigants for control of Phytophthora root rots. (Abs.) Phytopathology 39: 26-27. Jan. 1949. 464.8 P56

#### MATERIALS FOR SOIL IMPROVEMENT

- 26114 ALBÁN MESTANZA, E. Prospecto de las propiedades y uso del abono nacional Foscatol. Manabí, Ecuador. Consorcio de Cent. Agr. B. 11(56): 7-13. Oct./Dec. 1948. 9.5 M31
- 26115 BRIOLINI, M. Manures and fertilizers. (In Italian.) Romagna Agr. e Zootec. 33(11): 2. (Concl.) Nov. 1948. 16 R66
- 26116 BLONDEL, L. Augmentez vos rendements; abaissez votre prix de revient par l'emploi du fumier artificiel et l'utilisation des marcs de raisin. Algeria. Insp. Gén. et Dir. de l'Agr. Docs. et Renseign. Agr. B. 148, 7 p. 1943. 24 AL34
- 26117 DAVIS, R. O. E. Forty years of fertilizer research. Chem. & Engin. News 27: 410-412. Feb. 14, 1949. 381 J825N

- 26118 DEWAN, M. L., and DUTT, A. K. Importance of bone fertilizers. Sci. and Cult. 12: 435-438. Mar. 1947. 475 Sci24
- 26119 JERNA, G. Cavour, merchant and manufacturer of commercial fertilizers. (In Italian.) Ital. Agr. 85: 691-694. Dec. 1948. 16 It1
- 26120 LANE, T. Soil Builders, Inc. Com. Fert. 78(2): 43. Feb. 1949. 57.8 C73
- Sewage utilization.
- 26121 LEAL, M. Diferentes clases de abono. Campo [La Paz] 2(16): 49. Aug. 1948. 9.1 C15
- 26122 MASSACHUSETTS FERTILIZER CONTROL SERV. Inspection of commercial fertilizers and agricultural lime products. Mass. Agr. Expt. Sta. Control Ser. B. 137, 16 p. July 1948. 100 M38H
- 26123 MIRALLES, E. C. Los abonos químicos y su olor. Cult. Mod. 30: 450. Dec. 1947. 15 C89
- 26124 NUILA LÓPEZ, L. La preparación de estiércol artificial por el agricultor. Rev. Ganad. [San Salvador] 8(106/107): 13-14. Sept./Oct. 1948. 8 R3292
- 26125 PERALTA, P. E. Los abonos orgánicos. Campo y Suelo Argentino 32(385): 38. Nov. 1948. 9 C15
- 26126 SUNDERLAND, D. Fertilizers, and where they come from. Through Leaves 26, i. e. 36(6): 37-40. Nov./Dec. 1948. 66.8 T41
- 26127 TROWBRIDGE, E. A., L'HOTE, H. J., and BREUER, J. R. Fertilizer inspection and analysis; fall 1947. Mo. Agr. Expt. Sta. B. 516, 37 p. July 1948. 100 M693
- 26128 VAN ZYL, J. P. Fertiliser control for 1949. Primary Prod. [Cape Town] 24(1): 7, 11. Jan. 7, 1949. 281.8 P93

#### Primary Materials

- 26129 ANDREWS, W. B. The use of anhydrous & aqua ammonia as sources of nitrogen. Cotton Trade J. Internatl. Ed. (1948/49) 16: 159-162. 1948. 72.8 C8214I
- 26130 ARAÚJO, J. B. DE, and PINTO, C. M. Solubility of some natural phosphates. (In Portuguese.) Lavoura 52: 25-28. Sept./Oct. 1948. 9.2 L39
- Brazil.
- 26131 BELL, M. A. La fabricación de fosforos. Hacienda 44(1): 74, 76. Jan. 1949. 6 H11
- 26132 GAMARRA DULANTO, L. Que fertilizantes sintéticos deberían fabricarse en el país? 2. Vida Agr. [Lima] 25: 861, 863, 865, 867, 869. Oct. 1948. 9.8 V66
- Also in Agronomía [Lima] 3(55): 29-48. 1948. 9.8 Ag83
- 26133 JUGUET, E. Les engrais chimiques. Agr. du Sud-Est (n. s.) 55(20): 1-2; (21): 2. Dec. 5-26, 1948. 14 Ag88
- 26134 MÉTIVIER, S. Sur la fabrication des phosphates assimilables sans acide sulfurique. Prog. Agr. et Vitic. 1949: 15-16. Jan. 2/9, 1949. 14 P94
- 26135 PROSPEKT über superphosphat und seine richtige anwendung. n. p., 1947. 4 p. 57.24 P94
- 26136 RUTH, E. Anhydrous ammonia gas—type nitrogen fertilizer; increased yields reported as a result of application of ammonia indicate rapid growth and easier cultivation. Impl. & Tractor 64(3): 46-47, 94, 100. Feb. 5, 1949. 58.8 W41

#### Secondary and Minor Element Materials.

- 26137 CUNNINGHAM, I. J., and PERRIN, D. D. Copper compounds as fertilizers for pastures deficient in copper. New Zeal. Dept. Agr. Anim. Res. Div. P. 36: 252-285. 1947. 49.9 N482P
- 26138 NARAYANAN, T. R. The place of minor elements in growing food crops with special reference to rice. Madras Agr. J. 35: 271-275. Oct. 1948. 22 M262
- 26139 TROCME, S. Oligoéléments et maladies de carence (III). B. des Engrais 20: 440-442. Oct. 1948. 57.8 B87

#### Mixed Fertilizers and Fertilizer Technology

- 26140 CHOQUET, A. Comment composer un mélange d'engrais complets. Jard. Ouvrier de France 1948: 7. July/Aug. 1948. 80 J283
- 26141 DAVIES, G. R., DITCHAM, J. B., and GREAVES, W. S. Caking of fertilizers. Chem. Age 60: 194-197. Jan. 29, 1949. 382 C427



- 26142 FONDARD, L. Les engrais composés. Réveil Agr. 57: 353. (To be cont.) Dec. 1, 1948. 14 R322
- 26143 FOURGEAUD, J. Les engrais de mélange. Bouches du Rhone Agr. 22(994): 7. (Concl.) Jan. 15, 1949. 14 B662
- 26144 LEGER, J. E. Etude mathématique de la granulation des engrais. Indus. Chim. 35: 227-230. Dec. 1948. 383 In2
- 26145 MIEGE, E. Les éléments d'une fumure équilibrée. Inform. Maroc. 406: 1, 4. Oct. 24, 1948. 281.8 In3
- 26146 SCHALL, E. D., and FORD, O. W. Effect of alcohol concentration and saturation of the acid alcohol with  $K_2PtCl_6$  in the analysis of potash in fertilizers. Assoc. Off. Agr. Chem. J. 31: 397-400. May 15, 1948. 381 As7
- 26147 SHERWIN, K. A., and STEVENSON, J. W. Compound-fertiliser granulation. Chem. Trade J. 124: 95-97. Jan. 28, 1949. 382 C422

#### Fertilizer Statistics

- 26148 ANGLADETTE, A. Le problème des engrais en Indochine. Saigon, 1947. 52 p. (Supplément au Bulletin de Renseignements Economiques. 6) 56.6 An4
- 26149 CANADA. BUR. OF STATISTICS. INDUSTRY AND MERCHANDISING DIV. MINING, METALLURGICAL & CHEMICAL SECT. The fertilizer trade in Canada, July 1, 1947 - June 30, 1948. Ottawa, 1949. 17 p. 57.9 C162
- 26150 CLAPP, G. R. The TVA and the fertilizer industry. Amer. Fert. 109(12): 10-11, 20, 22; (13): 11, 26, 28. (Cont.) Dec. 11-25, 1948. 57.8 Am3
- 26151 COLEMAN, R. Broadening the fertilizer market. Amer. Fert. 109(11): 11, 26, 28. Nov. 27, 1948. 57.8 Am3
- Also in Com. Fert. 77(6): 32-34, 44. Dec. 1948. 57.8 C73
- 26152 COLEMAN, R. Fertilizer faces the future. Fert. Rev. 24: 3-7, 14. Jan./Feb. 1949. 57.8 F414
- 26153 DOETSCH, J. F. Chilean nitrate supplies for 1949 crops. Victory Farm Forum 33: 2. Dec. 1948. 281.8 F226
- 26154 FUDGE, J. F., and OGIER, T. L. Commercial fertilizers in 1947-48. Tex. Agr. Expt. Sta. B. 705, 48 p. Sept. 1948. 100 T31S
- Includes sale statistics and analyses of fertilizer samples.
- 26155 GISH, R. E. Fertilizer now available in greater amounts, but high analysis carriers of nitrogen and potassium are still scarce. Ill. Agr. Assoc. Rec. 26(12): 12-13. Dec. 1948. 6 IL62
- 26156 HUANG, J. C. A general planning on the development of chemical fertilizer industry in China. China. Natl. Resources Comm. Q. J. 8(1): 6-9. Mar. 1948. 280.9 C445
- 26157 KING, R. The fertilizer situation. Amer. Fert. 109(11): 9-10, 22, 24, 26. Nov. 27, 1948. 57.8 Am3
- Also in Crops & Soils 1(4): 14-15. Jan. 1949. 6 W66; Agr. Chem. 4(1): 30-31, 76-77. Jan. 1949. 381 Ag8
- 26158 KING, R. Light and dark spots show in fertilizer materials situation. Grain & Feed Rev. 38(5): 14, 61. Jan. 1949. 280.26 C78
- 26159 LE BOT, M. La répartition des engrais. Anjou Agr. 3(107): 2. Dec. 10, 1948. 14 An5
- 26160 OVERSETH, O. E. What do fertilizers cost? Calif. Farmer, South. Ed. 190: 9. Jan. 1, 1949. 6 C126A
- 26161 SILFVERSWÄRD, H. The fertilizer regulation during the years 1947/48 and 1948/49. (In Swedish.) Sweden. Kommerskol. Jordbruksekonom. Uppgifter 10: 341-345. Dec. 1948. 257.3 J76
- 26162 TAYLOR, G. The Fertilisers and Feeding Stuffs Act and some analytical implications. London, 1948. 23 p. (Streafeld Mem. Lecture 30) 57 T21
- 26163 VOL'FKOVICH, S. I., and DUBOVITSKII, A. M. Production of mineral fertilizers in U. S. S. R. for 30 years. (In Russian.) Khim. Promysh. 1947: 331-338. Nov. 1947. 385 K523

#### Mineral Soil Amendments

- 26164 AXTELL, J. D. Gypsum is an excellent soil conditioner. Calif. Farmer, South. Ed. 190: 17. Jan. 1, 1949. 6 C126A

- 26165 MEJIA, A. Industria de sales de soda en Zipaquirá; cal para la agricultura. Rev. Nac. de Agr. 41 (506): 31-34. June 1947. 9.4 R32
- 26166 RUPP, E. New idea on limestone. Mo. Ruralist 90(2): 18-19. Jan. 22, 1949. 6 R8891
- Work of Dr. W. D. Keller.

#### Manures and Composts

- 26167 ACHARYA, C. N. Compost development in India. Foreign Agr. 13: 16-18. Jan. 1949. 1.9 Ec7For
- 26168 ATTOE, O. J. Shavings for bedding save plant food. Hoard's Dairyman 94: 18. Jan. 10, 1949. 44.8 H65
- Bedding material that will absorb liquid manure.
- 26169 AVILA, E. La industria peruana del guano. Hacienda 44(2): 39-41. Feb. 1949. 6 H11
- 26170 BLANES, F. Conveniencia y necesidad de cuidar el estiércol. Balearic Isl. Diputación Prov. B. de Agr. 1948(49): 6-7. Oct. 1948. 15 B19
- 26171 BOHNE, H., and GROSSE-BRAUCKMANN, E. Der stickstoff- und phosphorsäuregehalt des rinder- und pferdekots. Neue Mitt. f. die Landw. 3: 226-227. Aug. 5, 1948. 18 N39
- 26172 BOISCHOT, P., and BARBIER, G. La sciure de bois comme source d'humus. Acad. d'Agr. de France. Compt. Rend. 34: 901-902. Nov. 10/17, 1948. 14 P215Bc
- 26173 COMIN, D. Home made fertilizer. Farm Q. 3(4): 32-35, 100-105. Winter 1948. 6 F22995
- 26174 DROUINEAU, G., and LEFÈVRE, G. Étude analytique du compostage des marcs de raisin. Acad. d'Agr. de France. Compt. Rend. 34: 865-867. Oct. 13/20, 1948. 14 P21Bc
- 26175 FISHER, J. L. Let's follow the horses. Organic Gard. 14(2): 43-44. Feb. 1949. 56.8 Or3
- Manure.
- 26176 GOETHE, C. M. Guano. n. p., n. d. 2 p. 57.25 G55
- Reprinted from Twenty-Thirdian.
- 26177 HOLDEN, J. The effect of humus on plants and pests. New Zeal. Homes & Gard. 18(10): 11-12. Jan. 1, 1949. 80 N4823
- 26178 HUMBERT, W. Conservation de l'humus. Agr. Prat. 112: 428. Dec. 1948. 14 J82
- 26179 KARIM, A. Microbiological decomposition of water hyacinth. Soil Sci. 66: 401-416. Ref. Dec. 1948. 56.8 So3
- In compost and in soil.
- 26180 KENNELLY, A. G. Organic material for the home garden. New Zeal. J. Agr. 77: 595, 597, 599-600. Dec. 1948. 23 N48J
- 26181 KLEERMAEKER, K. J. B. DE., and ROWAAN, P. A. Organic natural fertilizers. (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 5: 567-570. Dec. 1948. 12 N383M
- Manures and composts.
- 26182 KREUZ, A. Landwirtschaftliche abwasserwertung gegen hungersnot. Hannover, Schaper, 1947. 47 p. (Schriftenreihe der Vereinigung Deutscher Wasser- u. Bodenverbände. 1) 293 K883
- 26183 MARTIN, T. L. Don't waste manure. Sugar Beet 7(8): 28-29. Dec. 1948. 66.8 Su34B
- 26184 MURAIAMA, S. J. Barnyard manure as an organic fertilizer. (In Portuguese.) Rev. dos Criadores 19(11): 63-64. Nov. 1948. 43.8 R32
- 26185 PEREZ GARCIA, M. Abonos orgánicos o compostes. Rev. de Agr. de Puerto Rico 39(1): 22-30. Jan./June 1948. 8 R325
- 26186 PFEIFFER, E. Composting and soil problems in southern, warm and dry climates. Organic Gard. 14: 39-42. Jan. 1949. 56.8 Or3
- 26187 PLAUT, M., and HURWITZ, S. Organic substitutes for animal manure. I. Huminal. Jewish Agency for Palestine. Agr. Res. Sta. B. 46, 35 p. Ref. Mar. 1947. 107 Z6
- 26188 PONTING, C. My method of composting garden rubbish. Pop. Gard. 50: 397. Dec. 18, 1948. 80 G1622
- 26189 SAINT-QUENTIN, M. Le purin, bon engrais pour les pâtures. Rustica 22: 3. Jan. 2, 1949. 14 R92
- 26190 STEIGER-WARDIN, O. Was kostet der stall-dünger? Neue Mitt. f. die Landw. 3: 103-104. Apr. 5, 1948. 18 N39
- Germany.



- 26191 STREICHER, E. Nährstoffgehalt u. nährstoffwirkung des stallmistes. Saat u. Ernte 3(11): 5. Nov. 1948. 18 Sa12
- 26192 TSCHIRSCHKY, O. VON. Der streustrohbedarf eines landwirtschaftlichen betriebes. Neue Mitt. f. die Landw. 3: 485-486. Dec. 25, 1948. 18 N39
- Compost preparation.
- 26193 U. S. INSTITUTE OF INTER-AMERICAN AFFAIRS. Como se hace el abono compuesto. Washington, 1948? 15 p. 173.3 In83Co
- 26194 WATTS, G. S. How to make compost. Pa. Farmer 140: 70, 88. Jan. 22, 1949. 6 P383
- 26195 WEEBER, G. Düngung mit hormonen. Gart.-Z. Illus. Flora 71: 179-180. Dec. 1948. 80 G1991
- Manures.
- 26196 ZUTAVERN, O. Die stallmistgleichung in neuer form. Neue Mitt. f. die Landw. 3: 48. Feb. 21, 1948. 18 N39

## FORESTRY

## FOREST ECONOMICS AND POLICY

- 26197 ALLOUARD, P. Problèmes techniques posés par le débitage des bois coloniaux. Rev. du Bois 3(11): 4-12. Nov. 1948. 99.82 R32
- Indo-China.
- 26198 BARCELÓ, J. L. La repoblación forestal en Portugal. Ceres [Valladolid] 12(150): 25. Dec. 1, 1948. 15 C33
- 26199 BIGLEY, M. What is private forestry doing in Oregon and Washington? Timberman 50(4): 54, 56. Feb. 1949. 99.81 T484
- 26200 BURKART, E. Bemerkungen zur vermögens- und vermögenszuwachsabgabe in der forstwirtschaft. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 169-171. Nov. 1948. 99.8 AL53
- 26201 COFFEY, T. M. Afforestation for Bengal. Indian Forester 73: 486-488. Nov. 1947. 99.8 In2
- 26202 CURTIS, M. I. Conservation in America. Chicago, Lyons & Carnahan, 1947. 118 p. 279.12 C94
- Forest and soil conservation.
- 26203 DECHSLIN, M. Die bundesfinanzreform und die schweizerische waldwirtschaft. Grüne 76: 1206-1209. Nov. 12, 1948. 17 Sch9
- 26204 DIETERICH, V. Die gemeinwirtschaftliche bedeutung grösseren privatwaldbesitzes. Ludwigsburg, Ulmer, 1948. 35 p. 99.66 D56
- 26205 DORMAN, K. W. Southern hardwoods, asset or liability. Forest Farmer 8(5): 10, 22. Feb. 1949. 99.8 F7692
- 26206 EVANS, J., and FARQUHAR, J. D. Forestry in Palestine under the mandate. Empire Forestry Rev. 27: 219-226. Ref. Dec. 1948. 99.8 Em72
- 26207 FOURNET, L. Fonds forestier national et fonds de solidarité agricole. Bois 65(23): 1-3. Dec. 25, 1948. 99.82 D632
- 26208 FRANCIS, D. A. Notes on forestry in Newfoundland. Empire Forestry Rev. 27: 245-252. Dec. 1948. 99.8 Em72
- 26209 GODARD, D. Les hommes dans la forêt coloniale. Bois et Scieries 54: 890-893. Nov. 18, 1948. 99.81 B632
- 26210 GOMES, P. More wood. (In Portuguese.) Lav. Arroz. 2(22): 23. Oct. 1948. 59.8 L39
- Reforestation in Brazil.
- 26211 GOMES, P. The sugar industry and reforestation. (In Portuguese.) Brasil Açucareiro 32: 356-359. Sept./Oct. 1948. 65.8 B73
- 26212 GONET, C. La réforme constitutionnelle des finances de la Confédération et l'économie forestière. Schweiz. Z. f. Forstw. 99: 583-595. Nov. 1948. 99.8 J82
- German summary.
- 26213 HASEL. Die forstverwaltung in der krise der bürokratie. Holz-Zentbl. 74: 551, 553. Nov. 23, 1948. 99.81 H742
- 26214 HENCH, M. There is a job to be done. Forest Leaves 38(5): 12-13. Nov./Dec. 1948. 99.8 F763
- Reforestation and soil conservation.
- 26215 HUBERMAN, M. A. Forests in ferment. Amer. Forests 55(2): 15-16, 45-48. (To be cont.) Feb. 1949. 99.8 F762
- Forest conditions in the Far East.
- 26216 LEHMANN, C. A. Kostenrechnung und kalkulation. Holz-Zentbl. 74: 548, 570-571, 577. Nov. 23, 30, 1948. 99.81 H742
- 26217 LØCHEN, R. Expropriation of forests for the benefit of agriculture or other industries. (In Norwegian.) Tidsskr. for Skogbruk 56: 218-223. Sept. 1948. 99.8 T432
- 26218 MARTÍNEZ, P. Hay que fomentar la reforestación en la comarca. Agr. Lagunero 3(30/31): 18. Oct./Nov. 1948. 8 Ag824
- 26219 PATRONE, G. Industrialize the mountains. (In Italian.) Ital. Forest. e Mont. 3: 251-253. Sept./Oct. 1948. 99.8 It12
- Need for reclamation and reforestation.
- 26220 PLAUSIC, M. Détermination de la "taxe forestière." (In Croatian.) Glasnik za Sumske Pokuse 9: 259-291. 1948. 99.9 Z1
- French summary.
- 26221 POIRÉE. Reboisement et remembrement. Génie Rural 41: 311-313. Nov. 1948. 58.8 Au8
- France.
- 26222 PRINGLE, S. L. Is there enough wood? Forest & Outdoors 45: 10-11. Jan. 1949. 99.8 C16
- 26223 RIBSSKOG, H. Note on forest valuation in Denmark. (In Norwegian.) Skogbrukeren 23: 263. Dec. 1, 1948. 99.8 Sk54
- 26224 ROF CODINA, J. Una restauración que España debiera imitar. Cult. Mod. 31: 335-336. Sept. 1948. 15 C89
- Reforestation.
- 26225 ROWE, R. How shall we use our national forests? West. Farm Life 50(20): 9, 36. Oct. 15, 1948. 6 R153
- 26226 SAITO, S. Japan's timber requirements and forestry conditions. Mitsubishi Econ. Res. Inst. Monthly C. 226/227: 8-11. Sept./Oct. 1948. 280.8 M69
- 26227 SANDMO, J. K. On national rates for logging. (In Norwegian.) Skogbrukeren 23: 266, 268. Dec. 1, 1948. 99.8 Sk54
- Labor rates.
- 26228 SASKATCHEWAN. BUR. OF PUBLICATIONS. The new North. Saskatchewan's northern development program, 1945-1948. Regina, 1948. 36 p. 280.137 Sa75N
- Includes forestry policies.
- 26229 STEPP, H. Neue rechtsgründe zum thema "währungsumstellung und holzkaufverbindlichkeiten." Holz-Zentbl. 74: 525-526. Nov. 16, 1948. 99.81 H742
- Germany.
- 26230 STEPP, H. Währungsumstellung und holzkaufverbindlichkeiten. Holz-Zentbl. 74: 557. Nov. 23, 1948. 99.81 H742
- Germany.
- 26231 TAYLOR, W. L. The influence of forestry on the community. Empire Forestry Rev. 27: 215-218. Dec. 1948. 99.8 Em72
- 26232 U. S. FOREST SERV. Forests and national prosperity; a reappraisal of the forest situation in the United States. U. S. D. A. Misc. P. 668, 99 p. Aug. 1948. 1 Ag84M
- 26233 WOYTE, H. Die rechtsnatur der überweisung zum thema "währungsumstellung und kaufpreisverbindlichkeiten." Holz-Zentbl. 74: 535. Nov. 19, 1948. 99.81 H742
- Germany.
- 26234 ZIVNUSKA, J. A. Commercial forestry in an unstable economy. J. Forestry 47: 4-13. Ref. Jan. 1949. 99.8 F768
- Legislation
- 26235 ARGENTINA. MINISTERIO DE AGRICULTURA. Defensa de la riqueza forestal. Ley No. 13.273. Argentina. Dir. de Inform. P. Misc. 300, 16 p. 1948. 9 P943
- 26236 HOLAND, P. Woods for home use. (In Norwegian.) Tidsskr. for Skogbruk 56: 211-217. (To be cont.) Sept. 1948. 99.8 T432
- Forest legislation and community forests in Norway.
- 26237 OREGON. LAWS, STATUTES, ETC. Oregon forest laws, 1947. Oregon compiled laws annotated with 1941, 1943, 1945 and 1947 additions, repeals and amendments. Salem, Rogers, 1947. 104 p. 99.59 Or3F
- 26238 PETITMERMET. Swiss Federal legislation on forests. Forest & Agr., Internatl. Law J. 3: 17-29. Jan./June 1948. 281.8 F732



- 26239 SWEDEN, LAWS, STATUTES, ETC. Kungl. Maj:ts proposition till riksdagen med förslag till skogsvårdslag m. m.; given Stockholms slott den 16 januari 1948 [His Majesty's message to the Parliament with proposal for a forest protection law etc.; given at Stockholm's castle January 16, 1948]. Stockholm, 1948. 190 p. (Sweden. Kungl. Maj:ts Proposition 34) 99.59 Sw3K
- 26240 U. S. FOREST SERV. [State forestry laws of Oklahoma.] Washington, 1948. 17 p. 1.9 F7681C  
Similar compilations for other States.

## FOREST DESCRIPTION AND RESOURCES

- 26241 BACHMANN, E. Minnesotans: your forests! Conserv. Volunteer 11(67): 44-49. Nov./Dec. 1948. 279.8 C765
- Resources.
- 26242 CHAKRAVARTI, R. The bamboo forests of Raigarh State. Indian Forester 73: 490-495. Nov. 1947. 99.8 In2
- 26243 FARQUHAR, J. D. A Mediterranean tour, 1947. Empire Forestry Rev. 27: 253-256. Dec. 1948. 99.8 Em72
- 26244 FEUCHT, O. Die bäume und sträucher unserer wälder. Ed. 5. Stuttgart, Schröder, 1948. 127 p. 459.3 F43B
- 26245 FRÖHLICH, J. Aus dem plenterwalde am Gmundnerberg. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 173-175. Nov. 1948. 99.8 AL53
- 26246 GABRIELSON, G. Mark- och standskogsstudier inom Kristinehamns Revir. [Studien über wald und boden im Revier Kristinehamn]. Norrtälje, Norrtälje Tidnings Boktr., 1948. 55 p. 99.34 G11
- 26247 GENERAL forest type group locations. Croquis mostrando la distribución de los bosques en El Salvador, 1946. n. p., 1947? map. 99.23 G28
- 26248 GT. BRIT. FORESTRY COMMISSION. Forest of Ae. London, 1948. 12 p. 99.66 G799F
- 26249 GREGORY, J. M. End of romance, Tillery Forest is lumberland now. South. Lumber J. 53: 20, 22. Jan. 10, 1949. 99.81 So8
- 26250 HERBIGNAT, A. Excursion annuelle en Hollande. Soc. Cent. Forest. de Belg. B. 55: 417-436. Nov. 1948. 99.9 B83
- 26251 HOGELAND, C. The Sproul State Forest. Forest Leaves 38(5): 6-7. Nov./Dec. 1948. 99.8 F763
- 26252 HOSLEY, N. W. Black Rock Forest. Amer. Forests 55: 12-13, 48. Jan. 1949. 99.8 F762
- 26253 HUBERMAN, M. A. Through the forests of Asia and the Pacific. Yale Forest School News 37: 4-6. Jan. 1949. 99.8 Y1
- 26254 HVOSLEF, O. Forest excursion in North-Rogaland. (In Norwegian.) Skogbrukeren 23: 270-271. Dec. 1, 1948. 99.8 Sk54
- 26255 LALLEMAND, La forêt Girondine. 10. Bois et Résineux 30(1479): 1. Nov. 30, 1948. 99.82 B63
- 26256 LARDNER, G. B. S. Commercial timbers of the Amazon. Wood [London] 14: 9-11. Jan. 1949. 99.82 W855
- 26257 LARSON, R. J. Saw-timber supply decreasing in South Carolina. South. Lumberman 178(2227): 58, 60, 62. Jan. 15, 1949. 99.81 So82
- 26258 MAYER-REINACH, C. Südamerika als holz-reservoir. Holz-Zentbl. 74: 507, 513, 517-518. Nov. 9-12, 1948. 99.81 H742
- 26259 MORE, R. E. Timberline trees. Green Thumb 6: 4-17. Jan. 1949. 80 G82
- Photographs.
- 26260 PINO, R. A. R. DEL. El bosque xerófilo, principal riqueza regional. Rev. Mens. B. A. P. 31(369): 26-30. Aug. 1948. 9 R326
- 26261 RATURI, P. D. Industrial survey report of Tehri Garhwal State. Indian Forester 73: 479-486. Nov. 1947. 99.8 In2
- 26262 ROTTIN, B. Dans la vallée du Rhone. Bois et Scieries 54: 935-937, 1013-1014. (Cont.) Dec. 2, 23, 1948. 99.81 B632
- 26263 SCHOFIELD, M. Fortunes of a royal forest. Country Life [London] 104: 1272-1273. Dec. 17, 1948. 80 C83
- Wyre Forest.
- 26264 SMITH, H. L. An Irish forest. Amer. Forests 55: 22-23. Jan. 1949. 99.8 F762
- 26265 SOUTH CAROLINA. RESEARCH, PLANNING AND DEVELOPMENT BD. Third annual report... for the fiscal year 1947-48. 1948. 72 p. 280.7 So8293  
Includes chapters on forest and agricultural resources.

- 26266 U. S. FOREST SERV. Olympic National Forest, Washington. Washington? 1948. Map. 1 F765Ma
- 26267 U. S. FOREST SERV. Our National forests; report of the Chief of the Forest Service, 1947/48. Washington, 1948. 54 p. 1 F76
- 26268 WOLOWITCH, D. Ressources forestières de la Guyane française. Bois et Forêts des Trop. 7: 222-226. Third Quart. 1948. 99.8 B632
- 26269 WOODS, J. B. Forests of New Mexico. Amer. Forests 55: 26-27, 46-48. Jan. 1949. 99.8 F762
- 26270 ZIEGLER, E. A. Austin Cary Memorial Forest. Amer. Forests 55(2): 32, 40. Feb. 1949. 99.8 F762  
Florida.

## Individual Genera and Species

- 26271 BREITENBUCHER, H. J. Le débit des résineux. Rev. du Bois 3(11): 16-19. (To be cont.) Nov. 1948. 99.82 R32
- 26272 BRUSH, W. D. Overcup oak, Quercus lyrata, Walter. Amer. Forests 55(2): 28-29. Feb. 1949. 99.8 F762
- 26273 BRUSH, W. D. Spruce pine, Pinus glabra, Walter. Amer. Forests 55: 28-29. Jan. 1949. 99.8 F762
- 26274 CORNELL, C. El cultivo de los sauces en el Delta. Campo y Suelo Argentino 32(386): 26-27. Dec. 1948. 9 C15
- 26275 DANNECKER. Die weisstanne geht in unseren wäldern zurück! Württemb. Wchnbl. f. Landw. 115: 410. Dec. 25, 1948. 18 W96
- 26276 GODDING, R. Un arbre de boisement intéressant pour les régions d'altitude du Congo: l'Eucalyptus grandis (Hill) Maiden. B. Agr. du Congo Belge 39: 863-868. Dec. 1948. 24 K83
- 26277 HEIGHTON, H. The plane. Nature Lover 5: 533-535. Dec. 1948. 410 N218
- 26278 JEYADEV, T. In memorium (Nilambur teak plantations) 1846-1946. Indian Forester 73: 498-500. Nov. 1947. 99.8 In2
- 26279 KLEIN, S. The various species of cedar, their geographic distribution and uses. (In Italian.) Riv. Ital. Essenze, Profumi, Pianta Off., Olii Veg., Saponi 30: 467-471. Ref. Nov. 15, 1948. 308.8 R52
- 26280 MOORE, J. The Oregon myrtle [Umbellularia californica] a vanishing forest tree that needs friends. Nature Mag. 24(1): 37-38. Jan. 1949. 409.6 N214
- 26281 MÜLLER, R. Warum pappelwirtschaft? Holz-Zentbl. 74: 573. Nov. 30, 1948. 99.81 H742
- 26282 PODHORSKY, J. Die hopfenbuche (Ostrya carpinifolia Scop.). Schweiz. Z. f. Forstw. 99: 576-583. Ref. Nov. 1948. 99.8 J82  
French summary.
- 26283 UPHOF, J. C. T. The geographical distribution of Salix humboldtiana Willd. in comparison with the other Salix species. (In Dutch.) Nederland. Dendrol. Ver. Jaarb. 16: 76-82. 1947. 99.9 N28

## FOREST ADMINISTRATION AND MANAGEMENT

- 26284 ACKERS, C. P. Practical British forestry. Ed. 2. London, Oxford U., 1947. 394 p. 99.66 Ac5
- 26285 BERGEROO-CAMPAGNE, B. L'utilisation de l'avion dans les recherches forestières. Bois et Forêts des Trop. 7: 258-269. Third Quart. 1948. 99.8 B632
- 26286 CEYLON. FOREST CONSERVANCY. Administration report, 1947. Colombo, 1948. 17 p. 99.9 C33
- 26287 COCHIN. FOREST DEPT. Administration report, 1946/47. Ernakulam, 1948. 57 p. 99.9 C64
- 26288 CONARD, W. K. Selective marking for cutting. Forest Farmer 8(5): 12-13. Feb. 1949. 99.8 F7692
- 26289 DIETERICH, V. Zur neuregelung der forst-organisation in Südwestdeutschland. Holz-Zentbl. 74: 487-488. Nov. 2, 1948. 99.81 H742
- 26290 DUBRET, R. L'accession à la propriété. Bois et Scieries 54: 993-995. Dec. 16, 1948. 99.81 B632
- Housing of forest labor.
- 26291 EGAN, J. A. Forestry above the Mogollon rim. J. Forestry 47: 14-17. Jan. 1949. 99.8 F768
- 26292 EHRLICH, F. „Überhabsverkäufe“ von holzbeständen. Kärntner Bauer 98: 302-303. Sept. 15, 1948. 19 K14  
Forest management.



- 26293 FAMIGLIETTI, F. Considerations on the actuation levels for the restoration of the State Forestry Corps. (In Italian.) Ital. Forest. e Mont. 3: 288-308. Sept./Oct. 1948. 99.8 It12
- 26294 FAVRE, E. L'aménagement forestier en Suisse. Schweiz. Z. f. Forstw. 99: 561-576. Ref. Nov. 1948. 99.8 J82  
German summary.
- 26295 FORMOSA. FORESTRY ADMINISTRATION. Taiwan Lin-Ch'an Kuan Li ka-huang (General description of Taiwan Forestry Administration) Taipei, 1947. 325 p. 99.67 F76
- 26296 GAINES, E. M. Forest studies in south Alabama. Forest Farmer 8(5): 11, 14. Feb. 1949. 99.8 F7692
- 26297 GAZONNAUD, P. L'hélicoptère sera-t-il demain l'outil à tout faire de l'exploitant forestier d'outre-mer? Bois et Forêts des Trop. 7: 270-272. Third Quart. 1948. 99.8 B632
- 26298 GODARD, D. Les hommes dans la forêt coloniale. Bois et Scieries 54: 839-841. (Cont.) Nov. 4, 1948. 99.81 B632
- 26299 HELANDER, A. B. Management of the crown forest in Finland. (In Swedish.) Suomen Paperi-ja Puutavaraletti 30: 135-138, 221-223, 358-361, 412-414, 429-431. (To be cont.) 1948. 302.8 P1991
- 26300 HUTCHINSON, F. E. Masonite Corporation develops industrial forest. I. Austral. Timber J. 14: 498-499, 502, 505-506, 559. Sept. 1948. 99.81 Au7
- 26301 HYRENIUS, H. Skogsbrukets arbetskraft [Forest labor]. Karlstad, Nermans Trycksaker, 1947. 119 p. 99.66 H99
- 26302 JANSEN. Stockholzrodung in eigenbetriebe der forstverwaltung. Forst u. Holz 3: 245-247. Dec. 15, 1948. 99.8 F7724
- 26303 KLUBACH. Vorbereitungen zum zweijahresplan in der forstwirtschaft. Forstw., Holzw. 2: 289-290. Oct. 1, 1948. 99.8 F7793  
Germany.
- 26304 KREBS, E. Die ermittlung des zuwachses bei der liegenden kontrolle der nutzungen. Schweiz. Z. f. Forstw. 99: 596-602. Nov. 1948. 99.8 J82  
French summary.
- 26305 KUMMER, G. Freye gedanken über die beschaffenheit unseres waldwesens samt den mittlen, dasselbe in eine bessere ordnung zu bringen wohlmeinend aufgesetzt im jener 1770 von Christoph Jetzler. Naturf. Gesell. Schaffhausen. Mitt. 22: 173-262. 1947/48. 508 Sch2
- 26306 LANGDALE, H., JR. Greater forest yield depends on profit for tree grower. South. Lumber J. 53: 84-85. (Extract.) Jan. 10, 1949. 99.81 So8
- 26307 NIGERIA. LEGISLATIVE COUNCIL. Forest Administration Plan, Nigeria, 1946-55, under a ten-year plan of development for Nigeria, 1946. Lagos, Govt. Printer, 1948. 42 p. 99.68 N563
- 26308 OREGON. STATE FORESTER. Forestry in Oregon; biennial report, 1946-48. Salem, 1948. 123 p. 99.9 Or32A
- 26309 PANEL discussion on forestry and public lands. Wyoming Wool Grower 3(22, sup.), 16 p. Dec. 23, 1948. 280.38 W99
- 26310 SCHRÖTTER, FREIHERR VON. Stockholzrodung in eigenbetriebe der forstverwaltung. Forst u. Holz 3: 247-248. Dec. 15, 1948. 99.8 F7724
- 26311 SIEBER. Die betriebsgewerkschaftsleitung im forstbetrieb. Forstw., Holzw. 2: 291-292. Oct. 1, 1948. 99.8 F7793  
Germany.
- 26312 STEBBING, E. P. On working plans. Indian Forester 74: 92-94. Mar. 1948. 99.8 In2
- 26313 TASMANIA. FORESTRY COMMISSION. Annual report, 2, 1947/48. Hobart, 1948. 22 p. 99.9 T182
- 26314 TYNDALL, J. H. Forestry in a great metropolitan area. J. Forestry 47: 29-35. Jan. 1949. 99.8 F768  
Cook County Forest Preserve District, Illinois.
- 26315 U. S. S. R. MINISTERSTVO LESNOGO KHOZIASTVA. Proizvodstvo i uchety lesnykh kul'tur [Af-forestation and accounting in forestry]. Ed. 2. Moskva, Gos. Lesotekhn. Izd-vo, 1948. 66 p. 99.47 Un33
- 26316 U. S. FOREST SERV. Statistical supplement, report of the chief of the Forest Service, 1948. Washington? 1948. 16 p. 1 F76
- 26317 WAGER, P. W., and HAYMAN, D. B. Resource management in North Carolina; a study in public administration. Chapel Hill, Inst. for Res. in Social Sci., U. of N. C., 1947. 192 p. 280.063 W12  
Includes forest conservation and land utilization.
- Farm Woodlands
- 26318 FOSTER, C. The farm woodlot; urge reduction of taxes on woodlands in Illinois to the point where they would be more in line with income from timber. Ill. Agr. Assoc. Rec. 26(12): 17, 34. Dec. 1948. 6 IL62
- 26319 GIBSON, H. B. Management of woodlots in the Douglas fir region of British Columbia. Brit. Columbia Lumberman 32(12): 45-46, 112, 114. Dec. 1948. 99.81 B77
- 26320 GORRIE, R. M. Farm forestry in the Punjab. Indian Forester 73: 435-437. Oct. 1947. 99.8 In2
- 26321 HAMILTON, A. P. F. Farm forestry in India. Indian Forester 74: 84-88. Mar. 1948. 99.8 In2
- 26322 HOWELL, H. A. Grow trees as a crop. Prog. Farmer, Miss.-Ark.-La. Ed. 64: 24. Jan. 1949. 6 So81  
Value of timber as an annual crop.
- 26323 JENSEN, M. Windbreaks. (In Danish.) Hedeselsk. Tidsskr. 69: 229-231. 1948. 11 H35
- 26324 JONES, R. D. Federal assistance to small timberland owners. Forest Leaves 38(5): 3-5. Nov./Dec. 1948. 99.8 F763
- 26325 KEITHLEY, E. S. Christmas tree farming. Green Thumb 6: 18-20. Jan. 1949. 80 G82
- 26326 POWELL, A. L. Penn's woods. Pa. Farmer 140: 71. Jan. 22, 1949. 6 P383  
Farm woodlots in Pennsylvania.
- 26327 RUDOLPH, W. Small woodlot owners' co-op pioneered in Pennsylvania. South. Lumberman 178(2227): 36-37. Jan. 15, 1949. 99.81 So82
- 26328 RUDOLPH, W. Woodland co-op. Amer. Forests 54: 504-505. Nov. 1948. 99.8 F762
- 26329 SCHMAUTZ, J. E. Preliminary report of a study of Montana shelterbelts. Mont. Acad. Sci. Proc. 1947-48(7-8): 11-15. 1948. 500 M762
- 26330 STODDARD, C. H. Forest farming and rural employment; a study of two areas in northern Wisconsin and southwestern Arkansas. Washington, Charles Lathrop Pack Forestry Found., 1949. 29 p. 99.55 St6F
- 26331 STODDARD, C. H. Sideline forestry. Amer. Forests 55(2): 30, 44. Feb. 1949. 99.8 F762
- Mensuration
- 26332 HOLZTABELLEN, rauminhalte, umrechnungs-tabellen, preisberechnungstafeln, umwandlung von massen u. a. Herrenalb, Bruder, 1948. 48 p. (Bau-Fach-schriften. 2) 99.4 H742
- 26333 HORNIBROOK, E. M. Cubic-foot volume table for lodgepole pine. U. S. Forest Serv. Rocky Mountain Forest and Range Expt. Sta. Res. Note 4, 3 p. Dec. 20, 1948. 1.9622 R2R313
- 26334 LEVAKOVIĆ, A. Structure des peuplements—sa description analytique. (In Croatian.) Glasnik za Sumske Pokuse 9: 293-366. Ref. 1948. 99.9 Z1  
French summary.
- 26335 MERRILL, F. B. Estimating timber on small areas. Forest Farmer 8(5): 17, 20. Feb. 1949. 99.8 F7692
- 26336 MILLER, C. I. A methods study of the cumulative volume tally sheet. J. Forestry 47: 25-28. Jan. 1949. 99.8 F768
- 26337 SAHAI, R. Partial enumeration in the Dehra Dun forest division. Indian Forester 73: 437-444. Oct. 1947. 99.8 In2
- 26338 SPURR, S. H. Aerial photographic techniques in forestry. Photogram. Engin. 14: 535-537. Dec. 1948. 325.28 P56  
Discussion by E. J. Rogers, p. 537-538.
- 26339 TIWARI, S. D. N. A new calliper for measuring diameters of standing bamboo culms. Indian Forester 73: 488-489. Nov. 1947. 99.8 In2
- 26340 VEIGA, A. DE A. Rational exploration of forests. (In Portuguese.) Chacaras e Quintais 78: 341-342. Sept. 15, 1948. 9.2 C34  
For mensuration.
- 26341 WIGGINS, W. D. C. Modern map making. Empire Forestry Rev. 27: 266-268. Dec. 1948. 99.8 Em72
- 26342 WOBST, A. Entwurf zu einer einheits-bonitierungstafel für die fichte. Z. f. Weltforstw. 12: 128-137. Oct. 1948. 99.8 L35  
English and French summaries.



## FOREST PROTECTION AND DAMAGE

## SILVICULTURE

References on forest insects are classified with Entomology; references on diseases of trees with Plant Pathology

- 26343 BIER, J. E., SALISBURY, P. J., and WALDIE, R. A. Studies in forest pathology. V. Decay in fir, *Abies lasiocarpa* and *A. amabilis*, in the Upper Fraser Region of British Columbia. Canada. Dept. Agr. Tech. B. 66, 28 p. Ref. June 1948. 7 C16T
- 26344 HILBORN, M. T., and STEINMETZ, F. H. Relation of time of cutting to rate of decay of beech, birch, and spruce under natural storage conditions. (Abs.) Phytopathology 39: 9. Jan. 1949. 464.8 P56
- 26345 KHAN, A. A. The importance of the method of approach to problems in forest hygiene with particular reference to the experience in the Punjab. Indian Forester 74: 102-104. Mar. 1948. 99.8 In2
- 26346 KOLLMANN, F. Holzschutz—erkenntnisse und forderungen. Holz-Zentbl. 74: 525, 527. Nov. 16, 1948. 99.81 H742
- 26347 SUOLAHTI, O. Dependence of the resistance to decay on the quality of Scots pine. (In Swedish.) Suomen Paperi- ja Puutavaraletti 30: 421-425. Dec. 15, 1948. 302.8 P1991
- English summary.

## Fire

- 26348 ARMITAGE, J. A. Fire lookout. New Mex. 27(1): 14-15, 45-46. Jan. 1949. 288.8 N46
- Forest fire control.
- 26349 CHAPMAN, H. H. Local autonomy versus forest fire damage in New England. J. Forestry 47: 101-106. Feb. 1949. 99.8 F768
- 26350 COOK, L. F. The 1948 forest fire record. Natl. Parks Mag. 23(96): 31. Jan./Mar. 1949. 98.69 N21
- 26351 CRAIG, J. B. Maine—one year later. Amer. Forests 54: 492-495, 514, 516. Nov. 1948. 99.8 F762
- Forest fire prevention.
- 26352 EVERTS, A. B. Fire fog apparatus; Region 6, Snoqualmie National Forest. U. S. Forest Serv. E. D. Rpt. 16, 11 p. Dec. 1948. 1.962 A2Eq5
- 26353 FOBES, C. B. Historic forest fires in Maine. Econ. Geog. 24: 269-273. Oct. 1948. 278.8 Ec7
- 26354 GARIN, G. I., and STEVENS, T. D. Fire prevention pays. Forest Farmer 8(5): 12. Feb. 1949. 99.8 F7692
- 26355 JIMENEZ DE E., J. Defensa de montes contra incendios. Campo [La Paz] 2(16): 13-14. Aug. 1948. 9.1 C15
- 26356 KOROLEFF, A. Action needed to reduce our losses from forest fire. Pulp & Paper Mag. Canada 49 (13): 119-120, 122, 124. Dec. 1948. 302.8 P96
- 26357 MEYER, A. B. Our smoking hills. Mo. Wildlife 11(1): 4-5. Winter 1949. 279.8 M692
- Forest fire control.
- 26358 MILLER, J. N. Water bombs for fighting forest fires. Agr.-Com.-Indus. Life 10(11): 4-5. Nov. 1948. 25 Ag8
- 26359 ROTTIN, B. Une intéressante discussion sur les incendies de forêts. Bois et Scieries 54: 991-993. Dec. 16, 1948. 99.81 B632
- 26360 SIGGERS, P. V. Fire and the southern fusiform rust [of pine]. Forest Farmer 8(5): 16, 21. Feb. 1949. 99.8 F7692
- 26361 TERWAGNE, C. Le grand incendie de Hattlich-Eupen, Septembre 1947. Soc. Cent. Forest. de Belg. B. 55: 369-386. Oct. 1948. 99.9 B83
- 26362 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. MOTION PICTURE SERV. A special film release of the cooperative forest fire prevention campaign—Then it happened. Washington? 1948. 6 p. 1.914 M2Sp3
- Maine forest fire.
- 26363 U. S. FOREST SERV. Classification of cooperative forest fire control expenditures under the Clarke-McNary Law, Section 2. Washington, 1948? 2 p. 1.962 C4C56
- 26364 U. S. FOREST SERV. You and forest fires. U. S. D. A. PA-64, 16 p. 1948. 1 Ag84Pro
- 26366 ADET PALACIOS, F. Multiplicación por estaca de árboles forestales. Campo y Suelo Argentino 32(386): 28. Dec. 1948. 9 C15
- 26367 ANDREWS, L. R. Some problems under sustained yield management plan in British Columbia. Brit. Columbia Lumberman 33: 51-52, 74. Jan. 1949. 99.81 B77
- 26368 ANIC, M. About growing of cottonwood plants by cuttings. (In Croatian.) Glasnik za Sumske Pokuse 9: 121-156. Ref. 1948. 99.9 Z1
- English summary.
- 26369 ANIC, M. About sprouting ability of shortened ash plants. (In Croatian.) Glasnik za Sumske Pokuse 9: 19-41. Ref. 1948. 99.9 Z1
- English summary.
- 26370 BAYLY, G. H. Tree planting machines. Empire Forestry Rev. 27: 257-259. Dec. 1948. 99.8 Em72
- 26371 BERTSCH, K. Der wald als lebensgemeinschaft. Ravensburg, Maier, 1947. 179 p. 99.36 B46
- 26372 BOE, K. N. Is Douglas-fir replating ponderosa pine in the cut-over stands in western Montana? Mont. Acad. Sci. Proc. 1947-48(7-8): 42-50. 1948. 500 M762
- 26373 BOER, S. DE. Making cuttings from maple. (In Dutch.) Nederland. Dendrol. Ver. Jaarb. 16: 116-118. 1947. 99.9 N28
- 26374 CANADA. DEPT. OF AGRICULTURE. DOMINION FOREST NURSERY STATIONS. Tree planting in the Prairie Provinces of Manitoba, Saskatchewan, Alberta. Ottawa, 1948. 40 p. 101 Ex6R
- 26375 CHATURVEDI, M. D. Thorny shrubs—a blessing in disguise. Indian Forester 74: 88-89. Mar. 1948. 99.8 In2
- An aid in reforestation.
- 26376 COOMBS, W. F. Certain aspects of chir (*Pinus longifolia*) regeneration. Indian Forester 73: 461-462. Oct. 1947. 99.8 In2
- 26377 COSSITT, F. M. In the field of farm chemicals; keeping weeds out of pines. Com. Fert. 78(2): 24-25. Feb. 1949. 57.8 C73
- 26378 COX, H. A. Method of treatment of the forest. Wood [London] 14: 17-18. Jan. 1949. 99.82 W855
- 26379 DAVIS, D. Influence of fire on chir (*Pinus longifolia*) regeneration. Indian Forester 73: 336-337. July 1947. 99.8 In2
- 26380 DELEVOY, G. Essais sur des modes de boisement en essences feuillues aux champs d'expérience de Belle Étoile (Forêt de Soignes). Soc. Cent. Forest. de Belg. B. 55: 387-408. Oct. 1948. 99.9 B83
- 26381 DROST, P. J. Is the willow culture going to disappear from our land? (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 59: 464-468. Dec. 1948. 12 N282
- 26382 DUFFIELD, J. W., and LIDDICOET, A. R. Variability of rooting in a small second-generation population of the hybrid *Pinus attenuata*. J. Forestry 47: 107-109. Feb. 1949. 99.8 F768
- 26383 DYRING, T. Clear cutting. (In Norwegian.) Skogbrukeren 23: 277-278. Dec. 15, 1948. 99.8 Sk54
- 26384 FOURY, P. Principes de sylviculture tropicale. Bois et Forêts des Trop. 7: 227-250. (To be cont.) Third Quart. 1948. 99.8 B632
- 26385 GOBLET D'ALVIELLA, F. A. J. COMTE. Cahiers forestiers. Paris, Lechevalier, 1947. v. 1, 507 p. 99.45 G53C
- 26386 GONGGRYP, J. W. Quelques remarques sur l'emploi d'essences exotiques et indigènes dans la sylviculture tropicale. Bois et Forêts des Trop. 7: 251-257. Third Quart. 1948. 99.8 B632
- 26387 GRUNOW, W. W. Die grünastung der Douglasie. Forstw., Holzw. 2: 300-301. Oct. 1, 1948. 99.8 F7793
- 26388 HALL, M. A. Slash pine grows faster in the South. South. Lumberman 178(2227): 54, 56-57. Jan. 15, 1949. 99.81 So82
- 26389 HOLM, J. Beech culture problems. (In Danish.) Dansk Skovfor. Tidsskr. 33: 572-574. Dec. 1948. 99.8 D23
- 26390 HUBINGER, H. Der mischwald im hochgebirge. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 175-176. Nov. 1948. 99.8 AL53
- 26391 JAGER GERLINGS, J. H. Boschbouw [Forestry]. Ed. 2. Gorinchem, 1948. 157 p. (Noorduijn's Wetenschappelijk Ser. 14) 99 J18

## Meteorological Injuries

- 26365 WAGENER, W. W. Top dying of conifers from sudden cold. J. Forestry 47: 49-53. Ref. Jan. 1949. 99.8 F768



- 26392 JENSEN, C. F. Langdal plantation; a magnificent experiment with foreign tree species. (In Danish.) Hedeselsk. Tidsskr. 69: 237-243. (Concl.) 1948. 11 H35
- 26393 KELLEY, C. L. Two trees for one. Gard. Gossip 24: 14. Jan. 1949. 80 G1625
- Reforestation.
- 26394 KHAN, K. B. M. The afforestation of dry and desert areas in the Nizam's dominions. Indian Forester 73: 447-448. Oct. 1947. 99.8 In2
- 26395 KÖNIG, E. Wertminderung des holzes durch zwiesel. I. Holz-Zentbl. 73: 247, 249. July 31, 1947. 99.81 H742
- 26396 KRENN, K. Durchforstkriterien der wichtigsten holzarten. Bad. Forstl. Versuchsanst. Schriftenreihe 5, 24 p. 1947. 99.9 B142S
- 26397 KREUZEN, E. M. Opheusden and the war with its results. (In Dutch.) Nederland. Dendrol. Ver. Jaarb 16: 124-126. 1947. 99.9 N28
- Includes account of the condition of the tree nurseries.
- 26398 LATHROP, H. F. Good forestry in relation to southern lumber production. Forest Farmer 8(4): 4, 9. Jan. 1949. 99.8 F7692
- 26399 LINDQUIST, B. Genetics in Swedish forestry practice. Stockholm, Svenska Skogsvårdsföreningens Förlag, 1948. 173 p. Ref. 99.34 L64Ae
- 26400 MATHEA, T. Minderwertige böden—und doch ertragssteigerung. Neue Mitt. f. die Landw. 3: 57. Feb. 21, 1948. 18 N39
- Willow culture for poor land.
- 26401 MOBBS, E. C. Longevity of chir (Pinus longifolia). Indian Forester 73: 462. Oct. 1947. 99.8 In2
- 26402 MORVILLE, K. Growth and shape of pines. (In Danish.) Dansk Skovfor. Tidsskr. 33: 545-560. Dec. 1948. 99.8 D23
- 26403 OUCHTERLONY, K. Scrub spruce in pine stands. (In Swedish.) Skogsägaren 24: 249-250. Dec. 1948. 99.8 Sk55
- 26404 PAVARI, A. Bases ecológicas de la silvicultura europea. Madrid, 1947. 23 p. 463.83 P28
- 26405 PETRACIĆ, A. Circonstances biologiques des peuplements mélangés d'aune et de chêne pédonculé. (In Croatian.) Glasnik za Šumske Pokuse 9: 1-17. Ref. 1948. 99.9 Z1
- French summary.
- 26406 PRASAD, J. Silviculture of ten species of bamboo suitable for paper manufacture. Indian Forester 73: 122-130. Ref. Mar. 1948. 99.8 In2
- 26407 THE PRETREATMENT of forest seed to hasten germination. Forestry Abs. 10: 153-158. (To be cont.) Ref. Dec. 1948. 241.01 Im7
- 26408 PRUITT, A. A. A study of the effects of soils, water table, and drainage on the height growth of slash and loblolly pine plantations on the Hofmann Forest. Raleigh? 1947. 92 p. 99.34 P95
- Thesis (M.S.)—North Carolina State College of Agriculture and Engineering.
- 26409 ROE, A. L. Growth of a selectively-cut stand of ponderosa pine in western Montana. Mont. Acad. Sci. Proc. 1947-48(7-8): 15-16. 1948. 500 M762
- 26410 RUCAREANU, N. On Parade's artifice and the transitory rotation. (In Romanian.) Rev. Padurilor 63: 133-137. July/Aug. 1948. 99.8 R327
- French summary.
- Silviculture.
- 26411 RÜDOLF, P. O. Machines for forest planting. Montreal, 1947. 5 p.-folder (Canadian Pulp and Paper Assoc. Woodlands Sect. Woodlands Sect. index 943 (F-2)) 99.47 R83
- 26412 SAATGUTSTELLE LANDESFORSTAMT DRESDEN. Merkblatt für pflanzverbände bei nadelholzarten. Forstw., Holzw. 2: 269-271. Sept. 1, 1948. 99.8 F7793
- 26413 SAGRELYA, K. P. Single stem silviculture. 2. Thinning in teak plantations. Indian Forester 73: 323-329. July 1947. 99.8 In2
- 26414 SAID, M. Water-logged area in Attock District. Indian Forester 74: 94-95. Mar. 1948. 99.8 In2
- Reforestation.
- 26415 SCHINNES, C. Clear cutting. (In Norwegian.) Skogbrukeren 23: 264-265. Dec. 1, 1948. 99.8 Sk54
- 26416 SCHOFIELD, W. R. Utilization of secondary species. Brit. Columbia Lumberman 33: 56-57, 66. Jan. 1949. 99.81 B77
- 26417 SIEVERT, C. H. A. Experiences of a tree planting citizen. Lake States Timber Digest 3(8): 6. Jan. 27, 1949. 99.81 L14
- 26418 SINGH, P. The conception and classification of thinnings. Indian Forester 73: 315-322. July 1947. 99.8 In2
- 26419 SOLBRAA, T. Planting or natural rejuvenation. (In Norwegian.) Skogbrukeren 23: 261-262. Dec. 1, 1948. 99.8 Sk54
- 26420 STEWART, D. N. Response of Colorado blue spruce and Englemann spruce cuttings to hormone solutions. (Abs.) Mont. Acad. Sci. Proc. 1947-48(7-8): 39. 1948. 500 M762
- 26421 STOECKLER, J. H. Timber stand improvement is a job confronting many Wisconsin land owners. Lake States Timber Digest 3(8): 10. Jan. 27, 1949. 99.81 L14
- 26422 TROMP, P. H. M. Een zaaimachine voor de bosbouw. Nederland. Heidemaatsch. Tijdschr. 59: 455-456. Dec. 1948. 12 N282
- 26423 ZEHNGRAFF, P., and BARGEN, J. VCN. Chemical brush control in forest management. J. Forestry 47: 110-112. Feb. 1949. 99.8 F768
- 26424 ZENTGRAF, E. Aufforstungsfragen. Schweiz. Z. f. Forstw. 99: 602-606. Nov. 1948. 99.8 J82

## LUMBERING

## Equipment

- 26425 BITTERLICH, W. Die kleinschleppraupe. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 177-179. Nov. 1948. 99.8 AL53
- 26426 BREDELEV, N. To improve the utilization of machinery in logging in Archangel Region. (In Russian.) Lesn. Promysh. 8(7): 17-18. July 1948. 99.82 L56
- 26427 BROOKS, R. D. Circular saws—design, manufacture and operation. Wood Working Digest 50(12): 59-62, 64, 66, 68, 70, 72, 74. Dec. 1948. 99.82 W87
- 26428 DOSTAL, V. G. Utilization of Karelian type motorized crane in the hauling and loading of logs. (In Russian.) Lesn. Promysh. 8(6): 3-5. June 1948. 99.82 L56
- 26429 FOBES, E. W. Wyssen cable logging system. South. Lumberman 178(2227): 86. Jan. 15, 1949. 99.81 So82
- 26430 HENGST, O. X. Die motorkettensäge im hauungsbetrieb. Karlsruhe, Badenia, 1947. 100 p. 99.76 H38
- 26431 HYLER, J. E. How a scraping cut with a rip-saw blade saves time in patternmaking; how to rip glued-up plates of large area. Natl. Hardwood Mag. 23: 34-36, 40. Feb. 1949. 99.81 N212
- 26432 HYLER, J. E. Ripsaws and their work. 12. Natl. Hardwood Mag. 22(12): 29-33, 47. Jan. 1949. 99.81 N212
- 26433 JASINSKI, V. Log rollers—innovators. (In Russian.) Lesn. Promysh. 8(7): 20-21. July 1948. 99.82 L56
- Efficient methods and equipment in logging in U. S. S. R.
- 26434 KHEIFETS, I. S., and KARAVAEV, V. I. Log loader operated by automobile. (In Russian.) Lesn. Promysh. 8(7): 15-16. July 1948. 99.82 L56
- 26435 KLOK, J. H. New Klok jig cuts bandsawing time in half. Cosgrove's Mag. 21(2): 26-27. Feb. 1949. Madison Br. Libr.
- 26436 LAIKO, M. V. Concerning some defects in the mechanization of logging in the Ukraine. (In Russian.) Lesn. Promysh. 8(7): 6-9. July 1948. 99.82 L56
- 26437 LAPIN, P. I. Planing saws. (In Russian.) Lesn. Promysh. 8(6): 15-18. June 1948. 99.82 L56
- 26438 LEAF, C. S. Small hydraulic log barker. Timber Canada 9(5): 34-36. Jan. 1949. 99.81 T487
- 26439 MARCH, E. O. How to get more service from saws. Cosgrove's Mag. 21(2): 28, 40. Feb. 1949. Madison Br. Libr.
- 26440 MUZIUKIN, V. S. Increasing the responsibility of managers in the use of the new technique [in logging]. (In Russian.) Lesn. Promysh. 8(7): 23-24. July 1948. 99.82 L56
- 26441 OKRETIC, B. La machine américaine dans la fabrication des panneaux contreplaqués. Bois et Forêts des Trop. 7: 296-304. Third Quart. 1948. 99.8 B632
- 26442 PANTSER, A. Three drum TL-3 hauling winch. (In Russian.) Lesn. Promysh. 8(7): 9-14. July 1948. 99.82 L56
- 26443 PATSIORA, P. P., and GINZBURG, Z. B. Production of high-frequency current for electric saws. (In Russian.) Lesn. Promysh. 8(6): 8-10. June 1948. 99.82 L56



Logging

- 26444 BROWN, N. C. Logging; the principles and methods of harvesting timber in the United States and Canada. New York, Wiley, 1949. 418 p. 99.76 B81Log
- 26445 GESELLSCHAFT FÜR FORSTLICHE ARBEITS-WISSENSCHAFT. Forstgerechtes baumfällern. Hannover, Schaper, 1947. 80 p. 99.76 G33
- 26446 KOROLEFF, A., and SILVERSIDES, C. R. Transport of wood by gravity over suspended wire. J. Forestry 47: 84-93. Feb. 1949. 99.8 F768
- 26447 LANDMANN, H. Holzschutz auf dem hiebsort; der ruf nach einem neuartigen holzschutzmittel. Holz-Zentbl. 74: 561. Nov. 26, 1948. 99.81 H742
- 26448 MCNUTT, H. "War wagon" O.K.; half tracks keep the logs rolling. South. Lumber J. 53: 32, 94. Jan. 10, 1949. 99.81 So8
- 26449 MALYSHEV, S. Floating of plywood logs without losses. (In Russian.) Lesn. Promysh. 8(6): 14. June 1948. 99.82 L56
- 26450 MICHAELSSON, G. The logging camp Campo Gallo. (In Swedish.) Skogsägaren 24: 253-255. Dec. 1948. 99.8 Sk55
- 26451 SCHANTZ-HANSEN, T. Logging methods and peeling of aspen. Lake States Timber Digest 3(7): 3-4; (8): 13-14. Jan. 13-27, 1949. 99.81 L14
- 26452 SEGUIN, G. A. Our lumber camps; a reporting on the life of the woodman. Quebec. Min. Health. B. Sanit. 49(1): 2-12, 2-14. Jan./Mar. 1949. 449.75 Q35B English and French texts.
- 26453 SIMMONS, F. C. Cable logging. Timber Canada 9(4): 41-43. Dec. 1948. 99.81 T487
- 26454 SIMMONS, F. C. Winter hauling. Timber Canada 9(6): 42-46. Feb. 1949. 99.81 T487
- 26455 ZIRNITZER, H. Holzbringung im gebirge. Salzburg. Bauer 3(52/53): 4-5. Dec. 23, 1948. 19 Sa3

Lumber Industry

- 26456 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. The development of specifications for the grading of river red gum (Eucalyptus rostrata, Schlecht). T & G flooring. 1st report, by A. E. Head. South Melbourne, 1948. 12 p. (Sub-proj. U.7-2, P.R.27, Expt.U.7-2-Z-27) 99.76 Au72D
- 26457 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Grading of scantling. Second report. By R. F. Turnbull, A. E. Head, and R. G. Skewes. South Melbourne, 1948. 7 p. (Its Sub-proj. U.7-2, Prog. Rpt. 29) 99.9 Au722G
- 26458 BARTH, J. La situation du marché des bois en Suisse. Bois et Scieries 54: 997. Dec. 16, 1948. 99.81 B632
- 26459 BLOCH, F. A. Produktionsüberschüsse in USA und Osteuropa. Holz-Zentbl. 74: 551. Nov. 23, 1948. 99.81 H742
- 26460 CHAMBERLAND, H. J. Modern techniques for resawing and contour sawing hardwoods. Natl. Hardwood Mag. 22(12): 25-28. Jan. 1949. 99.81 N212
- 26461 CHAMPION, F. J. Diversification in the purchasing of container lumber. n. p., 1948. 3 p. 99.79 C35
- 26462 FREEMAN, R. More discussion on U. K. buying. Timber Canada 9(4): 44-47. Dec. 1948. 99.81 T487
- 26463 FREEMAN, R. Report from Britain; timber decontrol still unlikely. Timber Canada 9(5): 41-43, 78. Jan. 1949. 99.81 T487
- 26464 GOETZ, R. Rationelle gewinnung von stockholz in einfachster weise. Holz-Zentbl. 74: 541. Nov. 19, 1948. 99.81 H742
- 26465 GRAHAM, P. H. How offal, over-runs, and overstock can be re-machined for greater profit. Natl. Hardwood Mag. 23: 50-52, 66. Feb. 1949. 99.81 N212
- 26466 HECKL, R. Die bauholzverwendung im landwirtschaftsbau. Landtechnik 1: 373-375, 376. Dec. 1948. 58.8 L236
- 26467 HÖBEL, R. Währungsumstellung und kaufpreisverbindlichkeiten. Holz-Zentbl. 74: 437-438. Oct. 15, 1948. 99.81 H742
- 26468 HOLLIDAY, H. R. The eucalyptus industry; rapid development at Tumut. Country Life [Sydney] 60 (26): 7. Dec. 24, 1948. 286.85 Sy2
- 26469 HOYLE, R. J. Changes in the wood-using industries of New York State since 1912. South. Lumberman 178(2227): 39-42. Jan. 15, 1949. 99.81 So82

- 26470 JOHNSON, B. N. What effect will New Deal ideas of Truman have on the industry? Cross Tie B. 29 (12): 11-12. Dec. 1948. 99.82 C87
- 26471 KOLLMANN, F. Holzwerkstoffe und holzschutz. Holz-Zentbl. 74: 487, 489, 491, 493. Nov. 2, 1948. 99.81 H742
- 26472 KÖSTER, K. Eine einkaufsreise durch Hessen. Holz-Zentbl. 74: 439-440. Oct. 15, 1948. 99.81 H742
- 26473 LEMBKE, C. Timber supply position. (Extract.) Austral. Timber J. 14: 520, 557. Sept. 1948. 99.81 Au7
- 26474 LEONARD, R. O. Record production of western pine in 1948 is matched by record shipments. Miss. Val. Lumberman 73: 80-81, 98. Jan. 7, 1949. 99.81 M69
- 26475 LIGHTSEY, O. Quality control. South. Lumber J. 53: 24, 95-96. Jan. 10, 1949. 99.81 So8
- 26476 LINN, E. R. A forest industries survey of Oklahoma. Okla. Agr. Expt. Sta. B. 325, 35 p. Dec. 1948. 100 Ok4
- 26477 MALTZAHN, E. FREIHERR VON. Die überweisung als erfüllungshandlung; zum thema überweisung-holzkaufrückstände-währungsreform. Holz-Zentbl. 74: 607. Dec. 10, 1948. 99.81 H742
- 26478 OSTWALD, H. Zur frage der holzbedarfsdeckung. Holz-Zentbl. 73: 248. July 31, 1947. 99.81 H742 Germany.
- 26479 O'TOOLE, D. G. Timber utilisation and marketing. Austral. Timber J. 14: 533, 535, 537, 593, 595, 597, 599, 601, 603. Sept.-Oct. 1948. 99.81 Au7
- 26480 POVELESCU, I. M. Referring to the best sorting. (In Romanian.) Rev. Padurilor 63: 151-153. July/Aug. 1948. 99.8 R327 French summary.
- 26481 RAU. Zur frage der holzbedarfsdeckung. III. Holz-Zentbl. 73: 227. July 10, 1947. 99.81 H742 German.
- 26482 RAZOUS, P. Le commerce des bois en France et dans les pays de l'union française, Afrique Équatoriale. Bois et Scieries 54: 888-890. Nov. 18, 1948. 99.81 B632
- 26483 RAZOUS, P. Le commerce des bois en France et dans les pays de l'Union Française; commerce du bois de Madagascar. Bois et Scieries 54: 1044-1045. Dec. 30, 1948. 99.81 B632
- 26484 RAZOUS, P. Le commerce des bois en France et dans les pays de l'Union Française; perspectives pour le marché des bois de l'Afrique équatoriale et occidentale française. Bois et Scieries 54: 950-953. (Cont.) Dec. 2, 1948. 99.81 B632
- 26485 REECE, P. O. From a British viewpoint: timber in industry. Brit. Columbia Lumberman 33: 48-49. Jan. 1949. 99.81 B77
- 26486 ROTTIN, B. Pour la défense de la corporation du bois et le retour aux temps du bon sens. Bois et Scieries 54: 1039-1041. Dec. 30, 1948. 99.81 B632
- 26487 SERLACHIUS, R. Timber market. Suomen Paperi ja Puutavaralehti 30: 416-417. Nov. 30, 1948. 302.8 P1991
- 26488 SIMMONS, F. C. Loading. Timber Canada 9(5): 37-40, 74-76. Jan. 1949. 99.81 T487
- 26489 WEST COAST LUMBERMEN'S ASSOCIATION. Four of the world's finest woods; Douglas fir, west coast hemlock, western red cedar, Sitka spruce, come to you from the forests of America's west coast. Portland, 1948. 8 p. 99.79 W526F
- 26490 WEST COAST LUMBERMEN'S ASSOCIATION. Standard grading and dressing rules for Douglas fir, Sitka spruce, West Coast hemlock, western red cedar lumber. Portland, Oreg., 1947. 81 p. 99.76 W522
- 26491 WEST COAST LUMBERMEN'S ASSOCIATION. BUR. OF LUMBER GRADES AND INSPECTION. Look for the hall mark of integrity. Portland, Oreg., 1948. 8 p. 99.76 W523

Sawmills

- 26492 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. An investigation to estimate the amount of sawdust produced by the sawmilling industry in Australia. Progress report No. 1, by S. T. Helder, J. K. Leggett, and R. F. Turnbull. South Melbourne, 1948. 8 p. (Proj. U.16, Sub-proj. U.16-1) 301.9 Au7
- 26493 CAHN, R. Le problème des manutentions dans les scieries et les industries du bois. Bois et Scieries 54: 1019-1020. Dec. 23, 1948. 99.81 B632



- 26494 HANITZSCH, E. Der sägenüberhang. Holz-Zentbl. 74: 581-582. Dec. 3, 1948. 99.81 H742
- 26495 HETTERICH, G. Leistungsvergleich im Sägewerksbetrieb. Holz-Zentbl. 74: 311-313, 409-410. Aug. 24, Oct. 5, 1948. 99.81 H742
- 26496 KIBBEY, M. B. An American visits a Norwegian sawmill. Timberman 50(4): 44-46, 84. Feb. 1949. 99.81 T484
- 26497 MCNULTY, G. Sawmills on wheels. Oreg. Farmer 72: 31, 52. Jan. 20, 1949. 6 Or32
- 26498 MAHEU, C. La manutention dans les scieries allemandes. Rev. du Bois 3(11): 13-15. Nov. 1948. 99.82 R32
- 26499 MILLER, W. A. The Forestry Department sawmill, Kumasi. Empire Forestry Rev. 27: 232-244. Dec. 1948. 99.8 Em72
- 26500 MOLPUS, R. H. Control of mill operating costs should begin at the stump. South. Lumber J. 53: 98, 100. Jan. 10, 1949. 99.81 So8
- 26501 RUDOLPH, W. Woodlot co-op clicks. Nature Mag. 42: 90-91. Feb. 1949. 409.6 N214
- Cooperative sawmill.

#### WOOD TECHNOLOGY

- 26502 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. The properties of sawdust and other organic materials. Working plan, by R. F. Turnbull and C. H. Hebblethwaite. South Melbourne, Forest Prod. Lab., 1948. 9 p. (Proj. U.15-1) 301 Au7
- 26503 BERLINER, J. F. T. Transmutación química de la madera. Bolsa de Com., Rosario. Rev. 36(880): 9-12, 14-20. Sept. 15, 1948. 287 R71
- 26504 CENTOLA, G., and PANCIROLLI, F. Reacting power of cellulose and uniformity of wood composition. (In Italian.) Indus. della Carta 2: 117-120. Nov. 1948. 302.8 In22
- 26505 GRAHAM, H. M., and KURTH, E. F. Constituents of extractives from Douglas fir. Indus. & Engin. Chem. 41: 409-414. Feb. 1949. 381 J825
- 26506 HAM, V. S., JR., and PALMER, G. D. Lignin resins. J. Chem. Ed. 26(2): 87-90. Ref. Feb. 1949. 381 J826
- 26507 KEYLWERTH, R. Neue amerikanische Holzveredelungsverfahren. Holz-Zentbl. 74: 507-509. Nov. 9, 1948. 99.81 H742
- 26508 LADON, A. A. Bend it, and make money. Wood Working Digest 50(12): 103-104, 106, 108. Dec. 1948. 99.82 W87
- 26509 SCHOFIELD, M. Wood in the chemist's hands. Paper Maker & Brit. Paper Trade J. 116: 340-342, 344-345. Dec. 1948. 302.8 P122
- 26510 WACEK, A., and EISNER, G. Über die Aufnahme gebundenen Phenols durch Fichtenholz. Monatsh. f. Chem. 79: 564-569. 1948. 384 M74

#### Preservative Treatment

- 26511 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Service tests of treated and untreated sleepers of less durable Victorian eucalypt timbers on the main north-eastern line. Progress report No. 3, by N. Tamblin and R. W. Bond. South Melbourne, 1948. 18 p. (Sub-proj. P.3-5, Expt. P.3-5-X-1) 99.9 Au722S
- 26512 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Tests of pole treatments in Victoria using E. obliqua poles. Ninth inspection. South Melbourne, 1948. 13 p. (Its Sub-proj. P.6-5. Prog. Rpt. 16) 300.9 Au7T
- 26513 BLAND, D. E. Some facts about coal tar, creosote, tar "acids" and tar bases in relation to wood preservation. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 167: 1-2. Sept. 1948. 99.9 Au722F
- 26514 BOND, R. W. Wood preservatives. 5. The naphthenates. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 166: 3. Aug. 1948. 99.9 Au722F
- 26515 BOND, R. W. Wood preservatives. 6. Chlorinated phenols. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 167: 2. Sept. 1948. 99.9 Au722F
- 26516 COKLEY, K. Small scale commercial treatment of sawn timbers susceptible to attack by powder post borer [Lyctus brunneus]. Austral. Timber J. 14: 511, 560. Sept. 1948. 99.81 Au7

- 26517 DUNCAN, H. R. Prolonging the life of cross ties. Cross Tie B. 30: 44-47. Jan. 1949. 99.82 C87
- 26518 MORRIS, R. M., JR. Something new: a pre-fabricated treating plant. South. Lumber J. 53: 19, 100. Jan. 10, 1949. 99.81 So8
- 26519 SNYDER, T. E., and ZETEK, J. Effectiveness of wood preservatives in preventing attack by termites. II. So. African Timber Trades' J. 2(11): 13-15. Aug. 1948. 99.8 So82
- 26520 WEST COAST LUMBERMEN'S ASSOCIATION. Cause and prevention of decay in wood construction. Portland, Oreg., 1947. 7 p. 99.76 W622C

#### Properties and Structure

- 26521 ALEXANDER, J. B. Basic stresses for wood. Brit. Columbia Lumberman 32(12): 48-50, 99-100, 102, 104. Dec. 1948. 99.81 B77
- 26522 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. The anatomy of the timbers of the southwest Pacific area. Part 1, by H. E. Dadswell and H. D. Ingle. South Melbourne, 1948. 40 p. (Its Proj. W.S. 11. Sum. Rpt. 1. Sub-proj. W. S. 1-17, P.R.1) 99.31 Au7A
- 26523 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. On the significance of tyloses in truewood formation. Progress report No. 1, by M. M. Chattaway. South Melbourne, 1948. 7 p. (Proj. W.S.16-1, Prog. Rpt. 1) 99.31 Au70
- 26524 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. A study of the torsion test. Progress report No. 1, by J. J. Mack. South Melbourne, 1948. 8 p. (Sub-Proj. T.M.22/4)
- 26525 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. A study of the variation of properties in short boards and its implication in experimental design, by E. J. Williams and N. H. Kloot. South Melbourne, 1948. 31 p. (Its Proj. T.M.18-0 and S.M.1-1, Timber Mech. Prog. Rpt. 27, Math. Statis. Prog. Rpt. 4) 99.79 Au7Sv
- Chiefly Flindersia.
- 26526 DESCH, H. E. Moisture in wood. Wood [London] 13: 347-348. Dec. 1948. 99.82 W855
- 26527 DEVINE, J. How to eliminate buckling in panels. Natl. Hardwood-Mag 22(12): 38. Jan. 1949. 99.81 N212
- 26528 ERICKSON, E. C. O., FAULKES, W. F., JR., and WEATHERWAX, R. C. Abrasion-wear; characteristics of modified-wood laminates. I. Plastics [Chicago] 8(12): 8-10, 24. Dec. 1948. 309.8 P696
- 26529 FRISON, E. De la présence d'amidon dans le lumen des fibres du bois. B. Agr. du Congo Belge 39: 869-874. Dec. 1948. 24 K83
- 26530 GULOWSEN, K. T. On the durability of wooden floors. (In Norwegian.) Norsk Skogindus. 2: 299-300. Nov. 1948. 99.82 N81
- 26531 HORVAT, I. Contribution à la connaissance des propriétés techniques du bois de Pinus heldreichii var. leucodermis (Ant.) Markgraf. (In Croatian.) Glasnik za Sumske Pokuse 9: 157-171. 1948. 99.9 Z1
- French summary.
- 26532 HORVAT, I. Recherches sur les propriétés techniques du bois de Pinus nigra Arn. (In Croatian.) Glasnik za Sumske Pokuse 9: 173-229. Ref. 1948. 99.9 Z1
- French summary.
- 26533 LATHAM, B. The softwoods of Europe and North America (Canada)—a comparative analysis. Empire Forestry Rev. 27: 227-231. Dec. 1948. 99.8 Em72
- 26534 WANGAARD, F. F., and ZUMWALT, E. V. Some strength properties of second-growth Douglas fir. J. Forestry 47: 18-24. Jan. 1949. 99.8 F768

#### Seasoning, Conditioning, and Finishing

- 26535 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. The seasoning of 1 in. quartersawn brown stringybark (Eucalyptus capitellata). 1st report, by G. S. Campbell. South Melbourne, 1948. 24 p. (Sub-Proj. S.6-31, Expt. S.6-31-Y-1) 300 Au7S
- 26536 BAKER, G. Kiln drying of turning squares and turned products. Northeast. Wood Util. Council. B. 23: 47-52. Aug. 1948. 99.9 N819



- 26537 BATTENFIELD, D. R. Developments, principles, performance of the Moore dry kiln system. Wood Working Digest 50(12): 77-78, 80, 82. Dec. 1948. 99.82 W87
- 26538 CARTER, R. M. The costs of poor kiln drying. Northeast. Wood Util. Council. B. 23: 5-12. Aug. 1948. 99.9 N819
- Also in Wood-worker 67(12): 56, 58-59. Feb. 1949. Madison Br. Libr.
- 26539 DALY, W. J. Bleaching wood. Seattle, Craftsman Press, 1948. 121 p. 306 D17
- 26540 DICK, M. E. Precision surfacing of wood. Timber Canada 9(5): 33-34. Jan. 1949. 99.81 T487
- 26541 GRAHAM, P. H. Dip finishes—how to apply them. Natl. Hardwood Mag. 23: 42-44, 46-48, 57. Feb. 1949. 99.81 N212
- 26542 GRAHAM, P. H. Tumble finishing equipment and methods. Natl. Hardwood Mag. 22(12): 40, 42, 44, 46-47. Jan. 1949. 99.81 N212
- 26543 HOGSTROM, E. Attractive [simulated bleached] finishes for wood. Indus. Finishing 25(3): 80, 82. Jan. 1949. Madison Br. Libr.
- 26544 HYLER, J. E. Drying green veneer. Veneers & Plywood 43(2): 38, 40. Feb. 1949. 99.82 V55
- 26545 LOUGHBOROUGH, W. K. Chemical seasoning: its effectiveness and present status. Northeast. Wood Util. Council. B. 23: 53-75. Aug. 1948. 99.9 N819
- 26546 NORTHEASTERN WOOD UTILIZATION COUNCIL, INC. Economies in seasoning. Northeast. Wood Util. Council. B. 23, 75 p. Aug. 1948. 99.9 N819
- 26547 RIETZ, R. C. Fundamentals of wood seasoning. Northeast. Wood Util. Council. B. 23: 13-24. Aug. 1948. 99.9 N819
- 26548 SMITH, W. T. The proper finishing of wood for exposure to the elements. Wood Prod. 54: 33-35. Jan. 1949. 99.82 W856
- 26549 TIEMANN, H. D. The kiln-drying of lumber. South. Lumberman 178(2227): 76, 78. Jan. 15, 1949. 99.81 So82
- 26550 TORGESON, C. W. Furnace-type lumber dry kilns. Northeast. Wood Util. Council. B. 23: 31-46. Aug. 1948. 99.9 N819
- 26551 UTERHARCK, F. W. Künstliche trocknung von bauholz. Holz-Zentbl. 74: 587. Dec. 3, 1948. 99.81 H742
- 26552 WAMPLER, R. H. How to get that color [when finishing wood]. Cosgrove's Mag. 21(2): 25, 38-39. Feb. 1949. Madison Br. Libr.
- 26553 WELCH, J. B. Modern kiln design and equipment. Northeast. Wood Util. Council. B. 23: 25-29. Aug. 1948. 99.9 N819

## FOREST PRODUCTS

- 26554 BLACK, B. E. Oregon's farm forest products, 1946. Oreg. State Col. Ext. B. 691, 8 p. July 1948. 275.29 Or32B
- Statistical data.
- 26555 BREITENBUCHER, H. J. Le débit des résineux. Rev. du Bois 3(12): 18-20. (Cont.) Dec. 1948. 99.82 R32
- 26556 BRUNETTI, A. Production of cellulose for rayon from Eucalyptus. (In Italian.) Indus. della Carta 2: 129-131. Dec. 1948. 302.8 In22
- 26557 CLINE, P. Plants to convert sawmill waste into power developed by Arizona lumber firms in 1948. Calif. Lumber Merchant 27(15): 24-25. Feb. 1, 1949. 99.81 C12
- 26558 DAWSON, T. R. Lignin, its place as a reinforcing agent. India Rubber J. 116: 80, 83-84, 89. Jan. 15, 1949. 305.8 In21
- 26559 DICKINSON, T. A. Electrostatic processing of wood turning. Wood Working Digest 51: 73-77. Jan. 1949. 99.82 W87
- 26560 DOSKER, C. E. The utilization of low-grade hardwood lumber. Timber Canada 9(4): 37-40. Dec. 1948. 99.81 T487
- 26561 ENKVIST, T. Lubricating oil from pine tar and tall oil. 3. The effect of catalysts on the decarboxylation of fatty acids from tall oil. Suomen Paperi- ja Puutavara-lehti 1948: 446-452, 459. Ref. 302.8 P1991
- 26562 FENTON, R. H., and CALLWARD, F. M. Home-grown Christmas trees for Connecticut. Conn. Agr. Col. Ext. B. 409, 16 p. Oct. 1948. 275.29 C76B
- 26563 GEVORKIANTZ, S. R. For more and better oak ties; how site quality affects yield shown in Lake States survey. Cross Tie B. 29(12): 18-20, 22. Dec. 1948. 99.82 C87

- 26564 GHELMEZIU, N. The valuation of the wood wastes and the under products from the forests. Exploitation and timber industry. (In Romanian.) Rev. Padurilor 63: 137-148. Ref. July/Aug. 1948. 99.8 R327
- French summary.
- 26565 GRAHAM, P. H. The new expanding dowel is hard wood, made harder. Natl. Hardwood Mag. 23: 29, 37-38, 41. Feb. 1949. 99.81 N212
- 26566 HALL, J. A. Wood in an industrial world. Sci. Monthly 67: 398-405. Dec. 1948. 470 Sci23
- 26567 HARRIS, E. E. Wood-sugar molasses as a means of utilizing wood residues and providing high-energy stock feed. Wood Working Digest 50(12): 97-100. Dec. 1948. 99.82 W87
- Also in Wood Prod. 54: 28, 30. Jan. 1949. 99.82 W856
- 26568 HYLER, J. E. Some practical suggestions designed to help prevent burns on wood. Wood Prod. 54: 17-19. Jan. 1949. 99.82 W856
- 26569 MCELHANNNEY, T. A. Widening uses for wood waste. Empire Forestry Rev. 27: 294-302. Dec. 1948. 99.8 Em72
- 26570 MORBOIS, M. Arbres de Noël et jouets en bois. Rev. du Bois 3(12): 16-17. Dec. 1948. 99.82 R32
- 26571 OLBERG, A. Schaffung einer rundholzpreis-statistik. Holz-Zentbl. 74: 547-548. Nov. 23, 1948. 99.81 H742
- 26572 PERSHALL, E. E. How they handle ties in England. Cross Tie B. 29(12): 16-17. Dec. 1948. 99.82 C87
- 26573 RAFF, R. A. V. Lignins—their nature and applications. Canad. Chem. & Process Indus. 33(1): 35-40. Jan. 1949. 381 C16
- 26574 SIMPSON, H. V. The utilization of low-grade softwood lumber. Timber Canada 9(6): 35-36. Feb. 1949. 99.81 T487
- 26575 SIMPSON, H. V. White speck lumber is suitable for sub-flooring and sheathing. Wood Construct. 34(12): 18. Dec. 1948. 99.81 W852
- 26576 SMITH, R. R. The miracle of sawdust. Natl. Coopers' J. 64: 119-120. Dec. 1948. 99.82 N21
- 26577 SMITH, R. R. Moulding sawdust. Furniture Mfr. 64: 28-29, 43, 58. Jan. 1949. 300.8 F982
- 26578 STROMBECK, H. Wohin mit holzspänen und abfällen? Holz-Zentbl. 74: 581. Dec. 3, 1948. 99.81 H742
- 26579 TAYLOR, J. M. Timber industry develops new uses for waste products. Oregon Business Rev. 8(1): 3-5. Jan. 1949. 280.8 Or34
- 26580 THORN, F. How do we cut our Christmas spruces? (In Swedish.) Skogen 35: 284. Dec. 15, 1948. 99.8 Sk51
- 26581 VILLIÈRE, A. Conduites en bois et tonnerie industrielle. Rev. du Bois 3(12): 3-8. Dec. 1948. 99.82 R32
- 26582 WECHER, A. TE. For what is ash wood used? (In Dutch.) Nederland. Dendrol. Ver. Jaarb. 16: 119-123. 1947. 99.9 N28
- 26583 WEST, C. J. A bibliography of tall oil, supplement II. Appleton, Wis., Inst. Paper Chemistry, 1948. 215 p. 241.4 Ap5
- 26584 WINDISCH, J. Unser holz. Landarbeiter-Archiv 3: 290-296. Oct. 1948. 283.8 L23
- Chiefly utilization.
- 26585 WINTERS, R. K. The importance of economic considerations in wood waste utilization research. J. Forestry 47: 39-44. Jan. 1949. 99.8 F768
- 26586 WRIGHT, G. W. Red gum as a flooring timber. Austral. Council Sci. and Indus. Res. Forest Prod. News Let. 166: 1-2. Aug. 1948. 99.9 Au722F

## Building Construction

- 26587 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Effect of cross-section and span in the centre-point static bending test. Working plan, by J. J. Mack and E. J. Williams. South Melbourne, 1948. 19 p. (Sub-proj. T.M.22-8) 99.79 Au7Ep
- 26588 COCILOVO, F. Very light weight wood for aeronautical construction. (In Italian.) Sci. e Lav. 3: 191-193. Oct. 1948. 475 Sci27
- 26589 MAY, T. K. Grading and seasoning of lumber for farm construction. Agr. Engin. 30(1): 21-22. Jan. 1949. 58.8 Ag83
- 26590 WEST COAST LUMBERMEN'S ASSOCIATION. War experience accelerates standardization of timber design and construction procedures. Portland, Oreg., 1947? 7 p. 296 W522W



Charcoal

- 26591 BERGSTRÖM, H. Lighting the charcoal pit. (In Swedish.) Skogen 35: 290. Dec. 15, 1948. 99.8 Sk51 99.82 W87
- 26592 MOLL, Holzverkohlung. Forstw., Holzw. 2: 292-296. Oct. 1, 1948. 99.8 F7793
- 26593 RISI, J. La carbonisation du bois. Forêt Québécoise 14: 50-51. Jan. 1949. 99.8 F79

Containers

- 26594 BAILEY, N. The ever popular wooden box. Wood Working Digest 50(12): 85-86. Dec. 1948. 99.82 W87
- 26595 HOWELL, J. H. Creates crates! Wood Working Digest 50(12): 89-90, 92. Dec. 1948. 99.82 W87
- 26596 LEWIS, C. D. Review and outlook of the wood container industry. Barrel & Box & Packages 54: 10-11. Jan. 1949. 99.82 B27
- 26597 SOULILLOU, A. Chemins de citeaux aux celliers de Beaune. Rev. du Bois 3(12): 21-24. Dec. 1948. 99.82 R32
- Forests for barrel staves for wine containers.
- 26598 TOWERS, W. K. Problems in packaging the product. Wood-worker 67(11): 56, 58-59. Jan. 1949. Madison Br. Libr.
- 26599 WAGNER, J. B. Woods used in tight cooperage. Barrel & Box & Packages 54: 6-9. Jan. 1949. 99.82 B27

Furniture

- 26600 FITZGERALD, M., and WOODRUFF, L. Refinishing furniture. Mo. Agr. Col. Ext. C. 564, 14 p. Aug. 1948. 275.29 M69C
- Revision of Circular 492.
- 26601 PECK, R. J., and MARION, J. E. Refinishing furniture: natural finishes. Mich. State Col. Agr. Ext. B. 295, 20 p. 1948? 275.29 M58B

Naval Stores

- 26602 LUNDQUIST, E. Investigations on a new tapping method of copal. (In Dutch.) Tectona 38: 197-204. 1948. 99.8 B65
- English summary.
- 26603 MAZEK-FIALLA, K. Die österreichischen harzungsverfahren in der ungarischen harzgewinnung. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 176-177. Nov. 1948. 99.8 AL53
- 26604 MUTICA, C. Proposals on the technique of resin extraction and collecting. (In Romanian.) Rev. Padurilor 63: 150-151. July/Aug. 1948. 99.8 R327
- French summary.
- 26605 SCHOPMEYER, C. S. Effect of 2,4-D on yields of oleoresin from slash and longleaf pines. Sci. Monthly 67: 440-443. Dec. 1948. 470 Sci23
- 26606 U. S. S. R. GLAYNOE UPRAVLENIE LESO-KHIMICHESKIMI KHOZIASTVAMI. Rukovodstvo po podsochke [Handbook on turpentine]. Moskva, Gos.-lesotekhn. izd-vo, 1947. 170 p. 99.77 Un373

Pulp and Paper

- 26607 ATCHISON, J. E. Marshall Plan for paper. Activities of ECA Pulp-Paper Branch. Pulp & Paper 23 (2): 66. Feb. 1949. 302.8 P11
- 26608 BOAS, I. H. A review of Australia's raw material position for pulp and paper. Paper Maker & Brit. Paper Trade J. 117: 16-18, 21. Jan. 1949. 302.8 P1922
- 26609 BUZZELL, H. W. Wood handling equipment at Bathurst. (Abs.) Paper Trade J. 128(6): 20. Feb. 10, 1949. 302.8 P196
- 26610 GRÜNEWALD, W. Holzsparsparnis—holzschliff-bleiche. Papier 2: 56-58. Feb. 1948. 302.8 P1934
- 26611 GUERNSEY, F. W. Wood waste as a source of pulp on the Pacific Coast. Pulp & Paper Mag. Canada 49(13): 110-112. Dec. 1948. 302.8 P96
- 26612 INTERNATIONAL PAPER COMPANY. International Paper Company after fifty years, 1898-1948. New York, 1948. 110 p. 302.9 In81
- 26613 LINDENBERG, H. A. ECA to feature raw materials in 1949 program—will buy pulp and wood when idle capacity available, perhaps other raw materials for paper making. Paper Mill News 72(7): 26-27. Feb. 12, 1949. 302.8 P195
- 26614 LINDENBERG, H. A. \$2 cut in mixed paper emphasizes oversupply—mill buyers cautious toward higher grade wastes—limits on Canadian pulp supply. Paper Mill News 72(3): 24-26. Jan. 15, 1949. 302.8 P195

- 26615 MANLEY, L. The importance of the pulp and paper industry in the economy of Canada. Brit. Columbia Lumberman 32(12): 70, 72, 74, 104, 106, 108, 110. Dec. 1948. 99.81 B77
- 26616 MONSSEN, E. The economic long-term program and pulp industry. (In Norwegian.) Norsk Skog-indus. 2: 297-298. Nov. 1948. 99.82 N81
- 26617 PERRY, H. J. Modernization of smaller groundwood mills. (Abs.) Paper Trade J. 128(6): 22. Feb. 10, 1949. 302.8 P196
- 26618 POST'S paper mill directory, 1949. New York, 1949. 656 p. 302 P842
- 26619 RICHARDSON, W. R. Paper: beating pulp into an industry. Crown 38(1): 9-11, 20-22. Jan. 1949. 389.8 C88
- 26620 TAYLOR, M. N. Future pulpwood for Wisconsin mills. Paper Indus. & Paper World 30: 1528-1530. Jan. 1949. 302.8 P1923
- 26621 WEST, C. J. Pulp and paper manufacture; bibliography and United States patents, 1947. New York, Tech. Assoc. of the Pulp and Paper Indus., 1948. 232 p. 241.4 W52Pa
- 26622 WORK, H. Pulpwood—workhorse of forestry. Forest Farmer 8(5): 9, 18-19. Feb. 1949. 99.8 F7692

Tanning Material

- 26623 RUFF, G. A. Application of nomography to the leather industry. II. Nomograph for calculating the non tannins in powdered chestnut extract. Amer. Leather Chem. Assoc. J. 44: 92-94. Feb. 1949. 303.9 Am32

Veneers, Plywood, and Adhesives

- 26624 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. The effect of the proportion of tetrasulphide on the strength of a soya bean glue, by K. F. Plomley. South Melbourne, 1948. 3 p. (Sub-proj. V.G.4-4, Prog. Rpt. 2) 309 Au7E
- 26625 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Peeling and drying of veneer from plantation-grown loblolly pine and slash pine. 1st report, by C. Alexander and A. J. Watson. South Melbourne, 1947. 4 p. (Expts. V.G.5-42-Y-1; V.G.5-43-Y-1; V.G.7-42-Y-1; V.G.7-43-Y-1) 300.9 Au7
- 26626 BOOTH, F. L. Plywood in bed and caseloads manufacture. Veneers & Plywood 43: 40, 42-43. Jan. 1949. 99.82 V55
- 26627 CARRUTHERS, J. F. S. Cracking of decorative veneer laid on plywood. Wood [London] 13: 344-346. Dec. 1948. 99.82 W855
- 26628 DACRE, J. C. A veneer and plywood conversion study. Empire Forestry Rev. 27: 306-311. Ref. Dec. 1948. 99.8 Em72
- 26629 DOUGLAS FIR PLYWOOD ASSOCIATION. Facts about Douglas fir plywood. Tacoma, 1948. 23 p. 99.77 D75F
- 26630 EGNER, K. Heissverfahren der kunstharzleimung in der holztechnik. Holz-Zentbl. 74: 437-439. Oct. 15, 1948. 99.81 H742
- 26631 GRAHN, H. Plywood manufacture in Finland. Timberman 50(3): 112. Jan. 1949. 99.81 T484
- 26632 HYLER, J. E. The various phases of veneer matching. Veneers & Plywood 43: 28, 30. Jan. 1949. 99.82 V55
- 26633 JENSEN, W. On surface waste in the production of birch plywood. Suomen Paperi- ja Puutavarailehti 30: 425-429. Dec. 15, 1948. 302.8 P1991
- Summary of dissertation.
- 26634 KNIGHT, R. A. G. The doctor roll glue spreader. Wood [London] 14: 14-16. Jan. 1949. 99.82 W855
- 26635 NICHOLS, W. Plywood in building. 2-7. Timber & Plywood 95: 915-916, 960, 962, 1003-1004, 1006, 1041-1042, 1044, 1079-1080, 1082. Dec. 2-30, 1948, Jan. 6, 1949. 99.81 T489
- 26636 ÖGLAND, N. J. The hot air treatment of hard-board. (In Swedish.) Norsk Skogindus. 2: 301-305. Nov. 1948. 99.82 N81
- English summary.
- 26637 PECK, H. W. J. Research in the plywood industry. West Coast Lumberman 75(12): 100, 102, 104, 106. (To be cont.) Dec. 1948. 99.81 W52



- 26639 PERRY, T. D. Glue spreaders. Wood Prod. 54: 39-44. Jan. 1949. 99.82 W856
- 26639 PERRY, T. D. Quality controls for commercial veneer and plywood. Wood Working Digest 51: 159-164. Jan. 1949. 99.82 W87
- 26640 PERRY, T. D. Tapeless splicing of veneer. Wood Working Digest 51: 147-148, 150, 152, 154, 156. Jan. 1949. 99.82 W87
- 26641 STANLEY, G. W., JR. The facts about high frequency in woodworking: edge bonding of thin stock. Natl. Hardwood Mag. 22(12): 59-60, 68; 23(1): 63-66. Jan.-Feb. 1949. 99.81 N212
- 26642 TOWERS, W. K. Problems in the forming of veneer. Veneers & Plywood 43: 14, 16. Jan. 1949. 99.82 V55
- 26643 VAN EPPS, C. F. Spreading synthetic resin glues. Furniture Mfr. 64: 50, 54, 57. Jan. 1949. 300.8 F982
- 26644 VINTILA, E. Physical and mechanical researches on the plywood of *Alnus glutinosa* Gärtner, glued with teco-film. (In Romanian.) Rev. Padurilor 63: 127-132. Ref. July/Aug. 1948. 99.8 R327
- French summary.

#### Wood as Fuel

- 26645 BOWLING, R. T. A small wood briquetting machine. Timber Canada 9(6): 39-41. Feb. 1949. 99.81 T487
- 26646 BRUHN, H. D. Wisconsin wood splitter. Elect. on the Farm 20(10): 9-10. Dec. 1948. 335.8 EL27
- 26647 JENKINS, J. H. Use of wood for heating logging camps. Montreal, 1948. 8 p. (Canadian Pulp and Paper Association. Woodlands Sect. Woodlands Sect. index 962 (B-3) ) 99.77 J412
- 26648 STEIGERWALDT, E. F. Japan's fuelwood problem. Amer. Forests 55(2): 17, 41. Feb. 1949. 99.8 F762

#### MISCELLANEOUS

- 26649 ANDERSON, F. E. Forest conservation. Interstate Com. Dela. River Basin. Rpt. 1947/1948: 18-19. 292.9 In83A
- 26650 BALDWIN, H. I. The urban environment of foresters. J. Forestry 47: 36-38. Jan. 1949. 99.8 F768
- 26651 BENNETT, H. D. Conservation in action. Lake States Timber Digest 3(8): 4. Jan. 27, 1949. 99.81 L14
- 26652 JOHNSON, P. Notes on forestry in an earlier age. (In Swedish.) Skogsägaren 24: 245-249. Dec. 1948. 99.8 Sk55
- 26653 NORDSTRÖM, L. Danger of accident through use of kerosene for lighting fire for burning of clear cut area. (In Swedish.) Skogen 35: 291. Dec. 15, 1948. 99.8 Sk51
- 26654 ROBERTSON, W. Forestry—a profession. (Excerpts.) Pulp & Paper Mag. Canada 49(13): 126, 128, 130. Dec. 1948. 302.8 P96
- 26655 SCOTT, C. W. Fifth British Empire Forestry Conference, 1947. Review of papers submitted on utilization subjects. Empire Forestry Rev. 27: 284-293. Dec. 1948. 99.8 Em72
- 26656 SKINNEMOEN, K. The Norwegian Forestry Association through 50 years. (In Norwegian.) Tidsskr. for Skogbruk 56: 206-211. Sept. 1948. 99.8 T432
- 26657 SWAIN, E. H. F. "Save the trees" campaign in Queensland. Australasian Beekeeper 50: 142-144. Dec. 15, 1948. 424.8 Au72
- 26658 WEATHERBY, H. • B. C. Forest Service radio network is largest in Dominion. Brit. Columbia Lumberman 33: 68, 78. Jan. 1949. 99.81 B77

#### Education

- 26659 BERNIER, G. H. L'école de protection des forêts. Forêt Québécoise 14: 9-13. Jan. 1949. 99.8 F79
- 26660 BOYNTON, P. Education for teaching forestry. Forest Farmer 8(4): 5, 10. Jan. 1949. 99.8 F7692
- 26661 CHASE, W. E. Forestry education in the junior college. J. Forestry 47: 57-59. Jan. 1949. 99.8 F768
- 26662 DELISLE, R. Cours d'initiation forestière à Duchesnay. Forêt Québécoise 14: 45. Jan. 1949. 99.8 F79
- 26663 EWING, T. V. Forestry schools in Virginia. Agr. Ed. Mag. 21: 155. Jan. 1949. 275.8 Ag8

- 26664 GRAVES, H. S. When forestry education began. Amer. Forests 55(2): 18-19, 37, 40. Feb. 1949. 99.8 F762
- 26665 GUISE, C. H. Statistics from schools of forestry for 1948: degrees granted and enrollments. J. Forestry 47: 93-100. Feb. 1949. 99.8 F768
- 26666 KITCHENS, J. H., JR. Educating the educators. Amer. Forests 55: 24-25, 43. Jan. 1949. 99.8 F762
- Visual aids in teaching forestry.
- 26667 VOGEL, F. H., and DORR, H., JR. Alabama Polytechnic Institute—new center of forestry education. South. Lumberman 178(2227): 44, 46. Jan. 15, 1949. 99.81 So82

#### Forest Engineering

- 26668 DUBRET, R. La misère des chemins forestiers. Bois et Scieries 54: 1015-1016. Dec. 23, 1948. 99.81 B632
- 26669 KHEIFETS, I. S., and KARAVAEV, V. I. Automobile log roads with transportable structure for temporary miter joints. (In Russian.) Lesn. Promysh. 8(6): 6-7. June 1948. 99.82 L56
- 26670 MORRISON, V. L. Keeping roads alder free by the use of chemical sprays. Brit. Columbia Lumberman 33: 108, 110. Jan. 1949. 99.81 B77
- 26671 THURMANN-MOE, P. On the use of dynamite in making forest ditches. (In Norwegian.) Norsk Myrselskap. Meddel. 46: 134-140. Dec. 1948. 11 N813
- 26672 VAERSTED, E. Forest automobile roads. (In Norwegian.) Skogbrukeren 23: 273-274. Dec. 15, 1948. 99.8 Sk54

#### Forest Influences

- 26673 CALIFORNIA. DEPT. OF NATURAL RESOURCES. DIV. OF FORESTRY. Influence of woodland chaparral on water and soil in central California. n. p., 1948. 70 p. 56.7 C122
- 26674 TRUJILLO, P. El bosque forrajero, normalizador del caudal de agua. Ganadería [Madrid] 6: 540-542. Oct. 1948. 49 G15
- 26675 WILM, H. G., and DUNFORD, E. G. Effect of timber cutting on water available for stream flow from a lodgepole pine forest. U. S. D. A. Tech. B. 968, 43 p. Ref. Nov. 1948. 1 Ag84Te

#### Wildlife

- 26676 ADAMS, L. Deer browsing on ponderosa pine. Mont. Acad. Sci. Proc. 1947-48(7-8): 65-66. 1948. 500 M762
- 26677 DE GARMO, W. R. A program of forest wildlife management. Northeast. Game Conf. Proc. 1948: 44-48. 412.9 N44
- West Virginia.
- 26678 HOUGH, A. F. Deer and rabbit browsing and available winter forage in Allegheny hardwood forests. J. Wildlife Mgmt. 13(1): 135-141. Ref. Jan. 1949. 410 J827

#### ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

#### BREEDS AND BREEDING

- 26679 BONADONNA, T. Artificial insemination in northern and western Europe. (In Italian.) B. dell'Agr. 82(19): 3-4. (To be cont.) Oct. 1, 1948. 16 B87
- 26680 CARLO, B. Artificial insemination seen by a farmer. (In Italian.) Agr. Trevisano 4(13/14): 1. Sept. 1, 1948. 16 Ag8258
- 26681 EGYPT. MINISTRY OF AGRICULTURE. Animal breeding improvement in Egypt. Cairo, 1948. 25 p. 40 Eg9
- 26682 FOSTER, C. A breeding principle worth considering. Poultry [London] 103: 394. Nov. 16, 1948. 47.8 P869
- Livestock.
- 26683 GAVIRIA TORRES, J. La inseminación artificial. Rev. Nac. de Agr. [Bogotá] 42(515): 36-38. Mar. 1948. 9.4 R32



- 26684 GOMEZ LAPEYRE, M. Fundamentos teóricos de la inseminación artificial. *Campo y Suelo Argentino* 32(385): 7-8. Nov. 1948. 9 C15
- 26685 GORZÓN, B. Interpretación de un pedigree. *Rev. Ganad. [San Salvador]* 8(108/109): 13-14. Nov./Dec. 1948. 8 R3292
- 26686 HACKETT, P. J. The need is for the feeder type. *Shorthorn World* 33(19): 11, 40-42. Jan. 10, 1949. 43.8 Sh8
- Early maturity and rapid gains in breeding for meat production.
- 26687 HART, G. H. Science paves the way for progress. *West. Livestock J.* 27(6): 36, 56, 60, 62. Dec. 15, 1948. 6 F2278
- Chiefly livestock breeding.
- 26688 LLORENS, M. A. Práctica de la inseminación artificial en la Argentina. *Esnea* 35(1509): 2; (1511): 2; (1512): 2; (1513): 2; (1514): 2. Dec. 10, 24, 1948-Jan. 17, 1949. 44.8 Es5
- 26689 LUSH, J. L. Scientist tells of discoveries in animal breeding; extremes in parents not always inherited. *Primary Prod. [Sydney]* 25(46): 17. Nov. 26, 1948. 23 P93
- 26690 MORALES, P. T. La esterilidad en los animales domésticos. *Chacra* 19(218): 32-33. Dec. 1948. 9 C34
- 26691 MORGAN, B. B. First International Congress of Physiology and Pathology of Animal Reproduction and of Artificial Insemination. *Science* 108: 465-466. Oct. 29, 1948. 470 Sci2
- 26692 ORENSANZ MOLINE, J. Estaciones de sementales e irradiación de espermatozoides. *B. de Divulg. Ganad. [Valladolid]* 5(19): 7-11. Sept. 1948. 49.9 Sp12
- Horses and bulls for stud purposes and artificial insemination.
- 26693 RICHEME, E. Echos du Centre d'Insemination Artificielle. *Jura Agr. (n. s.)* 1948(16): 1. Dec. 15, 1948. 14 J97
- 26694 RODALE, J. I. Artificial insemination. *Organic Gard.* 14: 12-15. Jan. 1949. 56.8 Or3
- 26695 SENSE, A. The functional sterility. (In Polish.) *Med. Wet.* 4(11): 721-728. Ref. Nov. 1948. 41.8 M463
- English summary.
- Livestock.
- 26696 TERRUZZI, F. A year of activity of the artificial insemination center for the Province of Brescia. (In Italian.) *Agr. Bresciana* 1(44): 2. Nov. 3, 1948. 16 Ag89
- 26697 TOMSON, C. K. Goals in purebred livestock production—to improve quality, type and efficiency of registered animals. *Shorthorn World* 33(19): 7-8, 29. Jan. 10, 1949. 43.8 Sh8
- 26698 YOUNG, D. J. Artificial breeding in Delaware. *South. Planter* 110: 36-37. Jan. 1949. 6 So89
- 26707 CASADO DE LA PUENTE, C. La hoja y el ramón de olivo en la alimentación animal. *Ganadería [Madrid]* 6: 341-344. July 1948. 49 G15
- 26708 CHATTERJEE, I., HYE, A., and ALI, S. Nutritive values of different parts of napier grass. *Indian J. Vet. Sci. & Anim. Husb.* 17: 253-260. Dec. 1947. 41.8 In22
- 26709 CIOFFI, R. M. Digestibility of feed cakes. (In Italian.) *Agr. Bresciana* 1(44): 1-2. Nov. 3, 1948. 16 Ag89
- 26710 COFFEY, J. S. Mineral feeding. *Farm Q.* 3(4): 56-59, 108-110. Winter 1948. 6 F22995
- 26711 COMBES, L. Bang went the silo; ensiling wet beet pulp is not without difficulties for the uninitiated, but it was worth the trouble of finding the right way to handle it. *Farmers Weekly [London]* 29(24): 41. Dec. 10, 1948. 10 F2226
- 26712 CONNOR, R. L. Home mixed grain feed most economical. *Falls Cities Coop. Dairyman* 17(19, i. e. 10): 4. Oct. 1948. 280.28 F19
- 26713 CUNHA, T. J. Mineral needs—sunshine & vitamin D are as important as calcium & phosphorus for livestock. *West. Livestock J.* 26(59): 88, 90. Oct. 15, 1948. 6 F2278
- 26714 DAS GUPTA, N. C. Some cereal grains as cattle feed. *Indian Farming* 8: 342-343. July 1947. 22 In283
- 26715 DHARMANI, L. C., LOHARA, K. S., and AKBAR ALI, N. Some digestibility trials on Indian feeding stuffs. XIII. Desi sugarcane, saccharum barbari Jesw (Katha). *Indian J. Vet. Sci. & Anim. Husb.* 17: 261-264. Dec. 1947. 41.8 In22
- 26716 DIAZ UNGRIA, C. La alimentación en los animales enfermos. *B. de Divulg. Ganad. [Valladolid]* 5(19): 20-29. Ref. Sept. 1948. 49.9 Sp12
- 26717 DIAZ UNGRIA, C. Conservación de alimentos para el ganado. *Ganadería [Madrid]* 6: 345-348. July 1948. 49 G15
- Hay and silage.
- 26718 DIJKSTRA, N. D. Silage-making in the Netherlands. *Empire J. Expt. Agr.* 16: 231-236. Ref. Oct. 1948. 10 Em7
- 26719 DINNING, J. S., and others. Urea in livestock feeding. *Amer. Vet. Med. Assoc. J.* 114: 90-92. Ref. Feb. 1949. 41.8 Am3
- H. M. Briggs, W. D. Gallup, O. B. Ross, L. H. Moe, and R. L. Butler, joint authors.
- 26720 EKELUND, S. Ensilage with addition of acids or sugar? (In Swedish.) *Lantmannen* 33: 87. Feb. 5, 1949. 11 L234
- 26721 ETCHELLES, J. L., and JONES, I. D. Bacteriological changes during the fermentation of steamed potatoes for silage. *J. Agr. Res.* 78: 19-31. Ref. Jan. 1/15, 1949. 1 Ag84J
- 26722 FORMIGONI, L. Nutrition. (In Italian.) *Campagna* 47: 298, 300-302. Nov. 1948. 16 C152
- Of various types of livestock.
- 26723 GARCÍA ROMERO, A. El ensilado de sarmientos de vid para la alimentación del ganado. *Siembra* 1948(11): 18-19. Nov. 1948. 15 Si1
- 26724 GARCÍA SAINZ, J. Fundamentos de la alimentación animal. *Ganadería [Madrid]* 6: 422-423. Aug. 1948. 49 G15
- 26725 GARRAD, G. H. Conservation of grass etc. for winter use; demonstration at Home Farm, Eynsford. *Kent Farmers' J.* 64: 72-73. Nov. 1948. 10 K41
- 26726 GERNERT, G. Über den wert von futter-knochenmehl. *Landfrau* 3(21/22): 19. Nov. 1948. 18 L2337
- 26727 GORBACHEVA, A. P. On the unification and standardization of methods in zootechnical analysis. (In Russian.) *Vsesofūzn. Nauch. Issled. Inst. Zhivotn. Trudy* 15: 167-173. 1947. 49.9 R92
- Chiefly feed.
- 26728 GREGG, M. Just any old hay 'ain't hay.' *West. Live Stock* 34(3): 34-35. Oct. 1948. 49 W523
- Feeding value of alfalfa harvested and stored in different ways.
- 26729 HALVERSON, A. W., and HART, E. B. The influence of water level and temperature of storage on carotene preservation in dehydrated alfalfa, cereal grasses and mixed feeds. *J. Dairy Sci.* 31: 1008-1015. Dec. 1948. 44.8 J822

## FEEDS AND FEEDING

- 26699 AXELSSON, J. An international problem of first order; optimum of fiber content and concentration of feed for ruminants. (In Swedish.) *Lantmannen* 33: 63-64. Jan. 22, 1949. 11 L234
- 26700 BOHSTEDT, G. 1 in 3,000,000! A pinhead of cobalt joins a smidgen of iodine as another trace mineral, lack of which may be causing you plenty trouble. *Breeder's Gaz.* 114(3): 8, 35. Mar. 1949. 49 B74
- 26701 BOUCHER, R. V. Yeast in livestock and specialty feeds. *Amer. Miller & Processor* 77(1): 170, 175. Jan. 1949. 298.8 Am32
- 26702 BUTZ, O. Fütterungslehre. Hannover, Schaper, 1947. 100 p. 389.7 B982
- 26703 CANADA. DEPT. OF AGRICULTURE. Potatoes for livestock. *Canada. Dept. Agr. C.* 179, 4 p. Nov. 1948. 7 C16C
- 26704 CANO, A. E. La avena en la alimentación del ganado. *Campo y Suelo Argentino* 32(386): 4-5, 42. Dec. 1948. 9 C15
- 26705 CANO, A. E., and GARCÍA MATA, E. Empleo del trigo en la alimentación del ganado. *Rev. Mens. Ilus. B. A. P.* 32(374): 7-8. Jan. 1949. 9 R326
- 26706 CASA PACHECO, MARQUÉS DE. Contrastes y deducciones. *Cult. Mod.* 31: 328. Sept. 1948. 15 C89
- Feed requirements of livestock.



26730 HOLLAND, C. A. State and divisional fodder conservation and supplementary forage competitions, 1948. Tasmanian J. Agr. 19: 237-247. Nov. 1948. 23 T182T

26731 IDVALL, S. Feed value of the 1948 hay crop. (In Swedish.) Kalmar Läns Norra Hushållningssällsk. Kvrtlsskr. 8: 117-119. 1948. 11 K12

26732 JÄNNES, J. Concentration of dry substance and fiber content in cattle feed. (In Swedish.) Lantmannen 33: 42-43. Jan. 15, 1949. 11 L234

26733 KERSHAW, C. J. Pasture silage making in the Circular Head municipality. Tasmanian J. Agr. 19: 168-175. Nov. 1948. 23 T182T

26734 KUMMER, H. Ueber milocorn und seinen futterwert. Württemb. Wchnbl. f. Landw. 115: 325-326. Nov. 6, 1948. 18 W96

26735 LO, I. Kale. Norsk Landbr. 15: 24-26. Jan. 21, 1949. 11 N8122  
For feed.

26736 LURASCHI, A. Rational feeding of livestock with balanced concentrate mixtures prepared by the Como Consorzio Agrario Provinciale. (In Italian.) Campagna 47: 293-295. Nov. 1948. 16 C152

26737 MCDERMOTT, C. D. Distillers and feed industry. Westernnews 10(5): 12-15. Jan. 1949. 389.78 W522

26738 MCMILLAN, B., and NAEGELY, F. Molasses can cut feed bills. G. L. F. Week Serv. Sched. 13(30): 1. Jan. 24, 1949. 280.28 G113W

26739 MARKOVA, K. V. Methods of analysis of the carbohydrate-lignin complex in feeds. (In Russian.) Vsesoiuzn. Nauch. Issled. Inst. Zhivotn. Trudy 15: 174-184. Ref. 1947. 49.9 R92

26740 MATTHEWS, J. A. Vitamin E for livestock. Breeder's Gaz. 114(2): 33. Feb. 1949. 49 B74

26741 MEDICI, R. F. Nutrition and energy consumption. (In Italian.) Ital. Agr. 85: 660-661. Nov. 1948. 16 It1  
Livestock.

26742 NEVENS, W. B., HARSHBARGER, K. E., and KENDALL, K. A. Legumes and grasses for silage; a report of experiments. Ill. Agr. Expt. Sta. B. 529, 27 p. Nov. 1948. 100 IL6S

26743 NORDFELDT, S. Crude fiber—its chemical nature, appearance in plants and methods for its determination. (In Swedish.) K. Lantbruksakad. Tidskr. 87: 346-369. Ref. 1948. 104 Sw3  
English summary.  
In feed.

26744 NORRIS, L. C. The recommended nutrient allowances for domestic animals of the National Research Council. Feedstuffs 21(3): 36, 38, 40, 42, 44-45. Jan. 15, 1949. 286.81 F322

26745 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Farming in Sweden. North. Ireland. Min. Agr. Monthly Rpt. 23: 226-228. Dec. 1948. 256.13 Ag82M

Hay making, silage making, and pasture management.

26746 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Silage for self-sufficiency. VI-VII. North. Ireland. Min. Agr. Monthly Rpt. 23: 258-260; 290-291. Jan.-Feb. 1949. 256.13 Ag82M

26747 OHL, R. Runkelblatt, das verkannte futtermittel. Erfurt, 1948. 32 p. (Karteikurzberichte-Fach-schriftensammlung, v. 5) 389.7 Oh4

26748 OLIVE, J. P. L'emploi des hormones dans l'alimentation du bétail. Agr. Prat. 112: 435. Dec. 1948. 14 J82

26749 OLIVE, J. P. L'importance toute particulière de l'alimentation minérale. Agr. Prat. 112: 389-390. Nov. 1948. 14 J82

26750 OLIVER, P. J. El arte de hacer pastorear las praderas. Campo y Suelo Argentino 32(386): 10-11, 19. Dec. 1948. 9 C15

26751 PECK, L. Calculating ingredients of formula feeds. Grain & Feed J. Consolidated 102(2): 21. Jan. 26, 1949. 298.8 G762

26752 PECK, L. Feeding the livestock. Flour & Feed 49(9): 12-13. Feb. 1949. 298.8 F66

26753 POPENOE, W. El chfcharo o frijol de palo. Rev. de Agr. [San José] 20(12): 475-478. Dec. 1948. 8 Es1

Pigeonpea as feed.

26754 RASMUSSEN, R. A. Distillers feeds in animal nutrition. Chemurgic Digest 8(1): 8-10. Jan. 1949. 381 N213Na

26755 REISNER, L. Using grass silage in the cash Grain Belt. Ill. Agr. Assoc. Rec. 26(12): 16. Dec. 1948. 6 IL62  
Chiefly preparation.

26756 REYNOLDS, S. M. Breeder describes his formula. Primary Prod. [Sydney] 25(45): 8. Nov. 19, 1948. 23 P93  
Feeding.

26757 RIPLEY, P. O. Silage in Canada. Empire J. Expt. Agr. 16: 237-240. Oct. 1948. 10 Em7

26758 ROBINSON, H. G. Surplus potatoes for stock feeding. Gt. Brit. Min. Agr. Agriculture 55: 423-426. Jan. 1949. 10 G79J

26759 ROHSTEDT, G. Trace minerals in the [live-stock] ration. Feedstuffs 20(50): 17-20. Dec. 11, 1948. 286.81 F322

26760 RUDE, Ueber die verfütterung von gärfutter. Württemberg. Wchnbl. f. Landw. 116: 40. Jan. 22, 1949. 18 W96

26761 RUNEFORS, O. On this year's hay analysis. (In Swedish.) Jönköpings Läns Hushållningssällsk. Handl och Tidskr. 1948: 56-57. 11 J732

26762 SCHAEFER, H. C. Alfalfa as a source of carotene. Feedstuffs 20(46): 34-38. Nov. 13, 1948. 286.81 F322

26763 SHIPLEY, M. A., and HEADLEY, F. B. Nutritive value of wild meadow hay as affected by time of cutting. Nev. Agr. Expt. Sta. B. 181, 23 p. Aug. 1948. 100 N41S

26764 SIROTTI, G. Forage problem and silos. (In Italian.) Romagna Agr. e Zootec. 33(4): 1. Apr. 1948. 16 R66

26765 TAYLOR, J. J. Citrus by-product feeds. Feedstuffs 21(6): 48-50. Feb. 5, 1949. 286.81 F322

26766 TÖTH, L. Nitrogen fixing microorganisms in the alimentary canal of herbivorous farm animals. Experimentia 4: 395-396. Oct. 15, 1948. 475 Ex7

26767 TURK, K. L. Feeding of concentrates. Flour & Feed 49(9): 22. Feb. 1949. 298.8 F66

26768 U. S. BUR. OF DAIRY INDUSTRY. Forage harvesting experiments at Beltsville, Md. U. S. Bur. Dairy Indus. BDIM-1041, 5 p. Jan. 1949. 1.9 D14Bd  
Chiefly data on nutritive value of hay.

26769 U. S. BUR. OF DAIRY INDUSTRY. Silage making experiments at Beltsville, Md. U. S. Bur. Dairy Indus. BDIM-1042, 17 p. Jan. 1949. 1.9 D14Bd

26770 VALLES FERNÁNDEZ, P. La legislación de pastos y rostrojeras y sus problemas. II. B. de Divulg. Ganad. [Valladolid] 5(19): 30-34. Sept. 1948. 49.9 Sp12

26771 VOSS, R. C. Trace elements and animal health. Vet. Rec. 61: 39-40. Jan. 22, 1949. 41.8 V641

26772 WILGUS, H. S. Trace minerals in the nutrition of farm animals. Amer. Miller & Processor 77(1): 176, 182, 186, 208. (Abs.) Jan. 1949. 298.8 Am32

26773 WILLIAMS, G. A. Good hay worth sixty per cent as much as grain. Hoard's Dairyman 94: 66. Jan. 25, 1949. 44.8 H65

26774 YEASTS in feeding. Canner 107(20): 24, 26. Nov. 13, 1948. 286.83 C16

A symposium by the Quartermaster Food and Container Institute for the Armed Forces, the yeast industry, the Brewers Yeast Council, and Associates Food and Container Institute.

Similar title in Amer. Miller & Processor 77(1): 170, 175. Jan. 1949. 298.8 Am32

26775 ZELTER, S. Z. Quel est le meilleur procédé actuel d'utilisation et de conservation des pulpes de betterave? J. de la France Agr. 4: 973, 976. Nov. 12/18, 1948. 14 J829

#### VETERINARY MEDICINE

26776 ABDERHALDEN, E., and PARSCHIN, A. Weitere untersuchungen über das verhalten von diketopiperazinen im tierischen organismus. Z. f. Vitamin-, Hormon- u. Fermentforsch. 1(1/2): 21-26. 1947. 384 Z324

26777 ANADÓN PINTÓ, R. Academia Veterinaria. Lérida Ganad. 3: 166-167. Aug. 1948. 41.8 L56  
A proposed new section of the Colegio Oficial de Veterinarios in Lérida.



- 26778 ANADÓN PINTÓ, R. Denominación de los precursores de la actual veterinaria. *Lérida Ganad.* 3: 215-216. Oct. 1948. 41.8 L56
- 26779 ANDREEV, P. P. Veterinarnafá desmurgia; uchenie o poviazkakh [Veterinary "desmurgy"; the teaching of bandaging]. Moskva, Sel'khozgiz, 1947. 110 p. (Uchebniki i Uchebnye Posobiá dlia Vysshikh Sel'sko-khozháistvennykh Uchebnykh zavedenii) 41 An24
- 26780 ANTELYES, J. Lessons in radiographic interpretation. *North Amer. Vet.* 29: 712-714. Nov. 1948. 41.8 N812
- 26781 APICE, M. D'. Brucellosis in livestock. (In Portuguese.) *Soc. Rur. Brasileira. Rev.* 28(338): 20-22. Nov./Dec. 1948. 9.2 B733
- 26782 ARANOVICH, C. La tuberculosis, su diagnóstico y prevención. Buenos Aires. *Dir. Med. Vet. B.* 5(23/26): 59-61. 1948. 41.9 B865
- 26783 ARGENTINA. DIRECCIÓN DE ZOOTEKNIA. La Estación Zootécnica de Abra-Pampa, Provincia de Jujuy. Argentina. *Dir. de Inform. P. Misc.* 267, 16 p. 1947. 9 P943
- 26784 ARGENTINA. DIRECCIÓN DE ZOOTEKNIA. La Estación Zootécnica de Palpalá, Provincia de Jujuy. Argentina. *Dir. de Inform. P. Misc.* 266, 16 p. 1947. 9 P943
- 26785 ATRISTAIN, F. La adaptación natural de la leche a las necesidades de la especie. *Rev. de Agr. Trop. [Salvador]* 14(25): 34-38. 1947. 8 R326
- 26786 AYALA MARTÍN, E. Influencia de las glándulas de secreción interna en la morfología y piquismo de los animales. *Ganadería [Madrid]* 6: 419-421. Aug. 1948. 49 G15
- 26787 AYRES, F. Address, on practice of veterinary medicine in Brazil. (In Portuguese.) *Lavoura* 52: 45-47. Sept./Oct. 1948. 9.2 L39
- 26788 BELIN, M. Contribution à l'étude de l'immunité conférée par les complexes vaccino-aphteux formolés. *Acad. Vét. de France. B.* 21: 371-374. Nov. 1948. 41.9 R24
- 26789 BLAKEMORE, F., BOSWORTH, T. J., and GREEN, H. H. Industrial fluorosis of farm animals in England, attributable to the manufacture of bricks, the calcining of ironstone, and to enamelling processes. *J. Compar. Path. & Ther.* 58: 267-301. Ref. Oct. 1948. 41.8 J82
- 26790 BOUGHTON, I. B. Dificultades y lecciones de la lucha contra la aftosa en el Norte de México. *Res* 16: 23136-23138. Dec. 20, 1948. 286.85 R31
- 26791 BRASH, A. G. Producing immunity of stock from diseases. *New Zeal. J. Agr.* 77: 605, 607-608. Dec. 1948. 23 N48J
- 26792 BROCK, J. E. Facing the facts in Mexico. *Cow Country* 76(8): 4. Jan. 3, 1949. 49 C83
- Foot-and-mouth disease control.
- 26793 BRUHN, P. A. The Brucella abortus ring test. *Amer. J. Vet. Res.* 9: 360-369. Ref. Oct. 1948. 41.8 Am3A
- Test on milk sample.
- 26794 BRUN, M. Le vaccin anti-aphteux Belin en pratique rurale algérienne. *Acad. Vét. de France. B.* 21: 375-380. Nov. 1948. 41.9 R24
- 26795 CALIFORNIA. LEGISLATURE. SENATE. INTERIM COMMITTEE ON LIVESTOCK DISEASES. Report on foot and mouth disease. Partial report. Sacramento? 1948. 445 p. 41 C123
- 26796 CANADA. DEPT. OF AGRICULTURE. VETERINARY DIRECTOR GENERAL. Report for the year ended March 31, 1948. 49 p. Ottawa, 1948. 41.9 C16
- 26797 CAPOBIANCO. Le programme actuel de la lutte contre les brucelloses. *Off. Internatl. des Épizoot.* B. 30: 45-73. May 1948. 41.8 Of2
- 26798 CASÓS, G. A. Egagropilos. *Campo y Suelo Argentino* 32(386): 67. Dec. 1948. 9 C15
- Hairballs in livestock.
- 26799 CHAMBERLAIN, H. V. Gestation periods of farm animals. *So. Austral. Dept. Agr. J.* 52: 183-184. Nov. 1948. 23 So84
- 26800 CHEVRIER. Les mammites. *Terre Maroc.* 20: 327-328. Dec. 1948. 24 T44
- 26801 CLER, G. O. Rumia y rumiación (consideraciones generales: fisiología, alteraciones, profilaxis y tratamiento). Buenos Aires. *Dir. Med. Vet. B.* 5(23/26): 52-54. 1948. 41.9 B865
- 26802 CLER, G. O. Sintomatología de la rabia en los distintos animales domésticos; consideraciones generales. Buenos Aires. *Dir. Med. Vet. B.* 5(23/26): 13-15. 1948. 41.9 B865
- 26803 COFFEE, W. M. Technic of direct blood transfusions in large animals. *Vet. Med.* 44: 113. Mar. 1949. 41.8 M69
- 26804 DALLING, T. The control of diseases of livestock. *Sci. Prog.* 37: 12-22. Jan. 1949. 472 Sci22
- 26805 DALLING, T. Tuberculine et épreuve a la tuberculine. *Off. Internatl. des Épizoot. B.* 30: 157-168. May 1948. 41.8 Of2
- 26806 DANKS, G. Wound infections. *Amer. Vet. Med. Assoc. J.* 114: 61-64. Feb. 1949. 41.8 Am3
- 26807 DATTA, S. The nature and significance of veterinary problems in ancient and modern India. *Indian Vet. J.* 25: 115-121. Nov. 1948. 41.8 In2
- 26808 DAVIDSON, J. L. Streptomycin. *Auburn Vet.* 5(1): 16-18, 42. Fall 1948. 41.8 Aul
- Veterinary use.
- 26809 DECAMP, C. E. A new antibacterial surgical dressing; preliminary clinical report. *Amer. Vet. Med. Assoc. J.* 114(862): 6-9. Jan. 1949. 41.8 Am3
- Furacin.
- 26810 DENYER, R. C. Hydatid disease. *Ágr. Gaz. N. S. Wales* 59: 577-579. Nov. 1, 1948. 23 N472
- In livestock and man.
- 26811 DÍAZ UNGRIA, C. Daños que originan los parásitos en la ganadería. *Agr. (ser. 2) 4: 191-192, 216.* Oct. 1948. 33.23 Ag3
- 26812 DYE, J. A., and MCCANDLESS, E. L. A physiological approach to the problem of ketosis. I. Basic features of the metabolic processes concerned in ketosis. *Cornell Vet.* 38: 331-340. Ref. Oct. 1948. 41.8 C81
- 26813 EVANS, E. T. R., and EVANS, W. C. Studies on the biochemistry of pasture plants. 2. The pharmacological properties of certain pasture plant juices, and their possible significance in the aetiology of some disorders of the grazing animal. *Brit. Grassland Soc. J.* 3: 249-261. Ref. Dec. 1948. 60.19 B773
- 26814 FALCONE, N. F. Estudio de la calcemia normal de nuestros animales domésticos. Buenos Aires. *Dir. Med. Vet. B.* 5(23/26): 57-58. 1948. 41.9 B865
- 26815 FELSENFELD, O., GONZÁLEZ, L. M., and YOUNG, V. M. Studies on salmonellosis in Puerto Rico. I. Salmonella types isolated from man and animals [rats, swine, cattle, and poultry] in Puerto Rico. *Puerto Rico J. Pub. Health & Trop. Med.* 24(1): 9-15. Ref. Sept. 1948. 448.8 P83
- Same in Spanish, p. 16-23.
- 26816 FERRARI, L. Conflict of interests in obligatory immunization. (In Italian.) *Clin. Vet. [Milan]* 71: 310-312. Sept. 1948. 41.8 C61
- 26817 FLÜCKIGER, G. Über neuzeitliche schutzimpfungsverfahren. *Schweiz. Arch. f. Tierheilk.* 91: 1-14. Ref. Jan. 1949. 41.8 Sch9
- 26818 FOLSE, D. S. Pseudorabies. *Auburn Vet.* 5(1): 21-24, 42-44. Ref. Fall 1948. 41.8 Aul
- 26819 FORUM "General practice." III. *Iowa Vet.* 20(1): 13-17. Jan./Feb. 1949. 41.8 I69
- Led by G. R. Fowler; Subjects discussed: winter dysentery - cattle; trichinosis - man; differentiation between swine dysentery and necrotic enteritis; restraint for Caesarean section; sows off feed after farrowing; pantothenic acid deficiency.
- 26820 FRICK, E. J. Things a veterinarian can do for you. *East. Breeder* 10(9): 48. Feb. 1949. 49 U81
- 26821 GADOLA, A. Zootechnia profilassi e igiene zootechnica in Africa orientale [Prevention of animal disease, and livestock sanitation in East Africa]. Roma, Istituto superiore di sanità, Fondazione Emanuels Paternò, 1947. v. 2. 40 G122
- 26822 GASSNER, F. X. Applied endocrinology in veterinary medicine. *Norden News* 23: 4-5. Jan./Feb. 1949. 41.8 N75
- 26823 GENEST, P. Observations sur les examens de laboratoire pour le vétérinaire praticien. *Canad. J. Compar. Med.* 13(1): 7-9. Jan. 1949. 41.8 C162
- 26824 GIANA, A. Observations of a practical veterinarian in central Africa. (In Italian.) *Clin. Vet. [Milan]* 71: 239-243. July 1948. 41.8 C61
- 26825 GLADSTONE, G. P. Immunity to anthrax. Production of the cell-free protective antigen in cellophane sacs. *Brit. J. Expt. Path.* 29: 379-389. Oct. 1948. 448.8 B772
- 26826 GONZÁLEZ OVEJERO, L. El shock en los animales. *Veterinaria* 12: 679-700, 751-772. Oct.-Nov. 1948. 41.8 V6429



- 26827 GOWEN, J. W. Inheritance of immunity in animals. *Ann. Rev. Microbiol.* 2: 215-254. Ref. 1948. 448.3 An72
- 26828 HALL, O. Contagious diseases section. Canada. Dept. Agr. Rpt. Vet. Dir. Gen. 1948: 7-38. 41.9 C16
- Livestock, diseases statistics.
- 26829 HANSEN, A. C. Om forekomsten af salmonellabakterier hos husdyr i Danmark [On the occurrence of *Salmonella* bacteria in livestock in Denmark]. København, 1947. p. 369-387. (Meddelelser fra Københavns Sundhedskommissions Laboratorium. 11) 448.2 H193
- 26830 HAYNES, C. F. Effective livestock disease control. *Oreg. Dept. Agr. Agr. B.* 160: 17-20. Dec. 1948. 2 Or3
- 26831 HEBELER, H. F. C. Contract practice. *Vet. Rec.* 61: 3-4. Jan. 1, 1949. 41.8 V641
- 26832 HEGAZI, A. The inferior buccal gland in the camel. *Vet. Rec.* 61: 10-11. Jan. 8, 1949. 41.8 V641
- 26833 HOFMANN, Die maul- und klavenseuche. *Deut. Viehhandel* 3(23): 5. 1948. 49 D482
- 26834 JACOB. Kokzidien und ihre entstehung. *Deut. Pelztierzucht.* 22: 221-225. Dec. 15, 1948. 412.628 D48
- 26835 JORDANO, D. Bronconeumonia de un chimpancé curada con penicilina. *B. Zootec.* 4: 199-202. July 1, 1948. 41.9 Sol6
- 26836 KEEN, F. C. The control of infectious mastitis; results from dairy sterilizers. *So. Austral. Dept. Agr. J.* 52: 83. Sept. 1948. 23 So84
- 26837 KELSER, R. A., and SCHOENING, H. W. Manual of veterinary bacteriology. Ed. 5. Baltimore, Williams & Wilkins, 1948. 767 p. 448.2 K29
- 26838 KHUEN, E. C. Traumatic injuries of the eyelids and eye. *North Amer. Vet.* 29: 715-717. Nov. 1948. 41.8 N812
- 26839 KIRKSEY, G. Progress report on aftosa in Mexico. *Amer. Brahman J.* 3(9): 11-12, 14. Jan. 1949. 43.8 Am33
- Similar title in *West. Live Stock* 34(5): 54-55, 134. Dec. 1948. 49 W523; *Amer. Hereford J.* 39(18): 36-37. Jan. 15, 1949. 43.8 Am32
- 26840 KNICKERBOCKER, M. E. Oregon's Department of Agriculture and Oregon's livestock industry. *Oreg. Dept. Agr. Agr. B.* 160: 3-5. Dec. 1948. 2 Or3
- Chiefly disease control legislation and regulations.
- 26841 KNOWLES, R. P. The sedimentation test and its interpretation. *Vet. Med.* 44: 50. Feb. 1949. 41.8 M69
- Use in veterinary medicine.
- 26842 KOPROWSKI, H., and COX, H. R. Studies on chick embryo adapted rabies virus. I. Culture characteristics and pathogenicity. *J. Immunol.* 60: 533-554. Ref. Dec. 1948. 448.8 J8232
- 26843 KOUTZ, F. R., and REBRASSIER, R. E. Identification and life cycles of parasites affecting domestic animals. Rev. ed. Columbus, Ohio State Univ. Press, 1948. 104 p. 436 R243
- Includes mites, ticks, lice, fleas and internal parasites.
- 26844 LADARIA CALDENTEY, L. Los estrógenos en la veterinaria. *Lérida Ganad.* 3: 168-170. Aug. 1948. 41.8 L56
- 26845 LAFORTUNE, J. G. Le "distemper." *Forêt Québécoise* 14: 38-39. Jan. 1949. 99.8 F79
- Ambiguity of the term. Includes strangles, canine distemper, etc.
- 26846 LOCKART, G. P. La vacunación contra la fiebre aftosa. *Res* 16: 23019-23021. Nov. 20, 1948. 286.85 R31
- 26847 MACALLISTER, D. I. Some features of general practice. *Vet. Rec.* 61: 1-3. Jan. 1, 1949. 41.8 V641
- 26848 MCINTOSH, R. A. Good health all-important. *Canad. Countryman* 37(26): 3, 22-23. Dec. 25, 1948. 7 C833
- In livestock.
- 26849 MAJILTON, E. A. Significance of specific gravity on whole blood and plasma. *Vet. Med.* 44: 52. Feb. 1949. 41.8 M69
- Use as diagnostic test in veterinary medicine.
- 26850 MENDOZA, I. L. Some animal diseases transmissible to man. *Philippine Livestock Mag.* 1: 60-61, 73. Dec. 1947. 49 P53
- 26851 MIEGE, E. Régénérans les êtres vivants: un traitement commun pour l'homme et les animaux. *Inform. Maroc.* (n. s.) 15(344): 1, 3. Aug. 16, 1947. 281.8 In3
- Use of magnesium combined with a vermifuge.
- 26852 MONTANA. LIVESTOCK SANITARY BOARD. STATE VETERINARY SURGEON. Report, 1947-1948. Helena, 1948. 33 p. 41.9 M761
- 26853 MOSS, L. C. Psychoneurosis—a veterinary problem. *Amer. Vet. Med. Assoc. J.* 114(862): 1-2. Ref. Jan. 1949. 41.8 Am3
- 26854 MUIR, W. R. Pasture herbage as a causal factor in animal disease: a review. *Brit. Grassland Soc. J.* 3: 229-247. Ref. Dec. 1948. 60.19 B773
- 26855 OLSEN, O. W. White-tailed deer as a reservoir host of the large American liver fluke [*Fascioloides magna*]. *Vet. Med.* 44(1): 26-30. Ref. Jan. 1949. 41.8 M69
- Infects cattle, sheep and goats.
- 26856 OTTOSEN, H. E., and PLUM, N. A nonantigenic allergic agent for intradermal brucellosis tests. *Amer. J. Vet. Res.* 10(34): 5-11. Jan. 1949. 41.8 Am3A
- 26857 OVEJERO DEL AGUA, S. État sanitaire de l'Espagne en 1948. *Off. Internatl. des Épizoot. B.* 30: 269-272. May 1948. 41.8 Of2
- Livestock diseases.
- 26858 OVEJERO DEL AGUA, S. Inmunidad e inmunización en las infecciones por virus. *Veterinaria* 12: 667-677. Oct. 1948. 41.8 V6429
- 26859 PARKER, R. R., BELL, E. J., and STOENNER, H. G. Q fever—a brief survey of the problem. *Amer. Vet. Med. Assoc. J.* 114: 55-60. (To be cont.) Feb. 1949. 41.8 Am3
- Includes record of affected animals and tick vectors.
- 26860 PARNAS, J., and KAWECKI, Z. From the case histories of W.Z.H.W. (District Veterinary Institute of Hygiene). (In Polish.) *Med. Wet.* 4(11): 691-692. (Concl.) Nov. 1948. 41.8 M463
- English summary.
- 26861 PESSACQ, V. La rabia. *Rev. de Agr. Trop.* [Salvador] 14(25): 53-56. 1947. 8 R326
- 26862 PRESTON S., H. Pasteurellosis (septicemia hemorrágica). *Peru. Dir. de Ganad. e Indus. Pecuarias.* Ganad. 2(6): 72-78. Sept. 1948. 49.9 P433
- 26863 PRÉVOT, A. R. Recherches sur la toxine, l'anatoxine et l'antitoxine de *Cl. botulinum* D. *Acad. Vét. de France. B.* 21: 390-392. Nov. 1948. 41.9 R24
- 26864 PRÉVOT, A. R., and ROSSI, P. Recherches sur trois souches de *Clostridium botulinum* D. *Acad. Vét. de France. B.* 21: 386-389. Nov. 1948. 41.9 R24
- 26865 QUÆDVLIEG. La lutte organisée contre la tuberculose aux Pays-Bas. *Off. Internatl. des Épizoot. B.* 30: 273-275. May 1948. 41.8 Of2
- 26866 QUEVEDO, J. M. Le diagnostic de la brucellose animale dans la pratique. *Off. Internatl. des Épizoot. B.* 30: 33-44. May 1948. 41.8 Of2
- 26867 REYDELLET, M. La vaccination antibrucellose par la méthode Dubois. Que faut-il en penser? Conclusions de dix années de prophylaxie collective dans les Hautes-Alpes. *Rev. de Méd. Vét.* [Toulouse] 99: 541-551. (Concl.) Dec. 1948. 41.8 R32
- 26868 ROCA, H. Distomatosis hepática de los rumiantes. *B. Zootec.* 4: 211-219. July 1, 1948. 41.9 Sol6
- In cattle, sheep and goats of Argentina.
- 26869 RODRIGUEZ LOSTAU, J. A., and TROVATO, O. A. Algunas observaciones sobre vacunación, inmunidad cruzada y sueroneutralización como consecuencia de un brote de rabia aparecido en San Juan. *Rev. de Med. Vet.* [Buenos Aires] 30: 71-85. Ref. Apr./June 1948. 41.8 B86
- 26870 RUNNELLS, R. A. An adventure in anatomy. *Amer. Vet. Med. Assoc. J.* 114: 53-54. Feb. 1949. 41.8 Am3
- Course in veterinary anatomy at Michigan State College.
- 26871 RYAN, T. K. Stock poisoning; field investigations into mortalities in stock. Sydney, Associated Gen. P., 1947. 239 p. 391 R95
- 26872 SALA, G. Microscopic diagnosis of the brucellosis. (In Italian.) *Clin. Vet.* [Milan] 71: 249-251. Aug. 1948. 41.8 C61
- 26873 SCATTERDAY, J. E. The public health veterinarian. *Vet. Med.* 44: 110-112. Mar. 1949. 41.8 M69
- Florida.
- 26874 SCHNELLE, G. B. Is there a double standard in antiseptics? *Amer. Vet. Med. Assoc. J.* 114: 65-67. Feb. 1949. 41.8 Am3



- 26875 SCHOENING, H. W., and CRAWFORD, A. B. Brucellosis animales aux Etats-Unis et méthodes de prophylaxie appliquées. *Off. Internatl. des Epizoot. B.* 30: 74-89. May 1948. 41.8 Of2
- 26876 SECANELL, J. Conclusiones prácticas sobre la aplicación de la inseminación artificial. *Lérida Ganad.* 3: 213-214. Oct. 1948. 41.8 L56
- 26877 SIMMS, B. T. Basic facts about brucellosis. *C. M. P. A. Bul.* 29(353): 2, 6. (To be cont.) Jan. 1949. 44.9 C768
- 26878 SIMMS, B. T. The foot and mouth problem. *Butchers' Advocate* 124(19): 10-12, 25. Nov. 10, 1948. 286.85 B97
- The problem in Mexico.
- 26879 SIMMS, B. T. Recent progress in the control and eradication of Bang's disease. *N. Y. Farmers. Proc.* 1947/48: 119-132. 4 N48P
- Discussion, p. 132-141.
- 26880 SINHA, K. C. Spore latency in anaerobic infections. *Indian Vet. J.* 25: 122-126. Ref. Nov. 1948. 41.8 In2
- Refers chiefly to *Clostridium* spp.
- 26881 SINKS, A. H. Undulant fever—a menace to farm families. *Country Gent.* 119(2): 15, 115, 116. Feb. 1949. 6 C833
- Control of brucellosis with aureomycin.
- 26882 STENIUS, R. Mastitis therapy. (In Finnish.) *Finsk Vet. Tidskr.* 54: 399-407. Nov. 1948. 41.8 F49
- Swedish summary.
- 26883 STURA, C. A., RODRIGUEZ LOUSTAU, J. A., and TROVATO, O. Valor comparativo entre los distintos tipos de vacunas anti-chauvei. *Gac. Vet.* 10: 201-213. Sept./Oct. 1948. 41.8 G112
- Vaccines against *Clostridium fescer*, causal organism of blackleg.
- 26884 TERRAZAS M., I. Brucelosis en el ganado. *Campo [La Paz]* 2(17): 8-9. Sept. 1948. 9.1 C15
- 26885 TREFNY, L. Veterinary medicine in Czechoslovakia after the second World War. (In Polish.) *Przegl. Hodowlany* 16: 370-372. Nov./Dec. 1948. 49 P952
- 26886 UEBELE, G. Handlexikon der tierärztlichen praxis. Ed. 6, ed. by W. Schreyer. Ulm, Ebner, 1947. v. 1, 951 p. 41 Ub3
- 26887 UNGLAS, G. Réactions contradictoires à la tuberculine. *Rev. de Méd. Vét. [Toulouse]* 99: 447-449. Oct. 1948. 41.8 R32
- 26888 U. S. BUR. OF ANIMAL INDUSTRY. Career opportunities for graduate veterinarians in the Bureau of Animal Industry. U. S. D. A. Misc. P. 671, 18 p. Oct. 1948. 1 Ag84M
- 26889 VAITSMAN, J. Pseudorabies. (In Portuguese.) *Rev. dos Criadores* 19(11): 61. Nov. 1948. 43.8 R32
- 26890 VAN.HOUWELING, C. D. The Bang's puzzle. *Ill. Agr. Assoc. Rec.* 26(12): 5. Dec. 1948. 6 IL62
- Control program.
- 26891 VAYASSE, J. Les brucelloses au Maroc. *Off. Internatl. des Epizoot. B.* 30: 90-95. May 1948. 41.8 Of2
- 26892 VELÁSQUEZ Q., J. Enfermedades de las alturas. *Rev. Gracolumb. de Zootec. Hig. y Med. Vet.* 2: 285-313. Ref. Apr./June 1948. 41.8 R3253
- 26893 VIDAL MUNNÉ, J. Divagaciones sobre la lucha antirrábica. *Veterinaria* 12: 829-838. Dec. 1948. 41.8 V6429
- Spain.
- 26894 WHITEHOUSE, F. Animal husbandry genesis of veterinary science. *Country Life [Sydney]* 60(24, Ed. sup.): 12. Dec. 10, 1948. 286.85 Sy2
- 26895 WRIGHT, J. T., and HABEL, K. A comparison of antigenicity and certain biological characteristics of 6 substrains of Pasteur fixed rabies virus. *J. Immunol.* 60: 503-515. Ref. Dec. 1948. 448.8 J8232
- 26896 ZAKI, O. A. Recent developments in immunity, more particularly from the standpoint of veterinary medicine, and with especial reference to Egyptian conditions. *Vet. J.* 104: 340-353, 395-413. Oct., Dec. 1948. 41.8 V643
- 26898 BASSFORD, F. Purebred auctions [of better livestock] spread the gospel. *West. Livestock J.* 27(6): 41, 88. Dec. 15, 1948. 6 F2278
- 26899 BIERENS DE HAAN, J. A. Instinct en intelligentie bij de dieren [Instinct and intelligence in animals]. Ed. 2. Gorinchem, 1947. 176 p. (Noorduijn's Wetenschappelijke, reeks 22) 411 B473
- 26900 BLANK, L. Tierpflege im winter. *Landw. Wechnbl.* 138: 414. Dec. 4, 1948. 18 L2338
- 26901 BLUM, J. Die viehhaltung im Glarnerland. *Grüne* 76: 1213-1214. Nov. 12, 1948. 17 Sch9
- 26902 BUÑAG, J. J. The role of livestock in the farm. *Philippine Livestock Mag.* 1: 46-48. Dec. 1947. 49 P53
- 26903 CARROLL, W. E. A view of French livestock. *Cattleman* 35(9): 79-80, 82. Feb. 1949. 49 C29
- 26904 COBOS DE ARCOS, J. La ganadería en lo religioso. Paganismo y catolicismo. *Ganadería [Madrid]* 6: 374-375. July 1948. 49 G15
- 26905 COFFEY, W. C. The little creator, no less — that's what a sound animal husbandman is today as he stocks the larder of the world. *Breeder's Gaz.* 114(2): 18. Feb. 1949. 49 B74
- 26906 ENEQUIST, N. On livestock health in Norrbotten Province. (In Swedish.) *Skand. Kreatursförsäkringsbolaget. Månadsblad* 26: 115-116. Nov. 1948. 49.9 Sk1
- 26907 FABBROVICH, F. Jewish ritual slaughtering and zoophilia. (In Italian.) *Clin. Vet. [Milan]* 71: 217-226. July 1948. 41.8 C61
- 26908 FALES, E. D., and MANNING, J. The neurotic animals of Ithaca, N. Y. *Sci. Illus.* 4(2): 26-29, 80. Feb. 1949. 470 Sci292
- Research in animal psychology and behavior.
- 26909 FERRIOLS, V. Important post-liberation accomplishments of the Bureau of Animal Industry. *Philippine Livestock Mag.* 1: 170-171. Sept. 1948. 49 P53
- Also in *Agr.-Com.-Indus. Life* 10(10): 14. Oct. 1948. 25 Ag8
- 26910 GARCÍA CARRASCO, N. La Estación Pecuaria Regional de Badajoz. *B. de Divulg. Ganad. [Valladolid]* 5(19): 40-52. Sept. 1948. 49.9 Sp12
- 26911 GAY, C. W. About dispersal sales; at least the tops or the selects of the herd should go together for greatest breeding efficiency. *Shorthorn World* 33(19): 8-9, 17-18. Jan. 10, 1949. 43.8 Sh8
- 26912 GERSTNER, R. Rationelle aufzucht der jungtiere. *Salzburg. Bauer* 4(2): 1-2; (3): 3-4. (Cont.) Jan. 13-20, 1949. 19 Sa3
- 26913 GODOY, J. C. Glosas históricas sobre los camélidos andinos. *Campo y Suelo Argentino* 32(385): 64-65, 67. Nov. 1948. 9 C15
- 26914 GÓMEZ AYAU, E. El ganado y la pequeña explotación. *Ganadería [Madrid]* 6: 405-408. Aug. 1948. 49 G15
- 26915 GRAND, E. F. Predator program summary. *Mont. Wool Grower* 23(1): 30. Jan. 1949. 45.8 M762
- 26916 HAUSAM, W. Die kennzeichnung des schlachtviehs; ergebnisse und erfahrungen mit neuartigen farblösungen. *Stuttgart, Wissenschaftliche Verlagsgesellschaft*, 1948. 56 p. 40 H29
- 26917 HOGNER, D. C. Barnyard family. *New York, Oxford U. Press*, 1948. 70 p. 40 H674B
- 26918 LANUS, A. J. La ganadería alemana en la Exposición del Centenario del año 1810. *Res* 17: 23206-23207. Jan. 5, 1949. 286.85 R31
- 26919 LISKUN, E. F., ed. Zhivotnovodstvo v gorodakh i rabochikh poselkakh [Animal raising in cities and workers' settlements]. Moskva, Moskovskiy Rabochiy, 1948. 234 p. 40 L68Z
- 26920 LIUTIKOV, K. M. Brief account of the research in animal industry carried on in 1944 at the Vsesoyuznyy Nauchno-Issledovatel'skiy Institut Zhivotnovodstva. (In Russian.) *Vsesoyuzn. Nauch. Issled. Inst. Zhivotn. Trudy* 15: 6-24. 1947. 49.9 R92
- 26921 LOSKY, R. F. Por qué fracasa la cría de los animales; errores que más frecuentemente se cometen. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 2(6): 50-52. Sept. 1948. 49.9 P433
- 26922 MCKALL, K. Australian stock-banding; keeping a check on the ownership of herds. *Field* 193: 15-16. Jan. 1, 1949. 10 F45

## MISCELLANEOUS

- 26897 ARÁN, S. El arte de fotografiar animales. *Ganadería [Madrid]* 6: 424-426. Aug. 1948. 49 G15



## CATTLE

## Breeds and Breeding

- 26923 MALARSKI, H. The first period of twenty years' activity of the Department of Animal Husbandry of the National Agricultural Institute in Pulawy. (In Polish.) *Przegl. Hodowlany* 16: 265-273. Sept. 1948. 49 P952
- 26924 MIDTLID, S. Historical review of livestock exhibitions. (In Norwegian.) *Tidsskr. for det Norske Landbr.* 1948: 241-250. Sept./Oct. 1948. 11 T433
- 26925 MORRIS, W. E., and ZAVORAL, H. G. Live-stock weights from measurements. *Minn. U. Agr. Ext. Folder* 70, rev., 6 p. June 1948. 275.29 M66Ex
- 26926 ONTARIO AGRICULTURAL COLLEGE. DEPT. OF ANIMAL HUSBANDRY. Hints on judging live stock and bacon hog carcasses. Ontario. Dept. Agr. B. 460, 107 p. Jan. 1949. 101 On8B
- 26927 PARKER, A. Beasts of burden. *New Biol.* 3: 149-170. 1947. 442.8 J63
- 26928 PENABAD FRAGA, M. Otro gran certamen nacional. *Tierra Libre* 13(2): 8. Feb. 1949. 8 T443 Cuban livestock show.
- 26929 POZZI, C. M. Un problema de gran importancia: los mataderos públicos. Buenos Aires. *Dir. Med. Vet. B.* 5(23/26): 4-8. 1948. 41.9 B865
- 26930 PRAWOCHEŃSKI, R. Achievements of animal husbandry in U. S. S. R. (In Polish.) *Przegl. Hodowlany* 16: 297-299. Oct. 1948. 49 P952
- 26931 ROMOLOTTI, A. Photography of domestic animals. (In Italian.) *Ital. Agr.* 85: 717-728. Dec. 1948. 16 It1
- 26932 ROYAL ULSTER AGRICULTURAL SOCIETY. Annual show, 81st, 1948. 1948. various paging. 10 R816A Livestock.
- 26933 SEVILLA, N. S. Observation on U. S. livestock practices. *Philippine Livestock Mag.* 1: 153-155, 164, 180. Sept. 1948. 49 P53
- 26934 SIMMS, B. T. Activities of the Bureau of Animal Industry. *Vet. Student* 11(1): 26-30. Winter 1949. 41.8 V6425
- 26935 SOLDEVILA, C. The animals of the fabulist, of the naturalist and of the Franciscan. *Nuestros Amigos* 5(55): 24-26. Dec. 1948. 48.8 N88 English and Spanish texts.
- 26936 STAFFE, A. *Haustier und umwelt.* Bern, Haupt, 1948. 215 p. 40 St13H
- 26937 STEELE, J. A. Ideas for a livestock recording system in Canada. *Shorthorn News* 9(4): 14-16. Dec. 1948. 43.8 Sh85
- 26938 STEWART, W. A. El entrenamiento de los jurados de animales en la Gran Bretaña. *Aberdeen-Angus [Buenos Aires]* 1948(40): 111-112. Spring 1948. 43.8 Ab33
- 26939 TANGANYIKA TERRITORY. DEPT OF VETERINARY SCIENCE AND ANIMAL HUSBANDRY. Annual report, 1946. Dar es Salaam, 1948. 17 p. 41.9 T15
- 26940 THÉVENOT, R. Les abattoirs municipaux en Suisse. *Génie Rural* 41: 321-322. Nov. 1948. 58.8 Au8
- 26941 TOLEDO LAZO, A., and SAN MARTÍN, M. Alpacas y vicuñas y su plan de mejoramiento. *Lanares y Lanos* 3(12): 19. (Cont.) July/Sept. 1948. 45.8 L22
- 26942 TOLSON, P. More meat from the hills. *Country Life [London]* 105: 196-197. Jan. 28, 1949. 80 C83
- 26943 U. S. BUR. OF ANIMAL INDUSTRY. Report, 1947/48. Washington, 1948. 104 p. 1 Ag84; also 1 An5A
- 26944 VELÁZQUEZ CAPOTE, A. Evolución de nuestra pecuaria. IV. *Agr. Venezol.* 13(130): 15-16. Apr./June 1948. 9.95 Ag8
- 26945 VIDAL FERNÁNDEZ, B. Los animales y su aclimatación. *Ceres [Valladolid]* 12(149): 9-10. Nov. 1, 1948. 15 C33
- 26946 VSESOIŪZNYĖ NAUCHNO-ISSLEDOVATEL'SKIĖ INSTITUT ŽIVOTNOVODSTVA. Trudy. Moskva, Sel'khozgiz, 1947. v. 15, 190 p. 49.9 R92
- 26947 WHITLOCK, R. An all white farm; Poll cattle [Park (White)], Percherons, poultry—and even a donkey. *Field* 193: 41. Jan. 8, 1949. 10 F45
- 26948 ZHIGUNOV, P. S., and TEREŖT'EV, F. A., eds. Severnoe olenovodstvo [Northern reindeer husbandry]. Moskva, Sel'khozgiz, 1948. 366 p. 412.7 Z6
- 26949 ABBOTT, H. G. A date with destiny. *Milking Shorthorn J.* 30(2): 3-4. Feb. 1949. 43.8 M59 Progress of Milking Shorthorns.
- 26950 ABERDEEN-ANGUS CATTLE SOCIETY. The Aberdeen-Angus herd book, containing the pedigrees of Aberdeen-Angus cattle. Aberdeen, Scotland, 1948. v. 72, 536 p. 43.9 P76
- 26951 ALLEN, E. Why breed Milking Shorthorns? *Milking Shorthorn J.* 30(2): 16. Feb. 1949. 43.8 M59
- 26952 ASDELL, S. A. Hormones and the treatment of sterility in dairy cattle: a review. *J. Dairy Sci.* 32: 45-59. Ref. Jan. 1949. 44.8 J822
- 26953 ASDELL, S. A. Nutrition and the treatment of sterility in dairy cattle: a review. *J. Dairy Sci.* 32: 60-70. Ref. Jan. 1949. 44.8 J822
- 26954 ASH, B. E., and ERB, R. E. Factors influencing the methods of bovine semen evaluation. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 76-81. 44.9 Am342
- 26955 ASHTON, J. Breed type, what does it mean? *Shorthorn World* 33(20): 28-29. Jan. 25, 1949. 43.8 Sh8 Judging cattle.
- 26956 ASSIS, F. DE P. The representation of dairy cattle breeds at the 15th National Livestock Show. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(337): 56-57. Oct. 1948. 9.2 B733
- 26957 BALDUCCI, A. The Calvana breed [of cattle] and its improvement. (In Italian.) *Terra [Firenze]* 59 (45): 1. Nov. 7, 1948. 16 T274
- 26958 BARTLETT, D. E. Infectious disease as a cause of infertility: a review. *J. Dairy Sci.* 32: 36-44. Ref. Jan. 1949. 44.8 J822
- 26959 BARTON, W. M. This business of breeding pure breeds. *Aberdeen-Angus J.* 30(6): 47, 83. Jan. 1949. 43.8 Ab3
- 26960 BECKETT, J. Brahma crossbreeds no threat to Cornbelt feeders. *Iowa Agriculturist* 47(5): 16. Dec. 1948. 6 Io9
- 26961 BEISEL, M. E. Food for thought. *Milking Shorthorn J.* 30(1): 14, 16, 18-19. Jan. 1949. 43.8 M59 Cattle breeding.
- 26962 BERGE, S. Dun colour in west coast cattle in Norway. (In Norwegian.) *Tidsskr. for det Norske Landbr.* 1948: 219-240. Ref. Sept./Oct. 1948. 11 T433 English summary.
- 26963 BERNARD, E. Sans empiéter sur nos surfaces cultivées nous pouvons augmenter nos productions de viande et de lait. *J. de la France Agr.* 4: 899-900. Dec. 3/9, 1948. 14 J829 Through breed improvement.
- 26964 BETTINI, T. M. The rump angle of the Chianina breed of the Chiana Valley. (In Italian.) *Ital. Agr.* 85: 711-716. Dec. 1948. 16 It1
- 26965 BOULAIS, F. La Société Ayrshire du Québec hier et aujourd'hui. *B. des Agr.* 45(1): 12-13. Jan. 1949. 7 B872
- 26966 BRATTON, R. W., and others. Breeding behavior, spermatogenesis, and semen production of mature dairy bulls fed rations low in carotene. *J. Dairy Sci.* 31: 779-791. Ref. Sept. 1948. 44.8 J822 G. W. Salisbury, T. Tanabe, C. Branton, E. Mercier, and J. K. Loosli, joint authors.
- 26967 BRAUTIGAM, C. H. Twins. *Milking Shorthorn J.* 30(2): 51. Feb. 1949. 43.8 M59
- 26968 BURROWS, G. How Britishers grade-up. *Breeder's Gaz.* 114(2): 16, 39. Feb. 1949. 49 B74 Shorthorn cattle.
- 26969 CONSOLINI, A. For the selective improvement of the Brown Swiss breed. (In Italian.) *B. dell'Agr.* 82(25): 1. Dec. 24, 1948. 16 B87
- 26970 COOK, W. 18 years of inbreeding; here is the story of Iowa State's closed Holstein herd. *Iowa Agriculturist* 47(5): 11. Dec. 1948. 6 Io9
- 26971 COPELAND, L. Classification data on the "breakdown" system. *Jersey B.* 68: 98, 124, 126, 128. Jan. 25, 1949. 43.8 J48
- 26972 CRAM, B. La race bovine hollandaise: Pie Noire. *Unité Paysanne* 3(165): 2. Jan. 1, 1949. 14 Un3
- 26973 CRAM, J. S. More calves—less trouble. *Macdonald Col. J.* 9(4): 6, 8. Dec. 1948. 101 M144 Cattle breeding including artificial insemination.



- 26974 CUMING, C. A. United they stand-divided they fall; [dairy breed] type ensures bodily framework essential to production. *New Zeal Dairy Exptr.* 24(7): 11-13. Jan. 1949. 44.8 N484
- 26975 CUMMINGS, R. J. Shorthorns in the West. *Rec. Stockman, Ann. Ed.* 59(52): 193, 194. Dec. 23, 1948. 49 D43
- 26976 DARLOW, A. E. What is a good Hereford? *Country Gent.* 119(2): 24-25, 86, 88. Feb. 1949. 6 C833
- Basic characteristics of good beef cattle.
- 26977 DE LANGE, M. The influence of delayed breeding on the fertility of beef heifers. (Abs.) *So. African Sci.* 2: 114. Dec. 1948. 475 S08
- 26978 DIXON, W. E. Are we doing half as well breeding cattle as we know how? *Milking Shorthorn J.* 30(1): 24, 26. Jan. 1949. 43.8 M59
- 26979 DUCKWORTH, J., and RATTRAY, G. B. The three-quarter-bred Holstein-Zebu heifer. II. *Empire J. Expt. Agr.* 16: 207-220. Oct. 1948. 10 Em7
- 26980 DURNO, J. W. Are we breeding the size out of our Shorthorns? *Shorthorn News* 9(4): 19. Dec. 1948. 43.8 Sh85
- Canada.
- 26981 ECHEVERRIA M., A. Las razas lecheras. *Rev. de Agr. Trop. [Salvador]* 14(25): 21-33. 1947. 8 R326
- 26982 EDWARDS, J. Improvement of British cattle. VIII. Cattle breeding and artificial insemination. *Farming [Norwich]* 3: 7-10. Jan. 1949. 10 F2236
- 26983 ERB, R. E., and SHAW, A. O. Breeding failure survey in Washington. (Sum.) *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 40-51. 44.9 Am342
- Dairy cattle.
- 26984 ESTEBAN, J. D. Influencia del toro en la selección lechera. *Ganadería [Madrid]* 6: 517-519. Oct. 1948. 49 G15
- 26985 FAULKNER, D. E. The improvement of the native cattle of Kenya. *Vet. Rec.* 61: 47-52. Jan. 29, 1949. 41.8 V641
- 26986 FJELKNER, P. A. Way of paying for milk should be changed; Swedish Lowland breeding 1948. (In Swedish.) *Lantmannen* 33: 20-22. Jan. 8, 1949. 11 L234
- 26987 FOOTE, R. H., and SALISBURY, G. W. The effect of pyridium, penicillin, furacin, and phenoxethol upon the livability of spermatozoa and upon the control of bacteria in diluted bull semen. *J. Dairy Sci.* 31: 763-768. Ref. Sept. 1948. 44.8 J822
- 26988 FOOTE, R. H., and SALISBURY, G. W. The effect of sulfonamides upon the livability of spermatozoa and upon the control of bacteria in diluted bull semen. *J. Dairy Sci.* 31: 769-778. Ref. Sept. 1948. 44.8 J822
- 26989 FORMIGONI, L. Cattle in poor valleys and on poor farms. (In Italian.) *Campagna* 47: 329-332. Dec. 15, 1948. 16 C152
- Cattle types.
- 26990 FORT, D. L., and ROSS, R. H. Results of the proved sire program in the Holstein herd at the University of Idaho. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 58-61. 44.9 Am342
- 26991 FRASER, A. La genética relacionada con la nutrición (con referencia especial a la raza Aberdeen-Angus). *Aberdeen-Angus [Buenos Aires]* 1948(40): 33, 35-36, 38, 40, 42. Spring 1948. 43.8 Ab33
- 26992 FREDERIKSEN, A. M. Red Danish milk cattle, Karlby Eske. (In Danish.) *Dansk Landbr.* 67: 339-340, 409-410. Sept. 9, Oct. 28, 1948. 280.28 C91
- 26993 FRIESCH rundvee-stamboek [Friesian cattle herd book] 1946. (In Dutch.) *Leeuwarden, Miedema*, 1948. v. 109, 908 p. 43.9 F91
- 26994 GILMORE, L. O. The inheritance of functional causes of reproductive inefficiency: a review. *J. Dairy Sci.* 32: 71-91. Ref. Jan. 1949. 44.8 J822
- 26995 GORDON, G. E. What does it cost to keep a bull? Is he an expense or an investment? *Guernsey Breeders' J.* 75(1): 9-12, 34. Jan. 1, 1949. 43.8 G93
- 26996 GRACEY, R. E. Facts-plans-suggestions. *Milking Shorthorn J.* 30(1): 5, 8. Jan. 1949. 43.8 M59
- 26997 GREGG, M. Size and type mean profit or loss. *Rec. Stockman, Ann. Ed.* 59(52): 226-227. Dec. 23, 1948. Research in beef cattle breeding.
- 26998 GREVE S., G. Especialización y doble propósito. *Agr. Austral* 14: 7431-7434. Oct. 1948. 9.3 Ag842
- Cattle.
- 26999 GRIMPRET, J. Les vaches laitières au Maroc. *Colon Franç. de Tunisie* 58(2079): 1, 4. Dec. 25, 1948. 24 C712
- Breeds.
- 27000 GUARD, S. R. Pretty is that pretty does. *Breeder's Gaz.* 114(2): 7, 28. Feb. 1949. 49 B74
- Cattle breeding.
- 27001 HERMAN, H. A., and MADDEN, F. W. The artificial insemination of dairy cattle; a handbook and laboratory manual. Columbia, Mo., Lucas, 1947. 95 p. 43 H42
- 27002 HERMSDORFF, G. E. The Breton race of cattle. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(337): 36, 38, 40-42. Oct. 1948. 9.2 B733
- 27003 HOLSTEIN-FRIESIAN ASSOCIATION OF CANADA. Holstein-Friesian herd book, containing a record of all Holstein-Friesian cattle approved and admitted for registry during the year 1947. v. 52. n. p., 1948. 1929 p. 43.9 H743
- 27004 HOWIE, J. The Ayrshire cow. *Ayrshire Cattle Soc. J.* 26: 222-224. Jan. 1949. 43.8 Ay74
- 27005 HUBER L., G. El bufalo de agua de la India (Bos bubalus). *Rev. Ganad. [Habana]* 9(1): 26. Jan. 1949. 49 R321
- 27006 IDVALL, S. Progeny tested bulls in north Kalmar province. (In Swedish.) *Kalmar Läns Norra Hushållningssällsk. Kvrtlsskr.* 8: 123-126. 1948. 11 K12
- 27007 JACOBS, W. S. History of Brahman importations. *Amer. Brahman J.* 3(11): 15-17, 38. Feb. 1949. 43.8 Am33
- 27008 JACOBS, W. S. Impressions of imported bulls. *Brahman Breeder-Feeder* 15(2): 29-30. Feb. 1949. 43.8 B73
- 27009 JAMES, J. P., and SOUTHCORBE, S. A. Production records of artificially-bred heifers. *New Zeal. J. Agr.* 77: 363, 365-366. Oct. 1948. 23 N48J
- 27010 JOHNSTON, F. Looking into the Jersey future. *Jersey B.* 68: 90-91, 131-133. Jan. 25, 1949. 43.8 J48
- 27011 JORDAO, L. P. The national [cattle] breeds, Caracu and Mocha at the 15th National Livestock Show. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(337): 48. Oct. 1948. 9.2 B733
- 27012 JUNQUEIRA, A. M. Crossing the breeds and milk production. (In Portuguese.) *Rev. dos Criadores* 19(12): 56-57. Dec. 1948. 43.8 R32
- 27013 KAYS, D. Selecting a herd sire. You do not need to have show cows to raise show calves if the cows are mated to real stock bulls. *Shorthorn World* 33(20): 14, 16-17. Jan. 25, 1949. 43.8 Sh8
- 27014 KEARL, B. El ácido ascórbico es un elemento eficaz para combatir la esterilidad. *Hereford* 15(96): 30. Jan. 1949. 43.8 H42
- 27015 KEITH, A. La raza Aberdeen-Angus en el pasado y en 1948. *Aberdeen-Angus [Buenos Aires]* 1948(40): 26-29. Spring 1948. 43.8 Ab33
- 27016 KENNEDY, C. The making of a champion. *Aberdeen-Angus J.* 30(6): 50-51, 82-83. Jan. 1949. 43.8 Ab3
- 27017 KIDSON, A. L. British plan to produce more beef; artificial insemination helps to improve meat standard. *Farmer's Weekly [Bloemfontein]* 76: 103. Dec. 8, 1948. 24 F225
- 27018 KYGER, F. A. Tell the world about Shorthorns. *Shorthorn World* 33(19): 10, 19-22. Jan. 10, 1949. 43.8 Sh8
- 27019 LANGEN, V. Hilfsmittel zur leistungszucht des milchviehes. Hannover, Landbuch-verlag, 1947. 63 p. 44 L263
- 27020 LANGEN, V. Der stalldurchschnitt als hilfsmittel bei der zuchtwahl. *Neue Mitt. f. die Landw.* 3: 463-464. Dec. 15, 1948. 18 N39
- Cattle.
- 27021 LEMEUNIER. Les éleveurs de la race bovine Armoricaïne s'orientent vers la viande et le lait. *J. de la France Agr.* 4: 973. Nov. 12/18, 1948. 14 J829
- 27022 LERENA, G. Las reses bravas; relación zootécnica de nuestro ganado indígena con las castas de lidia. *Chacra* 19(218): 22, 109. Dec. 1948. 9 C34
- Camargue cattle in Argentina.
- 27023 LERNER, E. Österreichs rinderrassen. *Österr. Milch- u. Fettwirtschaft* 3: 225-227. (To be cont.) Oct. 1948. 44.8 Os72
- 27024 LETTIERI, E. Esterilidad de las vacas. *Campo y Suelo Argentino* 32(385): 4-6, 42. Nov. 1948. 9 C15



27025 LÖRTSCHER, H. Die schweizerische milchkuh. In Switzerland. Schweizerische Milchkommission. Die schweizerische Milchwirtschaft, p. 105-148. Thun, 1948. 44 Sw62

27026 LUTES, W. T. Angus at home on the range. Rec. Stockman, Ann. Ed. 59(52): 152, 155, 157. Dec. 23, 1948. 49 D43

27027 MCCARTHY, R. J. Let's prove more sires. Milking Shorthorn J. 30(1): 84-85. Jan. 1949. 43.8 M59

27028 MADSEN, L. L. Utah College working on better beef. West. Live Stock 34(6): 30. Jan. 1949. 49 W523

27029 MARKS, M. Brahman figure big in U. S. good-will policy. Brahman Breeder-Feeder 15(2): 41. Feb. 1949. 43.8 B73

27030 MARTIN, R. G. No substitute for quality. Amer. Brahman J. 3(11): 29, 37. Feb. 1949. 43.8 Am33 Brahman beef cattle.

27031 MARTIN, R. G. PAZA history reflects improvement. Brahman Breeder-Feeder 15(2): 32, 34, 36. Feb. 1949. 43.8 B73

Pan American Zebu Association.

27032 MARTIN, W. W. Portales, butter tub of New Mexico. West. Farm Life 50(21): 5, 12. Nov. 1, 1948. 6 R153

Jersey cattle in Roosevelt County.

27033 MERCURI, S. The draft and meat cattle breeds. (In Italian.) Risveglio Agr. 7: 349-350. Oct. 15/31, 1948. 16 R49

27034 MOORHOUSE, S. El ganado salvaje en la Gran Bretaña. Nuestros Amigos 5(53): 14-17. Oct. 1948. 48.8 N88

Chillingham Park herd of cattle.

27035 OAKLEY, J. E. Your society deserves your allegiance. Milking Shorthorn J. 30(1): 12-13. Jan. 1949. 43.8 M59

American Milking Shorthorn Society.

27036 OBANDO R., J. Zebu lechero. Rev. Nac. de Agr. [Bogotá] 42(515): 18. Mar. 1948. 9.4 R32

27037 PACHECO GARMENDIA, H. El Cebú y la explotación ganadera en la Montaña. Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad. 2(6): 18-23. Sept. 1948. 49.9 P433

27038 PERRY, E. J. Difficult breeding; the individual cow problem is more prevalent than the herd problem. Guernsey Breeders' J. 75: 339-340, 371. Feb. 1, 1949. 43.8 G93

Dairy cattle.

27039 POWELL, S. M. Herd bull is key to success or failure. Milking Shorthorn J. 30(2): 8. Feb. 1949. 43.8 M59

Genetic value.

27040 REESER, M. M. Milking Shorthorn breeder's prayer—harmony and promotion. Milking Shorthorn J. 30(1): 4. Jan. 1949. 43.8 M59

27041 RUNEFORS, O. Report of the activities of the bull associations during the year 1947. (In Swedish.) Jönköpings Läns Hushållningssällsk. Handl. och Tidskr. 1948: 46-48. 11 J732

27042 RYDE, H. The practical execution of the keeping of herd books. (In Swedish.) Ladugården 1948: 280-285. Dec. 1948. 44.8 L12

Cattle.

27043 SANDHOUSE, H. A. Raise heifer [dairy] calves for herd replacements. Guernsey Breeders' J. 75: 354. Feb. 1, 1949. 43.8 G93

27044 SCHAEFER, W. F., JR. Handling bulls for artificial breeding. Hoard's Dairyman 94(1): 16-17. Jan. 10, 1949. 44.8 H65

27045 SCHOLL, M. Do you understand pedigrees. Hoard's Dairyman 94(3): 138-139. Feb. 10, 1949. 44.8 H65

27046 SCRUGGS, C. G. Bigger profits from dairying. 1. Better cows. Prog. Farmer, Tex. Ed. 64: 14, 87. Jan. 1949. 6 T311

27047 SHORTHORN SOCIETY OF THE UNITED KINGDOM OF GREAT BRITAIN AND IRELAND. Dairy Shorthorn year book for 1945. London, 1948. 664 p. 43.9 D14

27048 SHUMATE, H. A. Purebred Holstein breeding. Utah Farmer 68(5): 29, 30. Oct. 10, 1948. 6 D45

27049 SINCLAIR, F. H. Hoot Mon! West. Live Stock 34(5): 27, 139. Dec. 1948. 49 W523

Highland beef cattle of Scotland.

27050 SIRRI, A. Outlook for the diffusion of the Romagna breed of cattle. (In Italian.) Bologna Agr. 1 (48): 1-2. Dec. 18, 1948. 16 B634

27051 SIXTENSSEN, S. Progeny judging a problem of greatest importance; Swedish Red and White cattle during the year 1948. (In Swedish.) Lantmannen 33: 6-8. Jan. 1, 1949. 11 L234

27052 SMIGEL, J. Grass and Milking Shorthorns. Milking Shorthorn J. 30(1): 28. Jan. 1949. 43.8 M59

27053 SMITH, S. K. Breed, feed, test, and classify. Milking Shorthorn J. 30(2): 12. Feb. 1949. 43.8 M59

27054 SNYDER, H. Worst killer on the farm. Hoard's Dairyman 94: 65. Jan. 25, 1949. 44.8 H65

The dairy bull.

27055 STEVENS, G. P. The dairy cow in Utah; Jerseys were first dairy breed in the State; Andersons at Richmond, pioneers, cited for efficiency. Utah Farmer 68(5): 26-27. Oct. 10, 1948. 6 D45

27056 STICHTING TOT BEVORDERING VAN DE UITVOER VAN STAMBOEKVEE. More than half a century of pedigree cattle breeding in the Netherlands. The Hague, 1948? 35 p. 43 St52

27057 SYKES, J. F. Methods of approaching the problem of infertility. J. Dairy Sci. 32: 92-95. Jan. 1949. 44.8 J822

27058 TABOR, G. E. Surveying the progress of the breed. Brahman Breeder-Feeder 15(2): 6-7. Feb. 1949. 43.8 B73

27059 TAGLE, E. C., and GARCÍA MATA, E. Razas de carne y doble propósito. Argentina. Dir. de Inform. P. Misc. 269, 29 p. 1948. 9 P943

27060 TAYLOR, B. R. Keep making them better. Rec. Stockman, Ann. Ed. 59(52): 205, 207, 208. Dec. 23, 1948. 49 D43

Breeding of Herefords.

27061 TOMSON, C. K. Many Shorthorns purchased for Northwest herds at 1948 International. 4,418 head transferred in 7 NW States in past fiscal year. West. Livestock Rptr. 9(20): 6. Jan. 5, 1949. 286.85 W523

27062 TOMSON, C. K. The oldest breed [Shorthorn] comes back. Rec. Stockman, Ann. Ed. 59(52): 196, 197, 199. Dec. 23, 1948. 49 D43

27063 TRETSVEN, J. O. Artificial breeding progress; practice improves Montana dairy herds. Mont. Farmer-Stockman 36(9): 19. Jan. 1, 1949. 6 M764

27064 VAITSMAN, J. How to raise a champion bull. (In Portuguese.) Lav. Arroz. 2(22): 25-26. Oct. 1948. 59.8 L39

27065 VAN WYK, H. P. D., and VERBEEK, W. A. Cattle breeding on intensive irrigation schemes. Farming So. Africa 23: 689-696. Oct. 1948. 24 So842

27066 VAUGHAN, W. J. Useful hints for beginners. Milking Shorthorn J. 30(1): 57-58. Jan. 1949. 43.8 M59

27067 VILLARES, J. B., and AGREU, J. C. Contribution to the study of the gestation period of Gir, Nelore, Indubrasil and Guzerat breeds. (In Portuguese.) Rev. dos Criadores 19(11): 49-51. Nov. 1948. 43.8 R32

27068 VILLARES, J. B. Zebu breeds at the 15th National Livestock Show. (In Portuguese.) Soc. Rur. Bras. Rev. 28(337): 44-47. Oct. 1948. 9.2 B733

27069 VSIÁKIKH, A. S. Methods of breeding in a crossbred herd. (In Russian.) Vsesoiuzn. Nauch. Issled. Inst. Zhivotn. Trudy 15: 98-112. 1947. 49.9 R92

Improvement of Kirghizian cattle.

27070 VSIÁKIKH, A. S. Vyrashchivanie i ispol'zovanie plemennykh bykov [Raising and use of pedigreed bulls]. Moskva, Sel'khozgiz, 1948. 93 p. 43 V96V

27071 WACHTER, R. Die unfruchtbarkeit beim rind und ihre bekämpfung. Württemb. Wchnbl. f. Landw., 116: 19-20. Jan. 8, 1949. 18 W96

27072 WALTON, A. Physiology of dairy cattle. III-IV. Home Farmer 15(12): 22-23; 16(1): 12-13. Dec. 1948-Jan. 1949. 280.344 H75

III. Reproduction - the bull. IV. Reproduction - the cow.

27073 WATSON, J. A. S. British breeds of cattle. Brit. Agr. B. 1: 65-72. Summer 1948. 10 B776

27074 WELKER, R. M. Tips on [artificial] breeding. Hoard's Dairyman 94: 75. Jan. 25, 1949. 44.8 H65

27075 WHITCOMB, G. Observations on Brahman cattle. Amer. Brahman J. 3(11): 23. Feb. 1949. 43.8 Am33



- 27076 WHITTINGTON, K. Case notes on testosterone therapy. *Jen-Sal J.* 32: 16. Jan./Feb. 1949. 41.8 J45  
Bull and dogs treated for reproductive disorders.
- 27077 WILKINSON, J. F. Why artificial insemination... *Hoard's Dairyman* 94: 177. Feb. 25, 1949. 44.8 H65
- 27078 WILLIAM ROCKHILL NELSON TRUST. Twenty years at Sni-a-Bar Farms. n. p. 1948. 46 p. 43 W672  
Cattle breeding.
- 27079 WILSON, F. S. Bull indexing for beef. *Breeder's Gaz.* 114(3): 18-19. Mar. 1949. 49 B74
- 27080 WINGE, Ø. Progeny testing with bulls. (In Danish.) *Dansk Landbr.* 68: 23. Jan. 13, 1949. 280.28 V91  
Dairy bulls.
- 27081 WINTERS, L. M. Improvement of British cattle. VII. Successful methods of livestock improvement in U.S.A. *Farming [Norwich]* 2: 371-375. Dec. 1948. 10 F2236  
Breeding.

#### Feeds and Feeding

- 27082 ARNOULD, C. Sachez alimenter rationnellement vos vaches à l'étable. *Acclimatation* 75: 264. Dec. 11, 1948. 14 Ac2
- 27083 BENDER, C. B. Green gold! The importance of good pasture and good roughage in a healthy dairy program. *New England Farm Finance News* 4(1): 1. Jan. 1949. 284.28 N44
- 27084 BENTLEY, F. L., and BURGE, C. A. Buying and feeding cattle. *Pa. State Col. Agr. Ext. C.* 321, 12 p. Nov. 1948. 275.29 P38C
- 27085 BREWER, C. S. Economical calf-rearing described by farmer. *Primary Prod. [Sydney]* 25(45): 10. Nov. 19, 1948. 23 P93  
Feeding.
- 27086 CASTANEDA RACHITOFF, A. Influencia de la alimentación en la producción de leche. *Agronomía [Lima]* 3(55): 57-65. 1948. 9.8 Ag83
- 27087 COLE, H. H., and KLEIBER, M. Studies on ruminal gas formation and on consumption of alfalfa pasture by cattle. *J. Dairy Sci.* 31: 1016-1023. Dec. 1948. 44.8 J822
- 27088 CUNNINGHAM, I. J. Copper deficiency in cattle and sheep on peat lands. *New Zeal. Dept. Agr. Anim. Res. Div. P.* 31: 381-396. Ref. 1947. 49.9 N482P
- 27089 DAVIS, G. K. Copper deficiency in relation to calf development. *Victory Farm Forum* 33: 4-5. Dec. 1948. 281.8 F226
- 27090 DONALD, L. Christmas dinner—southern style. *Com. Fert.* 77(6): 35-42. Dec. 1948. 57.8 C73  
Winter pasture for cattle in the Southern States.
- 27091 EIKELBOOM, H. Effect of date of calving on milk production. (In Dutch.) *Netherlands. Landbouw-voorlichtingsdienst. Maandbl.* 5: 550-559. Dec. 1948. 12 N383M  
Chiefly on feeding.
- 27092 FORMIGONI, L. The need for concentrated feeding for the cattle of the Province of Como. (In Italian.) *Campagna* 47: 286, 288. Nov. 1948. 16 C152
- 27093 GREGG, M. There's an "If" in protein feeding. Here's the story of three years of research, used to determine how, when and why dry-land cattlemen should feed protein supplements. *Rec. Stockman, Ann. Ed.* 59(52): 169-171. Dec. 23, 1948. 49 D43
- 27094 HARDY, W. D. Clovers for milk and meat on the Southern Tableland. *Agr. Gaz. N. S. Wales* 59: 560-562, 583. (To be cont.) Nov. 1, 1948. 23 N472
- 27095 HARRIS, E. E. A new dairy feed—wood molasses. *Hoard's Dairyman* 94: 157. Feb. 25, 1949. 44.8 H65
- 27096 HECKL, R. Rinderfütterung und bautechnik. *Landtechnik [Wien]* 1: 353-355. Nov. 1948. 58.8 L236
- 27097 HILL, O. J. Common-sense dairy feeding. *Washcoegg* 26(8): 9. Jan. 1949. 47.8 W27
- 27098 HOLLARD, M. G. Dairy-farming in New Zealand. X. Feeding of dairy stock. II. Crops to supplement pasture. *Lincoln Col. Rur. Ed. B.* 3(10): 2-9. Nov. 1949, i. e. 1948. 109 L63R
- 27099 HOPKINS, D. P. Dutch farmers carry twice the cows per acre on better grass. *Dairy Farmer [Ipswich]* 22(1): 13. Jan. 1949: 44.8 D1414
- 27100 HUGHES, C. E. It's not the cattle—it's you. *Successful Farming* 47: 43, 68-70. Jan. 1949. 6 Su12  
Cattle feeding operations and returns.
- 27101 KEENER, H. A. Minerals in the dairy ration. *Rural New-Yorker* 99: 3, 19. Jan. 1, 1949. 6 R88
- 27102 KEIM, R. V. Clean pastures. *Milking Short-horn J.* 30(1): 19. Jan. 1949. 43.8 M59
- 27103 KIVIMÄE, A. Dairy cow's mineral consumption on pasture at Ultuna farm in the summer 1948. (In Swedish.) *Lantmannen* 32: 823-824. Dec. 11, 1948. 11 L234
- 27104 KNOOP, F. No privacy in the rumen; how a steer with a window in his side makes feeding progress for your farm. *Farm Q.* 3(4): 40-43, 124-125. Winter 1948. 6 F22995
- 27105 LEONOV, N. Acidophilus milk for feeding calves. (In Russian.) *Moloch. Promysh.* 9(6): 45-46. June 1948. 44.8 M734
- 27106 LEWANDOWSKI, L., and ZYWIECKI, H. Ensilaged beet-pulp compared with green forage as a food for milking cows. (In Polish.) *Przegl. Hodowlany* 16: 346-350. Nov./Dec. 1948. 49 P952
- 27107 LOUI, D. How well should you feed your cows? *Prairie Farmer, Ind. Ed.* 121(2): 1, 40, 41. Jan. 15, 1949. 6 P883C
- 27108 MALONE, C. C. If you want to feed cattle. *Successful Farming* 46(11): 35, 134-135. Nov. 1948. 6 Su12
- 27109 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. The feeding of dairy cows. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 264-267. (To be cont.) Jan. 1949. 256.13 Ag82M
- 27110 PALMER, P. How does a bull calf grow? *West. Livestock J.* 26(59): 41-44. Oct. 15, 1948. 6 F2278  
Feeding and care.
- 27111 PARGUEY, G., and MENGUE, J. L'utilisation des tourteaux dans l'alimentation des vaches laitières. *Défense Agr. de la Beauce et du Perche* 46(2): 11. Jan. 10, 1949. 14 D36
- 27112 PROVAGLIO, G. Mistakes in the feeding of dairy cows. (In Italian.) *Agr. Bresciana* 1(49): 1. Dec. 8, 1948. 16 Ag89
- 27113 RALSTON, N. P., MEAD, S. W., and REGAN, W. M. Problems arising from the inclusion of protomone (iodized casein) in dairy cattle feeds. (Abs.) *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 69. 44.9 Am342
- 27114 ROBERTS, B. Stretching the hay supply. *West. Dairy J.* 5(3): 19, 32. Jan. 1, 1949. 44.8 W524  
Feeding cattle in stanchions.
- 27115 ROJAS PUCCINI, J., SCHWEIGERT, B. S., and RUPEL, I. W. La utilización de la lactosa por el ternero bajo dietas de leche íntegra y leche modificada. *Rev. Graccolomb. de Zootec. Hig. y Med. Vet.* 2: 314-325. Ref. Apr./June 1948. 41.8 R3253
- 27116 SCHMIDT, J. Grösse, gewicht und futtermittelverwertung beim rind. *Neue Mitt. f. die Landw.* 3: 113-114. Apr. 21, 1948. 18 N39
- 27117 STANLEY, E. B. Cattle fattening projects, 1944-48. *Ariz. Agr. Expt. Sta. Mimeog. Rpt.* 85, 10 p. Sept. 1948. 100 Ar4M
- 27118 STILLE, E. Höhere milchleistungen durch zweckmässigen futterbau. *Neue Mitt. f. die Landw.* 3: 224. Aug. 5, 1948. 18 N39
- 27119 STOLZ, R. Milchviehfütterung in zuckerrübenwirtschaften. *Neue Mitt. f. die Landw.* 3: 50-51. Feb. 21, 1948. 18 N39
- 27120 STUBBS, J. R. Winter grazing for dairy cows; Gloucestershire investigation. *Gt. Brit. Min. Agr. Agriculture* 55: 369-375. Dec. 1948. 10 G79J
- 27121 TURK, K. L. Feed molasses to reduce feed costs. *Dairymen's League News* 33(3): 6-7. Feb. 8, 1949. 44.8 D1432
- 27122 U. S. BUR. OF AGRICULTURAL ECONOMICS. Rations fed to milk cows, 1948, by J. L. Wilson and F. M. Taylor. Washington, 1949. 24 p. 1.941 H8F32
- 27123 VOLLRATH, H. V. Better [dairy] calves from extra colostrum milk. *Hawaii. U. Agr. Ext. C.* 258, 2 p. Nov. 1948. 275.29 H412Ac
- 27124 VOSKUIL, W. C. This is the year it'll pay you to be free with feed. *Wis. Agr. & Farmer* 75(21): 5. Nov. 6, 1948. 6 W751  
Feeding dairy cattle.



27125 WILLARD, H. S. Standardizing hay palatability trials with calves. *J. Dairy Sci.* 32: 10-16. Jan. 1949. 44.8 J822

#### Veterinary Medicine

27126 ABREU A., H. V. Piroplasmosis y anaplasmosis en el ganado bovino. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 39(181): 13, 15. (To be cont.) Nov./Dec. 1948. 8 R323

27127 AITKEN, W. A. Three cases of dystocia; X disease possible cause. *Amer. Vet. Med. Assoc. J.* 114: 86. Feb. 1949. 41.8 Am3

In cattle.  
27128 ALLMON, H. R. Hyperkeratosis (X disease). *Amer. Vet. Med. Assoc. J.* 114(862): 29. Jan. 1949. 41.8 Am3

27129 ÁLVAREZ Y PÉREZ, A. La tifa como enfermedad profesional. *Ganadería [Madrid]* 6: 512-513. Oct. 1948. 49 G15

In cattle and man.  
27130 ANTONINI, A. Enzootic of bovine meningo-encephalitis. (In Italian.) *Clin. Vet. [Milan]* 71: 308-310. Sept. 1948. 41.8 C61

27131 BAILEY, J. W. Why do vaccinates get Bang's disease? *Guernsey Breeders' J.* 75(1): 13-14, 33-34. Jan. 1, 1949. 43.8 G93

27132 BAILEY, J. W. Will you recognize foot & mouth disease. *Hoard's Dairyman* 94: 180. Feb. 25, 1949. 44.8 H65

27133 BARLOW, F. S. Painless dehorning. *Hoard's Dairyman* 94(3): 105. Feb. 10, 1949. 44.8 H65

27134 BARTLETT, D. E., and DIKMANS, G. Field studies on bovine venereal trichomoniasis; effects on herds and efficacy of certain practices in control. *Amer. J. Vet. Res.* 10(34): 30-39. Jan. 1949. 41.8 Am3A

27135 BARTLETT, D. E. Further observations on experimental treatments of *Trichomonas foetus* infection in bulls. *Amer. J. Vet. Res.* 9: 351-359. Ref. Oct. 1948. 41.8 Am3A

27136 BENDIXEN, H. C., and BLOM, E. Investigaciones sobre la brucelosis en el toro con especial referencia a la difusión de la enfermedad por inseminación artificial. *Indus. Lechera* 30: 731-732, 734, 736-737, 739-742. Nov. 1948. 44.8 In26

27137 BENNETT, J. E. Mastitis and its control. *Butter-fat [Vancouver]* 26(11): 2-3. Feb. 1949. 44.8 B98

27138 BERNKOPF, H., LITTLE, R. B. Comparison of New Jersey and Palestine strains of bovine *Leptospira*. *Soc. Expt. Biol. & Med. Proq.* 69: 503-506. Dec. 1948. 44.2.9 So1

27139 BISKIND, M. S. DDT poisoning and X disease in cattle. *Amer. Vet. Med. Assoc. J.* 114(862): 20. Jan. 1949. 41.8 Am3

27140 BUTTNER, E. E. Long dry periods mean more milk. *So. African Poultry, Pigeon & Bird Mag.* 74 i.e. 54(444): 6. Jan. 1949. 47.8 So83

27141 CALDER, R. Antrycide. *New Statesman & Nation* 37: 28. Jan. 8, 1949. 280.8 N2132

New drug to control trypanosomiasis in cattle in Glossina belt of Africa.  
27142 CARINI, F. The behavior of newborn calves with respect to foot-and-mouth disease. (In Italian.) *Clin. Vet. [Milan]* 71: 244-246. July 1948. 41.8 C61

27143 CHAMBERS, T. A. M. Tuberculosis of the membrana nictitans in a heifer. *Vet. Rec.* 61: 31. Jan. 15, 1949. 41.8 V641

27144 CHODKOWSKI, A. Streptococcal mastitis in cows. (In Polish.) *Med. Wet.* 4(11): 701-706. Nov. 1948. 41.8 M463

English summary.  
27145 CLAY, A. L. Brucellosis (contagious abortion) in cattle. *Queensland Agr. J.* 67: 230-243. Oct. 1948. 23 Q33

27146 COOK, R. C. The Bucks County quintuplets. *J. Hered.* 39: 347-348. Dec. 1948. 44.2.8 Am3

Holstein-Friesian calves.  
27147 COOPER, C. M. Massive doses of sulfones for treatment of foot-rot [of cattle]. *Vet. Student* 11(1): 18-19. Winter 1949. 41.8 V6425

27148 CORREA, O. Principal diseases of the dairy cow; diseases of the udder. (In Portuguese.) *Granja [Porto Alegre]* 3(35): 36-38, 41. Aug. 1948. 9.2 G76

27149 COTONI, L., FORGEOT, P., and THIEULIN, G. Sur les streptocoques des mammites bovines. *Lait* 28: 505-514. Ref. Sept./Oct. 1948. 44.8 L143

27150 CRAMPTON, E. W. Bloat—some recent investigations in England. *Canad. Jersey Breeder* 4(2): 11, 31. Jan. 1949. 43.8 C165

27151 CUNNINGHAM, I. J. The toxicity of copper to bovines. *New Zeal. Dept. Agr. Anim. Res. Div. P.* 30: 372-376. 1947. 49.9 N482P

27152 DEMICHELIS, L. A. Mastitis contagiosa de las vacas lecheras. *Agr. Austral* 14: 7435-7438. Oct. 1948. 9.3 Ag842

27153 DEUBLER, E. C. Case report. Cystic ovaries in cattle; a report of a successful oophorectomy. *Pa. U. School Vet. Med. Vet. Ext. Q.* 113: 25-26. Jan. 18, 1949. 41.9 P386

27154 DINNING, J. S., GALLUP, W. D., and BRIGGS, H. M. Excretion of creatinine and creatine by beef steers. *J. Biol. Chem.* 177(1): 157-161. Jan. 1949. 381 J824

27155 DOREGATTI, F. Vaccination against foot and mouth disease in cattle on mountain pastures. (In Italian.) *Clin. Vet. [Milan]* 71: 281-287. Sept. 1948. 41.8 C61

27156 ERIKSEN, S. What to do about mastitis. *Shorthorn World* 33(20): 24-27. Jan. 25, 1949. 43.8 Sh8

27157 FANKHAUSER, R. Ein parasagittales meningiom beim rind. *Schweiz. Arch. f. Tierheilk.* 90: 729-735. Ref. Dec. 1948. 41.8 Sch9

French summary.  
27158 FLÜCKIGER, G. Lutte officielle contre la tuberculose bovine en Suisse. *Off. Internatl. des Epizoot.* B. 30: 222-228. May 1948. 41.8 Of2

27159 FOLEY, E. J., and LEE, S. W. Factors concerned in streptococcal growth in the bovine udder and their relation to the pathogenesis and treatment of bovine mastitis by penicillin. *Cornell Vet.* 38: 367-380. Ref. Oct. 1948. 41.8 C81

27160 FOLEY, E. J., and others. Studies on vehicles for sustaining penicillin levels in the bovine mammary gland. *Amer. J. Vet. Res.* 10(34): 66-70. Ref. Jan. 1949. 41.8 Am3A

A. W. Stults, S. W. Lee, and J. V. Byrne, joint authors.  
27161 FULLER, R. W. Preliminary report on use of sulfamethazine & penicillin in bovine mastitis. *Vet. Med.* 44: 103-107. Ref. Mar. 1949. 41.8 M69

27162 GEDDES, H. J. Abrupt drying off not harmful to healthy cows, but precautions needed with those that are affected with mastitis. *Farmer & Dairyman* 40 (512) i. e., 502: 5, 6. Nov. 1948. 23 F225

27163 GOULD, G. N. The veterinary surgeon and the dairy herd. *Farmers' Club, London. Farmers' Club J.* 6: 69-74. 1948. 10 L84

Discussion, p. 74-84.  
27164 GRANT, R. Wastage in the meat industry. *Past. Rev.* 58: 1052-1054. Nov. 16, 1948. 23 Au75

Includes losses due to diseases of cattle.  
27165 GRAUB, E. Über die bekämpfung der rinder-tuberkulose. *Schweiz. Arch. f. Tierheilk.* 91: 15-23. Ref. Jan. 1949. 41.8 Sch9

27166 GUIDA, V. O. Black leg. (In Portuguese.) *Biologico* 14: 183-188. Aug. 1948. 44.2.8 B529

Cattle.  
27167 HART, G. H. The problem of spaying heifers. *Pa. U. School Vet. Med. Vet. Ext. Q.* 113: 17-20. Jan. 18, 1949. 41.9 P386

27168 HAYES, A. F., and WRIGHT, G. M. Outbreak of calf diphtheria controlled with sulfamethazine. *Amer. Vet. Med. Assoc. J.* 114: 80-82. Feb. 1949. 41.8 Am3

27169 HELMENIUS, A. Observations on the sexual health conditions of our herds. (In Swedish.) *Ladugården* 1948: 291-292. Dec. 1948. 44.8 L12

Cattle.  
27170 HENRIKSSON, A. Off with the superfluous teats of milch cows. (In Swedish.) *Ladugården* 1948: 294-295. Dec. 1948. 44.8 L12

27171 HENSON, R. Two methods of dehorning calves. *Gt. Brit. Min. Agr. Agriculture* 55: 444-446. Jan. 1949. 10 G79J

27172 HIBBS, J. W., and POUNDEN, W. D. The influence of the ration and early rumen development on the changes in the plasma carotenoids, vitamin A and ascorbic acid of young dairy calves. *J. Dairy Sci.* 31: 1055-1061. Ref. Dec. 1948. 44.8 J822

27173 HOFLUND, S., and HEDSTROM, H. Disturbances in rumen digestion as a predisposing factor to the appearance of acetoneemia [in cattle]. *Cornell Vet.* 38: 405-417. Ref. Oct. 1948. 41.8 C81



- 27174 JASPER, D. E. Myocardial abscesses associated with a congenital cardiac defect in a heifer. *Cornell Vet.* 38: 436-439. Oct. 1948. 41.8 C81
- 27175 JOHANN, R. The origin of bone and joint tuberculosis. (In Polish.) *Med. Wet.* 4(11): 718-720. Nov. 1948. 41.8 M463  
English summary.  
In cows and in swine.
- 27176 JORE D'ARCES, P. La prophylaxie de la tuberculose bovine en Algérie. *Soc. des Agr. d'Algérie.* B. 91: 142-145. June 1948. 24 S01
- 27177 JOSEPH, A. S. Traumatic keratitis in a bullock. *Indian Vet. J.* 25: 168-169. Nov. 1948. 41.8 In2
- 27178 KAESTLI, P. La lutte contre la mammité streptococcique des vaches laitières. *Off. Internatl. des Épizoot.* B. 30: 144-145. Ref. May 1948. 41.8 Of2
- 27179 KLEIBER, M., SMITH, A. H., and RALSTON, N. P. Secretion in cow's milk of intravenously injected radioactive phosphorus P<sup>32</sup>. *Soc. Expt. Biol. and Med.* Proc. 69: 354-356. Nov. 1948. 442.9 S01
- 27180 KOTZÉ, P. L. The rest period of the dairy cow. (In Afrikaans.) *Primary Prod.* [Cape Town] 23(50): 19. Dec. 17, 1948. 281.8 P93
- 27181 KRIISA, A. Über besamungen nach abdrücken des follikels und nach dem follikelsprung beim rinde. *Pinneberg*, 1947. 12 p. (Baltic U. Contrib. 27) 43 K89U  
English summary.
- 27182 LE BOVIT, G. B. Correction of an ulcerated rumen fistula in a calf. *Vet. Med.* 44(1): 43-44. Jan. 1949. 41.8 M69
- 27183 MCBARRON, E. J. Control of milk fever. *Agr. Gaz. N. S. Wales* 59: 569-572. Nov. 1, 1948. 23 N472  
In dairy cattle.
- 27184 MACDONALD, J. H. Penicillin treatment of mastitis by the farmer. *Austral. Vet. J.* 24: 302-306. Ref. Nov. 1948. 41.8 Au72  
Discussion, p. 306-307.
- 27185 MCINTOSH, I. G. Dangers of lead poisoning of cattle. *New Zeal. J. Agr.* 77: 353. Oct. 1948. 23 N48J
- 27186 MANCINI, A. Lucha contra la tuberculosis. *Peru. Dir. de Ganad. Ganad.* 2(5): 32-38. June 1948. 49.9 P433  
Bovine causes of human tuberculosis in Peru.
- 27187 MAUNDER, J. C. J. The control of [bovine] tuberculosis in Queensland. *Austral. Vet. J.* 24: 313-319. Dec. 1948. 41.8 Au72
- 27188 MAYER, L. Bovine influenza. (In Italian.) *Clin. Vet.* [Milan] 71: 363-364. Nov. 1948. 41.8 C61
- 27189 MEAD, S. W., GREGORY, P. W., and REGAN, W. M. An hereditary digital anomaly of cattle. (Abs.) *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 39. 44.9 Am342
- 27190 MELLO, F. P. DE. Campagne d'assainissement des bovins laitiers. *Off. Internatl. des Épizoot.* B. 29: 284-289. July/Aug. 1948. 41.8 Of2  
Control of tuberculosis, brucellosis, mastitis, and vaginitis verrucosa.
- 27191 METZGER, H. J., and SHUART, C. E. Adult and calfhood vaccination for control of brucellosis. *N.J. Agr. Expt. Sta. B.* 741, 19 p. Sept. 1948. 100 N46S
- 27192 MONLUX, A. W. The catalase test in the diagnosis of infectious bovine mastitis. *Cornell Vet.* 38: 389-405. Ref. Oct. 1948. 41.8 C81
- 27193 MONTANARI, M. For a greater extension in the practice of ovariectomy in the cow. (In Italian.) *Clin. Vet.* [Milan] 71: 265-267. Aug. 1948. 41.8 C61
- 27194 MOORE, G. R. Teat surgery. *North Amer. Vet.* 30: 91-94. Feb. 1949. 41.8 N812  
In cattle.
- 27195 MORGAN, R. Horse power delivery. *Vet. Med.* 44(1): 44. Jan. 1949. 41.8 M69  
Difficult bovine obstetrics.
- 27196 MORSE, E. V., and ROBERTS, S. J. Bovine pyelonephritis: a concurrent infection with *Corynebacterium renale* and *Escherichia coli*. *Cornell Vet.* 38: 429-435. Oct. 1948. 41.8 C81
- 27197 MULLER DERFRADAS, R. Castración de terneros. *Campo* [La Paz] 2(16): 27-28. Aug. 1948. 9.1 C15
- 27198 NAGARAJAN, E. R. A note on the type of tubercle bacilli responsible for tuberculosis in cattle of the Madras Corporation. *Indian Vet. J.* 25: 152-156. Nov. 1948. 41.8 In2
- 27199 NARAYANA RAO, P. L. Sub-conjunctival abscesses in calves in Cuddappah District. *Indian Vet. J.* 25: 81-84. Sept. 1948. 41.8 In2
- 27200 OLSEN, O. W. Action of hexachloroethane-bentonite suspension on the rumen fluke, *Paramphistomum* [in cattle]. *Vet. Med.* 44: 108-109. Ref. Mar. 1949. 41.8 M69
- 27201 OWEN, E. C. The effect of thyroxine on the metabolism of lactating cows. 1-2. *Biochem. J.* 43: 235-247. Ref. 1948. 382 B52
- 27202 PANTING in cattle—a sequel to foot-and-mouth disease. *Amer. J. Vet. Res.* 10(34): 40-55. Ref. Jan. 1949. 41.8 Am3A  
I. Experimental observations and pathology, by F. C. Minett, p. 40-48. II. Biochemical observations, by D. N. Mullick, p. 49-55.
- 27203 PATERSON, A. B. The production of bovine tuberculo-protein. *J. Compar. Path. & Ther.* 58: 302-313. Oct. 1948. 41.8 J82
- 27204 PETERSEN, G. La prophylaxie pratique de la tuberculose chez les bovins. *Off. Internatl. des Épizoot.* B. 30: 169-190. May 1948. 41.8 Of2
- 27205 PIERSON, R. E. Keep 'em healthy. *Rec. Stockman, Ann.* 59(52): 69, 76. Dec. 23, 1948. 49 D43  
Cattle diseases.
- 27206 PLUM, N. L'application de l'épreuve par la tuberculine au Danemark. *Off. Internatl. des Épizoot.* B. 30: 191-221. Ref. May 1948. 41.8 Of2
- 27207 POUNDEN, W. D., and HIBBS, J. W. The influence of the ratio of grain to hay in the ration of dairy calves on certain rumen microorganisms. *J. Dairy Sci.* 31: 1051-1054. Dec. 1948. 44.8 J822
- 27208 POUNDEN, W. D., and HIBBS, J. W. The influence of the ration and rumen inoculation on the establishment of certain microorganisms in the rumens of young calves. *J. Dairy Sci.* 31: 1041-1050. Ref. Dec. 1948. 44.8 J822
- 27209 POUNDEN, W. D., and HIBBS, J. W. Rumen inoculations in young calves. *Amer. Vet. Med. Assoc. J.* 114(862): 33-35. Jan. 1949. 41.8 Am3
- 27210 PURCHASE, M. H. S. Notes et renseignements sur l'état actuel des méthodes efficaces de prophylaxie de la peste bovine. *Off. Internatl. des Épizoot.* B. 30: 5-11. May 1948. 41.8 Of2
- 27211 RAO, K. S. Dystokia [in a buffalo] from ascites of the foetus. *Indian Vet. J.* 25: 167. Nov. 1948. 41.8 In2
- 27212 REILLY, H. W. La brucelosis constituye un grave problema. *Chacra* 19(219): 88-89. Jan. 1949. 9 C34  
In cattle and man.
- 27213 RISLER, J. La production d'enzymes antibiotiques par la méthode des cultures associées. Applications au bacille tuberculeux bovin. *Acad. d'Agr. de France. Compt. Rend.* 34: 879-881. Oct. 27/Nov. 3, 1948. 14 P215Bc  
With note by M. Piettre.
- 27214 ROGER. Déchirure utérine avant le part, chez la vache. *Rec. de Méd. Vét.* 124: 508. Nov. 1948. 41.8 R24
- 27215 ROSAGER, H. K. Licking disease. (In Danish.) *Andelsbladet* 50: 39. Jan. 13, 1949. 280.28 An2  
Pica in cattle due to cobalt deficiency.
- 27216 SALUNKE, B. K. Bovine piroplasmiasis—treatment with alum. *Indian Vet. J.* 25: 167-168. Nov. 1948. 41.8 In2
- 27217 SANDERSON, C. J. Dairy farmers face heavy losses from contagious abortion in herds. *Land* [Sydney] 1941, i. e., 1931: 18, 21. Nov. 5, 1948. 23 L22
- 27218 SAVAGE, A. Nitrate poisoning from sugar beet tops. *Canad. J. Compar. Med.* 13(1): 9-10. Jan. 1949. 41.8 C162  
Poisoned cattle treated with methylene blue.
- 27219 SCACAGLIA, R. Cattle hygiene during gestation. (In Italian.) *Avenire Agr.* 56: 263-264. Oct. 1948. 16 Av9
- 27220 SCHALM, O. W., and others. Effect of sulfamethazine on certain infections of the bovine mammary gland. *Amer. J. Vet. Res.* 10(34): 56-62. Ref. Jan. 1949. 41.8 Am3A  
R. A. Bankowski, R. W. Ormsbee, and T. W. Browne, joint authors.
- 27221 SCHINELLI, E. Actinomicosis. *Campo y Suelo Argentino* 32(385): 20-21. Nov. 1948. 9 C15  
In cattle.



- 27222 SCHROEDER, C. R., and others. Sulfamethazine blood concentrations in calves. *Amer. J. Vet. Res.* 10(34): 63-65. Ref. Jan. 1949. 41.8 Am3A  
M. Welsh, R. L. Burkhardt, P. H. Langer, joint authors.
- 27223 SCHWARZ, M. Das euter der kuh, seine gesunderhaltung und behandlung bei krankheiten. *Kärntner Bauer* 98: 389-392. Dec. 1, 1948. 19 K14
- 27224 SELLERS, A. F., and others. A typical pseudorabies and listeriosis in cattle. *Amer. Vet. Med. Assoc. J.* 114: 69-73. Feb. 1949. 41.8 Am3  
B. S. Pomeroy, J. H. Sautter, L. H. Pint, and C. E. Schrafel, joint authors.
- 27225 SHAW, J. N. Ergot poisoning in cattle. *Amer. Vet. Med. Assoc. J.* 114(862): 32. Jan. 1949. 41.8 Am3
- 27226 SHEPARD, C. C. Q fever: a serological survey of bovine serums in the United States. *Amer. J. Trop. Med.* 28: 849-855. Ref. Nov. 1948. 44.8 Am33
- 27227 SIMPSON, C. F. Hyperkeratosis or X disease in Florida. *Vet. Med.* 44: 51-52. Feb. 1949. 41.8 M69
- 27228 SINCLAIR, L. R. Observations on liver flukes in cattle. *Vet. Med.* 44: 68-69. Feb. 1949. 41.8 M69  
*Fasciola hepatica* and *Fascioloides magna*.
- 27229 SMITH, J. Control of cattle disease in Africa; problem of tsetse areas remains. *African World* 1949: 17. Feb. 1949. 286.8 Af8  
Control of trypanosomiasis in cattle.
- 27230 SPENCER, G. R., and KRAFT, M. E. Penicillins G, K, and F in the treatment of chronic bovine streptococcic mastitis. *Cornell Vet.* 38: 358-363. Oct. 1948. 41.8 C81
- 27231 SPISNI, D. Presence of free arginine and histidine in the rumen contents of cattle. (In Italian.) *Clin. Vet. [Milan]* 71: 236-238. July 1948. 41.8 C61
- 27232 STABLEFORTH, A. W. Mammite bovine streptococcique; prophylaxie, controle et eradication. *Off. Internatl. des Epizoot. B.* 30: 121-143. May 1948. 41.8 Of2
- 27233 STEPHENS, E. H. Arsenic poisoning of cattle. *New Zeal. J. Agr.* 77: 384. Oct. 1948. 23 N48J
- 27234 STEWART, S. L. Infection in a heifer suppressed with penicillin. *Vet. Med.* 44: 133. Mar. 1949. 41.8 M69
- 27235 STONE, E. C. Fermentation ability of ingesta from normal and atonic bovine rumens. *Amer. J. Vet. Res.* 10(34): 26-29. Ref. Jan. 1949. 41.8 Am3A
- 27236 TAGLE, E. C. Práctica del descorne. *Argentina. Dir. de Inform. P. Misc.* 270, 4 p. 1948. 9 P943  
Cattle.
- 27237 THOMAS, R. G., ERB, R. E., and SHAW, A. O. The effect of lactation upon the ascorbic acid values of whole blood and blood plasma. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 62-68. Ref. 44.9 Am342
- 27238 TURNER, C. W. Las glándulas de secreción interna en la producción lechera. *Campo y Suelo Argentino* 32(386): 14-15, 52. Dec. 1948. 9 C15
- 27239 TURNER, C. W. Some factors influencing the male hormone content of cow manure. *J. Dairy Sci.* 31: 1032-1040. Ref. Dec. 1948. 44.8 J822
- 27240 VAITSMAN, J. Verminosis in cattle. (In Portuguese.) *Lavoura* 52: 22. Sept./Oct. 1948. 9.2 L39
- 27241 VAITSMAN, J. Veterinary help for calves. (In Portuguese.) *Rev. dos Criadores* 19(12): 35-37. Dec. 1948. 43.8 R32
- 27242 VERGE, J. Étude critique de la prophylaxie des brucelloses bovines. *Off. Internatl. des Epizoot. B.* 30: 96-120. May 1948. 41.8 Of2
- 27243 VERGE, J., and others. Recherches sur le traitement des mammites des vaches laitières par la pénicilline. *Acad. Vét. de France. B.* 21: 355-360. Nov. 1948. 41.9 R24  
P. Saurat, P. Groulade, R. Gaumont, P. Renard, and L. Cauchy, joint authors.
- 27244 VIANELLO, G. On the sulfamide treatment of apoplectic aphtha in cattle. (In Italian.) *Clin. Vet. [Milan]* 71: 263-265. Aug. 1948. 41.8 C61
- 27245 VITA, J. F. La "mancha" de los terneros. *Campo y Suelo Argentino* 32(385): 16-17, 20. Nov. 1948. 9 C15
- 27246 VITTOZ, R. La peste bovine dans l'Asie des moussons. *Off. Internatl. des Epizoot. B.* 30: 12-31. May 1948. 41.8 Of2
- 27247 VOGELSANG, G., and others. Babesia argentina. Localización cerebral en el bovino. *Rev. Gran-colomb. de Zootec. Hig. y Med. Vet.* 2: 269-284. Apr./June 1948. 41.8 R3253  
T. Rodil, P. Gallo, and J. Espín, joint authors.  
English summary.
- 27248 WALTON, A. Working parts of the dairy cow: cud chewing is essential to a cow's complicated digestive processes. *New Zeal. Dairy Expt.* 24(7): 27. Jan. 1949. 44.8 N484
- 27249 WASHKO, F. V. A method of collecting sterile blood from cattle. *Amer. J. Vet. Res.* 9: 359. Oct. 1948. 41.8 Am3A
- 27250 WASHKO, F. V., HUTCHINGS, L. M., and DONHAM, C. R. Studies on the pathogenicity of *Brucella suis* for cattle. I. *Amer. J. Vet. Res.* 9: 342-350. Ref. Oct. 1948. 41.8 Am3A
- 27251 WEBER, A. F., MORGAN, B. B., and MCNUTT, S. H. Clinical and postmortem observations on metrorrhagia in the virgin heifer. *North Amer. Vet.* 29: 705-710. Nov. 1948. 41.8 N812
- 27252 WEGST, P. Wie lange wird das wohl so weitergehen? *Württemberg. Wchnbl. f. Landw.* 115: 361. Nov. 27, 1948. 18 W96  
Cattle disease control.
- 27253 WHEAT, J. D. Surgical repair of a rupture of the uterus with a schistosomus reflexus fetus in a cow. *Cornell Vet.* 38: 427-428. Oct. 1948. 41.8 C81
- 27254 WILLIAMS, T. The evolution and inheritance of horns and their modifications in domesticated cattle. *Cleveland, 1948.* 47 p. 444 W67
- 27255 WILLS, J. G. Progress in tuberculosis control. *Metrop. Milk Prod. News* 9(1): 18, 20-21. Jan. 1949. 280.28 M56
- 27256 WILSON, J. M. Cases of foul in the foot in very young calves. *Vet. Rec.* 61: 12. Jan. 8, 1949. 41.8 V641
- 27257 WOLBERG, F. B. Report of Committee on Artificial Insemination. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 7-8. 44.9 Am342

#### Miscellaneous

- 27258 ADAIR, W. The cow's milking life. *Farming News & North Brit. Agr.* 100(54): 3. Dec. 31, 1948. 10 N82
- 27259 BELL, C. E. Tips on grooming your cattle for the show. *South. Livestock J.* 8(8): 20. Feb. 1949. 43.8 F66A
- 27260 BERGE, S. Yield and age. (In Norwegian.) *Norsk Landbr.* 15: 29-32. (To be cont.) Jan. 21, 1949. 11 N8122
- 27261 BETTINI, T. M. Phenotypic and genotypic acclimatization of domestic animals to the Tropics and Subtropics with particular reference to cattle. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 41: 55-80. Ref. (Cont.) Jan./Mar. 1947. 26 Ag82
- 27262 BEVILACQUA, G. Estimation of the live weight of cattle. (In Italian.) *Agr. Romagnola* 23: 1. Dec. 5, 1948. 16 Ag828
- 27263 BRADBURY, C. J. Standard Herd Test; report for year 1947-48. *Victoria. Dept. Agr. J.* 46: 385-392, 422-424. Sept. 1948. 23 V66J  
Dairy cattle tests, Victoria.
- 27264 BRITISH DAIRY FARMERS' ASSOCIATION. Catalogue of 62nd annual dairy show... October 26th, 27th, 28th and 29th, 1948. 1948. 44.9 B77C  
Includes dairy animals and poultry.
- 27265 BUFFINGTON, C. The age of the Golden Hoof. *Rec. Stockman, Ann. Ed.* 59(52): 229. Dec. 23, 1948. 49 D43  
Contribution of beef cattle associations to the industry.
- 27266 CANDIOLI, P. The bovine population of Verona. (In Italian.) *Agr. delle Venezie* 2: 414-433. Ref. May/June 1948. 16 Ag826
- 27267 CANO, A. E. Elección de ganado lechero. *Argentina. Dir. de Inform. P. Misc.* 272, 15 p. 1948. 9 P943
- 27268 CUNHA, L. A. DA. The raising of dairy cattle. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(338): 24-25. Nov./Dec. 1948. 9.2 B733
- 27269 DAVIDSON, H. R. Our cattle in the Tropics; important research work to test suitability of live stock for resistance to conditions in hot countries. *Farmer & Stock-Breeder* 62: 3012. Dec. 28, 1948. 10 F228  
Activities at the Hannah Research Institute.
- 27270 EHRLICH, C. Gesundheitsmassnahmen im kuhstall. *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 333. Nov. 27, 1948. 18 L2346
- 27271 FOOT, A. S. Future trends in dairying: milk production. *Soc. Dairy Technol. J.* 2: 95-98. Jan. 1949. 44.8 So12  
Care and feeding of cattle.



- 27272 GARKAVI, O. V., and GLEBINA, E. I. Raising young cattle with the purpose of obtaining high quality meat and heavy hides. (In Russian.) Vsesoyuzn. Nauch. Issled. Inst. Zhivotn. Trudy 15: 25-97. Ref. 1947. 49.9 R92
- 27273 GREEN, J. British dairy cattle. *Gt. Brit. Min. Agr. Agriculture* 55: 398-402. Dec. 1948. 10 G79J
- 27274 GUILBERT, H. R. Hair coats & climate. *West. Livestock J.* 26(59): 111-112. Oct. 15, 1948. 6 F2278  
Effect on body heat of beef cattle.
- 27275 HEDLUND, G. W. Accounts for county dairy herd improvement cooperatives. *N. Y. Agr. Col. A. E.* 690, 13 p. Jan. 1949. 281.9 C81
- 27276 HINTON, S. A. How to milk a cow. *South. Agr.* 77, i. e., 78(11): 11, 58. Nov. 1948. 6 S083
- 27277 HOFFORD, H. M. Records pay. *Hoard's Dairyman* 94: 69. Jan. 25, 1949. 44.8 H65
- 27278 HOLLAND, J. R. Wanted: bell ringers. *Milking Shorthorn J.* 30(1): 3-4. Jan. 1949. 43.8 M59  
Advertising the American Milking Shorthorn Society.
- 27279 HÖLLERICH, R. Melkarbeit. *Österr. Milch-u. Fettwirtschaft* 3: 231-232. (Cont.) Oct. 1948. 44.8 Os72
- 27280 HORWOOD, R. E., SNIDER, W. W., and WEAVER, E. Good milking practices. *Mich. State Col. Agr. Ext. B.* 293, 19 p. 1948? 275.29 M58B
- 27281 HOTCHKISS, O. D. Brand inspection for Oregon's cattle industry. *Oreg. Dept. Agr. Agr. B.* 160: 16-17. Dec. 1948. 2 Or3
- 27282 JAGER LEMAITRE, R. Origen, explotación, cuidados, y alimentación de la vaca lechera. *Campo [La Paz]* 2(17): 53-57. (To be cont.) Sept. 1948. 9.1 C15
- 27283 JOHANSSON, I. Variations in milk yield of cows and fat content of milk during the lactation period and its effects on the reliability of yield control. (In Swedish.) *Ladugården* 1948: 270-278. Dec. 1948. 44.8 L12
- 27284 JOHANSSON, R. Report of the activities of the central control association of the Östergötland Province Agricultural Association, 12, 1946-1947. (In Swedish.) *Östergötlands Läns Hushållningssällsk. Handl.* 1, 145 p. 1948. 11 Sw32H  
Chiefly on control of cattle.
- 27285 JONES, I. R. Report of Intercollegiate Dairy Cattle Judging Contest at Pacific International Livestock Exposition, October 2, 1948. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 9-10. 44.9 Am342
- 27286 KELLY, E. M. Production contests influence dairying. *Hoard's Dairyman* 94: 88-89. Jan. 25, 1949. 44.8 H65
- 27287 KÖPPE, W. Wie schaffen wir mehr milch? *Neue Mitt. f. die Landw.* 3: 47-48. Feb. 21, 1948. 18 N39
- 27288 KRIGE, I. M., and TIMSON, S. D. Care and management of a dairy herd and the making of compost. *South-Rhodesia. Dept. Agr. & Lands B.* 1444, 15 p. Salisbury, 1948. 24 R345  
Care and management of a dairy herd, by I. M. Krige. Making of compost, by S. D. Timson.
- 27289 LUCHINI, R. On milk production from Somali cattle. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 41: 202-211. July/Sept. 1947. 26 Ag82
- 27290 MAITS, B. Is this America's finest dairy herd? *Country Gent.* 119: 27, 63-65. Jan. 1949. 6 C833  
A Holstein herd and management of a dairy farm.
- 27291 MORRISON, R. A., and ERB, R. E. Centering date versus calendar month for computing dairy cow production records. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 52-57. 44.9 Am342
- 27292 MORSE, R. Nebraska's cattle beginnings. *Amer. Hereford J.* 39(19): 102-104, 106, 108-110, 112-113. Feb. 1, 1949. 43.8 Am32
- 27293 MURLEY, W. R. DHIA supervisor aids dairymen. *Hoard's Dairyman* 94: 159, 176. Feb. 25, 1949. 44.8 H65
- 27294 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Autumn calvers give most milk. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 238-239. Dec. 1948. 256.13 Ag82M
- 27295 OLOUFA, M. M., and JONES, I. R. The relation between the month of calving and yearly butterfat production. *J. Dairy Sci.* 31: 1029-1031. Dec. 1948. 44.8 J822
- 27296 PACHECO GARMENDIA, H. Panorama de ganadería de carne en las zonas de Jaén y Bagua. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 2(6): 29-31. Sept. 1948. 49.9 P433
- 27297 PARKIN, I. E. Managed milking. *So. African Dairyman* 10: 444. Dec. 1948. 44.8 S0822
- 27298 PARR, C. H. Method of calf rearing developed at the Indian Agricultural Research Institute. *Indian Farming* 8: 333-337. July 1947. 22 In283
- 27299 PEGG, S. E. Pure-bred herd recording for 1947-48. *Queensland Agr. J.* 67: 217-226. Oct. 1948. 23 Q33  
Production records of pure bred cows.
- 27300 PERRON, J. Il ne faut pas négliger les vaches taries. *B. des Agr.* 45(1): 16. Jan. 1949. 7 B872
- 27301 PETERSEN, W. E. Dr. Petersen on milking methods. *New Zeal. Dairy Exptr.* 24(6): 6-7, 9-10. (To be cont.) Dec. 1948. 44.8 N484
- 27302 PETERSEN, W. E. Professor Petersen talks on American dairy practice; herd recording on the way up and A. I. booming in United States. *New Zeal. Dairy Exptr.* 24(5): 4-5, 38. Nov. 1948. 44.8 N484
- 27303 PHILIPSEN, J. Rationalization of cattle breeding. (In Danish.) *Dansk Landbr.* 67: 490-491. Dec. 16, 1948. 280.28 V91  
Judging.
- 27304 POU, J. W. Clipping means cleaner milk. *Md. Farmer* 32(12): 5, 15. Dec. 1948. 6 M362
- 27305 QUEIRÓZ, M. DE S. Zootechnics - the dairy cow. (In Portuguese.) *Chacaras e Quintais* 79: 99-100. (Cont.) Jan. 15, 1949. 9.2 C34
- 27306 RODHE, S. O. Future dairy cattle control. (In Swedish.) *Ladugården* 1948: 287-290. Dec. 1948. 44.8 L12
- 27307 SARBACH, L. N. Big business girl—the cow. *Sci. Digest* 25: 16-20. Jan. 1949. 470 Sci27
- 27308 SIRRI, A. How much milk does a well kept barn produce? (In Italian.) *Bologna Agr.* 1(38): 1. Oct. 9, 1948. 16 B634  
Cattle care.
- 27309 SORIA, G. E. Indices de bovinometria. *Chacra* 19(218): 20-21. Dec. 1948. 9 C34
- 27310 SPANN, J. Winke für die kuharbeit. *Landw. Wohnbl.* 138: 365-396. Nov. 13, Nov. 27, 1948. 18 L2338
- 27311 STREICHER, L. Anleitung für die allgäuer melkmethode. Ed. 15. Kempten, Fehr, 1947. 16 p. 44 St85
- 27312 THELEN, K. A. Wirtschaftliche lenkung der kalbezeiten. *Neue Mitt. f. die Landw.* 3: 483. Dec. 25, 1948. 18 N39
- 27313 TURK, K. L. Program for more dairy herd improvement records. *Dairymen's League News* 33(2): 6. Jan. 25, 1949. 44.8 D1432
- 27314 TYNER, C. Tarnished heels. *Milking Shorthorn J.* 30(2): 10. Feb. 1949. 43.8 M59  
Need for proper care and feeding.
- 27315 TYRER, T. G. Nearly 264 lbs. fat per acre for 11 years. *New Zeal. Dairy Exptr.* 24(6): 4-5, 38. Dec. 1948. 44.8 N484
- 27316 VERNEY, L. What herd recording shows. *Queensland Agr. J.* 67: 215-216. Oct. 1948. 23 Q33  
Dairy herd records.
- 27317 WARD, G. M., and SMITH, V. R. Total milk production as affected by time of milking after application of a conditioned stimulus. *J. Dairy Sci.* 32: 17-21. Ref. Jan. 1949. 44.8 J822

## DOGS AND CATS

## Breeds and Breeding

- 27318 BEMIS, R. W. Irish Ter. standard clarified. *Dog World* 34(2): 111. (To be cont.) Feb. 1949. 48.8 D672
- 27319 BERNAUS, A. S. Las carreras de galgos en Barcelona. *Nuestros Amigos* 5(53): 6-7; (54): 10-11; (55): 12-13. Oct.-Dec. 1948. 48.8 N88
- 27320 THE BREEDS in brief. no. 83: Wire-haired Pointing Griffon. *Amer. Kennel Gaz.* 66(2): 29-30, 165-168. Feb. 1949. Beltsville Br. Libr.
- 27321 COBB, B. K. The family factor in cat breeding. *All-Pets Mag.* 20(2): 39, 42. Feb. 1949. 48.8 AL5
- 27322 CONNETT, E. V., ed. American sporting dogs. New York, Van Nostrand, 1948. 549 p. 48 C762



27323 DOGS of America; purebred population runs over one million but the mutts outnumber it 20 to 1. Life 26(5): 40-48. Jan. 31, 1949. 280.28 L62

Includes chart of "Dog genealogy."

27324 GOLDEN RETRIEVER CLUB OF AMERICA. Year book, 1948. Boston, 1948. 96 p. 48.9 G56

27325 GUINOT, R. Le Berger d'Alsace ou Berger Allemand. Rustica 21: 923. Dec. 26, 1948. 14 R92

27326 HUBBARD, C. L. B. Working dogs of the world. London, Sidgwick and Jackson, 1947. 240 p. 48 H86W

27327 KOHTS, A. E. The variation of colour in the common wolf and its hybrids with domestic dogs. London. Zool. Soc. Proc. 117: 784-790. Feb. 1948. 410.9 L84P

27328 KRONER, K. Die zwergschnauzerzucht von heute. Kleintier-Zücht. Tierbörse 3(48): 8-9. Nov. 25, 1948. 49 K672

27329 LOWRY, R. K. There's an art to dog breeding. All-Pets Mag. 20: 33, 35. Jan. 1949. 48.8 AL5

27330 MACGAHERAN, J. The Golden Retriever in North America. Golden Retriever Club Amer. Ybk. 1948: 16-18. 48.9 G56

27331 MENRAD, K. Künstliche befruchtung. Kleintier-Zücht. Tierbörse 3(49): 9-10. Dec. 10, 1948. 49 K672

Dogs.

27332 MESNARD, H. A. Spaniels are sporting dogs. Dog World 34(1): 64. (Cont.) Jan. 1949. 48.8 D672

27333 MILLINGTON, B. Clever Gundog: popular pet. The Labrador Retriever is a versatile and lovable dog. Smallholder 80(2020): 22. Dec. 17, 1948. 10 Sm1

27334 PIERCE, MRS. C. E. Training and uses of the Scottie. Dog World 34(2): 122. Feb. 1949. 48.8 D672

27335 RASTALL, S. H. Breeding: principles-of-inbreeding: selecting sire and dam. New Zeal. Dog World 3(11): 5-6. Dec. 1948. 48.8 N48

27336 RICKETTS, V. L. Choosing foundation stock. All-Pets Mag. 20: 33, 34, 36, 37. Jan. 1949. 48.8 AL5

In dog breeding.

27337 RICKETTS, V. L. Planned breeding. All-Pets Mag. 20(2): 31, 34, 37. Feb. 1949. 48.8 AL5

Of dogs.

27338 SILVER, J. The Great Dane takes pride of place in the "big breeds." Dog World 32: 21. Jan. 14, 1949. 48.8 D674

27339 SKELLY, G. F. All about fox terriers; a complete manual on history, care and training, with practical information on how to breed high-class dogs. New York, Orange Judd, 1948. 299 p. 48 Sk2

27340 SMITH, C. E. The American bred Basset Hound. Fur-Fish-Game 98(1): 32-34. Jan. 1949. 410 F962

27341 SMOLIK, R. S. Chihuahuas—the native breed. All-Pets Mag. 20: 37, 38. Jan. 1949. 48.8 AL5

27342 SMOLIK, R. S. Shifts in popularity among breeds. All-Pets Mag. 20(2): 31, 34, 36-37. Feb. 1949. 48.8 AL5

Of dogs.

27343 SMYTH, MRS. L. B. Shows in Germany. Cocker Spaniel Visitor 11(1): 33-35. Jan. 1949. 48.8 C64

27344 YEATTER, R. E. Bird dogs in sport and conservation. Ill. Nat. Hist. Survey. C. 42, 64 p. Ref. Dec. 1948. 410.8 H6C

Breeds and training.

#### Feeds and Feeding

27345 DILLON, C. E. Dog food as a by-product for locker plants. Quick Frozen Foods 11(7): 96-97. Feb. 1949. 389.8 Q4

27346 JENSEN, H. E. Nutritional requirements of small animals. II. Allied Vet. 20(2 i.e. 1): 9-12. Jan./Feb. 1949. 41.8 AL5

Dogs and cats.

27347 MCCAY, C. M., and others. Calcium utilization by dogs. Flour & Feed 49(9): 24. Feb. 1949. 298.8 F66

L. L. Barnes, R. H. Udall, and F. E. Lovelace, joint authors.

#### Veterinary Medicine

27348 ALLAM, M. W., NULSEN, F. E., and LEWEY, F. H. Electrical intraneural bipolar stimulation of peripheral nerves in the dog. Amer. Vet. Med. Assoc. J. 114: 87-89. Feb. 1949. 41.8 Am3

27349 BACHRACH, A. Tyrothricin-benzyl benzoate in canine dermatosis. Amer. Vet. Med. Assoc. J. 114 (862): 27-29. Jan. 1949. 41.8 Am3

27350 BASSET, J. Maladie du chien, canine distemper. Vaccination et traitement par le virus-furet. Acad. Vét. de France. B. 21: 313-322. Oct. 1948. 41.9 R24

27351 BERMAN, M. B. Étude sur l'action hypnotique de l'acide diallyl-barbiturique chez le chien. Rev. de Méd. Vét. [Toulouse] 99: 449-459. Oct. 1948. 41.8 R32

27352 BOND, E., and KUBIN, R. Lead poisoning in dogs. Vet. Med. 44: 118-123. Ref. Mar. 1949. 41.8 M69

27353 BRADBURY, R. H. Finish fight with a porcupine. Jen-Sal J. 32: 24. Jan./Feb. 1949. 41.8 J45

1713 quills removed from Pit Bull Terrier.

27354 BRADBURY, R. H. Observations on canine leucemia. Vet. Med. 44: 116-117. Mar. 1949. 41.8 M69

27355 BRINKER, W. O. Fractures of the mandible. Vet. Med. 44: 53-55. Feb. 1949. 41.8 M69

In dogs and cats.

27356 BRINKER, W. O., and SALES, E. K. Treatment of dislocation of the elbow in dogs. Vet. Med. 44: 135. Mar. 1949. 41.8 M69

27357 BRION, A., and BERTRAND, M. Existence en France de la néphrite leptospirosique du chien à Leptospira canicola. Soc. de Biol. Compt. Rend. 142: 1112-1113. Sept. 1948. 442.9 P21

27358 BROWN, R. G., BRUNER, D. W., and MORAN, A. B. Salmonella pullorum in a dog. Amer. Vet. Med. Assoc. J. 114(862): 29. Jan. 1949. 41.8 Am3

27359 CAMPBELL, G. S., BROWN, E. B., JR., and GOLLAN, F. Plasma inorganic phosphate concentration and hyperventilation in the dog. Amer. J. Physiol. 154: 185-187. Ref. Aug. 1, 1948. 447.8 Am3

27360 CHADDOCK, T. T. Infectious canine hepatitis as it occurs in the dog experimentally. Auburn Vet. 5(1): 11-12, 34, 36-39. Fall 1948. 41.8 Aul

27361 CORDY, D. R. Interstitial pneumonia [in dogs] with giant cells and inclusions. Amer. Vet. Med. Assoc. J. 114(862): 21-26. Ref. Jan. 1949. 41.8 Am3

27362 DAVIS, E. A. Observations on feline practice. Vet. Med. 44: 64-67. Feb. 1949. 41.8 M69

Anatomy and physiology; diseases and parasites.

27363 EHMER, E. A., CUMMINGS, F. C., and CRAFT, J. C. The clinical use of Green's distemperoid virus. North Amer. Vet. 29: 718-720. Nov. 1948. 41.8 N812

27364 EPSTEIN, E. E. Hypertrophy of the prostate gland in a young dog. Vet. Med. 44: 86. Feb. 1949. 41.8 M69

27365 FLECK, G. J., GUSS, S. B., and ROYER, H. K. Tyrothricin-benzyl benzoate in veterinary practice. Amer. Vet. Med. Assoc. J. 114: 83-85. Feb. 1949. 41.8 Am3

Treatment of skin diseases in dogs.

27366 FLINKER, M. L., and MCCARRELL, J. D. Effect of ether and pentobarbital anesthesia on cervical lymph flow and protein content in the cat. Amer. J. Physiol. 155(1): 50-55. Ref. Oct. 1, 1948. 447.8 Am3

27367 GNES. A new virus disease of dogs; poliomyelitis? (In Italian.) Clin. Vet. [Milan] 71: 261-263. Aug. 1948. 41.8 C61

27368 GOLDMAN, D. E. Effect of mechanical vibration on the patellar reflex of the cat. Amer. J. Physiol. 155(1): 78-81. Oct. 1, 1948. 447.8 Am3

27369 GOSS, L. W. Distemper. Dog World 34(1): 4, 6. Jan. 1949. 48.8 D672

27370 GROULADE, P. Angine infectieuse du chat; (essai de pénicilliothérapie). Rec. de Méd. Vét. 124: 509. Nov. 1948. 41.8 R24

27371 GROULADE, P. Essai de traitement de l'hépatonéphrite dans la maladie de Carré. Rev. de Méd. Vét. [Toulouse] 99: 552-553. Dec. 1948. 41.8 R32

27372 GROULADE, P. Le traitement de la maladie de Carré par le virus adsorbé sur hydroxyde d'alumine et desséché (méthode du Professeur Goret). Acad. Vét. de France. B. 21: 369-370. Nov. 1948. 41.9 R24

27373 GUIDA, V. O. Canine leptospirosis. (In Portuguese.) Soc. Paul. de Med. Vet. B. 8: 61-64. June 1948. 41.9 So13

27374 GUIDA, V. O. Studies on canine leptospirosis. I. First results of research with lysins on normal dogs. (In Portuguese.) Soc. Paul. de Med. Vet. B. 8: 65-69. June 1948. 41.9 So13

English summary.



- 27375 HAMILTON, A. S. Study of in vitro methods for the demonstration of iso-agglutination with the bloods of normal and of ill dogs. *Amer. J. Physiol.* 154: 525-531. Ref. Sept. 1, 1948. 447.8 Am3
- 27376 HESLOP, G. G. A case of osteochondritis, similar to Legg-Perthe's disease, in a dog. *Austral. Vet. J.* 24: 307-308. Nov. 1948. 41.8 Au72
- 27377 HEWITT, E. A. Respiration in the dog. *North Amer. Vet.* 29: 722. Nov. 1948. 41.8 N812
- 27378 HODGSON, H. H. Unusual pulmonary symptoms in dogs. *Vet. Med.* 44: 85-86. Feb. 1949. 41.8 M69
- 27379 HOERLEIN, B. F. Ventricular dropsy in the dog. *Vet. Med.* 44: 60-63. Feb. 1949. 41.8 M69  
Internal hydrocephalus.
- 27380 JIRINA, K. Self-castration due to rabies. *Amer. Vet. Med. Assoc. J.* 114(862): 14-15. Jan. 1949. 41.8 Am3  
Case in dogs.
- 27381 KAPLAN, A. D. Allergy observations and treatments in animals. *Vet. Med.* 44: 82-84. Feb. 1949. 41.8 M69  
Reports on cases in dogs and cats.
- 27382 KARP, D. The effect of quinine and atabrine on gastric secretory function in the dog. *Rev. Canad. de Biol.* 7: 508-531. Ref. Nov. 1948. 442.8 R325  
French summary.
- 27383 KONDE, W. N. Clinical report on amino acid therapy. *Amer. Vet. Med. Assoc. J.* 114: 74-75. Feb. 1949. 41.8 Am3  
For distemper, leptospirosis, etc., in dogs.
- 27384 KONDE, W. N. Leukemia and similar conditions. *North Amer. Vet.* 30: 98-103. Ref. Feb. 1949. 41.8 N812  
Cases in dogs.
- 27385 LASICHAK, A. G., and LEVEY, S. Glutamic acid and vomiting in dogs: its administration into the portal system and extremity veins. *Soc. Expt. Biol. & Med. Proc.* 70: 74-76. Jan. 1949. 442.9 Sol
- 27386 LATIMER, H. B., and CORDER, R. L. The growth of the digestive system in the fetal dog. *Growth* 12: 285-309. Ref. Dec. 1948. 442.8 G91
- 27387 LATIMER, H. B. A hernia through the muscular lacuna in a newborn male puppy. *Anat. Rec.* 102: 439-444. Dec. 1948. 447.8 An1
- 27388 MACE, D. L. Five unusual cases of canine rabies. *Amer. Vet. Med. Assoc. J.* 114(862): 30-32. Jan. 1949. 41.8 Am3
- 27389 MENRAD. Das gesäuge der hündin und seine pflege. *Kleintier-Zücht. Tierbörse* 3(46): 10. Oct. 25, 1948. 49 K672
- 27390 MILLER, E. R. Tetanus in the cat. *Vet. Rec.* 61: 40-41. Jan. 22, 1949. 41.8 V641
- 27391 MILLER, M. E. Guide to the dissection of the dog. Ed. 2. Ithaca, N. Y., 1948. 427 p. 444 M61
- 27392 MITCHELL, J. M. Successful perineal hernia operation [in a dog]. *Vet. Rec.* 60: 685. Dec. 25, 1948. 41.8 V641
- 27393 MOLINA, R. A. Transmisión de la enfermedad de Aujeszky a perros, por cerdos infectados de peste porcina. *B. Zootec.* 4: 202-209. July 1, 1948. 41.9 Sol6
- 27394 MOUGEOT, M. Observations cliniques sur la maladie de Carré. *Rev. de Méd. Vét. [Toulouse]* 99: 445-446. Oct. 1948. 41.8 R32
- 27395 NANTA, and others. Les tumeurs vénériennes du chien et de la chienne dans la région Toulousaine. *Rev. de Méd. Vét. [Toulouse]* 99: 529-531. Dec. 1948. 41.8 R32  
Bazex, Bru, Lasserre, Puget, Bonneau, and Lacour, joint authors.
- 27396 NELSON, V. M. Siamese [cat] dots and dashes. *All-Pets Mag.* 19(11): 38, 47. Nov. 1948. 48.8 AL5  
Infectious enteritis in cats.
- 27397 NOBLE, R. L. Adaptation to experimental motion sickness in dogs. *Amer. J. Physiol.* 154: 443-450. Sept. 1, 1948. 447.8 Am3
- 27398 PARRY, H. B. Epileptic states in the dog, with special reference to canine-hysteria. *Vet. Rec.* 61: 23-29. Jan. 15, 1949. 41.8 V641  
Discussion, p. 30-31.
- 27399 REUTNER, T. F., and GRUHZIT, O. M. Methadon, a new analgesic; study in combination with thiobarbiturate anesthesia in dogs. *Amer. Vet. Med. Assoc. J.* 113: 448-451. Nov. 1948. 41.8 Am3
- 27400 ROSE, R. N. The fight against distemper; how The Field helped in the discovery of a preventive. *Field* 193: 10-11. Jan. 1, 1949. 10 F45  
Distemper in dogs.
- 27401 ROSEBERG, A. R. First aid. *Cocker Spaniel Visitor* 11(1): 14-15. Jan. 1949. 48.8 C64
- 27402 RUST, J. H. Transmissible lymphosarcoma in the dog. *Amer. Vet. Med. Assoc. J.* 114(862): 10-14. Ref. Jan. 1949. 41.8 Am3
- 27403 SCHLOTTHAUER, C. F., and THURBER, W. B. Thrombosis of the vena cava in a dog. *North Amer. Vet.* 29: 720-721. Nov. 1948. 41.8 N812
- 27404 SEBRELL, W. H., and HUNDLEY, J. M. Studies of anemia induced by indole in niacin deficient dogs. *Assoc. Amer. Physicians, Trans.* 61: 288-292. 1948. 448.9 As7
- 27405 SIEGEL, M. The treatment of skin diseases of dogs and cats with polysulfide in propylene glycol. *Amer. Vet. Med. Assoc. J.* 114: 76-79. Feb. 1949. 41.8 Am3
- 27406 SILVER, M. L., and POLLOCK, G. H. Role of carbon dioxide and of the hindbrain in agene-induced canine epilepsy. *Amer. J. Physiol.* 154: 439-442. Ref. Sept. 1, 1948. 447.8 Am3
- 27407 SMITH, S. G. A possible animal analogue of familial periodic paralysis. (Abs.) *Elisha Mitchell Sci. Soc. J.* 64: 167-168. Dec. 1948. 500 EL4  
In dogs.
- 27408 SWALLOW, W. A. The distemper problem. *Our Dumb Anim.* 82(1): 10-11. Jan. 1949. 48.8 Ou7
- 27409 TEDDER, P. W. Cat spay job. *Auburn Vet.* 5(1): 19-20, 42. Fall 1948. 41.8 Au1
- 27410 TICHY, V. L., and SHAW, B. W. Augmentation of femoral venous flow in the dog by electrical stimulation of muscles. *Soc. Expt. Biol. and Med. Proc.* 69: 368-369. Nov. 1948. 442.9 Sol
- 27411 TORRENS PASTOR, A. Las enfermedades del perro, y la salud del hombre. *Ceres [Valladolid]* 12(149): 11-12. Nov. 1, 1948. 15 C33
- 27412 VINE, L. L. Corrective ear surgery [in dogs]. *Vet. Med.* 44: 80-81. Feb. 1949. 41.8 M69
- 27413 WANG, C. C., GOSSMAN, M. I., and IVY, A. C. Effect of secretin and pancreozymin on amylase and alkaline phosphatase secretion by the pancreas in dogs. *Amer. J. Physiol.* 154: 358-368. Ref. Aug. 1, 1948. 447.8 Am3
- 27414 WHEATLEY, M. D., KNOTT, J. R., and INGRAM, W. R. Electroencephalograms in behavior changes in cats. *Soc. Expt. Biol. & Med. Proc.* 70: 16-19. Ref. Jan. 1949. 442.9 Sol
- 27415 WICKHAM, N. Salmonella cambridge infection in a cat. *Austral. Vet. J.* 24: 337. Dec. 1948. 41.8 Au72
- 27416 YARBOROUGH, J. H. Disease and conditions of racing dogs. *Vet. Med.* 44: 56-59. Feb. 1949. 41.8 M69

## Miscellaneous

- 27417 AMERICAN KENNEL CLUB. Charter, constitution and by-laws. New York, 1948. 24 p. 48.9 Am3C
- 27418 BROWN, W. Cómo educar perros de casa. *Nuestros Amigos* 5(52): 4, 40; (53): 8-10; (54): 4-5. Sept.-Nov. 1948. 48.8 N88
- 27419 CHANSLER, W. S. Speaking of dogs. *Rural New-Yorker* 98: 678, 679. Nov. 6, 1948. 6 R88  
Care and use.
- 27420 DAVIS, H. P. Training your own bird dog. New York, Putnam, 1948. 175 p. 48 D29
- 27421 DUNCAN, R. Tomu from Tibet. *Country Life [London]* 105: 258-259. Feb. 4, 1949. 80 C83
- 27422 GOULD, E. Registration of our pure bred dogs. *Bloodlines* 31(11): 3, 10-11. Nov. 1948. 48.8 B62
- 27423 GUINOT, R. Le dressage des jeunes chiots. *Rustica* 22: 15. Jan. 2, 1949. 14 R92
- 27424 HICKS, C. B. Trainer of champions. *Pop. Mechanics Mag.* 90(5): 120-123, 268. Nov. 1948. 241.8 P81  
Training bird dogs.
- 27425 JUDY, W. L. Training the dog; a presentation of the mentality of the dog with instructions suitable for training all breeds for all purposes, including also field and outdoor work. Ed. 8. Chicago, Judy Pub. Co., 1948. 179 p. 48 J92T



- 27426 KING, B. Selling pet puppies. Cocker Spaniel Visitor 10(12): 15-17. Dec. 1948. 48.8 C64
- 27427 LACEY, P. H. The judge must know his dogs. New Zeal. Dog World 3(10): 2. Nov. 1948. 48.8 N48
- 27428 LEBEAU, A. C. A. Élevage et médecine du chien. Paris, Vigot, 1947. 215 p. 48 L49
- 27429 LOWRY, R. K. How to sell dogs. All-Pets Mag. 19(12): 37, 39, 43. (Concl.) Dec. 1948. 48.8 AL5
- 27430 LOWRY, R. K. Your dog and mine. Des Moines, Meredith P. Co., 1948. 108 p. 48 L95
- 27431 LYNGAAS, N. C. A brief survey of the level of dog material in Norway today. (In Norwegian.) Norsk Kennelklub Tidsskr. 49: 268-271. Dec. 1948. 48.9 N81T
- 27432 LYON, M. Know, train, and use your dog's five senses. 1. American Kennel Gazette 66(2): 11-13, 160-162. Feb. 1949. Beltsville Br. Libr.
- 27433 MEINERS. Der hund als waffe. Kleintier-Zücht. Tierbörse 3(47): 11. Nov. 10, 1948. 49 K672
- 27434 MENRAD. Ich kaufe einen hund! Kleintier-Zücht. Tierbörse 3(48): 8. Nov. 25, 1948. 49 K672
- 27435 MOUTTE, P. Jeunes chiens. Réveil Agr. 58(2546): 9. Jan. 1, 1949. 14 R322
- 27436 PALMER, G. F. Psychology and training your gundog. New Zeal. Dog World 3(11): 7-9. Dec. 1948. 48.8 N48
- 27437 RAABE, A. Fuglehunden; pleie, dressur og jakt [The bird dog; care, training, and hunting]. Ed. 5, enl. Oslo, Cammermeyer, 1947. 230 p. 48 R11
- 27438 ROSS, D. G. Amaestramiento de perros ovejeros. Chacra 19(218): 100-101. Dec. 1948. 9 C34
- 27439 ROSS, D. G. Cuando comienzan a trabajar los ovejeros. Chacra 19(219): 91, 100. Jan. 1949. 9 C34
- Shepherd dogs...
- 27440 STREEVER, F. Dogs. Scent perception. Hunting & Fishing 26(1): 56-58. Jan. 1949. 410 H922
- 27441 SWEDRUP, I. The dog material in Sweden during 1948. (In Swedish.) Norsk Kennel Klubs Tidsskr. 50: 12-15. Jan. 1949. 48.9 N81T
- 27442 TAYNTON, M. How to sell dogs. American Kennel Gazette 66(2): 18-21, 32. Feb. 1949. Beltsville Br. Libr.
- 27443 TUTTLE, K. How to buy dogs. American Kennel Gazette 66(2): 22-23. Feb. 1949. Beltsville Br. Libr.
- 27444 WOOLCKEN, A. La educación del perro. Nuestros Amigos 5(54): 6-9. Nov. 1948. 48.8 N88

#### FUR ANIMALS - PEN RAISED

##### Breeds and Breeding

- 27445 PIERCE, L. M. Breeding experiments needed to revive the ranch fox. Amer. Fur Breeder 21(7): 34, 36, 38. Jan. 1949. 410 Am33
- 27446 STEPHENS, F. E. Genetics: knowledge of color phases is important. Fur J. 15(3): 18, 38. Jan. 1949. 412.628 F969
- Minks.

##### Feeds and Feeding

- 27447 ANDERSSON, A. Distribution of vegetable feed for fur animals during the period Dec. 1, 1948-Feb. 28, 1949 and of molasses for conservation of animal waste during the feed year 1948/49. (In Swedish.) Våra Pälstdjur 16: 293-296. Dec. 1, 1948. 410 V42
- 27448 BASSETT, C. F., and WILKE, F. The comparative value of poultry waste and horse meat for feeding mink. Fur Trade J. Canada 26(4): 12-13, 60. Dec. 1948. 410 F965
- 27449 BERG, H. Drying of fish and fish waste. (In Swedish.) Våra Pälstdjur 20: 33-34. Feb. 1, 1949. 410 V42
- As feed for fox and mink.
- 27450 BRENON, H. C. Observations on calcium needs in chinchillas. Natl. Chinchilla Breeder 4(11): 9, 12. Jan. 1949. 412.628 N21
- 27451 DAN, A. Verfütterung von nährsalzen an sumpfbiber. Deut. Pelztierzucht. 22: 230-231. Dec. 15, 1948. 412.628 D48
- 27452 KELLER, G. Nochmals: jungfuchsfütterung. Deut. Pelztierzucht. 22: 233-234. Dec. 15, 1948. 412.628 D48

##### Veterinary Medicine

- 27453 CHEATUM, E. L., and COOK, A. H. On the occurrence of the North American Guinea worm [Dracunculus insignis] in mink, otter, raccoon, and skunk in New York State. Cornell Vet. 38: 421-423. Oct. 1948. 41.8 C81
- 27454 GORHAM, J. R. An attempt to infect mink and fox with Erysipelothrix rhusiopathiae. Vet. Med. 44: 136. Mar. 1949. 41.8 M69
- 27455 GORHAM, J. R. Scrotal hernia in mink. Fur Farming J. 2(4): 15. Jan./Feb. 1949. 45 K142
- 27456 GORHAM, J. R. Suppurative nephritis in mink. Natl. Fur News 20(11): 14. Dec. 1948. 412.628 R59
- Also in Fur Trade J. Canada 26(4): 38. Dec. 1948. 410 F965; Fur Farming J. 2(4): 16. Jan./Feb. 1949. 45 K142
- 27457 HAGEN, K. W. Chapman chinchilla research; experimental use of gonadotropic hormones. Natl. Chinchilla Breeder 4(11): 7. Jan. 1949. 412.628 N21
- 27458 HAGEN, K. W. Experimental use of gonadotropic hormones. Fur Farming J. 2(4): 12. Jan./Feb. 1949. 45 K142
- Chinchillas.
- 27459 HELGEBOSTAD, A. Survey of literature on distemper in fox and mink, with special regard to diagnosis and treatment. (In Norwegian.) Norsk Pelsdyrbibl. 22: 381-392. Dec. 20, 1948. 412.628 N812
- 27460 KEAGY, H. F. Toxoplasma in the chinchilla. Amer. Vet. Med. Assoc. J. 114(862): 15. Jan. 1949. 41.8 Am3
- T. gondii isolated from lungs and lymph tissue.
- 27461 KOCH, W. Schutz gegen staube. Deut. Pelztierzucht. 22: 228-229. Dec. 15, 1948. 412.628 D48
- Vaccination of fur animals.
- 27462 LEVINE, N. D. Eimeria and Isospora of the mink (Mustela vison). J. Parasitol. 34: 486-492. Ref. Dec. 1948. 448.8 J824
- 27463 OTT, G. L. Force-feeding the sick mink. Amer. Fur Breeder 21(8): 38. Feb. 1949. 410 Am33
- 27464 ZIESKE. Schwanznekrose beim sumpfbiber. Deut. Pelztierzucht. 22: 229-230. Dec. 15, 1948. 412.628 D48

##### Miscellaneous

- 27465 ALLNER, K. Die sumpfbiberzucht. Ed. 3. München, Bayerischer landwirtschaftsverlag, 1947. 32 p (Schriftenreihe für Pelztier- und Kleintierzüchter) 412.62 AL52
- 27466 BENESCH, W. Beaver farming. Natl. Fur News 20(11): 20, 41. Dec. 1948. 412.628 R59
- 27467 CHADDOCK, T. T. Win, lose or draw. Fur J. 15(3): 14, 22, 30; (4): 5, 9, 14. Jan.-Feb. 1949. 412.628 F969
- 27468 DESTAFFANY, L. Farming: experience important in determining quality. Fur J. 15(3): 24, 28. Jan. 1949. 412.628 F969
- 27469 FIELD, W. H. Muskrats and muskrat farming. Wis. Conserv. B. 13(8): 9-14. Aug. 1948. 279.8 W752
- 27470 GARNER, F. T. Raising South American chinchillas. VIII. Caring for newly-born chinchillas. Small Stock Mag. 33(2): 14. Feb. 1949. 48.8 P442
- 27471 GOTTBEBUT, A. H. Discussing baby chinchillas. Natl. Chinchilla Breeder 4(11): 10. Jan. 1949. 412.628 N21
- 27472 GUNN, C. K. Canada; fur-animal experimental work. Fur Trade J. Canada 26(4): 76-78, 80. Dec. 1948. 410 F965
- 27473 GUNN, C. K. Improved selection required on fox ranches. Canad. Countryman 38(2): 28-30. Jan. 22, 1949. 7 C833
- 27474 HOLMAN, R. L. Fur coat farming. Fauna [Philadelphia] 10: 122-123. Dec. 1948. 410 F27
- Minks.
- 27475 MARSH, F. R. Looking into the future. Fur J. 15(3): 11, 33. Jan. 1949. 412.628 F969
- Mink raising.
- 27476 MOORMAN, R. B. Fur on your farm. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 3(6): 11-12. Dec. 1948. 275.28 I694
- 27477 MORGAN, G. Our fur industry. Oreg. Dept. Agr. Agr. B. 160: 21-24. Dec. 1948. 2 Or3
- Fur farming industry in Oregon including farm operations.
- 27478 REICHERT, E. Der waschbär, seine zucht und haltung als edelpelzträger. München, Bayerischer landwirtschaftsverlag, 1947. 32 p. (Schriftenreihe für Pelztier- und Kleintierzüchter) 412.62 R27



- 27479 ROETHE, L. W. Comment organiser une bonne exposition de visons. *Pelletteries du Québec* 14(1): 5-6. Nov. 1948. 412.628 P36
- 27480 RUCH, L. A. H. How to tattoo chinchillas. *Natl. Chinchilla Breeder* 4(11): 6. Jan. 1949. 412.628 N21
- 27481 SCHWAB, G. R. Raising chinchillas in Canada. *Fur Trade J. Canada* 26(3): 14, 38; (4): 14, 33-34; (5): 14, 28, 30. Nov. 1948-Jan. 1949. 410 F965
- 27482 SHACKELFORD, R. M. European fur farms recovering from War's ruin. *Black Fox Mag.* 32(9): 21, 38-39, 41-42. Jan. 1949. 410 B56
- 27483 STACEY, C. The present outlook. *Fur J.* 15(3): 8. Jan. 1949. 412.628 F969
- 27484 THOMSON, J. Raising chinchillas. *Ill. Agr. Assoc. Rec.* 26(12): 30. Dec. 1948. 6 IL62
- 27485 U. S. BUR. OF ANIMAL INDUSTRY. Publications on fur farming including rabbits. *U. S. Bur. Anim. Indus. A. H. D.* 82, rev., 4 p. Jan. 1949. 1.9 An52Ah

## HORSES AND MULES

Breeds and Breeding

- 27486 ANDERSON, C. W. All Thoroughbreds. New York, Harper, 1948. 8 p. 42 An23At
- 27487 BÄWENBERG, I. The Arab in U. S. A. (In Swedish.) *Hästen* 6(9/10): 22-24. 1948. 42.8 H27
- 27488 CHAVES, L. Características del caballo de silla y de tracción. *Rev. Nac. de Agr. [Bogotá]* 41(503/504): 25-28. Mar./Apr. 1947. 9.4 R32
- 27489 CHRISTIE, W. W. Exhibition of Døle mares the fall 1948. (In Norwegian.) *Norsk Landbr.* 15(1): 10-15. Jan. 7, 1949. 11 N8122
- 27490 DELLEPIANI GALLI, A. D., and ROUMIGUIERE, F. El caballo de raza arabe. *Campo y Suelo Argentino* 32(386): 9, 55. Dec. 1948. 9 C15
- 27491 DZIEDUSZYCKI, A. Prewar horse breeding in lower Silesia. (In Polish.) *Przegl. Hodowlany* 16: 393-395. Nov./Dec. 1948. 49 P952
- 27492 ESPESO DEL POZO, G. Monografías hípicas. Los caballos eumétricos de España. II. Las razas exóticas inmigradas. *Ganadería [Madrid]* 6: 520-523. Oct. 1948. 49 G15
- 27493 ESTES, J. A., and PALMER, J. H. An introduction to the Thoroughbred horse. I-II. *Blood-Horse* 55: 232, 234, 259, 297-298. Jan. 22-Jan. 29, 1949. 42.8 T392
- 27494 FLINT, D. Quarter Horse progress. *Rec. Stockman, Ann. Ed.* 59(52): 60, 63. Dec. 23, 1948. 49 D43
- 27495 GARCÍA DE LA CONCHA. Los équidos españoles en América. II. (América del Sur) El caballo criollo en la Argentina. *Ganadería [Madrid]* 6: 366-368. July 1948. 49 G15
- 27496 THE GENERAL stud book. v. 30 (sup. 4, pt. 1), 165 p. London, Weatherby, 1948. 42.9 G28
- 27497 GOUVEIA, P. F. Horses of exotic breeds at the 15th National Livestock Show. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(337): 58. Oct. 1948. 9.2 B733
- 27498 HALL, W. T. Horse-breeding in Argentina. *Field* 193: 38-39. Jan. 8, 1949. 10 F45
- 27499 JUNQUEIRA, J. F. D. Raising mules. (In Portuguese.) *Chacaras e Quintais* 79: 75-76. Jan. 15, 1949. 9.2 C34
- 27500 KILPATRICK, J. My seventy years with Clydesdales. *Farming News & North Brit. Agr.* 100(52): 12-13; (53): 10-11; (54): 10-11. Dec. 17-Dec. 31, 1948. 10 N82
- 27501 KNOTT, J. E. Thoroughbreds must be properly registered to run on NM tracks. *N. Mex. Stockman* 14(2): 71-73. Feb. 1949. 49 N462
- 27502 KRZYSZTAŁOWICZ, A. National stud farm in Posadowo. (In Polish.) *Przegl. Hodowlany* 16: 289-292. Sept. 1948. 49 P952
- 27503 MONTEMAYOR, M. R. The Australian Thoroughbred. *Philippine Livestock Mag.* 1: 64, 66. (To be cont.) Dec. 1947. 49 P53
- 27504 NAGORE, D. La jaquilla del Pirineo Occidental elemento interesante para la colonización de los regadíos españoles. *Ganadería [Madrid]* 6: 514-516. Oct. 1948. 49 G15
- 27505 O'NEILL, M. Los elementos de una organización nacional para la crianza de caballos. *Rev. Nac. de Agr.* 42(514): 14-16. Feb. 1948. 9.4 R32
- 27506 ORENSANZ MOLINÉ, J. El ganado caballar y sus híbridos en la provincia de Valladolid. Su estado actual y orientación económico-zootécnica de su explotación. Valladolid, 1947. 68 p. 42 Or32
- Horse and mule breeding and production.
- 27507 ORR, G. M. The Tennessee Walking Horse. *Tex. Livestock J.* 7(12): 72. Dec. 15, 1948. 49 T29
- 27508 PRAWOCHENSKI, R. The inheritance capacity of the stallion and of the mare. (In Polish.) *Przegl. Hodowlany* 16: 318-320. Ref. Oct. 1948. 49 P952
- English summary.
- 27509 SETH, T. G. VON. Horse breeding in Jönköping Province 1947. (In Swedish.) *Jönköpings Läns Hushållningssällsk. Handl. och Tidskr.* 1948: 41-44. 11 J732
- 27510 SMALE, B. Quarter Horses reach new heights as stock horses in hands of ranchers. *West. Livestock J.* 26(59): 154-155, 157, 159. Oct. 15, 1948. 6 F2278
- 27511 SMITH, D. Thoroughbred temperament. *Thoroughbred Calif.* 8: 142, 210-211. Feb. 1949. 42.8 T393
- 27512 SOCIEDAD RURAL ARGENTINA. Registro genealógico para la Raza Criolla. v. 2 del Nuevo registro selectivo y genealógico, 1941/1947. Buenos Aires, 1948. 229 p. 42.9 So14
- 27513 SOSNOWSKI, A. The Gudbrandsdale Horse. (In Polish.) *Przegl. Hodowlany* 16: 320-326. Oct. 1948. 49 P952
- 27514 TAYLOR, L. Planned programs and sound judgment are necessary in the horse business. *West. Livestock J.* 27(6): 138, 140-141. Dec. 15, 1948. 6 F2278
- 27515 THOROUGHBRED BREEDERS' ASSOCIATION. Statistical abstract, 1948. London, 1948. 112 p. 42.9 T395
- 27516 TIERSTEIN, V. Problems of breeding horses by artificial insemination. *West. Livestock J.* 26(59): 160-162. Oct. 15, 1948. 6 F2278
- 27517 TOWARZYSTWO HODOWLI KONIA ARABSKIEGO. Polska księga stadna koni Arabskich czystej krwi. [Polish stud book of pure blood Arabian horses]. Kraków, 1948. v. 3, 143 p. 42.9 T65
- 27518 VESEY-FITZGERALD, B. Horse-breeding in Britain; increasing interest being shown throughout the country. *Straight Furrow* 8(1): 17-18. Nov. 1948. 281.8 St8
- 27519 WILDES, T. B. Sicilian donkeys. *Vt. Horse & Bridle Trail* B. 13(1): 11. Jan. 1949. 42.8 V59

Feeds and Feeding

- 27520 ASHTON, G. C. Vitamins in feed; some factual information concerning requirements in the development of the horse. *Milling & Feed* 30(1): 13, 71, 73. Jan. 1949. 298.8 C162
- 27521 KÖRPRICH, H. Die umstellung in der pferdefütterung; von hafer auf wirtschaftseigene futterstoffe in landwirtschaftlichen betrieben. *Saat u. Ernte* 3(11): 3, 4. Nov. 1948. 18 Sa12
- Germany.
- 27522 PRESTHEGGE, K. The feeding of horses this winter. (In Norwegian.) *Norsk Landbr.* 14: 464-466. Dec. 17, 1948. 11 N8122

Veterinary Medicine

- 27523 ARNOLD, E. Die pflege der fohlenhufe. *Saat u. Ernte* 3(11): 8. Nov. 1948. 18 Sa12
- 27524 AUCHTERLONIE, L. Use of barium chloride intravenously in the horse. *Vet. Rec.* 61: 53. Jan. 29, 1949. 41.8 V641
- Treatment for colic.
- 27525 BASSET, J. Vaccins anti-aphteux; à propos du "vaccin" Belin. *Acad. Vét. de France. B.* 21: 323-332. Oct. 1948. 41.9 R24
- 27526 BELTRÁN MONFERRER, J. M. La juventud, la edad adulta y la vejez en los équidos. *B. de Divulg. Ganad. [Valladolid]* 5(19): 12-19. Sept. 1948. 49.9 Sp12
- 27527 BHUVARAHACHARI, K. S. Penicillin in joint ill [of foals]. *Indian Vet. J.* 25: 165. Nov. 1948. 41.8 In2
- 27528 BREUER, G. Idiopathische kreuzlähme bei pferden. *Tierärztl. Umschau* 3: 167-170. June 1948. 41.8 T445
- 27529 BRUNER, D. W., EDWARDS, P. R., and DOLL, E. R. Passive immunity in the newborn foal. *Cornell Vet.* 38: 363-366. Oct. 1948. 41.8 C81



- 27530 BUCY, C. B. Actinobacillosis in a mare. *Tex. Vet. B.* 10(10): 3. Oct. 1948. 41.8 T31
- 27531 BUDZYNSKI, J. A successful operation on a completely lacerated womb in a mare. (In Polish.) *Med. Wet.* 4(11): 716-718. Nov. 1948. 41.8 M463  
English summary.
- 27532 CANESTRARI, G. A foal born via the anal opening. (In Italian.) *Clin. Vet. [Milan]* 71: 364-365. Nov. 1948. 41.8 C61
- 27533 CASTAÑEDO, J. A. Mataduras del lomo en los caballos (su tratamiento). *Tierra Libre* 13(2): 6. Feb. 1949. 8 T443  
Saddle sores.
- 27534 CHARITAT. Accident en cours d'essai d'un cheval. *Rustica* 22: 8. Jan. 2, 1949. 14 R92  
Legal aspects of responsibility, in France.
- 27535 CHWALIBOG, J., and LETKI, J. The new "Delbetowet" vaccine. (In Polish.) *Med. Wet.* 4(11): 713-714. Nov. 1948. 41.8 M463  
English summary.  
In the treatment of wounds in horses.
- 27536 CHWOJNOWSKI, A. Most common defects of the teeth in the horse. (In Polish.) *Med. Wet.* 4(11): 709-713. Nov. 1948. 41.8 M463  
English summary.
- 27537 COLLET, P., and PERES, G. Variations du taux du calcium sanguin après section du sympathique cervical chez le cheval. *Soc. de Biol. Compt. Rend.* 142: 1113-1115. Sept. 1948. 442.9 P21
- 27538 CROSFIELD, P. Treatment of localised laminitis [in a mare] with penicillin. *Vet. Rec.* 61: 53. Jan. 29, 1949. 41.8 V641
- 27539 DEMICHELIS, L. A. Papera de los caballos (adenitis infecciosa). *Rev. Mens. B. A. P.* 31(369): 30-31. Aug. 1948. 9 R326
- 27540 DIMOCK, W. W. The two-gram daily dose of phenothiazine for strongylosis of the horse. *Vet. Med.* 44: 99-102. Mar. 1949. 41.8 M69
- 27541 DOLL, E. R., and WALLACE, M. E. The serum level response of horses to aqueous solutions of penicillin. *Vet. Med.* 44(1): 34-38. Jan. 1949. 41.8 M69
- 27542 DOMANSKI, A. J., and PRAWOCHENSKI, R. T. Dun coat color in horses. *J. Hered.* 39: 367-370. Dec. 1948. 442.8 Am3
- 27543 ESPOUY, F. L'inappetence chez le cheval. *Acclimatation* 76: 18. Jan. 22, 1949. 14 Ac2
- 27544 FARQUHARSON, J., and NYE, E. L. Fractures of the bones of the equine foot. *Horse* 30(1): 8-10. Jan./Feb. 1949. 42.8 R28
- 27545 FERGUSON, T. H., and FERGUSON, S. E. Bowel perforation through umbilical hernia [in a foal]. *North Amer. Vet.* 29: 704. Nov. 1948. 41.8 N812
- 27546 FETHERS, G. Lameness in horses. II-III. *Past. Rev.* 58: 1055-1056, 1165-1166. Nov.-Dec. 1948. 23 Au75
- 27547 FULLER, D. Purpura hemorrhagica [in a horse]. *Vet. Student* 11(1): 34. Winter 1949. 41.8 V6425
- 27548 GASPERI, E. C. Algunas enfermedades parasitarias internas de los equinos. *Rev. Nac. de Agr. [Bogotá]* 41(503/504): 16-21. Mar./Apr. 1947. 9.4 R32
- 27549 GONZÁLEZ CUBILLO, J. El cólico en los équidos. *Cult. Mod.* 31: 326-327. Sept. 1948. 15 C89
- 27550 HAAR, R. TER. Les maladies de la chèvre. *Élevages Mod.* 1948: 195, 197. Dec. 1948. 49 EL22
- 27551 HACECKY, R. M. Exostosis of the mandible [in a stallion]. *Vet. Student* 11(1): 32-33. Winter 1949. 41.8 V6425
- 27552 HANCOCK, J. L. Notes on oestrus, ovulation and pregnancy in the mare. *Vet. Rec.* 60: 679-682. Ref. Dec. 25, 1948. 41.8 V641
- 27553 IRIMINOIU, G. Méningo-encéphalomyélite enzootique du cheval en Roumanie. *Off. Internat. des Épizoot.* B. 29: 293-298. July/Aug. 1948. 41.8 Of2
- 27554 KESTEN, S. H. Tuberculosis in a mule. *Canad. J. Compar. Med.* 13(1): 29. Jan. 1949. 41.8 C162
- 27555 KLYNE, W., and others. The steroids of pregnant mares' urine. 1-3. *Biochem. J.* 43: 231-234, 611-616. Ref. 1948. 382 B52  
B. Schachter, G. F. Marrian, and J. Y. F. Paterson, joint authors.
- 27556 LANCIEN, A. Barrage de la "seime" du cheval. *Monit. de la Mécanique Rur.* 41: 191. (Cont.) June 1948. 58.8 M74
- 27557 LARRIVA, R. DE. Estudio del caballo. Enfermedades contagiosas. *Nuestros Amigos* 5(53): 19; (54): 21. Oct.-Nov. 1948. 48.8 N88
- 27558 LEMETAYER, E., and others. Le pouls et les mouvements respiratoires dans l'anémie infectieuse des équidés. *Rec. de Méd. Vét.* 124: 503-507. Ref. Nov. 1948. 41.8 R24  
L. Nicol, O. Girard, and R. Corvazier, joint authors.
- 27559 MACKOWIAK, C. Serological reaction in the diagnosis of dourine. (In Polish.) *Med. Wet.* 4(11): 689-690. Nov. 1948. 41.8 M463  
English summary.
- 27560 MARTI MORERA, A. Indigestión en los équidos. *Barcelona*, 1947. 25 p. 41 M369
- 27561 NEUMAN, A. Sequestrum of the mandible [in a horse]. *Vet. Student* 11(1): 33. Winter 1949. 41.8 V6425
- 27562 OLSON, C., JR. Equine sarcoid, a cutaneous neoplasm. *Amer. J. Vet. Res.* 9: 333-341. Ref. Oct. 1948. 41.8 Am3A
- 27563 ORLIACO, C. El tétano en los equinos. *Rev. Ganad. [Habana]* 8(12): 17-18. Dec. 1948. 49 R321
- 27564 POTTER, H. R. Tuberculosis in a horse. *Canad. J. Compar. Med.* 12: 334-336. Dec. 1948. 41.8 C162
- 27565 PUGET, E., and BROQUA, M. Abscess intra-musculaire du creux du flanc chez un cheval; complications graves - pénicillinothérapie - guérison. *Rev. de Méd. Vét. [Toulouse]* 99: 433-441. Ref. Oct. 1948. 41.8 R32
- 27566 PUGET, E., BAUDÉAN, E., and DELCASSÉ, H. Erysipèle et stomatite érysipélateuse chez le cheval; sulfamidothérapie - pénicillinothérapie. *Rev. de Méd. Vét. [Toulouse]* 99: 531-541. Ref. Dec. 1948. 41.8 R32
- 27567 RATH, E. Cojera de los caballos. *Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad.* 2(6): 48-49. Sept. 1948. 49.9 P433
- 27568 RICHARDSON, D. A. Strangles in horses. *Tasmanian J. Agr.* 19: 194-196. Nov. 1948. 23 T182T
- 27569 RICHMAN, H. Histoplasmosis in a colt. *North Amer. Vet.* 29: 710. Nov. 1948. 41.8 N812
- 27570 SANDERSON, C. J. Parasitic worms in the horse. *Land [Sydney]* 1944, i. e., 1934: 23; 1945, i. e., 1935: 18. Nov. 26-Dec. 3, 1948. 23 L22
- 27571 SEIFERLE, E. Über geirnkrankeiten des pferdes und einen versuch zu ihrer neurologisch-psychologischen auswertung. *Schweiz. Arch. f. Tierheilk.* 90: 695-727. (Concl.) Ref. Dec. 1948. 41.8 Sch9
- 27572 SIEDLANOWSKA, J. A contribution to the study of the action of "Delbetin." (In Polish.) *Med. Wet.* 4(11): 714-716. Nov. 1948. 41.8 M463  
English summary.  
Observations on horses treated with this vaccine.
- 27573 SIEKA, M. A case of traumatic angina in a horse. (In Polish.) *Med. Wet.* 4(11): 718. Nov. 1948. 41.8 M463  
English summary.
- 27574 SOUPRE, P. Quelques soins pratiques a donner par l'éleveur après un accouchement. *Rev. Agr. de l'île Réunion* 48: 249-250. (To be cont.) July/Aug. 1948. 25 R32  
Care of horses and cattle.
- 27575 STENGEL, C. H. Early diagnosis of pregnancy in the mare. *Amer. Vet. Med. Assoc. J.* 114: 67. Feb. 1949. 41.8 Am3
- 27576 STRANDBERG, A. The asymmetry of the horse. (In Swedish.) *Hästen* 6(9/10): 30-31. 1948. 42.8 H27
- 27577 STURA, C. A. Métodos directos de laboratorio aplicados al diagnóstico diferencial y pronóstico del mal de caderas. *Gac. Vet.* 10: 214-232. (Concl.) Sept./Oct. 1948. 41.8 G112  
Horses.
- 27578 TABARELLI NETO, J. F. The reaction of the male toad to pregnant mare's serum and its comparative study with the Cole-Hart test. *Amer. J. Vet. Res.* 10 (34): 74-76. Jan. 1949. 41.8 Am3A
- 27579 TAGLE, E. C. Como reconocer prácticamente la edad en el caballo. *Argentina. Dir. de Inform. P. Misc.* 285, 7 p. 1948. 9 P943  
Telling age of horse by teeth.
- 27580 TIERSTEIN, V. Foaling time—plan and be prepared for the arrival of your broodmare's new star boarder. *West. Livestock J.* 27(6): 148-151. Dec. 15, 1948. 6 F2278



- 27581 TUFF, P. Hereditary character of diseases of the toe joints, bones and ligaments of the horse. (In Norwegian.) Norsk Vet. Tidsskr. 60: 385-397. Nov. 1948. 41.8 N81
- 27582 VAGNI, O. Resultados de las experiencias realizadas en el Lazareto Veterinario N.º 1 sobre "linfangitis ulcerosa." Rev. de Med. Vet. [Buenos Aires] 30: 86-99. Apr./June 1948. 41.8 B86

#### Miscellaneous

- 27583 BARRAMDEGUY, E. A. Breves referencias sobre tecnología equina. Campo y Suelo Argentino 32 (386): 16-17. Dec. 1948. 9 C15
- 27584 CLAVÉ, H. Précieux services de l'âne dans une petite exploitation. Rustica 22: 63. Jan. 23, 1949. 14 R92
- 27585 DAINGERFIELD, K., JR. Training for fun (and profit, maybe). Ed. 3. Lexington, Ky., Thoroughbred Rec. Co., 1948. 230 p. 42 D14
- 27586 EDWARDS, L. Pack-horses and pack-ways. Country Life [London] 105: 250-251. Feb. 4, 1949. 80 C83
- 27587 ETHERINGTON, M. G. Future of Exmoor ponies; effect of meat shortage on the native breed. Field 193: 47. Jan. 8, 1949. 10 F45
- 27588 FOREMAN, M. Horse handling science. IX. Cattleman 35(9): 48, 98-99. Feb. 1949. 49 C29
- 27589 GOBERT, J., and CAGNY, P. La cría del pura sangre. Nuestros Amigos 5(52): 16, 40; (53): 18; (54): 20-21, 40. Sept.-Nov. 1948. 48.8 N88
- Horses.
- 27590 HROBONI, Z. State stallion depot in Drogo-mysl. (In Polish.) Przegl. Hodowlany 16: 292-296. Sept. 1948. 49 P952
- 27591 KORFF, R. E. Wie und wann entstand das pferd? Deut. Viehhandel 3(23): 10-11. 1948. 49 D482
- 27592 LARRIVA, R. DE. El castigo en los asombros. Nuestros Amigos 5(55): 17-18. Dec. 1948. 48.8 N88
- Fright in horses.
- 27593 LUNA DE LA FUENTE, C. Origen del caballo peruano. Peru. Dir. de Ganad. Ganad. 2(5): 9-13. June 1948. 49.9 P433
- 27594 MACGREGOR, H. D. El ganado equino en la Argentina; orientación zootécnica a seguir. Argentina. Dir. de Inform. P. Misc. 284, 13 p. 1948. 9 P943
- 27595 MOON, I. The horse's role in history. I. Natl. Horseman 85(1): 10, 61. Jan. 1949. 42.8 N21
- 27596 PRUSKI, W. Historical review of the hippological press in France, Germany, Austria, Poland and U. S. S. R. (In Polish.) Przegl. Hodowlany 16: 326-327; 396-401. Oct.-Nov./Dec. 1948. 49 P952
- 27597 SHATALOV, P. I. Kovka loshadei [Horse-shoeing]. Sverdlovsk, Sverdlovskoe Obl. Gos. Izd-vo, 1947. 98 p. 42 Sh25
- 27598 SKORKOWSKI, E. Stud farms of the Kracow District. (In Polish.) Przegl. Hodowlany 16: 387-391. Nov./Dec. 1948. 49 P952
- 27599 WILLIAMSON, J. Equine photography—good pictures require careful planning by owner as well as top-notch cameraman. West. Livestock J. 27(6): 144, 146. Dec. 15, 1948. 6 F2278
- 27600 ZABOKLICKI, Z. Some remarks on the Icelandic horse. (In Polish.) Przegl. Hodowlany 16: 391-393. Nov./Dec. 1948. 49 P952

#### LABORATORY ANIMALS, SMALL

##### Breeds and Breeding

- 27601 WATSON, A. Cavies. A good Abyssinian cannot be a bad colour. Fur & Feather 111: 669. Dec. 31, 1948. 49 F96

##### Veterinary Medicine

- 27602 LARSH, J. E., JR., and GRAVATT, M. S. A comparative study of the susceptibility of guinea pigs and hamsters to an infection with pig Ascaris [A. lumbricoides suum]. Elisha Mitchell Sci. Soc. J. 64: 192-195. Dec. 1948. 500 EL4
- 27603 LOVE, J. E. Bleeding of cavies. Calif. Rabbits Mag. 12(7): 7, 21. Feb. 1949. 40.28 Sa5
- 27604 REAGAN, R. L., and others. Electron micrographs of the hamster-adapted Newcastle virus. Cornell Vet. 38: 418-420. Oct. 1948. 41.8 C81
- M. G. Lillie, J. E. Hauser, and A. L. Brueckner, joint authors.

#### Miscellaneous

- 27605 EATON, O. N. Hamster raising. U. S. D. A. Leaflet 250, 6 p. 1949. 1 Ag84L
- 27606 MARSH, A. F. Hamsters—winter housing and hibernation. Fur Farming J. 2(4): 18. Jan./Feb. 1949. 45 K142
- 27607 STUART, F. C. Keeping cavies happy and healthy. Calif. Rabbits Mag. 12(7): 7, 11, 21. Feb. 1949. 40.28 Sa5
- 27608 UNIVERSITIES' FEDERATION FOR ANIMAL WELFARE. The UFAW handbook on the care and management of laboratory animals. With an appendix on statistical analysis. Ed. by A. N. Worder. London, Baillière, Tindall and Cox, 1947. 368 p. 411 Un33

#### POULTRY

##### Breeds and Breeding

- 27609 ALEXANDER, A. K. S. Breeding [poultry] on a general farm. Farmer & Stock-Breeder 62: 3027. Dec. 28, 1948. 10 F228
- 27610 AMSDEN, J. Breeding systems past and present. 3. Mod. Poultry Keeping 60(1): 14-15. Jan. 5, 1949. 47.8 Eg3
- 27611 ATKINS, H. "Mongrelized" flocks hurt industry; cross-bred fowls are ruining both the fine egg and the good meat market. Amer. Poultryman 12(2): 6. Jan. 1949. 47.8 So86
- 27612 BECKER, A. Schwarze zwerg-Wyandotten in gegenwart und zukunft. Kleintier-Zücht. Tierbörse 3 (46): 4-5; (47): 3. Oct. 25-Nov. 10, 1948. 49 K672
- Germany.
- 27613 BENEY, P. A. What is sex-linkage? Poultry World 84: 11. Jan. 7, 1949. 47.8 P8682
- 27614 BENTLEY, J. Largest Game birds are not always the best, English writer believes. Grit & Steel 50(9): 64. Jan. 1949. 47.8 G88
- 27615 BERG, L. R. Improving shell strength through breeding. Pacific Poultryman 53(2): 10, 50-51. Feb. 1949. 47.8 P112
- 27616 BERNIER, P. E. Breeding for improvement of egg production. Eggsaminer 26(1): 2, 11. Jan. 1949. 286.85 Eg32
- 27617 BROWN, T. T. Which breed of poultry is best? South. Planter 110: 48, 49. Jan. 1949. 6 So89
- 27618 BRUCE, W. H. New breeds for Australia. Poultry Farmer [Sydney] 16(22): 5-6. Nov. 27, 1948. 280.28 O132
- 27619 CZAJA, M. Investigations on the usefulness of the Green-Legged breed of hens. (In Polish.) Przegl. Hodowlany 16: 273-286. Ref. Sept. 1948. 49 P952
- English summary.
- 27620 DAVIN, J. A. Sketches of shortfaced breeds; the Oriental Frill. Amer. Pigeon J. 38: 4-6. Jan. 1949. 47.8 Am35
- 27621 DOMINGUES, O. A false belief among cock-raisers. (In Portuguese.) Campo [Rio de Janeiro] 19 (225/226): 18. Sept./Oct. 1948. 9.2 C15
- On inheritance of characteristics of game-cocks.
- 27622 DREWRY, D. Ducks for eggs and the table. Mod. Poultry Keeping 59: 671. Dec. 29, 1948. 47.8 Eg3
- Breeds.
- 27623 FAWCETT, J. A. Success with flock mating. Mod. Poultry Keeping 59: 672. Dec. 29, 1948. 47.8 Eg3
- 27624 FONTES VEIGA, T. Elección de parejas para la cría. Cult. Mod. 31: 329. Sept. 1948. 15 C89
- Doves.
- 27625 FUCHS, F. W. Racing Homer hash. All-Pets Mag. 20(2): 56, 59. Feb. 1949. 48.8 AL5
- 27626 GARCÍA LLORENS, F. Rhode Island Red (Colorada). Buenos Aires. Dir. Med. Vet. B. 5(23/26): 36-38. 1948. 41.9 B865
- 27627 GLÄZER, R. Die Eistaube. Kleintier-Zücht. Tierbörse 3(47): 5. Nov. 10, 1948. 49 K672
- 27628 GRATON, A. L'hybridité en aviculture. B. des Agr. 45(1): 45. Jan. 1949. 7 B872
- 27629 GUÉRANDE, C. Hérité et sélection [poultry]. Rustica 22: 23. Jan. 9, 1949. 14 R92
- GÜNTHER, H. Singe, wem gesang gegeben. r-Zücht. Tierbörse 3(46): 2. Oct. 25, 1948. 27.72
- On breeding Minorcas.



- 27631 HANNAS, R. R. Experimental farm [of DeKalb Agricultural Association] tests breeding. *Amer. Poultry J.* 79(12): 3, 16. Dec. 1948. 47.8 Am32
- 27632 HARDY, E. Secretos de las palomas mensajeras de Bélgica. *Nuestros Amigos* 5(52): 18-20. Sept. 1948. 48.8 N88
- 27633 HEALE, W. Buff Orpingtons are easy to rear. *Poultry Farmer* [London] 120(3107): 9. Jan. 21, 1949. 47.8 F312
- 27634 HILL, E. M. Suggestions to the novice. *Bantam Mag.* 8(6): 10. Jan. 1949. 47.8 B22
- 27635 HUMBERT, W. Aviculture; le contrôle du sexe à l'éclosion et dans l'œuf. *Acclimatation* 75: 263. Dec. 11, 1948. 14 Ac2
- 27636 HURFORD, C. These will produce eggs. *Poultry Farmer* [London] 120(3107): 8. Jan. 21, 1949. 47.8 F312
- Best breeds.
- 27637 JULL, M. A. Increasing efficiency of poultry production. *Md. Farmer* 33: 14-15. Jan. 1949. 6 M362
- Chiefly breeding and feeding.
- 27638 JULL, M. A. Mate turkey breeders immediately. *South. Planter* 110: 54, 55. Jan. 1949. 6 So89
- 27639 KAISER, P. Description of the German Helmet. *Amer. Pigeon J.* 38: 9. Jan. 1949. 47.8 Am35
- 27640 KAUDER, I. Extra dollars in your chicks. *Rural New-Yorker* 98: 674. Nov. 6, 1948. 6 R88
- Pedigree breeding.
- 27641 KENNERLY, A. B. What about inbred hybrids? *Farm & Ranch* 68: 10-11. Jan. 1949. 6 T31
- Poultry.
- 27642 KINSKY, F. GRAF. Strassertauben. *Österr. Kleintierzüchter* 1948: 488. Dec. 1948. 49 Os7
- 27643 KLEIN, G. T. Mount Norwottuck Poultry Farm. *New England Homestead* 122: 5, 10. Jan. 8, 1949. 6 N442
- Poultry genetics.
- 27644 LLOYD-THOMAS, W. All quiet in goose pens: good relations essential with flock matings. *Mod. Poultry Keeping* 60: 119. Feb. 2, 1949. 47.8 Eg3
- 27645 LOOMIS, A. P., and COOMBS, E. Breeders have variety of reasons for their preference for either purebred or hybrid type poultry. *Poultry Supply Dealer* 26(1): 14-15, 22-23, 33. Jan. 1949. 47.8 B11
- Purebred stock shows up to advantage in field comparisons with commercial hybrids, by A. P. Loomis, p. 14, 22-23. Inbred cross method of breeding to open vast new possibilities for poultry industry, by E. Coombs, p. 15, 33.
- 27646 MACKLIN, H. P. Pigeon portraits; the Trumpeter. *Amer. Pigeon J.* 38: 2-3, 6-7. (To be cont.) Jan. 1949. 47.8 Am35
- 27647 MONCRIEF, T. E. Streamlining poultry breeding. Breeders are turning to new methods and equipment so as to trapnest more birds and get more records on a family basis. *Everybody's Poultry Mag.* 54(2): 10, 28-30, 32. Feb. 1949. 47.8 F213P
- 27648 MOORE, A. C. Fertility should be at least 90 per cent. *Poultry* [London] 104: 68. Jan. 25, 1949. 47.8 P869
- 27649 MOORE, F. Day to day experiences of the turkey breeder. *Turkey World* 24(2): 58-60. Feb. 1949. 47.38 T84
- 27650 MOORE, F. E. The National Turkey Improvement Plan from the breeder's viewpoint. *In U. S. Bur. Anim. Indus. Anim. Husb. Div. Natl. Plans Conf.* 1948: 39-47. June 1948. 1.972 A3R295
- 27651 MORRISON, J., and HALE, R. W. Progress in poultry breeding at the Northern Ireland Agricultural Research Institute. *World's Poultry Sci. J.* 4: 255-260. Oct./Dec. 1948. 47.9 W89
- 27652 MUELLER, C. D. Artificial insemination for progeny-test breeding in poultry. *Poultry Sci.* 28(1): 143-145. Jan. 1949. 47.8 Am33P
- 27653 NAF, A. Die Faverolles in Luzern. *Ge-flügelhof* 12: 21. Jan. 14, 1949. 47.8 G276
- 27654 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Breeding better layers. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 261-264. Jan. 1949. 256.13 Ag82M
- 27655 PEELE, F. E. Success with turkey matings. *Mod. Poultry Keeping* 60: 97. Jan. 26, 1949. 47.8 Eg3
- 27656 PEROTTI, R. M. Formacion y manejo del plantel reproductor. *Pampa Argentina* 22(255): 10. Nov. 1948. 9 P19
- Poultry.
- 27657 POULTON, R. W. Hybrid hens. *Breeder's Gaz.* 114(2): 20-21, 42-43, 45. Feb. 1949. 49 B74
- 27658 POWELL-OWEN, W. Are they worth trapping? Recorded pullets should by now be reflecting the value of last season's matings and offer valuable hints about next year's offspring. *Poultry World* 83: 471. Dec. 31, 1948. 47.8 P8682
- 27659 POWELL-OWEN, W. Basis of stock improvement. *Poultry World* 84: 27. Jan. 14, 1949. 47.8 P8682
- 27660 PRETI, D. F. La explotación de la raza Sussex Armiñada en la Provincia de Córdoba. *Campo y Suelo Argentino* 32(386): 36-37. Dec. 1948. 9 C15
- 27661 RADFORD, F. W. A Bantam potpourri. *All-Pets Mag.* 20(2): 53, 54. Feb. 1949. 48.8 AL5
- 27662 SCHNETZLER, E. E. Hybrid poultry breeding a complex undertaking. *Poultry Supply Dealer* 26(1): 24-25. Jan. 1949. 47.8 B11
- 27663 SILK, W. H. Variations in Belgians; in their country of origin there are considerable differences in standard requirements. *Poultry World* 84: 28. Jan. 14, 1949. 47.8 P8682
- Belgian bearded Bantams: Barbu d'Anvers and Barbu d'Uccle.
- 27664 SIMONPIETRI, R. H. Inseminación artificial en las aves. *Chacra* 19(219): 50-51, 90. Jan. 1949. 9 C34
- 27665 SMALL, J. Why make a change? If you succeed with one breed, don't be in a hurry to try another. *Poultry World* 84: 61. Jan. 28, 1949. 47.8 P8682
- 27666 SMITH, G. Y. Smith discusses colors, ear lobe and size of Game fowl. *Grit & Steel* 50(9): 61-62. Jan. 1949. 47.8 G88
- 27667 SPRUIJT, C. A. M. De Gentsche Kropper [The Ghent Pouter]. (In Dutch.) *Doetinchem, Misset, n. d.* 45 p. 47.2 Sp8G
- 27668 STRANSKY, N. Die Deutschen zwerge. *Österr. Kleintierzüchter* 1948: 484-485. Dec. 1948. 49 Os7
- 27669 STRATTON, A. J. The African Owl—a true champion. *Amer. Pigeon J.* 38: 10-11. Jan. 1949. 47.8 Am35
- 27670 TINDALL, C. Just what are they, and what can you expect of hybrid chicks? *Kans. Farmer* 85(21): 4, 26. Nov. 6, 1948. 6 K13
- 27671 VAITSMAN, J. How to caponize without castrating young cocks. (In Portuguese.) *Campo* [Rio de Janeiro] 19(225/226): 7-8. Sept./Oct. 1948. 9.2 C15
- Injection of stilbestrol.
- 27672 VIEIRA, A. Raising game cocks in Pernambuco. (In Portuguese.) *Chacaras e Quintais* 79: 38. Jan. 15, 1949. 9.2 C34
- 27673 VONDELL, J. H. Steps in pedigreeing. *Everybody's Poultry Mag.* 54(2): 12. Feb. 1949. 47.8 F213P
- 27674 WANG, H. Modulation of tract specificity by estrogenic hormone in experimentally produced feather-chimaerae of brown Leghorn capons. *J. Expt. Zool.* 109: 451-493. Ref. Dec. 1948. 410 J825
- 27675 WILLIES, J. S. Foundation of successful poultry breeding. *Farmer's Weekly* [Bloemfontein] 76: 46-47, 49. Dec. 15, 1948. 24 F225
- 27676 WUNDERLICH, J. Bantam future. *Bantam Mag.* 8(6): 4-5. Jan. 1949. 47.8 B22

#### Feeds and Feeding

- 27677 BANKS, L. E. Do they get enough to eat? *Poultry Farmer* [London] 120(3107): 11. Jan. 21, 1949. 47.8 F312
- 27678 BAXTER, J. H. Pellets and peas on a basis you can afford. *Amer. Pigeon J.* 38: 10. Jan. 1949. 47.8 Am35
- As pigeon feed.
- 27679 BENNION, N. L. Feed and care of turkey breeding flocks. *Norbest Turkey News* 13(6): 4-5. Dec. 1948. 47.38 N75
- 27680 BLAKELY, R. M. The effect of the granulation of single cereal grains on the incidence of pressure necrosis in poult starter mashers. *Sci. Agr.* 28: 554-557. Dec. 1948. 7 Sci2



- 27681 BLOUNT, W. P. Capettes for poultry. *Mod. Poultry Keeping* 60: 119. Feb. 2, 1949. 47.8 Eg3  
Hormone pellets aid in fattening.
- 27682 BLOUNT, W. P. Poultry grit requirements; relationship between grit and digestive disorders. *Scot. Farmer* 56: 1114. Sept. 4, 1948. 10 Sco8
- 27683 BRIGGS, G. M. New horizons in poultry nutrition. *Feed Bag* 25(1): 15, 66. Jan. 1949. 389.78 F32
- 27684 BRIGGS, G. M. Trace elements in poultry nutrition. *Feedstuffs* 21(6): 40-42, 44-45. Feb. 5, 1949. 286.81 F322
- 27685 BUTTNER, E. E. The role of peas in a pigeon diet. *All-Pets Mag.* 20: 59, 61. Jan. 1949. 48.8 AL5
- 27686 CAPPER, A. Dry mash spreads disease. *Poultry Farmer [London]* 120(3105): 8. Jan. 7, 1949. 47.8 F312  
Lack of nutritive value.
- 27687 CLANDINN, D. R. The effects of methods of processing on the nutritive value of herring meals. *Poultry Sci.* 28(1): 128-133. Jan. 1949. 47.8 Am33P
- 27688 COLES, R. The "new look" in poultry feeding. *Mod. Poultry Keeping* 60: 63. Jan. 19, 1949. 47.8 Eg3
- 27689 DIAMOND, W. T. Feed Survey Committee forecasts 16% more chickens to feed. Bountiful feed supplies challenge productive capacity of livestock industry. *Hatchery & Feed* 23(1): 18, 20. Jan. 1949. 47.8 H28
- 27690 ECHARRI LOIDI, J. M. La alimentación en avicultura. *Agricultura [Madrid]* 17: 456-460. Oct. 1948. 15 Ag84
- 27691 ESLAVA, G. The Malacañan Poultry Project local mixture of feed. *Philippine Livestock Mag.* 1: 167-168, 183. Sept. 1948. 49 P53
- 27692 FANGAUF, R. Geflügelfütterung. Ed. 3. Stuttgart, Ulmer, 1947. 90 p. (Geflügelzucht-Bücherei. 3) 47 F21
- 27693 GERRY, R. W., and others. Raw rock phosphate in laying rations. *Poultry Sci.* 28(1): 19-23. Ref. Jan. 1949. 47.8 Am33P  
C. W. Carrick, R. E. Roberts, and S. M. Hauge, joint authors.
- 27694 GILLIS, M. B. The importance of nonphytin phosphorus for the chick. *Feedstuffs* 21(7): 19-20, 64. Feb. 12, 1949. 286.81 F322
- 27695 GILMORE, L. N. How poultry feeds are changing. During the last two or three years, low fiber, high energy diets have come into great favor, primarily among broiler growers. *Poultry Tribune* 55(2): 11, 20, 22-23. Feb. 1949. 47.8 P8642
- 27696 GRAU, C. R. Amino acid problems of poultry nutrition. *Feedstuffs* 21(6): 17-21. Feb. 5, 1949. 286.81 F322
- 27697 HALL, M. D., and CLARK, A. G. Poultry feeding tests, 1947-48. *Victoria. Dept. Agr. J.* 46: 412-414. Sept. 1948. 23 V66J
- 27698 HANNAS, R. R. Farm tests milk product. *Amer. Poultry J.* 80(1): 3, 43-44. Jan. 1949. 47.8 Am32
- 27699 HEGSTED, D. M. Activity of pantothenol as pantothenic acid in promoting chick growth. *Soc. Expt. Biol. & Med. Proc.* 69: 571-572. Dec. 1948. 442.9 Sol
- 27700 HOLMES, G. Crops to provide half the poultry rations. *Mod. Poultry Keeping* 60: 98-99. Jan. 26, 1949. 47.8 Eg3
- 27701 KLEIN, G. T. Feed saving methods with broilers. *Amer. Poultry J.* 80(1): 16, 28-29. Jan. 1949. 47.8 Am32
- 27702 LASSEN, S., BACON, E. K., and DUNN, H. J. The relationship of nutritive value of condensed fish solubles to quality of raw material. *Poultry Sci.* 28(1): 134-140. Ref. Jan. 1949. 47.8 Am33P
- 27703 LAUXMANN KINZELMANN, L. Der auslauf des geflügels. *Saat u. Ernte* 3(11): 8. Nov. 1948. 18 Sa12
- 27704 LEE, C. E. Does it pay to feed grain free choice? *Everybody's Poultry Mag.* 54(2): 13, 40-41. Feb. 1949. 47.8 F213P
- 27705 LEE, C. E., SCHOLLES, J. C., and HENRY, C. L. The effect of "free choice" grain feeding on egg production and feed consumption. *Poultry Sci.* 28(1): 10-13. Jan. 1949. 47.8 Am33P
- 27706 LEE, C. E. Poultry nutrition. *Canad. Poultry Rev.* 73(2): 7-8, 23-26, 28-29. Feb. 1949. 47.8 C16
- 27707 LILLIE, R. J., and BIRD, H. R. A breed difference in feather pigmentation of vitamin D deficient chicks. *Poultry Sci.* 28(1): 140-142. Jan. 1949. 47.8 Am33P
- 27708 LLOYD, M. D., REED, C. A., and FRITZ, J. C. Experiences with high protein diets for chicks and poults. *Poultry Sci.* 28(1): 69-74. Jan. 1949. 47.8 Am33P
- 27709 MCCLYMONT, G. L., and HART, L. Green feed—its value and replacement in breeding, growing and laying poultry ration. *Farmer & Dairyman* 40(512, 1. e., 502): 22. Nov. 1948. 23 F225
- 27710 MCGINNIS, J. Developments in chicken and turkey rations. (Abs.) *Feedstuffs* 21(6): 28-30. Feb. 5, 1949. 286.81 F322
- 27711 MCGINNIS, J. Utilization of yeast in poultry diets. *Amer. Miller & Processor* 77(1): 175. Jan. 1949. 298.8 Am32
- 27712 MISHLER, D. H., CARRICK, C. W., and HAUGE, S. M. Melhionine, choline, betaine and fish products in a simplified ration. *Poultry Sci.* 28(1): 24-30. Ref. Jan. 1949. 47.8 Am33P
- 27713 MOREHOUSE, N. F. Water consumption in growing turkeys. *Poultry Sci.* 28(1): 152-153. Jan. 1949. 47.8 Am33P
- 27714 MOSS, K. Permanent pasture or leys? *Poultry World* 84: 7. Jan. 7, 1949. 47.8 P8682
- 27715 MOURIQUAND, G., ROLLET, J., and EDEL, V. Sur l'avitaminose A du pigeon. *Soc. de Biol. Compt. Rend.* 142: 980-981. Aug. 1948. 442.9 P21
- 27716 NAETHER, C. Feeding pigeons. *All-Pets Mag.* 20(2): 57-59. Feb. 1949. 48.8 AL5
- 27717 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Grit and minerals for poultry. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 229-233. Dec. 1948. 256.13 Ag82M
- 27718 PARTHASARATHY, D. Substitute poultry feeds. *Indian Farming* 9: 294-296. July 1948. 22 In283
- 27719 PEROTTI, R. M. Alimentación racional de las gallinas. *Campo y Suelo Argentino* 32(385): 50-52, 58. Nov. 1948. 9 C15
- 27720 PULGAR, J. El maíz empleado como único alimento para las aves; sus buenas y malas cualidades. *Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 39(181): 16-17. Nov./Dec. 1948. 8 R323
- 27721 RAIMO, H. F. Some substitutes for wheat bran in poultry nutrition. (In Portuguese.) *Rev. dos Criadores* 19(12): 43-44, 46. Dec. 1948. 43.8 R32
- 27722 RAIMO, H. F. Turkeys as meat producers; gain in live weight in relation to feed consumption. (In Portuguese.) *Rev. dos Criadores* 19(10): 114-115. Oct. 1948. 43.8 R32
- 27723 RINGROSE, R. C. Nutritive properties of torula yeast for poultry. *Poultry Sci.* 28(1): 75-83. Ref. Jan. 1949. 47.8 Am33P  
*Torulopsis utilis*.
- 27724 RUHL, F. E. Die keimhaferbereitung. *Kleintier-Zücht. Tierbörse* 3(49): 3. Dec. 10, 1948. 49 K672  
For poultry feed.
- 27725 SINGSEN, E. P. The phosphorus requirements of the chicken; with special reference to the availability of phytin phosphorus. *Conn. (Storrs) Agr. Expt. Sta. B.* 260, 53 p. Ref. Apr. 1948. 100 C76S
- 27726 SUTCLIFFE, W. Experiments with poultry grass mixtures. *Mod. Poultry Keeping* 60: 42-43. Jan. 12, 1949. 47.8 Eg3

#### Veterinary Medicine

- 27727 ADAMSTONE, F. B. Experiments on the development of the amnion in the chick. *J. Morph.* 83: 359-371. Nov. 1948. 444.8 J826
- 27728 AREBA BLANCO, J. DE. Nuevo procedimiento de castración en las aves de corral. *Agr. Venezol.* 13 (130): 38. Apr./June 1948. 9.95 Ag8
- 27729 BANG, F. B. Cell blockade in Newcastle disease of chickens and chicken embryos. *J. Expt. Med.* 89: 141-154. Ref. Feb. 1, 1949. 448.8 J822
- 27730 BEACH, J. R. Avian pneumoencephalitis (Newcastle disease) in egg laying contest. *Vet. Med.* 44: 129-130. Mar. 1949. 41.8 M69
- 27731 BEACH, J. R. Newcastle disease in laying test. *San Diego Poultry J.* 25(521): 5, 10. Jan. 1949. 47.8 Sa52



- 27732 BEACH, J. R., BANKOWSKI, R. A., and QUORTRUP, E. R. A preliminary report on the modification of avian pneumoencephalitis (Newcastle disease) virus by cultural methods. *Cornell Vet.* 38: 341-357. Ref. Oct. 1948. 41.8 C81
- 27733 BEAUDETTE, F. R., BIVINS, J. A., and MILLER, B. R. A comparison of filtration and antibiotic treatment for the recovery of Newcastle virus from spontaneous cases. *Amer. J. Vet. Res.* 10(34): 92-95. Jan. 1949. 41.8 Am3A
- 27734 BEAUDETTE, F. R. Latest facts on Newcastle disease. In *U. S. Bur. Anim. Indus. Anim. Husb. Div. Natl. Plans Conf.* 1948: 55-64. June 1948. 1.972 A3R295
- 27735 BENEY, P. A. These signs mean colds; traces of mucous beneath the wings are an early indication. *Poultry World* 83: 474. Dec. 31, 1948. 47.8 P8682
- 27736 BENOIT, J., and CLAVERT, J. Action de la thyroïde sur le métabolisme calcique et le tissu osseux chez le canard domestique. *Arch. d'Anat. Micros. et de Morph. Expt.* 37: 214-229. Ref. 1948. 44.8 Ar21
- 27737 BERNSTORF, E. C. Hepatic inactivation of testicular androgen in the White Leghorn cockerel. *Soc. Expt. Biol. & Med. Proc.* 69: 447-448. Dec. 1948. 442.9 Sol
- 27738 BIETH, R., MANDEL, P., and STOLL, R. Evolution biochimique du cerveau de l'embryon de poulet. Les acides nucléiques. *Soc. de Biol. Compt. Rend.* 142: 1020-1022. Aug. 1948. 442.9 P21
- 27739 BJORN, M. K., and NORTEN, H. T. Effects of 2,4-dichlorophenoxyacetic acid on chicks. *Science* 108: 479-480. Oct. 29, 1948. 470 Sci2
- 27740 BLACKWELL, H. L. Disease prevention in the field. *Mod. Poultry Keeping* 60(1): 7. Jan. 5, 1949. 47.8 Eg3
- 27741 BLOUNT, W. P. Vaccines control fowl pest. *Poultry World* 84: 25. Jan. 14, 1949. 47.8 P8682
- 27742 BONADUCE, A. Research on the hemoagglutination test and its inhibition (H.I.) in Newcastle disease in Italy. (In Italian.) *Clin. Vet. [Milan]* 71: 345-351. Ref. Nov. 1948. 41.8 C61
- 27743 BOOKER, E. E., and STURKIE, P. D. The effect of thyroxine and iodinated casein on the development of the chick thyroid. *Poultry Sci.* 28(1): 147-148. Jan. 1949. 47.8 Am33P
- 27744 BORREL, A. J. Lésions hydatiques inattendues chez une poule. *Rev. de Méd. Vét. [Toulouse]* 99: 441-445. Oct. 1948. 41.8 R32
- 27745 BREED, F. Confusing respiratory infections. *Norden News* 23: 10. Jan./Feb. 1949. 41.8 N75
- In poultry.
- 27746 BRYAN, H. S., PRIER, J. E., and GRACE, O. D. Infectious sinusitis of turkeys in Illinois. *Vet. Med.* 44(1): 31-33. Jan. 1949. 41.8 M69
- 27747 BUSHNELL, L. D., and ERWIN, L. E. The antitryptic action of *Ascaridia galli*. *Poultry Sci.* 28(1): 8-9. Jan. 1949. 47.8 Am33P
- 27748 BUSHNELL, L. D., and ERWIN, L. E. Anti-tryptic action of chicken pus. *Poultry Sci.* 28(1): 3-7. Jan. 1949. 47.8 Am33P
- 27749 CARDA GÓMEZ, P. La peste aviar vencida. *Ganadería [Madrid]* 6: 352-354. July 1948. 49 G15
- 27750 CLANCY, C. F., COX, H. R., and BOTTORFF, C. A. Laboratory experiments with living Newcastle disease vaccine. *Poultry Sci.* 28(1): 58-62. Jan. 1949. 47.8 Am33P
- 27751 COLE, R. K. The egg and avian leucosis. *Poultry Sci.* 28(1): 31-44. Ref. Jan. 1949. 47.8 Am33P
- Egg-borne transmission.
- 27752 COMI, L., and CONTI, E. Observations on the passage of sulfamides in the hen's egg. (In Italian.) (Abs.) *Zootec. e Vet.* 3(6): 24. June 1948. 41.8 Z7
- 27753 CUNNINGHAM, C. H., and EL DARDIRY, A. H. Distribution of the virus of infectious bronchitis of chickens in embryonated chicken eggs. *Cornell Vet.* 38: 381-388. Oct. 1948. 41.8 C81
- 27754 DAUBNEY, R., and MANSY, W. Note on the occurrence of Newcastle disease in Egypt. *Off. Internat. des Epizoot. B.* 30: 255-268. May 1948. 41.8 Of2
- 27755 DAUBNEY, R., MANSY, W., and ZAHARAN, G. Vaccination of fowls against fowl plague. *Off. Internat. des Epizoot. B.* 30: 233-254. May 1948. 41.8 Of2
- 27756 DAVIS, O. S., and DOYLE, L. P. Studies in avian leucosis. IV. Further transmission of visceral lymphomatosis. *Amer. J. Vet. Res.* 10(34): 85-91. Jan. 1949. 41.8 Am3A
- 27757 DAWSON, I. M., and ELFORD, W. J. Electron microscope studies on the interaction of certain viruses with fowl red cell membranes. *Nature [London]* 163: 63-64. Jan. 8, 1949. 472 N21
- 27758 DEKEHL, G. Treatment for controlling roup: General condition of poultry house is important. An even temperature is essential. *Grit & Steel* 50(9): 47. Jan. 1949. 47.8 G88
- 27759 DICKINSON, E. M., and STODDARD, E. D. Sulfamerazine against *Salmonella pullorum* in adult chickens. *Poultry Sci.* 28(1): 153-155. Ref. Jan. 1949. 47.8 Am33P
- 27760 EDGAR, S. A. Anthelmintic activity of sodium fluoride in chickens. *Amer. J. Vet. Res.* 9: 396-398. Oct. 1948. 41.8 Am3A
- 27761 ELLIS, F. H., III. The relation of the veterinarian to the poultry industry in Pennsylvania. *Pa. U. School Vet. Med. Vet. Ext. Q.* 113: 21-24. Jan. 18, 1949. 41.9 P386
- 27762 EVELETH, D. F., GOLDSBY, A. I., and NELSON, C. I. Fowl cholera (*Pasteurella multocida*). *Vet. Med.* 44: 73-78. Ref. Feb. 1949. 41.8 M67
- 27763 GARLAND, F. W., JR., WINTER, A. R., and AMIET, E. R. A comparison of methods of testing turkeys for *Salmonella pullorum* infection. *Poultry Sci.* 28(1): 63-68. Ref. Jan. 1949. 47.8 Am33P
- 27764 GEURDEN, L. A propos de la maladie de Newcastle. *Elevages Mod.* 1948: 187, 189-190. Dec. 1948. 49 EL22
- 27765 GILDOW, E. M. Newcastle can be controlled; A.V.M.A. [American Veterinary Medical Association] tells of values of vaccines. *Albers Egg Maker* 25: 7. Winter 1949. 47.8 AL1
- 27766 GORDON, R. F. External parasites: treatment and control. *Mod. Poultry Keeping* 60: 98-99. Jan. 26, 1949. 47.8 Eg3
- 27767 GORDON, R. F. Incubator diseases and human health. *Farmer & Stock-Breeder* 63: 230-231. Jan. 25, 1949. 10 F228
- Salmonella* infected egg and egg products, as a cause of gastro-enteritis in man.
- 27768 GORET, R. Pestes aviaires. *Cult. Mod.* 30: 453-454. Dec. 1947. 15 C89
- 27769 GREAT BRITAIN MINISTRY OF AGRICULTURE AND FISHERIES. Fowl pest. *Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet* 18, 3 p. Nov. 1948. 41.9 G792A
- Fowl pest and Newcastle disease.
- 27770 GROSCHKE, A. C., ANDERSON, J. O., and BRIGGS, G. M. Peculiar enlargement of eyeballs in chicks caused by feeding a high level of glycine. *Soc. Expt. Biol. & Med. Proc.* 69: 488-491. Dec. 1948. 442.9 Sol
- 27771 GUÉRANDE, C. Attention à la typhose aviaire. *Rustica* 22: 23, 27. Jan. 9, 1949. 14 R92
- 27772 HAYS, F. A. Mortality in the laying house. *Poultry Sci.* 28(1): 146-147. Jan. 1949. 47.8 Am33P
- 27773 HEEMSTRA, L. C. The problem of variant pullorum infection. In *U. S. Bur. Anim. Indus. Anim. Husb. Div. Natl. Plans Conf.* 1948: 32-38. June 1948. 1.972 A3R295
- 27774 HITCHNER, S. B. The pathology of infectious sinusitis of turkeys. *Poultry Sci.* 28(1): 106-118. Ref. Jan. 1949. 47.8 Am33P
- 27775 HOECKER, S. G., and BRNCIC, J. D. Hallazgo de tumores en aves resistentes a reinoculaciones de material leucémico. *Biológica* 5: 41-51. Ref. Dec. 1946, pub. 1948. 442.8 B5222
- English summary.
- Tests with fowl.
- 27776 HOWSE, A. C. Coccidiosis [in poultry]. *New Zeal. Dept. Agr. B.* 319, 4 p. 1948. 23 N48Bu
- 27777 HOWSE, A. C. Internal parasites which infest poultry. *New Zeal. J. Agr.* 77: 481-482. Nov. 1948. 23 N48J
- Chiefly roundworms.
- 27778 HOWSE, A. C. Pullorum disease. *New Zeal. Dept. Agr. B.* 318, 3 p. 1948. 23 N48Bu
- 27779 KOHTS, A. E. Analogical variation in the plumage of domestic fowls and grouse. A contribution to the problem of the inter-relation of Darwinism and genetics. *London. Zool. Soc. Proc.* 117: 742-747. Feb. 1948. 410.9 L84P
- 27780 KOUTZ, F. R. Immunity studies in avian cecal coccidiosis. I. The value of drugs to establish immunity in young chickens. *Amer. J. Vet. Res.* 9: 388-395. Ref. Oct. 1948. 41.8 Am3A



- 27781 KRAUS. Behandlung des geflügels bei befall mit lufttröhrenwürmern. Landfrau 3(19/20): 23. Oct. 1948. 18 L2337
- 27782 LEE, C. E. Our experience with Newcastle vaccination. Everybody's Poultry Mag. 54(1): 6, 21-25. Jan. 1949. 47.8 F213P
- 27783 LÉPINE, P., ATANASIU, P., and CROISSANT, O. Aspect au microscope électronique des inclusions de la variole aviaire (corps de Bollinger). Inst. Pasteur Ann. 75: 279-281. Sept. 1948. 448.3 An75
- 27784 LISSOT, G. Chaponnage électrique et chaponnage hormonal. Acad. Vét. de France. B. 21: 361-364. Nov. 1948. 41.9 R24
- 27785 MAQSOOD, M. Carcino-liomyoma in turkeys. Vet. Med. 44: 134. Mar. 1949. 41.8 M69
- 27786 MARKHAM, F. S., COX, H. R., and BOTTORFF, C. A. Field trials with living virus vaccine for Newcastle disease. Poultry Sci. 28(1): 52-57. Jan. 1949. 47.8 Am33P
- 27787 MASSACHUSETTS. STATE COLLEGE. POULTRY DISEASE CONTROL LABORATORY. Twenty-eighth annual report of pullorum disease eradication in Massachusetts. Mass. Agr. Expt. Sta. Control Ser. B. 138, 11 p. July 1948. 100 M38H
- 27788 MELAMPY, R. M. Cytochemical studies of the chicken erythrocyte. I. Amino acid content and distribution. J. Biol. Chem. 175: 589-593. Ref. Sept. 1948. 381 J824
- 27789 MESHEW, M. H. The use of oxygen in the hatching of chicken and turkey eggs at high altitudes. Poultry Sci. 28(1): 87-97. Jan. 1949. 47.8 Am33P
- 27790 MOSES, H. E., and others. Immunization of chickens against fowl plague. Amer. J. Vet. Res. 9: 399-420. Ref. Oct. 1948. 41.8 Am3A
- C. A. Brandly, E. E. Jones, and E. L. Jungherr, joint authors.
- 27791 NICHOL, C. A., and others. Activity of vitamin B<sub>12</sub> in the growth of chicks. Soc. Expt. Biol. & Med. Proc. 70: 40-42. Jan. 1949. 442.9 Sol
- L. S. Dietrich, W. W. Cravens, and C. A. Elvehjem, joint authors.
- 27792 OLSEN, M. W., and NEHER, B. H. The site of fertilization in the domestic fowl. J. Expt. Zool. 109: 355-366. Ref. Dec. 1948. 410 J825
- 27793 ORTIZ VÉLEZ, M. Coriza infecciosa de las aves y su tratamiento. Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad. 2(6): 53-55. Sept. 1948. 49.9 P433
- 27794 PESSA, F. American methods of caponization. (In Italian.) Clin. Vet. [Milan] 71: 243. July 1948. 41.8 C61
- 27795 PETERSON, E. H. Sulfonamides in the control of experimental coccidiosis in the turkey. Vet. Med. 44: 126-128. Mar. 1949. 41.8 M69
- 27796 POGGIO, A. La tuberculosis en las aves. Campo y Suelo Argentino 32(386): 38-39. Dec. 1948. 9 C15
- 27797 RAMOS SACO, T. La industria avícola y las enfermedades de las aves. Peru. Dir. de Ganad. Ganad. 2(5): 62-75. (Cont.) June 1948. 49.9 P433
- 27798 RAY, H. N. Coccidia and coccidiosis in poultry. Indian Farming 8: 346-348. July 1947. 22 In283
- 27799 REYNIERS, J. A., and others. A complete life-cycle in the 'germ-free' Bantam chicken. Nature [London] 163: 67-68. Jan. 8, 1949. 472 N21
- P. C. Trexler, R. F. Ervin, M. Wagner, T. D. Luckey, and H. A. Gordon, joint authors.
- 27800 ROBERTSON, E. I., and others. Field research on "stunted chick" disease. Poultry Sci. 28(1): 14-18. Jan. 1949. 47.8 Am33P
- C. I. Angstrom, H. C. Clark, and M. Shimm, joint authors.
- 27801 ROMER, R. R. Versuche, geschlechtsbestimmung und geschlechtserkennung bei hühnern. Geflügelhof 12: 8-10, 23-27. Jan. 7-14, 1948. 47.8 C276
- 27802 SADUN, E. H. The antibody basis of immunity in chickens to the nematode, Ascaridia galli. Amer. J. Hyg. 49(1): 101-116. Ref. Jan. 1949. 449.8 Am3
- 27803 SADUN, E. H. The effect of single infections of variable size on the resistance of chickens to the nematode, Ascaridia galli. Amer. J. Hyg. 49(1): 117-126. Jan. 1949. 449.8 Am3
- 27804 SÁNCHEZ BOTIJA, C., and BLANCO LOIZE-LLIER, A. La vacunación contra la peste aviar en España con la vacuna patrón oficial del Instituto de Biología Animal. Ganadería [Madrid] 6: 355-365. July 1948. 49 G15
- 27805 SAVIANO, M., LEONE, E., and FRANCISCIS, P. DE. Action of cysteine and the relations between cysteine and the activity of alloxan in uricacidemia and glycemia in pigeons. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 545-549. Apr. 1948. 442.8 Sol2
- 27806 SAVIANO, M., and LEONE, E. Alloxan and uric acid metabolism. III. Researches on poultry. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 543-545. Apr. 1948. 442.8 Sol2
- 27807 SCHONHOLZER-KECK, H. Krumme brust-beine. Geflügelhof 12: 4. Jan. 7, 1949. 47.8 C276
- In poultry.
- 27808 SCHWEIGERT, B. S. Folic acid metabolism studies. II. Effect of dietary intake on the concentration of free and combined vitamin in the blood of the turkey. Arch. Biochem. 20(1): 41-46. Jan. 1949. 381 Ar2
- 27809 SCRIMSHAW, N. S., GOODLAND, R. L., and HUTT, F. B. Variations in the ascorbic acid blood level of hens. Poultry Sci. 28(1): 45-51. Ref. Jan. 1949. 47.8 Am33P
- 27810 SIGARS, G. O. Infectious coryza of turkeys (sinusitis or roup). Amer. Vet. Med. Assoc. J. 114(862): 16-19. Ref. Jan. 1949. 41.8 Am3
- 27811 SKJERVEN, O. Sulfamethazine against coccidiosis in chicks. (In Norwegian.) Norsk Vet. Tidsskr. 60: 412-414. Nov. 1948. 41.8 N81
- 27812 STURKIE, P. D. Effects of changes in position of the heart of the chicken on the electrocardiogram. Amer. J. Physiol. 154: 251-257. Aug. 1, 1948. 447.8 Am3
- 27813 TEKLINSKI, A. Studies on the heredity of immunity against fowl plague recorded in Poland. (In Polish.) Med. Wet. 4(11): 692-695. Nov. 1948. 41.8 M463
- English summary.
- 27814 TODD, A. C., and CULTON, T. G. On naturally acquired helminth infections in hybrid and standard-bred [New Hampshire] chickens. Poultry Sci. 28(1): 84-86. Jan. 1949. 47.8 Am33P
- 27815 VIANELLO, G. Obstruction of the gizzard of poultry by fibrous foods. (In Italian.) Clin. Vet. [Milan] 71: 307-308. Sept. 1948. 41.8 C61
- 27816 WARD, G. W. Poultry disease. IV-V. Westralian Farmers' Co-op Gaz. 14: 331, 333-335, 363, 365-366. Nov.-Dec. 1948. 280.28 W522
- IV. Infectious laryngo-tracheitis. V. Infectious coryza.
- 27817 WILKINS, H. F. Co-operation needed to check poultry diseases in State. Mont. Farmer-Stockman 36(9): 26, 31. Jan. 1, 1949. 6 M764
- 27818 WILSON, J. G. Avian salmonellosis. Croydon, Eng., 1948. 7 p. 448.2 W694
- 27819 WORCESTER, W. W., and MEYERS, L. D. A report on a condition resembling avian monocytosis disease (blue comb) in California. Nulaid News 26(10): 13. Feb. 1949. 47.8 N917
- 27820 WRIGHT, M. L., and EDWARDS, P. R. The serologic differentiation of Salmonella pullorum forms. Amer. J. Vet. Res. 9: 386-388. Oct. 1948. 41.8 Am3A

#### Miscellaneous

- 27821 AGENJO CECILIA, C. Normas para la crianza de los patos. Ganadería [Madrid] 6: 402-404. Aug. 1948. 49 G15
- 27822 ALEXANDER, A. K. S. Skilled attention and interest. Farmer & Stock-Breeder 63: 51. Jan. 4, 1949. 10 F228
- Poultry care.
- 27823 ALONSO O. DE M., E. Las gallinas de puesta invernal. Campiña 29(3): 3. Dec. 1948. 15 C152
- 27824 ANDERSON, E. E. Early chicks for high profits; better buy them now. N. Mex. Stockman 14(1): 92 F. Jan. 1949. 49 N462
- 27825 ARMSTRONG, J. B. Good management pays off on this poultry farm. Wash. Farmer 74: 5. Jan. 6, 1949. 6 R151
- 27826 BAKER, R. C. Litter wet? Here are some suggestions for avoiding and overcoming what is a serious problem on many poultry farms at this season. Everybody's Poultry Mag. 54(1): 7, 44-46. Jan. 1949. 47.8 F213P
- 27827 BENTON, R. A. Baby chicks—start them right. Nebr. Agr. Col. Ext. C. 1492, 12 p. Oct. 1948. 275.29 N272Ex
- 27828 BIRD, H. R. Poultry research at the Agricultural Research Center. In U. S. Bur. Anim. Indus. Anim. Husb. Div. Natl. Plans Conf. 1948: 65-68. June 1948. 1.972 A3R295



- 27829 BLACKWELL, H. L. Common-sense brooding. *Mod. Poultry Keeping* 60: 67. Jan. 19, 1949. 47.8 Eg3
- 27830 BLOUNT, W. P. More about U.S. methods. *Mod. Poultry Keeping* 60(1): 6. Jan. 5, 1949. 47.8 Eg3
- 27831 BRUCE, W. H. Intensive housing of layers. *Poultry Farmer* [Sydney] 16(24): 5-7. Dec. 11, 1948. 280.28 Or32
- 27832 BURGOS, C. X. Questions and answers on chicken raising. *Philippine Livestock Mag.* 1: 159-160, 183, 184-185, 187-188. (Cont.) Sept. 1948. 49 P53
- 27833 BUTTNER, E. E. Experiments with baby pigeons. *So. African Poultry, Pigeon & Bird Mag.* 73 i. e. 53(443): 29; 74 i. e. 54(444): 29-30. Dec. 1948-Jan. 1949. 47.8 So83
- 27834 CALABUIG Y CALABUIG, J. Averia. IV. *Ceres* [Valladolid] 12(149): 16-17. Nov. 1, 1948. 15 C33
- 27835 CAPPER, A. Cockerels are a curse. *Poultry Farmer* [London] 120(3107): 8. Jan. 21, 1949. 47.8 F312
- 27836 CAPPER, A. I am not an out-of-season hatching fan. *Poultry Farmer* [London] 120(3106): 8. Jan. 14, 1949. 47.8 F312
- 27837 CAPPER, A. I pick 200-egggers without trapping. *Poultry Farmer* [London] 119(3103): 4. Dec. 24, 1948. 47.8 F312
- 27838 CAVERS, J. R. Feed and housing count, but skilful care puts eggs in the nest. *Farmer's Advocate & Home Mag.* 84(3342): 5, 27. Jan. 13, 1949. 7 F22
- 27839 CAVERS, J. R. Turkey hatchability. *Canad. Poultry Rev.* 73(2): 43-45. Feb. 1949. 47.8 C16
- 27840 COTIGNOLA, I. E. Ventajas de las razas de doble propósito en la explotación granjera. *Campo y Suelo Argentino* 32(385): 48-49. Nov. 1948. 9 C15
- 27841 DICK, A. Berwertungsdifferenzen. *Geflügelhof* 12: 22-23. Jan. 14, 1948. 47.8 G276
- 27842 DREWRY, D. Keep the breeding ducks in good condition. *Mod. Poultry Keeping* 60: 70-71. Jan. 19, 1949. 47.8 Eg3
- 27843 ENGLER, H. L'élevage et l'entretien des poules. *Berne, Impr. Fédérative*, 1947. 95 p. 47 En33Af
- 27844 FAWCETT, J. A. What is average production? *Mod. Poultry Keeping* 60(1): 14. Jan. 5, 1949. 47.8 Eg3
- 27845 FETZER. Die grösse der zwerghühner. *Kleintier-Zücht. Tierbörse* 3(48): 5. Nov. 25, 1948. 49 K672
- 27846 FLOAT, F. P. "Factory" methods of egg production on a general farm. *Mod. Poultry Keeping* 59: 676-677. Dec. 29, 1948. 47.8 Eg3
- 27847 GIL FORTÚN, F. Problemas de actualidad avícola. *Ganadería* [Madrid] 6: 409-411. Aug. 1948. 49 G15
- 27848 GOBLE, J. W. Artificial lights for laying hens. *Nebr. Agr. Col. Ext. E.C.1442*, 2 p. Dec. 1948. 275.29 N272Ex
- 27849 GUYER, P. Inefficiencies in poultry production. *Amer. Poultry J.* 80(1): 59-60. Jan. 1949. 47.8 Am32
- 27850 HADDON, S. G. Progeny testing of poultry. *New Zeal. J. Agr.* 77: 349, 351. Oct. 1948. 23 N48J
- 27851 HADLINGTON, E. The [poultry] culling season. *Agr. Gaz. N. S. Wales* 59: 607-610. Nov. 1, 1948. 23 N472
- 27852 HAGEDOORN, A. L. Trap-nests don't help. *Poultry Farmer* [London] 120(3105): 4. Jan. 7, 1949. 47.8 F312
- 27853 HALL, M. D. Burnley egg-laying competition. *Victoria. Dept. Agr. J.* 46: 407-408. Sept. 1948. 23 V66J
- 27854 HAYES, J. B. When to lay. *Hoard's Dairyman* 94(3): 137. Feb. 10, 1949. 44.8 H65
- 27855 HAYS, F. A. Changes in the egg weight of Rhode Island Red females during the first laying year. *World's Poultry Cong. Off. Rpt.* 8: 151-158. Ref. 1948. 47.9 W898O
- 27856 HEISS, W. V., and HARR, J. F. Statement on poultry research needs submitted at hearings of Agricultural Research Study Committee. n. p., 1948. 4 p. 47 H366
- 27857 HERRERA DEL COLLADO, P. Un caso avícola rarísimo. *Ceres* [Valladolid] 12(149): 27. Nov. 1, 1948. 15 C33
- 27858 HOGSETT, H. Year-around egg production. *Nulaid News* 26(10): 12. Feb. 1949. 47.8 N917
- 27859 HOWES, H. Brooding the early chicks. *Poultry* [London] 104: 90. Feb. 1, 1949. 47.8 P869
- 27860 HUBER GUNA, G. Cría de gansos. *Rev. Ganad.* [Habana] 8(12): 20. Dec. 1948. 49 R321
- 27861 HUERTA, A. Efecto de la luz de color en las aves. *Campo* [La Paz] 2(16): 28. Aug. 1948. 9.1 C15
- 27862 HUGHES, C. E. Deep cob litter, some like it, some don't. *Successful Farming* 46(11): 158, 160-161. Nov. 1948. 6 Su12
- 27863 HUGHES, R. H. So you think turkeys are easy money? *Poultry Farmer* [London] 119(3103): 4. Dec. 24, 1948. 47.8 F312
- 27864 INSKO, W. M., JR. Fundamentals of turkey incubation; heat, moisture, and turning all affect hatches. *Turkey World* 24(1): 70, 72. Jan. 1949. 47.38 T84
- 27865 JAMES, L. E. Take care of those hatching eggs! Unnecessary egg losses cost millions yearly. *Turkey World* 24(2): 18-19, 87-88. Feb. 1949. 47.38 T84
- 27866 JOHNSON, R. Southwest Poultry Experiment Station. It has uncovered many useful facts for the desert poultry raiser. *Pacific Poultryman* 53(2): 30. Feb. 1949. 47.8 P112
- 27867 JONES, R. E. High points in brooding chicks. *New England Homestead* 122: 22. Jan. 8, 1949. 6 N442
- 27868 JOYCE, A. 200 eggs per bird; poor layers spoil what might have been an outstanding flock average. *Poultry World* 84: 6. Jan. 7, 1949. 47.8 P8682
- 27869 JULL, M. Hatchability of turkey eggs held at freezing temperatures; very short exposure to cold seems to help hatch. *Turkey World* 24(2): 28, 81-82. Feb. 1949. 47.38 T84
- 27870 KELLNER, C. Winter im hühnerstall. *Kärntner Bauer* 98: 424-426. Dec. 20, 1948. 19 K14
- 27871 KENTUCKY. UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Poultry calendar, by C. E. Harris. Lexington? 1948. 47 p. 275.29 K415Po
- 27872 KIELANOWSKI, J., BIELINSKA, K., and CHOMYSZYŃ, M. A practical method of weighing geese. (In Polish.) *Przegl. Hodowlany* 16: 363-365. Nov./Dec. 1948. 49 P952
- 27873 KLEIN, G. T. Poultry raising west of the Connecticut. *New England Homestead* 122(2): 16, 17. Jan. 22, 1949. 6 N442
- 27874 KOUDELE, J. W. Producing and marketing eggs in the Wichita area. *Kans. Agr. Expt. Sta. C.* 254, 8 p. Dec. 1948. 100 K13S
- 27875 LAYCOCK, G. Guinea fowl. *Farm Q.* 3(4): 37-39, 106-108. Winter 1948. 6 F22995
- 27876 LLOYD, E. A. The need for turkey judging standards. *Canada Poultryman* 35(12): 5-9. Dec. 1948. 47.8 C166
- 27877 LODGE, C. Late hatching means fewer eggs. *Poultry Farmer* [London] 120(3108): 8. Jan. 28, 1949. 47.8 F312
- 27878 LUELMO, J. M. Notas avícolas: precocidad. *Ganadería* [Madrid] 6: 536-537. Oct. 1948. 49 G15
- 27879 MANALO, P. S. Duck raising as a profitable enterprise. *Philippine Livestock Mag.* 1: 44-45, 73. Dec. 1947. 49 P53
- 27880 MARSHALL, J. All's well after the moult. *Poultry* [London] 103: 514. Dec. 28, 1948. 47.8 P869
- 27881 MOORE, M. Any poultryman can do it in 1949! *Albers Egg Maker* 25: 3-4, 17-19. Winter 1949. 47.8 AL1
- 27882 MORRIS, L. Avoid fall molt; good practices minimize molting. *Utah Farmer* 68(5): 35. Oct. 10, 1948. 6 D45
- 27883 Poultry management for egg production.



- 27883 MOTLEY, W. A. Electric light puts up winter turkey egg production. *Poultry Farmer* [London] 120 (3108): 4. Jan. 28, 1949. 47.8 F312
- 27884 NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Commercial broiler production in Nebraska, a supplement to E.C.1492 by J. H. Claybaugh. *Nebr. Agr. Col. Ext. E.C.1493*, 4 p. Jan. 1949. 275.29 N272Ex
- 27885 NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. How to judge values of baby chicks. *Nebr. Agr. Col. Ext. E.C.1494*, 2 p. Jan. 1949. 275.29 N272Ex
- 27886 NORDSKOG, A. W., PENQUITE, R., and CRUMP, S. L. Factors affecting students' ability to judge poultry. *Poultry Sci.* 28(1): 98-105. Jan. 1949. 47.8 Am33P
- 27887 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Let the chicks get nature's gifts; rear them outside. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 291-294. Feb. 1949. 256.13 Ag82M
- 27888 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Poultry judging in Denmark. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 235-236. Dec. 1948. 256.13 Ag82M
- 27889 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. The raising and fattening of turkeys. *North. Ireland. Min. Agr. Leaflet* 37, 11 p. 1948. 10 N81
- 27890 OGLE, R. C. Poultry flocks egg-spanding. *Breeder's Gaz.* 114(2): 27. Feb. 1949. 49 B74
- 27891 OGLE, R. C. What kind, how many and when. *Breeder's Gaz.* 114(3): 28. Mar. 1949. 49 B74  
Buying baby chicks.
- 27892 PARRISH, C. F. Chick raising and range management. *N. C. Agr. Col. Ext. C.* 251, rev., 14 p. Nov. 1948. 275.29 N811
- 27893 POULTRY SCIENCE ASSOCIATION. Proposed revision (1948), constitution and by-laws. n. p., 1948. 19 p. 47.9 P86P
- 27894 POWELL-OWEN, W. Avoid wastage this season; a less ambitious rearing programme may be the answer to the disappointments of last year. *Poultry World* 84: 8. Jan. 7, 1949. 47.8 P8682
- 27895 POWELL-OWEN, W. Fitness of the early broods; they come at a time when the chick rearer, his plant and land are fresh, with the weather all in their favour. *Poultry World* 84: 59. Jan. 28, 1949. 47.8 P8682
- 27896 POWELL-OWEN, W. Lighting for winter eggs; by night-feeding commercial men avoid moulting in early-hatched pullets. *Poultry World* 84: 43. Jan. 21, 1949. 47.8 P8682
- 27897 RADFORD, F. W. Some early [poultry] history. *All-Pets Mag.* 20: 56, 57. Jan. 1949. 48.8 AL5
- 27898 RAIMO, H. F. The poultry industry; its relation to general farming. (In Portuguese.) *Rev. dos Criadores* 19(11): 59-61. Nov. 1948. 43.8 R32
- 27899 RICE, J. E., and BOTSFORD, H. E. Practical poultry management. Ed. 5. New York, Wiley, 1948. 614 p. Ref. (Wiley Farm Ser.) 47 R362
- 27900 ROCASOLANO, C. Técnica y experiencia. *Cult. Mod.* 31: 333-334. Sept. 1948. 15 C89  
Poultry raising.
- 27901 ROOME, C. A. Frost and snow need not stop egg laying. *Farmer & Stock-Breeder* 63: 51. Jan. 4, 1949. 10 F228
- 27902 SANCTUARY, W. C. Embryo temperatures may furnish clue to unsatisfactory hatches. *Poultry Supply Dealer* 26(1): 16-17. Jan. 1949. 47.8 B11
- 27903 SARASQUETA, P. A. DE. Producción de huevos. *Campo y Suelo Argentino* 32(386): 40-41. Dec. 1948 9 C15  
Poultry care.
- 27904 SCHROEDER, P. Oregon's poultry and turkey improvement programs. *Oreg. Dept. Agr. Agr. B.* 160: 6-7, 24. Dec. 1948. 2 Or3
- 27905 SCHULER, S. Home-grown chickens really pay off. *Household* 49(3): 36, 93. Mar. 1949. 321.8 H813
- 27906 SPINNEY, G. G. Best size for poultry units. *Mod. Poultry Keeping* 60: 71. Jan. 19, 1949. 47.8 Eg3
- 27907 SQUIRES, G. A. Cold weather fiddle. *Poultry Farmer* [London] 120(3107): 4. Jan. 21, 1949. 47.8 F312  
Winter care of poultry.
- 27908 SQUIRES, G. A. Poultry "specialists" are out of date. *Mod. Poultry Keeping* 60: 69. Jan. 19, 1949. 47.8 Eg3
- 27909 STRATTON, C. L. Home hatched chicks. *Rural New-Yorker* 99: 64-65. Jan. 15, 1949. 6 R88
- 27910 TERMOHLEN, W. D. Summary article for the Department of State Bulletin reporting the Eighth World's Poultry Congress, Copenhagen, Denmark, Aug. 20-27, 1948. n. p., 1948. 3 p. 47.9 W8982S
- 27911 TEXAS POULTRY IMPROVEMENT ASSOCIATION. Texas poultry directory, 1949. Stephenville, 1949. 88 p. 225 T317
- 27912 TORRES LÓPEZ DE HARO, C. El magisterio y la avicultura. *Ganadería* [Madrid] 6: 370-371. July 1948. 49 G15
- 27913 TRENT, D. Ducks lay longer; they often continue profitable production into three laying seasons—provided the management is right. *Poultry World* 83: 472. Dec. 31, 1948. 47.8 P8682
- 27914 TROLLOPE, G. A. Turkeys are tough birds. *South. Agr.* 77(12): 11, 51. Dec. 1948. 6 So83  
Chiefly care.
- 27915 U. S. BUR. OF ANIMAL INDUSTRY. The National Turkey Improvement Plan. U. S. D. A. Misc. P. 555, rev., 32 p. June 1948. 1 Ag84M
- 27916 U. S. BUR. OF ANIMAL INDUSTRY. State inspectors for the National Poultry Improvement Plan and the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 124, 7 p. Jan. 1949. 1.9 An52Ah
- 27917 U. S. BUR. OF ANIMAL INDUSTRY. State participation in the National Poultry Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 25, rev., 4 p. Jan. 1949. 1.9 An52Ah
- 27918 U. S. BUR. OF ANIMAL INDUSTRY. ANIMAL HUSBANDRY DIV. Report of National Plans Conference, June 26-29, 1948 in St. Louis, Missouri. Washington? 1948. 100 p. 1.972 A3R295  
National Poultry Improvement Plan and National Turkey Improvement Plan.
- 27919 VESEY-FITZGERALD, B. Bird of festivity. *Field* 192: 727-728. Dec. 25, 1948. 10 F45  
Chiefly history and breeds of turkeys.
- 27920 VICKERMAN, E. R. The "growing pains" of a hatchery. *Mod. Poultry Keeping* 60: 41. Jan. 12, 1949. 47.8 Eg3
- 27921 VICKERS, G. S. The National Poultry Improvement Plan from the official State agency viewpoint. In U. S. Bur. Anim. Indus. Anim. Husb. Div. Natl. Plans Conf. 1948: 48-54. June 1948. 1.972 A3R295
- 27922 VICKERS, G. S. Why culling and blood testing crews have to be constantly on toes. *Poultry Supply Dealer* 26(2): 26-27. Feb. 1949. 47.8 B11
- 27923 WILL, K. Gedanken zur geflügel-ausstellung. *Kleintier-Zücht. Tierbörse* 3(48): 4; (49): 4-5. Nov. 25-Dec. 10, 1948. 49 K672
- 27924 WILSON, MRS. Run on the lawn is my egg secret. *Poultry Farmer* [London] 119(3102): 8-9. Dec. 17, 1948. 47.8 F312
- 27925 WINDER, G. 65,000 turkeys a year. *Farmers Weekly* [London] 30: 47. Jan. 7, 1949. 10 F2226
- 27926 WINDER, S. S. Deep litter system for domestics. *Poultry* [London] 104: 30. Jan. 11, 1949. 47.8 P869
- 27927 WOLF, D. C. They've doubled eggs per hen. *Successful Farming* 46(11): 45, 164-167. Nov. 1948. 6 Su12  
Chiefly management.
- 27928 WORLD'S POULTRY CONGRESS, 8, COPENHAGEN, 1948. The eighth World's Poultry Congress [provisional programme]. København, 1947. 8 p. 47.9 W898
- 27929 WORLD'S POULTRY CONGRESS, 8, COPENHAGEN, 1948. DELEGATION FROM THE UNITED STATES. Report to the Secretary of State of the Official Delegation to the Eighth World's Poultry Congress, Copenhagen, Denmark, Aug. 20-27, 1948. n. p., 1948. 14 p. 47.9 W8982  
By W. D. Termohlen, chairman.
- 27930 ZUMBRO, P. B. Progress report of the National Poultry Improvement Plan and the National Turkey Improvement Plan. In U. S. Bur. Anim. Indus. Anim. Husb. Div. Natl. Plans Conf. 1948: 25-31. June 1948. 1.972 A3R295



## RABBITS

Breeds and Breeding

27931 ANTES, P. Das Russenkaninchen, seine zucht und pflege. Kleintier-Zücht. Tierbörse 3(48): 7. Nov. 25, 1948. 49 K672

27932 CHANG, M. C. Effects of heterologous seminal plasma and sperm cells on fertilizing capacity of rabbit spermatozoa. Soc. Expt. Biol. & Med. Proc. 70: 32-36. Jan. 1949. 442.9 Sol

27933 CHENG, P., and CASIDA, L. E. Effects of testosterone propionate upon sexual libido and the production of semen and sperm in the rabbit. Endocrinology 44(1): 38-48. Ref. Jan. 1949. 448.8 En2

27934 DITTES, H. Le choix des lapins reproducteurs. Élevages Mod. 1948: 198. Dec. 1948. 49 EL22

27935 DUNCAN, D. The plucking-shearing controversy. Angora Rabbit Mag. 4(6): 12. Jan. 1949. 40.28 An42

27936 HEINLEIN, C. Aus der vererbungslehre. Kleintier-Zücht. Tierbörse 3(49): 6. Dec. 10, 1948. 49 K672

Rabbit breeding.

27937 KILLION, R. E. Champagne fur. Calif. Rabbits Mag. 12(7): 15. Feb. 1949. 40.28 Sa5  
Champagne d'Argent rabbits.

27938 KREPELT, G. Vom Rex-kaninchen. Kleintier-Zücht. Tierbörse 3(47): 7. Nov. 10, 1948. 49 K672

27939 LINKE, E. Angorakaninzucht als kleinsthaltung für den eigenbedarf, als nebenerwerbs- und haupterwerbszucht. Österr. Kleintierzüchter 1948: 492-493. Dec. 1948. 49 Os7

27940 MARTIN, G. D. Square M points. Fur Trade J. Canada 26(4): 72. Dec. 1948. 410 F965  
Meat rabbits.

27941 NEUBAUER, E. Wie muss das kaninchen zur ausstellung beschaffen sein? Kleintier-Zücht. Tierbörse 3(46): 6-7. Oct. 25, 1948. K672  
Care and breeding.

27942 POSTWEILER, M. Das deutsche Widderkaninchen. Kleintier-Zücht. Tierbörse 3(47): 6-7. Nov. 10, 1948. 49 K672

27943 ROBINSON, R. A plan for the recognition of new varieties. Fur & Feather 111: 631. Dec. 10, 1948. 49 F96  
Rabbit judging.

27944 SANDERSON, J. Plan now for next year's Chinchilla progress. Fur & Feather 111: 617. Dec. 3, 1948. 49 F96

27945 SIMS, I. H. Taking the hoo out of hooley. Angora Rabbit Mag. 4(6): 3, 18-19. Jan. 1949. 40.28 An42  
Angoras as a business.

27946 SLEZAK, F. Das Rheinische Scheckenkaninchen (Rh. sch.). Österr. Kleintierzüchter 1948: 485-486. Dec. 1948. 49 Os7

27947 THIBAUT, C., and ORTAVANT, R. L'utilisation du sérum de jument gravide en cuniculture. Acad. d'Agr. de France. Compt. Rend. 34: 833-836. June 30/July 7, 1948. 14 P215Bc

27948 WATSON, A. History of the Silver fancy. Fur & Feather 111: 515. (Cont.) Oct. 15, 1948. 49 F96

27949 WHITNEY, E. G. The American Creme [d'Argent]. Calif. Rabbit News 9(10): 8. Jan. 1949. 40.28 C12

27950 WOOD, A. Rex breeders! Where are you heading? Fur & Feather 111: 617. Dec. 3, 1948. 49 F96

Feeds and Feeding

27951 ESCAURIAZA, R. DE. Crianza y alimentación de los conejos. Campaña 4(29): 3. Dec. 1948. 15 C152

27952 OLCESE, O., and PEARSON, P. B. Value of urea in the diet of rabbits. Soc. Expt. Biol. and Med. Proc. 69: 377-379. Ref. Nov. 1948. 442.9 Sol

Veterinary Medicine

27953 AGOSIN K., M. Hemograma normal del conejo. Biológica 5: 53-60. Ref. Dec. 1946, pub. 1948. 442.8 B5222

English summary.

27954 AMBACHE, N., MORGAN, R. S., and WRIGHT, G. P. The action of tetanus toxin on the acetylcholine and cholinesterase contents of the rabbit's iris. Brit. J. Expt. Path. 29: 408-418. Ref. Oct. 1948. 448.8 B772

27955 BRAMBELL, F. W. R., HENDERSON, M., and MILLS, I. H. The experimental induction of prenatal mortality and the subsequent elimination of the dead embryos in rabbits. J. Expt. Biol. 25: 209-218. Ref. Sept. 1948. 442.8 B77

27956 BUIS, R. Les affections à "gros ventre" chez le lapin. Réveil Agr. 57: 378; 58: 25-26. Dec. 15, 1948-Jan. 15, 1949. 14 R322  
Strongylosis.

27957 CERNY, G. Kastrieren der junggrammler. Siedler 3(12): 4. Dec. 1948. 19 S11

27958 DAVIS, C. T., SLATER, C. R., and KRICHESKY, B. Androgen:ketosteroid ratios of rabbit urine. Endocrinology 44(1): 83-87. Ref. Jan. 1949. 448.8 En2

27959 DRYSDALE, G. R., and CASEY, A. E. Search for the Brown-Pearce tumor XYZ factor in rabbit spleen. Soc. Expt. Biol. and Med. Proc. 69: 306-308. Ref. Nov. 1948. 442.9 Sol

27960 FEENSTRA, E. S., THORP, F., JR., and GRAY, M. L. Pathogenicity of Corynebacterium renale for rabbits. Amer. J. Vet. Res. 10(34): 12-25. Ref. Jan. 1949. 41.8 Am3A

27961 GASNIER, A. Sur quelques modalités de la croissance. II-V. Rev. Canad. de Biol. 7: 532-569. Ref. Nov. 1948. 442.8 R325  
English summaries.

II. Régime alimentaire et croissance. Étude sur le lapin, p. 532-539. III. Influence d'une augmentation de la teneur en manganèse de la ration. Étude sur le lapin, p. 540-550. IV. Les caractéristiques de la nutrition chez le lapereau en croissance, p. 551-558. V. Action de l'huile de foie de morue sur le développement du lapereau, p. 559-569.

27962 GERUNDO, M. Control of hepatic coccidiosis of rabbits with succinylsulfathiazole U. S. P. A study of the mode of action of the sulfonamides. Arch. Path. 46: 128-131. Aug. 1948. 448.8 Ar26

27963 KINSEY, V. E. Aqueous humor/plasma chloride ratios in rabbits, dogs, and human beings. J. Gen. Physiol. 32: 329-338. Jan. 20, 1949. 447.8 J822

27964 MELVILLE, K. I. Effects of a liver extract (Cortunon) on coronary flow in the rabbit's heart. Rev. Canad. de Biol. 7: 491-507. Ref. Nov. 1948. 442.8 R325  
French summary.

27965 MOVITZ, D., SAPHIR, O., and STRAUSS, A. A. Effects of an antireticular cytotoxic serum on the Brown-Pearce carcinoma of the rabbit. Cancer Res. 9(1): 17-26. Jan. 1949. 448.8 C16

27966 PEISS, C. N., FIELD, J., and HALL, V. E. Cholinesterase activity in normal and febrile rabbit brain. Amer. J. Physiol. 155(1): 56-59. Ref. Oct. 1, 1948. 447.8 Am3

27967 PHYLIPPS VÉLIZ, L. A., and DIMAS BAUTISTA, J. El Hemophilus cuniculi como causa de abscesos subcutáneos en conejos. Peru. Dir. de Ganad. e Indus. Pecuarías. Ganad. 2(6): 32-33. Sept. 1948. 49.9 P433

27968 PIZZI P., T., and AGOSIN K., M. Electrocardiograma normal del conejo. Biológica 5: 61-65. Dec. 1946, pub. 1948. 442.8 B5222  
English summary.

27969 SAWYER, C. H., MARKEE, J. E., and TOWNSEND, B. F. Cholinergic and adrenergic components in the neurohumoral control of the release of LH [lutinizing hormone] in the rabbit. Endocrinology 44(1): 18-37. Ref. Jan. 1949. 448.8 En2

27970 SCHERP, H. W., and SYVERTON, J. T. A chemical investigation of keratin and carcinomas deriving from rabbit papillomas (Shope). Cancer Res. 9(1): 12-16. Ref. Jan. 1949. 448.8 C16

27971 TEMPLETON, G. S. Causes of young litter mortality. Calif. Rabbit News 9(10): 3-4. Jan. 1949. 40.28 C12

27972 WILLS, J. H., and MAIN, E. Renal function in normal rabbits and dogs and the effect of uranyl salts. Amer. J. Physiol. 154: 220-228. Ref. Aug. 1, 1948. 447.8 Am3

27973 WOLF, K. H. Gesunde tiere. Kleintier-Zücht. Tierbörse 3(48): 5-6. Nov. 25, 1948. 49 K672  
Sanitary measures to prevent diseases in young rabbits.

Miscellaneous

27974 BENOIT, R., and DACCORD, A. Le lapin; élevage, races, maladies. Lausanne, Payot, 1948. 202 p. 40.2 B44

27975 BUNT, J. How to start and stay in rabbit business. Amer. Rabbit J. 18: 147-149. Nov./Dec. 1948. 40.28 Am3



- 27976 COUCH, V. M. Rabbit raising [for meat] in the East. Calif. Rabbit News 9(11): 9-10. Feb. 1949. 40.28 C12
- 27977 GADSCH, W. Erfolgreiche kaninchenhaltung; pflege, vermehrung und verwertung. Lüneburg, Kinau, 1947. 141 p. 40.2 G11
- 27978 KELLOGG, C. E. Federal activities in rabbit production. Amer. Rabbit J. 18: 149-150. Nov./Dec. 1948. 40.28 Am3
- Rabbit research in the U. S. Department of Agriculture, Bureau of Animal Industry.
- Also in Calif. Rabbit News 9(10): 5-6, 8. Jan. 1949. 40.28 C12; Small Stock Mag. 33(1): 4, 8. Jan. 1949. 48.8 P442
- 27979 LOSKY, R. F. La cría de conejos. Peru. Dir. de Ganad. Ganad. 2(5): 57-61. June 1948. 49.9 P433
- 27980 RICHARDSON, O. Mortality among meat rabbits. Calif. Rabbit News 9(11): 3-4, 6, 8. Feb. 1949. 40.28 C12
- Chiefly on sanitation.
- 27981 ROA, E. Crie y coma conejos. Agr. y Ganad. 24(12): 13-14. Dec. 31, 1948. 8 Ag834
- 27982 TUASON, A. Rabbits. Philippine Livestock Mag. 1: 156-158, 172-173, 179, 188. Sept. 1948. 49 P53
- 27983 WILSON, W. K. How and when to clip Angoras [Rabbits]. Poultry [London] 103: 516. Dec. 28, 1948. 47.8 P869
- 27984 WILSON, W. K. How to start rabbits for table. Natl. Allot. & Gard. J. 78: 10. Dec. 1948. 80 N217
- 27985 WILSON, W. K. Modern rabbit-keeping. Gt. Brit. Min. Agr. & Fisheries. B. 50, 32 p. Oct. 1948. 10 G794B

## SHEEP AND GOATS

### Breeds and Breeding

- 27986 ALVAREZ CASTRO, J. M. El empadre. Lanares y Lanos 3(12): 13-14. July/Sept. 1948. 45.8 L22
- 27987 BATCHELDER, MRS. J. Q. French Alpines thrive in New England weather. Dairy Goat J. 27(2): 7. Feb. 1949. 40.18 M592
- 27988 BLIN, H. La grande vogue du mouton Ile-de-France. Rustica 21: 923. Dec. 26, 1948. 14 R92
- 27989 BRIEF history and performances of the Guthrie Corriedale stud. Geelong, 1948. 72 p. 45 B76
- 27990 BRYANT, D. Animal breeding down under. Iowa Agriculturist 47(5): 7-8. Dec. 1948. 6 Io9
- Chiefly sheep breeding in New Zealand.
- 27991 BURDICK, R. Long hair to short hair by using French Alpine sire. Dairy Goat J. 27(2): 7. Feb. 1949. 40.18 M592
- Crossbreeding.
- 27992 CALVO, C. A. El Corriedale, una raza de doble propósito. Argentina. Dir. de Inform. P. Misc. 287, 6 p. 1948. 9 P943
- 27993 CALVO, C. A. El merino australiano. Argentina. Dir. de Inform. P. Misc. 295, 11 p. 1948. 9 P943
- 27994 CALVO, C. A. Merinos lisos o arrugados. Argentina. Dir. de Inform. P. Misc. 286, 4 p. 1948. 9 P943
- Also in Campo y Suelo Argentino 32(386): 62. Dec. 1948. 9 C15
- 27995 CARO, G. A. Defectos más importantes en los reproductores lanares. Campo y Suelo Argentino 32(385): 18, 21. Nov. 1948. 9 C15
- 27996 COXON, C. L. Breeding for improved mutton in Great Britain. Straight Furrow 8(1): 37. Nov. 1948. 281.8 S8
- 27997 GRACIA, C. E. La oveja Corriedale. Rev. Nac. de Agr. 41(506): 14-16. June 1947. 9.4 R32
- 27998 GUILLERMO, L. L'élevage de la chèvre Angora dans le sud de Madagascar. Mouton 3: 112-113. Nov. 1948. 45.8 M86
- 27999 GUNN, R. M. C. The breeding cycle of sheep in Australia. Past. Rev. 58: 1159-1160. Dec. 16, 1948. 23 Au75
- 28000 HARRIS, J. British sheep. Sheep Breeder 69(2): 3, 25, 29-30. Feb. 1949. 45.8 Am31
- 28001 HEYWOOD, R. H. British breeds. Meat Prod. & Exporter 2(11): 1-3. Nov. 1948. 286.3509 Au7M
- Sheep.
- 28002 JELOWICKI, S. Ways leading to the formation of the Polish long-wool sheep. (In Polish.) Przegl. Hodowlany 16: 329-335. Nov./Dec. 1948. 49 P952
- 28003 KAMMLADE, W. G. Wanted: good genes. Natl. Wool Grower 39(2): 12-13. Feb. 1949. 45.8 N21N
- 28004 LALL, H. K. Some common breeds of goats in India. III. Indian Farming 8: 322-327. July 1947. 22 In283
- 28005 LINK, P. El Southdown. Lanares y Lanos 3(12): 25-27. (To be cont.) July/Sept. 1948. 45.8 L22
- 28006 MILLER, R. C. The Kentucky way with lambs. Farm Q. 3(4): 46-49, 126-130. Winter 1948. 6 F22995
- Breeding and feeding.
- 28007 MUNTIAN, H. Speaking of Karakuls—here and there. Fur Farming J. 2(4): 10-11. Jan./Feb. 1949. 45 K142
- Customs and industry in southern Europe.
- 28008 NEW SOUTH WALES ROMNEY SHEEP BREEDERS' ASSOCIATION. The modern Romney Marsh. Melbourne, 1948? 24 p. 45 N474
- 28009 RUNEFORS, O. Report on sheep breeding during the year 1947. (In Swedish.) Jönköpings Läns Hushållningssällsk. Handl. och Tidskr. 1948: 49-50. 11 J732
- 28010 SCHULZ, W. E. Karakul [sheep] breeding: Better Farms 8(16): 6. Jan. 15, 1949. 6 B462
- 28011 SPENCER, D. A. Karakul sheep investigations for lambskin fur improvement and associated problems in the wool and meat of Karakul sheep. U. S. Bur. Anim. Indus. A. H. D. 123, 3 p. Dec. 1948. 1.9 An52AH
- 28012 THIBAUT, C., and others. Recherches pour avancer la saison sexuelle de la brebis et réduire à quelques jours les périodes d'insémination et d'agnelage. Acad. d'Agr. de France. Compt. Rend. 34: 885-887. Oct. 27/Nov. 3, 1948. 14 P215Bc
- R. Ortavant, Y. Desbois, and R. Laurans, joint authors.
- 28013 THIEULLOY, E. DE. Le mouton à l'étranger; quelques races anglaises à laine courte. Mouton 3: 130-131. Dec. 1948. 45.8 M86
- 28014 VERAZA Y RUBIO, A. M. Cabras granadinas y murcianas en México. Rev. de Agr. Trop. [Salvador] 14(25): 48-50. 1947. 8 R326
- 28015 WATSON, I. Review of ten years herd improvement of sheep in New Mexico, 1939-1948. N. Mex. Stockman 14(2): 55. Feb. 1949. 49 N462
- 28016 WENDORFF, H. El karakul en la Patagonia. Res 16: 23123. Dec. 20, 1948. 286.85 R31
- 28017 WENSLEYDALE LONGWOOL SHEEP BREEDERS' ASSOCIATION. Flock book of Wensleydale Longwool sheep. Grange-over-Sands, Wadsworth, 1947. v. 58, 33 p. 45.9 W482
- 28018 WILLIAMS, G. L. Progeny testing of hill rams. Gt. Brit. Min. Agr. Agriculture 55: 375-382. Dec. 1948. 10 G79J
- 28019 YOUNG, E. Improved Merino lambing percentages. Past. Rev. 58: 1160-1161. Dec. 16, 1948. 23 Au75
- 28020 ZEEB, R. Erfolgreiche milchschafhaltung; nutzung, rentabilität, zucht, haltung naturgemässe heilweise. Ed. 5. Berlin, Siebeneicher, Verlag, 1947. 59 p. 45 Z2
- East Friesian milk sheep.

### Feeds and Feeding

- 28021 GILCH, R. Füttere ich meine ziegen richtig? Kleintier-Zücht. Tierbörse 3(47): 10-11; (48): 9-10. Nov. 10-25, 1948. 49 K672
- 28022 GILCH, R. Vitaminfragen bei der ziege. Kleintier-Zücht. Tierbörse 3(48): 10-11; (49): 11-12. Nov. 25-Dec. 10, 1948. 49 K672
- 28023 MODIANOV, A. V. Determining standards for the feeding of growing pedigree sheep. (In Russian.) Vsesoyuzn. Nauch. Issled. Inst. Zhivotn. Trudy 15: 132-166. Ref. 1947. 49.9 R92
- 28024 ORTAVANT, R., and THIBAUT, C. Utilisation de la levure de distillerie et d'aliments riches en acides aminés soufrés dans l'alimentation des brebis allaitantes. Acad. d'Agr. de France. Compt. Rend. 34: 881-885. Oct. 27/Nov. 3, 1948. 14 P215Bc
- 28025 QUINQUIS, J. L'influence de l'alimentation sur la production laitière. Bouches du Rhone Agr. 22(994): 11. (To be cont.) Jan. 15, 1949. 14 B662
- Goats.



28026 SANDERSON, C. J. Effect of supplementary feed on wool growth. Land [Sydney] 1943, i. e., 1933: 18. Nov. 19, 1948. 23 L22

28027 SHEEHY, E. J. The animal on the farm. The diet of sheep; concentrates. Agr. Ireland 5: 268-269, 271. Dec. 1948. 10.5 Ag8  
No. 62 of the series.

28028 TURNER, C. W. Thyro-active lactation stimulant for dairy goats. Dairy Goat J. 27(1): 6-7. Jan. 1949. 40.18 M592

28029 VARDEHAUG, A. The sheep are snowed in. (In Norwegian.) Norsk Landbr. 14: 456. Dec. 10, 1948. 11 N8122

Fall pastures for sheep.

#### Veterinary Medicine

28030 ABDUSSALAM, M., and BLAKEMORE, F. Some observations on proliferative dermatitis of the legs—"strawberry foot rot" of sheep. J. Compar. Path. & Ther. 58: 333-337. Oct. 1948. 41.8 J82

28031 ACCAME, F., and SAN MARTIN, M. Inseminación artificial de lanares en la Altura. Peru. Dir. de Ganad. Ganad. 2(5): 43-47. Ref. June 1948. 49.9 P433

28032 ALSTON, J. T. Successful urethrotomy in a goat. Vet. Med. 44(1): 43. Jan. 1949. 41.8 M69

28033 AULT, C. N. Merma en la actividad de los baños antisépticos. Uruguay. Min. de Ganad. y Agr. B. Inform. 237: 13. Sept. 23, 1948. 9.9 G15B  
Sheep dips.

28034 BLANCO LOIZELLIER, A. Mal rojo en la oveja. Veterinaria 12: 841-844. Ref. Dec. 1948. 41.8 V6429

28035 BLIN, H. La diarrhée des agneaux nouveaux. Mouton 3: 128. Dec. 1948. 45.8 M86

28036 BLIN, H. La mammitte gangréneuse des brebis. Mouton 3: 116. Nov. 1948. 45.8 M86

28037 BOGOLIUBSKI, S. N. Some general and specific regularities in the ontogenetic development of sheep. (In Russian.) Akad. Nauk SSSR. Izv., Ser. Biol. 1948: 307-313. Ref. May/June 1948. 511 Sa2B

28038 COLE, V. G. Illness in sheep following dipping in "gammexane" dip. Austral. Vet. J. 24: 295-297. Nov. 1948. 41.8 Au72

28039 COLLADO, L. Morrera de los lanares (ectima). Lanares y Lanos 3(12): 12. July/Sept. 1948. 45.8 L22

28040 DARLAN, L. A. La tenia festoneada o tenia del hígado (Thysanosoma actinioides). Buenos Aires. Dir. Med. Vet. B. 5(23/26): 18-23. 1948. 41.9 B865  
Fringed tapeworm in sheep.

28041 DOLL, E. R., and WALLACE, M. E. Serum levels of streptomycin in sheep. Vet. Med. 44: 70-72. Feb. 1949. 41.8 M69

28042 EDWARD, D. G. FF. Immunization [of sheep] against louping ill. Vaccines prepared from chick embryos. Brit. J. Expt. Path. 29: 367-372. Ref. Oct. 1948. 448.8 B772

28043 FILMER, J. F. Foot-rot in sheep can be eradicated. New Zeal. J. Agr. 77: 465, 467-468. Nov. 1948. 23 N48J

28044 FIORDA, H. Sarna ovina. Campo y Suelo Argentino 32(385): 10-12, 15. Nov. 1948. 9 C15

28045 GILL, D. A. Illness associated with lameness in sheep after dipping [in benzene hexachloride preparation]. Austral. Vet. J. 24: 297-302. Nov. 1948. 41.8 Au72

28046 GORDON, H. M. The anthelmintic efficiency of phenothiazine sulphoxide against *Oesophagostomum columbianum* in sheep. Austral. Vet. J. 24: 335-336. Ref. Dec. 1948. 41.8 Au72

28047 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Louping ill in sheep. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 16, 2 p. Nov. 1948. 41.9 G792A

28048 GREEN, R. J. Footrot and foot abscess [of sheep]. Tasmanian J. Agr. 19: 233-236. Nov. 1948. 23 T182T

28049 GUILHON, J., and RIOUX, J. Action des sels organiques d'antimoine sur *Dicrocoelium lanceolatum*. Acad. Vét. de France. B. 21: 343-345. Oct. 1948. 41.9 R24

In sheep.

28050 GUILHON, J., and RIOUX, J. Recherches sur la toxicité des sels organiques d'antimoine pour *Dicrocoelium lanceolatum*. Acad. Vét. de France. B. 21: 381-385. Nov. 1948. 41.9 R24

Experiments with infested sheep.

28051 HARBOUR, H. E., and KERSHAW, G. F. Erysipelothrix rhusiopathiae infection in sheep. Two outbreaks of post-dipping lameness. Vet. Rec. 61: 37-38. Jan. 22, 1949. 41.8 V641

28052 HARRISS, S. T. Proliferative dermatitis of the legs ("strawberry foot rot") in sheep. J. Compar. Path. & Ther. 58: 314-328. Ref. Oct. 1948. 41.8 J82

28053 HORGAN, E. S., and HASEEB, M. A. The immunological relationship between a new virus, proliferative dermatitis of the legs ("strawberry foot rot") of sheep, and the viruses of vaccinia and contagious pustular dermatitis. J. Compar. Path. & Ther. 58: 329-332. Oct. 1948. 41.8 J82

28054 JENSEN, R., TOBISKA, J. W., and WARD, J. C. Sodium fluoroacetate (compound 1080) poisoning in sheep. Amer. J. Vet. Res. 9: 370-372. Ref. Oct. 1948. 41.8 Am3A

28055 JOHANSON, R., MOIR, R. J., and UNDERWOOD, E. J. Sulphur-containing amino-acids in the rumen bacteria of sheep. Nature [London] 163: 101. Ref. Jan. 15, 1949. 472 N21

28056 JORDAN, R. M. Lambing time. Stock & Dairy Farmer 37(3): 6-7. Jan. 1949. 6 N8195

28057 KOISTINEN, O. A. Über die gärgung der nativen kohlehydrate des holzes durch einwirkung von mesophilen bakterien aus dem verdauungskanal des schafes. Helsinki, 1948. 73 p. 448.2 K824  
Diss.-Tech. Hochschule, Helsinki.

28058 KYD, S. Controlling sheep parasites. Okla. Agr. Col. Ext. C. 492, 4 p. 1948? 275.29 Ok41C

28059 LAPAGE, G. The menace of the roundworm. New Biol. 3: 49-81. 1947. 442.8 J63  
Haemonchus contortus in sheep.

28060 MCDOUGALL, E. I. Studies on ruminant saliva. 1. The composition and output of sheep's saliva. Biochem. J. 43: 99-109. Ref. 1948. 382 B52

28061 MARSH, H. Treatment of blue-bag. Mont. Wool Grower 23(2): 19. Feb. 1949. 45.8 M762  
Sulfamethazine for mastitis in ewes.

28062 MINETT, F. C. Pathogenesis of black quarter [in sheep]. II-III. J. Compar. Path. & Ther. 58: 245-266. Ref. Oct. 1948. 41.8 J82

II. Influence of nutrition and of muscular exercise. III. Effect of chilling agencies.

28063 MOULE, G. R. The tail strip operation. Queensland Agr. J. 67: 227-229. Oct. 1948. 23 Q33  
On sheep and lambs.

28064 OLSEN, O. W. Fasciolicidal efficacy of hexachloroethane-bentonite suspension in goats. Amer. J. Vet. Res. 10(34): 71-73. Jan. 1949. 41.8 Am3A

28065 PHILLIPS, R. Relationship between the average carcass weight of rams, ewes and lambs. Nature [London] 163: 100. Jan. 15, 1949. 472 N21

28066 POMMIER, M. E. Ostéodystrophie du maxillaire inférieur de la chèvre. Rec. de Méd. Vét. 124: 510-511. Nov. 1948. 41.8 R24

28067 ROTHSCILD, LORD. The activity of ram spermatozoa. J. Expt. Biol. 25: 219-226. Ref. Sept. 1948. 442.8 B77

28068 SANDERSON, C. J. Botulism in sheep mostly a dry season disease. Land [Sydney] 1946, i. e., 1936: 18. Dec. 10, 1948. 23 L22

28069 SCHINCKEL, P. G. Infertility in ewes grazing subterranean clover pastures. Observations on breeding behaviour following transfer to "sound" country. Austral. Vet. J. 24: 289-294. Nov. 1948. 41.8 Au72

28070 STEWART, J., and ROBERTSON, H. The effect of BAL on the urinary copper excretion of sheep. Biochem. J. 43: xxii-xxiii. 1948. 382 B52

28071 TINER, J. D., and CHIN, T. H. The occurrence of Trichuris globulosa (Nematoda: Trichuroidea) in China. North Amer. Vet. 30: 97. Feb. 1949. 41.8 N812  
In sheep and goats.

28072 VILANOVA, J. Historia de accidentes en un rebafio lanar que bien pudiera tratarse de epizootia. Lérida Ganad. 3: 171-172. Aug. 1948. 41.8 L56  
Unexplained mortality.

28073 WHITE, I. G., BLOOD, D. C., and WHITEM, J. H. Arsenic poisoning in sheep. Austral. Vet. J. 24: 331-334. Ref. Dec. 1948. 41.8 Au72

28074 WHITTEN, L. K. Prevention of worms in lambs and hoggets. New Zeal. J. Agr. 77: 576. Dec. 1948. 23 N48J



Miscellaneous

- 28075 BERMEJO ZUAZÚA, A. Mi oveja No. 89. *Agricultura* [Madrid] 17: 502-506. Nov. 1948. 15 Ag84
- 28076 CALDAS FILHO, C. F. The sheep and goats at the 15th National Livestock Show. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(337): 62. Oct. 1948. 9.2 B733
- 28077 CAYSSIALS, A. A. Selección y factores a tener en cuenta en la crianza ovina del Uruguay. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 244: 13, 10; 245: 19; 247: 21-22. (Cont.) Nov. 11-18, Dec. 2, 1948. 9.9 G15B
- 28078 COWAN, W. A. Become a record maker—it will pay. *New England Homestead* 121(21): 8. Nov. 13, 1948. 6 N442
- Records of ewe and lamb production.
- 28079 DOMANSKI, A. Some remarks on the Polish long-wool sheep with special attention to the sheep of "Łowicz." (In Polish.) *Przegl. Hodowlany* 16: 335-338. Nov./Dec. 1948. 49 P952
- English summary.
- 28080 DUCK, R. W. In the lambing pen. *Rural New-Yorker* 99: 54, 58. Jan. 15, 1948. 6 R88
- 28081 FRASER, A. The place of sheep in British agriculture. *Farming* [Norwich] 2: 376-379. Dec. 1948. 10 F2236
- Management.
- 28082 GALINDO, A. Algo sobre ovejas. *Cult. Mod.* 31: 340. Sept. 1948. 15 C89
- 28083 HERZOG, H. Schaf und wolle. *Grüne* 76: 1229-1252. Nov. 1948. 17 Sch9
- 28084 HEYER, F. Der schaf-bauer. *Zella/Rhön, Hofmann*, 1947? 24 p. 45 H49
- 28085 HUGHES, A. E. How to read a wool brand on sheep. *Tasmanian J. Agr.* 19: 224-226. Nov. 1948. 23 T182T
- 28086 HUNDT, H. Die arbeit der deutschen milch-schafzüchter. *Süddeut. Schäfereiztg.* 38: 206. Nov. 20, 1948. 45.8 Su2
- Arbeitsgemeinschaft Deutscher Schafzüchter.
- 28087 JANKOWSKI, S. Estimation of the wool yield. (In Polish.) *Przegl. Hodowlany* 16: 344-346. Nov./Dec. 1948. 49 P952
- 28088 JAUME, J. Economia Balear—la cabra. *Balearic Isl. Diputación Prov. B. de Agr.* 1948(49): 2-3. Oct. 1948. 15 B19
- 28089 LAMOND, H. G. Handling stock as individuals. *III. Past. Rev.* 58: 1166-1167. Dec. 16, 1948. 23 Au75
- Sheep and lambs.
- 28090 LEACH, C. E. Kids are rugged, but give them a chance. *Dairy Goat J.* 27(2): 8. Feb. 1949. 40.18 M592
- 28091 MACHLEIDT, B. Wichtige fragen der läm-meraufzucht. *Süddeut. Schäfereiztg.* 38: 189-191. Nov. 6, 1948. 45.8 Su2
- 28092 MORRIS, W. E. Winter care of breeding sheep. *Cent. Co-op. Shipper* 29(1): 6. Jan. 1949. 280.38 C78
- 28093 MUJICA, J. Las primeras ovejas patagónicas. *Res* 17: 23186-23188. Jan. 5, 1949. 286.85 R31
- 28094 ROSE, P. D. Sheep on the dairy farm. (In Afrikaans.) *So. African Dairyman* 10: 421. Dec. 1948. 44.8 So822
- 28095 SENTEX, J. Le controle laitier ovin du camarès en 1948. *Mouton* 3: 123-125. Dec. 1948. 45.8 M86
- Chiefly milk production and composition.
- 28096 SHANNON, J. L. Care and management of dairy goats in Trinidad and Tobago. *Trinidad & Tobago, Agr. Soc. Proc.* 47: 215-217, 219-221, 223-225, 227-228. Sept. 1947. 8 T73
- 28097 SIERRA, J. DE LA. Pinceladas. *B. Zootec.* 4: 71-72. Mar. 1, 1948. 41.9 Sol6
- On wool production of sheep.
- 28098 STAUBMANN, W., and KOHLMAIER, J. Gedanken zur schafzucht und schafhaltung in Kärnten. *Kärntner Bauer* 98: 371-373. Nov. 15, 1948. 19 K14
- 28099 WEBER, H. Lehrbuch für schäfer und schafhalter, haltung und fütterung des schafes und seine krankheiten. Ed. 5, rev. Berlin, Parey, 1948. 188 p. 45 W38
- 28100 ZEEB, R. Der praktische ziegenzüchter und ziegenhalter. Ed. 2/3. Stuttgart, Ulmer, 1947. 46 p. 40.1 Z2

SWINEBreeds and Breeding

- 28101 BECKETT, J. Duroc PR [Production Registry] moves forward in '48. *Duroc News* 23(2): 18-20, 108, 110-111. Feb. 1949. 46.8 N212
- 28102 BELTRÁN, J. M. Razas porcinas. *Nuestros Amigos* 5(52): 14. (Concl.) Sept. 1948. 48.8 N88
- 28103 BRITTIN, W. Berkshire boars are widely accepted by farmer hog raisers. *Berkshire News* 14(3): 6, 61-62. Jan. 1949. 46.8 B454
- 28104 CANADIAN SWINE BREEDERS' ASSOCIATION. Canadian national record for swine. v. 59. Yorkshire, Berkshire, Chester White, Tamworth, Hampshire, Poland China, Duroc Jersey, and Large Black. Owen Sound, 1948. 412 p. 46.9 D71
- 28105 HUGHES, E. H. Bacon type—breeders lay plans for West Coast hog. *West. Livestock* 27(6): 161. Dec. 15, 1948. 6 F2278
- 28106 HUGHES, E. H. California swine type discussed by Prof. Hughes. *Chester White J.* 39(1): 5-6. Jan. 1949. 46.8 W582
- 28107 JONES, H. My slant on production registry; effective decrease in hazards of production can be accomplished by complete records. *Amer. Hampshire Herdsman* 24: 22. Jan. 1949. 46.8 Am33
- 28108 MCAULIFFE, W. S. Baconer Carcass Competition, Kadina district. *So. Austral. Dept. Agr. J.* 52: 178-181. Nov. 1948. 23 So84
- 28109 MADISON, L. C. Western Pennsylvania Berkshire hotbed. *Berkshire News* 14(4): 24-25. Feb. 1949. 46.8 B454
- 28110 MELLO, J. M. DE. Rational swine breeding. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(337): 66-67. Oct. 1948. 9.2 B733
- 28111 PEMBERTON, R. A new all time high; production bred and tested Hampshires. *Amer. Hampshire Herdsman* 24: 14, 20. Jan. 1949. 46.8 Am33
- 28112 RAWN, B. Another big year for Duroc barrow championships. *Duroc News* 23(1): 103, 105. Jan. 1949. 46.8 N212
- 28113 RUNEFORS, O. Report on the swine awards and the inspection of boars during the year 1947. (In Swedish.) *Jönköpings Läns Hushållningssällsk. Handl. och Tidskr.* 1948: 51-52. 11 J732
- 28114 SCHREUDER, P. J. V. D. H. Pig production. *Farming So. Africa* 23: 655-664, 674. Oct. 1948. 24 So842
- Chiefly breeds and breeding.
- 28115 STEC, J. New problems in Polish pig breeding. (In Polish.) *Przegl. Hodowlany* 16: 302-308. Oct. 1948. 49 P952
- 28116 SWAIN, J. B. Guarda el mismo compás la producción mundial de alimentos que el aumento de la población? *Res* 16: 23081-23083. Dec. 5, 1948. 286.85 R31
- Production of an improved breed of swine for meat production.
- 28117 WINTERS, L. M., and others. Experiments with inbreeding swine. *Minn. Agr. Expt. Sta. B.* 400, 28 p. June 1948. 100 M66
- D. L. Dailey, P. S. Jordan, O. M. Kiser, R. E. Hodgson, J. N. Cummings, and C. F. Sierk, joint authors.
- 28118 ZELLER, J. H. Breeds of swine. *Farmer & Dairyman* 40(512, i. e., 502): 29. (To be cont.) Nov. 1948. 23 F225
- 28119 ZORN, W. Schweinezucht und schweinmast. Ed. 3. Stuttgart, Ulmer, 1947. 152 p. (Tierzucht-bücherei) 46 Z7

Feeds and Feeding

- 28120 BRÜGGEMANN, H. Neuzeitliche schweinemast. *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 317-318. Nov. 20, 1948. 18 L2346
- 28121 CANO, A. E. Leche y sus sub-productos en la alimentación de porcinos. *Rev. Ganad. [Habana]* 8(12): 40-41. Dec. 1948. 49 R321
- 28122 CATRON, D. Feed your pigs before they're born. *Duroc News* 23(1): 29. Jan. 1949. 46.8 N212
- 28123 DUCK, R. W. Hogs and milk by-product feeds. *Rural New-Yorker* 99: 14, 16. Jan. 1, 1949. 6 R88
- 28124 GARRAD, G. H. Pigs on the general farm. *Kent Farmers' J.* 64: 88-89. Dec. 1948. 10 K41
- Chiefly feeding.



28125 GAZTAMBIDE ARRILLAGA, C. Raciones para cerdos. Dominican Repub. Sec. de Estado de Agr. Pecuaria y Colon. Agr. 39(181): 36-40. Nov./Dec. 1948. 8 R323

28126 GRACIA, C. E. La industria de los cerdos en Colombia. Rev. Ganad. [Habana] 9(1): 37-40. Jan. 1949. 49 R321

#### Feeding.

28127 GRANT, R. Pigs as insurance against vegetable gluts. Grower 31: 107. Jan. 15, 1949. 286.83 M34

28128 HEATH, M. E. Hogs, a bigger market for forage. Successful Farming 47: 30-31, 91-93. Jan. 1949. 6 S12

More forage, less corn in the ration.

28129 HERNÁNDEZ SÁNCHEZ, C. Alimentación del cerdo. La Habana, Ministerio de Agricultura, 1947. 20 p. 389.7 H43

28130 HÜBNER. Richtige schweinmast. Salzburg. Bauer 4(3): 1. Jan. 20, 1949. 19 Sa3

28131 MADSEN, L. L. Swine nutrition. Iowa Vet. 20(1): 10-12, 22. Jan./Feb. 1949. 41.8 I69

28132 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Feeding pigs for profit. Sydney, Tennant, 1948. 23 p. 389.7 N472

28133 NORDFELDT, S. Importance of vitamin A in swine feeding. (In Swedish.) Kalmar Läns Norra Hus-hållningssällsk. Kvrtlsskr. 8: 120-122. 1948. 11 K12

28134 NORDFELDT, S. In a difficult situation all possibilities must be utilized; current feeding problems in the swine industry. (In Swedish.) Lantmannen 33: 11-12. Jan. 1, 1949. 11 L234

28135 OSPINA O., G. Alimentación de cerdos recién destetados. Campo [La Paz] 2(16): 10-11. Aug. 1948. 9.1 C15

28136 PETERS, W. H., and FERRIN, E. F. Winter rations for the brood sows. Hog Breeder 24(1): 12-13, 30. Jan. 1949. 46.8 H672

28137 PINKERTON, H. E. La nutrición y las enfermedades de los cerdos. Indus. Lechera 30: 665-668. Oct. 1948. 44.8 In26

28138 WASSON, R. A., and FITZGERALD, A. D. Hogging-off corn and soybeans. La. Agr. Col. Ext. Leaflet 21, 4 p. 1948? 275.29 L93EL

#### Veterinary Medicine

28139 ANDERSON, J. The herd sow at farrowing time. Poland China World 36(1 i.e. 2): 7. Feb. 1949. 46.8 Sw62

28140 BANKS, W. C., and REGENBRECHT, E. M. The use of sodium fluoride for worming hogs. Tex. Agr. Col. Ext. Leaflet L-84, 4 p. Sept. 1948. 275.29 T313

28141 BOWLAND, J. P., and others. Effect of lactation and ration on the fat and vitamin A level of sow's milk. J. Dairy Sci. 32: 22-28. Ref. Jan. 1949. 44.8 J822

R. H. Grummer, P. H. Phillips, and G. Bohstedt, joint authors.

28142 COFFEE, W. M. Problems of swine production. Sound advice on these problems is profitable to the swine raiser and to the veterinarian. Vet. Med. 44: 114-115. Mar. 1949. 41.8 M69

28143 COMANDINI, G. Poliomyelitis in swine, poultry, and rats. (In Italian.) Clin. Vet. [Milan] 71: 268-269. Aug. 1948. 41.8 C61

28144 DIEGO, A. I. DE. Aislamiento del Erysipelothrix rhusiopathiae en la República Argentina. Gac. Vet. 10: 199-200. Sept./Oct. 1948. 41.8 G112

28145 DILLARD, F. There's a difference—in production ability of sows. Duroc News 23(1): 114-115. Jan. 1949. 46.8 N212

28146 EGEHØJ, J. Eczema in Danish hogs. Amer. Vet. Med. Assoc. J. 114: 73. Feb. 1949. 41.8 Am3

28147 FIGUEROA INFANTE, J. La peste porcina. Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad. 2(6): 56-57. Sept. 1948. 49.9 P433

28148 FOSTER, A. O., and others. The status of the sodium fluoride treatment for removal of large roundworms [Ascaris lumbricoides] from swine. Amer. J. Vet. Res. 9: 379-385. Ref. Oct. 1948. 41.8 Am3A

F. D. Enzie, R. T. Habermann, and R. W. Allen, joint authors.

28149 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Swine fever. Gt. Brit. Min. Agr. & Fisheries. Anim. Health Leaflet 20, 4 p. Dec. 1948. 41.9 G792A

28150 GRECO, I. The bacterial flora in hog cholera in Lombardy. (In Italian.) Clin. Vet. [Milan] 71: 352-353. Nov. 1948. 41.8 C61

28151 GWATKIN, R., and others. Rhinitis of swine. III. Transmission to baby pigs. Canad. J. Compar. Med. 13(1): 15-28. Jan. 1949. 41.8 C162

P. J. G. Plummer, J. L. Byrne, and R. V. L. Walker, joint authors.

28152 HISAW, F. L., and ZARROW, M. X. Relaxin in the ovary of the domestic sow (Sus scrofa L.). Soc. Expt. Biol. & Med. Proc. 69: 395-398. Dec. 1948. 442.9 S1

28153 JONG SZN, S. DE. Number of teats of swine. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandbl. 5: 562-565. Ref. Dec. 1948. 12 N383M

28154 JOSLAND, S. W. Salmonellosis of swine in New Zealand. New Zeal. Dept. Agr. Anim. Res. Div. P. 42, 2 p. 1947. 49.9 N482P

28155 KUDRIAVTSEV, P. N., and GLEBINA, E. I. Relation between the various methods of udder massaging, estrus manifestation and ovulation in swine. (In Russian.) Vsesoyuzn. Inst. Zhivotn. Trudy 15: 113-131. Ref. 1947. 49.9 R92

28156 LANGUASCO, F. A. Vacunación de cerdos. Campo y Suelo Argentino 32(385): 59. Nov. 1948. 9 C15

28157 LOSKY, R. F. La edad de los cerdos. Peru. Dir. de Ganad. Ganad. 2(5): 55-56. June 1948. 49.9 P433

Telling age of swine by teeth.

28158 MACPHERSON, O. M. Worm diseases in pigs; methods of prevention and control. Agr. Gaz. N. S. Wales 59: 542-546, 573-576. Oct.-Nov. 1948. 23 N472

28159 MERTZ, E. T., and others. Effect of the amino acid hexahomoserine on growth and hematopoiesis in swine. Soc. Expt. Biol. & Med. Proc. 69: 609-611. Dec. 1948. 442.9 S1

28160 MORGAN, R. Hernia operation in a pig. Vet. Med. 44: 133-134. Mar. 1949. 41.8 M69

28161 MUMA, M. H., and HIXSON, E. Hog mange control with benzene hexachloride and other materials. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 58-59. 1948. 423.9 Am32

28162 NÉVOT, A., GOUYGOU, C., and HAUTEFORT, M. Reins polykystiques chez le porc. Acad. Vét. de France. B. 21: 365-367. Nov. 1948. 41.9 R24

28163 PARKER, W. H., and BROOKSBANK, N. H. Suspected salt poisoning in pigs. Vet. Rec. 61: 4-5. Jan. 1, 1949. 41.8 V641

28164 PULLAR, E. M. Infectious pneumonia of pigs. I. General description, differential diagnosis and epidemiology. Austral. Vet. J. 320-330. Ref. Dec. 1948. 41.8 Au72

28165 REINHART, V. M. Salt poisoning in swine. North Amer. Vet. 29: 711. Nov. 1948. 41.8 N812

28166 SCHMID, G. Ueber die bekämpfung des ferkelrusses. Grüne 76: 1267-1270. Nov. 26, 1948. 17 Sch9

28167 SELLARDS, G. A pig likes it clean. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 64: 15. Jan. 1949. 6 P945

Sanitation practices for prevention of roundworms.

28168 SIPPEL, W. L. Bleeding hogs from the vena cava. Jen-Sal J. 32: 4-5. Jan./Feb. 1949. 41.8 J45

28169 SORCETTI, F. Observations on the umbilical cord in some mammals. II. Sus scrofa. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 409-410. Apr. 1948. 442.8 S12

28170 SWAN, L. C. Observations on an arthritic condition in swine associated with pellagra. Canad. J. Compar. Med. 13(1): 12-15. Jan. 1949. 41.8 C162

28171 TRAWINSKI, A. Prophylactic vaccination against swine erysipelas. (In Polish.) Med. Wet. 4(11): 681-685. Ref. Nov. 1948. 41.8 M463

English summary.

28172 VAITSMAN, J. Sometimes it isn't hog cholera (In Portuguese.) Rev. dos Criadores 19(10): 126. Oct. 1948. 43.8 R32

Some diseases of swine.

28173 WEST, G. P. Reducing the mortality among young pigs. Pig Breeders' Gaz. 57: 17-18. Dec. 1948. 46.8 N21

28174 WINTROBE, M. M., and CARTWRIGHT, G. E. Experimental anemias in swine and their relation to liver extract deficiencies. Assoc. Amer. Physicians, Trans. 61: 293-300. Ref. 1948. 448.9 As7



Miscellaneous

- 28175 AUBEL, C. E. Swine production in Kansas. Kans. Agr. Expt. Sta. B. 334, 75 p. Feb. 1949. 100 K13S
- 28176 BOUCHER, H. For profitable pigs, test your own sows. Breeder's Gaz. 114(2): 5, 30. Feb. 1949. 49 B74
- 28177 BRANIGAN, V. Bred sow offerings buyer's opportunity. Berkshire News 14(3): 9, 22-23, 26. Jan. 1949. 46.8 B454
- 28178 COFFEY, J. S. Save the pig crop. Berkshire News 14(4): 4, 46-47. Feb. 1949. 46.8 B454
- 28179 DAVIDSON, H. R. Keeping the pig flag flying. Farmer & Stock-Breeder 63: 212. Jan. 25, 1949. 10 F228
- Pig stocks in Scotland.
- 28180 DILLARD, F. Big pigs best. Berkshire News 14(3): 48, 50. Jan. 1949. 46.8 B454
- 28181 DUCK, R. W. Inside the pig pen. Rural New-Yorker 98: 688, 690. Nov. 6, 1948. 6 R88
- 28182 GALINDO, A. El cerdo. Ceres [Valladolid] 12(149): 14-15. Nov. 1, 1948. 15 C33
- 28183 LONGWILL, A. Pig carcass competitions help to maintain quality. New Zeal. J. Agr. 77: 369, 371-372. Oct. 1948. 23 N48J
- 28184 MORALES, P. T. Cría de cerdos; estado de salud y de enfermedad. Chacra 19(219): 19-20. Jan. 1949. 9 C34
- 28185 RODÓN, J. M. La crianza del cerdo en la economía rural. Cult. Mod. 31: 341-342. Sept. 1948. 15 C89
- 28186 RODÓN, J. M. La crianza de cerdos. Cult. Mod. 30: 449-450. Dec. 1947. 15 C89
- 28187 RUPP, E. How can pork be scarce! Kans. Farmer 86(2): 26-27. Jan. 15, 1949. 6 K13
- Swine production management.
- 28188 SOLIS, M. Tipos, clases y razas de cerdos y su preparación para exhibirlos. Ed. 2. Panamá, Impr. Nacional, 1948. 17 p. 46 So4
- 28189 SPITAL, Aus der westfälischen schweinezucht. Landw. Wchnbl. f. Westfalen u. Lippe 105: 345-346. Dec. 4, 1948. 18 L2346

ENTOMOLOGYGENERAL

- 28190 APARICIO SÁNCHEZ, G. Problema general de la variabilidad. Zootecnia 7(15/18): 1-17. Jan./Dec. 1946, pub. July 1948. 41.8 G15
- Observations on insects and livestock.
- 28191 BEAMENT, J. W. L. The role of wax layers in the waterproofing of insect cuticle and egg-shell. Faraday Soc. Discuss. 1948(3): 177-182. 382 F22D
- 28192 BERRILL, N. J. Living lamps. Nat. Hist. 58: 36-41. Jan. 1949. 500 N483J
- Luminescence in insects and other organisms.
- 28193 BORGMEIER, T. Bibliografía. Rev. de Ent. 19: 595-616. Dec. 1948. 421 R326
- 28194 BOSCHMA, H. The activities of the International Commission on Zoological Nomenclature from Jan. 1, 1946 to July 27, 1948. (In Dutch.) Ent. Ber. 12: 292-295. (To be cont.) Nov. 1, 1948. 420 N38B
- 28195 BURR, M. Field notes from Anatolia. V. Zonguldak. Ent. Rec. & J. Variation 60: 112-115. Nov. 1948. 421 En89
- 28196 CASTEJÓN, M. G. DE. Animales dañinos a los árboles. Ceres [Valladolid] 12(149): 28-29, 31. Nov. 1, 1948. 15 C33
- Fruit pests and their control.
- 28197 CIACCIO, G. Essais d'inoculation de Rickettsia prowazeki et Rickettsia mooseri chez les insects. Etude des anticorps spécifiques. Inst. Pasteur Ann. 75: 585-586. Dec. 1948. 448.3 An75
- Studies with Bombyx mori and Tenebrio molitor.
- 28198 CONTROL of equilibrium in the flying insect. Nature [London] 163: 74-75. Jan. 8, 1949. 472 N21
- 28199 CRISP, D. J., and THORPE, W. H. The water-protecting properties of insect hairs. Faraday Soc. Discuss. 1948(3): 210-220. 382 F22D
- Discussion, p. 220-239.
- 28200 DIAKONOFF, A. An improved method for mounting genitalia preparations. (In Dutch.) Ent. Ber. 12: 259-260. July 1, 1948. 420 N38B
- 28201 EMERICK, R. H. Miracle-worker: the backyard naturalist. Hunting & Fishing 26(1): 37, 54. Jan. 1949. 410 H922
- Includes spider-ant fight.
- 28202 FRASER, T. P. Entomology as a vocation, introduced through the study of general biology. Turtox News 26: 284-285. Dec. 1948. 442.8 T86
- 28203 HARRINGTON, R. W., JR. The food of the bridled shiner, Notropis bifrenatus (Cope). Amer. Midland Nat. 40: 353-361. Ref. Sept. 1948. 410 M58
- Includes insects.
- 28204 GOLDSCHMIDT, R. B. Ecotype, ecospecies, and macroevolution. Experientia 4: 465-472. Dec. 15, 1948. 475 Ex7
- German summary.
- Insects as examples.
- 28205 HAWES, R. S. Animal life in caves. New Biol. 3: 82-103. 1947. 442.8 J63
- Includes some insects.
- 28206 HOOD, J. D. J. Douglas Hood: Bibliography of scientific papers. Rev. de Ent. 19: 499-508. Dec. 1948. 421 R326
- 28207 HURST, H. Asymmetrical behaviour of insect cuticle in relation to water permeability. Faraday Soc. Discuss. 1948(3): 193-210. 382 F22D
- 28208 LATTA, R. Observations on entomology in Argentina. (Abs.) Ent. Soc. Wash. Proc. 50: 227-228. Nov. 1948. 420 W27
- 28209 MILLARA, P. Recherches sur les organes scolopidiaux de la base des antennes. I. Insectes inférieurs. Soc. d'Hist. Nat. de l'Afrique du Nord, B. 38(1/9): 32-44. Ref. Jan./Dec. 1947. 410.9 So125
- Observations on Blattella germanica, Forficula auricularia, Lepisma saccharina, and Machilis sp.
- 28210 MILNE, L. J., and MILNE, M. J. Temperature and life. Sci. Amer. 180(2): 46-49. Feb. 1949. 470 Sci25
- Includes insects.
- 28211 MONTE, O. Synonymical notes. (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 8: 231-237. Sept. 13, 1947. 410.9 Sa63
- English summary.
- 28212 PETERSON, A. Larvae of insects. An introduction to Nearctic species. Columbus, Ohio, 1948: pt. 1, 315 p. 422 P442L
- Lepidoptera and plant infesting Hymenoptera.
- 28213 POPHAM, E. J. Experimental studies of the biological significance of non-cryptic pigmentation with special reference to insects. London. Zool. Soc. Proc. 117: 768-783. Ref. Feb. 1948. 410.9 L84P
1. Color vision of predators [including Aeshna grandis and Dytiscus marginalis]. 2. The conspicuousness of color to predators. 3. Acceptable prey. 4. The effectiveness of warning coloration.
- 28214 PRYOR, M. G. M. Hardness and colour of insect cuticle. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 23: 96-97. Dec. 28, 1948. 420 L84Pa
- 28215 REHN, J. W. H. Permanent mounts of dissections to be kept with pinned specimens. Ent. News [Philadelphia] 59: 242-243. Nov. 1948. 421 En88
- 28216 ROSEDALE, J. L. Nucleic acid of insects. Ent. Soc. South. Africa J. 11: 34-37. Sept. 30, 1948. 420 En86
- 28217 SCHULMAN, J. H. Water-protecting properties of cuticles. Faraday Soc. Discuss. 1948(3): 169-172. 382 F22D
- Insects chiefly.
- 28218 SWEZEY, O. H. Insect invaders in Hawaii during and since World War II. J. Econ. Ent. 41: 669-672. Oct. 1948. 421 J822
- 28219 TJEDER, B. Insects from southern Bohuslän 1946. (In Swedish.) Ent. Tidskr. 69: 215-216. 1948. 421 En891
- 28220 TORRE-BUENO, J. R. DE LA. Entomology in the United States. Brooklyn Ent. Soc. B. 43: 141-148. Dec. 1948. 420 B79
- 28221 TORRE-BUENO, J. R. DE LA. Some more entomologists. Brooklyn Ent. Soc. B. 43: 150-153. Dec. 1948. 420 B79
- 28222 TRAVASSOS FILHO, L., and PEREIRA, C. Regulation of humidity of porous clay vessels for rearing arthropods. (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 8: 123-126. June 25, 1947. 410.9 Sa63
- English summary.
- 28223 WELLINGTON, W. G. Measurements of the physical environment. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(5): 1-2. Sept./Oct. 1948. 423.92 C16F
- Forest insect studies.



- 28224 WIGGLESWORTH, V. B. Croonian Lecture. The insect as a medium for the study of physiology. Roy. Soc. London. Proc., Ser. B. Biol. Sci. 135: 430-446. Ref. Dec. 14, 1948. 501 L84B
- 28225 WIGGLESWORTH, V. B. The insect cuticle. Cambridge Phil. Soc. Biol. Rev. 23: 408-451. Ref. Oct. 1948. 442.9 C14
- 28226 WIGGLESWORTH, V. B. The insect cuticle as a living system. Faraday Soc. Discuss. 1948(3): 172-177. 382 F22D

## GENERAL - ECONOMIC

- 28227 ABRAMS, H. K. Public health aspects of agricultural chemicals. Calif. Health 6: 97-102. Jan. 15, 1949. 449.8 C12
- Insecticides.
- 28228 AINLEY, A. D., and SEXTON, W. A. Chemical constitution and insecticidal action. 2. Substituted  $\alpha$ -aminonitriles. Biochem. J. 43: 468-474. Ref. 1948. 382 B52
- 28229 ANDERSON, L. D. Large-scale insecticide tests. Plant Dis. Rptr. Sup. 180: 9. Jan. 30, 1949. 1.9 P69P
- 28230 ANDREWS, J. M. Control of diseases propagated by arthropod vectors. Ofic. Sanit. Panamer. B. 27: 998-1004. Nov. 1948. 449.9 P192B
- Spanish summary.
- 28231 ARNOTT, D. A. Effect of injurious insects on yields of alsike clover. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 89-90. 1948. 423.9 Am32
- 28232 ÅVALL, H. A new insecticide. (In Swedish.) Lantmannen 33: 60. Jan. 22, 1949. 11 L234
- Parathion.
- 28233 AVENS, A. W. New insecticides and processed foods. Farm Res. [N. Y. State Sta] 15: 6. Jan. 1949. 100 N48A
- 28234 AYARS, J. S. Bug control spells more legume seed! Successful Farming 46(10): 44, 46-47. Oct. 1948. 6 S12
- 28235 BARACCO GANDOLFO, A. Combate de plagas de la papa. Serv. Coop. Interamer. de Prod. de Alimentos. Ser. Inform. Téc. 34, 4 p. Mar. 1948. 9.8 Se6
- 28236 BARRITT, J., and HARTLEY, R. S. The protection of wool against attack by insect pests. Ann. Appl. Biol. 35: 467-470. Sept. 1948. 442.8 An72
- 28237 BARTHOLOMEW, E. T. When insecticides injure plants. West. Grower & Shipper 20(3): 14-15. Feb. 1949. 280.38 W52
- 28238 BEAR, E. M. Perhaps our pests prefer well-sprayed orchards. Grower 31: 62-63. Jan. 8, 1949. 286.83 M34
- 28239 BEEKENKAMP, G., and WIT, J. When can we use Parathion (E 605)? (In Dutch.) Groenten en Fruit 4: 410. Jan. 6, 1949. 80 G89
- 28240 BESS, H. A., and others. Uses and limitations of the airplane [in forest pest control]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 37-42. 1948. 423.9 Am32
- Surveys prior to treatment, by H. A. Bess. Hazards of DDT to beneficial organisms, by D. E. Parker. Spraying forest areas from the air, by C. B. Eaton. Control of the Saratoga spittlebug [Aphrophora saratogensis] and red-headed pine sawfly [Neodiprion lecontei], by H. A. Bess.
- 28241 BIGGER, J. H. Effects of legume insects on seed yields of alfalfa. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 86-87. 1948. 423.9 Am32
- 28242 BIJVOET, J. M. The crystal structure of gam-mexane. Rec. des Trav. Chim. des Pays-Bas 67: 777-781. Nov. 1948. 385 R24
- 28243 BORDEN, A. D. Low volume spraying saves half of materials cost. Better Fruit 43(7): 10, 25. Jan. 1949. 80 B46
- 28244 BOTTGER, G. T., YERINGTON, A. P., and GERTLER, S. I. Preliminary tests on N-substituted p-nitrobenzamides as insecticides. U. S. Bur. Ent. and Plant Quar. E-764, 10 p. Dec. 1948. 1.9 En83
- 28245 BOUVIER, R. La lutte biologique au service des végétaux. Fruits d'Outre Mer 3: 364-368. Nov. 1948. 80 F9492
- 28246 BRIOLINI, M. The problem of controlling insect pests. (In Italian.) Romagna Agr. e Zootec. 33(1): 2. Jan. 1948. 16 R66
- 28247 BUETTNER, W. O. The entomologist in the field of structural pest control. Pests 17(2): 12, 14, 36-37. Feb. 1949. 449.8 Ex8
- 28248 CALHOUN, S. L. New insecticides for cotton-insect control. Cotton Trade J. Internatl. Ed. (1948/49) 16: 151-153. 1948. 72.8 C82141
- 28249 CARDONNE, P. Les nouveaux produits insecticides. Tribune Agr. 41(748): 1. Dec. 1, 1948. 24 T732
- 28250 CARDONNE, P. Les nouveaux produits insecticides. Voix des Colons 30(1484): 3. Dec. 27, 1948. 24 V85
- 28251 CHAPMAN, R. K., and LUDVIK, G. F. Organic phosphates as insecticides. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 9-11. 1948. 423.9 Am32
- Toxicity to insects, by R. K. Chapman. Toxicity to plants, by G. F. Ludvik.
- Tests with hexaethyl tetraphosphate, tetraethyl pyrophosphate, and parathion.
- 28252 CHAPMAN, R. K., and others. Where can the newer materials be used safely on plants? (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 83-86. 1948. 423.9 Am32
- DDT, by R. K. Chapman. BHC, by C. J. Weinman. Chlordane, by G. G. Gould. Organic phosphates [parathion, etc.], by D. M. DeLong.
- 28253 CHULSKI, K. The effect of benzene-hexachloride on some crops grown on various soil types. Mich. Agr. Expt. Sta. Q. B. 31: 170-177. Nov. 1948. 100 M58S
- 28254 CONCHA VENEGAS, J. A. El uso del D. D. T. en solución acuosa. Rev. Nac. de Agr. [Bogotá] 41 (501/502): 41. Jan./Feb. 1947. 9.4 R32
- 28255 CORPORAAL, J. B. Use of museum entomology for practice. (In Dutch.) Ent. Ber. 12: 278-280. Sept. 1, 1948. 420 N38B
- 28256 CRISTOL, S. J., and HALLER, H. L. The isolation of 1,1-dichloro-2-o-chlorophenyl-2-p-chlorophenyl-ethane from technical TDE. Amer. Chem. Soc. J. 70: 1323-1324. Apr. 1948. 381 Am33J
- 28257 CUFF, R. L. Odors after spraying beef cattle with BHC. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 48-49. 1948. 423.9 Am32
- 28258 DE GUERIN, B. C. Spraying tomatoes and potatoes. Grower 31: 64. Jan. 8, 1949. 286.83 M34
- Equipment.
- 28259 DEXANT, A. Nouvel insecticide de synthèse: le T. T. C. Defense Agr. de la Beauce et du Perche 45: 327-328. Dec. 1, 1948. 14 D36
- Chlorocyclohexane trithiocarbonate.
- 28260 DICKE, R. J. Insect control in large buildings. Sources of filth contamination in food processing plants. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 59. 1948. 423.9 Am32
- 28261 DICKE, R. J. Pest control opportunities. Pests 17(2): 24. Feb. 1949. 449.8 Ex8
- Community mosquito control, dairy fly control, etc.
- 28262 DORWARD, K. Parathion toxicity to livestock, preliminary test. Fla. Ent. 31: 116-122. Dec. 1948. 420 F662
- 28263 DOW CHEMICAL COMPANY. New grain fumigant controls all common grain insects. Midland, Mich., 1948. 3 p. 423 D75N
- Dowfume EB-5, containing 5 percent ethylene dibromide.
- 28264 DRAKE, C. J. Influence of insects on alfalfa seed production in Iowa. J. Econ. Ent. 41: 742-750. Oct. 1948. 421 J822
- 28265 DREISEITL, H. Zur kommenden winter-spritzung. Salzburg. Bauer 3(52/53): 3. Dec. 23, 1948. 19 Sa3
- 28266 DUNHAM, W. E. Effects of pollinating insects on seed yields. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 93. 1948. 423.9 Am32
- Red clover.
- 28267 DUSTAN, G. G., and PUTMAN, W. L. Particle size of DDT wettable powders in relation to toxicity. Canad. Ent. 79: 216-221. Nov./Dec. 1947. 421 C16
- Tested on Empoasca fabae, Plutella maculipennis, Oncopeltus fasciatus, Rhopalosiphum rufomaculatum, and Carpocapsa pomonella.
- 28268 E.605—a new German agricultural insecticide. Mfg. Chem. 19: 548-549. Dec. 1948. 396.8 M31
- Summary of technical details about E.605 (i.e. parathion) as given by G. Schrader.



- 28269 EDNEY, E. B. Insects and disease. London, Oxford U. Press, 1947. 79 p. 423.2 Ed6
- 28270 EGYPT. MINISTRY OF AGRICULTURE. Plant quarantine. Cairo, Govt. Press, 1948. 5 p. 464.47 Eg9
- 28271 ENTE REGIONALE PER LA LOTTA ANTI ANOFELICA IN SARDEGNA. Il D.D.T. non è dannoso per il bestiame. Cagliari, 1948. 2 p. 428 En8D
- 28272 ESSIG, E. O. Insect surveys in relation to quarantine and control of insect pests. J. Econ. Ent. 41: 673-677. Oct. 1948. 421 J822
- 28273 EVERLY, R. T. Effect of injurious insects on yields of red clover. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 87-89. 1948. 423.9 Am32
- 28274 FAULKNER, F. S., and DEONIER, C. C. Equipment for dispersing insecticides from aircraft. U. S. Bur. Ent. and Plant Quar. ET-262, 6 p. Oct. 1948. 1.9 En83Et
- 28275 FIGUEIREDO JR., E. R. DE. Pests of gladiolus and means of control. (In Portuguese.) Biológico 14: 213-216. Sept. 1948. 442.8 B529
- Taeniothrips simplex, Pseudococcus maritimus, Myzus persicae, and Heliothis armigera.
- 28276 FRANKLIN, W. W., and PARKER, R. L. Pollination of legumes and seed production. Alfalfa pollination. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 65-68. 1948. 423.9 Am32
- Beneficial and injurious insects.
- 28277 FRANSEN, J. J. Diphenylamide and phenothiazine as insecticide. (In Dutch.) Netherlands. Dir. van de Tuinbouw. Meded. 11: 721-723. Nov. 1948. 81 N384
- 28278 FRIEND, A. H. E605—an interesting new insecticide. Agr. Gaz. N. S. Wales 59: 537. Oct. 1948. 23 N472
- 28279 FULTON, R. A., and others. Particle size and toxicity of aerosols affected by HEPT concentration. Agr. Chem. 4(1): 35-38, 67. Jan. 1949. 381 Ag8
- F. F. Smith, P. H. Lung, A. H. Yeomans, and E. E. Rogers, joint authors.
- Hexaethyl tetraphosphate.
- 28280 GAHAN, J. B., and others. Comparative toxicity of four chlorinated organic compounds to mosquitoes, house flies, and cockroaches. J. Econ. Ent. 41: 795-801. Oct. 1948. 421 J822
- L. H. Gilbert, R. L. Peffly, and H. G. Wilson, joint authors.
- Relative effectiveness of chlordane, benzene hexachloride, toxaphene, and DDT as space and residual sprays against Aedes aegypti, Anopheles quadrimaculatus, Musca domestica, Periplaneta americana and Blattella germanica.
- 28281 GAINES, J. C., and HANNA, R. L. Comparison of diluents in insecticide mixtures for cotton insect control. J. Econ. Ent. 41: 811-812. Oct. 1948. 421 J822
- 28282 GOLDBERG, M. Fluctuations characterize the pesticide market. Agr. Chem. 4(1): 45, 77. Jan. 1949. 381 Ag8
- 28283 GOULD, G. E. Control of stored grain insects in farm storage. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 25-26. 1948. 423.9 Am32
- 28284 GOULD, G. E. Insect control in food storage warehouses. (Abs.) Amer. Assoc. Econ. Ent. Cent. States Br. Proc. 3: 59-60. 1948. 423.9 Am32
- 28285 GOULD, G. E. Insect-problems in corn processing plants. J. Econ. Ent. 41: 774-778. Oct. 1948. 421 J822
- 28286 GRAHAM, S. A. Forests that are relatively safe from forest insects. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 43-44. 1948. 423.9 Am32
- 28287 GRAY, H. E. The newer insecticides and rodenticides in relation to improved pest control. Canad. J. Pub. Health 39: 458-463. Nov. 1948. 449.8 P964
- 28288 HAEUSSLER, G. J. Information activities of the Bureau of Entomology and Plant Quarantine. (Abs.) Ent. Soc. Wash. Proc. 50: 195-196. Oct. 1948. 420 W27
- 28289 HAMMARLUND, L. Bladan E 605 and other parathion preparations. (In Danish.) Gart.-Tid. 64: 598-599. Dec. 8, 1948. 80 G192
- 28290 HASEMAN, L. Control of household insects. Mo. Agr. Expt. Sta. C. 328, 20 p. May 1948. 100 M693
- 28291 HASEMAN, L. Controlling garden insects. Mo. Agr. Expt. Sta. C. 332, 4 p. Oct. 1948. 100 M693
- 28292 HASEMAN, L. Do soil minerals show insecticidal action? (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 96-97. 1948. 423.9 Am32
- 28293 HAYES SPRAY GUN COMPANY. The battle of the bugs; why, where, what, how and when to spray for maximum control of insects. Pasadena, Calif., 1947. 13 p. 423 H322
- 28294 HECHT, O. Los nuevos insecticidas orgánicos sintéticos y su aplicación en la higiene y la agricultura. II. Chapingo 26: 147-151. Oct. 1948. 102 C36
- DDT.
- 28295 HIGBEE, E. Las plantas productoras de rotenona en la América Latina. Hacienda 44(1): 44-45. Jan. 1949. 6 H11
- 28296 HITCHNER, L. S. Background on pesticide development. Com. Fert. 78: 25, 40. Jan. 1949. 57.8 C73
- 28297 HOCKENYOS, G. L. Insect control in institutions. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 60-61. 1948. 423.9 Am32
- 28298 HOFFMANN, C. H., and others. Field studies on the effects of airplane applications of DDT on forest invertebrates. Ecol. Monog. 19(1): 1-46. Jan. 1949. 410 Ec72
- Chiefly insects and arachnids.
- H. K. Townes, H. H. Swift, and R. I. Sailer.
- 28299 HOLLEY, W. D. How not to have insects on house plants. Flower Grower 36: 120-121, 164-165. Feb. 1949. 80 M72
- 28300 IRIARTE, D. R. Estudios entomológicos y parasitológicos. Caracas, Tipografía Americana, 1948. 253 p. 448 Ir4E
- 28301 JACKSON, G. P. Evolution of the PCO [pest control operator]. I. Pests 17(2): 30, 35. Feb. 1949. 449.8 Ex8
- 28302 JACOBS, J. J. Chlordane and dermatitis. Pests 17(1): 13-14. Jan. 1949. 449.8 Ex8
- 28303 JACOBSEN, E. G. Synthetic organic insecticides. So. African Indus. Chem. 2: 164-168. Ref. Sept. 1948. 385 So8
- 28304 JACOBSON, M. Herculin, a pungent insecticidal constituent of southern prickly ash bark. Amer. Chem. Soc. J. 70: 4234-4237. Dec. 1948. 381 Am33J
- 28305 JARY, S. G. Good control of insect pests. London, English Universities Press, 1948. 216 p. (EUP teach yourself farming books) 423 J29
- 28306 JOHNSTON, W. 13 ways to keep vermin away from stored food. Wine & Spirit 17(12): 18. Dec. 1948. 390.8 W725
- 28307 JONES, D. P. Insect and other pests of sugar beet. Farming [Norwich] 2: 359-363. Dec. 1948. 10 F2236
- 28308 KELSHEIMER, E. G. Daños que causan los insectos en el césped. Control de Plagas 10: 160-161. Dec. 1948. 464.8 C76
- 28309 KERN, F. X. What about the "super bug-killers?" Natl. Co. Agent 5(1): 30-32. Jan. 1949. 275.28 N213
- 28310 KJELLANDER, E. Modern insecticides. (In Swedish.) Lantmannen 33: 90-91. Feb. 5, 1949. 11 L234
- 28311 KNOWLTON, G. F., and NYE, W. P. Insect food of the vesper sparrow. J. Econ. Ent. 41: 821. Oct. 1948. 421 J822
- 28312 KOTTE, W. Krankheiten und schädlinge im obstbau und ihre bekämpfung. Ed. 2, rev. Berlin, Parey, 1948. 329 p. 464.06 K84
- 28313 KRAL, H. An alle obstbaumbesitzer! Salzburg. Bauer 3(52/53): 4. Dec. 23, 1948. 19 Sa3
- Pest control.
- 28314 KRUEL, W. Proben nach im boden überwinternden kieferninsekten. Forstw., Holzw. 1: 268-269. Dec. 1/15, 1947. 99.8 F7793
- 28315 KUGLER, C. Aus der praxis der schädlingbekämpfung. Landw. Wchnbl. 138: 413. Dec. 4, 1948. 18 L2338
- 28316 LAPEYRONIE, A. Généralités sur les insectes xylophages et la protection des bois. Bois et Forêts des Trop. 7: 273-291. Ref. Third Quart. 1948. 99.8 B632
- 28317 LEHMAN, A. J. The toxicology of the newer agricultural chemicals. Pests 17(1): 7-9, 11. Jan. 1949. 449.8 Ex8
- 28318 LEPAGE, H. S., GIANNOTTI, O., and ORLANDO, A. Some observations on "Rhodiatox" (diethyl p-nitrophenyl thiophosphate). (In Portuguese.) Biológico 14: 175-181. Ref. Aug. 1948. 442.8 B529
- Same as parathion.



- 28319 LOMAX, J. W. Household pest control chart. Nebr. Agr. Col. Ext. E.C.1553, 1 p. Dec. 1948. 275.29 N272Ex
- 28320 LORD, K. A. The contact toxicity of a number of D. D. T. analogues and of four isomers of benzene hexachloride to *Macrosiphoniella sanborni* and *Oryzaephilus surinamensis*. Ann. Appl. Biol. 35: 505-526. Ref. Dec. 1948. 442.8 An72
- 28321 LORD, K. A. Decomposition of DDT (1:1:1-trichloro-2:2-di-(4-chlorophenyl)-ethane) by basic substances. Chem. Soc. J. 1948: 1657-1661. Oct. 1948. 382 L84J
- 28322 LYNN, G., and DECKER, G. C. Important consideration in insecticide testing. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 15-19. 1948. 423.9 Am32
- In the laboratory, by G. Lynn. In the field, by G. C. Decker.
- 28323 MCALISTER, L. C., JR. Bug-ridden warehouse cleaned up when new insecticide was sprayed. Food Indus. 21: 58-59. Jan. 1949. 389.8 F737
- Pyrenone.
- 28324 MAC GILLAVRY, D. Insects on the American oak. III. (In Dutch.) Ent. Ber. 12: 289-291. Nov. 1, 1948. 420 N38B
- 28325 MACNAY, C. G. A summary of the more important insect infestations and occurrences in Canada in 1947. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 71-89. 1948. 420 On8
- 28326 MAIER, J., RENDTORFF, R. C., and SUÁREZ, M. The duration of residual effect of DDT sprays on building materials used in rural Venezuela. Amer. J. Trop. Med. 28: 889-894. Nov. 1948. 448.8 Am33
- 28327 MALDINI, A. New sure means of control of pests of warehouses, stores, houses, and barns. (In Italian.) Agr. Modenese 4(15): 4. Oct. 31, 1948. 16 Ag8255
- Frutasan-Rumianca.
- 28328 MARSH, R. W. Spraying trials. Bristol U. Agr. and Hort. Res. Sta. Ann. Rpt. 1947: 164-167. 84 B77
- Fruit.
- 28329 MARSHALL, G. E. The before harvest story of peach pest control in 1948. Hoosier Hort. 30: 147-150. Oct./Nov. 1948. 81 In2H
- 28330 MASSEE, A. M. A spray programme for 1949 in the light of present knowledge. Kent Farmers' J. 64: 90-91. Dec. 1948. 10 K41
- 28331 MASSEE, A. M. Spraying in the fruit garden. Roy. Hort. Soc. J. 74: 7-12. Jan. 1949. 84 L84J
- 28332 MEDLER, J. T. Insecticides for control of legume insects. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 93-94. 1948. 423.9 Am32
- 28333 MICHELbacher, A. E., and ESSIG, E. O. Ridding the garden of common pests. Calif. Agr. Col. Ext. C. 146, 39 p. Oct. 1948. 275.29 C12C
- 28334 MILLER, M. W. 'Benny Hex' now has O. K. Washcoegg 26(8): 7. Jan. 1949. 47.8 W27
- Benzene hexachloride for poultry pests.
- 28335 MILUM, V. G. White and yellow sweet clover pollination. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 68-69. 1948. 423.9 Am32
- Role of insects.
- 28336 MORLAN, H. B. Ectoparasites of domestic rats and mice and the diseases they transmit. Pests 16(12): 16, 18, 20. Dec. 1948. 449.8 Ex8
- Fleas, lice, mites, and ticks.
- 28337 NELSON, R. H., and others. Low pressure aerosols—their efficiency in relation to formulation and particle size. Soap & Sanit. Chem. 25(1): 120-121, 123, 125, 166. Jan. 1949. 307.8 So1
- R. A. Fulton, J. H. Fales, and A. H. Yeomans, joint authors.
- 28338 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect pests. Agr. Gaz. N. S. Wales 59: 475-479, 492. Sept. 1948. 23 N472
- Citrus aphids (*Toxoptera aurantii* and *Aphis* sp.). Cutworms (*Noctuidae*). The *Heliopsis* caterpillar (*Heliopsis armigera*), by W. L. Morgan.
- 28339 NIELSEN, H. Spraying with fruit tree carbolineum — or not? (In Danish.) Haven 49: 21-22. Feb. 1949. 80 H29
- 28340 PARR, H. C. M., and BUSVINE, J. R. A spinning-disk sprayer for applying residual insecticides. Ann. Appl. Biol. 35: 359-368. Sept. 1948. 442.8 An72
- 28341 PEPPER, B. B. Vegetable insects and their control on commercial plantings. N. J. Agr. Expt. Sta. B. 740, 15 p. Apr. 1948. 100 N46S
- 28342 PHILIP, C. B. Observations on experimental Q fever. J. Parasitol. 34: 457-464. Dec. 1948. 448.8 J824
- Transmission by *Aedes aegypti*, *Dermacentor andersoni*, *Triatoma infestans* and *Musca domestica* studied.
- 28343 PLACKETT, R. L., and HEWLETT, P. S. Statistical aspects of the independent joint action of poisons, particularly insecticides. I. The toxicity of a mixture of poisons. Ann. Appl. Biol. 35: 347-358. Ref. Sept. 1948. 442.8 An72
- 28344 PORTMAN, R. W. Beef gains using BHC. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 49-50. 1948. 423.9 Am32
- 28345 POST, R. L., and others. Potato insects and their control. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 73-78. 1948. 423.9 Am32
- Results of spraying and dusting potatoes in North Dakota, by R. L. Post and W. J. Colberg. Potato aphid [*Macrosiphum solanifolii*, *Myzus persicae*] control, by C. M. Voss. Compatibility of DDT with fungicides, by W. F. Morofsky. Insect resistance in potatoes, by J. P. Sleesman.
- 28346 PURKERT, A. Kampf den obstbaumschädlingen! Gartenfreund [Heidelberg] 80: 4. Jan. 1948. 80 G1934
- 28347 RAMACHANDRAN, S. The food crisis and its solution. Madras Agr. J. 35: 268-270. Oct. 1948. 22 M262
- Insect control in the field and in stored products.
- 28348 RAZÍM, W. W. Tetraethyl pyrophosphate. (In Portuguese.) Fazenda 44(1): 41. Jan. 1949. 6 H11P
- 28349 REEKS, W. A. The forest insect situation on Prince Edward Island. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(5): 1. Sept./Oct. 1948. 423.92 C16F
- 28350 REISINGER, E. "DDT" und "666" im pflanzenschutz. Kärntner Bauer 98: 393-395. Dec. 1, 1948. 19 K14
- 28351 RICCI, A. Alfalfa pests. (In Italian.) Romagna Agr. e Zootec. 33(4): 1, 3. Apr. 1948. 16 R66
- 28352 RINGUELET, R. Zooparasitos de interes veterinario. Su distribución en la Argentina segun comprobaciones de la Dirección de Patología Animal, 1935-1945. Argentina. Dir. de Inform. P. Misc. 281, 54 p. 1948. 9 P943
- Includes mites, ticks, and insects attacking livestock.
- 28353 ROARK, R. C. New organic insecticides. Sci. Monthly 68: 59-61. Jan. 1949. 470 Sci23
- 28354 ROBBINS, C. S., and STEWART, R. E. Effects of DDT on bird population of scrub forest. J. Wildlife Mangt. 13(1): 11-16. Jan. 1949. 410 J827
- 28355 SATTERTHWAIT, A. F. Important sunflower insects and their insect enemies. J. Econ. Ent. 41: 725-731. Oct. 1948. 421 J822
- Rhodoabaenus tredecimpunctatus*, *Suleima helianthana*, *Stibadium spumosum*, and *Lasioptera murtfeldtiana*.
- 28356 SCHINKOWITSCH, A. Milben und andere quälgeister im hühnerstall. Landwirtschaft 1948: 299. Oct. 23, 1948. 19 L235
- 28357 SCHNELLER, G. H., and SMITH, G. B. L. Unsymmetrical analogs of DDT. Amer. Chem. Soc. J. 70: 4057-4059. Dec. 1948. 381 Am33J
- 28358 SCHÖBER, K. Pflanzenschutzarbeiten im feldbau Niederösterreichs im jahre 1948. Landwirtschaft 1948: 273-277. Oct. 23, 1948. 19 L235
- 28359 SHEWELL-COOPER, W. E. Tar-oil isn't the only winter wash. Smallholder 80(2019): 13. Dec. 10, 1948. 10 Sm1
- Winter fruit sprays.
- 28360 SIMMONDS, F. J. Some difficulties in determining by means of field samples the true value of parasitic control. B. Ent. Res. 39: 435-440. Dec. 1948. 421 B87
- 28361 SMIT, B. The balance of nature in relation to insects. Farming So. Africa 23: 553-559. Aug. 1948. 24 So842
- Interrelations of plants, insect pests, and insect parasites in South Africa. Examples of biological control.
- 28362 SMITH, L. M. Control measures are given for thrips, aphids, and red spiders on prunes. Sunsweet Standard 32(8): 8-10. Jan. 1949. 286.83 Su7



- 28363 SMITH, M. S. Persistence of D.D.T. and benzene hexachloride in soils. *Ann. Appl. Biol.* 35: 494-504. Ref. Dec. 1948. 442.8 An72
- 28364 SMITH, R. F., FULLMER, O. H., and MESSENGER, P. S. DDT residues on alfalfa hay and seed chaff. *J. Econ. Ent.* 41: 755-758. Oct. 1948. 421 J822
- 28365 SMITH, R. F., HOSKINS, W. M., and FULLMER, O. H. Secretion of DDT in milk of dairy cows fed low-residue alfalfa hay. *J. Econ. Ent.* 41: 759-763. Ref. Oct. 1948. 421 J822
- 28366 SOUTHERN RHODESIA. DEPT. OF AGRICULTURE AND LANDS. DIVISION OF ENTOMOLOGY. Report---for the year ending 31st December, 1947, by M. C. Mossop. South. Rhodesia. Dept. Agr. & Lands B. 1445, 20 p. 1948. 24 R345
- 28367 SPAIN. INSTITUTO ESPAÑOL DE MEDICINA COLONIAL. Recientes adquisiciones y técnicas de empleo del D.D.T., por el Dr. Gonzalo Piédrola Gil. Madrid, Cosano, 1948. 307 p. 423 Sp13
- 28368 STAGE, H. H., and BISHOPP, F. C. Equipment for applying insecticides. *Internatl. Cong. Trop. Med. and Malaria*. Abs. 4: 142-143. 1948. 150.1 C766
- 28369 STEER, W. The use of DDT in horticulture. *Manchester, Eng. Geigy.*, 1947. 39 p. 423 St35
- 28370 STEINER, L. F. Parathion for fruit insects. (Abs.) *Amer. Assoc. Econ. Ent. North Cent. States Br. Proc.* 3: 103-106. 1948. 423.9 Am32
- 28371 TOOKE, F. G. C. Economic entomology - its present and future needs in South Africa. *Ent. Soc. South Africa J.* 11: 3-12. Sept. 30, 1948. 420 En86
- 28372 TRIVELLI, G. Un nouveau groupe d'insecticides: les esters phosphoriques. *Rev. Romande d'Agr., de Vitic. et d'Arboriculture* 4: 90-91. Dec. 1948. 17 J82A
- Hexaethyl tetraphosphate, tetraethyl pyrophosphate, and parathion.
- 28373 TURNER, N., and WOODRUFF, N. Toxicity of DDT residues: effect of time of exposure of insects, coverage and tenacity. *Conn. (State) Agr. Expt. Sta. B.* 524, 35 p. Ref. Oct. 1948. 100 C76St
- 28374 UGANDA. DEPT. OF AGRICULTURE. A review of agricultural entomology in Uganda, 1935-42. Entebbe, 1948. 2 p. 423 Ug1
- 28375 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Report, 1947/48. Washington, 1948. 55 p. 1 En85
- 28376 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. DIV. OF INSECT PEST SURVEY AND INFORMATION. Bureau of Entomology and Plant Quarantine articles published in 1947. U. S. Bur. Ent. and Plant Quar. E-767, 36 p. Dec. 1948. 1.9 En83
- 28377 USHATINSKAIA, R. S. Osnovnye meropriyatiya po zashchite plodovykh sadov ot sel'skokhozyaistvennykh vreditel' i boleznei [Basic measures for the protection of orchards from agricultural pests and diseases]. Moskva, Pishchepromizdat, 1948. 150 p. 423 Us3
- 28378 VAYSSIÈRE, P. Colloque sur "la nécessité d'une organisation internationale de la lutte biologique." *Fruits d'Outre Mer* 3: 425-426. Dec. 1948. 80 F9492
- 28379 VILARDEBO, A. Trois insecticides modernes. *Fruits d'Outre Mer* 3: 339-340. Oct. 1948. 80 F9492
- Benzene hexachloride, polychlorocyclane sulfide and DDT.
- 28380 WASICKY, R., UNTI, O., and RAMOS, A. DA S. Contrôles do DDT empregado na profilaxia das moléstias transmitidas por insetos [Regulation of DDT used in the prevention of diseases transmitted by insects]. São Paulo, "Revista dos Tribunais," 1947. 71-96 p. 423 W28
- English summary.
- 28381 WEINMAN, C. J., and KNIPLING, E. F. Relative performances of DDT, gamma BHC, and chlordane. (Abs.) *Amer. Assoc. Econ. Ent. North Cent. States Br. Proc.* 3: 7-9. 1948. 423.9 Am32
- Plant pests, by C. J. Weinman. Animal pests, by E. F. Knipling.
- 28382 WELCH, H. DDT has revolutionized all old ideas of insect control. *Mont. Farmer-Stockman* 36(9): 18, 23. Jan. 1, 1949. 6 M764
- Livestock pests.
- 28383 WENE, G. P. A helicopter for vegetable insect control. *J. Econ. Ent.* 41: 831-832. Oct. 1948. 421 J822
- Tests with benzene hexachloride against *Rhopalosiphum pseudobrassicæ*, hexaethyl tetraphosphate against *Brevicoryne brassicæ*, and DDT against *Trichoplusia ni*, on broccoli.
- 28384 WILSON, S. G. The feeding of "gammexane" and DDT to bovines. *B. Ent. Res.* 39: 423-434. Dec. 1948. 421 B87
- 28385 WRIGHT, J. M. Stored grain insect control in seed grains. (Abs.) *Amer. Assoc. Econ. Ent. North Cent. States Br. Proc.* 3: 26-27. 1948. 423.9 Am32
- 28386 YEAGER, J. F., and MUNSON, S. C. A ratio hypothesis pertaining to the biological action of poisons and drugs. *Ent. Soc. Amer. Ann.* 41: 377-383. Sept. 1948. 420 En82

## APICULTURE AND APIS MELLIFERA

- 28387 ALBURQUERQUE. Alimentación de las abejas. *Nuestros Amigos* 5(54): 19. (Cont.) Nov. 1948. 48.8 N88
- 28388 ALPATOV, V. V. Porody medonosnoy pchely i ikh ispol'zovanie v sel'skom khozyaistve [Races of Apis mellifera and their utilization in agriculture]. Rev. ed. Moskva, Moskovskoe Obshchestvo Ispytatelei Prirody, 1948. 183 p. (Moscow. Obshchestvo Ispytatelei Prirody. Sredi Prirody 4) 424 AL72
- 28389 ANDERSSON, N. Use of electricity. (In Swedish.) *Bitidningen* 48: 5-7. Jan. 1949. 424.8 B54
- In the beehive.
- 28390 BARTHÉLÉMY. La ruche à feuillets. *Gaz. Apic.* 503: 257-258. Oct. 1948. 424.8 G25
- 28391 BARTHÉLÉMY. La ruche idéale. *Gaz. Apic.* 502: 232-233. Sept. 1948. 424.8 G25
- 28392 BELDAME, R. Ruches simples et doubles. D. V. G. et Langstroth. *Gaz. Apic.* 502: 234-235. (Concl.) Sept. 1948. 424.8 G25
- 28393 BELT, J. V. D. Constancy in honeybees in nectar collecting. (In Dutch.) *Boer en Tuinder* 2(88): 3. Sept. 11, 1948. 12 B632
- 28394 BERNETT, A. W. Which road shall we take? *Beekeepers' Mag.* 12(1): 9-10. Jan. 1949. 424.8 M58
- On apiculture as an occupation.
- 28395 BOHNE, G. W. Are bees smarter than men? *Beekeepers' Mag.* 11(12): 11-12. Dec. 1948. 424.8 M58
- Sanitation of equipment after bee diseases.
- 28396 BOSC, R. Etat des ruchers et sauvetage des ruches en 1948. *Apiculteur* 92: 248-250. Oct. 1948. 424.8 Ap3
- France.
- 28397 BÖTTCHER, F. K. Bienenvergiftungen durch pflanzenschutzmittel! *Imkerfreund* 3: 106. Nov. 1948. 424.8 Im43
- 28398 BÖTTCHER, F. K. Künstliche reinigungsflüge. Erfahrungen mit dem treiben der bienenvölker zu vorzeitiger brutaufzucht im frühjahr. III. Mitteilung: treibversuche unter zuhilfenahme des künstlichen reinigungsfluges. *Imkerfreund* 3: 109-111. Nov. 1948. 424.8 Im43
- 28399 BRANZANTI, E. C. Importance of bees in fruit culture. (In Italian.) *Romagna Agr. e Zootec.* 33(3): 3. Mar. 1948. 16 R66
- 28400 BRITISH STANDARDS INSTITUTION. BEE-KEEPING STANDARDS COMMITTEE. Statement by the Beekeeping Standards Committee. *Scot. Beekeeper* 24: 187-188. Nov. 1948. 424.8 Sco8
- Beehives.
- Also in *Welsh Bee J.* 3: 131-132. Nov. 1948. 424.8 W462
- 28401 BRUCE, C. L. The skyscraper hive. *Scot. Beekeeper* 24: 187. Nov. 1948. 424.8 Sco8
- 28402 BÜDEL, A. Moisture in the beehive. (In Swedish.) *Bitidningen* 47: 361-363. Dec. 1948. 424.8 B54
- 28403 BÜDEL, A. Oberes oder unteres flugloch? *Imkerfreund* 3: 107-108. Nov. 1948. 424.8 Im43
- 28404 BÜDEL, A. Die temperatur in der beute. *Imkerfreund* 3: 89-91. Oct. 1948. 424.8 Im43
- 28405 BUTLER, C. G. Bee behaviour. *Nature [London]* 163: 120-122. Jan. 22, 1949. 472 N21
- 28406 CALE, G. H., JR. The history of a breeding project, early years. *Amer. Bee J.* 89: 68-69, 89. Feb. 1949. 424.8 Am3
- 28407 CARR, MRS. H. B. The best method of packing bees for transport. *Australasian Beekeeper* 50: 145-146. Dec. 15, 1948. 424.8 Au72
- 28408 CARTER, J. Not enough bees. *Land* 7: 356-360. Autumn 1948. 279.8 L22
- Pollination.



- 28409 CLAY, H. J. How a marketing agreement might aid the package bee industry. *South. Beekeeper* 2 (11): 7, 14. Nov. 1948. 424.8 So83
- 28410 CLESSE, H. Espace à laisser entre le montant du cadre & la paroi de la ruche. *Belg. Apic.* 12: 209. Nov. 1948. 424.8 B41
- 28411 CONGE, L. Quelques précisions sur la ruche double Devauchelle accompagnées de réflexions sur la surface de chauffe. *Gaz. Apic.* 503: 278. Oct. 1948. 424.8 G25
- 28412 DÄCHSEL, O. Hoch und breit, längs und quer. *Imkerfreund* 3: 92-93. Oct. 1948. 424.8 Im43  
Honeycombs.
- 28413 DAVITT, B. V. Sugar feeding in 1948. *Bee Craft* 30: 106. Dec. 1948. 424.8 B3925
- 28414 DESCARREAU, L. D. Réflexions devant un pot de miel. *Paysana* 22(10/11): 5, 14. Dec. 1948/Jan. 1949. 7 P29  
Apis mellifera.
- 28415 DIEMER, G. A practical approach to electric hive heating. *South. Beekeeper* 2(11): 4. Nov. 1948. 424.8 So83
- 28416 EAVES, D. In the future - honey. *Beekeepers' Mag.* 11(12): 9-11. Dec. 1948. 424.8 M58  
Honey marketing, and placing of bees for pollination.
- 28417 ECKERT, J. E. Davis expert advises use of bee colonies at blossom time. *Almond Facts* 13(1): 9. Jan./Feb. 1949. 280.28 AL62
- 28418 EDGERLEY, M. Acarine disease. *Good Bee-Keeping* 3: 150-151. Nov. 1948. *Ent. Sub-Br. Libr.*
- 28419 EVENIUS. Schädlingsbekämpfung ohne gefahr für die bienenzucht? *Imkerfreund* 3: 105-106. Nov. 1948. 424.8 Im43
- 28420 FEMENIAS MASSANET, J. El nosema apis en los colmenares de Mallorca. *Balearic Isl. Diputación Prov. B. de Agr.* 1948(49): 11-12. Oct. 1948. 15 B19
- 28421 FERIER, R. Suspension des cadres, séparateurs. *Belg. Apic.* 12: 210-211. Nov. 1948. 424.8 B41
- 28422 FITZPATRICK, D. Nosema apis. *Irish Beekeeper* 3: 14-16, 20. (To be cont.) Jan. 1949. 424.8 Ir42
- 28423 FORSTER, I. W. Foul-brood of bees and its control. *Tasmanian Farmer* 1948: 9. Nov. 1948. 23 T186  
Control of American foul-brood.  
Also in *New Zeal. J. Agr.* 77: 389, 391-392. Oct. 1948. 23 N48J
- 28424 FRISCH, K. VON. Duftgelenkte bienen im dienste der landwirtschaft und imkerei. *Wien, Springer*, 1947. 189 p. 424 F91
- 28425 FROW, R. W. Acarine disease. *Scot. Beekeeper* 25: 5-6. Jan. 1949. 424.8 Sco8
- 28426 FYG, W. Über die krankhafte drohnenbrütigkeit der bienenkönigin und ihre ursache. *Schweiz. Bienen Ztg.* 71: 520-529. Dec. 1948. 424.8 Sch9
- 28427 GALE, A. W. Burning bees. *Bee Craft* 31: 3-4. Jan. 1949. 424.8 B3925  
For elimination of American foulbrood.
- 28428 GARDNER, L. C. Can we afford to live with foulbrood? Continued dependence on the sulfa drug treatment means endless expense and perpetuation of American foulbrood. *South. Beekeeper* 2(11): 6. Nov. 1948. 424.8 So83
- 28429 GAYRE, G. R. How to make mead. *Beekeeping* 15: 8-9. Jan. 1949. 424.8 B3991
- 28430 GERSTNER, E. Double-hive arrangement. *Gleanings Bee Cult.* 77: 80-83, 115. Feb. 1949. 424.8 G47  
Also in *West. Canada Beekeeper* 12(2): 3-4, 6, 9. Feb. 1949. 424.8 W525
- 28431 GORING, A. Honey-farming—there's a world of difference between this and bee-keeping. *Smallholder* 80(2022): 14-15. Dec. 31, 1948. 10 Sml
- 28432 HAMMER, O. On Bladan's toxicity to bees. (In Danish.) *Gart.-Tid.* 64: 583-584. Dec. 1, 1948. 80 G192
- 28433 HAUMANN, A. Biene und bienenkorb in der volks-poesi. *Imkerfreund* 3: 96. Oct. 1948. 424.8 Im43
- 28434 HEROLD, E. Thiodiphenylamin zur schädlingbekämpfung. *Imkerfreund* 3: 124. Dec. 1948. 424.8 Im43  
Toxicity to bees.
- 28435 HITCHIN, H. E. Bee breeding in Britain. *Good Bee-Keeping* 3: 153-154. (Cont.) Nov. 1948. *Ent. Sub-Br. Libr.*
- 28436 HODGES, D. Preliminary report on colours of pollen loads (*Apis mellifera*). *Bee World* 30: 13-14. Ref. Feb. 1949. 424.8 B399
- 28437 HOUSTON, F. S. Kelty failed to observe basic rules in sulfa experiment. *South. Beekeeper* 2(11): 10, 12. Nov. 1948. 424.8 So83  
Reply to article by R. H. Kelty on sulfathiazole for American foulbrood.
- 28438 HUBBARD, D. Bees, the orchardists best and most interesting friend. *Va. Fruit* 37: 61-65. Jan. 1949. 81 V81B
- 28439 HUNKELER, M. Die rassenzucht im jahre 1948. *Schweiz. Bienen-Ztg.* 72: 4-7. Jan. 1949. 424.8 Sch9
- 28440 HURPIN, J. L'apiculture pratique. Ed. 5. Paris, La Maison Rustique, 1948. 194 p. 424 H94A
- 28441 JOINER, M. Simplifying manipulations. *Beekeepers' Mag.* 12(1): 10-11. Jan. 1949. 424.8 M58  
In pollination procedure.
- 28442 KALMAN, C. Beekeeping in Palestine. *Australas. Beekeeper* 50: 95-96, 101-102. Oct. 15, 1948. 424.8 Au72
- 28443 KATZNELSON, H. Sulfathiazole in the treatment of AFB. *Gleanings Bee Cult.* 77: 13-16, 88-89, 113. Jan., Feb. 1949. 424.8 G47
- 28444 KELLEY, W. T. Progress. *Mod. Beekeeping* 33: 4-7, 23. Jan. 15, 1949. 424.8 B397  
Includes farm tractors and the beekeeping industry.
- 28445 KELLEY, W. T. What is wrong with bee meetings? *Mod. Beekeeping* 33: 8-10, 22-23. Jan. 15, 1949. 424.8 B397
- 28446 KIRKOR, S. L'état sanitaire des abeilles en Pologne en 1947. *Off. Internatl. des Epizoot.* B. 30: 229-232. May 1948. 41.8 Of2
- 28447 KOBEL, F. Eine wertvolle untersuchung über die ortsstetigkeit der honigbiene. *Schweiz. Z. f. Obst- u. Weinbau* 57: 453-456. Dec. 18, 1948. 80 Sch9
- 28448 KREMER, J. C. Traps for collecting and distributing pollen in orchards. *Beekeepers' Mag.* 11(11): 9-16. Nov. 1948. 424.8 M58
- 28449 LAPI, E. The language of the bees. (In Italian.) *Terra [Firenze]* 59(45): 3. Nov. 7, 1948. 16 T274
- 28450 LAWSON, J. A. Honeycraft in theory and practice. Ed. 3. London, Chapman & Hall, 1948. 164 p. 424 L44
- 28451 LIANDIER, F. La récolte du miel dans le Massif Central en 1948. *Apiculteur* 92: 297-298. Nov. 1948. 424.8 Ap3
- 28452 LINN, E. Bee venom as medicine. *Frontiers* 13: 76-78. Feb. 1949. 410 F92
- 28453 LOUZADA JUNIOR, D. F. Apiculture in São Paulo. (In Portuguese.) *Soc. Rur. Bras. Rev.* 28(337): 70-72, 74. Oct. 1948. 9.2 B733
- 28454 LUNDER, R., and LIAN, A. Standardization of hive materials. (In Norwegian.) *Birøkteren* 64: 184-186. Dec. 1948. *Ent. Sub-Br. Libr.*
- 28455 MAINELLI, M. The apiculture season closes. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 184-185. Oct. 15, 1948. 16 C72
- 28456 MANLEY, R. O. Burning up foul stocks. *Bee Craft* 30: 104. Dec. 1948. 424.8 B3925  
For elimination of American foulbrood.
- 28457 MARKUS, R. Pollination of fruit. (In Portuguese.) *Lav. Arroz.* 2(22): 21-22. Oct. 1948. 59.8 L39  
Principally almonds and apples.
- 28458 MATHIS, M. Quelques considérations sur le blocage de la "ponte." *Gaz. Apic.* 502: 230-231. Sept. 1948. 424.8 G25
- 28459 MATHIS, M. Sur quelques modifications de la ruche en "livre" de François Huber pour le transport des abeilles à longue distance. *Gaz. Apic.* 503: 271-272. Oct. 1948. 424.8 G25
- 28460 MEDICI, M. La polilla de las colmenas. *Rev. Mens. B. A. P.* 31(369): 71-72. Aug. 1948. 9 R326  
*Galleria melonella* and *Achroia grisella*.
- 28461 MEDICI, M. Razas de abejas que más conviene explotar en el país. *Rev. Mens. Ilus. B. A. P.* 32(374): 24, 48. Jan. 1949. 9 R326
- 28462 MELO, P. G. Consejos a los jovenes apicultores. *Rev. de Agr. de Puerto Rico* 39(1): 102-107. Jan./June 1948. 8 R325



- 28463 MENGES, G. 500 mill. [mark] die zu denken geben. *Kleintier-Zücht. Tierbörse* 2(35/36): 11. May 10/25, 1948. 49 K672  
Losses due to poisoning of bees by insecticides.
- 28464 MENGES, G. Die wirkung von nexit und viton auf die bienen. *Kleintier-Zücht. Tierbörse* 3(48): 11-12. Nov. 25, 1948. 49 K672
- 28465 MILNE, P. S., and MORISON, G. D. Treatment of acarine disease with sulphur fumes. *Scot. Beekeeper* 24: 205-206. Dec. 1948. 424.8 Sco8
- 28466 MOREAUX, and MARCHAL. Note relative à la transformation des nectars en miel. *Apiculteur* 92: 256-259. Oct. 1948. 424.8 Ap3
- 28467 MOREAUX. Traitement de l'acariose par la fleur de soufre. *Belg. Apic.* 12: 208. Nov. 1948. 424.8 B41
- 28468 MOREJON PUIG, L. F. La miel de abeja. La Habana, 1947. 19 p. 424 M81
- 28469 MORISON, D. L. American foul brood; the problem in New South Wales. *Agr. Gaz. N. S. Wales* 59: 552-554. Oct. 1948. 23 N472
- 28470 MÜLLER, E. Die trogbeute. *Imkerfreund* 3: 94. Oct. 1948. 424.8 Im43
- 28471 MULLICK, N. P. Fear of bee-stings. *Indian Bee J.* 10: 106, 108. Nov./Dec. 1948. 424.8 In2
- 28472 MUTTOO, R. N. The name "honey." *Indian Bee J.* 10: 98-99. Nov./Dec. 1948. 424.8 In2
- 28473 NAJJAR, H. A. Modern beekeeping. (In Arabic.) *Syria. Ext. Serv. C.* 23, 42 p. Apr. 1948. 22.5 Sy8
- 28474 NEGRETE LABERNIE, C. Temas apícolas: enfermedades de las abejas. *Ganadería [Madrid]* 6: 546. Oct. 1948. 49 G15  
Acarine disease and Nosema apis.
- 28475 NEKRASOV, V. I. U. Pchely [Honeybees]. Moskva, Goskul'tprosvetizdat, 1948. 69 p. 424 N27
- 28476 NEVADA. STATE APIARY COMMISSION. Biennial report, 1946/48. Carson City, 1948. 7 p. 424.9 N41
- 28477 NEW ZEALAND DEPT OF AGRICULTURE. Beekeeping. New Zeal. Dept. Agr. B. 247, 11 p. Wellington, 1948? 23 N48Bu
- 28478 NIKOLAIDOU, N. I. Melissokomia [Apiculture]. Athēnai, 1947. 356 p. 424 N58
- 28479 OSTERHOLZER, F. Die künstliche besamung der bienenkönigin. *Imkerfreund* 3: 112-115. Nov. 1948. 424.8 Im43
- 28480 PADDOCK, F. B., PARKER, R. L., and MILUM, V. G. Beekeeping, training and instruction. (Abs.) *Amer. Assoc. Econ. Ent. North Cent. States Br. Proc.* 3: 71-73. 1948. 423.9 Am32
- 28481 PADILLA, F. Sobre la producción de miel. *Ganadería [Madrid]* 6: 427-428. Aug. 1948. 49 G15
- 28482 PATERSON, C. R. Home-made hive equipment. New Zeal. Dept. Agr. B. 247: 9-11. 1948? 23 N48Bu
- 28483 PAVORD, A. V. Basic beekeeping. *Beekeeping equipment. Good Bee-Keeping* 3: 151-152. Nov. 1948. Ent. Sub-Br. Libr.
- 28484 PESCHETZ, H. Der weg zur besten honigbiene. Wolfsberg, Österreich, Ploetz & Theiss, 1947. 326 p. 424 P43
- 28485 PICKETT, J. Swiping the bees pollen. *Calif. Farmer, South. Ed.* 190: 10. Jan. 1, 1949. 6 C126A  
Pollen trap.
- 28486 PRYCE-JONES, J. The honeybee and pollination. *Welsh Bee J.* 3: 121-125. (To be cont.) Nov. 1948. 424.8 W462
- 28487 RAFALES FERRER, S. Utilidad y ventajas de la apicultura. *Cult. Mod.* 31: 374. Oct. 1948. 15 C89
- 28488 RAJAGOPALACHARI, C. The story of our bees. II. *Indian Bee J.* 10: 89-92. Nov./Dec. 1948. 424.8 In2
- 28489 REHMAN, G. Section comb honey production. *Gleanings Bee Cult.* 77: 79. (To be cont.) Feb. 1949. 424.8 G47
- 28490 REICHERT, G. Les abeilles et les arbres fruitiers. *Bouches du Rhone Agr.* 22(994): 12. Jan. 15, 1949. 14 B662
- 28491 REICHERT, G. Apiculture et arboriculture. *Réveil Agr.* 58: 24. Jan. 15, 1949. 14 R322
- 28492 ROBINSON, D. S. Effect of roof colour on hive temperatures. *New Zeal. J. Agr.* 77: 509. Nov. 1948. 23 N48J
- 28493 ROEVER, J. G. DE. Bijen en bijenhouden [Bees and beekeeping]. Amsterdam, Ahrend, 1948. 593 p. 424 R62
- 28494 ROSENBERG, H. Apiculture during the last hundred years. (In Norwegian.) *Birøkteren* 64: 174-180. Dec. 1948. Ent. Sub-Br. Libr.
- 28495 ROUSSEAU. Intoxications d'abeilles consécutives à des dégagements de fumées d'usines. *Acad. d'Agr. de France. Compt. Rend.* 34: 930-933. Ref. Nov. 24/Dec. 1, 1948. 14 P215Bc
- 28496 SANJUÁN, J. Apicultura forestal. Valencia Avfc. 5(7): 24-25. Aug. 1948. 47.8 V23
- 28497 SCHIERBEEK, A. De honigbij van de steentijd tot heden [The honeybee from the stone age to the present]. Utrecht, Spectrum, 1947. 79 p. 424 Sch3
- 28498 SCHULER, M. Beekeeping in Germany. *Mod. Beekeeping* 33: 17-19, 23. Jan. 15, 1949. 424.8 B397
- 28499 SCOTT, T. L. Bee anatomy; internal. Section 5. II. The abdomen. Preparations of digestive tract. Nervous system. *Microscope* 7: 97-101. Nov./Dec. 1948. 440.8 M584
- 28500 SEWELL, B. The dancers. *Bee Craft* 30: 106. Dec. 1948. 424.8 B3925
- 28501 SHARMA, P. L. Modern hive. *Indian Bee J.* 10: 93-94, 97. Nov./Dec. 1948. 424.8 In2
- 28502 SINGLETON, A. Socialism in my back yard. *West. Canada Beekeeper* 12(2): 13-14. Feb. 1949. 424.8 W525
- 28503 SOLANO, R. La moderna apicultura española. *Cult. Mod.* 30: 448-449. Dec. 1947. 15 C89
- 28504 SOODER, M. Bienen und bienenhalten in der landschaft Saanen. *Schweiz. Bienen Ztg.* 71: 516-519. Dec. 1948. 424.8 Sch9
- 28505 STARNES, H. T. Every Tom, Dick, and Harry. *Beekeepers' Mag.* 11(12): 19-20. Dec. 1948. 424.8 M58  
Apiculture industry.
- 28506 STARNES, H. T. A new theory of hive heating. *Amer. Bee J.* 89(1): 12-13. Jan. 1949. 424.8 Am3
- 28507 STEINBACH, R. Dickwaben. *Imkerfreund* 3: 126-127. Dec. 1948. 424.8 Im43
- 28508 STONE, E. A. 1948. *Beekeeping* 15: 17. Jan. 1949. 424.8 B3991  
Beekeeping in Great Britain.
- 28509 TANNER, J. G. The Stewarton hive. *Scot. Beekeeper* 24: 209. Dec. 1948. 424.8 Sco8
- 28510 TELANDER, G. Are the bees conscious of the danger of poison? (In Swedish.) *Bitidningen* 47: 285. Sept. 1948. 424.8 B54
- 28511 TONTZ, C. California beekeeping item. *Mod. Beekeeping* 32: 796-797, 811. Dec. 15, 1948. 424.8 B397
- 28512 TONTZ, C. What's ahead for the beekeeper? *Gleanings Bee Cult.* 77(1): 9-12. Jan. 1949. 424.8 G47
- 28513 ULBRICH, F. Der stapelmagazinstock. *Imkerfreund* 3: 125-126. Dec. 1948. 424.8 Im43
- 28514 VANSELL, G. H., and TODD, F. E. Bee gathered pollen in various localities on the Pacific Coast. *Gleanings Bee Cult.* 77(1): 18-21. Jan. 1949. 424.8 G47
- 28515 VOMSATTEL, M. Einführungskurse in die krankheitsbekämpfung für vereinsdelegierte und vertrauensmänner. *Schweiz. Bienen Ztg.* 71: 509-510. Dec. 1948. 424.8 Sch9
- 28516 VOMSATTEL, M. Ökonomischer aufbau eines bienenzuchtbetriebes. *Schweiz. Bienen-Ztg.* 72: 7-11. Jan. 1949. 424.8 Sch9
- 28517 VSESOŮZNYĚ NAUCHNO-ISSLEDOVATEL'SKII INSTITUT PCHELOVODSTVA. Metody povysheniya produktivnosti i uskorenno go razmnozheniya pchelinykh semei [Methods of increasing productivity and of rapid propagation of honeybee colonies]. Moskva, Sel'khozgiz, 1948. 61 p. 424 V96
- 28518 WEBB, MRS. E. R. Bee pasture. *Mod. Beekeeping* 32: 808-809, 818. Dec. 15, 1948. 424.8 B397
- 28519 WEBB, MRS. E. R. A colony of bees is like a city. *Mod. Beekeeping* 33: 15-16. Jan. 15, 1949. 424.8 B397
- 28520 WENCKEBACH, E. W. Bacterium pluton. *Soc. d'Apic. des Alpes-Maritimes. B.* 27: 24-26. July/Sept. 1948. 424.9 So15  
Bacillus pluton, a causative organism of European foul brood.
- 28521 WINTER, T. S. How and when to establish a domestic apiary. *New Zeal. Dept. Agr. B.* 247: 1-8. 1948? 23 N48Bu



28522 WOLSTENCROFT, S. Bee sense and common-sense. *Good Bee-Keeping* 3: 160-162. Nov. 1948. Ent. Sub-Br. Libr.

28523 ZANDER, E. Our honeybees. (In Swedish.) *Bitidningen* 47: 333-335. Nov. 1948. 424.8 B54

Habits and behavior.

28524 ZANDER, E. D. H. Leitsätze einer zeitgemässen bienenzucht; ein bekenntnis und vermächtnis. Ed. 8, rev. Leipzig, Verlag der Leipziger Bienen-Zeitung, 1948. 62 p. 424 Z1B

28525 ZÜRCHER, H. Doppelverglasung am honig-raumfenster. *Schweiz. Bienen-Ztg.* 72: 12-13. Jan. 1949. 424.8 Sch9

#### Colony Management

28526 BÉCHARD, J. L. Vers une apiculture nouvelle. *Foyer Rur.* [Montreal] 8(5): 8, 15. Feb. 1949. 7 F83

28527 BELDAME, R. Le besoin de reines fécondes. *Gaz. Apic.* 503: 262-263. Oct. 1948. 424.8 G25

28528 BERNETT, A. W. Winter is coming. *Bee-keepers' Mag.* 11(11): 24-25. Nov. 1948. 424.8 M58

28529 BINDER, J. Spät begattete königinnen. *Imkerfreund* 3: 97. Oct. 1948. 424.8 Im43

28530 BOHNE, G. W. So you hived a swarm. *Bee-keepers' Mag.* 12(1): 12-13. Jan. 1949. 424.8 M58

28531 BRAUN, E. Problems of the new year. *West. Canada Beekeeper* 12(1): 15-16. Jan. 1949. 424.8 W525

28532 BÜDEL, A. Irrlehren! *Imkerfreund* 3: 91. Oct. 1948. 424.8 Im43

Packing.

28533 CHEESEMAN, E. Insect behaviour. *Scot. Beekeeper* 24: 194. Nov. 1948. 424.8 Sco8

Swarming of bees.

28534 COLE, B. H. G. Swarm control for national hives. *Beekeeping* 15: 3-5. Jan. 1949. 424.8 B3991

28535 CORN, L. La propriété des essaïms. *Apiculteur* 92: 285-288. Nov. 1948. 424.8 Ap3

28536 CRANE, E. E. The age at which young queens (*Apis mellifera*) begin to lay. *Bee World* 30: 15-19. Ref. Feb. 1949. 424.8 B399

28537 DAVIES, J. L. Alive in the hive. *Welsh Bee J.* 125-129. Nov. 1948. 424.8 W462

Colony management.

28538 DELPERÉE, R. Commentaires sur l'insémination des reines. *Belg. Apic.* 12: 231-232. Dec. 1948. 424.8 B41

28539 DOSSOGNE, R. Abeilles, aimeriez-vous habiter ce rucher du pays de Beaumont? *Hivernage au rucher* K. F. *Belg. Apic.* 12: 216. Nov. 1948. 424.8 B41

28540 FEES, H. Was spricht der bienenzuchter? *Imkerfreund* 3: 108-109. Nov. 1948. 424.8 Im43

28541 HAYDAK, M. H. Beekeeping in Minnesota; directions for colony management through the year. *Minn. U. Agr. Ext. B.* 204, rev., 37 p. June 1948. 275.29 M66S

28542 HEBDEN, A. Twenty questions on wintering bees. *Good Bee-Keeping* 3: 155-157. (Cont.) Nov. 1948. Ent. Sub-Br. Libr.

28543 HERBELSHEIMER, A. Behandlung des ober-laders ohne wärmeverluste. *Imkerfreund* 3: 92. Oct. 1948. 424.8 Im43

28544 JOHNSON, L. H. The requeening of domestic hives of bees. *New Zeal. J. Agr.* 77: 573-574. Dec. 1948. 23 N48J

28545 KELLER, W. Midwinter inspection of bees; it may be done as an emergency during a mild spell. *Gleanings Bee Cult.* 77(1): 17, 34, 53. Jan. 1949. 424.8 G47

28546 KJELLÉN, C. Escaping swarms. (In Swedish.) *Bitidningen* 47: 366-367. Dec. 1948. 424.8 B54

28547 LAIDLAW, H. H., JR., PARKER, R. L., and PARK, O. W. Improvement and breeding of the honey-bee: improvement accomplishments to date and future plans for improvement. (Abs.) *Amer. Assoc. Econ. Ent. North Cent. States Br. Proc.* 3: 69-70. 1948. 423.9 Am32

Package bee and queen improvement investigations, by H. H. Laidlaw, Jr. Improvement and breeding of the honeybee, Kansas State College, by R. L. Parker. Improvement and breeding of the honeybee, Iowa State College, by O. W. Park.

28548 LEFORT DES YLOUSES, G. Propriété des essaïms. *Apiculteur* 92: 245-248. Oct. 1948. 424.8 Ap3

28549 LEFORT DES YLOUSES, G. Réunions d'automne. *Apiculteur* 92: 284-285. Nov. 1948. 424.8 Ap3

28550 LUKE, H. H. How to make soft candy for winter use. *Amer. Bee J.* 89: 70-71. Feb. 1949. 424.8 Am3

28551 MAGES, L. Wie entstehen die eierlegenden arbeitsbienen? *Schweiz. Bienen-Ztg.* 72: 14-15. Jan. 1949. 424.8 Sch9

28552 MATHIS, M. Le couvain: estomac de la ruche. *Gaz. Apic.* 502: 238. Sept. 1948. 424.8 G25

28553 MEDICI, M. Como se cosecha la miel de abejas. *Campo y Suelo Argentino* 32(386): 35. Dec. 1948. 9 C15

28554 MOREAUX, R. Remérage spontané d'une colonie d'abeilles orpheline. *Apiculteur* 92: 250-253. Oct. 1948. 424.8 Ap3

28555 MULLER, H. Défense des abeilles contre le froid. *Gaz. Apic.* 503: 273-274. Oct. 1948. 424.8 G25

28556 PAINE, C. Things a beekeeper can do in winter. *Amer. Bee J.* 89: 75. Feb. 1949. 424.8 Am3

28557 RĂMAN, C. A. On the importance of hygiene for the development and existence of bee colonies. (In Swedish.) (Excerpts.) *Bitidningen* 48: 7-9. Jan. 1949. 424.8 B54

28558 RENNIE, L. C. Annual report from a one colony apiary in Southern Maryland. *Gleanings Bee Cult.* 77: 84-86. (To be cont.) Feb. 1949. 424.8 G47

28559 RICHARD, A. Histoire de reines: un remérage difficile. *Apiculteur* 92: 141-142. June 1948. 424.8 Ap3

28560 SCARBOROUGH, R. B. Wild bees engineered by an engineer; a stray swarm cooperates beautifully. *Gleanings Bee Cult.* 77(1): 22-24. Jan. 1949. 424.8 G47

28561 SLOANE, W. H. Honey hives and brood hives. *Australasian Beekeeper* 50: 153-154. Dec. 15, 1948. 424.8 Au72

28562 STRICKER, M. H. Yes—why not? *West. Canada Beekeeper* 12(1): 17, 19. Jan. 1949. 424.8 W525

Rearing queens.

28563 STRUDWICKE, A. J. Introducing queens and queen raising. *Australasian Beekeeper* 50: 146-147. Dec. 15, 1948. 424.8 Au72

28564 TALWAR, R. C. Apiary management; care of bees during winter in the plains. *Indian Bee J.* 10: 101-105. Nov./Dec. 1948. 424.8 In2

28565 TAYLOR, I. Cell building. *Australasian Beekeeper* 50: 125-127. Nov. 15, 1948. 424.8 Au72

28566 TILLIÈRE, A. Ruches à deux reines. *Belg. Apic.* 12: 204-206. Nov. 1948. 424.8 B41

28567 TONNEAU, J. Discussions sur l'hivernage. *Gaz. Apic.* 503: 264-266. Oct. 1948. 424.8 G25

28568 VANDERPLANK, F. L. Hand mating of queens. *Brit. Bee J.* 76: 445. Dec. 2, 1948. 424.8 B77

28569 VAN TOL FILHO, P. L. Drone bees. (In Portuguese.) *Chacaras e Quintais* 78: 343. Sept. 15, 1948. 9.2 C34

Hive arrangement.

28570 WÄFLER, J. 55 jahre bienenzucht. *Schweiz. Bienen-Ztg.* 72: 17-23. (To be cont.) Jan. 1949. 424.8 Sch9

28571 WALDÉN, N. P. Episode. (In Swedish.) *Bitidningen* 47: 338. Nov. 1948. 424.8 B54

Swarming.

28572 WEBER, M. Artificial insemination of queens. (In Swedish.) *Bitidningen* 47: 364-366. Dec. 1948. 424.8 B54

See also Honey and Beeswax in Agricultural Products Section.

#### ARACHNIDA, MYRIAPODA, ETC.

28573 ALVAREZ V., J. M. Sarcopitoidea Megninia velata encontrado en la República Dominicana. *Dominican Rep. Sec. de Estado de Agr. Pecuaria y Colon. Agr.* 39(181): 14-15. Nov./Dec. 1948. 8 R323

28574 ARTHUR, D. R. Some aspects of the ecology of the tick, *Ixodes ricinus*, L., in Wales. *B. Ent. Res.* 39: 321-337. Ref. Dec. 1948. 421 B87

28575 BEQUAERT, J. Additional records of bird ticks for the northeastern United States. *Brooklyn Ent. Soc. B.* 156. Dec. 1948. 420 B79

*Haemaphysalis leporis-palustris* on three new hosts.



- 28576 BESSELING, A. J. Netherlands Hydrachnellae. XXVIII. (In Dutch.) Ent. Ber. 12: 261-263, 275-278. July 1, Sept. 1, 1948. 420 N38B
- 28577 BRENNAN, J. M. New North American chiggers (Acarina, Trombiculidae). J. Parasitol. 34: 465-478. Dec. 1948. 448.8 J824
- New species in Neoschöngastia, Euschöngastia, and Trombicula.
- 28578 BRUES, C. T. The distribution of Onychophora in New Guinea and neighboring islands. Psyche 55: 181-183. Ref. Dec. 1948. 421 P95
- 28579 CARLSON, F. W. Tests of toxicants for the peach silver mite [Vasates cornutus]. J. Econ. Ent. 41: 836. Oct. 1948. 421 J822
- 28580 CLOUDSLEY-THOMPSON, J. L. Observations on the ecology of arachnids in north-west Iceland. Ann. & Mag. Nat. Hist. (ser. 12) 1: 437-447. Ref. June 1948, pub. Dec. 31, 1948. 410 An77
- 28581 CROSS, H. F. Use of powders on clothing for protection against chiggers. J. Econ. Ent. 41: 731-734. Oct. 1948. 421 J822
- Tests with benzil, p-cresyl benzoate, diphenyl carbonate, and 2-thenyl salicylate against Trombiculidae.
- 28582 DENIS, J. Araignées de France. II. Araignées des Monts Dore. Rev. Franç. d'Ent. 15: 236-249. 1948. 421 R323
- Includes new species in Diplocephalus, Blaniargus, and Centromerus.
- 28583 EWING, H. E. A note on the effect of engorgement on the arrangement of the dorsal abdominal setae in chiggers [Eutrombicula alfreddugèsi] (Acarina). Ent. Soc. Wash. Proc. 50: 219-221. Nov. 1948. 420 W27
- 28584 EXLINE, H. Morphology, habits, and systematic position of Allepeira lemniscata (Walckenaer) (Araneida: Argiopidae, Allepeirinae). Ent. Soc. Amer. Ann. 41: 309-325. Ref. Sept. 1948. 420 En82
- Allepeirinae, new subfamily.
- 28585 FORSTER, R. R. The sub-order Cyphophthalmi Simon in New Zealand [Phalangida]. New Zeal. Dominion Mus. Recs. Ent. 1: 79-119. Oct. 1, 1948. 421 W46
- Includes new species in Rakaia and Neopurcellia n. g.
- 28586 GOODRUM, P., BALDWIN, W. P., and ALDRICH, J. W. Effect of DDT on animal life of Bull's Island, South Carolina. J. Wildlife Mangt. 13(1): 1-10. Jan. 1949. 410 J827
- Results of airplane spraying for tick control.
- 28587 GORHAM, J. R. A method for treating ear mites [Otodectes cynotis] in foxes. Amer. Fur Breeder 21(7): 42. Jan. 1949. 410 Am33
- Also in Fur Farming J. 2(4): 16. Jan./Feb. 1949. 45 K142
- 28588 GRANDJEAN, F. Sur les écarts dans un clone de Platynothrus peltifer (Acarien). Paris. Acad. des Sci. Compt. Rend. 227: 658-661. Oct. 4, 1948. 505 P21
- 28589 GREER, W. E. R. Arachnidism; effect of calcium gluconate in six cases. New England J. Med. 240(1): 5-8. Ref. Jan. 6, 1949. 448.8 N442
- Treatment of persons bitten by Latrodectus mactans.
- 28590 GUILHON, J. Propriétés acaricides des insecticides chlorés. Rec. de Méd. Vét. 124: 481-502. Nov. 1948. 41.8 R24
- 28591 HILL, R. Parthenogenesis bei Nagara modesta Dollf. (Isopodae). Chromosoma 3: 232-256. Ref. 1948. 442.8 C46
- 28592 IHAROS, A. The Tardigrada fauna of the Tihany Peninsula. Arch. Biol. Hungar. (Ser. 2) 17: 38-43. 1947. 442.9 M27
- 28593 IMMS, A. D. Mites and stored food products. Nature [London] 163: 39. Jan. 1, 1949. 472 N21
- 28594 JOAN, T., and LUCAS, G. C. Ciclo evolutivo del Psoroptes ovis (Her.) Gerv. Observaciones a su bionomía. Interpretación actual y aplicación tecnológica. Argentina. Dir. de Inform. P. Misc. 299, 32 p. Ref. 1948. 9 P943
- 28595 LAWRENCE, R. F. Some observations on the eggs and newly hatched embryos of Solpuga hostilis White (Arachnida). London. Zool. Soc. Proc. 117: 429-434. Oct. 1947. 410.9 L84P
- 28596 LEES, A. D. Passive and active water exchange through the cuticle of ticks. Faraday Soc. Discuss. 1948(3): 187-192. 382 F22D
- 28597 LLOYD, R. W. On Opilio saxatilis (C. L. Koch) (Arachnida, Opiliones). Ent. Monthly Mag. 84: 283. Dec. 1948. 421 En86
- 28598 MCGREGOR, E. A. Classification, food plants, and distribution of the spider mites [Tetranychidae]. J. Econ. Ent. 41: 684-687. Oct. 1948. 421 J822
- 28599 MCGREGOR, E. A. A newly detected structure in certain tetranychid mites (Acarina). Ent. Soc. Wash. Proc. 50: 173-175. Ref. Oct. 1948. 420 W27
- 28600 MAGALHÃES, O. DE. Anti-scorpion serum. (In Portuguese.) Inst. Oswaldo Cruz Mem. 45: 847-851. 1947. 448.9 In74
- 28601 MAQSOOD, M. Occurrence of Cytolichus nudus in pheasants. Vet. Med. 44: 134. Mar. 1949. 41.8 M69
- 28602 MARSON, J. E. Some observations on the variations in the camouflage devices used by Cyclosa insulana (Costa), an Asiatic spider, in its web. London. Zool. Soc. Proc. 117: 598-605. Oct. 1947. 410.9 L84P
- 28603 MARTIN, C. H. Movement and seasonal populations of the garden centipede [Scutigereella immaculata] in greenhouse soil. J. Econ. Ent. 41: 707-715. Oct. 1948. 421 J822
- 28604 MELLO-LEITÃO, C. DE. Spiders from Carmo do Rio Claro (Minas Gerais) collected by the naturalist José C. M. Carvalho. (In Portuguese.) Brazil. Mus. Nac. B. Nov. Sér. Zool. 80, 34 p. Aug. 11, 1947. 516 R47Bz
- English summary.
- Includes n. spp. in Scytodes, Miagrammopsis, Uloborus, Oxyopes, Ariamnes, Agriognatha, Larinia, Acentroscelus, Fageia, Misumenoides, Synaema, Titidius, Tmarus, Castianeira, Trachelas, Amycus, Gertschnusa n. g., Mago, Ocnotelus, Phiale, Rheme, Sarinda, Semora, Thiodina, Gayenna, and Teudis.
- 28605 MILNE, A. Pasture improvement and the control of sheep tick (Ixodes ricinus L.). Ann. Appl. Biol. 35: 369-378. Ref. Sept. 1948. 442.8 An72
- 28606 NEISWANDER, R. B. Greenhouse symphyliid [Scutigereella immaculata]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 81-82. 1948. 423.9 Am32
- 28607 NEWCOMER, E. J., and DEAN, E. P. Studies of orchard acaricides. J. Econ. Ent. 41: 691-694. Oct. 1948. 421 J822
- 28608 PETRUNKEVITCH, A. A study of the structure, classification and relationships of the Palaeozoic Arachnida based on the collections of the British Museum. Conn. Acad. Arts & Sci., Trans. 37: 69-315. Ref. Jan. 1949. 500 C76T
- 28609 PRADO, J. DE, and GIL COLLADO, J. Una experiencia de tratamiento de la sarna humana con el hexaclorociclohexano. Rev. Ibérica de Parasitol. 8: 411-415. Oct. 1948. 436.8 R32
- Sarcoptes scabiei.
- 28610 PRATT, H. D., and MCCAULEY, R. H., JR. Two interesting tick records from Georgia. J. Econ. Ent. 41: 832. Oct. 1948. 421 J822
- Dermacentor albipictus and Ixodes scapularis on deer. Mating behavior of I. scapularis.
- 28611 RADFORD, C. D. Two new bat-mites of the genus Ancyrostropus (Acarina: Spinturnicidae). London. Zool. Soc. Proc. 117: 305-312. Oct. 1947. 410.9 L84P
- 28612 REIS, J. L. M. Let us fight the ticks. (In Portuguese.) Rev. dos Criadores 19(12): 40. Dec. 1948. 43.8 R32
- 28613 RODRIGUEZ, J. G. The effect of a three-month exposure of mites [Tetranychus bimaculatus] to radiophosphorus. Ohio. Engin. Expt. Sta. News 20(5): 54-56. Dec. 1948. 290.9 Oh3En
- 28614 ROMAN, E., and NALIN, P. Invasion d'ornithodoros [Ornithodoros coniceps] dans une habitation humaine en Haute-Provence. Ann. de Parasitol. Humaine et Compar. 23: 214-219. Ref. 1948. 436.8 An7
- 28615 ROSENSTIEL, R. G. Laboratory effects of parathion on the two-spotted mite [Tetranychus bimaculatus]. J. Econ. Ent. 41: 835-836. Oct. 1948. 421 J822
- 28616 SCHUBART, O. Diplopoda collected on the journey of the naturalist Antenor Leitão de Carvalho to the Araguaia and Amazon Rivers in 1939 and 1940. (In Portuguese.) Brazil. Mus. Nac. B. Nov. Sér. Zool. 82, 74 p. Aug. 30, 1947. Ref. 516 R47Bz
- English summary.
- Includes n. spp. in Alloporeus, Gangugia n. g., Leptodesmus, Rhinocricus, Stenostreptus, Orthoporus, Pseudonannolene, Araguayadesmus n. g., Paraphilus n. g., Ancistroxenus n. g., Priodesmus, Lophodesmus, Arndtodesmus, Siphonoconus, Siphonophora, and Gymnostreptus.



- 28617 SERGENT, E. Immunité naturelle du crapaud et du hérisson contre le venin de scorpion [*Prionurus australis*]. Inst. Pasteur d'Algérie, Arch. 26: 253-255. 1948. 448.3 In7A
- 28618 SERGENT, E. Sérothérapie antiscorpionique (onzième note). Observations médicales reçues pendant l'année 1947. Inst. Pasteur d'Algérie, Arch. 26: 256-258. 1948. 448.3 In7A
- 28619 SHERMAN, F., III, and KING, H. L. Tests in 1947 against the two-spotted spider mite [*Tetranychus bimaculatus*]. J. Econ. Ent. 41: 807-808. Oct. 1948. 421 J822
- Parathion effective.
- 28620 SOARES, B. A. M., and SOARES, H. E. M. Opiliones belonging to the Gert Hatschbach collection. (Opiliones - Gonylpetidae, Phalangodidae, Phalangidae). (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 8: 209-230. Sept. 13, 1947. 410.9 Sa63
- English summary.
- Includes new species in *Ilhaia*, *Daguerreia*, *Discocyrtus*, *Metatylcomedes*, *Neopachylus*, *Paranaleptes* n. g., *Uropachylus*, and *Paramitraceras*.
- 28621 SOARES, B. A. M., and SOARES, H. E. M. Opiliones from the Gofferjé collection. (Opiliones - Gonylpetidae). (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 8: 249-259. Sept. 22, 1947. 410.9 Sa63
- English summary.
- Includes new species in *Discocyrtoides*, *Melloleitania*, *Gyndoides*, *Metagraphinotus*, and *Paraprosontes* n. g.
- 28622 SPITALNICK, S. La carie del queso. Buenos Aires. Dir. Med. Vet. B. 5(23/26): 30-32. 1948. 41.9 B865
- Tyrophagus longior* and *Acarus siro*.
- 28623 STANDTMANN, R. W. The mesostigmatic nasal mites of birds. I. Two new genera from shore and marsh birds. J. Parasitol. 34: 505-514. Dec. 1948. 448.8 J824
- Larinyssus*; *Rallinyssus*.
- 28624 STEINER, L. F., and CUTRIGHT, C. R. Mite control in orchards. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 106-112. 1948. 423.9 Am32
- Mites and their natural enemies, by L. F. Steiner. Tetraethyl pyrophosphate for European red mite [*Paratetranychus pilosus*] control, by C. R. Cutright. Problem of taking data, by L. F. Steiner.
- 28625 STRANDTMANN, R. W. *Atricholaelaps traubi* and *A. chinchillulae*, from *Callosciurus* and the chinchilla respectively (Acarina). Ent. Soc. Wash. Proc. 50: 187-192. Oct. 1948. 420 W27
- 28626 STROUHAL, H. *Trichoniscus ostarrichius*, eine neue zwergassel aus dem nordöstlichen Österreich. Akad. der Wiss. Wien, Math.-Nat. Kl. Sitzber. Abt. 1 155: 231-241. 1947. 510 V67
- 28627 TANNER, V. M. Strawberries damaged by a diplopod [*Nopoiulus minutus*]. Great Basin Nat. 9(1/2): 23. Dec. 30, 1948. 410 G79
- 28628 TAYLOR, D. J., MULRENNAN, J. A., and THURMAN, D. C., JR. Species of ticks associated with Rocky Mountain spotted fever cases in Florida. J. Econ. Ent. 41: 809-811. Oct. 1948. 421 J822
- Dermacentor variabilis* most likely vector; possibly *Amblyomma americanum*.
- 28629 VACHON, M. Etudes sur les scorpions. Inst. Pasteur d'Algérie, Arch. 26: 288-316. (Cont.) 1948. 448.3 In7A
- Chapt. III (Cont.) Description des scorpions du Nord de l'Afrique. 6. Genus *Androctonus*.
- 28630 VOGELSANGER, T. Beitrag zur kenntnis der spinnenfauna des Kantons Graubünden. Naturf. Gesell. Schaffhausen. Mitt. 22: 33-72. Ref. 1947/48. 508 Sch2
- 28631 WAHLGREN, E. Eriophyid galls of biogeographical interest. (In Swedish.) Ent. Tidskr. 69: 161-205. Ref. 1948. 421 En891
- German summary.
- 28632 WARD, G. W. The sheep itch mite [*Psorergates ovis*]. Westralian Farmers' Co-op Gaz. 14(363): 315-317. Nov. 1948. 280.28 W522
- 28633 WAROGUIEZ, P. Né des grandes chaleurs, le pou rouge ravage nos basses-cours; comment le détruire? Moisson 3(103): 3. Aug. 29/Sept. 4, 1947. 14 M72
- Argas persicus*.
- 28634 WEBER, N. A. Observations on the incidence of ticks on Kenya mammals. Ent. News [Philadelphia] 59: 235-242. Nov. 1948. 421 En88

28635 WEBSTER, R. L. Mites of economic importance in the Pacific Northwest. J. Econ. Ent. 41: 677-683. Oct. 1948. 421 J822

*Bryobia praetiosa*, *Tetranychus pacificus*, *T. bimaculatus*, *T. willamettei*, *Paratetranychus pilosus*, *Eriophyes pyri*, *E. essigi*, *Phyllocoptes gracilis*, and *Vasates schlechtendali*.

28636 WINGO, C. W., and THOMAS, G. W. Development of the two-spotted spider mite [*Tetranychus bimaculatus*] in the presence of DDT and other insecticides. J. Econ. Ent. 41: 688-691. Oct. 1948. 421 J822

28637 WYLAND, P. E. Cyclamen mite [*Tarsonemus pallidus*] and broad mite [*Tarsonemus latus*] and their control. African Violet Mag. 2(2): 12-16. 1948. 80 Af8

28638 ZOTTNER, CHEVRIER, and CAMOU. Le thiophosphate de p. nitrophényle et de diéthyle; sa toxicité - son action contre les Ixodes. Rev. de Méd. Vét. [Toulouse] 99: 554-557. Dec. 1948. 41.8 R32

Parathion.

#### COLEOPTERA

28639 ALLEN, A. A. Two species of Coleoptera new to Britain, in Kent. Ent. Monthly Mag. 84: 287-288. Dec. 1948. 421 En86

*Lagria atripes*; *Mecinus janthinus*.

28640 ANDERSON, W. H. A note on synonymy in Scolytidae (Coleoptera). Ent. Soc. Wash. Proc. 50: 215. Nov. 1948. 420 W27

*Bothrosternus hubbardi* Schwarz = *Pagiocerus frontalis* (F.).

28641 ARMAND, J. E. The control of wireworms in southwestern Ontario (a preliminary report). Ontario Ent. Soc. Ann. Rpt. (1947) 78: 15-24. 1948. 420 On8

Chlordane and benzene hexachloride tested against *Limoniura ectypus*.

28642 ARNOTT, D. A. The clover seed weevils, *Tychius picirostris* Fabricius and *Tychius griseus* Schaeffer as pests of clover seed in southwestern Ontario. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 47-50. Ref. 1948. 420 On8

28643 ARROW, G. J. A horned melolanthine beetle [*Ceratolontha venezuelae* n. g., n. sp.] from South America. Ann. & Mag. Nat. Hist. (ser. 12) 1: 371-375. May 1948 pub., Dec. 8, 1948. 410 An77

28644 AZIZ, M. A., and SITARAMAN, N. L. Studies on the *Dinoderus* borer in bamboo. I-II. Indian Acad. Sci. Proc. Sect. B 28: 99-105. Sept. 1948. 513 In25B

28645 BALFOUR-BROWNE, F. Rediscovery of *Halipilus apicalis* Thoms. (Col. Halipilidae) in Dumfries-shire. Ent. Monthly Mag. 84: 277. Dec. 1948. 421 En86

28646 BALFOUR-BROWNE, J. A revision of the genus *Psalitrus* d'Orchymont. (Coleoptera: Palpicornia; Sphaeridiinae). Ann. & Mag. Nat. Hist. (ser. 12) 1: 377-391. June 1948, pub. Dec. 31, 1948. 410 An77

28647 BARTLETT, K. A. A toad serves the sugar industry of Puerto Rico. U. S. Agr. Res. Admin. Res. Achvt. Sheet 118, 2 p. Jan. 1949. 1.98 R31

Control of Phyllophaga.

28648 BASILEWSKY, P. Un *Cylindrocranius* nouveau de l'Afrique Occidentale Française (Coleoptera Lebiidae). Rev. Franç. d'Ent. 15: 230-231. 1948. 421 R323

28649 BASILEWSKY, P. Descriptions de Coléoptères Carabidae nouveaux d'Afrique et notes diverses sur des espèces déjà connues. III. Soc. Ent. de France B. 53: 107-111. July 21, 1948. 420 F84B

New forms in *Graphipterus*, *Thermophila*, *Cypholoba*, and *Netrodera*.

28650 BECHYNE, J. Coléoptères d'Angola. Phytophaga, Chrysomelidae et Halticidae. Rev. Suisse de Zool. 55: 533-548. Dec. 1948. 410 R324

Includes new species in *Monardita* n. g., *Chrysolina*, and *Blepharida*.

28651 BECHYNE, J. Les *Timarcha* des Pyrénées françaises (Coléoptères Chrysomelidae). Rev. Franc. d'Ent. 15: 197-208. 1948. 421 R323

Includes new species and forms.

28652 BEFFA, G. DELLA. Doryphore [*Leptinotarsa decemlineata*] and "tiogamma." (In Italian.) Gior. di Agr. 58: 368. Dec. 26, 1948. 16 It1G

28653 BEIER, M. Zur kenntnis von körperbau und lebensweise der Helminen (Col. Dryopidae). Eos 24: 123-211. Ref. June 30, 1948. 421 Eo7

Spanish summary.



28654 BERAN. Die internationale kartoffelkafer-konferenz. Wiener Bauernbündler 1(14): 5. Oct. 30, 1948. 19 W632

Leptinotarsa decemlineata.

28655 BLACKWELDER, R. E., and BLACKWELDER, R. M. Fifth supplement 1939 to 1947 (inclusive) to The Leng Catalogue of Coleoptera of America, north of Mexico. Mount Vernon, N. Y., Sherman, 1948. 87 p. 427 L54

28656 BORGMEIER, T. Zur kenntnis der bei Eciton lebenden myrmekophilen Histeriden (Col.). Rev. de Ent. 19: 377-400. Ref. Dec. 1948. 421 R326

Includes new species in Nomadister n. g., Tubulister n. g., Pterotister, and Ecitonister.

28657 BRINDLEY, T. A., SCHOPP, R., and HINMAN, F. G. Field tests versus laboratory tests with DDT against the pea weevil [Bruchus pisorum]. J. Econ. Ent. 41: 832-833. Oct. 1948. 421 J822

28658 CAMERON, M. New species of African Staphylinidae. Rev. Franç. d'Ent. 15: 231-233. 1948. 421 R323

In Holotrochus, Osorius, Pinophilus, and Aleochoandria n. g.

28659 CAMERON, M. New species of Mexican Staphylinidae. Rev. Franç. d'Ent. 15: 233. 1948. 421 R323

In Euvira.

28660 CASIERI, U. Potato pest or the menace of the doryphore [Leptinotarsa decemlineata]. (In Italian.) Mezzogiorno Agr. 4(37): 3. Sept. 26, 1948. 16 M57

28661 CHANDLER, S. C. BHC and chlordanes for plum curculio [Conotrachelus nenuphar] and peach insects. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 101-102. 1948. 423.9 Am32

28662 COOK, W. C., LANE, M. C., and STONE, M. W. Control of wireworms in irrigated lands with ethylene dibromide. U. S. Bur. Ent. and Plant Quar. EC-6, 8 p. Dec. 1948. 1.967 A2Ec1

28663 CORPORAAL, J. B. Further notes on systematics and synonymy. (29th communication on Cleridae). Ent. Ber. 12: 286-288. Nov. 1, 1948. 420 N38B

28664 COTTON, R. T., FRANKENFELD, J. C., and DENNIS, N. M. Residual sprays for use against the confused flour beetle [Tribolium confusum]. U. S. Bur. Ent. and Plant Quar. E-766, 15 p. Dec. 1948. 1.9 En83

28665 CUISANCE, P. La lutte contre les hannetons et les vers blancs. Prog. Agr. et Vitic. 1948: 238-240. Oct. 31, 1948. 14 P94

Melolontha.

28666 DAGGY, T. Observations on the life cycle of Alaus oculatus (L.) (Coleoptera: Elateridae). (Abs.) Elisha Mitchell Sci. Soc. J. 64: 180. Dec. 1948. 500 EL4

28667 DIBB, J. R. Description of a new species of Passalidae [Passalus nodifrons] (Col.) from Bolivia. Ent. Monthly Mag. 84: 284. Dec. 1948. 421 En86

28668 DIBB, J. R. Field book of beetles. Hull, Eng., Brown, 1948. 197 p. 427 D54

28669 DOBBINS, T. N. Insecticide tests for the control of coleopterous larvae attacking peanuts in the soil. J. Econ. Ent. 41: 815-816. Oct. 1948. 421 J822

Diabrotica undecimpunctata, Strigoderma arboricola, etc.

28670 DONISTHORPE, H. Some notes on Ptinus tectus, Boieldieus (Ptinidae) (Col.). Ent. Rec. & J. Variation 60: 119. Dec. 1948. 421 En89

28671 DOUCETTE, C. F. Field parasitization and larval mortality of the cabbage seedpod weevil [Ceutorhynchus assimilis]. J. Econ. Ent. 41: 763-765. Oct. 1948. 421 J822

28672 DUCET, G., and GRISON, P. Variation de la teneur en lipides choliniques du doryphore [Leptinotarsa decemlineata], au cours de sa vie imaginaire et en fonction de son alimentation. Paris. Acad. des Sci. Compt. Rend. 227: 1272-1274. Dec. 8, 1948. 505 P21

28673 DUVAL, G., SAUER, H. F. G., and FALANGHE, O. Late treatment of coffee plantations with benzene hexachloride. (In Portuguese.) Biológico 14: 199-211. Sept. 1948. 442.8 B529

For control of Stephanoderes hampei.

28674 EMDEN, F. I. VAN. A Trox larva feeding on locust [Schistocerca gregaria] eggs in Somalia. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 145-148. Dec. 15, 1948. 420 L84Pb

28675 ESPAÑOL COLL, F. Resultados de una campaña biospeleológica realizada en la región media occidental de Navarra durante la segunda quincena de septiembre de 1947. Coleópteros. Eos 24: 233-245. June 30, 1948. 421 Eo7

Includes Urbasolus, new subgenus of Speonomus, with a new species.

28676 FALANGHE, O. Appearance of a beetle borer [Paradiaphorus crenatus] as pest of pineapple. (In Portuguese.) Biológico 14: 165-167. July 1948. 442.8 B529

28677 FERGUSON, J., and PIRIE, H. The toxicity of vapours to the grain weevil [Sitophilus granarius]. Ann. Appl. Biol. 35: 532-550. Dec. 1948. Ref. 442.8 An72

Tests with many different organic fumigants.

28678 FISCHER, A. Borkenkäfertragung in Freiburg i. Br. Holz-Zentbl. 74: 565. Nov. 26, 1948. 99.81 H742

28679 FISHER, R. C. D. D. T. and control of Lyctus powder-post beetles. Empire Forestry Rev. 27: 303-305. Dec. 1948. 99.8 Em72

28680 FISHER, W. S. A new anobiid beetle [Xestobium abietis] from British Columbia. Canad. Ent. 79: 236-237. Nov./Dec. 1947. 421 C16

28681 GAMBRELL, F. L. DDT, Ryania, and benzene hexachloride for control of the elm leaf beetle [Galerucella xanthomelaena]. J. Econ. Ent. 41: 770-773. Oct. 1948. 421 J822

28682 GRAVESTEIN, W. H. A new aberration of Cicindela maritima Latr. (Cicind.: Coleoptera). Ent. Ber. 12: 260. July 1, 1948. 420 N38B

28683 GRISON, P. Action des léctithines sur la fécondité du doryphore [Leptinotarsa decemlineata]. Paris. Acad. des Sci. Compt. Rend. 227: 1172-1174. Nov. 29, 1948. 505 P21

28684 GRISON, P. Le doryphore [Leptinotarsa decemlineata] et le ricin. Acad. d'Agr. de France. Compt. Rend. 34: 943-944. Nov. 24/Dec. 1, 1948. 14 P215Bc

28685 GRUNNOW, H. Zu: erkenntnisse und erfahrungen bei der borkenkäferbekämpfung 1948 und ihre auswertung. Forstw., Holzw. 2: 301-302. Oct. 1, 1948. 99.8 F7793

28686 GUNDERSON, H. Effect of clover leaf weevil [Hypera punctata] on forage yield and quality. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 92. 1948. 423.9 Am32

28687 HABU, A. On the Japanese species of the genus Oxycetrus (Carabidae). (In Japanese.) Mushi 18: 27-28. Sept. 25, 1947. 421 M97

Includes O. septemtrionalis n. sp. with description in English.

28688 HAMMOND, G. H. Control of Phyllophaga spp. beetles with DDT and benzene hexachloride (a preliminary report). Ontario Ent. Soc. Ann. Rpt. (1947) 78: 24-28. 1948. 420 On8

28689 HAUSSMANN, G. Control of doryphore [Leptinotarsa decemlineata] and the use of "tiogamma." (In Italian.) Gior. di Agr. 58: 280. Oct. 10, 1948. 16 It1G

28690 HILL, R. E. Chemical control of soil insects. Corn rootworms [Diabrotica spp.]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 22-23. 1948. 423.9 Am32

28691 HOLENSTEIN, R. Engerlingsbekämpfung in reben. Schweiz. Z. f. Obst- u. Weinbau 57: 439-442. Dec. 4, 1948. 80 Sch9

Melolontha sp.?

28692 JANNONE, G. Studies and research on agricultural entomology in Ethiopia and Eritrea. I. (In Italian.) Riv. di Agr. Subtrop. e Trop. 41: 43-54. Ref. Jan./Mar. 1947. 26 Ag82

Tanymericus abyssinicus.

28693 KAPUR, A. P. A note on the genus Merma Weise, with a description of a new species (Coleoptera, Coccinellidae). Entomologist 81: 281-284. Dec. 1948. 421 En8

28694 KAUTER, A. Die behebung von englerlings-schäden [Melolontha vulgaris] durch düngung und einsaat. Zürich? 1948? 4 p. 427 K16

28695 KERSTENS, J. Control of the pear blossom beetle [Anthonomus piri]. (In Afrikaans.) Boer en Tuinder 2(87): 2. Sept. 1948. 12 B632

28696 KULASH, W. M. The control of the rice weevil [Sitophilus oryza] and the Angoumois grain moth [Sitotroga cerealella]. J. Econ. Ent. 41: 715-718. Oct. 1948. 421 J822

Tests with DDT and mixtures.



- 28697 KUNHENN, P. Naturkatastrophe durch engerlinge. Landfrau 3(21/22): 14. Nov. 1948. 18 L2337  
Melolontha larvae.
- 28698 LANE, M. C. Some generic corrections in the Elateridae. I-II. (Coleoptera). Ent. Soc. Wash. Proc. 50: 179-182, 221-223. Oct., Nov. 1948. 420 W27  
I. Elater, Ctenicera, and Ampedus. II. Hypolithus and Negastris.
- 28699 LANGFORD, G. S., and CORY, E. N. Host preference in Japanese beetles [Popillia japonica] with special reference to grape and apple. J. Econ. Ent. 41: 823-824. Oct. 1948. 421 J822
- 28700 LEGROS, C. Dytiscides nouveaux de la Guadeloupe (Col.). Soc. Ent. de France B. 53: 103-107. July 21, 1948. 420 F84B  
New species in Celina and Copelatus.
- 28701 LEPESME, P. Deux nouveaux Prosopocera du Congo Belge (Col. Cerambycidae). Soc. Ent. de France B. 53: 100. July 21, 1948. 420 F84B
- 28702 LEWIS, R. W. Artificial inoculation of rye with ergot. A susceptible rye and the control of ergot beetles [Acylosmus ergoti]. Amer. Pharm. Assoc. J. Sci. Ed. 37: 511-513. Dec. 1948. 396.9 Am33J
- 28703 LINSLEY, E. G. The genus Trachys in the United States. N. Y. Ent. Soc. J. 56: 251. Dec. 1948. 420 N48J
- 28704 MCELROY, W. D., and RAINWATER, C. S. Spectral energy distribution of the light emitted by firefly [Photinus pyralis] extracts. J. Cell. & Compar. Physiol. 32: 421-425. Dec. 1948. 444.8 J822
- 28705 MALKIN, B. A new Attalus from the western United States (Coleoptera: Malachidae). Pan-Pacific Ent. 24: 207-208. Oct. 1948. 421 P193
- 28706 MARSHALL, SIR G. A. K. On the curculionid genus Spartecerus Schönherr (Col.). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 137-141. Dec. 15, 1948. 420 L84Pb
- 28707 MARSHALL, SIR G. A. K. On the genus Phrixopogon Mshl. (Coleoptera, Curculionidae). London. Zool. Soc. Proc. 117: 689-707. Feb. 1948. 410.9 L84P  
Includes new species; also the new genera Eryngus and Epius.
- 28708 MAULIK, S. Early stages and habits of Sindia clathrata (Fabricius) (Cassidinae, Chrysomelidae, Coleoptera). Ann. & Mag. Nat. Hist. (ser. 12) 1: 368-371. May 1948, pub., Dec. 8, 1948. 410 An77
- 28709 MAXWELL, C. W. B. Further experiment on the control of the strawberry weevil, Anthonomus signatus Say. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 51-56. 1948. 420 On8
- 28710 MITONO, T. On two new species of the genus Pseudallotraeus (Col., Cerambycidae). (In Japanese.) Mushi 18: 23-26. Sept. 25, 1947. 421 M97
- 28711 MOROCCO. SERVICE DE L'HORTICULTURE. Mortalités comparées de différentes amygdalées. Rabat? 1947? 3 p. 93.29 M82M  
Capnodis tenebrionis on almond, peach, apricot, and plum.
- 28712 MUNRO, J. A. Effect of sweet clover weevil [Sitona cylindricollis] on forage yield and quality. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 91-92. 1948. 423.9 Am32
- 28713 NEISWANDER, C. R. A quick way of evaluating differences in the susceptibility or resistance of corn strains to insect [Pyrausta nubilalis] injury. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 30-31. 1948. 423.9 Am32
- 28714 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Control of black beetle [Heteronychus sanctae-helenae] in greens. n. p., 1947. 2 p. 427 N472  
Use of benzene hexachloride.
- 28715 OCHS, G. Checklist of Neotropical Gyrinoidea (Col.). Rev. de Ent. 19: 565-567. Dec. 1948. 421 R326
- 28716 O'MAHONY, E. Anommatus 12-striatus Müll. (Col., Colydiidae) and Adalia bipunctata L. (Col., Coccinellidae) in Dublin. Ent. Monthly Mag. 84: 284. Dec. 1948. 421 En86
- 28717 ORCHYMONT, A. D'. Report on the Palpicornia (Coleoptera), Mr. Omer-Cooper's Investigation of the Abyssinian fresh waters (Hugh Scott Expedition). (In French.) London. Zool. Soc. Proc. 117: 716-741. Feb. 1948. 410.9 L84P  
Includes new species and forms in Parhydraena, Helophorus, Pseucyon n. g., Laccobius, Helochares, and Berosus.
- 28718 PALM, T. An attack of Dendroctonus micans Kugel on pine (Col. Scolytidae). (In Swedish.) Ent. Tidskr. 69: 212-214. 1948. 421 En891
- 28719 PALM, T. Elcolyctus brunneus Gyll. (Col. Cucujidae) found in Sweden. (In Swedish.) Ent. Tidskr. 69: 207-211. 1948. 421 En891  
German summary.
- 28720 PARK, O. Studies in Japanese Pselaphidae (Coleoptera), I. Introductory materials, checklist, and key to genera. Chicago Acad. Sci. B. 8: 203-221. Ref. 1948. 500 C43B
- 28721 PARKER, D. E. Insects associated with diseases of the American elm. (Abs.) Ent. Soc. Wash. Proc. 50: 195. Oct. 1948. 420 W27  
Transmission of diseases by Scolytus multistriatus, Hylurgopinus rufipes, and Scophioideus luteolus.
- 28722 PEHL. Die bekämpfung von erdfilöhen [Phyllotreta sp.] und rapsglanzkäfern [Meligethes aeneus]. Neue Mitt. f. die Landw. 3: 118. Apr. 21, 1948. 18 N39
- 28723 PETERSON, L. O. T. Some aspects of poplar borer, Saperda calcarata Say, (Cerambycidae) infestations under parkbelt conditions. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 56-61. 1948. 420 On8
- 28724 PEYERIMHOFF, P. DE. Description d'un Laemophloeus [L. bupleri n. sp.] (Col. Cucujidae) algérien commensal de Trieternus grangeri Peyerh. (Scolytidae). Soc. Ent. de France B. 53: 97-99. July 21, 1948. 420 F84B
- 28725 PEYERIMHOFF, P. DE. Notes sur quatre Buprestidae (Coleopt.) du Nord de l'Afrique. Soc. d'Hist. Nat. de l'Afrique du Nord, B. 38(1/9): 72-73. Jan./Dec. 1947. 410.9 S0125  
Polycesta cotti, Anthaxia midas, Chrysobothris dinauxi, Corobus undatus.
- 28726 PIC, M. Nouveaux Hylophilides de la Bolivie. Rev. Franç. d'Ent. 15: 234-235. 1948. 421 R323  
In Hylophilus.
- 28727 POST, R. L., and COLBERG, W. J. Wireworm control [Ctenicera aereipennis destructor]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 24-25. 1948. 423.9 Am32
- 28728 PRELL, H. B. Kampf dem borkenkäfer. Einführung in die kenntnis von lebensweise und bekämpfung des buchdruckers oder grossen fichtenborkenkäfers (Ips typographus L.) Radebeul, Neumann, 1948. 31 p. 427 P91
- 28729 QUINTANILLA, R. El escarabajo del pepino [Diabrotica vittata]. Rev. de Agr. Trop. [Salvador] 14(25): 98. 1947. 8 R326
- 28730 RECLAIRE, A. Is the beetle Spondylis buprestoides L. attracted by paint and turpentine odors. (In Dutch.) Ent. Ber. 12: 251-252. July 1, 1948. 420 N38B
- 28731 REED, L. L. Distribution of the European elm disease in Canada in 1947. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 8-10. 1948. 420 On8  
Hylurgopinus rufipes only known vector in Canada.
- 28732 RITCHER, P. O. Chemical control of white grubs. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 23-24. 1948. 423.9 Am32  
Phyllophaga spp., Cyclocephala spp., Cotinix nitida.
- 28733 RIVALIER, E. Sur quelques Hipparidium de l'Afrique Tropicale Française (Coleoptera Cicindelidae). Rev. Franç. d'Ent. 15: 220-230. 1948. 421 R323  
Includes new species.
- 28734 ROBINSON, M. A new genus of Scarabaeidae [Pseudotrox] (Coleoptera). Notulae Nat. 211, 2 p. July 30, 1948. 500 P53No
- 28735 SATTERTHWAIT, A. F. A supplement to "Key to known pupae of the genus Calendra, with host-plant and distribution notes." Ent. Soc. Amer. Ann. 41: 369-370. Sept. 1948. 420 En82
- 28736 SCHEDL, K. E. On some new Neotropical Scolytidae (Col.). (88th Contribution to the taxonomy and morphology of Scolytoidea). Rev. de Ent. 19: 575-579. Dec. 1948. 421 R326  
New species in Micracis and Xyleborus.
- 28737 SEIXAS, C. A. The practice of chemical control of the coffee borer [Stephanoderes hampei]. (In Portuguese.) São Paulo. Supt. dos Serv. do Café. B. 23: 455-466. (To be cont.) July 1948. 68.29 Sa63
- 28739 SILVER, J. C. Embedding beetles [Coleoptera] in plastic. U. S. Bur. Ent. and Plant Quar. ET-263, 4 p. Nov. 1948. 1.9 En83Et
- 28739 SPITTLE, R. J. The coleopterous fauna of sand-martins' nests. Ent. Monthly Mag. 84: 260. Nov. 1948. 421 En86



- 28740 STAHEL, M., and HOLENSTEIN, R. Der buchenbock [*Cerambyx scopolii*], ein kirschbaumschädling. Schweiz. Z. f. Obst- u. Weinbau 57: 413-416. Nov. 20, 1948. 80 Sch9
- 28741 STEEL, W. O. The British species of *Staphylinus* subgenus *Ocyppus* Steph. (Col., Staphylinidae). Ent. Monthly Mag. 84: 271-275. Dec. 1948. 421 En86
- 28742 STEEL, W. O. Some notes on the nomenclature of the *Xantholinini* and *Othlini* (Col., Staphylinidae). Ent. Monthly Mag. 84: 268-270. Dec. 1948. 421 En86  
Includes new names and combinations in *Pachycorynus*, *Gauropterus*, *Xantholinus*, *Leptacinus*, and *Gyrophypnus*.
- 28743 STRINGER, A. Relation between bioassay systems and the values found for toxicity of D.D.T. Ann. Appl. Biol. 35: 527-531. Dec. 1948. 442.8 An72  
Tests with *Sitophilus granarius*.
- 28744 TAYLOR, T. H. C. Biological control [of *Promecotheca reichelii* in Fiji]. (Abs.) Roy. Ent. Soc. London. Proc. Ser. C: J. Mtgs. 13: 40. 1948. 420 L84Pc
- 28745 TOTTENHAM, C. E. A revision of the British species of *Arphirus* Tottenham (subgenus of *Quedius* Stephens) (Col., Staphylinidae). Ent. Monthly Mag. 84: 241-258. Nov. 1948. Ref. 421 En86
- 28746 VOGT, G. B. *Dermestes* [ater, *D. caninus*] and *Saprinus* [lucens] as predators and pests in fleshfly [*Phaenicia pellescens*] rearing. J. Econ. Ent. 41: 826-827. Ref. Oct. 1948. 421 J822
- 28747 WATKINS, S. G. The distribution of *Molorchus* in California (Coleoptera: *Cerambycidae*). Pan-Pacific Ent. 24: 206. Oct. 1948. 421 P193
- 28748 WATSON, E. B. The European elm bark-beetle [*Scolytus multistriatus*]. Canada. Sci. Serv. Div. Ent. Forest Insect. Invest. Bi-monthly Prog. Rpt. 4(5): 2. Sept./Oct. 1948. 423.92 C16F
- 28749 WEBSTER KAY, R. G. *Phanaeus menelas* (Cast., 1840) not *Phanaeus splendidulus* (F., 1781). (Coleoptera: *Scarabaeidae*: *Coprinae*). Rev. de Ent. 19: 418. Dec. 1948. 421 R326
- 28750 WEST, A. S., and LOTHIAN, T. M. The basswood leaf-miner, *Baliosus ruber* (Weber), (*Chrysomelidae*, *Hispani*), in the Rideau Lakes region. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 62-65. 1948. 420 On8
- 28751 WESTERMARCK, H. Experiments in control of the warble fly [*Hypoderma*] in Finland with regard to similar experiences in Scandinavia and England. (In Finnish.) Finsk Vet. Tidskr. 54: 385-399. Ref. Nov. 1948. 41.8 F49  
Swedish summary.
- 28752 WINTERS, S. R. Monument to the boll weevil [*Anthonomus grandis*]. Hoard's Dairyman 94: 158. Feb. 25, 1949. 44.8 H65
- 28753 YOUNG, F. N., and THAMES, W. H. A preliminary list of the Phyllophaga of Florida (*Scarabaeidae*: *Melolonthinae*). Fla. Ent. 31: 125-130. Ref. Dec. 1948. 420 F662
- DIPTERA
- 28754 ALEXANDER, C. P. New or little-known *Tipulidae* (Diptera). LXXXI. Oriental-Australasian species. Ann. & Mag. Nat. Hist. (ser. 12) 1: 391-417. June 1948, pub. Dec. 31, 1948. 410 An77  
New species in *Habromastix*, *Tipula*, *Limonia*, *Orimarga*, and *Epiphragma*.
- 28755 ALEXANDER, C. P. Notes on the Tropical American species of *Tipulidae* (Diptera). V. The specialized Hexatomini: *Limnophila*, *Shannonomyia*, *Gynoplistia*, *Hexatoma*, *Atarba*, *Elephantomyia*, and allies. Rev. de Ent. 19: 509-556. Dec. 1948. 421 R326  
Includes new species in *Limnophila*, *Shannonomyia*, *Hexatoma*, *Atarba*, and *Elephantomyia*.
- 28756 ANDREWS, H. W. Discrepancy of sex in recorded captures of *Volucella zonaria*, Poda. Ent. Rec. & J. Variation 60: 116. Nov. 1948. 421 En89
- 28757 ATKINS, E. L., JR. Mimicry between the drone-fly, *Eristalis tenax* (L.), and the honeybee, *Apis mellifera* L. Its significance in ancient mythology and present-day thought. Ent. Soc. Amer. Ann. 41: 387-392. Ref. Sept. 1948. 420 En82
- 28758 BAILEY, N. S. Hovering males of *Hybomitra cincta* (Fabricius) (Diptera, *Tabanidae*). Psyche 55: 178-180. Dec. 1948. 421 P95
- 28759 BALDWIN, W. F., and COPPEL, H. C. Observations on the emergence of *Phorocera hamata* A. and W. (*Tachinidae*) from sawfly [*Neodiprion*] cocoons. Canad. Ent. 79: 221-223. Nov./Dec. 1947. 421 C16
- 28760 BARNES, H. F. Gall midges of economic importance. v. 3. Gall midges of fruit. London, Crosby Lockwood, 1948. 184 p. 428 B26
- 28761 BARRETT, W. L., JR., and WELLS, R. W. Transplantation of *Hypoderma* larvae and testing chemicals for control of larvae in experimental hosts. J. Econ. Ent. 41: 779-782. Oct. 1948. 421 J822  
H. lineatum and H. bovis larvae transferred from cattle to goats, rabbits and mice for control tests.
- 28762 BARRETTO, M. P. A new species of *Flebotomus* from the Amazon Valley, and key for the determination of related species (Diptera, *Psychodidae*). (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 8: 239-247. Sept. 13, 1947. 410.9 Sa63  
English summary.
- 28763 BARRETTO, M. P. Studies on Brazilian *Tabanidae*. V-VI. (In Portuguese.) Rev. de Ent. 19: 401-417, 481-488. Dec. 1948. 421 R326  
English summaries.  
V. On the genus *Amphichlorops* Lutz, 1911, with descriptions of four new species. VI. *Anaerythrops* n. g.
- 28764 BATEMAN, A. J. Intra-sexual selection in *Drosophila*. Heredity 2: 349-368. Ref. Dec. 1948. 443 H42
- 28765 BRELAND, O. P., and SCHMITT, L. H. The biology of two sunflower gall makers (Diptera: *Cecidomyiidae*; *Lepidoptera*: *Lyoniidae*). Ent. News [Philadelphia] 59: 225-234. Nov. 1948. 421 En88  
*Trishormomyia helianthi* and *Bucculatrix fuscicola*.
- 28766 BRINI, L. The fruit fly (*Ceratitis capitata*). (In Italian.) Romagna Agr. e Zootec. 33(3): 1. Mar. 1948. 16 R66
- 28767 BRUCE, W. N. Fly control and milk flow. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 45-48. 1948. 423.9 Am32
- 28768 BUTCHER, F. G. Destroy those grubs [*Hypoderma*]. Farmer [St. Paul], Gen. Ed. 67: 10. Jan. 1, 1949. 6 F2211  
Cattle grub control.
- 28769 CARRERA, M., and ANDRETTA, M. A. V. D'. Description of a new genus of *Mydidae* [*Paramydas*] from Chile and redescription of the genus *Megascelus* (*Apioceratidae*) (Diptera). (In Portuguese.) Rev. de Ent. 19: 489-497. Ref. Dec. 1948. 421 R326  
English summary.
- 28770 CARRERA, M. New genus and new species [*Macahyba nordestina*] of *Asilidae* (Diptera) from north-east Brazil. (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 8: 203-208. Aug. 23, 1947. 410.9 Sa63  
English summary.
- 28771 CARRERA, M. On the genus *Lycomyia* Bigot, 1857 (Diptera, *Asilidae*). (In Portuguese.) Rev. de Ent. 19: 423-428. Ref. Dec. 1948. 421 R326  
English summary.
- 28772 CARRERA, M. Second discussion of some *Asilidae* (Diptera) and their prey, with a preliminary description of two new species. (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 8: 265-271. Sept. 22, 1947. 410.9 Sa63  
New species in *Diogmites* and *Phonicocleptes*.
- 28773 CAVALCANTI, A. G. L. Geographic variation of chromosome structure in *Drosophila prosaltans*. Genetics 33: 529-536. Ref. Nov. 1948. 442.8 G28
- 28774 CHROSTOWSKI, T. *Simuliidae*; *Danubiosimulium maculatum*. (In Polish.) Med. Wet. 4(11): 706-709. Nov. 1948. 41.8 M463  
English summary.  
As vector of animal disease in Poland.
- 28775 COLLADO, J. G. El melófago [*Melophagus ovinus*] o falso piojo de las ovejas. Agricultura [Madrid] 17: 450-453. Oct. 1948. 15 Ag84
- 28776 COLLIN, J. E. On the classification of the genera allied to *Musca* L. (Diptera). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 125-127. Oct. 15, 1948. 420 L84Pb
- 28777 CORKINS, J. P. Control cattle grubs [*Hypoderma bovis*] by spraying. West. Livestock Rptr. 9(25): 30. Feb. 9, 1949. 286.85 W523
- 28778 DAKSHINAMURTY, S. The common house-fly, *Musca domestica*, L., and its behaviour to temperature and humidity. B. Ent. Res. 39: 339-357. Ref. Dec. 1948. 421 B87
- 28779 DEMICHELIS, L. A. Miasis de la piel de los animales (gusaneras o bicheras). Rev. Mens. Ilus. B. A. P. 32(374): 22-23. Jan. 1949. 9 R326  
Control of *Callitroga macellaria*, *Sarcophaga* sp. and *Musca domestica*.



- 28780 DEORAS, P. J. Breeding of *Musca nebulosa* F. for biological tests of insecticides. *Cur. Sci.* 17: 301. Oct. 1948. 475 Sci23
- 28781 DOBZHANSKY, T., and LEVENE, H. Genetics of natural populations. XVII. Proof of operation of natural selection in wild populations of *Drosophila pseudoobscura*. *Genetics* 33: 537-547. Nov. 1948. 442.8 G28
- 28782 DOBZHANSKY, T. Genetics of natural populations. XVIII. Experiments on chromosomes of *Drosophila pseudoobscura* from different geographic regions. *Genetics* 33: 588-602. Nov. 1948. 442.8 G28
- 28783 DOYLE, W. L. Phosphatase activity of *Drosophila* salivary glands. *Quart. J. Micros. Sci.* 89: 415-419. Ref. Dec. 1948. 440.8 Q2
- 28784 EADS, R. B., and MENZIES, G. C. Additional records of bat parasites of the family Nycteribiidae. *Ent. News [Philadelphia]* 59: 244. Nov. 1948. 421 En88  
Basilina antrozoi and B. corynorhini.
- 28785 FÁBIÁN, G., and MATOLTSY, A. G. The effect of 3-4 benzpyrene in respect to the non-disjunction frequency in *Drosophila melanogaster*. *Arch. Biol. Hungar.* (Ser. 2) 17: 171-178. 1947. 442.9 M27
- 28786 FÁBIÁN, G. Effects of colchicine injected in female *Drosophila*. *Arch. Biol. Hungar.* (Ser. 2) 17: 157-162. 1947. 442.9 M27
- 28787 FAY, R. W., BUCKNER, A. J., and SIMMONS, S. W. Laboratory evaluation of DDT residual effectiveness against house flies, *Musca domestica*. *Amer. J. Trop. Med.* 28: 877-887. Nov. 1948. 448.8 Am33
- 28788 FIELDS, L. F. Control cattle grubs [Hypoderma]. *Cattleman* 35(8): 88, 90, 92. Jan. 1949. 49 C29
- 28789 FURMAN, D. P., and DOUGLASS, J. R. Comparative evaluations of insecticides for cattle grub [Hypoderma] control. *J. Econ. Ent.* 41: 783-787. Oct. 1948. 421 J822  
Rotenone-sulfur spray most effective.
- 28790 GLENDENNING, R., and FULTON, H. G. Experiments in control of the carrot rust fly (*Psila rosae* L.). *Sci. Agr.* 28: 545-553. Dec. 1948. 7 Sci2
- 28791 GREENWOOD, D. E., and HOFMASTER, R. N. Resistance of house flies to insecticides. *Veg. Growers News* 3(7): 2-3. Jan. 1, 1949. 275.28 V52
- 28792 GRENSTED, L. W. A note on the family name Trichoceridae. *Ent. Monthly Mag.* 84: 280-281. Dec. 1948. 421 En86
- 28793 HAFEZ, M. Ecological and biological observations on some coprophagous Sepsidae (Diptera). *Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent.* 23: 99-104. Ref. Dec. 28, 1948. 420 L84Pa
- 28794 HAFEZ, M. A simple method for breeding the house-fly, *Musca domestica* L., in the laboratory. *B. Ent. Res.* 39: 385-386. Ref. Dec. 1948. 421 B87
- 28795 HANSENS, E. J., SCHMITT, J. B., and BARBER, G. W. Resistance of house flies [*Musca domestica*] to residual applications of DDT in New Jersey. *J. Econ. Ent.* 41: 802-803. Oct. 1948. 421 J822
- 28796 HARDY, D. E. New and little known Diptera from the California Academy of Sciences collection (Rhagionidae and Dorilidae). *Wasmann Collect.* 7: 129-137. Dec. 1948. 442.8 W28  
New species in Dialysis and Dorilas.
- 28797 HARDY, D. E. New and little known Neotropical Dorilidae (Pipunculidae—Diptera). *Kans. Ent. Soc. J.* 21: 124-133. Oct. 1948. 420 K13  
Includes new spp. in Dorilas.
- 28798 HARMSTON, F. C. Dipterous predators of the mosquito in Utah and Wyoming. *Great Basin Nat.* 9(1/2): 21-23. Dec. 30, 1948. 410 G79  
*Ochthera mantis*, *Hydrophorus gratosus*, *Thinophilus spinipes*, *Tachytrechus granditarsis*, and *Dolichopus nigricauda*.
- 28799 HARVEY, J. M. The ecology of an Ittonid fly [*Clinodiplosis pucciniae*] associated with a rust [*Puccinia evadens*] on *Baccharis pilularis* consanguinea. *Pan-Pacific Ent.* 24: 194-200. Oct. 1948. 421 P193
- 28800 HSU, W. S. The Golgi material and mitochondria in the salivary glands of the larva of *Drosophila melanogaster*. *Quart. J. Micros. Sci.* 89: 401-414. Ref. Dec. 1948. 440.8 Q2
- 28801 HULL, F. M. The genus *Baccha* from the New World. *Ent. Amer.* 27: 89-291. July/Oct. 1947, pub. Feb. 4, 1949. 420 B792  
Includes new species; new genera *Orphnabaccha*, *Leucopodella*, and *Xestoprosopa*; and new subgenera *Aulacibaccha* and *Dioprosopa* in *Baccha*.
- 28802 IMES, M. The sheep tick [*Melophagus ovinus*] and its eradication by dipping. U. S. D. A. Farmers' B. 798, slightly rev., 23 p. July 1948. 1 Ag84F
- 28803 ITO, S. Eine neue Rhacochlaena-art aus Japan (Diptera, Trypetidae). *Mushi* 18: 35-38. Sept. 25, 1947. 421 M97
- 28804 ITO, S. Two undescribed species of the tipulid genus *Elephantomyia* from Japan (Diptera). *Mushi* 18: 89-92. Feb. 10, 1948. 421 M97
- 28805 ITO, S. Zwei für die fauna von Insel Kyushu neue Tipuliden (Diptera). *Mushi* 18: 93. Feb. 10, 1948. 421 M97  
*Pedicia gifuensis*; *Tricyphona grandior*.
- 28806 JACKSON, C. H. N. Some further isolated generations of tsetse flies [Glossina]. *B. Ent. Res.* 39: 441-451. Dec. 1948. 421 B87
- 28807 JENKINS, D. W. Ecological observations on the blackflies [Simuliidae] and punkies [Ceratopogonidae] of central Alaska. *Mosquito News* 8: 148-154. Dec. 1948. 421 M85
- 28808 KEISTER, M. L. The morphogenesis of the tracheal system of *Sciara*. *J. Morph.* 83: 373-423. Ref. Nov. 1948. 444.8 J826
- 28809 KESSEL, E. L. New species of *Callomyia* from California (Diptera: Clythiidae). *Wasmann Collect.* 7: 139-148. Dec. 1948. 442.8 W28
- 28810 LACEY, J. J. Spray or dust this fall. *Wool News* 14(2): 7. Sept. 1948. 280.28 W882  
For control of *Melophagus ovinus*.
- 28811 LACEY, J. J. Treat for ticks this fall. *Wool News* 14(3): 7. Oct. 1948. 280.28 W882  
*Melophagus ovinus*.
- 28812 LANE, J. Ceroplatinae of the Neotropical Region. (Diptera, Mycetophilidae). (In Portuguese.) *Rev. de Ent.* 19: 437-458. Dec. 1948. 421 R326  
English summary.  
Includes new species in *Ceroplatus*, *Heteropterna*, and *Platyura*.
- 28813 LANE, J., and FORATTINI, O. P. Two new species of *Bibionellus* Edwards, 1935 (Diptera, Bibionidae). (In Portuguese.) *Rev. de Ent.* 19: 569-574. Dec. 1948. 421 R326  
English summary.
- 28814 LAURENCE, B. R. Observations on *Microphorus crassipes* Macquart (Dipt., Empididae). *Ent. Monthly Mag.* 84: 282-283. Dec. 1948. 421 En86
- 28815 LECLERCQ, J., and LECLERCQ, M. Données bionomiques pour *Calliphora erythrocephala* (Meigen) et cas d'application à la médecine légale. *Soc. Ent. de France B.* 53: 101-103. July 21, 1948. 420 F84B
- 28816 LEMAISTRE, J. La lutte biologique contre la mouche des fruits (*Ceratitis capitata* Wied.) aux îles Hawaï et au Brésil; moyens employés en Argentine. *Fruits d'Outre Mer* 3: 369-374. Ref. Nov. 1948. 80 F9492
- 28817 LEWIS, D. J. The Simuliidae of the Anglo-Egyptian Sudan. *Roy. Ent. Soc. London, Trans.* 99: 475-496. Ref. Dec. 15, 1948. 420 L84
- 28818 L'HÉRITIER, P. Sensitivity to CO<sub>2</sub> in *Drosophila*. A review. *Heredity* 2: 325-348. Ref. Dec. 1948. 443 H42
- 28819 LOWE, C. D. The heel fly [*Hypoderma*] is a hoodlum. *South. Agr.* 77(12): 36. Dec. 1948. 6 So83
- 28820 MATOLTSY, A. G., and FÁBIÁN, G. Measurement of the photodynamic effect of cancerogenic substances on biological indicators (*Drosophila*). *Arch. Biol. Hungar.* (Ser. 2) 17: 165-170. Ref. 1947. 442.9 M27
- 28821 MELCHIORI, E. Practical demonstrations against flies. (In Italian.) *Agr. Trentina* 3(22): 2. Nov. 15, 1948. 16 Ag8263
- 28822 MELNICK, J. L. Isolation of poliomyelitis virus from single species of flies collected during an urban epidemic. *Amer. J. Hyg.* 49(1): 8-16. Ref. Jan. 1949. 449.8 Am3  
Virus found in *Phormia regina*, *Phaenicia sericata*, *Musca domestica*, *Sarcophaga* spp., and *Cynomyopsis cadaverina*.
- 28823 MOGGRIDGE, J. Y. Night activity of tsetse (Glossina) on the Kenya coast. *Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent.* 23: 87-92. Dec. 28, 1948. 420 L84Pa
- 28824 MUNRO, H. K. New African Dacinae (Trypetidae, Dipt.) with some preliminary statistical studies. *Ent. Soc. South. Africa J.* 11: 13-33. Sept. 30, 1948. 420 En86  
Includes new species and forms in *Dacus*.



- 28825 NATAL SOCIETY FOR THE PRESERVATION OF WILD LIFE AND NATURAL RESORTS. Tsetse [Glossina spp.] and nagana; slaughtering or preserving game in Zululand. Durban, 1947. 12 p. 428 N19  
Contents: A new approach to the tsetse problem in Zululand, by A. W. Bayer. Tsetse research and reclamation in Tanganyika and in Zululand, by S. F. Bush.
- 28826 NAYAR, K. K. Descriptions of plant galls from Travancore. Bombay Nat. Hist. Soc. J. 47: 668-675. Ref. Aug. 1948. 513 B63  
Galls caused by Itonididae.
- 28827 NETTEL F., R. Contribución al estudio de las condiciones naturales de las zonas de oncocercosis en Chiapas. Medicina; Rev. Mex. 29: 21-32. Ref. Jan. 25, 1949. 448.8 M4693  
English summary.  
Transmission by Simuliidae.
- 28828 O'CONNELL, J. J. Report on the area program for grub [Hypoderma] control. Dak. Farmer 69 (2): 1, 14. Jan. 15, 1949. 6 D14
- 28829 O'DONOGHUE, J. G. Report of flesh flies in mink in Alberta. Canad. J. Compar. Med. 13(1): 3-6. Jan. 1949. 41.8 C162  
Wohlfahrtia and Sarcophaga spp.
- 28830 OGAKI, M. Study of salivary gland chromosome with recording microphotometer. J. Hered. 39: 338. Nov. 1948. 442.8 Am8  
Drosophila virilis.
- 28831 OKA, H., and ASAHINA, S. Pterobosca from Japan and her adjacent territories (Diptera, Ceratopogonidae). Mushi 18: 107-113. Ref. Aug. 30, 1948. 421 M97
- 28832 OLDROYD, H. Some Indian species of the genus Stichopogon (Diptera, Asilidae). Ent. Monthly Mag. 84: 261-263. Nov. 1948. 421 En86  
Includes new species.
- 28833 OLDROYD, H. A wingless empid (Diptera) from Tasmania. Ent. Monthly Mag. 84: 278-279. Dec. 1948. 421 En86  
Apterodromia evansi n. g., n. sp.
- 28834 PARMENTER, L. The humming of Rhingia campestris, Mg. Ent. Rec. & J. Variation 60: 124. Dec. 1948. 421 En89
- 28835 PARMENTER, L. Opomyza petrei, Mesnil (Dipt., Opomyzidae) in Surrey and Sussex. Ent. Rec. & J. Variation 60: 125. Dec. 1948. 421 En89
- 28836 PARMENTER, L. Rhingia campestris, Mg. (Dipt., Syrphidae)—a further note. Ent. Rec. & J. Variation 60: 119-120. Dec. 1948. 421 En89
- 28837 PARROT, L. Notes sur les phlébotomes [Flebotomus]. LIX. Phlébotomes du Soudan Anglo-Egyptien. 2. Inst. Pasteur d'Algérie, Arch. 26: 259-276. Ref. 1948. 448.3 In7A
- 28838 PETERS, J. A. The box turtle as a host for dipterous parasites. Amer. Midland Nat. 40: 472-474. Ref. Sept. 1948. 410 M58  
Sarcophaga cistudinis (?).
- 28839 PIRES, A. El gusano del cuajo del caballo o gastrofilosis equina. Res 15: 21193-21194. Sept. 5, 1947. 286.85 R31
- 28840 RICKARD, M., ALLAN, W. C., and GOBLE, H. W. Notes on horn flies [Siphona irritans] in Ontario, 1947. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 66-67. 1948. 420 On8
- 28841 SCHARFF, D. Effective grub [Hypoderma] control depends on proper timing and application. Mont. Farmer-Stockman 36(11): 40. Feb. 1, 1949. 6 M764
- 28842 SCHULTZ, J., and CASPERSSON, T. Nucleic acids in Drosophila eggs, and Y-chromosome effects. Nature [London] 163: 66-67. Jan. 8, 1949. 472 N21
- 28843 SCHWETZ, J. Sur les Glossines du Congo Belge, leur répartition et les moyens préconisés pour lutter contre elles. B. Agr. du Congo Belge 39: 893-910. Dec. 1948. 24 K83
- 28844 SEEDORF, W., and TÜLLMANN. Die fritfliege, ein zu wenig beachteter schädling. Neue Mitt. f. die Landw. 3: 470. Dec. 15, 1948. 18 N39  
Ocinella frit.
- 28845 SENGÜN, A., and KOSSWIG, C. Weiteres über den bau der riesenchromosomen in verschiedenen gewebe von Chironomus-larven [i.e. Tendipes]. Chromosoma 3: 195-207. Ref. 1948. 442.8 C46
- 28846 SEVERIN, H. C. Survey methods and results in connection with cattle grubs [Hypoderma spp.]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 52-55. 1948. 423.9 Am32
- 28847 SEVERINGHAUS, C. W. Occurrence of a botfly larva [Cuterebra sp.] in white-tailed deer. J. Mammal. 30: 75. Feb. 1949. 410 J823
- 28848 SMITH, W. W. Fly control in a small city by use of DDT-oil mist. J. Econ. Ent. 41: 828-829. Oct. 1948. 421 J822
- 28849 SMITH, W. W. Reductions of fly indices in the business district of a small city by use of DDT residual sprays. J. Econ. Ent. 41: 829-830. Oct. 1948. 421 J822
- 28850 STALKER, H. D., and CARSON, H. L. An altitudinal transect of Drosophila robusta Sturtevant. Evolution 2: 295-305. Dec. 1948. 443.8 Ev62
- 28851 STEEL, W. O. House-flies [Musca domestica] as enemies of locusts [Locusta migratoria] in captivity. Ent. Monthly Mag. 84: 259. Nov. 1948. 421 En86
- 28852 STONE, A. Simulium virgatum Coquillett and a new related species [S. solaris] (Diptera: Simuliidae). Wash. Acad. Sci. J. 38: 399-404. Dec. 15, 1948. 500 W276J
- 28853 SWISHER, E. M. Possibilities in repellents and ovicides in controlling cattle grubs [Hypoderma]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 55-58. 1948. 423.9 Am32
- 28854 TAKAHASHI, H. Simuliidae of Shansi, China. (In Japanese.) Mushi 18: 65-66. Feb. 10, 1948. 421 M97
- 28855 THOMSEN, E. White-eyed mutants in Calliphora erythrocephala, Meig. Nature [London] 163: 107. Jan. 15, 1949. 472 N21
- 28856 TWINN, C. R., and others. A preliminary account of the biting flies at Churchill, Manitoba. Canad. J. Res. Sect. D, Zool. Sci. 26: 334-357. Ref. Dec. 1948. 470 C16D  
B. Hocking, W. C. McDuffie, and H. F. Cross, joint authors.  
Culicidae, Simuliidae, and Tabanidae.
- 28857 VERGANI, A. R. Las moscas de las frutas. Campo y Suelo Argentino 32(386): 48-49. Dec. 1948. 9 C15  
Tephritidae.
- 28858 WIGGLESWORTH, V. B. La moscarda y el ganado lanar. Rev. Ganad. [Habana] 8(12): 5. Dec. 1948. 49 R321  
Phaenicia sericata?
- 28859 WILCOX, J. The genus Itolia Wilcox (Diptera: Asilidae). Pan-Pacific Ent. 24: 191-193. Oct. 1948. 421 P193  
Includes new species.
- 28860 ZANETTI, A. Bovine hypodermiasis: an industrial problem. (In Italian.) Clin. Vet. [Milan] 71: 288-306. Ref. Sept. 1948. 41.8 C61  
Damage caused by Hypoderma bovis, and control of the fly.

## Culicidae

- 28861 AITKEN, T. H. G. Recovery of anopheline eggs from natural habitats, an aid to rapid survey work. Ent. Soc. Amer. Ann. 41: 327-329. Sept. 1948. 420 En82
- 28862 ALVARADO, C. A. Control de las enfermedades transmitidas por mosquitos. Ofic. Sanit. Panamer. B. 27: 1105-1112. Dec. 1948. 449.9 P192B  
English summary.
- 28863 BICK, G. H. Resistance of Culex quinquefasciatus Say larvae and pupae to experimental drought. Ent. Soc. Amer. Ann. 41: 360-368. Ref. Sept. 1948. 420 En82
- 28864 BOHART, R. M. A comparison of DDT and dichlorodiphenyl dichloroethane as larvicides for Aedes mosquitoes. J. Econ. Ent. 41: 834-835. Oct. 1948. 421 J822
- 28865 BOHART, R. M. Differentiation of larvae and pupae of Aedes dorsalis and Aedes squamiger (Diptera, Culicidae). Ent. Soc. Wash. Proc. 50: 216-218. Nov. 1948. 420 W27
- 28866 BOHART, R. M. The subgenus Neoculex in America north of Mexico (Diptera, Culicidae). Ent. Soc. Amer. Ann. 41: 330-345. Ref. Sept. 1948. 420 En82  
Includes new species.
- 28867 BRELAND, O. P. Some bicolored mosquito larvae. Kans. Ent. Soc. J. 21: 120-121. Oct. 1948. 420 K13  
Aedes bimaculatus and A. tormentor.
- 28868 BROWN, W. L., JR. Results of the Pennsylvania mosquito survey for 1947. N. Y. Ent. Soc. J. 56: 219-232. Dec. 1948. 420 N48J



- 28869 CARTER, H. F., and WIJESUNDARA, D. P. Notes on some Ceylon culicine mosquitoes. Ceylon J. Sci. Sect. B. Zool. 23: 135-151. Ref. Oct. 12, 1948. 410 C33  
Includes n. spp. in *Aedes* and *Culex*.
- 28870 DAVIDSON, G. "Gammexane" and mosquito control in the Belgian Congo. Brit. Med. J. 4593: 101-102. Jan. 15, 1949. 448.8 B77
- 28871 ENTE REGIONALE PER LA LOTTA ANTI-ANOFELICA IN SARDEGNA. Istruzioni per il capo distretto e vice capo distretto antilarvale [Instructions on larva-control for the district chief and vice-chief]. Cagliari, Valdès, 1947. 12 p. 428 En81
- 28872 FARID, M. A. Relationships between certain populations of *Culex pipiens* Linnaeus and *Culex quinquefasciatus* Say in the United States. Amer. J. Hyg. 49(1): 83-100. Jan. 1949. 449.8 Am3
- 28873 FLUITER, H. J. DE. Malaria and malaria carriers in the prisoner of war camps at Chungkai and Tamuang (W. Thailand). (In Dutch.) Ent. Ber. 12: 270-275. Sept. 1, 1948. 420 N38B  
English summary.  
*Anopheles barbirostris*, *A. minimus*, and *A. culicifacies* were vectors.
- 28874 GEBERT, S. Notes on certain aspects of the action of DDT residual sprays, and on the partial treatment of dwellings as a means of anti-anopheline protection. Roy. Soc. Trop. Med. and Hyg. Trans. 42: 295-297. Nov. 1948. 448.9 R813
- 28875 GOLBERG, L., and MEILLON, B. DE. The nutrition of the larva of *Aedes aegypti* Linnaeus. 3-4. Biochem. J. 43: 372-387. Ref. 1948. 382 B52
- 28876 HOCKING, K. S., and MACINNES, D. G. Notes on the bionomics of *Anopheles gambiae* and *A. funestus* in East Africa. B. Ent. Res. 39: 453-465. Ref. Dec. 1948. 421 B87
- 28877 JACHOWSKI, L. A., JR., and SCHULTZ, C. Notes on the biology and control of mosquitoes at Umiat, Alaska. Mosquito News 8: 155-165. Dec. 1948. 421 M85
- 28878 JENKINS, D. W. Ecological observations on the mosquitoes of central Alaska. Mosquito News 8: 140-147. Dec. 1948. 421 M85
- 28879 KNIGHT, K. L., and HURLBUT, H. S. The mosquitoes of Ponape Island, eastern Carolines. Wash. Acad. Sci. J. 39: 20-34. Ref. Jan. 15, 1949. 500 W276J  
Includes new species and forms in *Aedes* and *Culex*.
- 28880 KOMP, W. H. W., and BATES, M. Notes on two mosquito gynandromorphs from Colombia (Diptera, Culicidae). Ent. Soc. Wash. Proc. 50: 204-206. Nov. 1948. 420 W27  
*Culex coronator*; *Haemagogus spegazzinii* falco.
- 28881 KUYP, E. VAN DER. Mosquito records of Aruba and Bonaire. Amer. J. Trop. Med. 28: 895-897. Nov. 1948. 448.8 Am33
- 28882 LICHTENSTEIN, E. P. Growth of *Culex molestus* under sterile conditions. Nature [London] 162: 999-1000. Dec. 25, 1948. 472 N21
- 28883 LINDUSKA, J. P., and MORTON, F. A. Tests of the permeability of fabrics to biting by mosquitoes. J. Econ. Ent. 41: 788-794. Oct. 1948. 421 J822  
Tests with *Aedes aegypti* and *Anopheles quadrimaculatus*.
- 28884 MASTERS, C. O. Some notes on the identification of *Anopheles philippinensis* and *A. pallidus* (Diptera, Culicidae). Ent. Soc. Wash. Proc. 50: 178. Oct. 1948. 420 W27
- 28885 MISSIROLI, A., MOSNA, E., and ALLESSANDRINI, M. Anopheline control in the Agro Pontino. Report for the years 1945 to 1947. (In Italian.) Ist. Super. di Sanit. Rend. 11: 759-790. 1948. 449.9 R66  
French, English, and German summaries.
- 28886 MUIRHEAD-THOMSON, R. C. D.D.T. and "Gammexane" as residual insecticides against *Anopheles gambiae* in African houses. Nature [London] 163: 109-110. Jan. 15, 1949. 472 N21
- 28887 MULHERN, T. D., and HART, J. T., JR. A low cost, light weight excavator for digging or cleaning mosquito control ditches. Mosquito News 8: 137-139. Dec. 1948. 421 M85
- 28888 MULHERN, T. D. New Jersey and New York mosquito control executives witness demonstration of "jeep-a-trench" excavator. Mosquito News 8: 166-167. Dec. 1948. 421 M85
- 28889 NOÉ, J., and MANN F., G. Disminución invernal del anofelismo en Tarapacá. Biológica 5: 3-14. Dec. 1946, pub. 1948. 442.8 B5222  
English summary.  
*Anopheles pseudopunctipennis*.
- 28890 PAOLIELLO, A. Control of yellow fever and of other diseases transmitted by mosquitoes. (In Portuguese.) Ofic. Sanit. Panamer. B. 27: 1005-1033. Ref. Nov. 1948. 449.9 P192B  
English summary.  
Includes malaria and filariasis.
- 28891 PARKER, A. H. Stimuli involved in the attraction of *Aedes aegypti*, L., to man. B. Ent. Res. 39: 387-397. Dec. 1948. 421 B87
- 28892 PENN, G. H. The pupae of the mosquitoes of New Guinea. Pacific Sci. 3: 3-85. Ref. Jan. 1949. 475 P11
- 28893 REES, D. M., and HARMSTON, F. C. Mosquito records from Wyoming and Yellowstone National Park (Diptera: Culicidae). Pan-Pacific Ent. 24: 181-188. Oct. 1948. 421 P193
- 28894 ROBINSON, G. G. Mosquitoes caught in Northern Rhodesia at Balovale and Livingstone. Ent. Soc. South. Africa J. 11: 63-67. Sept. 30, 1948. 420 En86
- 28895 RODRÍGUEZ PIÑERO, J. M. Paludismo. Siembra 1948(11): 15-17. Nov. 1948. 15 S11  
Includes *Anopheles* as transmitter.
- 28896 ROSSELL, C. S. C. New chromogenic cultures of acid-fast bacilli isolated from mosquitoes (Culicini), captured on lepers. Note II. (In Portuguese.) Inst. Oswaldo Cruz Mem. 45: 793-812. 1947. 448.9 In74  
English summary.
- 28897 ROTH, L. M. Mosquito gynandromorphs. Mosquito News 8: 168-174. Ref. Dec. 1948. 421 M85
- 28898 ROTH, L. M. A study of mosquito behavior. An experimental laboratory study of the sexual behavior of *Aedes aegypti* (Linnaeus). Amer. Midland Nat. 40: 265-352. Ref. Sept. 1948. 410 M58
- 28899 SENEVET, G. *Anopheles pessoai* en Guyane Française; description de la nymphe. Inst. Pasteur d'Algérie, Arch. 26: 280-287. 1948. 448.3 In7A
- 28900 SENEVET, G. A propos de *Anopheles* (Nyssorhynchus) *inini* Senevet et Abonnenc, 1938. Inst. Pasteur d'Algérie, Arch. 26: 277-279. 1948. 448.3 In7A
- 28901 SEVERO, O. P. Contribución al control del *Aedes* (*Stegomyia*) *aegypti*, con mira a su erradicación continental. Ofic. Sanit. Panamer. B. 27: 1045-1062. Nov. 1948. 449.9 P192B  
English summary.
- 28902 SHORTT, H. E. The life cycle of *Plasmodium cynomolgi* in its insect [*Anopheles*] and mammalian hosts. Roy. Soc. Trop. Med. and Hyg. Trans. 42: 227-230. Nov. 1948. 448.9 R813
- 28903 SOPER, F. L. The pioneer international health organization. Record 4(5): 39-44. May 1948. 150 R24  
Discusses control of *Aedes aegypti* by the Pan American Sanitary Bureau.
- 28904 SOUTHERN ENTOMOLOGICAL COMPANY. Mosquito larvaciding with DDT capsules. West Palm Beach, Fla., 1948. 4 p. 428 S83M  
Tests with tossits.
- 28905 STAGE, H. H. Bibliography; references to literature of interest to mosquito control workers and malariologists. Mosquito News 8: 204-210. Dec. 1948. 421 M85
- 28906 STAGE, H. H. Mosquito control tests from the Arctic to the Tropics. Smiths. Inst. Ann. Rpt. 1947: 349-365. Ref. 1948. 500 Sm6R
- 28907 STEYN, J. J. The effect of cultivation of swamps on the anopheline fauna in Kigezi district, Uganda. Ent. Soc. South. Africa J. 11: 76-82. Sept. 30, 1948. 420 En86
- 28908 U. S. PUBLIC HEALTH SERV. Malaria control on impounded water. Washington, 1947. 422 p. 151.66 M29  
U. S. Tennessee Valley Authority, Health and Safety Department, joint author.
- 28909 VAN SOMEREN, E. C. C. Ethiopian Culicidae: some new mosquitoes from Uganda. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 128-132. Oct. 15, 1948. 420 L84Pb  
New spp. in *Megarhinus*, *Uranotaenia*, and *Ficalbia*.
- 28910 VARGAS, L., and DOWNS, W. G. Dos especies de *Wyeomyia* nuevas para México [*W. pseudopecten*; *W. scotinomus*] Descripción de la pupa de *Wyeomyia* (*Dendromyia*) *pseudopecten*. Mex. Inst. de Salubridad y Enferm. Trop. Rev. 9: 95-97. June 1948. 449.9 M572  
English summary.



28911 VARGAS, L. Nota sobre el mecanismo larvical de DDD. Mex. Inst. de Salubridad y Enferm. Trop. Rev. 9: 145-151. June 1948. 449.9 M572

English summary.

Tests with *Culex quinquefasciatus*, *C. tarsalis*, and *Anopheles aztecus*.

28912 VARGAS, L. Nota sobre la antigua presencia de *Anopheles (Nyssorhynchus) albimanus* Wiedemann, 1821 en Brasil. Mex. Inst. de Salubridad y Enferm. Trop. Rev. 9: 153-159. June 1948. 449.9 M572

English summary.

#### HEMIPTERA (HETEROPTERA AND HOMOPTERA)

28913 AFZAL, M., and GHANI, M. A. Studies on the cotton jassid (*Empoasca devastans* Distant) in the western Punjab. XIII. Method of cotton breeding for jassid resistance. N. Y. Ent. Soc. J. 56: 209-218. Dec. 1948. 420 N48J

28914 ANSCOMBE, F. J. On estimating the population of aphids in a potato field. Ann. Appl. Biol. 35: 567-571. Dec. 1948. 442.8 An72

28915 AUBANEL, G. Remarques sur la biologie de la cochenille ronde du poirier (*Diaspis leperii* Sign.) au cours de l'année 1947. Prog. Agr. et Vitic. 1948: 309-311. Dec. 5/12, 1948. 14 P94

28916 BARBER, H. G. Some new Lygaeidae chiefly from the United States (Hemiptera: Heteroptera). Pan-Pacific Ent. 24: 201-206. Oct. 1948. 421 P193

In *Zeropamera* n. g., *Ozophora*, *Tempyra*, *Valesuris* n. g., and *Geocoris*.

28917 BEAMENT, J. W. L. The penetration of the insect egg-shells. I. Penetration of the chorion of *Rhodnius prolixus*, Stål. B. Ent. Res. 39: 359-383. Ref. Dec. 1948. 421 B87

Tests with ovicides.

28918 BEAMER, R. H. Some new species of Delphacodes (Homoptera, Fulgoridae, Delphacinae). V. Kans. Ent. Soc. J. 21: 111-118. Oct. 1948. 420 K13

28919 BONNEMAISON, L. Détermination du stade auquel se produit le déclenchement de la diapause chez un hémiptère: *Eurydema ornatum* L. Paris. Acad. des Sci. Compt. Rend. 227: 1052-1054. Nov. 15, 1948. 505 P21

28920 BONNEMAISON, L. Influence des prédateurs et des parasites sur l'apparition des formes ailées de *Brevicoryne brassicae* L. (Hem. Aphididae). Paris. Acad. des Sci. Compt. Rend. 227: 1415-1417. Dec. 20, 1948. 505 P21

28921 BORKHSENIUS, N. S. Notes on *Pseudococcus comstocki* (Kuw.) and some allied species (Homoptera: Coccoidea), with descriptions of three new species. B. Ent. Res. 39: 417-421. Dec. 1948. 421 B87

28922 BOUDREAUX, H. B. New species of Louisiana Aphididae, and notes on *Sanbornia juniperi* Pergande. Fla. Ent. 31: 95, 97-105. Dec. 1948. 420 F662

New species in *Cinara*, *Macrosiphum*, and *Georgiaphis*.

28923 BOYCE, H. R. Parasites of the Comstock mealybug [*Pseudococcus comstocki*] in Ontario. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 68-70. 1948. 420 On8

*Allotropia convexifrons*, *A. burrelli*, *Pseudaphycus malinus*, *Clausenia purpurea*.

28924 BRIMBLECOMBE, A. R. Fruit-spotting bug [*Amolpelta lutescens*] as a pest of the Macadamia or Queensland nut. Queensland Agr. J. 67: 206-211. Oct. 1948. 23 Q33

28925 BROADBENT, L. Aphis migration and the efficiency of the trapping method. Ann. Appl. Biol. 35: 379-394. Ref. Sept. 1948. 442.8 An72

Tests with *Myzus persicae* on potatoes.

28926 BROADBENT, L. Methods of recording aphid [*Myzus persicae*] populations for use in research on potato virus diseases. Ann. Appl. Biol. 35: 551-566. Dec. 1948. 442.8 An72

28927 BROWN, E. S. *Poissonia longifemorata*, a new genus and species of giant water-bug (Hemiptera, Belostomatidae), and a new variety in the allied genus *Hydrotyrius* Spinola. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 109-114. Oct. 15, 1948. 420 L84Pb

28928 CALLAN, E. M. The Pentatomidae, Cydnidae and Scutelleridae of Trinidad, B. W. I. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 115-124. Oct. 15, 1948. 420 L84Pb

28929 CARLONE, R. The control of plant lice on fruit. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 182-183. Oct. 15, 1948. 16 C72

28930 CARVALHO, J. C. M. Neotropical Miridae. XXVII-XXVIII. (In Portuguese.) Brazil. Mus. Nac. B. Nov. Sér. Zool. 77, 23 p.; 83, 9 p.; 85, 12 p. Apr. 30, Sept. 27, 1947, June 10, 1948. 516 R47Bz

English summaries.

XXVII. The genera *Porpomiris* Berg, *Lampethusa* Distant, *Cyrtopeltis* Fieber and *Dicyphus* Fieber. XXVIII. The genera *Melanotrichus* Reuter, *Crassicolus* n. g., *Myrmecozelotes* Berg. and *Hyporhinocoris* Reuter. XXX. The genera *Ellenia* Reuter, *Eurychiloptrella* Reuter, and *Rhinacloa* Reuter, with descriptions of new species (Hemiptera).

28931 CHAMBERLIN, T. R. Effect of spittlebugs [Cercopidae] on forage yield and quality. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 90-91. 1948. 423.9 Am32

28932 CHINA, W. E., and USINGER, R. L. A new species of *Chopardita* Villiers from the Anglo-Egyptian Sudan with notes on the Subfamily Vesciinae (Hemiptera-Reduviidae). Ann. & Mag. Nat. Hist. (ser. 12) 1: 598-604. Ref. Aug. 1948. 410 An77

28933 DAHMS, R. G. Comparative tolerance of small grains to greenbugs [Toxoptera graminum] from Oklahoma and Mississippi. J. Econ. Ent. 41: 825-826. Oct. 1948. 421 J822

28934 DAS, G. M. *Ferrisia virgata* Ckll. (Coccidae), a new pest of jute (*Corchorus olitorius*) in Bengal. Sci. and Cult. 12: 453-454. Mar. 1947. 475 Sci24

28935 DEBACH, P. Citricola scale [*Coccus pseudomagnoliarum*] parasites. Calif. Citrog. 34: 168. Feb. 1949. 80 C125

28936 DENNING, D. G. Aphid control with hexaethyl tetraphosphate. J. Econ. Ent. 41: 817. Oct. 1948. 421 J822

*Pterocomma smithiae* on willow. Includes list of other insects killed.

28937 DENNING, D. G. The crested wheat bug [*Labops hesperius*]. Wyo. Agr. Expt. Sta. C. 33, 2 p. May 1948. 100 W99

28938 DIAS, E. Control of diseases transmitted by *Triatomas*. (In Portuguese.) Ofic. Sanit. Panamer. B. 27: 1160-1164. Dec. 1948. 449.9 P192B

English summary.

28939 DICKSON, R. C. Aphid flights in relation to cantaloupe mosaic. Plant Dis. Rptr. Sup. 180: 7-8. Jan. 30, 1949. 1.9 P69P

28940 DOUGLASS, J. R., GIBSON, K. E., and HALLOCK, H. C. Reducing curly top infection with insecticides. J. Econ. Ent. 41: 814. Oct. 1948. 421 J822

Control of *Circulifer tenellus*, curly top vector.

28941 DRAKE, C. J. American Tingidae (Hemiptera). Rev. de Ent. 19: 429-436. Dec. 1948. 421 R326

Includes new species in *Teleonemia*, *Ambycysta*, *Pachycysta*, *Nyctotingis*, and *Corythucha*.

28942 DRAKE, C. J., and CARVALHO, J. C. M. Concerning South American Saldidae (Hemiptera). Rev. de Ent. 19: 473-480. Dec. 1948. 421 R326

Includes new species in *Pentacora* and *Saldula*.

28943 DRAKE, C. J. The genus *Compseuta* Stål (Hemiptera, Tingidae). Ent. Soc. Wash. Proc. 50: 197-204. Nov. 1948. 420 W27

Includes n. spp. and forms.

28944 DRAKE, C. J. A new genus [Galeotingis] and two new species of Tingidae (Hemiptera). Brazil. Mus. Nac. B. Nov. Sér. Zool. 81, 4 p. Aug. 18, 1947. 516 R47Bz

Portuguese summary.

28945 DUDLEY, J. E., JR., BRONSON, T. E., and STONE, P. C. Comparative effectiveness of three types of DDT dust mixtures against the pea aphid [*Macrosiphum pisi*]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 82-83. 1948. 423.9 Am32

28946 DUDLEY, J. E., JR., BRONSON, T. E., and STONE, P. V. Tetraethyl pyrophosphate, parathion, and benzene hexachloride to control the pea aphid [*Macrosiphum pisi*]. J. Econ. Ent. 41: 817. Oct. 1948. 421 J822

28947 ESAKI, T. Notes on *Hermatobates haddonii* Carpenter (Hemiptera, Gerridae). Mushi 18: 49-51. Sept. 25, 1947. 421 M97

28948 ESSELBAUGH, C. O. Notes on the bionomics of some midwestern Pentatomidae. Ent. Amer. 28: 1-73. Ref. Jan./Apr. 1948, pub. Jan. 24, 1949. 420 B792

28949 EVANS, J. W. Some observations on the classification of the Membracidae and on the ancestry, phylogeny and distribution of the Jassoidea. Roy. Ent. Soc. London, Trans. 99: 497-515. Dec. 15, 1948. Ref. 420 L84



- 28950 FENNAH, R. G. New Pintalline Cixiidae, Kinnaridae and Tropiduchidae from the Lesser Antilles (Homoptera: Fulgoroidea). *Ann. & Mag. Nat. Hist.* (ser. 12) 1: 417-437. June 1948, pub. Dec. 31, 1948. 410 An77  
New species and forms in Pintalia, Cubana, Cubanella n. g., Prosotropis, Quilessa, and Tangidia.
- 28951 FERGUSON, W. C. The spectroanalysis of DDT and its degradation products in the large milkweed bug [*Oncopeltus fasciatus*]. Urbana, 1948. 4 p. 423 F38  
Abstract of thesis—Univ. of Illinois.
- 28952 FLANDERS, S. E. George Compere—pioneer in the biological control of red scale [*Aonidiella aurantii*]. *Calif. Citrog.* 34: 160-162. Feb. 1949. 80 C125
- 28953 FLUKE, C. L. DDT for buffalo treehopper [*Ceresa bubalis*] control. (Abs.) *Amer. Assoc. Econ. Ent. North Cent. States Br. Proc.* 3: 103. 1948. 423.9 Am32
- 28954 FLUKE, C. L., and O'NEAL, E. J. DDT for summer control of oyster shell scale [*Lepidosaphes ulmi*]. (Abs.) *Amer. Assoc. Econ. Ent. North Cent. States Br. Proc.* 3: 100-101. 1948. 423.9 Am32
- 28955 FRIEND, W. H. Growers aroused against black fly [*Aleurocanthus woglumi*] menace. *Tex. Farming & Citric.* 25: 19, 22. Jan. 1949. 80 T31
- 28956 GAINES, J. G., and DEAN, H. A. Comparison of insecticides for control of harlequin bugs [*Murgantia histrionica*]. *J. Econ. Ent.* 41: 808-809. Oct. 1948. 421 J822
- 28957 GAMBRELL, F. L. Snowball aphids [*Anuraphis viburnicola*] held in check with well-timed sprays. *Farm Res.* [N. Y. State Sta] 15: 11. Jan. 1949. 100 N48A
- 28958 GELLATLEY, J. G. G. New insecticides on aphids; some preliminary tests. *Agr. Gaz. N. S. Wales* 59: 540-541. Oct. 1948. 23 N472
- 28959 GIL COLLADO, J. Los parásitos de las aves de corral. V. Chinchas y pulgas de las gallinas. *Ganadería* [Madrid] 6: 524-526. Oct. 1948. 49 G15  
*Cimex columbarius*; *Ceratophyllus gallinae*, *Echinophaga gallinacea*.
- 28960 GIULIANELLI, E. Test control of scale insects [Coccidae] and aphids. (In Italian.) *Agr. Romagnola* 23: 1. Dec. 5, 1948. 16 Ag828
- 28961 GRIFFITHS, J. T., JR., and THOMPSON, W. L. A preliminary report on the possibilities for forecasting periods of oviposition activity for purple and Florida red scales. *Citrus Indus.* 30(2): 5-7, 20. Feb. 1949. 80 C49  
*Lepidosaphes beckii* and *Chrysomphalus aonidum*.
- 28962 HARRISON, J. W. H. Livia juncorum Latr. galling *Juncus gerardi* Lois. *Entomologist* 81: 286. Dec. 1948. 421 En8
- 28963 HERRING, J. L. Taxonomic and distributional notes on the Hydrometridae of Florida (Hemiptera). *Fla. Ent.* 31: 112-116. Dec. 1948. 420 F662
- 28964 HOFFERBERT, W. Pfirsichblattlaus [*Myzus persicae*] und viröser kartoffelabbau. *Neue Mitt. f. die Landw.* 3: 116-117. Apr. 21, 1948. 18 N39
- 28965 HUNGERFORD, H. B. The eggs of Corixidae (Hemiptera). *Kans. Ent. Soc. J.* 21: 141-146. Oct. 1948. 420 K13
- 28966 HUNGERFORD, H. B. The Torre-Bueno collection of Hemiptera. *Brooklyn Ent. Soc. B.* 43: 148. Dec. 1948. 420 B79
- 28967 HUSSEY, R. F. A necessary change of name (Hemiptera, Saldidae). *Brooklyn Ent. Soc. B.* 43: 153. Dec. 1948. 420 B79  
*Salda coriacea* Uhler should be *S. bouchervillei* (Provancher).
- 28968 HUSSEY, R. F. A new *Metrobates* from Florida (Hemiptera, Gerridae). *Fla. Ent.* 31: 123-124. Dec. 1948. 420 F662
- 28969 JEWETT, H. H. Insect pests of bluegrass. (Abs.) *Amer. Assoc. Econ. Ent. North Cent. States Br. Proc.* 3: 96. 1948. 423.9 Am32  
*Miris dolobratrus*; *Amblytylus nasutus*.
- 28970 KENDRICK, J. B., JR. Vectors of cantaloupe mosaic and their transmission habits. *Plant Dis. Rptr.* Sup. 180: 6. Jan. 30, 1949. 1.9 P69P  
*Aphis gossypii*, *A. maidis*, *Myzus persicae*, and *Macrosiphum pisi*.
- 28971 KHANNA, K. L., and others. Studies in sampling technique. I. Estimation of whitefly (*Aleurolobus barodensis*) incidence in sugarcane. *Indian Acad. Sci. Proc. Sect. B* 28: 107-130. Oct. 1948. 513 In25B  
L. N. Nigam, B. R. Sehgal, and K. S. Bandyopadhyay, joint authors.
- 28972 KITZMILLER, J. B. Notes on the life cycle of the Chrysanthemum aphid, *Macrosiphum sanborni* (Gillette). *Ent. Soc. Amer. Ann.* 41: 393-396. Sept. 1948. 420 En82
- 28973 KNOWLTON, G. F. Aphids from the West. *Kans. Ent. Soc. J.* 21: 147-149. Oct. 1948. 420 K13
- 28974 KNOWLTON, G. F. How ladybird beetles [Coccinellidae] aid in pea aphid [*Macrosiphum pisi*] control. *Canner* 108(2): 13. Jan. 8, 1949. 286.83 C16
- 28975 KNOWLTON, G. F. A new *Capitophorus* aphid. *Kans. Ent. Soc. J.* 21: 121-123. Oct. 1948. 420 K13
- 28976 LA RIVERS, I. A new species of *Pelocoris* from Nevada, with notes on the genus in the United States (Hemiptera: Naucoridae). *Ent. Soc. Amer. Ann.* 41: 371-376. Ref. Sept. 1948. 420 En82
- 28977 LEGRAND, J. J. Sur la réalisation du dispositif d'accrochage des hémélytres au thorax chez *Notonecta* (insectes Héméptères). *Paris. Acad. des Sci. Compt. Rend.* 227: 1413-1415. Dec. 20, 1948. 505 P21
- 28978 LEITE, I. C. *Cimex hemipterus* (Hemiptera, Cimicidae). (In Portuguese.) *Acad. Bras. de Cien. An.* 20: 273-276. Sept. 1948. 516 R473A  
English summary.
- 28979 LIMA, A. DA C., HATHAWAY, C. R., and SEABRA, C. A. C. On some species of *Apiomerinae* represented in our collections (Hemiptera: Reduviidae). (In Portuguese.) *Inst. Oswaldo Cruz Mem.* 45: 761-772. 1947. 448.9 In74  
Includes new species in *Paramanicocoris* n. g.
- 28980 LINDGREN, D. L. An effective control treatment for scale insects on citrus, fumigation with hydrocyanic acid. *Fruit & Veg. Rev.* 9(10): 11, 26. Jan. 1949. 80 C1224
- 28981 LORD, F. T. The influence of spray programs on the fauna of apple orchards in Nova Scotia. II. Oyster-shell scale. *Lepidosaphes ulmi* (L.). *Canad. Ent.* 79: 196-209. Nov./Dec. 1947. 421 C16
- 28982 MACLAGGAN, M. E. Progress of the potato aphid survey in New Brunswick and adjacent provinces and in Newfoundland. *Ontario Ent. Soc. Ann. Rpt.* (1947) 78: 29-31. 1948. 420 On8  
*Macrosiphum solanifolii*, *Myzus persicae*, *M. convolvuli*, and *Aphis abbreviata*.
- 28983 MAHDIHASSAN, S. Bacterial origin of muscle pigment in a cicada [*Platypleura octoguttata*]. *Rev. de Ent.* 19: 585-586. Dec. 1948. 421 R326
- 28984 MAHDIHASSAN, S. Two neglected insect enemies of lac. *Indian Forester* 73: 445-446. Oct. 1947. 99.8 In2  
*Chrysopa khandalina* and a reduviid bug preying on lac insects (*Laccifer lacca*?).
- 28985 MALENOTTI, E. *Prospaltella berlesei* How. after 40 years distribution in Italy. (In Italian.) *Ital. Agr.* 85: 729-735. Ref. Dec. 1948. 16 It1  
For control of *Diaspis pentagona*.
- 28986 MAMBISH, I. E. Ispol'zovanie pshenifsy, povrezhdennoi klopom-chereshashkoj [Utilization of wheat damaged by *Pentatomidae*]. *Moskva, Gos. Izd-vo Tekhn. i Ekon. Lit-ry po Voprosam Zagotovok*, 1948. 102 p. 298 M312
- 28987 MASON, H. C., and SCHRECK, A. G. The total hop aphid [*Phorodon humuli*] count. *Amer. Soc. Brewing Chem. Proc. Ann. Mtg.* 1948: 102-104. 390.9 Am321  
Discussion, p. 104-105.
- 28988 MAY, A. W. S. Red scale [*Aonidiella aurantii*] control. *Queensland. Div. Plant Indus. Pam.* 129, 4 p. 1947. 423.92 Q3P
- 28989 MILLER, N. C. E. New genera and species of Reduviidae from the Philippines, Celebes and Malaysia. *Roy. Ent. Soc. London, Trans.* 99: 411-473. Ref. Nov. 29, 1948. 420 L84  
New species in *Ischnonyctes*, *Polytoxus*, *Neothodelmus*, *Sastrapada*, *Duriocoris*, *Oncocephalus*, *Thodelmus*, *Lisarda*, *Apechtiella* n. g., *Pasiropsis*, *Acanthaspis*, *Durganda*, *Tiarodes*, *Korinchocoris*, *Ectomocoris*, *Androclous*, *Pirates*, *Sirihenea*, *Santosia*, *Neoscadra*, *Caecina*, *Ectrychotes*, *Schottus*, *Vilius*, *Rhinocoris*, *Biasticus*, *Sycanus*, *Eulyes*, *Hagia*, *Euagoras*, *Endochus*, *Epidaus*, *Isyndus*, *Panthous*, *Siamocoris*, and *Parasclomina* n. g.
- 28990 MORITSU, M. Four gall-forming aphids [*Myzus* spp.] on cherry trees in Japan. *Mushi* 18: 39-48. Sept. 25, 1947. 421 M97
- 28991 MORITSU, M. The genus *Megoura* Buckton in Japan, with a note on the variation of the external characters in *Megoura viciae japonica* (Matsumura). *Mushi* 18: 83-88. Feb. 10, 1948. 421 M97



- 28992 MORITSU, M. Injurious aphids in Japan. 1. Aphids of potatoes. (In Japanese.) Mushi 18: 67-75. Feb. 10, 1948. 421 M97
- 28993 NEGhme, A., and ROMÁN, J. Present state of Chagas' disease surveys in Chile. Amer. J. Trop. Med. 28: 835-839. Nov. 1948. 448.8 Am33  
Principal insect vector, *Triatoma infestans*.
- 28994 NEISWANDER, C. R. The present status of the corn leaf aphid [*Aphis maidis*]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 35-36. 1948. 423.9 Am32
- 28995 NEW SOUTH WALES. DEPT. OG AGRICULTURE. ENTOMOLOGICAL BR. Green peach aphid. (*Myzus persicae*). Agr. Gaz. N. S. Wales 59: 601-603. Nov. 1, 1948. 23 N472
- 28996 PARENCIA, C. R., JR., and EWING, K. P. Control of the cotton fleahopper [*Psallus seriatus*] by chlorinated camphene, DDT and sulphur. J. Econ. Ent. 41: 735-738. Oct. 1948. 421 J822
- 28997 PELLEGRINO, J., and BORROTCHIN, M. A survey on the occurrence of Chagas' disease in patients of Holy House of Mercy Hospital, Belo Horizonte. Brasil Med. 62: 314-315. Sept. 4/11, 1948. 448.8 B73  
Portuguese and English texts.  
*Panstrongylus megistus*, *Triatoma infestans*, and *T. sordida* principal vectors.
- 28998 RIVEROS, J. E. Breve historia de la filoxera y del empleo de los portaingertos. Vinos, Viñas y Frutas 44: 235-237. (To be cont.) Nov. 1948. 9 Ag89  
Grapes.
- 28999 ROUSCHAL, W. Ein gefährlicher obstbaumschädling, die San-José-Schildlaus [*Aspidiotus perniciosus*], auch in Salzburg. Salzburg. Bauer 3(47): 3. Nov. 18, 1948. 19 Sa3
- 29000 SAUER, H. F. G. O percevejo rajado do algodoeiro *Horcias nobilellus* (Berg). Colheit. e Mercad. 3(7): 25-28, processed. July 1947. 255.3 Sa652
- 29001 SHARGA, U. S. Biological control of some hemipterous insect pests of crops in India. Cur. Sci. 17: 302-303. Oct. 1948. 475 Sci23
- 29002 SHAW, F. R., BAILEY, J. S., and BOURNE, A. L. Biology and control of a Lecanium [*L. quercifex*?] attacking cultivated blueberries. J. Econ. Ent. 41: 822. Oct. 1948. 421 J822
- 29003 SMITH, C. F. A new aphid [*Neoamphorophora tephrosiae*] on devil shoe string (*Tephrosia virginiana*, L. Pers.). Ent. Soc. Amer. Ann. 41: 384-386. Sept. 1948. 420 En82
- 29004 STITT, L. L. Reduction of the vegetative growth of alfalfa by insects. J. Econ. Ent. 41: 739-741. Oct. 1948. 421 J822  
Damage due to *Empoasca fabae*, *Lygus* spp., and *Creontiades femoralis*.
- 29005 SUN, Y. P., NORTON, L. B., and RAWLINS, W. A. Factors affecting toxicity in formulating chlordan emulsions. J. Econ. Ent. 41: 751-755. Oct. 1948. 421 J822  
Tests with *Aphis gossypii*.
- 29006 SYLVESTER, E. S., and MCLEAN, J. G. Aphid control on potatoes. Amer. Potato J. 26: 16-24. Jan. 1949. 75.8 P842
- 29007 VILLIERS, A. Un *Hoplitocoris* nouveau de l'Indochine (Hem. Henicocephalidae). Soc. Ent. de France B. 53: 112. July 21, 1948. 420 F84B
- 29008 WETTINGER. Gemeinfam gegen die San-José-schildlaus [*Aspidiotus perniciosus*]! Gartenfreund [Heidelberg] 80: 4. Jan. 1948. 80 G1934
- 29009 WHITE, W. H. Quality and yield of sugar beet seed increased by control of sucking bugs. U. S. Agr. Res. Admin. Res. Achvt. Sheet 96, 2 p. July 1948. 1.98 R31  
*Chlorochroa sayi*, *Lygus* spp.
- 29010 WOGLUM, R. S., PLUMMER, C. C., and SHAW, J. G. Insecticides for citrus blackfly [*Aleurocanthus woglumi*]. Calif. Citrog. 34: 146, 177-180. Feb. 1949. 80 C125
- 29011 WOODSIDE, A. M. Tetraethyl pyrophosphate for control of the periodical cicada [Magicalicada septendecim]. J. Econ. Ent. 41: 722-724. Oct. 1948. 421 J822
- 29012 WYGODZINSKY, P. On some Reduviidae of the Amazon Region (Hemiptera). (In Portuguese.) Rev. de Ent. 19: 557-564. Dec. 1948. 421 R326
- HYMENOPTERA
- 29013 BENNO, P. Notes on bees and wasps. I-II. (In Dutch.) Ent. Ber. 12: 250-251, 281-289. July 1, Nov. 1, 1948. 420 N38B  
I. Two gynandromorphic bees [*Osmia aenea*; *Megachile willoughbiella*]. II. Two species of bees new to Netherlands [*Nomada obscura*; *Megachile alpicola*], and some rare ones from the Deurnese Peel.
- 29014 BENSON, R. B. A reply to Dr. Blair's proposal about the nomenclature of Cynipidae (Hym.). Ent. Monthly Mag. 84: 285-286. Dec. 1948. 421 En86
- 29015 BLAKESLEE, E. B. A laboratory technique for testing insecticide residues against ants. Ent. Soc. Wash. Proc. 50: 224. Nov. 1948. 420 W27
- 29016 BORGMEIER, T. Einige ameisen aus Argentinien (Hym. Formicidae). Rev. de Ent. 19: 459-471. Ref. Dec. 1948. 421 R326  
Includes new species and forms in *Eciton* and *Monomorium*.
- 29017 CHEESMAN, L. E. Bees of New Guinea and the New Hebrides. Ann. & Mag. Nat. Hist. (ser. 12) 1: 318-335. May 1948 pub., Dec. 8, 1948. 410 An77  
Includes n. spp. in *Palaeorhiza*.
- 29018 DAVIAULT, L. Abeilles découpeuses de feuilles [Megachilidae]. Forêt Québécoise 14: 29-30. Jan. 1949. 99.8 F79
- 29019 DEGENER, G. Die raubwespe [*Ammophila sabulosa*] lässt sich nicht anführen. Natur u. Tech. 2: 269, 278-279. Sept. 15, 1948. 475 N215
- 29020 DONISTHORPE, H. A fifth instalment of the Ross collection of ants from New Guinea. Ann. & Mag. Nat. Hist. (ser. 12) 1: 487-506. July 1948. 410 An77  
Includes new species in *Cerapachys*, *Myopopone*, *Bothroponera*, *Ponera*, *Tetraponera*, *Meranoplus*, *Myrmecina*, *Podomyrma*, *Iridomyrmex*, *Polyrhachis*, and *Pseudolasius*.
- 29021 DONISTHORPE, H. A new genus [Weberidris] and species of dacetina ant (Hym., Formicidae) from New Guinea. Ent. Monthly Mag. 84: 281. Dec. 1948. 421 En86
- 29022 DREISBACH, R. R. The description of a new species of the genus *Ceropales* (Hymenoptera: Psammocharidae) with a key to the species of North America. N. Y. Ent. Soc. J. 56: 233-238. Dec. 1948. 420 N48J
- 29023 EIDE, P. M. A tip-infesting sawfly [*Ardis sulcata*] on rose. J. Econ. Ent. 41: 819-821. Oct. 1948. 421 J822
- 29024 GAUL, A. T. Additions to vespine biology VI: notes on *Vespula rufa* var. *consobrina* Saussure. Brooklyn Ent. Soc. B. 43: 160-162. Dec. 1948. 420 B79
- 29025 GERMOND, D. DE, FILS. Les ennemis des abeilles. Le philanthe apivore [*Phylanthus triangulum*]. Rev. Franç. d'Apic. 30: 612. June 1948. 424.8 R329
- 29026 GREGG, R. E. An unusual nest of the prairie mound-building ant [*Formica cinerea neocinerea*] (Hymenoptera, Formicidae). Ent. Soc. Wash. Proc. 50: 183-186. Oct. 1948. 420 W27
- 29027 GROSCH, D. S. The cells of the fat body in haploid and diploid types of *Habrobracon* [i.e. *Microbracon*]. (Abs.) Elisha Mitchell Sci. Soc. J. 64: 178. Dec. 1948. 500 EL4
- 29028 HAVILAND, E. Population of two nests of *Vespula squamosa* (Dru.). (Abs.) Ent. Soc. Wash. Proc. 50: 194. Oct. 1948. 420 W27
- 29029 KENNEDY, C. H. Myrmecological technique. III. DDT too perfect an ant killer for the collector's use. Ohio J. Sci. 48: 248-249. Nov. 1948. 410 Oh3
- 29030 LITH, J. P. VAN. On nests of *Crabro capitatus* Sh. in twigs of a weeping ash. (In Dutch.) Ent. Ber. 12: 265-267. Sept. 1, 1948. 420 N38B  
English summary.
- 29031 LLOYD, N. C. The use of DDT to control the cherry slug (*Calioira limacina* [i. e. *cerasi*]). Agr. Gaz. N. S. Wales 59: 541, 546. Oct. 1948. 23 N472
- 29032 LYLE, C., and FORTUNE, I. Notes on an imported fire ant [*Solenopsis saevissima richteri*]. J. Econ. Ent. 41: 833-834. Oct. 1948. 421 J822
- 29033 MANN, W. M. Ant hill odyssey. Boston, Little, Brown, 1948. 338 p. 411 M312  
Autobiography. Includes material on ants and other insects.
- 29034 MAVROMOUSTAKIS, G. A. On the bees (Hymenoptera: Apoidea) of Cyprus. I. Ann. & Mag. Nat. Hist. (ser. 12) 1: 541-587. Aug. 1948. 410 An77  
Includes new species and forms in *Andrena*, *Ceratina*, *Osmia*, *Anthidium*, *Anthidiellum*, and *Dioxoides*.



- 29035 MICHENER, C. D. Observations on the mating behavior of harvester ants [*Pogonomyrmex*]. N. Y. Ent. Soc. J. 56: 239-242. Dec. 1948. 420 N48J
- 29036 MIDDLEKAUFF, W. W. A new species of *Strex* from California (Hymenoptera: Siricidae). Pan-Pacific Ent. 24: 189-190. Oct. 1948. 421 P193
- 29037 MULDER, J., and FELL, W. Notes on the biology of the larch sawfly [*Pristophora erichsonii*]. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(5): 2-3. Sept./Oct. 1948. 423.92 C16F
- 29038 MUNRO, J. A. Present status of certain pests. The wheat stem sawfly [*Cephus cinctus*]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 34-35. 1948. 423.9 Am32
- 29039 MURBACH, R. Observations concernant l'action de quelques insecticides sur les larves de la tenthrède de la rave (*Athalia colibri* Christ.). Rev. Romande d'Agr., de Vitic. et d'Arbor. 5(1): 6-7. Jan. 1949. 17 J82A
- 29040 NARAYANAN, E. S., VENKATRAMAN, T. V., and SEN GUPTA, G. C. Studies in experimental insect parasitism; superparasitism. Cur. Sci. 17: 269-270. Sept. 1948. 475 Sci23
- Observations on *Microbracon gelechia* reared on *Coryca cephalonica*.
- 29041 NIBLETT, M. More alternating generations in Cynipidae (Hym.). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 142-144. Ref. Dec. 15, 1948. 420 L84Pb
- Includes new form in Cynips.
- 29042 PALMER-JONES, T., and DEVINE, B. W. Destruction of queen wasps by spraying. New Zeal. J. Agr. 77: 557-558. Dec. 1948. 23 N48J
- Vespa vulgaris* and *Vespa germanica*.
- 29043 PAVIA, UNIVERSITÀ. ISTITUTO DE ANATOMIA COMPARATA. Studi sugli antibiotici di origine animale. I-VI. [Studies on the antibiotics of animal origin, by M. Pavan and A. Nascimbene]. Pavia, Tipografia del Libro, 1948. Ref. 448.2 P28
- I. On an antibiotic principle from *Iridomyrmex humilis* Mayr, 7 p. II. Research on some Formicidae containing formic acid, 4 p. III. On the significance of the formic acid in aqueous extracts on the antibacterial action of some Formicidae, 4 p. IV. On the presence of antibiotic substances in the heads of *Dendrolasius fuliginosus* Latr. and *Lasius bicornis affinis* Sch., 4 p. V. First researches on Hymenoptera, Sphecidae and Vespidae, 3 p. VI. Résumé of the study of 40 animal species, of which 17 show positive results, 8 p.
- 29044 RAU, P. A note on the nesting habits of the wasp, *Pemphredon inornatus* Say. Ent. Soc. Amer. Ann. 41: 326. Sept. 1948. 420 En82
- 29045 RUFFINELLI, A. Sobre la introducción al Uruguay de un enemigo natural de la "mosca del Mediterráneo." Uruguay. Min. de Ganad. y Agr. B. Inform. 247: 2. Dec. 2, 1948. 9.9 G15B
- Tetrastichus giffardianus*, parasite of *Ceratitis capitata*.
- 29046 SCULLEN, H. A. New species in the genus *Eucerceris* with notes on recorded species and a revised key to the genus (Hymenoptera: Sphecidae). Pan-Pacific Ent. 24: 165-180. (Cont.) Oct. 1948. 421 P193
- 29047 SHAPPIRO, D. G. Observations on the biology of some mutillid wasps (Hym.: Mutillidae). II. With new distributional records. Brooklyn Ent. Soc. B. 43: 157-159. Dec. 1948. 420 B79
- 29048 SIMMONDS, F. J. Some factors influencing diapause. Canad. Ent. 79: 226-232. Nov./Dec. 1947. 421 C16
- Experiments with *Cryptus inornatus* grown on *Loxostege sticticalis* and *Pyrausta nubilalis* larvae.
- 29049 SMITH, M. R. A new genus [*Acalama*] and species of ant from India (Hymenoptera: Formicidae). N. Y. Ent. Soc. J. 56: 205-208. Dec. 1948. 420 N48J
- 29050 SMITH, R. W. *Collyria calcitrator* Grav., an important parasite of *Cephus pygmaeus* L. in Europe, established in Ontario. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 39-44. Ref. 1948. 420 On8
- 29051 SOYER, B. Notes sur les sphégiens et les pompiles. VII. Les pontes chez les Pompilides [*Psammocharidae*]. Soc. Ent. de France B. 53: 125-128. Oct. 27, 1948. 420 F84B
- 29052 STEFFAN, J. R. Deux nouveaux genres d'Haltichellinae (Hym. Chalcididae). Soc. Ent. de France B. 53: 118-123. Oct. 27, 1948. 420 F84B
- Tropimeris*; *Peltochalcidia*.
- 29053 TAKEUCHI, K. Tenthredinoidea of Shansi, China. (In Japanese.) Mushi 18: 53-58. Feb. 10, 1948. 421 M97
- 29054 TOLEDO, A. A. DE. Behavior of the Uganda wasp [*Prorops nasuta*] in shaded coffee plantations. (In Portuguese.) Biologico 14: 189-191. Aug. 1948. 442.8 B529
- Parasite of *Stephanoderes hampei*.
- 29055 TOMPKINS, W. Filming the harvester ant [*Pogonomyrmex*]. Amer. Cinematographer 30(1): 18, 22-24. Jan. 1949. 332.8 Am33
- 29056 TSUNEMI, K. Chrysidae from Shansi, North China (Hymenoptera). Mushi 18: 115-128. Aug. 30, 1948. 421 M97
- Includes new species and forms in *Notozus*, *Ellampus*, and *Chrysellampus*.
- 29057 VERDCOURT, B. The turnip sawfly, *Athalia rosae* (L.) (colibri Christ.) (Hym., Tenthredinidae) in Bedfordshire. Ent. Monthly Mag. 84: 270. Dec. 1948. 421 En86
- 29058 VESEY-FITZGERALD, B. Ants in general. Nature Lover 6(1): 10-13. Jan. 1949. 410 N218
- 29059 WALTON, G. A. A minute bethylid wasp of medical interest. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 23: 98. Dec. 28, 1948. 420 L84Pa
- Painful stings caused by *Scleroderma wollastoni*.
- 29060 WATANABE, C. On three species of Braconidae bred from some beetles (Hymenoptera). Mushi 18: 95-99. Aug. 30, 1948. 421 M97
- Spathius radzayanus*, *Ecphyllus hattorii*, *Calyptus satai* n. sp.
- 29061 WHITING, A. R. Incidence and origin of androgenetic males in X-rayed *Habrobracon* [i.e. *Microbracon*] eggs. Biol. B. 95: 354-360. Ref. Dec. 1948. 442.8 B52
- 29062 WOLCOTT, G. N. Collecting parasites of white grubs for Puerto Rico: then and now. J. Econ. Ent. 41: 813. Oct. 1948. 421 J822
- Introduction of *Tiphia* wasps.
- 29063 YASUMATSU, K. Ichneumon hibernation in Japan (Hymenoptera). Mushi 18: 77-81. Feb. 10, 1948. 421 M97
- Observations on *Cratichneumon bifasciatus* and *Hoplismenes terrificus*.
- 29064 YASUMATSU, K. Some wasps [Vespoidea] and bees [Apoidea] of the desert Kunshan-tagh in Inner Mongolia. Mushi 18: 29-33. Sept. 25, 1947. 421 M97
- See also Apiculture and *Apis mellifera*.

## LEPIDOPTERA

- 29065 AGENJO, R. La ♀ de *Adalbertia castiliaria* (Stgr.) y una segunda generación de esta especie (Lep. Geom.). Eos 24: 213-232. Ref. June 30, 1948. 421 Eo7
- 29066 ANTRAM, C. B. Note on the butterflies of the New Forest area in 1948 compared with 1947 and weather conditions. Ent. Rec. & J. Variation 60: 122-124. Dec. 1948. 421 En89
- 29067 ARANT, F. S. Preliminary field tests with new insecticides for control of velvetbean caterpillar [*Anticarsia gemmatilis*]. J. Econ. Ent. 41: 803. Oct. 1948. 421 J822
- 29068 ARAUJO, R. L. Note on the nomenclature of *Neoleucinodes elegantalis*, the tomato borer. (In Portuguese.) Biologico 14: 193. Aug. 1948. 442.8 B529
- 29069 BARTHOLOMAI, C. W. Predators on corn borer [*Pyrausta nubilalis*] egg masses. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 32-34. 1948. 423.9 Am32
- 29070 BAUER, D. L. Methods for collecting buckmoths (*Hemileuca*, Saturniidae). Lepidopterists' News 2: 81-82. Oct. 1948. 421 L554
- 29071 BECK, E. W. Estimates of damage to corn by the European corn borer [*Pyrausta nubilalis*] in the United States in 1948. U. S. Bur. Ent. and Plant Quar. Insect Pest Survey. Spec. Sup. 1949(2), 2 p. Jan. 20, 1949. 1.9 En831B
- 29072 BECK, E. W. Status of the European corn borer [*Pyrausta nubilalis*] in 1948. U. S. Bur. Ent. and Plant Quar. Insect Pest Survey. Spec. Sup. 1949(1), 16 p. Jan. 10, 1949. 1.9 En831B
- 29073 BLAIS, J. R., and THORSTEINSON, A. J. The spruce budworm [*Choristoneura fumiferana*] in relation to flowering condition of the host tree. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4 (5): 1. Sept./Oct. 1948. 423.92 C16F



- 29074 BLANCHARD, R. A. The corn earworm [*Heliothis armigera*] as a pest of corn. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 78-80. 1948. 423.9 Am32
- 29075 BOX, H. E. Report upon specimens of *Diatraea* Guild. in the Paris Museum, with the description of a new species from Brazil (Lep., Pyral.). Rev. de Ent. 19: 419-422. Dec. 1948. 421 R326
- 29076 BREAKEY, E. P., and BATCHELOR, G. S. The orange tortrix. [*Argyrotaenia citrana*] a pest of raspberries in western Washington. J. Econ. Ent. 41: 805-806. Oct. 1948. 421 J822
- 29077 BROWN, F. M. The butterflies north of Mexico, - a Society project. Lepidopterists' News 2: 77-78. Oct. 1948. 421 L554
- 29078 CANNON, R. C., and HEGARTY, A. An outbreak of grass webworm [*Calamotropha leptogramella*] in Atherton Tableland pastures. Queensland. Div. Plant Indus. Pam. 120, 5 p. 1947. 423.92 Q3P
- 29079 CARY, M. M. Collecting Spingidae in Jamaica, 1948. Lepidopterists' News 2: 86. Oct. 1948. 421 L554
- 29080 CHERMOCK, F. H., and FRECHIN, D. P. A new race of *Incisalia eryphon* from Washington (Lepidoptera: Lycaenidae). Pan-Pacific Ent. 24: 212. Oct. 1948. 421 P193
- 29081 CHIARELLI DE GAHAN, A. La isoca del lino [*Thyreion gelotopoeon*]. Campo y Suelo Argentino 32(385): 31, 42. Nov. 1948. 9 C15
- 29082 CHNEOUR, A. Contribution a l'étude des Macrolépidoptères de Tunisie. Soc. d'Hist. Nat. de l'Afrique du Nord, B. 38(1/9): 18-31. Jan./Dec. 1947. 410.9 Sol25
- 29083 CLARK, A. H. A new subspecies of *Glaucopsyche lygdamus* (Lepidoptera, Lycaenidae). Ent. Soc. Wash. Proc. 50: 176-178. Oct. 1948. 420 W27
- 29084 CLEU, H. Rhopalocères des Cévennes. Rev. Franç. de Lépidoptérologie 11: 349-354. Sept. 1948. 421 P192
- 29085 COCKAYNE, E. A. Aberrations of British Macrolépidoptera. Ent. Monthly Mag. 84: 265-267. Dec. 1948. 421 En86
- New aberrations in *Spilosoma*, *Cynia*, *Campaea*, *Ennomos*, *Selenia hygrochroa*, *Gonodontis*, *Crocallis*, *Lycia*, and *Cleora*.
- 29086 COLDEWEY, H. Again a new geometrid. (In Dutch.) Ent. Ber. 12: 296. Nov. 1, 1948. 420 N38B
- Scopula ternata*.
- 29087 COMMON, I. F. B. Control of corn ear worm [*Heliothis armigera*] on tomatoes. Queensland. Div. Plant Indus. Adv. Leaflet 134, 3 p. 1948. 423.92 Q3A
- 29088 CORBET, A. S. Observations on the species of *Rhopalocera* common to Madagascar and the Oriental Region. Roy. Ent. Soc. London, Trans. 99: 589-607. Ref. Dec. 28, 1948. 420 L84
- 29089 CORBET, A. S. Revisional notes on Oriental Lycaenidae. I-II. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 93-102. Aug. 16, 1948. 420 L84Pb
- Includes n. spp. and forms in *Arhopala*, *Jacoona*, and *Chliaria*.
- 29090 CROZES, J. *Melitaea deione* Hübner, dans la banlieue de Toulouse. Rev. Franç. de Lépidoptérologie 11: 364. Sept. 1948. 421 P192
- 29091 DEAY, H. O. Recent work with radiant energy on the European corn borer [*Pyrausta nubilalis*] and other insects. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 31-32. 1948. 423.9 Am32
- 29092 DECKER, G. C. Resume of 1948 recommendations for chemical control of the European corn borer [*Pyrausta nubilalis*]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 28-29. 1948. 423.9 Am32
- 29093 DELNOYE, M. Overwintering of *Macroglossum stellatarum* L. (In Dutch.) Ent. Ber. 12: 263-264. July 1, 1948. 420 N38B
- 29094 DEXTER, R. W. An unusual record of the black witch, *Erebus odora* (L.). Lepidopterists' News 2: 86. Oct. 1948. 421 L554
- 29095 DIAKONOFF, A. Records and descriptions of Microlepidoptera (2). Treubia 19: 483-524. Sept. 1948. 410 T72
- Includes new species and forms in *Zacorisca*, *Isotenes*, *Neocalyptis*, *Epapage*, *Homona*, *Cacoecia*, *Syndemis*, *Eboda*, *Protypanthes*, and *Schoenotenes*.
- 29096 DIAKONOFF, A. A short report on the damage caused to lepidopterology during and after the Pacific War in Java and Malaya. Lepidopterists' News 2: 79. Oct. 1948. 421 L554
- 29097 DICKSON, C. G. C. The life-history of *Phasis pyrois* Trim. (Lepidoptera: Lycaenidae). Ent. Soc. South. Africa J. 11: 50-62. Sept. 30, 1948. 420 En86
- 29098 DILLON, L. S. The tribe Catagrámini (Lepidoptera: Nymphalidae). I. The genus *Catagramma* and allies. Reading, Pa. Pub. Mus. and Art Gallery. Sci. P. 8, 113 p. 1948. 500 R22
- Includes new spp. and forms, and new genera *Paulogramma* and *Catacore*.
- 29099 DUFRANE, A. Papillons et superstition. Nat. de Mons et du Borinage. B. Mens. 29/30: 70-71. 1946/47. 410.9 N212
- 29100 EASTON, N. T. *Pieris napi*, L. ab. rotunda, ab. nov. Ent. Rec. & J. Variation 60: 121-122. Dec. 1948. 421 En89
- 29101 EBBUTT, H. T. A new pest. Amateur Gard. 65(3368): 13. Nov. 30, 1948. 80 Am13
- Frosted orange moth (*Gortyna flavago*) on *Chrysanthemum*.
- 29102 ENE, M. Strong damages produced by the caterpillars of *Tortrix viridana* L. (In Romanian.) Rev. Padurilor 63: 149-150. July/Aug. 1948. 99.8 R327
- French summary.
- 29103 FIELD, W. D. The correct name for the North American butterfly variously called *Nymphidia*, *Calephelis* or *Lephelisca* (Lepidoptera, Riodinidae). Ent. Soc. Wash. Proc. 50: 207-213. Nov. 1948. 420 W27
- 29104 FIFE, L. C. Studies of the diapause in the pink bollworm [*Pectinophora gossypiella*] in Puerto Rico. U. S. D. A. Tech. B. 977, 26 p. Ref. Jan. 1949. 1 Ag84Te
- 29105 FUKUSHIMA, I. Noctuidae of Micronesia (Lepidoptera). Mushi 18: 1-22. Ref. Sept. 25, 1947. 421 M97
- 29106 GILBERT, F. A., CHRIST, E. G., and DRIGGERS, B. F. Crown borer [*Bembecia marginata*] control on blackberry. Hort. News 30: 2116-2117. Jan. 1949. 81 N46
- 29107 GOULD, E. Control measures for leaf roller [*Argyrotaenia velutinana*], red mite [*Paratetranychus pilosus*]. Va. Fruit 37: 40-49. Jan. 1949. 81 V81B
- 29108 GUNDERSON, H. Garden webworm [*Loxostege similalis*], Iowa, 1947. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 36-37. 1948. 423.9 Am32
- 29109 HAGGETT, G. *Cerastis rubricosa* and *Orthosia incerta*: unusual food-plants. Entomologist 81: 280. Dec. 1948. 421 En8
- 29110 HARMAN, S. W. The red-banded leaf roller [*Argyrotaenia velutinana*] as an apple pest in New York. N. Y. (State) Agr. Expt. Sta. B. 733, 23 p. May 1948. 100 N48
- 29111 HARRISON, J. W. H. The chaffinch taking larger Lepidoptera. Entomologist 81: 287. Dec. 1948. 421 En8
- 29112 HARRISON, J. W. H. The flowers frequented by *Coenonympha tullia* var. *scotica*. Entomologist 81: 286. Dec. 1948. 421 En8
- 29113 HARRISON, J. W. H. Lepidopterous ova deposited on bare rock faces. Entomologist 81: 287. Dec. 1948. 421 En8
- Eggs of *Philudoria potatoria* and *Saturnia pavonia*.
- 29114 HARRISON, J. W. H. A new race of *Coenonympha pamphilus*, L., from the Hebrides. Ent. Rec. & J. Variation 60: 111-112. Nov. 1948. 421 En89
- 29115 HARRISON, J. W. H. Two geometrid moths new to the Isle of Rhum. Entomologist 81: 286. Dec. 1948. 421 En8
- Plemyria bicolorata*; *Venusia cambrica*.
- 29116 HEADSTROM, R. Winter butterflies. Horticulture 27: 20-21. Jan. 1949. 80 H787
- 29117 HERWARTH VON BITTENFELD, H. W. Have *Colias croceus* Fourcr. and the varieties of the helice group different flight hours? (In Dutch.) Ent. Ber. 12: 249. July 1, 1948. 420 N38B
- 29118 HESSEL, S. A. New Jersey *Rhopalocera*-*Strymon* cecrops Fabr. N. Y. Ent. Soc. J. 56: 243-244. Dec. 1948. 420 N48J
- 29119 HOCKEY, K. C. Codlin moth [*Carpocapsa pomonella*] control; methods that supplement spraying. New Zeal. Gard. 5: 270-272. Dec. 1, 1948. 80 N4822
- 29120 HUARD, G. Une localité intéressante du Morvan. Rev. Franç. de Lépidoptérologie 11: 359-363. Sept. 1948. 421 P192
- 29121 HYDE, G. E. An unusual *Carterocephalus palaemon*. Entomologist 81: 287. Dec. 1948. 421 En8



- 29122 JOHNSON, G. V. Tests with new materials against the tomato fruitworm [*Heliothis armigera*]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 80-81. 1948. 423.9 Am32
- 29123 JOUGAN, E. La lutte contre les chenilles au cours de l'hiver. Monit. Agr. 2(52): 13. Jan. 9, 1949. 14 M744
- 29124 KIRIAKOFF, S. G. Report on war damage in Europe. III. Lepidopterists' News 2: 80. Oct. 1948. 421 L554
- Lepidoptera collections in France and Belgium.
- 29125 KULASH, W. M. Dust treatments for fall armyworm [*Laphygma frugiperda*] control in North Carolina. J. Econ. Ent. 41: 822-823. Oct. 1948. 421 J822
- Tests on field crops and lawns.
- 29126 LANGFORD, G. S. What 1948 taught Maryland canners about corn borer [*Pyrausta nubilalis*] control. Canner 108(3): 24, 26. Jan. 15, 1949. 286.83 C16
- 29127 LE CHARLES, L. Sur le comportement d'une chenille de *Cucullia lactucae* Esper (Lépidopt. Noctuidae). Rev. Franç. de Lépidoptérologie 11: 355-356. Sept. 1948. 421 P192
- 29128 LE MARCHAND, S. Sur une particularité biologique inédite chez une espèce nouvelle de *Stigmella* (Nepticula). Rev. Franç. de Lépidoptérologie 11: 347-349. Sept. 1948. 421 P192
- Pupation behavior of *S. phyllotomella*.
- 29129 LEMPKE, B. J. Control of molds in rearing [lepidopterous larvae]. (In Dutch.) Ent. Ber. 12: 291-292. Nov. 1, 1948. 420 N38B
- 29130 LORITZ, J. Une curieuse aberration de *Polyommatus escheri* Hb. Rev. Franç. de Lépidoptérologie 11: 364. Sept. 1948. 421 P192
- 29131 MCDUNNOUGH, J. A new race of *Pseudohazis hera* from southern Colorado. N. Y. Ent. Soc. J. 56: 249-250. Dec. 1948. 420 N48J
- Description by B. Rotger.
- 29132 MATHERS, W. G. Spruce budworm [*Choristoneura fumiferana*]. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(5): 3. Sept./Oct. 1948. 423.92 C16F
- British Columbia.
- 29133 MAY, A. W. S. The light brown apple moth [*Tortrix postvittana*]. Queensland Agr. J. 67: 212. Oct. 1948. 23 Q33
- 29134 MIEGE, E. Protégeons nos graines contre la sésamie. Inform. Maroc. (n. s.) 15(342): 1. Aug. 2, 1947. 281.8 In3
- Sesamia vutera* and *Pyrausta nubilalis*.
- 29135 MOLINA, C. Las plagas que afectan al maíz. Campo [Tacuba] 16(682): 4-6, 8-10, 12, 14, 16-21. Dec. 31, 1948. 8 C157
- Cutworms and *Heliothis armigera*, and their control.
- 29136 MORRISON-GODFREY, P. W. Butterflies of South Bihar. Bombay Nat. Hist. Soc. J. 47: 644-651. Aug. 1948. 513 B63
- 29137 MUSPRATT, V. A propos de *Colias hyale*. Rev. Franç. de Lépidoptérologie 11: 363-364. Sept. 1948. 421 P192
- 29138 NABOKOV, V. A new species of *Cyclargus* Nabokov (Lycaenidae, Lepidoptera). Entomologist 81: 273-280. Dec. 1948. 421 En8
- 29139 NEWMAN, L. H. Concerning caterpillars. Nature Lover 6(1): 23-29. Jan. 1949. 410 N218
- 29140 NOTLEY, F. B. The Leucoptera leaf miners of coffee on Kilimanjaro. I. *Leucoptera coffeella*, Guér. B. Ent. Res. 39: 399-416. Dec. 1948. 421 B87
- 29141 OWEN, A. H. Paucity of butterflies in 1948. Entomologist 81: 285. Dec. 1948. 421 En8
- In Great Britain.
- 29142 PARK, O. Observations on the migration of monarch butterflies [*Danaus plexippus*] through Evanston, Illinois, in September, 1948. Nat. Hist. Misc. 30, 8 p. Oct. 21, 1948. 500 C43Na
- 29143 PASTRANA, J. A. Una mariposita perjudicial para nuestros pinares: *Rhyacionia buoliana* (Schiffermüller). Campo y Suelo Argentino 32(385): 60-61, 70. Nov. 1948. 9 C15
- 29144 PATCH, L. H., and DEAY, H. O. Effect of plant development on resistance of corn hybrids to European corn borer [*Pyrausta nubilalis*]. J. Econ. Ent. 41: 766-769. Oct. 1948. 421 J822
- 29145 PETTY, H. B. How to decide when it will pay to treat [for *Pyrausta nubilalis*]. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 29-30. 1948. 423.9 Am32
- 29146 PHILLIPS, G. L., and BODENSTEIN, W. G. A successful large-scale experiment in methyl bromide fumigation of bulk cottonseed for pink bollworm [*Pectinophora gossypiella*] control. J. Econ. Ent. 41: 804-805. Oct. 1948. 421 J822
- 29147 PICARD, J. Notes sur trois *Pyrgus* asiatiques du sous-genre *Scelotrix* (Lep. Hesperidae). Soc. Ent. de France B. 53: 114-118. Oct. 27, 1948. 420 F84B
- 29148 PICARD, J. Les variations géographiques européennes d'*Ochlodes venatum* Bremer et Gray. Rev. Franç. de Lépidoptérologie 11: 338-340. Sept. 1948. 421 P192
- 29149 POIVRE, R. Notes sur quelques espèces capturées au plateau d'Assy (Haute-Savoie). Rev. Franç. de Lépidoptérologie 11: 344-347. Sept. 1948. 421 P192
- 29150 REMINGTON, C. L. Principles of taxonomy. V. Natural and artificial classification. Lepidopterists' News 2: 102. Dec. 1948. 421 L554
- 29151 REMINGTON, C. L. Procedure in taxonomy. IV. Symbols. Lepidopterists' News 2: 78. Oct. 1948. 421 L554
- 29152 RICHMOND, H. A. Western hemlock looper [*Lambdina fuscicollis* lugubrosa]. Canada. Sci. Serv. Div. Ent. Forest Inst. Invest. Bi-monthly Prog. Rpt. 4(5): 3. Sept./Oct. 1948. 423.92 C16F
- 29153 RINGS, R. W. Timing DDT applications for oriental fruit moth [*Grapholitha molesta*] control. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 102-103. 1948. 423.9 Am32
- 29154 RIOUX, G. Comparative efficiency of various insecticides as tobacco cutworm poisons in Quebec. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 45-47. 1948. 420 On8
- Tests with Paris green, sodium fluosilicate, DDT, benzene hexachloride, and sabadilla.
- 29155 ROGERS, W. P., and GREY, L. P. *Boloria montinus* on the Mount Washington carriage road. Lepidopterists' News 2: 86. Oct. 1948. 421 L554
- 29156 ROHM AND HAAS COMPANY. Profits can be increased by control of tomato hornworms [*Protoparce quinquemaculata*], corn earworms [*Heliothis armigera*], and borers. Philadelphia, 1948. Folder. 423 R63
- Use of Rhothane (DDD).
- 29157 RUSSWURM, A. D. A. Butterflies of 1948. Nature Lover 5: 545-547. Dec. 1948. 410 N218
- 29158 SCHMITZ, G. Insecticides à base de D. D. T. B. Agr. du Congo Belge 39: 855-862. Dec. 1948. 24 K83
- Tests with *Platoeceticus*, *Dichocrocis crocodora* and *Helopeltis bergrothi*.
- 29159 SCHNACK, F. Das leben der schmetterlinge. n. p., 1947. 207 p. 430 Sch5Ag
- 29160 SCHNEIDER, C. L., and CHRISTENSEN, J. J. Relation of the European corn borer [*Pyrausta nubilalis*] to stalk rots of corn. (Abs.) Phytopathology 39: 21. Jan. 1949. 464.8 P56
- 29161 SCHOLTEN, L. H. *Celerio euphorbiae* L. in the summer of 1947. (In Dutch.) Ent. Ber. 12: 267-270. Sept. 1, 1948. 420 N38B
- 29162 SEVASTOPULO, D. G. The colour relationship between certain pupae and their surroundings. Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 23: 93-95. Dec. 28, 1948. 420 L84Pa
- Observations on *Papilio polytes*, *P. demoleus*, and *Danaus chrysippus*.
- 29163 SEVASTOPULO, D. G. Local lists of Lepidoptera from the Punjab and U. P. Bombay Nat. Hist. Soc. J. 47: 586-593. Aug. 1948. 513 B63
- 29164 SLOT, J. *Cossus cossus* caterpillars in an old wagon wheel. (In Dutch.) Ent. Ber. 12: 280. Sept. 1, 1948. 420 N38B
- 29165 SMITH, J. H., and CALDWELL, N. E. H. Army worm and other noctuid outbreaks during 1946-47. Queensland. Div. Plant Indus. Pam. 119, 6 p. 1947. 423.92 Q3P
- Cirphis unipuncta*; *Laphygma exempta*; *Agrotis ypsilon*.
- 29166 STOCKWELL, R. E. Corn borer [*Pyrausta nubilalis*]. Farm Q. 3(4): 76-81, 118, 120-123. Winter 1948. 6 F22995
- 29167 STOFBERG, F. J. Larval structure as a basis for certain identification of false codling moth [*Argyroplote leucotreta*, Meyr.] larvae. Ent. Soc. South. Africa J. 11: 68-75. Sept. 30, 1948. 420 En86
- 29168 SWEADNER, W. R. Important collections. I. Lepidoptera in the Carnegie Museum. Lepidopterists' News 2: 80. Oct. 1948. 421 L554



## ORTHOPTERA

- 29169 TISSOT, A. N., and KUITERT, L. C. Insecticide tests for the control of fall armyworm [*Laphygma frugiperda*] on corn. Fla. Ent. 31: 105-112. Dec. 1948. 420 F662
- 29170 TOUMANOFF, C. Une épizootie mortelle chez les chenilles de fausses teignes des ruches, *Achroia grisella* Fabr. et *Galleria mellonella* L., due à *Coelogregarina ephestiae* Ghél. Paris. Acad. des Sci. Compt. Rend. 227: 1274-1276. Dec. 8, 1948. 505 P21
- 29171 TOXOPEUS, L. J. Notes on Lymantriidae, with a partial revision of the genus *Redoa* Wlk. (Lepid. Heteroc.) (Results of the Third Archbold Expedition 1938-1939). Treubia 18: 429-481. Sept. 1948. 410 T72
- Includes new species and forms in Lymantria, Imaus, *Redoa*, *Pronygmia* n. g., *Micronygmia* n. g., and *Xanthonygmia* n. g. Also the new genera: *Psilochira*, *Imaidea*, *Miccotroga*, and *Bradytera*.
- 29172 TURCEK, F. J. Birds in an oak forest during a gypsy moth [*Porthetria dispar*] outbreak in South-Slovakia. Amer. Midland Nat. 40: 391-394. Sept. 1948. 410 M58
- 29173 TURNER, H. J. The British Noctuae [i. e. Phalaenidae] and their varieties. IV. (Cont.) Ent. Rec. & J. Variation 60(11, sup.): 33-40; (12, sup.): 41-42. Nov.-Dec. 1948. 421 En89
- 29174 VARIN, G. Quelques aberrations de *Melanargia galathea* L. de la région parisienne. Rev. Franç. de Lépidoptérologie 11: 356-359. Sept. 1948. 421 P192
- 29175 VERHEY, C. J. Faunistic notes on Lepidoptera. (In Dutch.) Ent. Ber. 12: 252. July 1, 1948. 420 N38B
- Araschnia levana*; *Daphnis nerii*.
- 29176 VIETTE, P. Contribution à l'étude des Micropterygidae (2<sup>e</sup> note). Descriptions des genitalia mâles de quelques espèces de Micropteryx. Rev. Franc. de Lépidoptérologie 11: 340-344. Sept. 1948. 421 P192
- 29177 VIETTE, P. Les Ophideres du Pacifique (Lépid. Noctuidae). Rev. Franc. d'Ent. 15: 209-220. Ref. 1948. 421 R323
- 29178 WALKDEN, H. H., and WHITE, G. D. Status of the southwestern corn borer [*Diatraea grandiosella*] in Kansas and Oklahoma, fall 1948. U. S. Bur. Ent. and Plant Quar. Spec. Sup. 1948(8), 2 p. Dec. 28, 1948. 1.9 En831B
- 29179 WASON, E. J., and LLOYD, N. C. DDT and codling moth [*Carpocapsa pomonella*] control. Agr. Gaz. N. S. Wales 59: 538-540. Oct. 1948. 23 N472
- 29180 WEIDMANN, M. An interesting abnormality in a polyphemus moth [*Telea polyphemus*]. Nat. Hist. Misc. 31, 2 p. Oct. 21, 1948. 500 C43Na
- 29181 WELLINGTON, W. G., and HENSON, W. R. Notes on the effects of physical factors on the spruce budworm, *Choristoneura fumiferana* (Clem.). Canad. Ent. 79: 195. Cont. Nov./Dec. 1947. 421 C16
- 29182 WHITE, E. B. *Amathes c-nigrum*, Linn., pairing with *A. xanthographa*, Fabr. Ent. Rec. & J. Variation 60: 117. Nov. 1948. 421 En89
- 29183 WHITE, E. B. Unusual food of *Sphinx ligustri*, Linn. Ent. Rec. & J. Variation 60: 117. Nov. 1948. 421 En89
- On *Spiraea*.
- 29184 WRESSELL, H. B. Further observations on insecticidal control of the European corn borer, *Pyrausta nubilalis* Hbn., in southwestern Ontario in 1947. Ontario Ent. Soc. Ann. Rpt. (1947) 78: 10-14. 1948. 420 On8
- 29185 WRIGHT, S. On the roles of directed and random changes in gene frequency in the genetics of populations. Evolution 2: 279-294. Ref. Dec. 1948. 443.8 Ev62
- Studies on a population of *Panaxia dominula*.
- 29186 ZIMMERMAN, C. Orchard huntress. Cap-fer's Farmer 60: 30. Jan. 1949. 6 M693
- Collecting codling moth larvae for use in testing new insecticides.
- 29187 ZUNINO, H. La oruga de la hoja, Alabama argillacea Hubner. Campo y Suelo Argentino 32(385): 34-35, 59. Nov. 1948. 9 C15
- 29188 ARGENTINA. INSTITUTO DE SANIDAD VEGETAL. Revisión bibliográfica sobre la generación estival de *Schistocerca cancellata* (Serville), la langosta migradora de America del Sur. Buenos Aires. 13 p. 429 Ar37
- 29189 ARGENTINA. MINISTERIO DE AGRICULTURA. Organización interamericana de lucha contra la langosta. Buenos Aires, 1948. 54 p. 429 Ar30
- Formation of the Comité Interamericano Permanente Antiacridiano.
- See also Sericulture and the Silkworm.
- 29190 BALOGH, J. Quantitative methods in collecting grasshoppers. Arch. Biol. Hungar. (Ser. 2) 17: 48-50. 1947. 442.9 M27
- 29191 BANFIELD, G. L. Success of poison baits in eradicating crickets. New Zeal. J. Agr. 77: 569-571. Dec. 1948. 23 N48J
- 29192 BLAIR, K. G. The egg of *Conocephalus dorsalis* Latr. (Orthopt., Tettigoniidae) and its parasite [*Centrodora amoena* or *Thysanus ater*?]. Ent. Monthly Mag. 84: 276-277. Dec. 1948. 421 En86
- 29193 BODINE, J. H., and FITZGERALD, L. R. The copper content of an egg and its distribution during the development of the embryo [of *Melanoplus differentialis*] (Orthoptera). J. Expt. Zool. 109: 187-195. Nov. 1948. 410 J825
- 29194 CHAPMAN, K. H. *Roeseliana roeselii* (Hagenb.) var. *diluta* (Charp.) (Orth., Tettigoniidae) at Flatford, Suffolk. Ent. Monthly Mag. 84: 259. Nov. 1948. 421 En86
- 29195 COLEMAN, L. C. The cytology of some western species of Trimerotropis (Acrididae). Genetics 33: 519-528. Ref. Nov. 1948. 442.8 G28
- 29196 EGYPT. MINISTRY OF AGRICULTURE. The desert locust "*Schistocerca gregaria*." Cairo, 1948. 5 p. 429 Eg9D
- 29197 GEITHMANN, H. Insect gladiators. Fauna [Philadelphia] 10: 109-111. Dec. 1948. 410 F27
- Chinese pet crickets.
- 29198 GOLDING, F. D. The Acrididae (Orthoptera) of Nigeria. Roy. Ent. Soc. London, Trans. 99: 517-587. Ref. Dec. 28, 1948. 420 L84
- 29199 GUNN, D. L., and others. Behaviour of the desert locust (*Schistocerca gregaria* Forskål) in Kenya in relation to aircraft spraying. Brit. Mus. (Nat. Hist.) Anti-Locust B. 3, 70 p. Ref. 1948. 420 B772A
- F. C. Perry, W. G. Seymour, T. M. Telford, E. N. Wright, and D. Yeo, joint authors.
- 29200 GUNN, D. L. Locust control by aircraft in Tanganyika; an experimental campaign with BHC (benzene hexachloride) and DNOC (dinitro-ortho-cresol) solutions against adult red locust, *Nomadacris septemfasciata* (Serv.), in an outbreak area, the Rukwa Valley, from August to November 1947. Johannesburg, 1948. 153 p. 429 G95
- 29201 HALL, D. G. Caution! Hoppers ahead. Farm J. 73(2): 48, 50. Feb. 1949. 6 F2212
- Control with toxaphene and chlordane.
- 29202 HEINOLD, K. E. Goodbye, cockroaches! South. Agr. 77, i. e., 78(11): 17, 45. Nov. 1948. 6 So83
- Control with DDT and chlordane.
- 29203 ISELY, F. B., and ALEXANDER, G. Analysis of insect food habits by crop examination. Science 109: 115-116. Feb. 4, 1949. 470 Sci2
- Orthoptera.
- 29204 JOHNSON, S. T. Birth of the praying mantis. Turtux News 26: 180-182. Aug. 1948. 442.8 T86
- Series of photographs.
- 29205 KALSHOVEN, L. G. E. Additional data on the occurrence in Indonesia of oriental migratory locust [*Locusta migratoria manilensis* Meyen]. (In Dutch.) Landbouw 20: 349-364. Ref. Sept./Oct. 1948. 22.5 L23
- English summary.
- 29206 KORSKOFF, N. Sur un *Tarachodes* du Sahara Central (*T. gilvus* Charp., Orthoptéroïdes Mantidae). Soc. d'Hist. Nat. de l'Afrique du Nord, B. 38(1/9): 49-50. Jan./Dec. 1947. 410.9 So125
- 29207 MACKERRAS, I. M., and POPE, P. Experimental *Salmonella* infections in Australian cockroaches. Austral. J. Expt. Biol. & Med. Sci. 26: 465-470. Nov. 1948. 442.8 Au7
- Tests with *Periplaneta australasiae*, *P. ignota*, *Supella supellectilium*, and *Nauphoeta cinerea*.
- 29208 PUTNAM, L. G. Note on the disappearance of dead grasshoppers from sites of application of control measures. Canad. Ent. 79: 225-226. Nov./Dec. 1947. 421 C16
- Insects, mammals and birds act as scavengers.
- 29209 RAMBIER, A. M. Deux Orthoptères nouveaux pour la faune corse (Tettigoniidae Decticinae). Soc. Ent. de France B. 53: 124-125. Oct. 27, 1948. 420 F84B
- Pholidoptera schmidtii*; *P. femorata*.



- 29210 RAMME, W. *Schizonotinus*, a most curious new genus from the Caucasus (Orthoptera, Tettigoniidae). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 133-136. Dec. 15, 1948. 420 L84Pb
- 29211 REHN, J. A. G. A previously unrecognized genus of katydids [Phyllopectis] (Orthoptera, Tettigoniidae, Pseudophyllinae) from the Lesser Antilles. Notulae Nat. 203, 5 p. Mar. 24, 1948. 500 P53No
- 29212 ROBERTS, L. Aerial war on locusts. Indian Farming 9: 317-318. July 1948. 22 In283  
International campaign of control.
- 29213 ROEHRICH, R. Sur l'absence de diapause embryonnaire chez certains individus de *Locusta migratoria* L. dans les Landes de Gascogne. Paris. Acad. des Sci. Compt. Rend. 227: 1116-1117. Nov. 22, 1948. 505 P21
- 29214 ROSE, M., HAMON, M., and BOISSON, C. Le tissu sécréteur des corpora cardiaca de *Bacillus rossii*, Fabricius (Orthoptère phasmide). Soc. d'Hist. Nat. de l'Afrique du Nord, B. 38(1/9): 58-62. Jan./Dec. 1947. 410.9 Sol25
- 29215 SHANE, P. A new species of *Teinophaeus* (Cyrtacanthacridinae: Acrididae: Orthoptera) from Mexico. Notulae Nat. 201, 3 p. Jan. 16, 1948. 500 P53No
- 29216 SLIFER, E. H. Isolation of a wax-like material from the shell of the grasshopper egg. Faraday Soc. Discuss. 1948(3): 182-187. 382 F22D
- 29217 UVAROV, B. P. How a grasshopper becomes a locust. New Biol. 3: 9-27. 1947. 442.8 J63  
Solitary and gregarious phases of *Locusta migratoria*.
- 29218 VILARDEBO, A. Un ennemi important des cultures fruitières tropicales, *Zonocerus variegatus* L. Fruits d'Outre Mer 3: 324-329. Oct. 1948. 80 F9492
- 29219 VOY, A. Sur la croissance des pattes de la blatte (*Blatta orientalis* L.). Paris. Acad. des Sci. Compt. Rend. 228: 207-208. Jan. 10, 1949. 505 P21
- 29220 WAKELAND, C., and PARKER, J. R. Grasshopper control improved by new insecticides. U. S. Bur. Ent. and Plant Quar. EC-7, 8 p. Feb. 1949. 1.967 A2Ec1
- 29221 WEINMAN, C. J. Recent advances in grasshopper [Melanoplus differentialis] control. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 21. 1948. 423.9 Am32

#### SERICULTURE AND THE SILKWORM

- 29222 ARGENTINA. DIVISION DE SERICICULTURA. Instrucciones para la cría del gusano de seda y cultivo de la morera. Argentina. Dir. de Inform. P. Misc. 297, 62 p. 1948. 9 P943
- 29223 CALVAS, R. La sériciculture dans le Département du Gard. Potasse 22: 184-186. Nov. 1948. 57.8 P84
- 29224 HOLEC, E. Was benötigt der seidenbauer zur durchführung einer aufzucht? Österr. Kleintierzüchter 1948: 491-492. Dec. 1948. 49 Os7
- 29225 HUBER L., G. La cría del gusano de seda [*Bombyx mori*]. Rev. Ganad. [Habana] 9(1): 14, 30. Jan. 1949. 49 R321
- 29226 OWENS, W. H. Seda en un castillo inglés. Nuestros Amigos 5(52): 22-23. Sept. 1948. 48.8 N88
- 29227 RAPALLO ABAD, J. El gusano y la seda. Ceres [Valladolid] 12(150): 15. Dec. 1, 1948. 15 C33  
*Bombyx mori*.
- 29228 TRUJILLO PELUFFO, A. Algunos consejos sobre la cría del gusano de seda [*Bombyx mori*]. Uruguay. Min. de Ganad. y Agr. B. Inform. 245: 15. Nov. 18, 1948. 9.9 G15B

#### SMALLER ORDERS

- 29229 ASAHINA, S. Description of a new damselfly [*Copera tokyoensis*] from Tokyo (Odonata, Platycneminae). Mushi 18: 103-106. Aug. 30, 1948. 421 M97
- 29230 ASAHINA, S. Dragonfly-nymphs collected by Mr. K. Koba in south Manchuria. (In Japanese.) Mushi 18: 59-63. Feb. 10, 1948. 421 M97
- 29231 BAGNALL, R. S. Contributions toward a knowledge of the Isotomidae (Collembola). I-VI. Ann. & Mag. Nat. Hist. (ser. 12) 1: 529-541. Aug. 1948. 410 An77  
Includes *Proisotominae* and *Isotominae*, new sub-families, and the following new genera: *Chisotoma*, *Eosotoma*, *Neosotoma*, *Scutisotoma*, *Scutisotomodes*, *Panchaetoma*, *Vesiculotoma*, *Physurotoma*, *Cranisotoma*, *Pathisotoma*, and *Panurotoma*.
- 29232 BAILEY, N. S. Another record for *Mantispa interrupta* Say. Psyche 55: 183. Dec. 1948. 421 P95
- 29233 BAILEY, S. F. Grain and grass-infesting thrips. J. Econ. Ent. 41: 701-706. Ref. Oct. 1948. 421 J822
- 29234 BANKS, N. Chrysopidae (Nothochrysidae) collected in Mexico by Dr. A. Dampf (Neuroptera). Psyche 55: 151-177. Dec. 1948. 421 P95  
Includes new species in *Chrysopa* and *Meleoma*.
- 29235 BATTE, E. G., and GAINES, J. C. Comparison of DDT and chlordan for the control of the horse louse [*Bovicola equi*]. J. Econ. Ent. 41: 830-831. Oct. 1948. 421 J822
- 29236 BLANC, G. Longue persistance de la virulence du bacille pesteux [*Pasteurella pestis*] chez la puce du rat *Xenopsylla cheopis*, conservée morte a sec. Inst. Pasteur Ann. 75: 569-571. Dec. 1948. 448.3 An75
- 29237 BRUCE, W. N. Studies on the biological requirements of the cat flea [*Ctenocephalides felis*]. Ent. Soc. Amer. Ann. 41: 346-352. Sept. 1948. 420 En82
- 29238 BURKS, B. D. New species of *Ephemera* from Illinois (Ephemeroptera). Canad. Ent. 79: 232-236. Nov./Dec. 1947. 421 C16
- 29239 CLAY, T. A preliminary key to the genera of the Menoponidae (Mallophaga). London. Zool. Soc. Proc. 117: 457-477. Ref. Oct. 1947. 410.9 L84P
- 29240 CRAWFORD, J. C. A new Parallothrips from Cyprus (Thysanoptera, Phlaeothripidae). Ent. Soc. Wash. Proc. 50: 213-215. Nov. 1948. 420 W27
- 29241 CUFF, R. L. Cattle louse control with one application. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 50-52. 1948. 423.9 Am32
- 29242 DENNING, D. G. New species of Trichoptera. Ent. Soc. Amer. Ann. 41: 397-401. Sept. 1948. 420 En82  
In *Orthotrichia*, *Oxyethira*, *Hydropsyche*, *Cheumatopsyche*, and *Limnephilus*.
- 29243 DEROUX-STRALLA, D. Recherches expérimentales sur le rôle des "glandes ventrales" dans la mue et la métamorphose, chez *Aeschna cyanea* Müll. (Odonata). Paris. Acad. des Sci. Compt. Rend. 227: 1277-1278. Dec. 8, 1948. 505 P21
- 29244 EADS, R. H., and MENZIES, G. C. An undescribed *Anomiopsyllus* Baker from the pack rat, *Neotoma micropus* Baird. Kans. Ent. Soc. J. 21: 133-136. Oct. 1948. 420 K13
- 29245 EICHLER, W. *Acutifrons chimango*, nova species Mallophagorum. (In German.) Rev. de Ent. 19: 581-583. Dec. 1948. 421 R326
- 29246 EICHLER, W. Some rules in ectoparasitism. Ann. & Mag. Nat. Hist. (ser. 12) 1: 588-598. Ref. Aug. 1948. 410 An77  
The rules of Fahrenholz and Szidat, together with the author's "divergence" rule, illustrated by relations of Mallophaga and their hosts.
- 29247 EMERSON, K. C. Notes on the Menoponidae of North America. II. Canad. Ent. 79: 209-216. Nov./Dec. 1947. 421 C16  
Includes new species in *Machaerilaemus*.
- 29248 EMERSON, K. C. Two new species of Mallophaga. Kans. Ent. Soc. J. 21: 137-140. Oct. 1948. 420 K13  
*Lagopoecus obscurus*; *Colinicola mearnsi*.
- 29249 FINNEY, G. L. Culturing *Chrysopa* californica and obtaining eggs for field distribution. J. Econ. Ent. 41: 719-721. Oct. 1948. 421 J822
- 29250 GIL COLLADO, J. Las especies españolas de Afanípteros. Eos 24: 247-256. June 30, 1948. 421 Eo7  
Includes new forms in *Chaetopsylla* and *Monopsyllus*.
- 29251 GRASSÉ, P. P., and NOIROT, C. La biologie et les constructions du termitte *Apicotermes arquieri* n. sp. Paris. Acad. des Sci. Compt. Rend. 227: 735-736. Oct. 11, 1948. 505 P21
- 29252 GUIMARÃES, L. R. Notes on Microctenia (Menoponidae - Mallophaga) and description of a new sub-species. (In Portuguese.) São Paulo. Dept. de Zool. Papéis Avulsos 8: 197-202. Aug. 23, 1947. 410.9 Sa63  
English summary.
- 29253 HARKEMA, R., and KARTMAN, L. Observations on the helminths and ectoparasites of the cotton rat, *Sigmodon hispidus hispidus* Say and Ord, in Georgia and North Carolina. Elisha Mitchell Sci. Soc. J. 64: 183-191. Dec. 1948. 500 EL4  
Ectoparasites include *Atricholaelaps glasgowi*, *Derma-centor variabilis*, *Hoplopleura hirsuta*, and five species of fleas.



29254 HARTWIG, E. K. Six new species of South African thysanoptera, with statistical analyses of measurements. Ent. Soc. South. Africa J. 11: 83-126. Sept. 30, 1948. 420 En86

In Elaphrothrips, Bolothrips, Pseudodendrothrips, and Hercinothrips.

29255 HOFFMANN, A. Breve nota acerca de los ectoparasitos de ratas colectadas en los mercados del Distrito Federal. Mex. Inst. de Salubridad y Enferm. Trop. Rev. 9: 81-85. June 1948. 449.9 M572

English summary.

Echinolaelaps echidninus, Liponyssus bacoti, Polyplax spinulosa, Echidnophaga gallinacea, Ctenocephalides felis, C. canis, Xenopsylla cheopis, and Leptopsylla segnis.

29256 HUDSON, G. B. Studies in the comparative anatomy and systematic importance of the hexapod tentorium. III. Odonata and Plecoptera. Ent. Soc. South. Africa J. 11: 38-49. Ref. Sept. 30, 1948. 420 En86

29257 HYNES, H. B. N. The nymph of Anacroneria aroucana Kimmins. (Plecoptera, Perlidae). Roy. Ent. Soc. London, Proc. Ser. A: Gen. Ent. 23: 105-110. Ref. Dec. 28, 1948. 420 L84Pa

29258 KEMPER, H. E., and others. DDT emulsions for the destruction of lice on cattle, sheep, and goats. Amer. J. Vet. Res. 9: 373-378. Oct. 1948. 41.8 Am3A  
N. G. Cobbett, I. H. Roberts, and H. O. Peterson, joint authors.

29259 KENNETT, C. E. Defense mechanism exhibited by larvae of Chrysopa californica Coq. (Neuroptera: Chrysopidae). Pan-Pacific Ent. 24: 209-211. Oct. 1948. 421 P193

29260 KIMMINS, D. E. A new species of Anacroneria (Plecoptera, Perlidae) from Trinidad. Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 105-106. Aug. 16, 1948. 420 L84Pb

29261 LIEFTINCK, M. A. Some species of Gynacantha from Celebes and the Moluccas, with a key and descriptions of two new species (Odon., Aeshnidae). Treubia 19: 417-428. Sept. 1948. 410 T72

29262 MACCHIAVELLO, A. Control de las enfermedades transmitidas por pulgas. Ofic. Sanit. Panamer. B. 27: 1126-1137. Ref. Dec. 1948. 449.9 P192B  
English summary.

29263 MALLAMAIRE, and ROBLOT. Sur l'emploi de l'hexachlorocyclohexane (H. C. H.) et du sulfure de polychlorocyclane (S. P. C.) dans la lutte contre les termites au Soudan Français. Acad. d'Agr. de France. Compt. Rend. 34: 941-942. Nov. 24/Dec. 1, 1948. 14 P215Bc

29264 MALO JUVERA, F., and ORTIZ MARIOTTE, C. Control de enfermedades transmitidas por piojos. Ofic. Sanit. Panamer. B. 27: 1113-1125. Ref. Dec. 1948. 449.9 P192B

English summary.

29265 MEINERTZHAGEN, R., and CLAY, T. List of Mallophaga collected from birds brought to the Society's prosectorium. London. Zool. Soc. Proc. 117: 675-679. Feb. 1948. 410.9 L84P

29266 MILLS, H. B. New North American Tomocerinae [Collembola]. Ent. Soc. Amer. Ann. 41: 353-359. Ref. Sept. 1948. 420 En82

New species in Tomolonus n. g. and Tomocerus.

29267 MILNE, L. J., and MILNE, M. J. Dragonfly man. Nature Mag. 24(1): 17-18, 52. Jan. 1949. 409.6 N214

James G. Needham.

29268 MOSELY, M. E. The genitalia of Ecnomus deceptor McLachlan (Trichoptera). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 103-104. Aug. 16, 1948. 420 L84Pb

29269 MOSELY, M. E. The venation in the genus Hydroptila Dalman (Trichoptera). Roy. Ent. Soc. London, Proc. Ser. B: Taxonomy 17: 107-108. Aug. 16, 1948. 420 L84Pb

29270 PASFIELD, G. Use of DDT for thrips on tomatoes; effect on incidence of spotted wilt. Agr. Gaz. N. S. Wales 59: 604-605. Nov. 1, 1948. 23 N472

29271 PINHEIRO, J. V. Control of underground termites. (In Portuguese.) Chacaras e Quintais 79: 47. Jan. 15, 1949. 9.2 C34

29272 RAPER, R., and SHAW, J. Amino-acids in the haemolymph of the dragon-fly nymph, Aeschna cyanea. Nature [London] 162: 999. Dec. 25, 1948. 472 N21

29273 SCHOOF, H. F. Common ectoparasites of the Norway rat, Rattus norvegicus (Erxl.), in North Carolina and the effects of 10 per cent DDT dust treatments in their control and upon the serology of the rat. Elisha Mitchell Sci. Soc. J. 64: 208-215. Ref. Dec. 1948. 500 EL4  
Fleas (Xenopsylla cheopis, Nosophyllus fasciatus, Leptopsylla segnis, and Echidnophaga gallinacea) controlled; Polyplax spinulosa not controlled.

29274 SMIT, F. G. A. M. Methods for collecting ectoparasitic insects. (In Dutch.) Ent. Ber. 12: 253-258. July 1, 1948. 420 N38B

Collecting fleas and lice from mammals, birds, and nests.

29275 SMITH, W. A. Banana rust thrips [Scirtothrips signipennis] control. Queensland. Div. Plant Indus. Pam. 118, 4 p. 1947. 423.92 Q3P

29276 SOMMERMAN, K. M. Two new Nearctic psocids of the genus Trichadenotecnum with a nomenclatural note on a third species (Corrodentia). Ent. Soc. Wash. Proc. 50: 165-173. Oct. 1948. 420 W27

29277 THOMPSON, G. B. A list of the type-hosts of the Mallophaga and the lice described from them. Ann. & Mag. Nat. Hist. (ser. 12) 1: 335-368. (Cont.) May 1948 pub., Dec. 8, 1948. 410 An77

29278 TSUDA, M. Report on Trichoptera from Shansi, China. Mushi 18: 101-102. Aug. 30, 1948. 421 M97

29279 VERDCOURT, B. Kimminsia rava (With.) (Neur., Hemerobiidae) and other Neuroptera in Bedfordshire. Ent. Monthly Mag. 84: 286. Dec. 1948. 421 En86

29280 VERRIER, M. L. La vitesse du courant et la répartition des larves d'Ephémères. Paris. Acad. des Sci. Compt. Rend. 227: 1056-1057. Nov. 15, 1948. 505 P21

29281 WALKER, L. W. Termites: desert division of street cleaning. Nat. Hist. 58: 44-47. Jan. 1949. 500 N483J

29282 WATSON, E. B. The termite situation in Toronto. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(5): 2. Sept./Oct. 1948. 423.92 C16F

29283 WILCOX, J., and HOWLAND, A. F. DDT dust for control of onion thrips [Thrips tabaci]. J. Econ. Ent. 41: 694-700. Oct. 1948. 421 J822

#### AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

#### GENERAL AND MISCELLANEOUS

29284 AMES, N. T. New rural fire truck at Oregon, Wisconsin. Firemen 16(1): 16. Jan. 1949. 296.68 V88

29285 ANDERSON, K. H. 4-H safety marches on. Farm Safety Rev. 7(1): 3. Jan./Feb. 1949. 449.8 F22

29286 BEST, K., and HILLYER, K. Green thumbs up. Country Gent. 119: 24-25, 65-67. Jan. 1949. 6 C833  
Farm beautification program in Kentucky.

29287 GERSTENBERG, R. Unfälle beim schlepperbetrieb und ihre verhütung. Drescher u. Pflüger 1(2): 3-4. Aug. 15, 1948. 58.8 D81

29288 GRUSSING, B. D. Safe farming. Dakota Farmer 68(24): 5. Dec. 18, 1948. 6 D14

Similar title in Farm Safety Rev. 7: 4-5. Jan./Feb. 1949. 449.8 F22

29289 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Extension agricultural engineering activities. Ill. Agr. Col. Ext. AEng 581, 31 p. Oct. 4, 1948. 275.29 IL62Pa

29290 JORDBRUKSTEKNISKA INSTITUTET. Annual report of the Swedish Institute of Agricultural Engineering 1947-1948. (Budget year 1/7 1947-30/6 1948). (In Swedish.) Jordbrukstek. Inst. Meddel 221, 18 p. 1948. 58.9 J762

29291 KINTZLEY, W. P. Let's dress up the farm. West. Farm Life 50(21): 6. Nov. 1, 1948. 6 R153

29292 LOEWE, F. H. W. Verhütung unfälle bei der bedienung elektrischer geräte. Saat u. Ernte 3(11): 12. Nov. 1948. 18 Sa12



29293 NODINE, E. H., BOICOURT, A. W., and BERGSTROM, E. E. Is your house happy; 4-H home grounds improvement. Conn. Agr. Col. Ext. B. 408, 16 p. Sept. 1948. 275.29 C76B

29294 RAMOS, J. B. Comments on agricultural topography. (In Portuguese.) *Orientação Econ. e Financeira* 6(67): 38-42. Oct. 1948. 280.8 Or42

29295 RAUFER, W. Farm equipment is a highway hazard. *Successful Farming* 46(11): 36-37, 152-153. Nov. 1948. 6 Su12

29296 SAMPIER, J. Practice safe habits in handling live stock to avoid accidents. *Natl. Live Stock Prod.* 27(5): 7. Feb. 1949. 280.38 N21

29297 SLATER, E. J. We are killing off the American farmer. *Farm Safety Rev.* 7(1): 7. Jan./Feb. 1949. 449.8 F22

29298 TURNER, A. W. Power, labor and materials of farming are direct concern of USDA engineers. *Impl. Rec.* 46: 25, 60. Jan. 1949. 58.8 Im73

29299 U. S. DEPT. OF AGRICULTURE. First aid for flooded homes and farms. U. S. D. A. AIS-75, rev., 19 p. Nov. 1948. 1 Ag84Ai

29300 U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Manage farm ponds for bass and bluegills. U. S. D. A. PA-65, 2 p. 1948. 1 Ag84Pro

29301 VIDAL MORA, J. M. La medida local de Menorca como causa de error en la medición superficial agraria. *Balearic Isl. Diputación Prov. B. de Agr.* 1948 (49): 10-11. Oct. 1948. 15 B19

29302 WHEELER, H. N. Farm and range fires. *N. Dak. Outdoors* 11(7): 5, 14. Jan. 1949. 412.9 N815

#### FARM MACHINES AND EQUIPMENT

29303 BALLU, T. Etat de l'avancement en France de la mécanisation appliquée à la betterave sucrière. *Inst. Belge pour l'Amélior. de la Betterave*. P. 16: 271-275. Sept./Oct. 1948. 66.9 In7

29304 BALLU, T. Impressions sur la Semaine de Motoculture de Senlis. *Acad. d'Agr. de France. Compt. Rend.* 34: 899-901. Nov. 10/17, 1948. 14 P215Bc

29305 BEELER, M. N. Cotton's problems. *Cap-per's Farmer* 60: 14, 42. Jan. 1949. 6 M693

29306 BLASINGAME, R. U. New in equipment. *Pa. Farmer* 140: 26-29, 46. Jan. 8, 1949. 6 P383

29307 BRUNINI, V. C. Investigación acerca de la situación actual de nuestra maquinaria agrícola. *Cooperación [Buenos Aires]* 16(1046): 3. Nov. 26, 1948. 280.28 C7876

Also in *Bolsa de Com., Rosario. Rev.* 36(886): 13-16. Dec. 15, 1948. 287 R71

29308 BUDAGOV, A. A. Plank conveyor of heaps to the combine. (In Russian.) *Vsesoŭzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët 1941-1944*: 342-351. 1947. 77.9 K86N

29309 CAHILL, J. C. Dalia farm—American style. *Elect. on the Farm Mag.* 22(1): 6-7. Jan. 1949. 335.8 EL27

Electrical equipment used.

29310 CERVI, B. A useful apparatus. (In Italian.) *Avvenire Agr.* 56: 281. Nov. 1948. 16 Av9

Frost alarm signal.

29311 CHANSLER, W. S. Rope—its uses on the farm. *Rural New-Yorker* 99: 2, 26. Jan. 1, 1949. 6 R88

29312 CHERRINGTON, J. O. The time to plan is now. *Farmer & Stock-Breeder* 62: 34. Jan. 4, 1949. 10 F228

Mechanization in Great Britain.

29313 COMBAL, H. Le machinisme agricole algérien et le plan Marshall. *Voix des Colons* 31(1487): 1. Jan. 17, 1949. 24 V85

29314 EDMISTON, J. D. Progress of machine harvest at Greeley and Eaton. *Through Leaves* 26, i. e. 36 (6): 45-46. Nov./Dec. 1948. 66.8 T41

29315 FAHRINGER, F. Unsere österreichische landmaschinenindustrie. *Salzberg. Bauer* 3(52/53): 7; 4(2): 3-5. Dec. 23, 1948, Jan. 13, 1949. 19 Sa3

29316 FISCHER, K. H. Agrarpolitische forderungen an die landtechnik. *Landtechnik* 3: 437-438. Nov. 30, 1948. 58.8 L235

29317 FLEMING, R. Sweet news for sugar beet growers. *Crops & Soils* 1(3): 18-20. Dec. 1948. 6 W55

Chiefly equipment.

29318 GILLING, A. T. The European picture for the year ahead. Continental recovery of farm machinery production slow, but British output is the highest ever. *Impl. & Tractor* 64(1): 65, 161-164. Jan. 8, 1949. 58.8 W41

29319 GRANDIN, P. Le paysan français et la motorisation. *Foyer Rur. [Montreal]* 8(5): 9. Feb. 1949. 7 F83

29320 GRODER, J. Was der bergbauer von der technik wünscht! *Landtechnik* 1: 382-383. Dec. 1948. 58.8 L236

29321 HAGUERUE, H. D'. L'avenir de la motoculture dans l'Ouest de la France. *Paysan d'Ille-et-Vilaine* 4(42): 1. Jan. 15, 1949. 14 P293

29322 HANSEN, W. F. Nurseries and machinery. (In Danish.) *Gart.-Tid.* 64: 617-623. Dec. 22, 1948. 80 G192

29323 INTERNATIONAL HARVESTER COMPANY. 100 years in agriculture and industry, 1847-1947. Chicago, 1947? 31 p. 309 In83

29324 KALVERKAMP, U. D. Agricultural mechanization in the Netherlands. (In Afrikaans.) *Boer en Tuinder* 2(87): 9. Sept. 1948. 12 B632

29325 KAZAKOV, M. I. Plank conveyor of a combine's header. (In Russian.) *Vsesoŭzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchët 1941-1944*: 336-341. 1947. 77.9 K86N

29326 KÜHN, F. Die lage im landmaschinenbau. *Landtechnik* 3: 377-379. Oct. 31, 1948. 58.8 L235

29327 LALLOY, M. Le Plan Marshall et l'équipement rural. *Génie Rural* 41: 279-281. Oct. 1948. 58.8 Au8

29328 LEWIS, R. D. Challenges of mechanization to our experiment stations. *Tex. Co-op. News* 28(9): 2, 8. Dec. 15, 1948. 72.9 T315F

29329 MCCLAY, D. R. Charting the course in farm mechanics. *Agr. Ed. Mag.* 21: 161-162. Jan. 1949. 275.8 Ag8

29330 MCCULLOUGH, W. B. Mechanization of agriculture in Argentina. *Overseas Rpt. Agr. Dvlpmt.* 22, 2 p. Jan. 1949. 281.9 C1642O

29331 MCMILLEN, W. 1949 farm equipment needs of farmers. *Impl. & Tractor* 64(1): 60, 180-181. Jan. 8, 1949. 58.8 W41

29332 MAIER, E. A. Mechanization of the Louisiana sugarcane fields. III. *Sugar Indus.* 2(6): 26-35. Nov./Dec. 1948. 65.8 Su332

Text also in Spanish.

29333 MANDELLI, M. Agricultural and technical reform. (In Italian.) *Macch. e Motori Agr.* 6: 599-604. Dec. 1948. 58.8 M13

29334 MARSH, R. E. Should the small-acreage grower purchase a harvester? *Through Leaves* 26, i. e. 36(6): 35-36. Nov./Dec. 1948. 66.8 T41

29335 MARTIN-LEAKE, H. Mechanization in sugar cane fields. *Internatl. Sugar J.* 51: 12-14. Jan. 1949. 65.8 In8

29336 MATSKEVICH, S. Technical basis of agriculture in the transition period from socialism to communism. (In Russian.) *Voprosy Ekonom.* 1948(5): 37-50. 1948. 280.8 V89

Mechanization and electrification policies in U. S. S. R.

29337 MENDOZA GOITICOA, E. Informe sobre el proyecto de formación de la Compañía de Servicio Agrícola. n. p., 1948? 30 p. 58 M52

Venezuela.

29338 MIEGE, E. Les coopératives de motoculture. *Inform. Maroc.* 401: 1, 3. Sept. 18, 1948. 281.8 In3

29339 MONTANARI, V. Mechanization of agriculture in Venetia. (In Italian.) *Agr. delle Venezie* 2: 590-616. July/Aug. 1948. 16 Ag826

29340 NEGRO, F. The mechanization of agriculture in England. (In Italian.) *Macch. e Motori Agr.* 6: 609-622. Dec. 1948. 58.8 M13

29341 OLIVIER, P. Evolution of agricultural mechanization in France. (In Italian.) *Macch. e Motori Agr.* 6: 511-520. Nov. 1948. 58.8 M13

29342 PHILLIPSON, A. Development in farm mechanization in Great Britain. *Brit. Agr. B.* 1: 73-80. Summer 1948. 10 B776

29343 RAGONDET, G. L. Remembrances par assemblée collectif. *Equip. Rur.* 1(1): 7-10. May 1948. 58.8 Eq5

Collective use of equipment.



- 29344 REICHERT, W. Arbeitsmaschinen richtig aufstellen! Landtechnik 1: 387-389. Dec. 1948. 58.8 L236
- 29345 RINGUELET, A. "La maquina al servicio del hombre"; no obstante felizmente, la agricultura argentina nació mecanizada. Bolsa de Cereales, Buenos Aires. Rev. 35(1879): 29-32. (Cont.) Dec. 30, 1948. 287 B866
- 29346 ROBERTS, W. A. Cotton mechanization's part in the future of the South. Impl. & Tractor 64(2): 30-31, 98, 100-101, 103. Jan. 22, 1949. 58.8 W41
- 29347 ROHLF, J. A. 1949 parade of new farm machines. Farm J. 73: 13-17. Jan. 1949. 6 F2212
- 29348 SEVERSON, H. Community planning increases sales. Farm Impl. News 70(3): 58-59, 92. Feb. 10, 1949. 58.8 F22
- 29349 SKEDL, O. Das motorsellgerät—ein helfer des bergbauern. Kärntner Bauer 98: 421-424. Dec. 20, 1948. 19 K14
- 29350 SMITH, H. P. Cotton farming goes to wheels. Crops & Soils 1(4): 5-10. Jan. 1949. 6 W66  
Mechanization.
- 29351 SMITS, C. Mechanization in agriculture. (In Dutch.) Nederland. Heidemaatsch. Tijdschr. 59: 469-471. Dec. 1948. 12 N282
- 29352 STEFANELLI, G. The Agricultural equipment show at Turin. (In Italian.) Macch. e Motori Agr. 6: 537-543. Nov. 1948. 58.8 M13
- 29353 STEFANELLI, G. The National Agrarian Congress of Turin, and agrarian mechanics in Italy. (In Italian.) Macch. e Motori Agr. 6: 521-524. Nov. 1948. 58.8 M13
- 29354 STOVER, H. E. Cost of operation of electrical equipment on the farm. Kans. State Col. Agr. Ext. Rural Electr. 1, 4 p. Mar. 1, 1948. 275.29 K13En
- 29355 SUDRE, J. La Semaine de Motoculture, Senlis. Potasse 22: 182-183. Nov. 1948. 57.8 P84
- 29356 TANQUARY, E. W. Application of hydraulic remote control to farm implements. Agr. Engin. 30(1): 17-19. Jan. 1949. 58.8 Ag83
- 29357 TURNER, A. W. Current public research indicated new markets. Impl. & Tractor 64(1): 62-63, 169, 176, 178, 182. Jan. 8, 1949. 58.8 W41
- 29358 TURNER, A. W. Engineering production of the cotton crop. Cotton Trade J. Internatl. Ed. (1948/49) 16: 148-150. 1948. 72.8 C82141
- 29359 U. S. FEDERAL TRADE COMMISSION. Report...on manufacture and distribution of farm implements. Washington, 1948. 160 p. 173 F32Rfi
- 29360 WELCH, C. L. What "ag" leaders should know about mechanization of cotton. Better Farming Methods 21(2): 16-17. Feb. 1949. 58.8 B46
- 29361 WILSON, J. V., and others. Agricultural machinery [Germany]. U. S. Off. Pub. Bd. Rpt. 93766: 6-8. 1948. 157.8 R29
- B. M. Hume, D. G. Mortimer, and D. I. McLaren joint authors.
- 29362 WIRTH, Unzureichende ausrüstung der landwirtschaft mit maschinen und geräten. Württemb. Wchnbl. f. Landw. 115: 326-327. Nov. 6, 1948. 18 W96
- 29363 WOOLFOLK, E. T. The economy of farm mechanization. Miss. Banker 33(8): 12, 20, 22. (To be cont.) Jan. 1949. 284.8 M69
- 29364 ZIMMERMANN, G. F. Testing where its toughest. Tractors, power units, and allied equipment find hardest going where the cactus reigns and erosion is the despot. Internatl. Harvester World 40(1/2): 12-14. Jan./Feb. 1949. 58.8 H26
- 29365 ZWAGERMAN, C. Horse and mechanization. (In Afrikaans.) Boer en Tuinder 2(87): 7. Sept. 1948. 12 B632
- Animal Husbandry Equipment
- 29366 BAKER, J. R. Put 6 x 4 brooders on turntables. Poultry Farmer [London] 119(3102): 4. Dec. 17, 1948. 47.8 F312
- 29367 BEHM, C. L. In the dehorning question. (In Swedish.) Lantmannen 33: 8. Jan. 1, 1949. 11 L234  
Equipment.
- 29368 BENNION, N. L. Brooding time is here. Various methods of brooding. Pacific Poultryman 53(2): 9, 16. Feb. 1949. 47.8 P112
- 29369 BRUCE, W. H. Large scale brooding methods. Poultry Farmer [Sydney] 16(27): 10-12. Jan. 8, 1949. 280.28 Or32
- 29370 BUCHINGER, W. G. New wrinkle in pig brooders. Elect. on the Farm Mag. 22(1): 8-9. Jan. 1949. 335.8 EL27
- 29371 BURTON, F. Case for laying cages. Poultry World 84: 7. Jan. 7, 1949. 47.8 P8682
- 29372 BURTON, F. Semi-indoor batteries? Units giving more adequate protection from hard weather might suit small-scale users better. Poultry World 84: 45. Jan. 21, 1949. 47.8 P8682
- 29373 CANNON, G. Bras for cows. Farm Q. 3(4): 88-89. Winter 1948. 6 F22995  
Udder supporters.
- 29374 CARGILL, B. F., and SCHRAM, J. R. An emergency source of power; power failures occur even in the best of families—when it happens at milking time a garden hose and the tractor can supply the vacuum. Amer. Milk Rev. 11(2): 58-59. Feb. 1949. 44.8 Am38
- 29375 CHAUMIER, J. Si vous voulez agrémenter le collier de votre cheval d'une garniture de grelots (grelottière). Rustica 22: 67. Jan. 23, 1949. 14 R92
- 29376 CROSBY, J. He pushes a button and feeds 8100 hens. Calif. Farmer, North. Ed. 190: 62-63. Jan. 15, 1949. 6 C126  
Poultry-plant mechanization.
- 29377 GORSLINE, E. P. Slat house for desert brooding. Pacific Poultryman 53(2): 5, 36. Feb. 1949. 47.8 P112
- 29378 GRANADOS, F. El ordeño a máquina. II. Cult. Mod. 30: 451-452. Dec. 1947. 15 C89
- 29379 GRATTONI, S. Alambrados, aguadas, tranqueras, postes, etc. Campo y Suelo Argentino 31(370): 67-68, 72. Aug. 1947. 9 C15
- 29380 HOFF, P. R. Taking care of the milking machine. Amer. Agr. 145: 682. Dec. 18, 1948. 6 Am3
- 29381 HUBER, M. G. Corrals for spraying cattle. West. Livestock J. 26(59): 114. Oct. 15, 1948. 6 F2278
- 29382 INCH, R. Rack for feeding hay to sheep. New Zeal. J. Agr. 77: 468. Nov. 1948. 23 N48J
- 29383 KRUISWYK, A., JR. Triple-purpose roosting racks do fine job. Washcoegg 26(9): 10-11. Feb. 1949. 47.8 W27
- 29384 LADRAT. Un nouveau seau trayeur. Rev. de Méd. Vét. [Toulouse] 99: 558-560. Dec. 1948. 41.8 R32
- 29385 MCMILLEN, W. N. Self-cleaning hog waterer. Berkshire News 14(3): 12. Jan. 1949. 46.8 B454
- 29386 MADDEVER, K. D., and EGDELL, J. W. Milking machine management. Gt. Brit. Min. Agr. Agriculture 55: 436-437. Jan. 1949. 10 G79J
- 29387 MANTLE, L. Labour saved with sun parlour brooders. Poultry Farmer [London] 120(3105): 4. Jan. 7, 1949. 47.8 F312
- 29388 MARSHALL, W. Faults that cause mortality in the incubator. Mod. Poultry Keeping 60: 70-71. Jan. 19, 1949. 47.8 Eg3
- 29389 MOORE, A. C. Overhaul your brooding equipment in advance. Poultry [London] 104: 28. Jan. 11, 1949. 47.8 P869
- 29390 MOORE, A. C. Start the year by overhauling incubators. Poultry [London] 103: 512. Dec. 28, 1948. 47.8 P869
- 29391 ORTEGA, L. B. California hackamore (la jaquima). An authentic story of the use of hackamore. n. p., 1948. 133 p. 42 Or8
- 29392 SIMS, D. Electric pig brooder better than heating stove. Elect. on the Farm Mag. 22(2): 18-19. Feb. 1949. 335.8 EL27
- 29393 SWINK, E. T. Electric [poultry] brooders are the best. South. Planter 110: 22-23. Jan. 1949. 6 So89
- 29394 TEARE, D. W. Electric brooder eliminates chance of fire; allows full night of sleep! Rur. Ga. 5(1): 8. Jan. 1949. 335.8 R887
- 29395 WHITTLESTON, W. G. Efficient mechanical milking. Soc. Dairy Technol. J. 2: 106-114. (To be cont.) Jan. 1949. 44.8 So12
- 29396 WIAINT, D. E. Check your chickside manner. Elect. on the Farm Mag. 22(2): 7-9. Feb. 1949. 335.8 EL27  
Brooders.
- Cultivation and Tillage Equipment
- 29397 ARNOLD, E. H. A serviceable farm-made roller. New Zeal. J. Agr. 77: 387. Oct. 1948. 23 N48J
- 29398 DEWALD, L. Mechanical thinning ahead. Sugar Beet 7(8): 6-9. Dec. 1948. 66.8 Su34B



29399 FAIRBANK, J. P. An aid in adjusting row-crop implements. *Spreckels Sugar Beet B.* 13: 8. Jan./Feb. 1949. 66.8 Sp7

29400 HAREN, S., and LERICHE, J. Charrues portées. *J. de la France Agr.* 4: 1029. Dec. 31, 1948/Jan. 6, 1949. 14 J829

29401 HIGGINS, F. H. California's first rotary steam plow in 1860! *Calif. Farmer, North. Ed.* 190: 60. Jan. 15, 1949. 6 C126

29402 HULL, D. O. Tractor plow adjustment and operation. *Iowa. Agr. Expt. Sta. B.* P95, p. 163-188. Nov. 1948. 100 Io9

29403 MEL'NIKOV, V. A. Mashiny po kul'ture kartofel' [Machines for potato culture]. Ed. 2, enl. and rev. Moskva, Sel'khozgiz, 1948. 182 p. 58 M492

29404 PHILLIPS, H. The story of the plough. *Farmers Weekly [London]* 29(26): 33-35. Dec. 24, 1948. 10 F2226

#### Fertilizer and Seed Distributors

29405 SCHWARTZ, S. M. Broadcast seeder mounts on tractor. *Pop. Mechanics Mag.* 91(2): 226-227. Feb. 1949. 291.8 P81

#### Harvesting Equipment

29406 ABRAHAMSEN, M. Mechanical harvesting; what it means in cotton marketing. *South. Agr.* 77, i. e., 78(11): 51. Nov. 1948. 6 So83

29407 ARTHUR, H. A. New-type machine bales hay in a roll. *New Zeal. J. Agr.* 77: 602. Dec. 1948. 23 N48J

29408 BARATTE, J. Récents démonstrations d'arrachage mécanique de betteraves. *Acad. d'Agr. de France. Compt. Rend.* 34: 892-893. Oct. 27/Nov. 3, 1948. 14 P215Bc

29409 BONIFACIO. Où en est l'arrachage mécanique des tubercules. *Génie Rural* 41: 315-317. Nov. 1948. 58.8 Au8

Potato harvesting equipment.

29410 FROLOV, L. M. Complex mechanization of grain harvesting. (In Russian.) *Tekhsociety MTS* 9(25): 1-8. 1948. 58.8 T233

29411 FROLOV, L. M. Mechanization of straw and chaff removal after the combines. (In Russian.) *Tekhsociety MTS* 9(26): 1-8. 1948. 58.8 T233

29412 GAVRIL'UK, A. T., and LEVIN, M. P. Dvigatel' U-5 dlia kombainov [U-5 engine for combines]. Ed. 2. Moskva, Sel'khozgiz, 1948. 207 p. 291 G24

29413 HETTINGER, R. Home-made beet hopper-corn crib saves time and cleans beets. *Through Leaves* 26(5): 27-28. Sept./Oct. 1948. 66.8 T41

29414 HICKEY, J. C. Sweet corn harvesting in Maine. *New England Homestead* 122(2): 8. Jan. 22, 1949. 6 N442

Mechanical equipment.

29415 HINE, H. J. Harvesting sugar beet; recent demonstrations. *Gt. Brit. Min. Agr. Agriculture* 55: 385-387. Dec. 1948. 10 G79J

Equipment.

29416 KAZAKOV, M. I. Combine harvesting of mustard. (In Russian.) *Vsesofuzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchet* 1941-1944: 397-414. 1947. 77.9 K86N

29417 LO, I. Grain harvesting. Experiences from use of tripod last fall. (In Norwegian.) *Norsk Landbr.* 14: 444-445. Dec. 10, 1948. 11 N8122

29418 MCIVER, H. C. Combine harvesters in south-east Scotland, 1944-47; a four-year comparison of the costs and performance of nine identical machines. *Scot. Dept. Agr. Farm Econ.* 16: 7-8. Autumn 1948. 281.9 Sco3F

29419 MEILLEUR, C. LE. Une technique a perfectionner — l'arrachage mécanique des betteraves. *B. des Engrais* 20: 461-462. Nov. 1948. 57.8 B87

29420 MEINDL, E. Die österreichischen motor-mäher. *Landtechnik* 1: 383-386. Dec. 1948. 58.8 L236

29421 MULLINS, T., and SLUSHER, M. W. Mechanization of the rice harvest. *Rice J.* 52: 20-21. Jan. 1949. 59.8 R36

29422 NEKRUTENKO, A. Stalinefs-6 combine. (In Russian.) *Mashinno-Traktorn. Stanfs.* 7(10): 44-45. Oct. 1947. 58.8 M11

29423 PITCHER, L., and FACER, E. The old topping knife is on its way to the museum of antiques. *Through Leaves* 26, i. e. 36(6): 11-14. Nov./Dec. 1948. 66.8 T41

Sugar beets.

29424 ROBARTS, C. R., and TESTER, L. G. Hay-making and grass drying surveys. *Gt. Brit. Min. Agr. Agriculture* 55: 420-422. Jan. 1949. 10 G79J

Includes equipment and labor.

29425 SHEA, L. J. Power-take-off header speed and its adjustment. *Power Farming Austral.* 58(12): 21. Dec. 1948. 56.8 P87

29426 SOKOLOV, N. P. Combine harvesting of non-splittable castor-beans. (In Russian.) *Vsesofuzn. Nauch. Issled. Inst. Maslichn. Kul'tur Nauch. Otchet* 1941-1944: 381-396. 1947. 77.9 K86N

29427 SOKOLOV, N. P. Peanut-picking machines. (In Russian.) *Vsesofuzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otchet* 1941-1944: 364-380. 1947. 77.9 K86N

29428 WHATMAN, C. P. The harvesting of cereal crops. *New Zeal. J. Agr.* 77: 577. Dec. 1948. 23 N48J

Chiefly equipment.

#### Land Clearing Equipment

29429 ANDREWS, A. P. Clearing oaks with cables. *Prog. Farmer, Tex. Ed.* 64: 22. Jan. 1949. 6 T311

29430 BUTLER, E. Texas' newest cotton kingdom. *Prog. Farmer, Tex. Ed.* 64: 13, 83. Jan. 1949. 6 T311

Water and big machinery are turning the Pecos Basin into productive land.

29431 LUNDER, A. G. Pasture clearing with bulldozer. (In Norwegian.) *Meieriposten* 37: 786-790. Dec. 4, 1948. 44.8 M47

#### Processing Equipment Used on the Farm

29432 ABIET. Le séchage accéléré par ventilation spéciale. *Génie Rural* 41: 283-284. Oct. 1948. 58.8 Au8

Forage drying.

29433 BONDE, G. Large centralized modern establishment. (In Swedish.) *Lantmannen* 32: 865. Dec. 25, 1948. 11 L234

For grain.

29434 BREVICK, H. L., KNIGHT, W. H., and BOYD, J. C. Milk cooling on Idaho farms. *Idaho. Agr. Col. Ext. Farm Electr.* Leaflet 2, 4 p. May 15, 1948. 275.29 Id13Fa

Equipment and methods.

29435 CROSBIE, C. J. Mechanical aids to silage making. *New Zeal. J. Agr.* 77: 469-473. Nov. 1948. 23 N48J

29436 FATH, A. Das gesicht der künftigen lohn-dreschmaschine. *Drescher u. Pflüger* 1(5): 1-2. Nov. 15, 1948. 58.8 D81

Germany.

29437 HAFELE, C. Kleedreschen. *Drescher u. Pflüger* 1(6): 1-3. Dec. 15, 1948. 58.8 D81

29438 HAFELE, C. Tücken einer dreschmaschine. *Drescher u. Pflüger* 1(2): 1-2. Aug. 15, 1948. 58.8 D81

29439 HAWTHORN, L. R. Tops for experimental work is this successful small thresher. *Seed World* 64 (3): 28, 30-31, 46. Feb. 7, 1949. 61.8 Se52

29440 HOOVER, R. J. Are you sour on mills? *Farm Impl. News* 70(2): 34, 66. Jan. 27, 1949. 58.8 F22

Feed mills.

29441 MCKINNEY, J. Chopped hay. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 64: 14. Jan. 1949. 6 P945

Chopping equipment and self-feeders reduce time and labor costs.

29442 MAREC, F. Les armoires frigorifiques ménagères. *Génie Rural* 41: 344-345. Dec. 1948. 58.8 Au8

29443 MIGNOTTE, F. La batteuse. *Monit. Agr.* 2 (52): 4. (Cont.) Jan. 9, 1949. 14 M744

29444 MITCHELL, S. Refrigerators; selection, use, care. *Ala. Polytech. Inst. Agr. Ext. C.* 359, 4 p. Dec. 1947. 275.29 AL1C

29445 MOUNTFORD, D. Mobile honey extracting plant. *Australasian Beekeeper* 50: 148. Dec. 15, 1948. 424.8 Au72

29446 PRADERE, U. Manera práctica de obtener una muestra fiel trabajando con corta trilla. *Campo y Suelo Argentino* 32(386): 24. Dec. 1948. 9 C15

29447 RICHARDSON, T. C. Beat the weather with a crop dryer. *Farmer-Stockman* 62: 5, 28. Jan. 1949. 6 Ok45

Hay and grain drying equipment.



29448 SOKOLOV, N. P. Mechanization of the shell-ing of peanuts. (In Russian.) Vsesofuzn. Nauch. Issled. Inst. Maslichn. Kul'tur. Nauch. Otech 1941-1944: 352-363. 1947. 77.9 K86N

29449 THEBIS, R. Seht jetzt die dreschmaschine durch! Drescher u. Pflüger 1(5): 3. Nov. 15, 1948. 58.8 D81

29450 WEBSTER, W. L., and LAMBORN, E. W. Investment per cow in haymaking equipment. N. Y. Agr. Col. Farm Econ. 165: 4261-4262. Dec. 1948. 280.8 C812

#### Repair, Maintenance, and Construction Equipment

29451 BERGER, T. Equipment centrals. (In Norwegian.) Tidsskr. for Skogbruk 56: 223-229. Sept. 1948. 99.8 T432

Repair shop.

29452 BORDELEAU, R. Les machines agricoles et leur entretien. Rev. Agr. de l'Afrique du Nord 46: 627. Dec. 10, 1948. 80 R326

29453 GENERAL ELECTRIC COMPANY. Which farm welder shall I buy? n. p., 1947. 4 p.-folder. 335 G28We

29454 KINDSCHY, D. L. Course content in welding and farm machinery. Agr. Ed. Mag. 21: 162-163. Jan. 1949. 275.8 Ag8

29455 KNIGHT, W. H. The electrified farm shop. Idaho. Agr. Col. Ext. Farm Electr. Leaflet 1, 4 p. Jan. 15, 1948. 275.29 Id13Fa

29456 KNIGHT, W. H. Farm shops have electric insides. Elect. on the Farm Mag. 22(1): 9-10. Jan. 1949. 335.8 EL27

29457 KRUEGER, W. C. Making the most of the farm shop. Country Gent. 119(2): 27. Feb. 1949. 6 C833

29458 LAPOINTE, J. A. L'atelier de ferme. Foyer Rur. [Montreal] 8(5): 7. Feb. 1949. 7 F83

29459 ROE, J. 13 reasons machines wear out. Successful Farming 46(11): 42-43, 147. Nov. 1948. 6 Su12

29460 SERS, J. Travaux d'hiver à la ferme. Rustica 22: 64. Jan. 23, 1949. 14 R92

Equipment and building repair.

29461 WEISS, J. Ein paar praktische selbstgebaute arbeitsgeräte. Kärntner Bauer 98: 398-399. Dec. 1, 1948. 19 K14

29462 WHITE, J. The wheelwright. Gt. Brit. Min. Agr. Agriculture 55: 392-394. Dec. 1948. 10 G79J

#### Spraying and Dusting Equipment

29463 BRIK, P. The wearing away and repair of the pivotal spray nozzles of C-65 tractor sprayers. (In Russian.) Mashinno-Traktorn. Stanfs. 7(10): 31-35. Oct. 1947. 58.8 M11

29464 BROWN, A. L. An improved spray machine for experimental plot and field work. Agron. J. 41: 47-48. Jan. 1949. 4 Am34P

29465 EDDIE, A. H. Control of diseases and pests by spraying in commercial orchards. New Zeal. J. Agr. 77: 483, 485. Nov. 1948. 23 N48J

Chiefly equipment.

29466 GALLWITZ, K. Der einfluss der organisation der pflanzenschutzmassnahmen in der landwirtschaft auf die gestaltung der geräte. Landtechnik 3: 413-415. Nov. 15, 1948. 58.8 L235

29467 IRONS, F. New advances in [insecticide] application equipment. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 19-20. 1948. 423.9 Am32

29468 JENNY, J. État actuel et perspectives de la technique de la lutte antiparasitaire en agriculture. Rev. Romande d'Agr., de Vitic. et d'Arbor. 5(1): 3-6. Jan. 1949. 17 J82A

Spraying and dusting technique and equipment.

29469 KERSTENS, J. Spraying equipment. (In Afrikaans.) Boer en Tuinder 2(87): 13. Sept. 1948. 12 B632

29470 MARTÍNEZ MORENO, J. I. Algunos consejos a los que asperjan o espolvorean a maquina. Control de Plagas 10: 168-169. Dec. 1948. 464.8 C76

29471 MASSEY, G. F. 1949 weed sprayer outlook. Farm Impl. News 69(27): 36-37, 54, 56, 58. Dec. 30, 1948. 58.8 F22

29472 MILLER, W. A. R. High-volume sprayer for hormone weedkillers. New Zeal. J. Agr. 77: 575. Dec. 1948. 23 N48J

29473 OLDENKAMP, J. De motorspuit voor de boomgaard [Motor spraying of orchards]. Wageningen, Veenman, 1948. 111 p. 291 OLI

29474 PRATT, R. M., MASSEY, L. M., and PARKER, K. G. Fruit tree disease control with a new type of spray-duster and mist sprayer. (Abs.) Phytopathology 39: 19. Jan. 1949. 464.8 P56

29475 RICHARDS, M. C., and MURPHY, D. The vacuum duster for applying fungicides and inoculum to plants. (Abs.) Phytopathology 39: 20. Jan. 1949. 464.8 P56

29476 ROBINSON, K. L. The selection of fruit-spraying equipment. N. Y. Agr. Col. Farm Econ. 165: 4247-4253. Dec. 1948. 280.8 C812

29477 TEMPLEMAN, W. G. Low volume sprayers for weed control. Gt. Brit. Min. Agr. Agriculture 55: 441-443. Jan. 1949. 10 G79J

29478 WATT, J. H. Spray equipment for glass-houses. New Zeal. J. Agr. 77: 357-359. Oct. 1948. 23 N48J

29479 WILLIAMSON, K. Como cuidar un equipo espolvoreador. Control de Plagas 11: 176, 178. Jan. 1949. 464.8 C76

#### Vehicles

29480 ARANDA HEREDIA, E. Hacia la hegemonia del tractor. Agricultura [Madrid] 17: 392-397. Sept. 1948. 15 Ag84

29481 BERTEL, R. Piston ring development; the trend to narrower types. Power Farming Austral. 58(12): 17-19. Dec. 1948. 58.8 P87

In engines.

29482 BRITISH RUBBER DEVELOPMENT BOARD. Experiments on tractor tyre performance. London, 1948. 24 p. 305 B772

29483 CARENA, A. Notes on the development of the international garden tractor show. (In Italian.) Macch. e Motori Agr. 6: 525-534. Nov. 1948. 58.8 M13

29484 CARGILL, B. F., and SCHRAM, J. R. The tractor as an emergency source of vacuum for milking machine operation. Mich. Agr. Expt. Sta. Q. B. 31: 157-159. Nov. 1948. 100 M58S

29485 CODRON, A. Carburants et lubrifiants de remplacement. Colon Franç. de Tunisie 59(2081): 1, 3. (To be cont.) Jan. 8, 1949. 24 C712

29486 CULP, H. W. When is the best time to buy tires? Cent. Exch. Messenger 1(4): 24, 30. Jan./Feb. 1949. 280.28 C33

29487 DUPONT. Motorisation agricole. Voix des Colons 30(1478): 1. Nov. 15, 1948. 24 V85

Tractors.

29488 ENCELHARD, J. Un gros avantage des motoculteurs. Rustica 21: 939. Dec. 26, 1948. 14 R92

29489 EVERETT, H. E. Tractor production expected to continue at high level in 1949. Automotive Indus. 100(2): 32-33, 102, 104. Jan. 15, 1949. 291.8 Au82

29490 FOLLEY, R. R. W. The economy of the two-wheeled tractor. Farm Econ. 6(1/2): 8-9. 1948. 281.8 F223

29491 FUHRMEISTER, W. Der deutsche nachkriegsschlepperbau. Drescher u. Pflüger 1(6): 4-5. Dec. 15, 1948. 58.8 D81

29492 GARBORG, R. Equipment in the service of agriculture. IV. (In Norwegian.) Norsk Landbr. 14: 451-452. Dec. 10, 1948. 11 N8122

Tractors.

29493 GEMEREN, P. Tractors and tractor equipment. (In Afrikaans.) Boer en Tuinder 2(87): 10-11. Sept. 1948. 12 B632

29494 GMEINDER, A. Universal-einachs-schlepper—wo bist du? Landtechnik 1: 386-387. Dec. 1948. 58.8 L236

Specifications for an Austrian tractor

29495 GUIDE pratique de mécanique à l'usage des conducteurs de tracteurs et d'automobiles. Ed. 2. Saint Quentin, La Terre Libératrice, 1947. 213 p. 291 G942

29496 HANKE. Eine amerik. stimme zum einsatz von schleppern im rahmen des Marshallplanes. Landtechnik 3: 380. Oct. 31, 1948. 58.8 L235

29497 HOLLENBERG, A. H. Tractor care and maintenance manuals are now available. Agr. Leaders' Digest 29(9): 45. Oct. 1948. 275.28 Am3



29498 JORDBRUKSTEKNISKA INSTITUTET. Advisory rates for tractor work in agriculture. (In Swedish.) Kalmars Låns Norra Hushållningssällsk. Kvrtlsskr. 8: 111-113. 1948. 11 K12

29499 KIRIUKHIN, A. Repair of Stalinefs-80 tractor. (In Russian.) Mashinno-Traktorn. Stanfs. 7(10): 35-41. Oct. 1947. 58.8 M11

29500 LALANNE. Il vous faut un tracteur; comment le choisir? Génie Rural 41: 337-339. Dec. 1948. 58.8 Au8

29501 LANDGREBE, W. Neue schlepperpreise - neue schleppergebühren. Landtechnik 3: 380-382. Oct. 31, 1948. 58.8 L235

29502 LAPITSKII, M. Assembling the SKHTZ tractor units after the repair of basic parts. (In Russian.) Mashinno-Traktorn. Stanfs. 7(10): 25-30. Oct. 1947. 58.8 M11

29503 LAURENT, R. Tracteurs, carburants, devises conditionnent la production agricole. Inform. Maroc. 405: 1, 3. Oct. 16, 1948. 281.8 In3

29504 LERICHE, J. La viticulture a besoin d'un matériel de traction spécialement étudié. Libération Paysanne 5(198): 3. Jan. 13, 1949. 14 L61

29505 MIEGE, E. La grave question des carburants. Inform. Maroc. 405: 1-2. Oct. 16, 1948. 281.8 In3

29506 NEBRASKA. AGRICULTURAL EXPERIMENT STATION. The Nebraska tractor tests, 1920-1948. Nebr. Agr. Expt. Sta. B. 392, 51 p. Jan. 1949. 100 N27

29507 NOLAN, J. L. Farm fuel facts. Cent. Exch. Messenger 1(4): 8-9. Jan./Feb. 1949. 280.28 C33

29508 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Care of machines and implements. I. The farm tractor. North. Ireland. Min. Agr. Monthly Rpt. 23: 301-305. Feb. 1949. 256.13 Ag82M

29509 PATRICK, R. L. Cleaned air—little wear in your tractor engine. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 64: 46. Jan. 1948. 6 P945

29510 PATTERSON, P. Another use for LPG [Liquefied petroleum gas]—it runs the farm tractor. West. Farm Life 50(21): 3, 29. Nov. 1, 1948. 6 R153

29511 POGORELYI, I. P., CHISTIAKOV, V. D., and LUKANOV, M. A. Remont traktorov [Repair of tractors]. Ed. 3, rev. Moskva, Sel'khozgiz, 1948. 647 p. 58 P753

29512 POGORELYI, I. P. Tightening the bolts of connecting rods. (In Russian.) Mashinno-Traktorn. Stanfs. 7(10): 16-17. Oct. 1947. 58.8 M11

In tractors.  
29513 RAYER, F. G. Care of the tractor battery. Farmer & Stock-Breeder 63: 39. Jan. 4, 1949. 10 F228

29514 SAINT-QUENTIN, M. Les charrois dans l'exploitation agricole. Rustica 22: 26. Jan. 9, 1949. 14 R92

France.  
29515 SCOTTON, M. Efficiency of agricultural tractors. (In Italian.) Macch. e Motori Agr. 6: 545-549. Ref. Nov. 1948. 58.8 M13

29516 SELIVANOV, A., BONDARENKO, A., and KOZLOV, A. Equipment for the repair of the SKHTZ tractor frame. (In Russian.) Mashinno-Traktorn. Stanfs. 7(10): 21-24. Oct. 1947. 58.8 M11

29517 SHEBALIN, I. U. A steam-driven tractor. (In Russian.) Mashinno-Traktorn. Stanfs. 7(10): 46-48. Oct. 1947. 58.8 M11

29518 SIMBRIGER, F. Was verlangen wir vom neuen schlepper? Neue Mitt. f. die Landw. 3: 111-112. Apr. 21, 1948. 18 N39

Germany.  
29519 SMIL'GEVICH, I. Reasons for the poor work of CHTZ C-65 tractors in Penza Region. (In Russian.) Mashinno-Traktorn. Stanfs. 7(10): 15. Oct. 1947. 58.8 M11

29520 SVENSSON, K. Å. 100 billion liters of tractor fuel consumed each year; how to decrease consumption. (In Swedish.) Lantmannen 32: 859-860; 33: 9-10. Dec. 25, 1948-Jan. 1, 1949. 11 L234

Chiefly on care.  
29521 TONINI, G. The farm tractor. (In Italian.) Romagna Agr. e Zootec. 33(6): 1. June 1948. 16 R66

29522 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. List of commercial airplane dusting and spraying companies. Washington, 1949. 8 p. 1.967 A2L693

29523 VARINI, F. On some questions regarding tractors. (In Italian.) Macch. e Motori Agr. 6: 591-597. Dec. 1948. 58.8 M13

## FARM STRUCTURES AND RURAL HOUSING

29524 ANDERSON, N. B. Repair and remodeling of granaries and barns. Dak. Farmer 69: 6, 8. Jan. 1, 1949. D14

29525 BOUMA, G. J. A. Farm building in Limburg. (In Dutch.) Boer en Tuinder 2(103): 5. Dec. 24, 1948. 12 B632

29526 CEMENT AND CONCRETE ASSOCIATION. Farms, a picture book of new buildings, yards and approaches. London, 1948. 71 p. 299.C33F

29527 COLEAN, M. L. The great era of farm building. Chicago, Mortgage Bankers Assoc. of Amer., 1948. 5 p. 296.2 C67

Also in Farm Electrification 3: 15-21. Jan./Feb. 1949. 335.8 F224

29528 ELLIS, H. M., and WEAVER, J. W., JR. Drying crops with a flue tobacco barn. N. C. Agr. Col. Ext. C. 328, 8 p. Oct. 1948. 275.29 N811

29529 GOODMAN, A. M. Insulation and vapor-proofing: modern farm essentials. Roofing, Siding & Insulation 8(1): 22-25, 28. Jan. 1949. 291.8 In7

29530 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Temporary listing of farm building plans. Ill. Agr. Col. Ext. AEng 586, 4 p. Nov. 15, 1948. 275.29 IL62Pa

29531 KENTUCKY. UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. AGRICULTURAL ENGINEERING SECT. Farm building plans. Ky. Agr. Col. Ext. C 397, rev., 24 p. Feb. 1948. 275.29 D415

29532 LÖRCHER, C. C. Landwirtschaftliche baufragen. Württemb. Wchnbl. f. Landw. 115: 374. Dec. 4, 1948. 18 W96

29533 RISENG, P. R. Loadbearing outer walls in farm building construction. (In Norwegian.) Norsk Landbr. 15(1): 15-17. Jan. 7, 1949. 11 N8122

## Animal Shelters and Animal Service Buildings

29534 ANDREWS, B. N. Old horse barn pays with steers. Capper's Farmer 60(2): 14. Feb. 1949. 6 M693

A remodeled barn.  
29535 ARMSTRONG, J. B. Heated concrete floor keeps baby pigs cozy in subzero weather. Wash. Farmer 74: 73. Feb. 3, 1949. 6 R151

29536 BALL, C. E. Year-round laying house. Nashville, South. Agr., 1948. Folder. 47 B212

29537 BEALBY, D. Ducks by the thousand: willow roofs. Poultry Farmer [London] 120(3107): 4. Jan. 21, 1949. 47.8 F312

29538 BLYTH, J. Building your rabbit hutch. All-Pets Mag. 20(2): 62-63. Feb. 1949. 48.8 AL5

29539 BREIREM, K. American barns. (In Norwegian.) Norsk Landbr. 14: 446-451, 467-470. Dec. 10-17, 1948. 11 N8122

29540 BROWN, O. K., and ANDERSON, G. C. Idaho dairy barn and milkhouse requirements for graded milk production. Idaho Agr. Col. Ext. C. 104, 4 p. Oct. 1948. 275.29 Id13C

29541 CARTER, D. G. Remodeling general-purpose barns. Ill. Agr. Col. Ext. AEng 501, 18 p. Aug. 16, 1948. 275.29 IL62Pa

29542 CZAJA, M. The housing problem in sheep breeding. (In Polish.) Przegl. Hodowlany 16: 339-344. Nov./Dec. 1948. 49 P952

29543 DART, C. There's a lifetime of dairy experience in this second-guess barn. Successful Farming 46(11): 102-105. Nov. 1948. 6 Su12

29544 DeGOLYER, A. H. Successful Farming presents a laborsaving low-cost milking room. Successful Farming 47: 42, 120-121. Jan. 1949. 6 Su12

29545 ENGINE, S. A., PETERSEN, W. E., and OTIS, C. K. Loose housing for dairy cattle. Minn. U. Agr. Ext. Folder 146, 12 p. June 1948. 275.29 M66Ex

29546 FEHLE, U. Richtige stallbelichtung—richtige stallfenster! Landtechnik 1: 380-382. Dec. 1948. 58.8 L236

29547 GOTSCHY, W. Die entlüftung von viehställen. Saat u. Ernte 3(12): 9. Dec. 1948. 18 Sa12



- 29548 HARPER, J. A., and GRIEBELER, W. L. Turkey range equipment. *Oreg. Agr. Expt. Sta. C. 176*, 4 p. Sept. 1948. 100 Or3  
Shelters, feeders, and watering devices.
- 29549 HEALE, W. I have five houses and detest folds. *Poultry Farmer [London] 120(3105): 9*. Jan. 7, 1949. 47.8 F312
- 29550 HERVEY, C. Poultry house—and more. *Farm J. 73(2): 25-26*. Feb. 1949. 6 F2212
- 29551 HOFF, P. R. Ventilating the dairy barn. *Amer. Agr. 146: 30, 37*. Jan. 15, 1949. 6 Am3
- 29552 HOOTMAN, C. E., and BENSON, J. L. These poultrymen like forced air ventilation. *Ohio Farmer 203(2): 20-21*. Jan. 15, 1949. 6 Oh3
- 29553 HUFNAGLE, R. W. Open-air calves are hardy. *Successful Farming 46(11): 168*. Nov. 1948. 6 Sul2  
Open sheds.
- 29554 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Barn ventilation project; preliminary information sheet. *Ill. Agr. Col. Ext. AEng 579, 1 p*. Aug. 16, 1948. 275.29 IL62Pa
- 29555 KENNEY, S. M. Building a new hen house. *Rural New-Yorker 99: 24*. Jan. 1, 1948. 6 R88
- 29556 KLEIN, G. T. A simple combination house; for small poultrymen, this brooder house has advantages. *Poultry Tribune 55(2): 90*. Feb. 1949. 47.8 P8642
- 29557 KNUTSEN, E. A modern dog kennel. (In Norwegian.) *Norsk Kennel Klubs Tidsskr. 50: 15-18*. Jan. 1949. 48.9 N81T
- 29558 M'GUCKIAN, A. A. Housing as a factor in health in pig production. *Scot. Farmer 56: 1466-1467*. Dec. 18, 1948. 10 Sco8
- 29559 MCMILLEN, W. N. Will your pigs freeze? *Berkshire News 14(3): 14*. Jan. 1949. 46.8 B454
- 29560 MATAALLANA VENTURA, S. Luz, aire y calor en los alojamientos del ganado. I. *Ganadería [Madrid] 6: 509-511*. Oct. 1948. 49 G15
- 29561 MAW, W. A. Simple ventilation for the laying house. *Macdonald Col. J. 9(4): 25*. Dec. 1948. 101 M144
- 29562 MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. Round top brooder house with sun porch. *Minn. U. Agr. Ext. Pam. 40, rev., 6 p*. May 1948. 275.29 M66P
- 29563 MITCHELL, N. New developments in poultry and dairy barn ventilating equipment. *Agr. Engin. 30(1): 29-32*. Jan. 1949. 58.8 Ag83
- 29564 MOORE, A. C. Are present-day housing costs too high? *Poultry [London] 104: 48*. Jan. 18, 1949. 47.8 P869
- 29565 MOORE, A. C. I rear 5,000 chicks each winter in folds. *Poultry [London] 104: 88*. Feb. 1, 1949. 47.8 P869
- 29566 NAGEOTTE, J. C. Latest developments in dairy stabling. *Guernsey Breeders' J. 75: 534-536*. Feb. 15, 1949. 43.8 G93
- 29567 PHILLIPS, H. Reduce exposure: reduce expense; adequate shelter is a money-saver. *Smallholder 80(2019): 21*. Dec. 10, 1948. 10 Sml  
Livestock shelter.
- 29568 POOR, H. New look in poultry laying pens. *Washcoegg 26(8): 6-7*. Jan. 1949. 47.8 W27
- 29569 ROBINSON, C. Dairy barn deluxe. *Utah Farmer 68(9): 14, 16*. Dec. 15, 1948. 6 D45
- 29570 RUPP, E. Do steers need room? *Kans. Farmer 86(2): 14*. Jan. 15, 1949. 6 K13  
Better gains in small feeding pens.
- 29571 SCOTT, G. W., JR., and others. A study of calf raising facilities in the State of Washington. *Amer. Dairy Sci. Assoc. West. Div. Proc. (1948) 29: 70-75*. 44.9 Am342  
R. E. Erb, A. O. Shaw, R. O. Gilden, and W. E. Matson, joint authors.  
Housing.
- 29572 TEARE, D. W. Good barn ventilation possible with automatic electric system. *Okla. Rur. News 2(1): 9*. Jan. 1949. 335.8 Ok4
- 29573 THWAITES, W. G. How to build nutria pens. *Natl. Fur News 21: 16-17, 28-29*. Feb. 1949. 412.628 R59
- 29574 TORP, A. Barns. (In Norwegian.) *Norsk Landbr. 14: 300-303*. Aug. 6, 1948. 11 N8122
- 29575 TRENARY, O. J. Plan to build the dairy right. *West. Farm Life 50(20): 6, 16*. Oct. 15, 1948. 6 R153  
Dairy and milking barns.

- 29576 VAN DER MERWE, J. A. Overhousing, a great enemy of the poultry farmer. (In Afrikaans.) *S. A. P. A. Poultry B. 12(135): 7*. Dec. 1948. 47.8 So89
- 29577 VAN VLACK, C. H. Cows like comfort, too! Like humans, cows work better when dry and comfortable; here the author discusses ventilation. *Hoard's Dairyman 94: 57, 67*. Jan. 25, 1949. 44.8 H65
- 29578 WAGNER, C. P. Milk house heating with electricity. *Farm Electrification 3(1): 30-34*. Jan./Feb. 1949. 335.8 F224
- 29579 WAGNER, C. P. Milk house insulation, heating. *Miss. Val. Lumberman 73: 96-97*. Jan. 7, 1949. 99.81 M69
- 29580 WAGNER, R. R. Dairy barn ventilation. *Bow'an Arrow 5(1): 7*. Jan./Feb. 1949. 44.8 B672
- 29581 WILKINS, D. They need not paddle in drop-pings. *Poultry Farmer [London] 119(3103): 8*. Dec. 24, 1948. 47.8 F312  
Poultry house sanitation.
- 29582 WITZEL, S. A., SMITH, V. R., and WILKINS, J. W. Milking parlor studies where used in conjunction with the loose housing system. n. p., 1948. 29 p. 44 W782

#### Farmhouses and Farmsteads

- 29583 BIDAUT, J. Le logement de l'ouvrier agricole. *Génie Rural 41: 341-344*. Dec. 1948. 58.8 Au8
- 29584 DAVIES, B. Build your own small house; leads from Tuskegee's self help housing plan. *Farmer's Mag. 46: 16, 25*. Jan. 1949. 7 C165
- 29585 DAVIS, E. C. Farmhouse plans for North-eastern States. *U. S. D. A. Misc. P. 658, 19 p*. Dec. 1948. 1 Ag84M
- 29586 GARNETT, W. E. Farm housing in Virginia. *Va. Agr. Expt. Sta. B. 417, 34 p*. Oct. 1948. 100 V81S
- 29587 GRISHIN, V. How to finish properly the window and door openings in wooden houses. (In Russian.) *Sel'sk. Stroitel' 1947(8): 14-15*. Oct./Nov. 1947. 296.28 Se4
- 29588 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Suggestions for farm-house remodeling. *Ill. Agr. Col. Ext. AEng 590, 4 p*. Dec. 30, 1948. 275.29 IL62Pa
- 29589 LARSON, G. H. How to cool a house. *Cap-per's Farmer 60(2): 15, 35*. Feb. 1949. 6 M693
- 29590 MARTENS, R. How a West Virginia farm family put storage in an old house. *Farm J. 73(2): 118-120*. Feb. 1949. 6 F2212
- 29591 MURGEL, A. A. The home of the "caboclo." *Brazil 23(12, i. e. 1): 6-7*. Jan. 1949. 280.8 B732
- 29592 MUSICK, J. R. Ranch home of the west. *Rec. Stockman, Ann. Ed. 59(52): 184-185*. Dec. 23, 1948. 49 D43  
Designs and specifications.
- 29593 PHAGAN, C. V., and MCDUFFIE, V. A. Plans for Oklahoma farm homes. *Okla. Agr. Col. Ext. C. 481, 31 p*. 275.29 Ok41C
- 29594 POLONSKII, I. On the main highway from Moscow to Leningrad. (In Russian.) *Sel'sk. Stroitel' 1947(8): 3-5*. Oct./Nov. 1947. 296.28 Se4  
Housing construction for collective farmers.
- 29595 PRATELLI, G. Approach to the typing of rural houses on farms of the Collina Bolognese. (In Italian.) *Genio Rur. 11: 421-435*. Dec. 1948. 281.8 R522
- 29596 SANZ, F. Dos viviendas rurales modelo para la región asturiana. *Siembra 1948(11): 12-14*. Nov. 1948. 15 S11
- 29597 SHANK, N. Make your kitchen modern. *Iowa Agr. Expt. Sta. B. P92, p. 23-51*. Aug. 1948. 100 Io9
- 29598 U. S. BUR. OF AGRICULTURAL ECONOMICS. Survey indicates approximately 160,000 homes built on farms in 1947. *Washington, 1948. 2 p*. 1.941 A2Su8
- 29599 WICHES, H. E. For real family living outdoors; a stepsaving house. *Successful Farming 46(11): 38-39*. Nov. 1948. 6 Sul2

#### Greenhouses and Plant Service Buildings

- 29600 BENNETT, L. G. Fuel supplies and the glasshouse grower. *Gt. Brit. Min. Agr. Agriculture 55: 395-398*. Dec. 1948. 10 G79J
- 29601 GARDINER, G. F. Points to consider when buying a greenhouse. *Pop. Gard. 50: 399*. Dec. 18, 1948. 80 G1622



29602 HITCHINS, P. E. N. Glasshouse heating. Fruit-Grower 107: 41-42. Jan. 13, 1949. 80 F941

29603 KRAFT, J. Use coldframes and hotbeds. (In Swedish.) Weibulls Allehanda 8(3): 17-18. 1948. 80 W42

29604 SIMS, D. Electric hotbed beats manure. Elect. on the Farm Mag. 22(2): 14-15. Feb. 1949. 335.8 EL27

29605 TAYLOR, C. R. Phenomenal growth from use of Rotorua's natural heat. New Zeal. J. Agr. 77: 383. Oct. 1948. 23 N48J

Heating greenhouses from hot springs.

29606 TEARE, D. W. Electric hotbeds mean early meals from garden for modern farmers. Rur. Elect. Missourian 2(2): 8. Feb. 1949. 335.8 R886

29607 VANDERWAEREN, R. Use of hotbeds and coldframes during the winter. (In Flemish.) Tuinbouw-berichten 12: 170-171. Nov. 15, 1948. 80 T817

#### Materials and Methods

29608 HOBGOOD, P. You can save money and enjoy living with insulation. South. Agr. 77, 1. e., 78 (11): 12-13, 85. Nov. 1948. 6 So83

Materials and methods.

29609 LALLOY, Ce qu'il faut savoir en matière de construction: chaux et ciment. Génie Rural 41: 349-350. Dec. 1948. 58.8 Au8

29610 MILLER, D. G., and MANSON, P. W. Durability of concretes and mortars in acid soils, with particular reference to drain tile. Minn. Agr. Expt. Sta. Tech. B. 180, 80 p. Ref. June 1948. 100 M66

#### Storage Structures

29611 AASEN, S. J. Potato silos. (In Norwegian.) Norsk Landbr. 15: 32. Jan. 21, 1949. 11 N8122

29612 CHARON, A. J. Petit silo pour vos chèvres. Rustica 21: 927. Dec. 26, 1948. 14 R92

29613 HAIMERL, J. Selbsthilfe in der silowirtschaft. München, Bayerischer Landwirtschaftsverlag, 1947. 52 p. (Landwirtschaftliche Praxis. 1) 60.7 H13

29614 JACKMAN, E. R. Measuring hay is tricky. Oreg. Farmer 72: 32. Jan. 20, 1949. 6 Or32

29615 SCHEMP, K. Die bauausführung von dungen. Neue Mitt. f. die Landw. 3: 468-469. Dec. 15, 1948. 18 N39

29616 SELLERGREN, H. Place of silos in older buildings. (In Swedish.) Lantmannen 32: 827. Dec. 11, 1948. 11 L234

29617 ZILLICH, R. Güllerei auf almen. Kärntner Bauer 98: 374-376. Nov. 15, 1948. 19 K14

#### Walls and Fences

29618 CZERWINKA, W. Winke zur einrichtung des festen elektrozaunes. Landtechnik 1: 376-379. Dec. 1948. 58.8 L236

29619 GREVE, Wie steht es um den elektroweidenzaun? Neue Mitt. f. die Landw. 3: 122. Apr. 21, 1948. 18 N39

29620 NEEL, L. R. Farm fencing that lasts. South. Agr. 78, 1. e., 79: 10. Jan. 1949. 6 So83

29621 RHODESIA. DEPT. OF AGRICULTURE. DIV. OF FORESTRY. The use of timber in fencing. Rhodesia Agr. J. 45: 296-301. July/Aug. 1948. 24 R34

29622 SNYDER, H. Building a barbed-wire fence that will stay tight. Amer. Hereford J. 39(19): 100. Feb. 1, 1949. 43.8 Am32

29623 SNYDER, H. Fences that last for life. Hoard's Dairyman 94(3): 126-127. Feb. 10, 1949. 44.8 H65

29624 WINKELMAN, W. Electric fences. (In Dutch.) Netherlands. Landbouvoorlichtingsdienst. Maandbl. 5: 557-562. Dec. 1948. 12 N383M

#### FARM UTILITIES

##### Electricity and Electrification

29625 CAMPBELL, H. E., and RYDBECK, V. A. Shunt capacitors for REA-financed cooperative systems. Rur. Electrification Mag. 7(5): 23, 52. Feb. 1949. 335.8 N21

29626 COVER, W. Electricity on the dairy farm. Scot. Farmer 57: 318-319. Jan. 1, 1949. 10 Sco8  
Chiefly equipment.

29627 DEROSE, R. L. Electrical consumption and operation cost for farm and home equipment. Nebr. Agr. Col. Ext. Agr. Engin. Rural Electrification 1, 4 p. Oct. 1948. 275.29 N272Agn

29628 ENRIQUEZ, O. R., and ALVAREZ PIER, P. Cálculo y diseño del paso de las líneas de transmisión de la Cia. Agrícola y de fuerza eléctrica del Río Conchos, S. A., sobre el lago de la presa de Las Virgenes, Chih; informe técnico. Ingen. Hidrául. en Méx. 2(1): 39-84. Jan./Mar. 1948. 290.8 In43

Summaries in Portuguese and English.

29629 HAINES, D. B. Contributions women can make to rural electrics should be weighed. Rur. Electrification Mag. 7(5): 26, 32. Feb. 1949. 335.8 N21

29630 HARRIS, H. W. Unprotected poles may be a gamble. Rur. Electrification Mag. 7(5): 44-45. Feb. 1949. 335.8 N21

29631 HIENTON, T. E. Current research in farm electrification. Rur. Electrification Mag. 7(5): 24-25, 46. Feb. 1949. 335.8 N21

29632 HOLLOWAY, A. E. Rural electric service improved greatly in year's time. South. Calif. Rancher 13(12): 35. Dec. 1948. 6 So831

29633 KAINZ, A. Die elektrizität in der landwirtschaft unter besonderer berücksichtigung der elektrifizierung der landwirtschaft Niederösterreichs. Landwirtschaft 1948: 277-281. Oct. 23, 1948. 19 L235

29634 MACHATA, F. Elektrizität in der landwirtschaft. Salzburg. Bauer 4(2): 7; (3): 10-11. (To be cont.) Jan. 13, 20, 1949. 19 Sa3

29635 MARTY, H. L'électricité n'a jamais présenté aucun danger, cependant il faut parfois être prudent. Génie Rural 41: 282. Oct. 1948. 58.8 Au8

29636 MORALES, D. J. Proyecto de electrificación de Valle de la Pascua. Venezuela. Min. de Fomento. Rev. de Fomento 10(71/72): 85-91. Apr./Sept. 1948. 280.8 V552

29637 PEAVY, A. Wiring lamps. Ala. Polytech. Inst. Agr. Ext. C. 361, 8 p. Dec. 1947. 275.29 AL1C

29638 PRIESTMAN, H. L. E. Electrification of rural areas expected to raise agricultural output of Eire. Foreign Trade 5: 18. Jan. 1, 1949. 286.8 C162

29639 RENFROE, C. Southern farms "hit the juice." Elect. on the Farm 20(10): 7. Dec. 1948. 335.8 EL27

29640 ROTHPLETZ, M. W., and WILLIAMS, H. S. Rural inductive co-ordination practices. Elect. Engin. 68: 148-150. Feb. 1949. 335.8 EL275

29641 ROWLAND, F. E. Electricity in agriculture. BEAMA J. 56(139): 7. Jan. 1949. 335.8 B11

29642 ROWLAND, F. E. Some aspects of agricultural and horticultural electrification in Great Britain. Agr. Engin. 30(1): 14-16. Jan. 1949. 58.8 Ag83

29643 RUEPPEL, E. H. An authority speaks on a big subject—adequate wiring. Nebr. Elect. Farmer 3(2): 15. Feb. 1949. 335.8 N27

29644 RURAL electrification extends into every county in Georgia. Ga. Prog. 5(7), 4 p. Jan. 1949. 280.8 G292

29645 STAHL, E. G. Farm electrification in California. Farm Electrification 3(1): 1-5. Jan./Feb. 1949. 335.8 F224

29646 STERE, J. B. Strength of electric wires. Elect. on the Farm Mag. 22(2): 9-10. Feb. 1949. 335.8 EL27

29647 TOULOUSE, J. Electric cooperatives bringing new methods of N. M. ranches. N. Mex. Stockman 14 (1): 72-74. Jan. 1949. 49 N462

29648 U. S. RURAL ELECTRIFICATION ADMIN. Report, 1947/48. Washington, 1948. 26 p. 173.2 R88A

29649 WELCH, J. H. A giant of power and light on Valley farms. Tex. Farming & Citric. 25(5): 5. Nov. 1948. 80 T31

Magic Valley Electric Cooperative.

29650 WICKARD, C. R. Electric power for growing America. Washington, U. S. Rural Electrification Admin., 1949. 5 p. 1.91 A2W63

29651 WICKARD, C. R. 1948 was greatest year in REA history. (Excerpts.) Co-op Power 6(3): 22-23. Mar. 1949. 335.8 C78

29652 WICKARD, C. R. A report on the condition and progress of rural electrification. Washington, U. S. Rural Electrification Admin., 1949. 7 p. 1.91 A2W63



Heating, Lighting, and Radiation

- 29653 BRANDON, D. Electric soil warming. *Amateur Gard.* 65(3367): 19. Nov. 23, 1948. 80 Am13
- 29654 BROWN, C. A. C., and GOLDING, E. W. Electrical pre-warming of tomato house soil. *Gt. Brit. Min. Agr. Agriculture* 55: 447-450. Jan. 1949. 10 G79J
- 29655 MILLER, I. Good light saves not only sight but helps farmers do work right. *North Cent. News* 6(4): 4. Feb. 17, 1949. 335.8 N81
- 29656 NEWCOMB, D. A. Operating orchard heaters under present cost conditions. *Calif. Citrog.* 34: 100, 136-137. Jan. 1949. 80 C492
- 29657 PEET, L. J., and MADDEN, F. And how's your light? *Iowa State Col. Agr. Ext. Iowa Farm Sci.* 3(7): 13-14. Jan. 1949. 275.28 Io94
- 29658 WILSON, E. B. What about radiant heating? *Mont. Farmer-Stockman* 36(9): 8-9. Jan. 1, 1949. 6 M764

Power Plants, Motors and Engines on the Farm

- 29659 BAINBRIDGE, C. G. Engine care. 2. *Gt. Brit. Min. Agr. Agriculture* 55: 387-391. Dec. 1948. 10 G79J
- 29660 FERA, B. The wind, big energy source for Sardinia. (In Italian.) *Agr. Sarda* 25: 309, 311, 313. Oct./Nov. 1948. 16 Ag825
- 29661 MICKL, J. Die durchströmturbine—ein mittel zur wirtschaftlichen ausnutzung von kleinwasserkraften. *Kärntner Bauer* 98: 396-398. Dec. 1, 1948. 19 K14

Sewage and Waste Disposal

- 29662 BEATY, H. Safe sewage disposal. *Iowa State Col. Agr. Ext. Iowa Farm Sci.* 3(7): 7-8. Jan. 1949. 275.28 Io94
- 29663 DICKINSON, E. M. A disposal pit for dead chickens and turkeys. *Oreg. Agr. Expt. Sta. C. Inform.* 444, 3 p. Dec. 1948. 100 Or3C

Telephones

- 29664 THE RURAL telephone; will the Poage bill pass? A special report on the three-day hearings. *Co-op Power* 6(3): A-H. Mar. 1949. 335.8 C78

Water Supply

- 29665 ANGSTER, H. C. The outlook for water systems sales. *Impl. & Tractor* 64(1): 75. Jan. 8, 1949. 58.8 W41
- 29666 BILLAUX, Encore les sourciers? *Génie Rural* 41: 314. Nov. 1948. 58.8 Au8
- Location of underground water by divination.
- 29667 BROOKS, W. W. Electric water systems. *Mont. Farmer-Stockman* 36(11): 20. Feb. 1, 1949. 6 M764
- 29668 DEROSE, R. L. Farm water system life line of farm. *Nebr. Elect. Farmer* 3(2): 16-17. Feb. 1949. 335.8 N27
- 29669 EISEN, E. Fortschrittlich und doch billig! *Neue Mitt. f. die Landw.* 3: 232-233. Aug. 5, 1948. 18 N39
- Describes the construction of a farmhouse water heating unit.
- 29670 ERMERT, O. Die verstopfung von dränungen. *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 332. Nov. 27, 1948. 18 L2346
- 29671 GIANNINI, A. The international water conservancy system in its relations with agriculture. *Food & Agr., Internatl. Law J.* 3: 30-42. Jan./June 1948. 281.8 F732
- 29672 NOVOSIL'TSEV, A. Attention to the hydraulic ram! Technical problems of rural water supply. (In Russian.) *Sel'sk. Stroitel'* 1947(8): 20-22. Oct./Nov. 1947. 296.28 Se4
- 29673 PAPE, C. H. Wells and contamination of wells. (In Danish.) *Nord. Mejeri-Tidsskr.* 14: 143-144. 1948. 44.8 N752
- 29674 PFINGSTEN, A. A. Off peak water heaters and radiators in milkhouses. *Farm Electrification* 3(1): 36-40. Jan./Feb. 1949. 335.8 F224
- 29675 SERS, J. Assurez le filtrage de l'eau que vous envoyez à votre réservoir ou à votre citerne. *Rustica* 22: 27. Jan. 9, 1949. 14 R92
- 29676 SHANK, N. Running water for your farm home. *Iowa. Agr. Expt. Sta. B. P94*, p. 131-160. Aug. 1948. 100 Io9

- 29677 STOVER, H. E. Farm water supply. *Kans. State Col. Agr. Ext. Rural Electrification* 4, 8 p. June 1948. 275.29 K13En
- 29678 STOVER, H. E. Filters and softeners for farm water supply. *Kans. State Col. Agr. Ext. Rural Electrification* 5, 4 p. June 1948. 275.29 K13En
- 29679 STOVER, H. E. Water pumping systems for the farm. *Kans. State Col. Agr. Ext. Rural Electrification* 6, 12 p. June 1948. 275.29 K13En
- 29680 STRANTZ, A. VON. Die warmwassererzeugung im landwirtschaftlichen haushalt. *Landtechnik* 1: 389-390. Dec. 1948. 58.8 L236
- 29681 TRENARY, O. J. Warm water on the dairy farm. *West. Farm Life* 50(21): 7. Nov. 1, 1948. 6 R153
- Water heaters.

AGRICULTURAL PRODUCTS: PROCESSING, DISTRIBUTION, AND STATISTICS

## GENERAL

- 29682 ALVARADO, E. R. Selling the Food Production Campaign. *Agr.-Com.-Indus. Life* 10(10): 8. Oct. 1948. 25 Ag8
- In the Philippines.
- 29683 BERK, W. Zur verbesserung des abrechnungswesens auf dem gebiet der ernährungswirtschaft. *Versorgung* 3: 38-40. Oct. 1948. 280.8 V61
- Russian Zone of Germany.
- 29684 BIRCHARD, R. E. Europe's critical food situation. *Econ. Geog.* 24: 274-282. Oct. 1948. 278.8 Ec7
- 29685 BORIGHT, T. A. California's money crops hit hard by big freeze. *Com. West* 97(3): 66-67. Jan. 15, 1949. 286.8 C733
- 29686 BRÜCHNER. Das eiweissproblem in der ernährung und die lebensmittelindustrie. *Getreide, Mehl u. Brot* 3(1/2): 2-5. Jan. 1949. 298.8 G33
- 29687 BUNAG, J. J. Highlights in food production. *Agr.-Com.-Indus. Life* 10(10): 4, 31. Oct. 1948. 25 Ag8
- In the Philippine Islands.
- 29688 COMMITTEE OF EUROPEAN ECONOMIC COOPERATION. Report. London, H. M. Stationery Off., 1947. 2 v. 280.17 C73
- Contains sections on food and agriculture.
- 29689 CURTIS PUBLISHING COMPANY. RESEARCH DEPT. Selected bibliography of books and articles on food. Philadelphia, 1948. 15 p. 241.64 C94
- 29690 DEVLIN, S. The food companies in 1949. *Mag. Wall St.* 83: 513-515, 536-538. Feb. 12, 1949. 286.8 M27
- 29691 DOSS, V. What price "free food"? *South. Weekly* 49(5): 3. Feb. 2, 1949. 280.8 So852
- 29692 DUKES, C. E. Bacteria in relation to domestic science. London, Oxford U. Press, 1947. 240 p. 448.2 D88B
- Food bacteria, food processing, and food poisoning.
- 29693 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Measures to alleviate the world shortage of cereals and other foodstuffs, a review of national and international efforts and their results. Washington, 1947. 83 p. 389 F738M
- 29694 FOOD PRODUCERS COUNCIL, INC. Annual meeting, Feb. 1948. Baltimore. 4 p. 280.39 F732
- 29695 GERMANY (TERRITORY UNDER ALLIED OCCUPATION) U. S.-BRITISH BIPARTITE FOOD AND AGRICULTURE PANEL. Combined zones of Germany, food and agriculture requirements. n. p., 1947. 39 p. 389 G314C
- 29696 GOEDE, J. J. C. DE, and ROOKHUIZEN-ROBBERS, J. G. Onze levensmiddelen [Our foods]. Rotterdam, Nijgh & Van Ditmar, 1948. 451 p. (Huis Houd Kundige Reeks) 389 G552
- 29697 GRUNER, R. Versorgungshandel im Zweijahresplan. *Versorgung* 3: 35-36. Oct. 1948. 280.8 V61
- Russian Zone of Germany.
- 29698 GUSLER, G. Some belt tightening needed. *Wash. Farmer* 74: 14. Jan. 6, 1949. 6 R151
- Farm commodity outlook.
- 29699 HOPE, C. More population and available food production. *Seed Trade News* 52(2): 1-2. Jan. 12, 1949. 61.8 Se3



- 29700 JUNGLEISCH, M. Le Nil—vivres—cotton. Egypte Agr. 46: 107-126. (Concl.) Sept./Oct. 1948. 24 Un32
- 29701 JUSTIN, M. M., RUST, L. O., and VAIL, G. E. Foods, an introductory college course. Ed. 3. Boston, Houghton Mifflin, 1948. 723 p. Ref. (Riverside Home Econ. Ser.) 389.2 J98  
Nutrition, food habits, cookery, marketing and preservation of food.
- 29702 KIEFER, MRS. R. M. Outlook for 1949. Yankee Food Merchant 8(12): 2. Dec. 1948. 286.83 Y1  
Food industry.
- 29703 LANDESS, W. M. How we live at home. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 63(11): 18. Nov. 1948. 6 P945K  
Food production including meat.
- 29704 LEVY, E. B. Problems of food production in N. Z. Straight Furrow 8(2): 5. Dec. 15, 1948. 281.8 St8
- 29705 LOUWES, S. L. World food supply; Netherlands must increase agricultural production. (Sum.) (In Dutch.) Alg. Nederl. Zuivelbond. Off. Orgaan 40: 284-285. Dec. 15, 1948. 44.9 AL3
- 29706 MAPA, P. L. Let's solve our food problems together. Agr.-Com.-Indus. Life 10(10): 19, 26. Oct. 1948. 25 Ag8  
Shortage of food, particularly rice, in the Philippines.
- 29707 MARQUEZ, F. Our progress in food production. Agr.-Com.-Indus. Life 10(11): 19, 23. Nov. 1948. 25 Ag8  
Philippine Republic.
- 29708 MOORE, W. G. The world's wealth. New York, Penguin Books, 1947. 255 p. 280 M783  
Includes agricultural products.
- 29709 OPATSKII, L. On the way to abundance of foodstuffs. (In Russian.) Voprosy Ekonom. 1948(5): 23-36. 1948. 280.8 V89  
Food policy of U. S. S. R.
- 29710 PATTERSON, E. M. An introduction to world economics. New York, Macmillan, 1947. 704 p. 280 P2731  
Includes food resources.
- 29711 PENDHARKAR, V. G., and MURTI, V. N. Some aspects of the production and supplies of principal commodities in India during 1945-47. Reserve Bank India. B. 2: 702-712. Nov. 1948. 284.9 R31B
- 29712 RAEBURN, J. R., HUNT, K. E., and BRITTON, D. K. Supplies and prices: notes and statistics. Farm Econ. 6(1/2): 34-38. 1948. 281.8 F223
- 29713 RÉPERTOIRE des principaux établissements de la Martinique, financiers, commerciaux, agricoles, industriels, etc. Marchés Colon. 5: 240-244. Jan. 29, 1949. 286.8 M33
- 29714 ROGERS, W. Business should be good for first half of 1949. Canner 108(1): 44. Jan. 1, 1949. 286.83 C16
- 29715 SÄKK, K. Food production in Denmark during and after the second world war. (In Swedish.) Sweden. Kommerskol. Jordbruksekonom. Uppgifter. 11: 3-12. Jan. 1949. 257.3 J76
- 29716 SCHAIK, D. F. VAN. Food facts for Netherlands. J. Home Econ. 40: 527. Nov. 1948. 321.8 J82
- 29717 SCHLÖGL, A. Es besteht kein anlass zur beunruhigung. Ernährungsdienst 3(67): 2. Dec. 16, 1948. 389.8 Er62  
Food situation in Germany.
- 29718 ULIN, R. FI outlook for '49; industry faces year of adjustment. Food Indus. 21: 77-78, 193. Jan. 1949. 389.8 F737
- 29719 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. World food situation, 1949. U. S. Off. Foreign Agr. Relat. WFP-1-49, 60 p. Jan. 12, 1949. 1.943 F7625
- 29720 VALENTINI, M. What is happening in the case of European food. (In Italian.) Terra [Firenze] 59(50): 1. Dec. 12, 1948. 16 T274
- 29721 WILLIAMS, T. Food production: what is required of British farmers. Scot. Farmer 56: 1490. Dec. 25, 1948. 10 Sco8
- 29722 WILLIS, P. S. Food seen two-way business between farmer, processor. Rur. Mktg. 4(2): 2. Feb. 1949. 280.328 R88
- 29723 WILLIS, P. S. Steps to be taken. Food Packer 30(2): 41. Feb. 1949. 286.83 C165

- 29724 WILLIS, P. S. Use common sense when you review the food situation. Canner 108(3): 14. Jan. 15, 1949. 286.83 C16
- 29725 WOMERSLEY, A. S. Growing food for Britain. Co-op. News 4052: 5. Jan. 29, 1949. 280.28 C7897
- 29726 WOOD, E. J. Australia's future food requirements. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 1(4): 13-14. Oct. 1948. 281.9 Au73  
Also in Farmers' Weekly [Perth] 2(21): 2. Dec. 2, 1948. 23 F227
- 29727 ZIEGELMAYER, W. Drei jahre ernährungswirtschaft in der Ostzone. Berlin, Deutscher Zentralverlag, 1948. 126 p. (Handel und Versorgung) 389 Z63D
- 29728 ZIMMERMAN, M. M. Surveying Europe's food picture. 1. Super Mkt. Merchandising 14(2): 35, 37-38, 40, 42-43. Feb. 1949. 389.8 Su7
- 29729 ZOTOV, V. P. Pishchevaia promyshlennost' v novoi platiletke [The food industry in the new Five-Year Plan]. Moskva, 1948. 29 p. 389 Z7P

## ANALYSIS AND COMPOSITION

- 29730 CRUESS, W. V., and PEN HO, F. Studies of frozen food samples bought in the open market. I. Frozen Food Indus. 4(12): 17, 19. (To be cont.) Dec. 1948. 389.8 F93
- 29731 FERNÁNDEZ, O., and others. Estudio químico de varias féculas. 3. Ion 8: 645-649. Oct. 1948. 385 Io6  
R. Olalla, E. Martinez, and R. L. Larrañeta, joint authors.
- 29732 HALSEY, L. Laboratory on wheels. Canner 108(1): 24-26, 54, 56. Jan. 1, 1949. 286.83 C16
- 29733 LAHOUSSE, J. Les procédés optiques de dosage des vitamines A et D. V. Chim. & Indus. 60: 559-569. Ref. Dec. 1948. 383 C42
- 29734 LORANT, G., and WIEGAND, E. H. Testing acceptability of food products; taste test procedure. Oreg. Agr. Expt. Sta. C. Inform. 446, 2 p. Jan. 1949. 100 Or3C
- 29735 OREGON. AGRICULTURAL EXPERIMENT STATION. Taste test procedure. Corvallis? 1948. 3 p. 389 Cr32
- 29736 OVERMAN, A., and LI, J. C. R. Dependability of food judges as indicated by an analysis of scores of a food-tasting panel. Food Res. 13: 441-449. Nov./Dec. 1948. 389.8 F7322
- 29737 ROTH, H. Die chemische bestimmung des vitamins B<sub>1</sub> in nahrungsmitteln und körperflüssigkeiten. Internatl. Z. f. Vitaminforsch. 19: 309-330. Ref. 1948. 389.8 Z33  
Summary in French and English.
- 29738 TAUBER, H. The chemistry and technology of enzymes. New York, Wiley, 1949. 550 p. 390 T19C  
Contains chapters on enzymes in food products.
- 29739 VAN DERLINDEN, L. Complete food analyses. New Agr. 31(3): 9-10. Dec. 1948. 66.8 Su32

## CONSUMPTION AND UTILIZATION

- 29740 ACENA, B. Proper utilization and preservation of farm products to bolster farm economy. Agr.-Com.-Indus. Life 10(10): 17. Oct. 1948. 25 Ag8  
Philippine Republic.
- 29741 ARNST, A. Chemurgic magic in sulphite pulp. Chemurgic Digest 8(1): 4-7. Jan. 1949. 381 N213Na
- 29742 BARBER, M. I. How we like refrigerated foods: from a home economist. Ice & Refrig. 116(1): 50. Jan. 1949. 295.8 Ic2
- 29743 BATHURST, E. G. Your life in the country. New York, McGraw-Hill, 1948. 399 p. 281.2 B32  
Consumer education.
- 29744 LOGAN, P. How we like refrigerated foods: the restaurant industry speaks. Ice & Refrig. 116(1): 49-50. Jan. 1949. 295.8 Ic2
- 29745 MORESCO, D. E. Aspectos económicos de la quimiurgia. Industria 65: 675-679. Oct. 1948. 297.9 So1
- 29746 RUGGIERI, P. R. Waste and recovery. (In Italian.) Risveglio Agr. 7: 360. Oct. 15/31, 1948. 16 R49  
Need for using agricultural byproducts.



29747 SCUDDER, F. The role of consumer education. *Ext. Serv. Rev.* 20: 10-11. Jan. 1949.  
1 Ex892Ex

29748 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family food consumption in Birmingham, Alabama, winter 1948. U. S. Bur. Human Nutr. and Home Econ. Food Consumption Surveys. Prelim. Rpt. 1, 30 p. Nov. 22, 1948. 1.982 A2F38

29749 WILSON, H. The utilization of waste products. II. So. African Indus. Chem. 2: 172-176. (Cont.) Sept. 1948. 385 So8

#### DISTRIBUTION, MARKETING, AND TRANSPORTATION

29750 AMERICAN INSTITUTE OF FOOD DISTRIBUTION, INC. Outlook for food sales in 1949. 1948. 32 p. 389.9 Am38

29751 ANDELSUDVALGET. Cooperative organizations in Denmark in the year 1947. (In Danish.) *Andelsblad* 49: 1449-1453. Dec. 2, 1948. 280.28 An2

29752 BAER, J. B., and SAXON, O. G. Commodity exchanges and futures trading; principles and operating methods. New York?, Harper, 1949. 324 p. 284 B14C

29753 BATTARD, J. Les magasins d'alimentation aux Etats-Unis. *Vivres* 3(11): 7-10. Nov. 1948. 389.8 V832

29754 BLUMLEIN, J. The role of the wholesaler and processor in the marketing of California's agricultural products. *Blue Anchor* 26(1): 20-21, 38-39. Feb. 1949. 286.83 B62

29755 BOB WHITE ORGANIZATION. Chicago's \$1,200,000,000 food market. Chicago, 1948? 60 p. 225 B632

29756 COBB, L. R. Advertising Colorado products. *Colo. Rancher & Farmer* 3: 7. Jan. 8, 1949. 6 C714

29757 CONFERENCE ON MARKET RESEARCH, MANCHESTER, 1947. Report. Manchester, 1948? 108 p. (Manchester Joint Res. Council. Commun. Ser. 4) 280.39 C763

29758 CONVERSE, P. F., and JONES, F. M. Introduction to marketing: principles of wholesale and retail distribution. New York, Prentice-Hall, 1948. 606 p. 280.3 C76In

Includes agricultural commodities.

29759 DAVERN, H. J. Common problems of super markets and canners. *Canning Trade* 71(29): 37-38. Feb. 7, 1949. 286.83 T67

29760 DIXON, H. M. Progress report on extension marketing work under the Research and Marketing Act. Washington, U. S. Ext. Serv., 1948. 5 p. 1.913 E2D64

29761 EHRENFELD, A. Improving the merchandising of private labels. *Canning Trade* 71(29): 29-30. Feb. 7, 1949. 286.83 T67

29762 FISCHER, C. M. Industry cooperation in agricultural marketing research; a case study. *West. Farm Econ. Assoc. Proc.* (1948) 21: 109-114. 280.9 W527P

29763 FRASER, F. A team job of merchandising. *Canning Trade* 71(29): 32-33. Feb. 7, 1949. 286.83 T67

29764 FROOMAN, A. A. Five steps to effective institutional food buying. Chicago, 1948. 577 p. 389 F92

29765 GREW, R. Conference in India proposes the basis for marketing agricultural produce. *Foreign Trade* 5: 116-117. Jan. 15, 1949. 286.8 C162

29766 HAKKEN, R. J. Reefer revolution; an exclusive first report on a newly developed method of shipping frozen food without refrigerator cars. *Frosted Food Field* 8(2): 2, 4, 12. Jan. 31, 1949. 389.8 F922

29767 HARRINGTON, A. H. Industry cooperation in agricultural marketing research; an experiment station viewpoint. *West. Farm Econ. Assoc. Proc.* (1948) 21: 115-119. 280.9 W527P

29768 HENSLEY, H. C. El comercio por intermedio de las cooperativas de los productores. Uruguay. Min. de Ganad. y Agr. B. Inform. 521, l. e. 251: 6, 2. (To be cont.) Dec. 30, 1948. 9.9 G15B

29769 HOSS, R. M. Looking ahead in farm marketing. *Kans. Stockman* 33(1): 18. Nov. 1948. 49 K134

29770 HOUCK, J. P. The measures of merchandising success. *Canning Trade* 71(29): 33-35. Feb. 7, 1949. 286.83 T67

29771 JESNESS, O. B. Training requirements for marketing personnel. Washington, 1948. 6 p. 280.3 J49T

29772 JOHNSTONE, W. F. The use of marketing and economic information. *Pa. Farm Econ.* 33: 7-8. Dec. 1948. 275.29 P382Pf

29773 JONES, R. S. Who will fly the freight? *Nation's Business* 36(11): 68, 71-73. Nov. 1948. 286.8 N212

29774 LANGER, J. Wie müssen pflichtablieferungs-erzeugnisse (getreide, speisehülsenfrüchte, buchweizen und ölsaaten) abgerechnet werden. *Versorgung* 3: 40-42. Oct. 1948. 280.8 V61

Russian Zone of Germany.

29775 LESAR, J. C. Hedging; an insurance medium in marketing agricultural commodities. Chicago, Bd. of Trade, 1948. 26 p. 284 L563

29776 MCCARTNEY, G. T. A distributor points the way. *Canning Trade* 71(27): 7-8; (29): 13-14. Jan. 24, Feb. 7, 1949. 286.83 T67

29777 MANNING, O. O. Display your frozen foods to best advantage. *Freezer's J.* 3(10): 3. Feb. 1949. 295.8 So8

29778 MATHEWS, H. W. Good-will building, a factor in marketing research. *West. Farm Econ. Assoc. Proc.* (1948) 21: 124-128. 280.9 W527P

29779 MATTOS, A. DE. Markets for agricultural products. (In Portuguese.) *Lavoura* 52: 40-44. Sept./Oct. 1948. 9.2 L39

29780 MISFLEY, R. G. Industrial research as an aid to the marketing of agricultural products. *West. Farm Econ. Assoc. Proc.* (1948) 21: 120-123. 280.9 W527P

29781 MOCKLER, A. E. The wholesale grocery industry. Boston, Bellman Pub. Co., 1947. 47 p. Ref. (American Indus., 16) 286.2 M71

29782 MOTTS, G. N. Wholesale public produce markets in Michigan. *Mich. Agr. Expt. Sta. Spec. B.* 354, 72 p. Dec. 1948. 100 M58S

29783 NATIONAL CANNERS ASSOCIATION. Why arbitration? Washington, 1948. Folder. 286.390 N21

In marketing of canned goods.

29784 PEARSON, F. A., MYERS, W. I., and PAARLBERG, D. Collusion. *N. Y. Agr. Col. Farm Econ.* 165: 4242-4243. Dec. 1948. 280.8 C812

In marketing.

29785 RAGLAND, C. S. The canners part in merchandising. *Canning Trade* 71(29): 31-32. Feb. 7, 1949. 286.83 T67

29786 RAGLAND, C. S. The merchandising of canned foods. *South. Calif. Grocers J.* 36(3): 14, 18-19, 22. Feb. 4, 1949. 286.28 So82

29787 REID, T. R. Needs and opportunities for personnel in marketing. Washington, U. S. D. A., Off. of Personnel, 1948. 6 p. 1.916 A2R27

29788 ROGERS, M. T. You [locker operators] are the logical one to distribute frozen foods. *Locker Mangt.* 3(1): 12-14. Jan. 1949. 389.8 L79

29789 SCHLÖGL, A. Schutz der anständigkeit. *Landw. Wehnl.* 138: 393-394. Nov. 27, 1948. 18 L2338

Compulsory deliveries in Germany.

29790 SCUDDER, F. The role of consumer education in marketing. *J. Home Econ.* 41(1): 17-19. Jan. 1949. 321.8 J82

29791 SOCIAL SCIENCE RESEARCH COUNCIL. Annual report 1947/48. 1948. 73 p. 280.9 So12  
Includes Committee on Agricultural Marketing Research.

29792 SÖDERHOLM, R. Does even Danish agriculture move towards national organizations. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige* 19(3): 5. Jan. 15, 1949. 11 J762  
Cooperative marketing organizations.

29793 TOPF, E. Ein hamburger kaufmann schreibt zum thema: bewirtschaftung oder freier markt? *Ernährungsdienst* 3(67): 3. Dec. 16, 1948. 389.8 Er62

29794 TRIGG, R. S. The job ahead. Washington, U. S. Prod. and Mktg. Admin., 1948. 8 p. 1.956 A2T73  
U. S. Production and Marketing Administration's policies and programs.

29795 TRUCK transportation soars for frozen food cargoes. *Quick Frozen Foods* 11(6): 41-42. Jan. 1949. 389.8 Q4

29796 TURNER, C. W. Railroad service to Virginia farmers, 1828-1860. *Agr. Hist.* 22: 239-248. Oct. 1948. 30.98 Ag8



29797 UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH. DEPT. OF AGRICULTURAL ECONOMICS. The agricultural marketing acts and schemes; a critical review, with some general observations on post-war marketing aims and methods, by J. R. E. Phillips. Aberystwyth, 1948. 33 p. 280.3 Un323

29798 WILLIS, P. S. Promoting the sale of canned foods. Canning Trade 71(29): 38-39. Feb. 7, 1949. 286.83 T67

#### GRADING, INSPECTION, STANDARDIZATION AND QUALITY

29799 BALAVOINE, P. Denrées avariées par l'eau de mer. Mitt. aus dem Geb. der Lebensmitteluntersuch. u. Hygiene 39(1/3): 252-255. 1948. 389.9 Sw6  
Summary in German.

29800 BRANDIS, H. Eine nahrungsmittelinfection durch Salmonella montevideo. Z. f. Hyg. u. Infektionskrankh. 127: 259-261. 1947. 449.8 Z3

29801 CRUESS, W. V. The required properties of future processed agricultural products. Fruit Prod. J. & Amer. Food Mfr. 28(2): 40-42, 59. Oct. 1948. 389.8 F94

29802 FLORIDA. STATE CHEMIST. Annual report 1947/48. Pt. IV. Food, Drug and Cosmetic Section. Tallahassee, 1948. 19 p. 381 F66

29803 FORD, C. M. The case against ptomaine poisoning. Ala. Tuskegee Inst. Serv. 13(6): 14, 33. Jan. 1949. 280.8 Se62

29804 HINTON, C. L. Food laws in South America. 1-2. Food [London] 18(208): 7-8; (209): 36-38. Jan.-Feb. 1949. 389.8 F738

29805 KING, G. J. G. Food and disease. Roy. Sanit. Inst. J. 69(1): 5-10. Ref. Jan. 1949. 449.9 R812  
Discussion, p. 10-11.

Contaminated or infected food.

29806 LARRICK, G. P. Inspection and enforcement policies of the Food and Drug Administration. Northwest. Miller, Milling Prod. Sect. 236(6): 1a, 15a-16a. Nov. 9, 1948. 298.8 N81

29807 MATKIN, T. D. Weights and measures enquiry. Fruit, Flower & Veg. Trades' J. 94: 819. Dec. 11, 1948. 80 F946

29808 MEEK, F. G. Food hygiene. Roy. Sanit. Inst. J. 69(1): 51-54. Jan. 1949. 449.9 R812  
Discussion, p. 54-55.

29809 PETERS, J. Poisoning makes headline news. Manitoba Co-op. 6(27): 8. Feb. 3, 1949. 280.28 M31  
Pure food and drug legislation in Canada.

29810 WILLIAMS, O. B., and MRAK, E. M. An interesting outbreak of yeast spoilage in salad dressing. Fruit Prod. J. & Amer. Food Mfr. 28: 141, 153. Jan. 1949. 389.8 F94

#### PACKING AND PACKAGING

29811 ALUMINUM WARES ASSOCIATION. Facts pertaining to the healthfulness of aluminum cooking utensils. Pittsburgh, 1947? 20 p. 391 AL8F

29812 BECKER, H. K. Packaging machinery makers see busy 1949. Spice Mill 72(1): 54. Jan. 1949. 389.8 Sp4

29813 CANADA. BUR. OF STATISTICS. INDUSTRY AND MERCHANDISING DIVISION. GENERAL MANUFACTURES SECT. Report on the cotton & jute bag industry in Canada, 1947. 1949. 10 p. 253 C332I

29814 COOPER, R. A. Packaging for uniformity; uniform bagging operation of dried food products by western food store system establishes quality control in merchandising. Packaging Systems 5(1): 8-9. Jan. 1949. 309.8 P126

29815 DODSON, G. F. Pallet operations in "country" cold storage warehouse. Distrib. Age 48(2): 36, 40, 51. Feb. 1949. 288.8 T68

29816 DUVAL, J. La normalisation des emballages. Emballages 109: 21-29. Nov./Dec. 1948. 309.8 Em1

29817 ENGLAND, F. Food packaging; progress in 1948. Food Manufacture 24: 70-73. Feb. 1, 1949. 389.8 F736

29818 FAIRBROTHER, D. Now pallets—why? Amer. Eagle 5(9): 8-9, 20. Sept. 1948. 99.82 Am32

29819 GOODALE, R. P. Wet-strength papers find new applications in packaging moist food products. Food Indus. 21: 102-103. Jan. 1949. 389.8 F737

29820 HAMMOND, A. E. Packaging quick-frozen foods. Food [London] 18(208): 13-14. Jan. 1949. 389.8 F738

29821 HOW TO use today's wraps most effectively. 14. Locker Mangt. 3(1): 26-27. Jan. 1949. 389.8 L79

29822 MANYPENNY, G. O., comp. Glossary of packaging terms. New York, Packaging Inst., 1948. 187 p. 280.3 M312

29823 MAY, A. Selection of glass packages assured by careful labelling. III. Food Canada 9(1): 20, 22-23. Jan. 1949. 389.8 F7323

29824 SIMPLIFICATION of container sizes; a Super Market Merchandising research panel survey. Super Mkt. Merchandising 14(2): 55, 57-58, 61-62. Feb. 1949. 389.8 Su7

29825 SINGER, R., and TAUBER, F. W. Food uses for vinyl-nitrile; a report on the properties of this important new film for packaging products other than oleomargarine. Mod. Packaging 22(6): 125-127, 180, 182. Feb. 1949. 309.8 M72

29826 TENNEY, R. I. Alkyl aryl sulphonates improve bottle washing. Food Indus. 21: 159-163, 288-289. Feb. 1949. 389.8 F737

29827 WOOD, B. Glass containers push for expanded markets. Spice Mill 72(1): 54. Jan. 1949. 389.8 Sp4

29828 WOODROOF, J. G., and RABAK, W. Protective packaging of frozen foods. Refrig. Engin. 57(1, Refrig. Engin. Appl. Data 34-R), 4 p. Jan. 1949. 295.9 Am32J

29829 ZIMMERMAN, L. R. Packaging outlook for 1949. Natl. Food Distrib. J. 21(9): 23-24. Jan. 1949. 286.28 N212

#### PRICES, PRICE CONTROL, AND RATIONING

29830 AIKEN, G. D. Aiken supports sliding support price legislation. Farmers Union Herald 22(24): 8. Dec. 24, 1948. 280.28 F224

29831 AUSTERN, H. T. Crystal clear confusion—the new legal rules for pricing goods. Canning Trade 71(29): 20-25. Feb. 7, 1949. 286.83 T67

29832 BAGGE, F. Agricultural prices; a survey for year 1948. (In Swedish.) Lantmannen 33: 56-60. Jan. 22, 1949. 11 L234

29833 BERNARD, P. Prix agricoles et prix industriels [France]. Monit. Agr. 2(52): 2. Jan. 9, 1949. 14 M744

29834 BOGER, L. L. Seasonal price changes of major Michigan farm products. Mich. Agr. Expt. Sta. Spec. B. 355, 52 p. Jan. 1949. 100 M585

29835 BRANDOW, G. E. The future role of support prices. Pa. Farm Econ. 33: 1-3. Dec. 1948. 275.29 P382Pf

29836 BURTON, G. L. Prices may go higher [in Canada]. MacDonald Col. J. 9(4): 2, 4. Dec. 1948. 101 M144

29837 CANADA. BUR. OF STATISTICS. PRICES BRANCH. Prices and price indexes, 1944-1947, volume 21. 1948. 115 p. 284.39 C16P

Includes agricultural products and commodities and services used by farmers.

29838 CANONGE, H. Prix agricoles et fiscalité. Libération Paysanne 5(195): 5. Dec. 23, 1948. 14 L61

29839 CANONGE, H. Vers une nouvelle hausse des prix? Libération Paysanne 5(198): 5. Jan. 13, 1949. 14 L61  
France.

29840 CORBALEY, G. C. Outlook for food prices. South. Calif. Grocers J. 36(4): 3, 14-15. Feb. 11, 1949. 286.28 So82

29841 CURTISS, W. M. Farm price support raises many questions all should understand. Natl. Live Stock Prod. 27(5): 10, 16. Feb. 1949. 280.38 N21

29842 DE TRUDE, L. D., and NISHIMURA, W. Feeding the family: 1914 and 1948. Natl. Indus. Conf. Bd. Management Rec. 10: 576-578. Dec. 1948. 283.9 N212Cc  
Food price trends.

29843 DE TRUDE, L. D., and NISHIMURA, W. Why food prices are high. Natl. Indus. Conf. Bd. Business Rec. 5: 491. Dec. 1948. 280.9 N216Cb

29844 FOLEY, W. T. Farmers Union leaders call sliding parity unfair. Farmer [St. Paul] Gen. Ed. 67: 7, 30. Jan. 1, 1949. 6 F2211

29845 FRY, H. S. Are farm prices due to fall? Country Guide 68: 7, 30-31. Jan. 1949. 7 G76



- 29846 HAMMARLUND, B. The price development in USA. (In Swedish.) *Lantmannen* 33: 89. Feb. 5, 1949. 11 L234  
Its effect on farm income.
- 29847 HANAU, A. Zur frage der deutschen preis-politik für landwirtschaftliche erzeugnisse. Braun-schweig-Völkenrode, 1948. 9 p. 284.3 H19Z
- 29848 INDIA. COMMODITY PRICES BOARD. Re-ports; edited by N. V. Sovani. Gokhale Inst. Politics and Econ. P. 20, 238 p. 1948. 280.9 G56  
Prices of agricultural products.
- 29849 INTERNATIONAL LABOR OFF. Costs-of living statistics, methods and techniques for the post-war period; report prepared for the sixth International Conference of Labor Statisticians (Montreal, 4-12 August 1947) Geneva, 1947. 56 p. (Its Studies and Rpts. n. s., 7, pt. 2) 284.4 In8C  
Includes foods.
- 29850 JOHNSON, D. G. Agricultural price policy—1948 style. *Farm Policy Forum* 2(1): 18-21. Jan. 1949. 281.8 F2274
- 29851 KAMMERLOHR, K. Freie wirtschaft - hohe preise. *Landtechnik* 3: 383. Oct. 31, 1948. 58.8 L235
- 29852 KOFFSKY, N. Strong demand expected to hold prices near '48 level. *Ind. Farmers Guide* 105: 2. Jan. 1, 1949. 6 In2
- 29853 KRUSE, E. F. Problems of the Commodity Credit Corporation and their relation to the Production and Marketing Administration. Washington? U. S. Prod. and Mktg. Admin., 1948. 5 p. 1.96 A2K94  
Chiefly the price support program.
- 29854 MCNEELY, J. G., SCHLOTZHAUER, E. O., and CHILDS, V. C. Texas farm commodity prices. *Tex. Agr. Expt. Sta. B.* 700, 89 p. July 1948. 100 T31S
- 29855 PADBERG. Das preisbild der landwirtschaft. *Wirtsch. Ztg.* 3(54): 7. Nov. 27, 1948. 280.8 W742  
Germany.
- 29856 PELLIZZARI, C. Prices and agriculture. (In Italian.) *Agr. Bresciana* 1(42): 1. Oct. 20, 1948. 16 Ag89
- 29857 RENNEFELD. Steine! *Landtechnik* 3: 439-440. Nov. 30, 1948. 58.8 L235  
Protest against high prices of agricultural products in Germany.
- 29858 RHODES, N. Parity. For Sale, Want & Exch. B. 11(7): 1. Jan. 15, 1949. 280.28 F74
- 29859 ROBINSON, P. R. Quality products supplied to distributive trades at fair price. *Food Canada* 9(1): 12-13. Jan. 1949. 389.8 F7323
- 29860 SANDIFER, T. N. Congress will hesitate be-fore voting controls. *Natl. Live Stock Prod.* 27(5): 13. Feb. 1949. 280.38 N21  
Price control.
- 29861 SHEPHERD, G. Sizing up the new farm price law; here is an appraisal of the price support provisions of the Agricultural Act of 1948. *Farm Policy Forum* 2(1): 61-64. Jan. 1949. 281.8 F2274
- 29862 STEDEN, A. Die agrarpreisregelung—gesamt-wirtschaftlich gesehen. *Pflug* 1: 159-161. Oct. 1948. 19 P48  
Germany.
- 29863 TRIGG, R. S. The price support picture for 1949. Washington? U. S. Prod. and Mktg. Admin., 1949. 5 p. 1.956 A2T73
- 29864 U. S. BUR. OF LABOR STATISTICS. Retail prices of food 1946 and 1947. U. S. Dept. Labor Statis. B. 938, 58 p. 1948. 158.6 B87
- 29865 WHAT IS the price-support program. *East. Union Farmer* 7(1): 6-7. Jan. 1949. 280.28 Ea72
- PROCESSING AND STORAGE
- 29866 ABRAHAMSEN, M. Popular frozen foods are here to stay! *South. Agr.* 78, i. e., 79: 42. Jan. 1949. 6 So83
- 29867 ALSTRAND, D. V., and ROYCE, R. The prac-tical value of careful retort operation. *Fruit Prod. J. & Amer. Food Mfr.* 28: 172-174, 186. Feb. 1949. 389.8 F94
- 29868 AMERICAN WAREHOUSEMEN'S ASSOCIATION. Proceedings of the fifty-seventh annual meeting, Febru-ary 9-12, 1948. Washington, 1948. 541 p. 297.9 Am32
- 29869 APPEL, V. O. The Refrigeration Research Foundation—its accomplishments and future plans. *Ice & Refrig.* 116(1): 41-42. Jan. 1949. 295.8 Ic2
- 29870 ATKIN, L. Basic principles of culturing and production. (Abs.) *Canner* 107(20): 24. Nov. 13, 1948. 286.83 C16
- 29871 BARNEBEY, T. Air purification process aid-ing food industry. *Freezer's J.* 3(9): 14-15. Jan. 1949. 295.8 So8  
In food storage.
- 29872 BARTON-WRIGHT, E. C., and DAWSON, E. R. Report for 1947 on the fermentation industries. *Brewers Digest* 24(1): 42-45, 48. Ref. Jan. 1949. 390.8 B75
- 29873 BAXTER, J. L. A canner looks at the canned foods industry. *Canner* 108(4): 18, 20-21. Jan. 22, 1949. 286.83 C16  
Also in *Food Packer* 30(2): 62, 64. Feb. 1949. 286.83 C165; and in *Canning Trade* 71(29): 11-13. Feb. 7, 1949. 286.83 T67
- 29874 BECK, C. Why size is of first importance in choosing a home freezer. *What's New Home Econ.* 13 (3): 120. Nov. 1948. 321.8 W55
- 29875 BECKER, F. J. Refrigeration research and frozen foods. *Ice & Refrig.* 116(2): 55-56. Feb. 1949. 295.8 Ic2
- 29876 BRANDT, E. Refrigerated warehouses—1949 plants and methods. *Ice & Refrig.* 116(1): 32-35. Jan. 1949. 295.8 Ic2
- 29877 CAMERON, E. J. Some newer concepts in quality control. *Fruit Prod. J. & Amer. Food Mfr.* 28: 144-145, 150. Jan. 1949. 389.8 F94  
Canning.
- 29878 CANADA. BUR. OF STATISTICS. INDUSTRY AND MERCHANDISING DIV. GENERAL MANUFACTURES SECT. Canned food production in Canada 1946. 1949. 20 p. 253 C332I
- 29879 COFFMAN, P. A., JR. Dry food materials now blended continuously. *Food Indus.* 21: 75-76. Jan. 1949. 389.8 F737
- 29880 CONGRÈS INTERNATIONAL DES INDUSTRIES DE FERMENTATION, 1, GHENT, 1947. Conférences et communications. Gand, 1947. 529 p. 390.09 C76
- 29881 COUILLARD, E. Preserved foods. *Quebec. Min. Health. B. Sanit.* 49(1): 13-19, 15-21. Jan./Mar. 1949. 449.75 Q35B  
English and French texts.
- 29882 CREASER, J. Is a locker a luxury? *Quick Frozen Foods* 11(6): 90-91, 103. Jan. 1949. 389.8 Q4
- 29883 CURRY, E. R. The refrigerated warehousing industry—from early days to 1949. *Ice & Refrig.* 116(1): 21-24, 26-29. Jan. 1949. 295.8 Ic2
- 29884 CURTIS, L. Freezing cooked foods. *Ala. Polytech. Inst. Agr. Ext. C.* 365, rev., 8 p. Dec. 1948. 275.29 AL1C
- 29885 DABIS, L. L., and RODGERS, P. D. Planning a frozen food business. *Va. Agr. Expt. Sta. B.* 419, 17 p. Oct. 1948. 100 V81S  
Tennessee Valley Authority cooperating.
- 29886 DANA, H. J., and MILLER, R. N. Farm and home refrigeration. *Washington. U. Engin. Expt. Sta. B.* 70, 48 p. May 1, 1947. Ref. 290.9 W272
- 29887 DAVERN, H. Efficiency can cushion coming shocks. *Super Mkt. Merchandising* 14(2): 73-75, 77. Feb. 1949. 389.8 Su7  
Canned foods.
- 29888 DAWSON, E. H., and others. Seal and head-space studies in home canning. *J. Home Econ.* 41(1): 27-29. Jan. 1949. 321.8 J82  
G. L. Gilpin, E. W. Toepfer, and E. L. Batchelder, joint authors.
- 29889 FALCIONI, A. C. Higiene alimenticia. *Buenos Aires. Dir. Med. Vet. B.* 5(23/26): 41-44. 1948. 41.9 B865  
Preservation of food.
- 29890 FAURE, A. Situation présente et perspectives d'avenir de l'industrie frigorifique française. *Rev. Prat. du Froid* 4(3): 7-14. Dec. 1948. 295.8 R323
- 29891 GANE, R. Biological aspects of food preserva-tion. *Mod. Refrig.* 52(610): 13-14. Jan. 1949. 295.8 M72
- 29892 GUNDRY, B. G. A charcoal safe or cooler. *Rhodesia Agr. J.* 45: 302-305. July/Aug. 1948. 24 R34  
Construction directions.
- 29893 HAND, D. B. Food processing research at Geneva. *Farm Res. [N. Y. State Sta.]* 15: 4. Jan. 1949. 100 N48A



- 29894 HARRIS, E. E. Food-yeast production from wood-processing byproducts. (Abs.) Canner 107(20): 23. Nov. 13, 1948. 286.83 C16
- 29895 HILL, T. N. S. 1949 outlook for the preserve industry. Canner 108(1): 46, 56. Jan. 1, 1949. 286.83 C16
- 29896 HORSEY, J. W. A code of processing ethics. Food Canada 9(10): 16. Jan. 1949. 389.8 F7323
- 29897 HUSTRULID, A., WINTER, J. D., and NOBLE, I. How do fluctuating storage temperatures affect frozen foods? Refrig. Engin. 57(1): 38-41, 88. Jan. 1949. 295.9 Am32J
- 29898 JOHNSON, C. E. Variable-speed drives solve processing problems in food plants. Food Indus. 21: 60-63. Jan. 1949. 389.8 F737
- 29899 JOSLYN, M. A. Nutrient requirements of yeast. (Abs.) Canner 107(20): 26. Nov. 13, 1948. 286.83 C16
- 29900 KING, J. P. Contracts with grower organizations. Canning Trade 71(29): 50. Feb. 7, 1949. 286.83 T67
- 29901 KINN, T. P. These charts quickly analyze di-electric heating. Food Indus. 21: 151-152. Feb. 1949. 389.8 F737
- 29902 KNIGHT, W. H., and MARTIN, J. W. Farm freezers. Idaho. Agr. Col. Ext. Farm Electrification Leaflet 3, 4 p. July 15, 1948. 275.29 Id13Fa
- 29903 KRAUSE, F. A. The Wisconsin canning industry. Wis. Com. Papers 1(1), 161 p. Nov. 1948. 389.3 K86
- 29904 KREWATCH, A. V. A home freezer record: where is it? how much is left? how old is it? Elect. on the Farm Mag. 22(1): 12. Jan. 1949. 335.8 EL27
- 29905 MANLY, H. P. Drake's refrigeration service manual. Chicago, Drake, 1948. 317 p. 295 M313
- 29906 MARTELLI, H. L. Citric fermentation with *Aspergillus niger* in laboratories. (In Portuguese.) Quimica 4(1): 5-9. Jan./Feb. 1948. 385 Q42
- 29907 MASON, L. B. Canners' choice. Food Packer 30(2): 44. Feb. 1949. 286.83 C165  
Also in Canning Trade 71(29): 25-27. Feb. 7, 1949. 286.83 T67
- 29908 MEAGHER, J. F. What research means to the warehousing industry. Ice & Refrig. 116(1): 45. Jan. 1949. 295.8 Ic2
- 29909 MEYER, J. Single control instrument for all retort cooking cycles. Fruit Prod. J. & Amer. Food Mfr. 28: 142-143. Jan. 1949. 389.8 F94
- 29910 MITCHELL, T. Cooperatives provide refrigeration center for Virginia community. Ice & Refrig. 116(2): 29-30, 72. Feb. 1949. 295.8 Ic2
- 29911 MITCHELL, W. Facts and figures about quick-freeze. Grocer 169(4535): 12-13. Dec. 25, 1948. 286.83 G895  
Great Britain.
- 29912 MOORE, W. A. The cold storage industry in the South. Amer. Egg & Poultry Rev. 10(1): 33. Jan. 1949. 47.8 Am38
- 29913 MOREINIS, I. A. Uchebnik pishchevoy gigieny [Textbook on food sanitation]. Ed. 2. Moskva, "Medgiz", 1948. 274 p. 389.4 M81
- 29914 NAIR, J. H. British food processors make best of bad situation. Food Indus. 21: 146-149. Feb. 1949. 389.8 F737
- 29915 NELSON, P. Do home freezers pay? Iowa. State Col. Agr. Ext. Iowa Farm Sci. 3(6): 15-16. Dec. 1948. 275.28 Io94
- 29916 PAVLOVSKI, W. L. A distributor looks at 1948 and forecasts for 1949. Quick Frozen Foods 11(7): 41-42. Feb. 1949. 389.8 Q4
- 29917 POULTNEY, S. V. Vinegar products. 10-11. Food [London] 18(208): 19-22; (209): 46-48. Jan.-Feb. 1949. 389.8 F738
- 29918 RAMAGE, W. D., and THOMPSON, J. H. The production of yeast from agricultural wastes. (Abs.) Canner 107(20): 24. Nov. 13, 1948. 286.83 C16
- 29919 RICE, I. L. Sales-leasing for frozen foods packers. II. Quick Frozen Foods 11(7): 51, 80. Feb. 1949. 389.8 Q4
- 29920 ROBINSON, P. R. Plan today! Canad. Food Indus. 20(1): 39, 41. Jan. 1949. 286.83 C166
- 29921 ROSE, A., and ROSE, E. Distillation literature, index and abstracts, 1941-1945; with the cooperation of the American Chemical Society and the assistance of Reagan Houston [and others]. State College, Pa., 1948. 191 p. 241.64 R72
- 29922 ROWLAND, J. L., and FRITZ, J. H. New approach to food-handler training. J. Milk & Food Technol. 12(1): 23-30. Jan./Feb. 1949. 44.8 J824
- 29923 SCHILLE, W. H. A marketing analyst looks at the canned foods industry. Canning Trade 71(29): 9-11. Feb. 7, 1949. 286.83 T67
- 29924 SCULL, R. S. Observations on use of stainless steel and chromium plating for the food industry. Fruit Prod. J. & Amer. Food Mfr. 28: 179-181, 188. Feb. 1949. 389.8 F94
- 29925 SINGLETON, G. Research and control result in year round packing. Quick Frozen Foods 11(6): 44-45, 80. Jan. 1949. 389.8 Q4
- 29926 SMITH, H. L. Random notes on deaeration. Canner 108(1): 34, 36, 38. Jan. 1, 1949. 286.83 C16
- 29927 STEIN, H. Richtiges einmachen. Berlin, Siebeneicher, Verlag, 1947. 55 p. 389.3 St32
- 29928 STEWART, D. A. Compacting by vibration. Food [London] 18(209): 57. Feb. 1949. 389.8 F738
- 29929 STOVER, H. E. The home frozen food storage locker. Kans. State Col. Agr. Ext. Rural Electrification 7, 4 p. June 1, 1948. 275.29 K13En
- 29930 SWEENEY, E. What we have found out about frozen foods. J. Home Econ. 41(1): 25-26. Jan. 1949. 321.8 J82
- 29931 TÄUFEL, K. Qualitätserhaltende Verarbeitung von lebensmitteln. Versorgung 3: 43-44. Oct. 1948. 280.8 V61
- 29932 THEVENOT, R. L'équipement frigorifique et la chaîne du froid. Cahiers des Ingén. Agron. 3(39/40): 31-34. Sept./Oct. 1948. 14 C112  
France.
- 29933 TURNER, A. W. Importance of newly developed methods to process and store farm crops. Edison Elect. Inst. B. 16: 419-421. Dec. 1948. 335.8 Ed4
- 29934 VERHULST, M. P. Reviewing our contracts. Canning Trade 71(29): 45-46, 48. Feb. 7, 1949. 286.83 T67  
Grower-canner contracts.
- 29935 WALDER, W. O. The polysaccharides, 2. Food [London] 18(208): 4-6. Jan. 1949. 389.8 F738  
In the food industry.
- 29936 WASHINGTON STATE COLLEGE. EXTENSION SERV. From freezer to table. Wash. State Col. Ext. B. 380, 12 p. Nov. 1948. 275.29 W27P  
Handling frozen foods.
- 29937 WILBUR, P. C. Canning developments for 1949. Canning Trade 71(28): 7-9, 21-22. Jan. 31, 1949. 286.83 T67
- 29938 WILBUR, P. C. Factors influencing process determination in agitating pressure cookers. Fruit Prod. J. & Amer. Food Mfr. 28: 175-178. Feb. 1949. 389.8 F94
- 29939 WILLIAMS, E. W. Don't under-estimate the future. Quick Frozen Foods 11(3): 45-47, 101-102. Oct. 1948. 389.8 Q4  
The frozen foods industry.
- 29940 ZIEMBA, J. V. New practices "up" output of prepared food mixes. Food Indus. 21: 153-158. (Cont.) Feb. 1949. 389.8 F737

## STATISTICS

- 29941 ANGLO-PALESTINE BANK, LTD. Short statistical survey of Palestine, 1946. 1947. 31 p. 269.8 An4  
Includes agricultural statistics.
- 29942 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Report on food production and the consumption of foodstuffs and nutrients in Australia, 2d, 1947. 1948. 41 p. 389.9 Au76
- 29943 BAVARIA. STATISTISCHES LANDESAMT. Statistisches Jahrbuch für Bayern, 1947. München, 1948? 432 p. 265 St23  
Includes agricultural statistics.
- 29944 CERRILLO QUILEZ, F. El censo agrícola-ganadero mundial de 1950. Siembra 1948(10): 17-18. Oct. 1948. 15 Si1
- 29945 CHRISTOPHERSEN, R. Recopilación de la estadística agrícola del Uruguay. Uruguay. Dir. de Agron. P. 96, 101 p. Montevideo, 1948. 9.9 Ur84



29946 CONNECTICUT. DEPT. OF FARMS AND MARKETS. Connecticut crop, livestock and marketing review for 1947. Conn. Dept. Farms and Mkts. Div. Mkts. B. 101, 78 p. Oct. 1948. 2 C76B Statistics.

29947 CURAÇAOS verslag, 1943; verslag van bestuur en staat van Curaçao over het jaar 1942 [Curaçao report; report of the government and state of Curaçao for the year 1942]. 1948. 195 p. 259 K83C Includes statistics for agriculture.

29948 DENMARK. STATISTISKE DEPARTMENT. Statistisk aarbog, annuaire statistique 1948. København, 1948. 332 p. 257.1 St2 Agricultural statistics included.

29949 DOMINICAN REPUBLIC. DIRECCIÓN GENERAL DE ESTADÍSTICA. Anuario estadístico, 1943. 1948. 594 p. 254.8 D719 Agricultural statistics included.

29950 EGYPT. MINISTRY OF AGRICULTURE. STATISTICAL SECT. Statistical data on the estimation of area & production of the principal Egyptian crops. (In Arabic.) Cairo, 1947. 8 p. 270 Eg99C

29951 ELY, R. J. W. Montana's production, a statistical summary of the State's industries, 1930-1948. Montana. U. Bur. Business Res. B. 12, 63 p. Missoula, 1948. 252.49 Un3

Includes statistics of agricultural production.

29952 FINLAND. CENTRALBYRÅN. Statistisk årsbok för Finland, Annuaire statistique de Finlande, 1946-47. Helsingfors, 1948. 313 p. 267.5 St2S Agricultural statistics included.

29953 GERMANY (TERRITORY UNDER ALLIED OCCUPATION, 1945-) U. S.-BRITISH BIPARTITE CONTROL OFF. Food, Agriculture and Forestry Group. Dept. 6. Statistics. Basic statistics on agriculture and food, Bizone and French zone, Germany, 1938, 1946, 1947, 1948. n. p., 1948. 48 p. 265 G313

29954 GREAT BRITAIN. CENTRAL STATISTICAL OFFICE. Annual abstract of statistics, 85th, 1937-1947. 1948. 266 p. 256.03 T67U

Contains a section on agriculture and forestry.

29955 GREAT BRITAIN. DEPT. OF COMMERCIAL INTELLIGENCE AND STATISTICS. Statistical abstract for British India... 1936-37 to 1940-41. 1948. 543 p. 269 G79St

Includes agricultural statistics.

29956 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Agricultural statistics 1940-1944: England and Wales. II. London, 1948. 118 p. 256.01 Ag82Ag

29957 HÖIJER, E. Last year's crop of the greatest importance for the economy of the country. (In Swedish.) Lantmannen 33: 4-6. Jan. 1, 1949. 11 L234

29958 HONDURAS. SUB-SECRETARIO DE FOMENTO, AGRICULTURA Y TRABAJO. Informe, 1946-1947. 1947? 215 p. 254 H75

Statistical.

29959 JAPAN. MINISTRY OF AGRICULTURE AND FORESTRY. The 23rd annual statistics. n. p., 1948. 472 p. 269.7 J274

29960 JENSEN, H. L. Crop production 1948. (In Danish.) Dansk Landbr. 68(1): 4-7. Jan. 6, 1949. 280.28 V91

29961 LEHMANN, H. Die ernährungslage in Bayern dezember 1946 bis april 1948. Bayern in Zahlen 2: 178-183. July/Aug. 1948. 265 B34

29962 LINZ, AUSTRIA. STATISTISCHES AMT. Statistisches Jahrbuch der Stadt Linz, 1st, 1946. 1947. 197 p. 266 L65

Includes agriculture.

29963 MAURITIUS. CENTRAL STATISTICAL OFFICE. Year book of statistics, No. 2, 1947. Sept. 1948. 118 p. 270 M445

Contains agricultural statistics.

29964 NEBRASKA. DEPT. OF AGRICULTURE AND INSPECTION. Nebraska agricultural statistics, annual report 1946. 1948? 64 p. 2 N274

U. S. Department of Agriculture, Division of Agricultural Statistics cooperating.

29965 NORTHERN RHODESIA blue book for the year ended 31st December 1946. 1947? unpag. 270 N81 Includes statistics for agriculture.

29966 PANAMA. MINISTERIO DE AGRICULTURA, COMERCIO E INDUSTRIAS. Censo agro-pecuario de la Provincia de Herrera, diciembre, 1945. Panama, Imprenta Nacional, 1947. 167 p. 254 P1952A

29967 PANAMA. MINISTERIO DE AGRICULTURA, COMERCIO E INDUSTRIAS. Censo agro-pecuario de la Provincia de Veraguas, enero, 1948. Instrucciones a los empadronadores. Panama, Impr. Nacional, 1947. 57 p. 254 P1952Cv

29968 PIPER, W. E. Massachusetts going ahead with system of crop reporting. New England Grocery & Mkt. Mag. 17(4): 31-32. Feb. 1949. 286.83 N44A

29969 QUEBEC. BUR. DES STATISTIQUES. Études en culture et bétail sur les fermes au 1er juin 1948. 1948. 24 p. 253.8 Ag82L Text in French and English.

29970 QUEENSLAND year book, No. 8, 1947. Brisbane, Government Statistician's Off., 1948. 397 p. 271.3 St2A

Contains chapters on land and settlement, production, trade, marketing, and prices.

29971 SCOTLAND. DEPT. OF AGRICULTURE. Agricultural statistics, 1939 to 1944, Scotland. Pt. 1. Edinburgh, 1948. 199 p. 256.01 Sco82A

29972 SMITH, C. B. Mexico produced substantially higher crops during past year. Foreign Trade 5: 83-84. Jan. 8, 1949. 286.8 C162

29973 SOLBRAA, A. The Norwegian total calculation. (In Swedish.) SL-kontakt 1948: 139-140. 11 Sv28S Agricultural returns.

29974 SOUTH AUSTRALIA. STATISTICAL OFFICE. Rural production, 1947-48. Adelaide, 1948. 5 p. 271.4 St2Ru

29975 SPAIN. DIRECCIÓN GENERAL DE MARRUECOS Y COLONIAS. Anuario de estadística y catastro de la Dirección de Agricultura, 1947. Spain. Dir. de Agr. de los Territorios Españ. del Golfo de Guinea. P. 14, 201 p. 1948? 24 Sp2

29976 SPAIN. INSTITUTO NACIONAL DE ESTADÍSTICA. La verdad de España; datos estadísticos. Madrid, 1948. 44 p. 263 In73V

Contains a brief section on agriculture.

29977 TOKYO. MUNICIPAL OFF. BUR. OF STATISTICS. The extra census of agriculture, 1947. Tokyo, 1947? 20 p. 269.7 T572E

29978 TURKEY. GENERAL DIRECTORY OF STATISTICS. Small statistical abstract of Turkey 1942-1946. 1947. 559 p. 269.9 St2 Includes agriculture.

29979 UNION OF SOUTH AFRICA. UNION OFFICE OF CENSUS AND STATISTICS. Agricultural and pastoral production. Chapter XIX. Pretoria, 1948. 100 p. 270 C3320

Preprint from the Official Year Book of the Union of South Africa, and of Basutoland, Bechuanaland Protectorate and Swaziland, No. 23, 1946.

29980 U. S. BUR. OF THE CENSUS. United States census of agriculture: 1945. Special report. Farms and farm characteristics by size of farm. Washington, 1948. 190 p. 157.41 C3323Fs

29981 U. S. BUR. OF THE CENSUS. United States census of agriculture: 1945. Special report. Farms and farm characteristics by type of farm. Washington, 1948. 171 p. 157.41 C3323Ft

29982 U. S. BUR. OF THE CENSUS. United States census of agriculture: 1945. Special report. Farms and farm characteristics by value of products. Washington, 1948. 190 p. 157.41 C3323Fv

29983 U. S. LIBRARY OF CONGRESS. CENSUS LIBRARY PROJECT. National censuses and vital statistics in Europe, 1940-1948 supplement: an annotated bibliography, by H. J. D. Bester. Washington, 1948. 48 p. 242.91 Un316

29984 WESTERN AUSTRALIA. STATISTICIAN. Statistical register of Western Australia for 1945-46. V. Land settlement, agriculture, live stock, and meteorological statistics. 1948. 78 p. 271.7 R26S

29985 ZETTERBERG, O. The acreage inventory in October 1948. (In Swedish.) Sweden. Kommerskol. Jordbruksekonom. Uppgifter 10: 337-340. Dec. 1948. 257.3 J76

#### BEVERAGES AND CONDIMENTS

29986 ALEXANDER, O. R., and BISKE, V. M. Spectrographic determination of tin and aluminum in beer. Amer. Soc. Brewing Chem. Proc. Ann. Mtg. 1948. 69-75. 390.9 Am321 Discussion, p. 75.



- 29987 AMERINE, M. A. Wine production problems of California grapes. I. Wine Rev. 17(1): 18-22. Jan. 1949. 390.8 W722
- 29988 ANDERSON, E. C. How tea is handled in the U. S. Spice Mill 72(1): 43-44. Jan. 1949. 389.8 Sp4
- 29989 ANDRADE, E. DE. How to make wine vinegar. (In Portuguese.) Chacaras e Quintais 79: 39-41. Jan. 15, 1949. 9.2 C34
- 29990 ARGENTINA. SECRETARIA DE INDUSTRIA Y COMERCIO. DIRECCION DE VITIVINICULTURA. Memoria, 1947. 1948. 182 p. 390.9 Ar32M
- 29991 ARROYO, R. The Arroyo fermentation process for alcohol and light rum from blackstrap molasses. Sugar J. 11(8): 5-12. Jan. 1949. 65.8 Su391
- 29992 ASHPLANT, H. Threatened cocoa famine. India Rubber J. 116: 126, 128-130. Jan. 22, 1949. 305.8 In21
- 29993 AUSTRALIA. AUSTRALIAN WINE BD. Twentieth annual report... for year 1947-48. 1948. 15 p. 390.9 Au72
- 29994 BARTHE, E. La place du rhum des Antilles dans l'Union Française. Marchés Colon. 5: 207. Jan. 29, 1949. 286.8 M33
- 29995 BASSERMANN-JORDAN, F. Der weinbau der Pfalz im altertum. Ed. 2. Speyer, Historische Museum der Pfalz, 1947. 28 p. 390.1 B294
- 29996 BRAZIL. INSTITUTO NACIONAL DO MATE. JUNTA DELIBERATIVA. Relatório, outubro 1948. [Report October 1948] 1948. 127 p. 281.3689 B73R
- 29997 CADDOW, H. Wine position in fourth post-war year. Wine Rev. 17(1): 8-9. Jan. 1949. 390.8 W722
- 29998 CARVER, S. R. Wineries and distilleries. Australia. Bur. Census and Statis. Mfg. Indus. 1946/47, 36, 10 p. Sept. 15, 1948. 271 Au72Ma
- 29999 CASTRO, M. S. La industria cafetera del Huila. Agr. Trop. 4(12): 16-17. Dec. 15, 1948. 26 Ag8
- 30000 CHEDEVILLE, C. Les vins tunisiens de 1947 et de 1948. Voix des Colons 30(1484): 5. Dec. 27, 1948. 24 V85
- 30001 CHOUSSEY, F. Influencia de la fermentación sobre la calidad del café. Agrotecnia 2: 707-728. Oct.-Nov. 1948. 8 Ag825
- 30002 CHOUSSEY, F. Manejo del tren de fermentación del café. Agrotecnia 2: 856-858. Dec. 1948. Ag825
- 30003 CLERCK, J. DE. Cours de brasserie. Louvain, Van Linthout, 1948, v. 1, 626 p. 390.1 C59
- 30004 COCHRAN, T. C. The Pabst Brewing Company; the history of an American business. New York, New York Univ. Press, 1948. 451 p. Ref. (New York U. Graduate School of Business Admin. Business Hist. Ser.) 390.1 C643
- 30005 CROCKER, E. C., and VUCASSOVICH, M. P. Non-alcoholic beverages. Food Technol. 3(1): 14-18. Jan. 1949. 389.8 F7398
- 30006 CROCKER, E. C., and SJÖSTRÖM, L. B. Observational study of monosodium glutamate. Food Res. 13: 450-455. Nov./Dec. 1948. 389.8 F7322
- 30007 DALMASSO, G. Insufficient wine production [Italy]. (In Italian.) Gior. di Agr. 58: 349. Dec. 12, 1948. 16 It1G
- 30008 DAUPHIN, E. J. Le vin et la paix. Journée Vinic. Export 22(15): 1, 10. Dec. 1948. 390.8 J822  
Text in French and English.
- 30009 DECKERT-MARINELLI, R. Present conditions: the German [wine] market. (In Italian.) Com. Vinic. 20(38): 1. Oct. 2, 1948. 390.8 C732
- 30010 DEIBNER, L. Microdosage iodométrique du fer dans les vins et les jus de raisin. Soc. Chim. de France. B. 15: 1125-1142. Ref. Nov./Dec. 1948. 383 P21B
- 30011 DOURTHE, R. Caractéristiques des dernières récoltes en Médoc. Journée Vinic. Export 22(15): 4. Dec. 1948. 390.8 J822  
Text in French and English.
- 30012 FEDERACIÓN NACIONAL DE CAFETEROS. Informe del gerente al XVII Congreso Nacional de Cafeteros, Bogotá, julio de 1948. 1948. 77 p. 281.368 F31
- 30013 FEDERICO, L. On the origin of acetylmethylcarbinol in fermentation vinegars. (In Italian.) Ann. di Chim. Appl. 38: 619-624. Oct./Nov. 1948. 385 An7
- 30014 FERRE, L., and JAULMES, P. Les capsules en étain plombifère cause de la présence de plomb dans les vins. Acad. d'Agr. de France. Compt. Rend. 34: 864-865. Oct. 13/20, 1948. 14 P21Bc
- 30015 FESSLER, J. H. Filtration of wines. IV. Wine Rev. 17(1): 16, 25. Jan. 1949. 390.8 W722
- 30016 FESSLER, J. H. The present status of bluefining. Fruit Prod. J. & Amer. Food Mfr. 28: 167-169, 171, 187, 189. Feb. 1949. 389.8 F94  
Removal of excess heavy metals from wine.
- 30017 FISCHER, W. Aufnahme von studierenden des brauwesens mit reifevermerk oder vorsemestervermerk in Weihenstephan. Brauwelt 1948(12): 236-237. June 10, 1948. 390.8 B732
- 30018 FLANZY, and DEIBNER. Sur les dosages simultanés de SO<sub>2</sub> et SO<sub>4</sub>H<sub>2</sub> dans les jus de raisin et les vins. Indus. Agr. et Aliment. 65(1/3): 25-37. Ref. Jan./Mar. 1948. 383 As7
- 30019 FCNTANILLE, M. H. Réglementation applicable pendant la campagne 1948-1949. Voix des Colons 30(1475): 3. Oct. 25, 1948. 24 V85  
Algerian wine.
- 30020 FROLOV-BAGREEV, A. M. Sovetskoe sham-panskoe [Soviet champagne]. Ed. 2. Moskva, Pishchepromizdat, 1948. 271 p. 390.1 F922
- 30021 GADDO, F. DI. Grape and wine policy in France. (In Italian.) Ital. Agr. 85: 662-664. Nov. 1948. 16 It1
- 30022 GALTIER, G. President Jefferson and "Muscat" wines. Journée Vinic. Export 22(15): 3. Dec. 1948. 390.8 J822
- 30023 GANUCHEAU, W. J., JR. Coffee has outgrown economic infancy, future bright. Spice Mill 72(1): 11. Jan. 1949. 389.8 Sp4
- 30024 GARCIA VILLAS, M. "Centrals" coffees in 1949. Spice Mill 72(1): 13, 52. Jan. 1949. 389.8 Sp4
- 30025 GEISS, W. Die klärung der moste und weine. Österr. Weintztg. 4: 10. (Cont.) Jan. 8, 1949. 390.8 Os7
- 30026 GLASBERG, S. A. Belgian Congo coffee deliveries speeded by truck transport system. Tea & Coffee Trade J. 96(2): 24, 38. Feb. 1949. 68.8 T22
- 30027 GLÖR. Die weinernte am Bielersee. Schweiz. Z. f. Obst- u. Weinbau 57: 421-422. Nov. 20, 1948. 80 Sch9
- 30028 GODET, C. Sur la concentration des moûts et la dilution des concentrés. Mit. aus dem Geb. der Lebensmitteluntersuch. u. Hyg. 39: 391-410. 1948. 389.9 Sw6
- 30029 GOT, N. The wine of Banyuls. Journée Vinic. Export 22(14): 1-2. Nov. 1948. 390.8 J82  
Text in French and English.
- 30030 GRANT, W. S. How to win grocers to better coffee, tea support. Spice Mill 72(1): 22-23. Jan. 1949. 389.8 Sp4
- 30031 GUERCHY, J. DE. La culture du café à la Martinique. Marchés Colon. 5: 231, 233. Jan. 29, 1949. 286.8 M33
- 30032 HYDE, A. Tea weeks, "fourth meal" spear-head current program. Spice Mill 72(1): 39-40. Jan. 1949. 389.8 Sp4
- 30033 INIGO, M. La conservación del vino en verano. Campo y Suelo Argentino 32(386): 56. Dec. 1948. 9 C15
- 30034 JAEGER, H. H. Use of cans for coffee still growing. Spice Mill 72(1): 53, 55. Jan. 1949. 389.8 Sp4
- 30035 JEANSON, P. Une technique spéciale: la fabrication des vins mousseux. Monit. Agr. 2(52): 7. Jan. 9, 1949. 14 M744
- 30036 JOCTEUR-MONROZIER, L. La question des vins. Colon. Franç. de Tunisie 58(2066): 1. Sept. 25, 1948. 24 C712
- 30037 JONES, L. W. '49 to be big year for spices. Spice Mill 72(1): 47-48. Jan. 1949. 389.8 Sp4
- 30038 JONES, S. E. Spices, the essence of geography. Natl. Geog. Mag. 95: 401-420. Mar. 1949. 410 N213
- 30039 LENSE, K. F. Katechismus der brauerei-praxis. Ed. 8, enl. & rev. Nürnberg, Carl, 1948. 400 p. 390.1 L54
- 30040 LIEDERMANN, E. Wo kaufe ich ein? Ein führer durch Österreichs weinbauggebiete. Österr. Weintztg. 3: 367, 425; 4: 12, 20-21. (Cont.) Nov. 6, Dec. 25, 1948; Jan. 8, 15, 1949. 390.8 Os7
- 30041 LOUGHLIN, J. Draught of a New World vine-tage. New England Homestead 122(2): 6-7. Jan. 22, 1949. 6 N442  
Wine industry in Australia.



- 30042 LUCIANI, L. Yeasts or selected ferments in wine manufacture. (In Italian.) *Agr. Sarda* 25: 277, 279. Sept. 1948. 16 Ag825
- 30043 LUGAN, M. Le sol et le climat du Roussillon, éléments de la qualité des vins doux naturels. *Journée Vinic. Export* 22(14): 6. Nov. 1948. 390.8 J82  
Text in French and English.
- 30044 LUGAN, M. Les vendanges 1948 en Gironde. *Journée Vinic. Export* 22(15): 4, 6. Dec. 1948. 390.8 J822  
Text in French and English.
- 30045 MCLACHLAN, T. Standards for vinegar. *Food Manufacture* 24: 57-59. Feb. 1, 1949. 389.8 F736
- 30046 MADRAS. BOARD OF REVENUE. Statistics—ginger—1947—final report. Madras, 1948. 1 p. 68.9 M26
- 30047 MADRAS. BOARD OF REVENUE. Statistics—pepper—1947—final report. Madras, 1948. 1 p. 68.9 M26S
- 30048 MAMELI, L. The refermentation of wine with vinasse. (In Italian.) *Agr. Sarda* 25: 273, 275. Sept. 1948. 16 Ag825
- 30049 MARESCALCHI, A. Metabisulfite of soda in wine manufacture. (In Italian.) *Agr. Sarda* 25: 315. Oct./Nov. 1948. 16 Ag825
- 30050 MENSIO, C. A grape and wine program for France. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 179-180. Oct. 15, 1948. 16 C72
- 30051 MENSIO, C. Improvement of 1948 wines. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 191-192. Oct. 30, 1948. 16 C72
- 30052 MIR, R. M. Cuevas o cavas? *Cult. Mod.* 31: 323-324. Sept. 1948. 15 C89  
Wine storage.
- 30053 MÖBUS, W. Die brauerei. *Natur u. Nahr.* 2(19/20): 15. Oct. 1948. 80 N218B
- 30054 MONTHULE, P. Le bœck de cidre. *Monit. Agr.* 1(33): 5. Aug. 29, 1948. 14 M744
- 30055 MOSER, L. Weinpreis und weinsteuer. *Österr. Weinztg.* 4: 9-10. Jan. 8, 1949. 390.8 Os7
- 30056 NÈGRE, E. Sur la clarification des vins de pressoir continu. *Prog. Agr. et Vitic.* 1948: 301-303. Dec. 5/12, 1948. 14 P94
- 30057 NÈGRE, E. Vins piqués et conscience professionnelle. *Prog. Agr. et Vitic.* 1948: 321-322. Dec. 19, 1948. 14 P94
- 30058 NOGUÉ, C. Les vins doux naturels du Roussillon. *Journée Vinic. Export* 22(14): 1. Nov. 1948. 390.8 J82  
Text in French and English.
- 30059 OSORIO LIZARAZO, J. A. Biografía del café. II. Café de Nicaragua 5(49): 17-22. Dec. 1948. 68.28 C114
- 30060 OSTERWALDER, A. Vom mäuselgeschmack der weine, obst- und beerenweine; eine erwidern. *Schweiz. Z. f. Obst- u. Weinbau* 57: 420-421. (Concl.) Nov. 20, 1948. 80 Sch9
- 30061 PRADO, S. P. DE A. Coffee protection policy. (In Portuguese.) *São Paulo. Supt. dos Serv. do Café. B.* 23: 250-256. Apr. 1948. 68.29 Sa63  
Also in *Soc. Rur. Brasileira. Rev.* 28(338): 28-32. Nov./Dec. 1948. 9.2 B733  
Coffee marketing.
- 30062 RANSOHOFF, A. L. Green men look for steady demand. *Spice Mill* 72(1): 11, 52. Jan. 1949. 389.8 Sp4
- 30063 RAVENTÓS, J. Los vinos añejos. *Cult. Mod.* 30: 455-456. Dec. 1947. 15 C89
- 30064 ROSSKAM, W. M. Quality control needed in vanilla flavorings. *Confectionery-Ice Cream World* 41 (6): 2, 22. Feb. 11, 1949. 389.8 C767
- 30065 RUUS, P. Brewing in Finland. *Amer. Brewer* 82(1, pt. 1): 54, 56, 60. Jan. 1949. 390.8 Am3
- 30066 SCHNEGG, H. Die heferinzucht; unter besonderer berücksichtigung der einföhrung der reinzuchtheft in den betrieb und der bedienung von reinzuchtapparaten. Ed. 2, rev. Nürnberg, Carl, 1947. 156 p. (Angewandte Brauwissenschaft. 4) 390 Sch52
- 30067 SEIXAS, C. A. Drinking tests on coffees treated with insecticides for the control of coffee berry borer [Stephanoderes hampei]. (In Portuguese.) *Biológico* 14: 163-164. July 1948. 442.8 B529
- 30068 SERRE, P. Ageing the determining factor of quality in full strength wines. *Journée Vinic. Export* 22(14): 7. Nov. 1948. 390.8 J82  
Text in French and English.
- 30069 SHERWOOD, P. W. Scientific methods help improve the taste appeal of wine. *Wine & Spirit* 17(12): 13-14. Dec. 1948. 390.8 W725
- 30070 SILVA, A. DE. The future of the world tea industry. *Tea & Coffee Trade J.* 96(2): 12, 47-48. Feb. 1949. 68.8 T22
- 30071 SILVA, H. S. Elasticity of United States demand for coffee. (In Portuguese.) *Soc. Rur. Brasileira. Rev.* 28(338): 45-50. Ref. Nov./Dec. 1948. 9.2 B733
- 30072 SILVEIRA, A. H. DA. How to make orange wine. (In Portuguese.) *Lav. Arroz.* 2(22): 24. Oct. 1948. 59.8 L39
- 30073 SLATER, R. R., and FRENKEL, G. K. A study of the influences of certain variables in taste testing as applied to beer. *Amer. Soc. Brewing Chem. Proc. Ann. Mtg.* 1948: 106-111. Ref. 390.9 Am321  
Discussion, p. 111-113.
- 30074 SMALLWOOD, R. B. Tea upswing possible in '49 if—. *Spice Mill* 72(1): 39, 52. Jan. 1949. 389.8 Sp4
- 30075 STONE, I., and GRAY, P. P. Silica and tannin in worts and beers. *Amer. Soc. Brewing Chem. Proc. Ann. Mtg.* 1948: 76-94. Ref. 390.9 Am321  
Discussion, p. 94.
- 30076 STRUNZ, H. Berechtigung zur erzeugung von hausbrand nach deutschen oder alten österreichischen bestimmungen. *Wiener Bauernbündler* 1(14): 7-8. Oct. 30, 1948. 19 W632
- 30077 TARANTOLA, C. Action of metals accidentally introduced into wine. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 168-170, 180-182, 194. (To be cont.) Sept. 30, Oct. 15, 30, 1948. 16 C72
- 30078 TESTA, E. The question of coffee prices. (In Portuguese.) *São Paulo. Supt. dos Serv. do Café. B.* 23: 314-317. May 1948. 68.29 Sa63
- 30079 UKERS, W. H. The romance of coffee. *New York, Tea and Coffee Trade J. Co.*, 1948. 280 p. 68.2 Uk3R
- 30080 U. S. QUARTERMASTER CORPS. QUARTERMASTER FOOD AND CONTAINER INSTITUTE FOR THE ARMED FORCES. Flavor and acceptability of monosodium glutamate; proceedings of the symposium March 4, 1948. Chicago, 1948. 92 p. 152.71 F61  
Associates, Food and Container Institute, joint author.
- 30081 WALLERSTEIN, J. S., HALE, M. G., and ALBA, R. T. Oxidizing enzymes in brewing materials V. Peroxidase in malt adjuncts. *Wallerstein Labs. Commun.* 11: 319-322. Dec. 1948. 390.9 W15  
Summary in French and Spanish.
- 30082 WILLIAMSON, W. F. See '49 even better than '48 for coffee. *Spice Mill* 72(1): 10. Jan. 1949. 389.8 Sp4
- 30083 YANG, H. Y., and WIEGAND, E. H. Possibilities of secondary fermentation in light sweet wines. *Fruit Prod. J. & Amer. Food Mfr.* 28: 134-138, 157. Jan. 1949. 389.8 F94

## DAIRY PRODUCTS

- 30084 BENTERUD, T. Norway's dairy industry in 1948. (In Norwegian.) *Meieriposten* 38(1): 6-14. Jan. 8, 1949. 44.8 M47
- 30085 BERGE, J. Observations on the dairy industry in Iceland. (In Norwegian.) *Meieriposten* 37: 704-709. Oct. 30, 1948. 44.8 M47
- 30086 BERRO, P. P. La industria lechera en el Uruguay. *Unión Indus. Uruguaya. Rev. (ser. 4)* 51(41): 113-114. Oct. 1948. 280.8 R327
- 30087 BICHLER, J. Gründung eines molkerei- und milchgenossenschaftsverbandes im Burgenland. *Burgenländische Bauernbündler* 1(24): 2. Dec. 25, 1948. 19 B91
- 30088 BIRCH, F. M. The qualifications of a quality fieldman. *J. Milk & Food Technol.* 12(1): 52-53. Jan./Feb. 1949. 44.8 J824
- 30089 BIRCHER, R. Zur geschichte. In *Switzerland. Schweizerische Milchkommission. Die schweizerische Milchwirtschaft*, p. 1-26. Thun, 1948. 44 Sw62
- 30090 BLIXIT, I. Youngster days have changed. *Butter-fat [Vancouver]* 26(10): 4. Jan. 1949. 44.8 B98  
Labor efficiency, mastitis control, and quality milk production.
- 30091 BOEHR, J. W. 4-H dairy management. *Okla. Agr. Col. Ext. C.* 173, 39 p. 1948? 275.29 Ok41C



- 30092 BONADONNA, T. New records from the Carnation Milk Farm. (In Italian.) Ital. Agr. 85: 644-646. Nov. 1948. 16 It1
- 30093 BRIGHTMAN, M. H. We must pull together for a united dairy industry. South. Dairy Prod. J. 45(1): 98-99, 106-107, 110-111. Jan. 1949. 44.8 So83
- 30094 BURNETT, C. Wisconsin's century of dairy progress. Natl. Butter & Cheese J. 40(2): 38, 40, 42. Feb. 1949. 296.85 B98Bu
- 30095 BURNIER, A. Labor's responsibility in the future development of the dairy industry. Milk Dealer 38(4): 44, 86-87. Jan. 1949. 44.8 M595
- 30096 CAMERON, W. C. Trends in Canadian dairying. Canad. Dairy & Ice Cream J. 28(1): 32-35. Jan. 1949. 44.8 C162
- 30097 CARLINER, L. A. Ice cream across the continents. Ice Cream Field 53(1): 42-44, 63. Jan. 1949. 389.8 Ic23
- 30098 CASTLE, M. E., and GLÜCKSMANN, E. J. Dairying in Great Britain: history, economics and marketing. Dairy Indus. 14(1): 38-42. Jan. 1949. 44.8 D1427
- 30099 CHAPMAN, P. W. Cashing in on milk producing opportunities in the South. South. Dairy Prod. J. 45(1): 31, 64, 66-67. Jan. 1949. 44.8 So83
- 30100 CONNELLY, R. G. The Virginia dairy situation and outlook. Va. State Dairymen's Assoc. Ann. Conv. (1949) 42: 41, 43, 45, 47, 49, 51. 44.9 V81A
- 30101 COOPERATIVE AUDITING SERVICE, INC. Summary of comparative costs of operation, periods ending May 1, 1947 to April 30, 1948, cooperative creameries. 1948? 54 p. 284.9 C78
- 30102 CORPORACIÓN VENEZOLANA DE FOMENTO. Plan de fomento lechero, 1947. 14 p. 44.4 P68
- 30103 COWDEN, J. M., and TRELOGAN, H. C. Flexibility of operation in dairy manufacturing plants. U. S. D. A. C. 799, 40 p. Sept. 1948. 1 Ag84C
- 30104 DAIRY INDUSTRY COMMITTEE. Dairy Industry Committee fact sheet, by M. H. Brightman. Washington, 1948. 2 p. 281.344 D142D
- 30105 DAIRY INDUSTRY COMMITTEE. Where will your milk come from in 1948? Washington, Internatl. Assoc. of Ice Cream Mfrs., 1948? 1 p. 44 D144
- 30106 DURAND, L., JR. The American dairy region. J. Geog. 48(1): 1-20. Jan. 1949. 278.8 J82
- 30107 EMILSSON, E. Some observations on the reliability of some statistical calculations. (In Swedish.) Svenska Mejeritidningen: 467-468. Dec. 18, 1948. 44.8 Sv2
- Cost of operation of dairy plants.
- 30108 EMMENTAL AG, EXPORTGESELLSCHAFT FÜR SCHWEIZER KÄSE, ZOLLIKOFEN-BERN. Bericht über das geschäftsjahr 1947/1948. Schweiz. Zentbl. f. Milchw. 37: 277-279. Dec. 25, 1948. 44.8 Sch93
- 30109 ESTEVES, E. M. Some economic aspects of the organization of the dairy industry. (In Portuguese.) Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 16: 61-68. 1948. 41.8 P83
- 30110 EWALT, H. P. What makes a dairy pay? Wash. Farmer 74: 71, 88. Feb. 3, 1948. 6 R151
- 30111 FERNANDEZ-QUINTANILLA, C. Panegrico de la explotación lechera. Agricultura [Madrid] 17: 511-514. Nov. 1948. 15 Ag84
- 30112 FETTER, J. F. More goat milk; less red tape. Amer. Dairy Goat News 10(8): 11, 20. Feb. 1949. 40.18 Am34
- 30113 FREDERIKSEN, L. P. The dairy industry in 1948. (In Danish.) Andelsbladet 50: 13-14. Jan. 6, 1949. 280.28 An2
- 30114 FUNSTON, J. R. Fresh milk problems under the searchlight. So. African Dairyman 10: 415, 417. Dec. 1948. 44.8 So822
- 30115 GEMMILL, A. V. Ice cream-stick output tripled—labor, coating saved. Food Indus. 21: 176-178. Feb. 1949. 389.8 F737
- 30116 GERBER, J. Milchspezialitäten. In Switzerland. Schweizerische Milchkommision. Die schweizerische Milchwirtschaft, p. 543-548. Thun, 1948. 44 Sw62
- 30117 GLÜNDER, H. G. Die deutsche milchwirtschaft im jahre 1947. Norddeut. Molkerei- u. Käserei-Adress-Kalender (1948) 12: 61-69. 1947. 44.8 N753
- 30118 GOOD, C. M. Dairy production in India. Hoard's Dairyman 94: 167. Feb. 25, 1949. 44.8 H65
- 30119 GROOT, G. DE. The butter-margarine question. (In Friesian.) Friesch Landbouwblad 46(1): 2-3. Jan. 7, 1949. 12 F91
- 30120 HALL, I. F. What's ahead in 1949. Hoard's Dairyman 94(1): 10, 33. Jan. 10, 1949. 44.8 H65
- Dairy industry.
- 30121 HASTINGS, S. The milk problem. New Statesman & Nation 37(930): 6. Jan. 1, 1949. 280.8 N2132
- 30122 HERRINGTON, B. L. Milk and milk processing. New York, McGraw-Hill, 1948. 343 p. (McGraw-Hill P. in the Agr. Sci.) 44 H433
- 30123 HICKS, F. W. Efficiency in the dairying industry. Tasmanian J. Agr. 19: 163-167. Nov. 1948. 23 T182T
- 30124 HIGGS, C. Dairy farming—changes ahead. Farmers' Club, London. J. 1947: 90-95. 10 L84
- Discussion, p. 95-103.
- 30125 HINDS, M. K., and DANKERS, W. H. 1949 outlook; dairy products, eggs and poultry. Minn. U. Agr. Ext. Pam. 163, 8 p. Dec. 1948. 275.29 M66P
- 30126 HOFER, H. Schul- und berufsbildungswesen. In Switzerland. Schweizerische Milchkommision. Die schweizerische Milchwirtschaft, p. 727-770. Thun, 1948. 44 Sw62
- 30127 HOFER, M. Braucht Kärnten neue molkereien? Kärntner Bauer 98: 387-389. Dec. 1, 1948. 19 K14
- 30128 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. R. for the milk shortage. Washington, 1948? 6 p. 44 In89R
- 30129 INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS. Suggested newspaper story. Washington, 1948? 3 p. 44 In89
- Need for increasing milk production.
- 30130 INTERNATIONAL DAIRY FEDERATION. To determine whether the Commission of Dairy Economics of the International Dairy Federation should place on its agenda, the study of milk production and consumption, as a part of the national and economic life in the various countries. Groningen? 1948. 2 p. 44 In83T
- 30131 JACK, E. L. University preparation for a career in dairy industry. Pacific Dairy Rev. 53(1): 24, 40. Jan. 1949. 286.85 P11
- 30132 JACOBSEN, A. P. The position of butter in the world fat supply. (In Danish.) Andelsbladet 50: 41-42. Jan. 13, 1949. 280.28 An2
- 30133 JONES, R. E. Industry builder; the biography of Chester Earl Gray. Palo Alto, Calif., Pacific Books, 1948. 233 p. 120 G792
- The dairy and dried milk industry.
- 30134 KARBAN, L. Reklamationen. Osterr. Milch- u. Fettwirtschaft 3: 220. Oct. 1948. 44.8 Os72
- 30135 KEY FACTORS in the ice cream industry's planning for 1949. Ice Cream Trade J. 44(10): 76-80, 152-158. Oct. 1948. 389.8 Ic2
- Statements by B. C. Brown, G. S. McKenzie, E. J. Mather, G. V. Rector, W. D. Dobson, H. E. Strong, I. C. Reynolds, J. G. McDonald, H. Dirkes, G. L. H. White, A. Ricciardi, R. Kennedy, Jr., P. P. Miller, J. D. McEwen, J. H. Meehan, P. E. Reinhold, R. Wise, E. H. Goldstein, H. M. Birmingham, and W. C. Skinner.
- 30136 KOESTLER, G., and BRETSCHER, H. Gesetzgebung, organisation und verbandswesen. In Switzerland. Schweizerische Milchkommision. Die schweizerische Milchwirtschaft, p. 707-726. Thun, 1948. 44 Sw62
- 30137 KOESTLER, G. Die milch. In Switzerland. Schweizerische Milchkommision. Die schweizerische Milchwirtschaft, p. 149-246. Thun, 1948. 44 Sw62
- 30138 KUNTSCHEER, H. Molkenessig. Osterr. Milch- u. Fettwirtschaft 3: 270-272. Dec. 1948. 44.8 Os72
- 30139 LAIPPLE, E. Betriebswirtschaftliche gedanken zur milchproduktion. Württemb. Wchnbl. f. Landw. 116: 5-6. Jan. 1, 1949. 18 W96
- 30140 LANGHARD, O., and MÜLLER, O. Die milchwirtschaft in krisenzeiten. In Switzerland. Schweizerische Milchkommision. Die schweizerische Milchwirtschaft, p. 799-846. Thun, 1948. 44 Sw62
- 30141 LAURENT, R. La production laitière au Danemark. Inform. Maroc. 402: 1-2. Sept. 25, 1948. 281.8 In3
- 30142 LICHTENBERGER, B. Aus der Ostzone. Norddeut. Molkerei- u. Käserei-Adress-Kalender (1948) 12: 70-71. 1947. 44.8 N753



- 30143 MAYER, D. H. Einmaleins der milchwirtschaft, ein rechenbuch für molkereifachleute. Kempten, Fehr, 1947. 182 p. 44 M452
- 30144 MEEHAN, J. H. Ice cream future depends largely on manufacturer. Confectionery-Ice Cream World 41(5): 12, 18. Feb. 4, 1949. 389.8 C767
- 30145 MELTON, C. The history of dairying. Ontario Milk Prod. 24: 240. Feb. 1949. 44.8 On8
- 30146 MEYER, E. A. The dairy industry. Flour & Feed 49(9): 25. Feb. 1949. 298.8 F66
- 30147 MILTON, C. The history of dairying in Canada. I. Ontario Milk Prod. 24(8): 212. Jan. 1949. 44.8 On8
- 30148 MOORE, C. H. Dairying—a potential source of income to Texas. Fed. Reserve Bank Dallas. Monthly Business Rev. 34: 13-22. Feb. 1, 1949. 284.8 F31D
- 30149 MÜLLER, O. Aus der milchwirtschaft in Mexiko; zwischen bakterienfurcht und protektionismus. Schweiz. Milchztg. 74: 592. Dec. 28, 1948. 44.8 Sch92
- 30150 NEW ZEALAND DAIRY BD. 24th annual report, year ended 31st July 1948. Wellington, 1948. 60 p. 44.9 N489A
- 30151 NIELSEN, S. The product exhibition. (In Danish.) Nord. Mejeri-Tidsskr. 14: 134-136. 1948. 44.8 N752
- Butter and cheese at the dairy exhibition.
- 30152 NORDDEUTSCHER molkerei- und käseerei-adress-kalender. 12th, 1948. 1947. 276 p. (Deutscher Molkerei- und Käseerei-Adress-Kalender. Ausg. B) 44.8 N753
- 30153 OBERHUBER, G. Überschreitung der handels-spannen. Österr. Milch- u. Fettwirtschaft 3: 268-269. Dec. 1948. 44.8 Os72
- 30154 PARGUEY, G., and MENGUE, J. Le lait: production d'avenir. Défense Agr. de la Beauce et du Perche 46(2): 11. Jan. 10, 1949. 14 D36
- 30155 PARREIRA, B. Milk supply for large centers of consumption. (In Portuguese.) Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 16: 51-59. 1948. 41.8 P83
- 30156 PEDERSEN, O. B. What can Denmark learn from America's dairy industry. (In Danish.) Nord. Mejeri-Tidsskr. 14: 155-157. 1948. 44.8 N752
- 30157 REED, O. E. Looking ahead in the dairy industry. U. S. Bur. Dairy Indus. BDIM-Inf-69, 3 p. Feb. 1949. 1.973 D4B34
- 30158 RIBEIRO, J. A. The dairy section at the 15th National Exposition of Livestock and Livestock Products. (In Portuguese.) B. do Leite (ser. 4) 2(17): 7, 9-10. Nov. 1948. 44.8 B33
- Held in São Paulo.
- 30159 RIBEIRO, J. DE A. The "milk and dairy products" sector of the SALTE Plan. Considerations in regard to suggested methods. III. Formation of cooperatives for production, processing and marketing of milk and dairy products. (In Portuguese.) Rev. dos Criadores 19(12): 31-33. Dec. 1948. 43.8 R32
- 30160 RØNNEVIG, G. M. Report on the year 1948. (In Norwegian.) Meieriposten 38: 21-24. Jan. 15, 1949. 44.8 M47
- The dairy industry in southern Norway.
- 30161 RUSTEN, F. The dairy industry in North-Norway in 1948. (In Norwegian.) Meieriposten 38: 25-27. Jan. 15, 1949. 44.8 M47
- 30162 SCHLÜTER, F. Zukünftige organisationsfragen der milchwirtschaft. Süddeut. Molkerei-Ztg. 69: 54-55. Mar. 11, 1948. 44.8 Su2
- 30163 SELBY, H. W. Dairy farming in 1949. United Farmers New England. News 8(7): 3. Jan. 1949. 6 Un35
- 30164 SEN, K. C., and DASTUR, N. N. Milk and milk products in India. Empire J. Expt. Agr. 16: 195-206. Ref. Oct. 1948. 10 Em7
- 30165 SHAW, J. Creameries that travel hills. Farmer & Stock-Breeder 62: 2900. Dec. 14, 1948. 10 F228
- A mobile creamery in Killarney.
- 30166 SKERTCHLY, C. The ice cream industry, progress in 1948. Dairyman 66(1): 9-10. Jan. 1949. 44.8 D1426
- Great Britain.
- 30167 SPENCER, L. The demand side of the New York milk market. Metrop. Milk Prod. News 9(1): 13-15. Jan. 1949. 280.28 M56
- 30168 SPIERS, R. J. 80% butterfat cream, its production and uses. Ice Cream Trade J. 45(1): 44, 81-82. Jan. 1949. 389.8 Ic2
- 30169 SPROULE, W. H. Potentialities in the Canadian cheese industry. Canad. Dairy & Ice Cream J. 28(1): 46, 48, 74. Jan. 1949. 44.8 C162
- 30170 SÜDDEUTSCHER molkerei- und käseerei-adress-kalender, 24th, 1948. 1947. 232 p. (Deutscher Molkerei- und Käseerei-Adress-Kalender. Ausg. A) 44.8 Su22
- 30171 THIBODEAU, R. Sécurité de l'industrie laitière par une technique plus élaborée. Québec Lait. 7(12): 13-14, 16. Dec. 1948. 44.8 Q3
- 30172 TOBLER, E. Der handel mit milch und milchprodukten. In Switzerland. Schweizerische Milchkommission. Die schweizerische Milchwirtschaft, p. 637-706. Thun, 1948. 44 Sw62
- 30173 TOLONEN, K. Halland has highest yield in butterfat; the control associations during 1947-48. (In Swedish.) Lantmannen 33: 37-39. Jan. 15, 1949. 11 L234
- 30174 U. S. BUR. OF DAIRY INDUSTRY. Address list of national and international dairy associations. U. S. Bur. Dairy Indus. BDIM-Inf-4, rev., 2 p. Nov. 1948. 1.973 D4B34
- 30175 VARNEY, H. H. Production and market trends. Mich. Milk Messenger 30(10): 1, 7. Feb. 1949. 44.8 M582
- 30176 VIRGINIA STATE DAIRYMEN'S ASSOCIATION. Forty-second annual convention, January 20 and 21, 1949. n. p., 1949. 64 p. 44.9 V81A
- 30177 WARD, R. W. Is dairying your goal? There are factors which favor youth in the business. Better Farms 8(13): 15. Dec. 1, 1948. 6 B462
- 30178 WEBER, K. Die entwicklung der milchwirtschaftlichen organisation. Württemberg. Wchnbl. f. Landw. 116: 37-38. Jan. 22, 1949. 18 W96
- 30179 WEKRE, E. Milk production and dairy industry in the Netherlands. (In Norwegian.) Meieriposten 37: 577-581, 590-598, 607-613, 621-627, 644-646, 660-664, 675-678, 769-774, 821-828. Aug. 4-Oct. 16, Nov. 27, Dec. 18, 1948. 44.8 M47
- 30180 WIMMER, C. Der milchhof Innsbruck im dienste der milchversorgung der stadt. Österr. Milch- u. Fettwirtschaft 3: 227-228. Oct. 1948. 44.8 Os72
- Analysis and Composition
- 30181 AMERICAN PUBLIC HEALTH ASSOCIATION. Standard methods for the examination of dairy products. Microbiological, bioassay and chemical. Ed. 9. New York, 1948. 373 p. 44.8 Am3
- 30182 BAKALOR, S. The composition of city milk in Cape Town. Farming So. Africa 23: 675-676. Oct. 1948. 24 So842
- 30183 BLANCHARD, J. F. Calcium tartrate crystals can form in processed cheese. Food-Indus. 21: 101. Jan. 1949. 389.8 F737
- 30184 BROUWER, T. The ideal butirometer. (In Dutch.) Alg. Nederl. Zuivelbond. Off. Orgaan 40: 290-291. Dec. 15, 1948. 44.9 AL3
- 30185 CIOFFI, R. M. The raw material. (In Italian.) Alimenti 4: 193-194. Sept./Oct. 1948. 389.8 AL44
- Milk analysis and chemistry.
- 30186 CLEMONS, H. B., and WINKLER, E. A. Problems involved in ashing cottage cheese for calcium and phosphorus determination. Amer. Dairy Sci. Assoc. West. Div. Proc. (1948) 29: 117-118. 44.9 Am342
- 30187 CRUZ, A. A. DA. Analysis of Serpa cheese. (In Portuguese.) Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 16: 5-16. 1948. 41.8 P83
- 30188 ERICHSEN, I., and GOLDING, N. S. Bacteria in farmer's milk which survive pasteurization and subsequently grow during cheese making. Amer. Dairy Sci. Assoc. West. Div. Proc. (1948) 29: 110-116. 44.9 Am342
- 30189 FOUASSIER, M. De la connaissance du lait: l'écrémage et son estimation. Crémérie Franç. 94: 7. Jan. 5, 1949. 44.8 C867
- 30190 GOIFFON, E. Dosage pratique des protides du lait par la mesure colorimétrique de la tyrosine et du tryptophane. Lait 28: 449-454. Sept./Oct. 1948. 44.8 L143



- 30191 GOLDING, N. S. Grading milk with the resazurin test. *J. Milk & Food Technol.* 12(1): 48-51. Jan./Feb. 1949. 44.8 J824
- 30192 GOLDING, N. S., and MILLER, D. D. Physiological reasons for the dominance of *Penicillium roqueforti* in blue veined cheese. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 122-130. Ref. 44.9 Am342
- 30193 GOULD, I. A., and STOUT, R. E. Fat variations in milk. 1. Farm factors. *Milk Plant Monthly* 38(2): 32-35, 44-45. Feb. 1949. 44.8 C864
- 30194 GRIMM, H. Verfahren zur sicheren durchschnittsfettgehaltsermittlung. *Süddeut. Molkerei-Ztg.* 69: 57. Mar. 11, 1948. 44.8 Su2
- 30195 HANSEN, O. S. Composition of ice cream and amount of gelatin. (In Danish.) *Nord. Mejeri-Tidsskr.* 14: 149-151. 1948. 44.8 N752
- 30196 HANSSON, E., SJÖSTRÖM, G., and SAMUELSSON, E. G. The effect of various factors on the elastic properties of rennet curd. (In Danish.) *Kungl. Lantbruksakad. Tidskr.* 87: 434-449. 1948. 104 Sw3  
English summary.
- 30197 HATTER, J. O. The effect of age on the percentage of fat in cream. *Australian Milk & Dairy Prod. J.* 15(9/10): 29. Sept./Oct. 1948. 44.8 Au72
- 30198 HIETARANTA, M. On the redoxpotential and availability of its measurement in the dairy bacteriological and chemical investigations. (In Swedish.) *Nord. Mejeri-Tidsskr.* 14: 145-149. 1948. 44.8 N752
- 30199 HILLWAY, B. W. Report of Intercollegiate Dairy Products Judging Contest at Pacific International Livestock Exposition, October 2, 1948. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 11-12. 44.9 Am342
- 30200 HIRSCH, A. Dairy bacteriology. V. The bacteriology of milk products. *Dairy Indus.* 13: 1200-1202. Dec. 1948. 44.8 D1427
- 30201 HOFFMAN, C., and others. Evaluation of the baking properties of roller process nonfat dry milk solids by a farinograph procedure. *Cereal Chem.* 25: 385-390. Nov. 1948. 59.8 C33  
T. R. Schweitzer, E. K. Spotts, and G. Dalby, joint authors.
- 30202 HUDDLESON, I. F., BALTZER, B., and TROUT, G. M. The viability of *Brucella abortus* in milk and in cream during heat treatment in electrically operated home pasteurizers. *J. Dairy Sci.* 32: 29-32. Jan. 1949. 44.8 J822
- 30203 JAX, P. Untersuchungen über den unterschiedlichen wassergehalt der butter einer butterung. *Österr. Milch- u. Fettwirtschaft* 3: 265-267. Dec. 1948. 44.8 Os72
- 30204 JOHNSON, L. J. Quality control; bacteria counts. *United Farmers New England. News* 8(7): 15. Jan. 1949. 6 Un35  
Milk quality.
- 30205 JØRGENSEN, S. Experiments with milk from penicillin treated cows. (In Danish.) *Nord. Mejeri-Tidsskr.* 14: 141-142. 1948. 44.8 N752
- 30206 KAPLAN, E. Homogenized milk-chart showing percentage difference in fat between top portion of milk and remainder after 48 hours storage. *J. Milk & Food Technol.* 12(1): 31-33. Jan./Feb. 1949. 44.8 J824
- 30207 KOPACZEWSKI, W. Étude physico-chimique du lait. III. Stabilisation du lait. *Lait* 28: 466-505. Ref. Sept./Oct. 1948. 44.8 L143
- 30208 KRUEGER, G. J., ASHWORTH, U. S., and BENDIXEN, H. A. The effect of varied concentration of nonfat dry milk solids on the rate of whey protein denaturation by heat. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 82-89. 44.9 Am342
- 30209 LUDWIG, M. Ursachen der milch-fettgehaltsschwankungen. *Landw. Wchnbl.* 138: 397. Nov. 27, 1948. 18 L2338
- 30210 MACHEREL, P. Contribution aux études sur la graduation des butyromètres à lait d'après les travaux de A. de Vleeschauwer et H. Hendrickx. *Lait* 28: 515-518. Sept./Oct. 1948. 44.8 L143
- 30211 MARQUES, A. Note on the quantity of cholesterol in milk of the Turin cow. (In Portuguese.) *Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 35-40. Ref. 1948. 41.8 P83
- 30212 MOGENSEN, M. T. S. Determination of the degree of proteolytic decomposition in cheese with special reference to the formol titration. (In Swedish.) *Alnarps Lantbr.-, Mejeri- och Trädgårdsinstit. Statens Mejeriförsök. Meddel.* 21: 281-436. 1948. 44.9 AL6
- 30213 MOREIRA-JACOB, M. A new staining technique for microscopic examination of milk (the Breed method). (In Portuguese.) *Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 139-141. 1948. 41.8 P83
- 30214 MURRAY, D. L. Are quality tests useful. *Hoards Dairyman* 94(3): 110. Feb. 10, 1949. 44.8 H65  
Milk.
- 30215 OLIVEIRA, J. J. A. DE. An examination of lactobacillus in ordinary milks. (In Portuguese.) *Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 131-133. 1948. 41.8 P83
- 30216 OLIVEIRA, J. J. A. DE. Some cases of contamination of milk by *Bacillus prodigiosus* [i.e. *Serratia marcescens*]. (In Portuguese.) *Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 135-137. 1948. 41.8 P83
- 30217 PELCZAR, M. J., JR., and VERA, H. D. An improved medium for the enumeration of bacteria in milk and milk products. *Milk Plant Monthly* 38(1): 30-33. Jan. 1949. 44.8 C864
- 30218 POSTHUMUS, G. Research on the occurrence of coliform bacteria aerogenes in milk and their significance. (In Dutch.) *Alg. Nederl. Zuivelbond. Off. Orgaan* 41: 25. Jan. 19, 1949. 44.9 AL3
- 30219 PRINCIVALLE, E. Research on goat's milk. 1. (In Italian.) *Ann. di Chim. Appl.* 38: 617-618. Oct./Nov. 1948. 385 An7
- 30220 RANGAPPA, K. S. Studies on the refractive index of milk. *Indian Acad. Sci. Proc. Sect. B* 28: 131-143. Ref. Oct. 1948. 513 In25B
- 30221 ROBB, M. J. Freezing point tests. *Milk Indus.* 29(7): 48-51. Jan. 1949. 44.8 M593
- 30222 ROEDER, G. Schnellmethoden zur biologischen prüfung der milch. *Süddeut. Molkerei-Ztg.* 69: 58-59. (To be cont.) Mar. 11, 1948. 44.8 Su2
- 30223 SANCHEZ-MARROQUIN, A. Pruebas para el control de la pasteurización de la leche y productos lácteos. *Ciencia* 8: 280-284. Ref. 1948. 475 C48
- 30224 SANDERS, G. P., and SCHAAAL, W. Test devised for determining adequacy of pasteurization in dairy products. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 117, 2 p. Jan. 1949. 1.98 R31  
Phosphatase test.
- 30225 SANTOS, I. A. DOS. The elements in a microscopic examination of cheese from Serra da Estrela. (In Portuguese.) *Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 95-97. 1948. 41.8 P83
- 30226 SCHMIDT, A. Chemie für molkefachleute. Hildesheim, Lax, 1947. 95 p. 386 Sch54
- 30227 SCHMIDT, A. Kleines handbuch der milch-wirtschaftlichen untersuchungsmethoden für molkefachleute und milchwirtschaftliche kontrollorgane. Ed. 2 Hildesheim, Lax, 1947. 43 p. 44 Sch53
- 30228 SEVILLA, N. S. Some facts about cow's milk. *Philippine Livestock Mag.* 1: 42-43, 69-70. Dec. 1947. 49 P53  
Composition.
- 30229 SOROA-PLANA, J. M. Los microorganismos de la leche. *Surco [Madrid]* 7(80): 9-11. Oct. 1948. 15 Su7
- 30230 STOLL, G. Landeskäseprüfung in Oberösterreich. *Österr. Milch- u. Fettwirtschaft* 3: 275-276. Dec. 1948. 44.8 Os72
- 30231 THOMAS, S. B., HOBSON, P. M., and FRANKLIN, R. M. The seasonal incidence of thermophilic organisms in farm milk supplies. *Dairy Indus.* 14(1): 31-37, 44. Ref. Jan. 1949. 44.8 D1427
- 30232 TROPA, E., and GARCIA, M. L. G. Special raw milk. (In Portuguese.) *Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 75-83. 1948. 41.8 P83  
Analysis for bacterial count.
- 30233 TROUT, G. M., BRUNNER, J. R., and LUCAS, P. S. The Babcock fat test of reconstituted milk. *Milk Plant Monthly* 38(2): 52, 58-59. Feb. 1949. 44.8 C864
- 30234 VALDES ORNELAS, O., and MARTINEZ, F. C. Aislamiento de bacterias coliformes a partir de cremas y mantequillas pasteurizadas. *Ciencia* 8: 284-285. 1948. 475 C48
- 30235 VALEN, A. L. Composition of Norwegian creamery milk. (In Norwegian.) *Meieriposten* 37: 801-806. Dec. 11, 1948. 44.8 M76
- 30236 VARMA, K., and PAUL, T. M. Vitamin C content of the milk of some important breeds of Indian cattle. *Indian J. Vet. Sci. & Anim. Husb.* 17: 185-187. Ref. Sept. 1947. 41.8 In22



30237 VODAK, L. S., and TARASSUK, N. P. Observations on change of buffer indices of milk with changes of temperature. Amer. Dairy Sci. Assoc. West. Div. Proc. (1948) 29: 102-109. Ref. 44.9 Am342

30238 WAGENAAR, R. O., and PROUTY, C. C. The adaptability of two strains of lactic streptococci to growth in the presence of homologous bacteriophage. (Abs.) Amer. Dairy Sci. Assoc. West. Div. Proc. (1948) 29: 131. 44.9 Am342

30239 WECKEL, K. G. Merit and shortcomings of various procedures for making sediment tests of milk. J. Milk & Food Technol. 12(1): 5-8. Ref. Jan./Feb. 1949. 44.8 J824

30240 WILSTER, G. H. Testing dairy products and dairy plant sanitation. Ed. 2. Corvallis, Oreg., OSC Coop. Assoc., 1948. 249 p. 44 W693T

30241 WRIGHT, R. C. Detection of oxidizing agents in milk. Australian Milk & Dairy Prod. J. 15(9/10): 27. Sept./Oct. 1948. 44.8 Au72

30242 ZWAGERMAN, C. Much or fat milk. III. Milk destination and composition. (In Dutch. Alg. Nederl. Zuivelbond. Off. Orgaan 40: 287-288. Dec. 15, 1948. 44.9 AL3

#### Consumption and Utilization

30243 BIANCHI, G. The industrial utilization of whey. (In Italian.) Mondo del Latte 1948(12): 11, 13-14, 17, 27. Dec. 1948. 44.8 M74  
Summary in French and English.

30244 HOLLINGER, M. E., and DODD, V. L. Helping children to accept evaporated milk. J. Home Econ. 40: 507-508. Nov. 1948. 321.8 J82

30245 MYRICK, N. Milk goes to fabulous Sun Valley. Amer. Milk Rev. 11(2): 12, 14, 62. Feb. 1949. 44.8 Am38

30246 OSBORN, T. W. B. The case for adding milk powder to bread. Food Indus. So. Africa 1(8): 41. Dec. 1948. 389.8 F7372

30247 SCHULZ-FALKENHAIN, H. Reinigung von molkereiabwässern. Hildesheim, Heinrich, 1947. 28 p. 44 Sch85

Includes utilization of wastes.

30248 SKRAMER, K. Molkenverwertungsmöglichkeiten der gegenwart in molke-eigener zuständigkeit. Hildesheim, Heinrich, 1947. 26 p. 44 Sk6

30249 VERRA, H. A. Aprovechamiento de la leche descremada. Campo y Suelo Argentino 32(385): 54. Nov. 1948. 9 C15

30250 WIRTINGER, M. Verwendung von biestmilch in der küche des bauernhauses. Kärntner Bauer 98: 400-401. Dec. 1, 1948. 19 K14

#### Distribution, Marketing, and Transportation

30251 BISET. Vers la liberté du lait? Nord Agr. 5(15): 3. Feb. 13, 1949. 14 N75  
France.

30252 BURNETT, C. Selling ice cream through vending machines. Ice Cream Rev. 32(6): 34, 66. Jan. 1949. 389.8 Ic22

30253 CORREIA Y ALBERTY, A. Milk supply for the city of Coimbra (present status, possible organization, and improvement). (In Portuguese.) Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 16: 41-45. 1948. 41.8 P83

30254 DAY, G. H. The market outlook for nonfat dry milk. Natl. Butter & Cheese J. 40(2): 62-63. Feb. 1949. 286.85 B98Bu

30255 DAY, G. H. Outlook points to market problems for nonfat dry milk. Agr. Situation 33: 12-14. Jan. 1949. 1 Ec7Ag

30256 EASTERBROOK, L. F. Sharing out the milk. Ontario Milk Prod. 24: 232. Feb. 1949. 44.8 On8  
Marketing regulation in Great Britain.

30257 ENGEL, R. W. Collection time is selling time. Milk Plant Monthly 38(1): 34-35. Jan. 1949. 44.8 C864

30258 FINNEBURGH, M. L. Increasing per capita consumption of ice cream. Confectionery-Ice Cream World 40(27): 17-18. Dec. 31, 1948. 389.8 C767

30259 GORDON, R. A. Let's sell ice cream. Dairy World 27(9): 21, 24. Feb. 1949. 44.8 D1423

30260 HOFFMANN, K. Ist der befähigungsnachweis zum milchverkauf notwendig? Österr. Milch- u. Fettwirtschaft 3: 268. Dec. 1948. 44.8 Os72

30261 JONES, R. E. Public relations job a continuing necessity. Pacific Dairy Rev. 53(1): 26, 38-39. Jan. 1949. 286.85 P11

30262 KLOKER, N. F. Prize-winning milk ads. Milk Dealer 38(4): 42-43. Jan. 1949. 44.8 M595

30263 KNIELY, A. Almseilbahn im einsatz. Salzburg. Bauer 3(47): 3-5. Nov. 18, 1948. 19 Sa3  
For transporting milk.

30264 LAWRENCE, J. M. Retail milk delivery—three days per week. Canad. Dairy & Ice Cream J. 28(1): 60, 64, 66. Jan. 1949. 44.8 C162

30265 LEGRANDE, A. H. Selling the producer on quality. Dairy World 27(9): 38-42, 44-47. Feb. 1949. 44.8 D1423

30266 LESNÉ, E., and RIBADEAU-DUMAS, L. La question des régimes lactés. Acad. Natl. de Méd. B. 131: 604-606. Nov. 4/18, 1947. 448.9 P21  
Problems of distribution in France.

30267 LEWIS, C. How to lose milk patrons. Natl. Butter & Cheese J. 40(1): 32-33. Jan. 1949. 286.85 B98Bu

Public relations.

30268 LUNDER, L. J. Contribution of creameries to the development of farm producers cooperatives. (In Norwegian.) Meieriposten 37: 838-847. Dec. 29, 1948. 44.8 M47

30269 MACLEOD, A. What makes the market for dairy products? Wis. Agr. Expt. Sta. B. 477, 59 p. Sept. 1948. 100 W75

30270 MAXWELL, M. A producers incentive plan. Milk Plant Monthly 38(2): 60-61. Feb. 1949. 44.8 C864

30271 QUITTER, H. Marketing ice cream by dealer education. Confectionery-Ice Cream World 41(5): 13. Feb. 4, 1949. 389.8 C767

30272 ROBICHAUX, R. Let's sell butter! A five-point program for promoting the sale of butter. Milk Plant Monthly 38(1): 70-72. Jan. 1949. 44.8 C864

30273 ROCHESTER DAIRY COOPERATIVE. Annual report, September 30, 1948. n. p., 1948? 18 p. 280.244 R58

30274 SIDEY, R. Training milk salesmen. Canad. Dairy & Ice Cream J. 28(1): 30, 74. Jan. 1949. 44.8 C162

30275 SPENCER, L. An economic study of the operations of six leading milk companies in the New York-New Jersey metropolitan area 1941-1948. N. Y. Agr. Col. A. E. 686, 36 p. Jan. 1949. 281.9 C81

30276 SWITZER, W. F. Smart display sells ice cream. Confectionery-Ice Cream World 41(3): 11, 20. Jan. 21, 1949. 389.8 C767

30277 WAK. Gedanken über eine neuzeitliche milchversorgung einer grossstadt. Österr. Milch- u. Fettwirtschaft 3: 272-274. Dec. 1948. 44.8 Os72

30278 WELCH, W. F. A practical approach: your advertising problems. South. Dairy Prod. J. 45(2): 66-67, 74-75. Feb. 1949. 44.8 So83

30279 YOUNG, R. Annual bonus system builds sales all year. Milk Plant Monthly 38(2): 54-55. Feb. 1949. 44.8 C864

30280 YOUNG, R. Bonus plan spurs routemen's sales efforts. Milk Plant Monthly 38(2): 76-77. Feb. 1949. 44.8 C864

30281 ZOLLIKOFER, E. Die verwertung der milch. In Switzerland. Schweizerische Milchkommission. Die Schweizerische Milchwirtschaft, p. 247-290. Thun, 1948. 44 Sw62

#### Grading, Inspection, Standardization, and Quality

30282 ANDERSON, E. B., and MEANWELL, L. J. Raw milk quality and pasteurization. Roy. Sanit. Inst. J. 69(1): 24-28. Jan. 1949. 449.9 R812  
Discussion, p. 28-31.

Keeping quality of pasteurized milk dependent on hygienic quality of raw milk supply.

30283 APPLEBY, A. The use of patent information by sanitarians. J. Milk & Food Technol. 12(1): 9-10. Jan./Feb. 1949. 44.8 J824

Milk and food sanitarians.

30284 BARKER, E. M. How to produce and deliver high-quality cream. Amer. Milk Rev. 11(2): 21-22, 24, 62. Feb. 1949. 44.8 Am38



30285 BRAZIL. DIVISÃO DE INSPEÇÃO DE PRODUTOS DE ORIGEM ANIMAL. Regulamento da inspeção federal de leite e derivados [Regulation of federal inspection of milk and derived products]. Rio de Janeiro, 1947. 29 p. (S. I. A. 58) 44 B736R

30286 CHAPMAN, R. A. Factors affecting the keeping quality of dried milk powder. *Australian Milk & Dairy Prod. J.* 15(9/10): 13-15. Sept./Oct. 1948. 44.8 Au72

30287 CLAVIJO PERALTA, M. El problema de las leches higiénicas en Colombia. *Rev. Nac. de Agr. [Bogotá]* 42(515): 15-17. Mar. 1948. 9.4 R32

30288 ESTEVES, E. M. Fermentation in cheese. (In Portuguese.) *Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 69-73. 1948. 41.8 P83

Undesirable qualities produced by unsanitary milk.

30289 FALCIONI, A. C. El problema lechero. *Buenos Aires. Dir. Med. Vet. B.* 5(23/26): 16-17. 1948. 41.9 B865  
Sanitation.

30290 HENNERICH, G. W. Sanitation—an invitation to buy your brand of ice cream. *South. Dairy Prod. J.* 45(2): 86-87, 92-93. Feb. 1949. 44.8 So83

30291 HUNT, E. R. Ropiness occurring in the cream of pasteurized milk during August, 1948. *Dairy Indus.* 14(1): 47-48. Jan. 1949. 44.8 D1427

30292 JOSEPHSON, D. V. Evaluating flavor of dairy products neglected, claim. *Cheese Rptr.* 73(21): 3. Jan. 14, 1949. 44.8 Sh3

30293 JUDKINS, H. J. Quality control in the milk industry. *J. Milk & Food Technol.* 12(1): 34-40. Jan./Feb. 1949. 44.8 J824

30294 KÄSTLI, P. Bestrebungen zur hebung der qualität. In *Switzerland. Schweizerische Milchkommission. Die schweizerische Milchwirtschaft*, p. 549-636. Thun, 1948. 44 Sw62

30295 KENNEDY, R., JR. Government and industry proposals for Federal standards of frozen dairy foods. *South. Dairy Prod. J.* 45(1): 82-83, 92-93. Jan. 1949. 44.8 So83

30296 LIGTHELM, H. J. Keeping quality of butter. (In Afrikaans.) *So. African Dairyman* 11(1): 9. Jan. 1949. 44.8 So822

30297 MATHEWS, F. P. Poliomyelitis epidemic, possibly milk-borne, in a naval station, Portland, Oregon. *Amer. J. Hyg.* 49(1): 1-7. Jan. 1949. 44.8 Am3

30298 MEISTER, H. E. Constant quality sells the product. *Natl. Butter & Cheese J.* 40(2): 20, 44. Feb. 1949. 286.85 B98Bu

30299 MERZARI, A. H. Las coloraciones anormales en los productos lácteos. *Chacra* 19(218): 35. Dec. 1948. 9 C34

30300 PETTE, J. W., and LIEBERT, J. L. On the cause of the gassy fermentation in processed cheese. (In Dutch.) *Netherlands. Dir. van den Landb. Verslag van Landbouwk. Onderzoek.* 54(2), 23 p. Ref. 's-Gravenhage, 1948. 105.2 V61V  
English summary.

30301 PROVAN, A. L., and JENKINS, D. I. Trends in milk quality. *Soc. Dairy Technol. J.* 2: 88-93. Jan. 1949. 44.8 So12

Discussion, p. 93-94.

30302 REICHART, E. L. Quality problems of the cheese industry. *South. Dairy Prod. J.* 45(2): 114. Feb. 1949. 44.8 So83

30303 RUDNICK, A. W. Don't lose dollars with dirty milk. *Country Gent.* 119(2): 18, 172. Feb. 1949. 6 C833

30304 SCATTOLIN, L. L. Genuineness of butter. (In Italian.) *Agricoltore [Milano]* (n. s.) 29(42): 1. Oct. 16, 1948. 16 Ag862

30305 SEARLE, G. H. "Safety first" in ice cream. *Dairy Indus.* 13: 1239-1241. Dec. 1948. 44.8 D1427

30306 STULL, J. W., HERREID, E. O., and TRACY, P. H. A study of the use of the antioxidant nordihydroguaiaretic acid in dairy products. II. Its antioxidant properties in unsweetened frozen cream. *J. Dairy Sci.* 31: 1024-1028. Dec. 1948. 44.8 J822

30307 TENNET, M. R. Grading dairy produce. *New Zeal. Dept. Agr. B.* 300: 29-36. 1948. 23 N48Bu

30308 WIMMER, J. Kontrolle der milch bei der übernahme in der landmolkerei. *Österr. Milch- u. Fettwirtschaft* 3: 217-220. Oct. 1948. 44.8 Os72

30309 WINN, J. F. Q fever and the dairy industry. *Calif. Dairyman* 28(26): 10-11. Jan. 29, 1949. 44.8 C12

### Packing and Packaging

30310 ELLISON, H. Installation & operation of farm milk tanks. *Calif. Milk News* 32(19): 5, 10. Feb. 4, 1949. 44.8 C124

30311 ERBACHER, E. Das verpackungsmaterial für käse. *Süddeut. Molkerei-Ztg.* 69: 55-57. (Cont.) Mar. 11, 1948. 44.8 Su2

30312 FISKE, R. L. Milk cans and hard water. *Amer. Milk Rev.* 11(2): 30, 32. Feb. 1949. 44.8 Am38

30313 HARGREAVES, G. Suggested fields for research in mechanical can washing. *Dairy Indus.* 13: 1208-1209. Dec. 1948. 44.8 D1427

### Prices, Price Control, and Rationing

30314 BOSTON MILKSHED PRICE COMMITTEE. A recommended basis of pricing class I milk in the Boston market. n. p., 1947. 58 p. 284.344 B65

30315 BUTZ, D. Volume discounts to retail milk customers. *N. Y. Agr. Col. Farm Econ.* 165: 4256-4259. Dec. 1948. 280.8 C812

30316 GEYER, K. The Boston formula. *Hoard's Dairyman* 94: 155, 175. Feb. 25, 1949. 44.8 H65  
Pricing.

30317 MADUREIRA, A. One price for milk. (In Portuguese.) *Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 31-34. 1948. 41.8 P83

30318 MASON, H. C. Milk costs too much. *Ontario Milk Prod.* 24: 230-231. Feb. 1949. 44.8 On8

30319 MERISH, F. Price and profit; how price recessions affect your business figures. *Milk Plant Monthly* 38(2): 66-68. Feb. 1949. 44.8 C864

30320 PERDUE, W. O. Today's price situation. *Pure Milk Prod. Press* 13(7): 1. Dec. 1948. 280.28 P972

Ice cream.

30321 SPENCER, L. Important consideration in classified pricing of milk. *Metrop. Milk Prod. News* 9(1): 23. Jan. 1949. 280.28 M56

30322 VOSS, H. Maschinenausgabekonto und milchpreis. *Neue Mitt. f. die Landw.* 3: 465-466. Dec. 15, 1948. 18 N39

30323 YOUNG, H. P. Are milk prices too high? *Metrop. Milk Prod. News* 9(1): 4. Jan. 1949. 280.28 M56

### Processing and Storage

30324 AGUILERA, M. C. Preparación de fermento láctico y su empleo en la fabricación de queso y manteca. *Campo y Suelo Argentino* 32(385): 62-63. Nov. 1948. 9 C15

30325 ANTUNES, T. M. Organization of the cheese industry of Serra da Estrela. (In Portuguese.) *Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 155-161. 1948. 41.8 P83

30326 ARBUCKLE, W. S. Low temperature storage of dairy products. *Quick Frozen Foods* 11(7): 92-93. Feb. 1949. 389.8 Q4

30327 ARBUCKLE, W. S. Stabilization for quality control [of ice cream]. *South. Dairy Prod. J.* 45(2): 140. Feb. 1949. 44.8 So83

30328 BALLARIN, O. Dairy industry studies in Switzerland. (In Portuguese.) *B. do Leite* (ser. 4) 2(17): 1-4. Nov. 1948. 44.8 B633

30329 BEAMS, F. N. Dairy refrigeration. *Soc. Dairy Technol. J.* 2: 115-121. Jan. 1949. 44.8 So12  
Discussion, p. 121-122.

30330 BEARDSLEE, C. E. Dry milks, the story of an industry. *Chicago, Amer. Dry Milk Inst.*, 1948. 44 B382

30331 BEGIN, P. E. Réponse aux arguments contre la pasteurisation du lait. *Québec Lait.* 7(12): 17-20, 37. Dec. 1948. 44.8 Q3

30332 BENDIXEN, H. A. Simplified butter composition control. *Amer. Butter & Cheese Rev.* 11(1): 2-3, 42. Jan. 1949. 44.8 Am37

30333 BOUCHEREAU, De l'utilisation du froid en beurrerie. *Rev. Prat. du Froid* 4(3): 37-38. (Cont.) Dec. 1948. 295.8 R323

Also in *Rev. Prat. du Froid* 4(4): 38-39. Jan. 1949. 295.8 R323

30334 BURTON, H. Possibilities in the sterilization of milk by means of radiations. *Soc. Dairy Technol. J.* 2: 75-80. Ref. Jan. 1949. 44.8 So12  
Discussion, p. 80-85.



- 30335 BUTTER and cheese, manufacture and grading. New Zeal. Dept. Agr. B. 300, 36 p. 1948. 23 N48Bu
- 30336 CAPSTICK, E. Future trends in dairying: manufacture. Soc. Dairy Technol. J. 2: 98-101. Jan. 1949. 44.8 So12  
Discussion, p. 101-103.
- 30337 CARIZZA, R. A. Tecnología de la leche: quesería. Contribución personal al estudio y conocimiento de algunos de sus problemas. Buenos Aires. Dir. Med. Vet. B. 5(23/26): 25-28. 1948. 41.9 B865
- 30338 CASTELO, M. La higiene del tambo. Uruguay. Min. de Ganad. y Agr. B. Inform. 244: 11; 245: 9; 521, 1. e. 251: 9. (Cont.) Nov. 11, 18, Dec. 30, 1948. 9.9 G15B
- 30339 CORREIA Y ALBERTY, A. Production of "Serra cheese" in the livestock-raising section of Coimbra. (In Portuguese.) Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 16: 47-50. 1948. 41.8 P83  
Sheep's-milk cheese.
- 30340 CRUZ, A. A. DA, and BORREGO, J. D. Sheep's-milk cheese and goat's-milk cheese. (In Portuguese.) Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 16: 17-24. 1948. 41.8 P83
- 30341 DASTUR, N. N., and BANERJEE, B. N. Manufacture and storage of ghee. Indian Farming 9: 278-288 July 1948. 22 In283
- 30342 DETWILER, J. S. What's new or on the horizon in dairy machinery equipment. Canad. Dairy & Ice Cream J. 28(1): 36-41. Jan. 1949. 44.8 C162
- 30343 DIAS, N. DA C., and BORREGO, J. D. Production of skim-milk cheese; some technical and economic information. (In Portuguese.) Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 16: 149-153. 1948. 41.8 P83
- 30344 DOAK, A. C. Your ice cream cabinet—its relation to your sales and profits. South. Dairy Prod. J. 45(2): 26, 28, 41. Feb. 1949. 44.8 So83
- 30345 DUSAULT, A. J. Ultra-violet in the dairy industry. So. African Dairyman 11(1): 28-29. Jan. 1949. 44.8 So822
- 30346 ENGLAND, C. W. Plant sampling, judging for quality improvement. Confectionery-Ice Cream World 41(2): 19. Jan. 14, 1949. 389.8 C767
- 30347 ENGLAND, C. W. The pursuit of quality in the manufacture of ice cream. South. Dairy Prod. J. 45(2): 102-104, 106, 110-113. Feb. 1949. 44.8 So83
- 30348 EVAPORATED MILK ASSOCIATION. 1948 annual report, Evaporated Milk Association and industry. 1949? 13 p. 44.9 Ev1A
- 30349 FINK, F. Beitrag zur verbesserung der qualität des Emmentalerkäses. Österr. Milch- u. Fettwirtschaft 3: 274-275. Dec. 1948. 44.8 Os72
- 30350 FOSTER, E. M. Quaternaries vs. chlorine in bacteria control. J. Milk & Food Technol. 12(1): 13-18. Ref. Jan./Feb. 1949. 44.8 J824
- 30351 GOODWILLIE, D. B. Concentrated milk and the ice cream industry. Canad. Dairy & Ice Cream J. 28(1): 27-29, 72, 74. Jan. 1949. 44.8 C162
- 30352 GOULD, J. S., and TARASSUK, N. P. Nature and properties of some new ice cream emulsifiers. Amer. Dairy Sci. Assoc. West. Div. Proc. (1948) 29: 119-121. 44.9 Am342
- 30353 GRAHAM-ENOCK, A. Seeing for one's self; fifty-seven thousand miles exploring the dairy equipment markets of the Empire. Dairy Indus. 14(1): 45-46, 48. Jan. 1949. 44.8 D1427
- 30354 GUALBA, C. La vaca automática. Cult. Mod. 31: 342. Sept. 1948. 15 C89
- 30355 GUIDAZIO, C. F. Como entregar leche de calidad. Campo y Suelo Argentino 32(386): 63. Dec. 1948. 9 C15
- 30356 HALL, T. L. Keeping cream grades up—and feed flavours down. New Zeal. Dairy Exptr. 24(5): 63. Nov. 1948. 44.8 N484  
Care and handling.
- 30357 HIRSCH, A. Sources of contamination in the handling of raw milk. Dairy Indus. 14(1): 42-44. Jan. 1949. 44.8 D1427
- 30358 HOLZER, H. Industrielle milchverwertung. In Switzerland. Schweizerische Milchkommission. Die schweizerische Milchwirtschaft, p. 491-542. Thun, 1948. 44 Sw62
- 30359 HOYT, L. W. Problems of processing and production in city milk plants. South. Dairy Prod. J. 45(2): 23, 38-40. Feb. 1949. 44.8 So83
- 30360 HULL, D. Buttermaking industry. New Zeal. Dept. Agr. B. 300: 1-16. 1948. 23 N48Bu
- 30361 HUMPHRISS, E. Balanced mix formulae. Dairy Indus. 14(1): 93-95. Jan. 1949. 44.8 D1427
- 30362 JANZEN, J. J., and BROWN, R. W. Canadian Cheddar cheese from pasteurized milk. J. Dairy Sci. 32: 1-9. Ref. Jan. 1949. 44.8 J822
- 30363 JESPERSEN, N. J. T. On some cheese technical conditions in Holland. (In Danish.) Nord. Mejeri-Tidsskr. 14: 137-139. 1948. 44.8 N752
- 30364 JOBSON, A. Food from the farm. Country Life [London] 105: 90-91. Jan. 14, 1949. 80 C83  
Equipment for buttermaking.
- 30365 KÄSTLI, P. Störungen in der milchverarbeitung durch die mastitisbehandlung mit penicillin. Schweiz. Arch. f. Tierheilk. 90: 685-695. Dec. 1948. 41.8 Sch9  
Cheese manufacture.
- 30366 KOERVER, C. Flavoring materials used in ice cream. South. Dairy Prod. J. 45(1): 32, 54-59; (2): 30-31, 46-47. Jan.-Feb. 1949. 44.8 So83
- 30367 KOESTLER, G. Dauerprodukte aus käse. In Switzerland. Schweizerische Milchkommission. Die schweizerische Milchwirtschaft, p. 465-490. Thun, 1948. 44 Sw62
- 30368 KÖNIG, G. A., and SKRAMER, G. A. Neuzeitliche käsebereitung; theorie und praxis. Norden i. Ostfrsld., Hopfer, 1947. 179 p. 44 K837
- 30369 KONOKOTIN, L. The Nazarov Canned Milk Factory. (In Russian.) Moloch. Promysh. 9(6): 30-31. June 1948. 44.8 M734
- 30370 KRIENKE, W. A., and HIBBS, R. A. Ice cream mixes as influenced by homogenization of only a part of the mix. Ice Cream Trade J. 44(11): 48-49, 78-79. Nov. 1948. 389.8 Ic2
- 30371 LARUE, P. Le fromage de brebis corse. Mouton. 3: 119. Nov. 1948. 45.8 M86  
Manufacture of Blue cheese.
- 30372 LEEDER, J. G. Some factors that may cause ice cream shrinkage. Confectionery-Ice Cream World. 41(6): 13, 16. Feb. 11, 1949. 389.8 C767
- 30373 LUND, B. The "new look" in ice cream sugars. Ice Cream Field 53(1): 46, 77-80. Jan. 1949. 389.8 Ic23
- 30374 MASUROVSKY, B. I. Factors affecting the basic flavor of mix. Ice Cream Trade J. 44(12): 74. Dec. 1948. 389.8 Ic2
- 30375 MASUROVSKY, B. I. Strawberry—first among the fruit ice creams. Ice Cream Trade J. 44(11): 56. Nov. 1948. 389.8 Ic2
- 30376 MATOS, A. A. P. DE, and SÁ, F. V. DE. Vegetable and animal coagulants in the manufacture of sheep's-milk cheese. (In Portuguese.) Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 16: 25-30. 1948. 41.8 P83
- 30377 MEYER, E. A. Dairy research under the Research and Marketing Act. Washington, U. S. Res. and Mktg. Act, Off. Admin., 1948. 5 p. 1.9422 In2M57  
Also in Milk Plant Monthly 38(1): 36, 64. Jan. 1949. 44.8 C864. Excerpts in Dairy World 27(8): 20-23. Jan. 1949. 44.8 D1423
- 30378 MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. Pasteurizing milk at home. Minn. U. Agr. Ext. Folder 133, 4 p. May 1948. 275.29 M66Ex
- 30379 MINUT, J. Un queso fresco de inmediato consumo. Indus. Lechera 30: 717-719, 721. (To be cont.) Nov. 1948. 44.8 In26
- 30380 MITTEN, H. L., JR. A. B. C's of refrigeration in dairy plants. So. African Dairyman 11(1): 18. Jan. 1949. 44.8 So822
- 30381 MOCKER, J. Eine gebäude-kartei. Österr. Milch- u. Fettwirtschaft 3: 221-223. Oct. 1948. 44.8 Os72  
Milk plant layouts.
- 30382 MULDER, H. Problemen en resultaten bij wetenschappelijk zuivelonderzoek [Problems and results in scientific dairy research]. 's-Gravenhage, Algemeene Nederlandsche Zuivelbond, 1947. 2 v. 44 M89



- 30383 MUSSETT, A. T., and MARTIN, W. H. Manufacture, use and storage of dehydrated sweetened condensed skimmilk. *Ice Cream Trade J.* 44(12): 54, 56, 81-82, 84-85. Dec. 1948. 389.8 Ic2
- 30384 NESSLER, A. E. Value of 3-A sanitary standards for dairy equipment: the user. *Milk Dealer* 38(4): 93-94, 96. Jan. 1949. 44.8 M595
- 30385 OLSON, R. E. Delivery outlook for dairy supplies and equipment. *South. Dairy Prod. J.* 45(1): 28-29, 60-62. Jan. 1949. 44.8 So83  
Also in *Amer. Butter & Cheese Rev.* 11(1): 22-26. Jan. 1949. 44.8 Am37
- 30386 OLSON, R. E. Value of 3-A sanitary standards for dairy equipment: the manufacturer of equipment. *Milk Dealer* 38(4): 96, 98, 100, 102. Jan. 1949. 44.8 M595
- 30387 PAIVA, J. V. C. DE. Manufacturing dairy products in the district of Aveiro. (In Portuguese.) Portugal. *Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 123-129. 1948. 41.8 P83
- 30388 PAIVA, J. V. C. DE. Sanitation in the dairy industry in the district of Aveiro. (In Portuguese.) Portugal. *Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 115-122. 1948. 41.8 P83
- 30389 PAN AMERICAN UNION. DIV. OF AGRICULTURAL COOPERATION. Elaboración de quesos. La Habana, 1947. 20 p. 150.91 EL1
- 30390 PARAFFINED CARTON RESEARCH COUNCIL. Packaged profits; new trends in ice cream production and merchandising. Chicago, 1948. 47 p. 389 P21
- 30391 PEARCE, J. A. Fritz butter process. *Australian Milk & Dairy Prod. J.* 15(9/10): 10. Sept./Oct. 1948. 44.8 Au72
- 30392 PIEN, J. Production biologique des substances concourant à la formation de l'arome du beurre. *Lait* 28: 455-465. (Concl.) Ref. Sept./Oct. 1948. 44.8 L143
- 30393 PRICE, D. Synthetic detergents — an explanation. *Amer. Butter & Cheese Rev.* 11(1): 18-20. Jan. 1949. 44.8 Am37  
Also in *Amer. Milk Rev.* 11(2): 38-40. Feb. 1949. 44.8 Am38
- 30394 RESUGGAN, J. C. L. Detergency. 2. *Milk Indus.* 29(7): 39-43. Jan. 1949. 44.8 M593
- 30395 SA, F. V. DE, and MATOS, A. A. P. DE. Some economic and technical data on cheese from Alentejo province, especially that of the Serpa region. (In Portuguese.) Portugal. *Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 85-93. 1948. 41.8 P83  
Sheep's-milk cheese.
- 30396 SAMMIS, J. L. Cheese making; a book for practical cheesemakers, factory patrons, agricultural colleges and dairy schools. Ed. 12, rev. Madison, Wis., Cheese Maker Book Co., 1948. 333 p. 44 D35C
- 30397 SANTOS, I. A. DOS, and CRUZ, A. A. DA. Aids to the study of curds used in the national cheese industry. (In Portuguese.) Portugal. *Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 105-114. 1948. 41.8 P83
- 30398 SANTOS, I. A. DOS. Note on hygiene in butter manufacture. (In Portuguese.) Portugal. *Dir. Geral dos Serv. Pecuários. B. Pecuário* 16: 99-103. Ref. 1948. 41.8 P83
- 30399 SCHUELKE, H. W. Production cost problems in the manufacture of ice cream. *South. Dairy Prod. J.* 45(1): 33, 42-43, 46-47. Jan. 1949. 44.8 So83
- 30400 SCHULZ, M., ed. *Milchwirtschaftliche patentberichte, 1935-1945.* Kempten-Allgäu, Fehr, 1947. 336 p. 44 Sch83M
- 30401 SHIPSTEAD, H., and PERRY, R. L. Problems of experimental condensing and spray drying. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 90-101. 44.9 Am342  
Milk
- 30402 SORDI, C. Modern machines and appliances for the transformation of milk into cheese. (In Italian.) *Mondo del Latte* 1948(12): 7-8, 25. Dec. 1948. 44.8 M74  
Summary in French and English.
- 30403 STAIBLE, L. Erfahrungen aus dreijähriger arbeit mit der butterungsmaschine "Fritz." *Süddeut. Molkerei-Ztg.* 69: 59-60. Mar. 11, 1948. 44.8 Su2
- 30404 STEINER S., J. Ventajas de la leche pasteurizada. *Agr. Trop.* 4(11): 21-26; (12): 23-28. Nov. 15-Dec. 15, 1948. 26 Ag8
- 30405 STÜSSI, D. Verarbeitung auf butter. In *Switzerland. Schweizerische Milchkommision. Die schweizerische Milchwirtschaft*, p. 291-346. Thun, 1948. 44 Sw62
- 30406 THOMANN, W. Verarbeitung auf käse. In *Switzerland. Schweizerische Milchkommision. Die schweizerische Milchwirtschaft*, p. 347-464. Thun, 1948. 44 Sw62
- 30407 TIEDEMAN, W. D. Value of 3-A sanitary standards for dairy equipment: the sanitarian. *Milk Dealer* 38(4): 51, 93. Jan. 1949. 44.8 M595
- 30408 TRACY, P. H. Emulsifier in ice cream. *Confectionery-Ice Cream World* 41(2): 15. Jan. 14, 1949. 389.8 C767
- 30409 TRACY, P. H. How to make good chocolate ice cream. *Confectionery-Ice Cream World* 41(4): 2. Jan. 28, 1949. 389.8 C767
- 30410 UETZ, F. E. Sanitary technology in the ice cream industry. *J. Milk & Food Technol.* 12(1): 41-47. Jan./Feb. 1949. 44.8 J824
- 30411 U. S. BUR. OF DAIRY INDUSTRY. Partial list of references on processed cheese and cheese spreads. U. S. Bur. Dairy Indus. *BDIM-Inf-68*, 2 p. Feb. 1949. 1.973 D4B34
- 30412 WALKER, J. J. Cheesemaking industry. *New Zeal. Dept. Agr. B.* 300: 17-27. 1948. 23 N48Bu
- 30413 WIESER. Lehrlingsprüfungen in Niederösterreich. *Österr. Milch- u. Fettwirtschaft* 3: 276-277. Dec. 1948. 44.8 Os72  
Cheese manufacture.
- 30414 WILLIAMS, D. H. The manufacture of ice cream. U. S. Bur. Dairy Indus. *BDIM-Inf-67*, 9 p. Jan. 1949. 1.973 D4B34
- 30415 WILSTER, G. H. Practical butter manufacture; a manual for buttermakers. Ed. 6. Corvallis, Oreg., OSC Coop. Assoc., 1948. 459 p. 44 W693
- 30416 ZHELTOVA, A. V. *Technologiya moloka i molochnykh produktov* [Technology of milk and dairy products]. Moskva, Sel'khozgiz, 1948. 206 p. 44 Z623
- 30417 ZOLLIKOFER, E., and JURI, R. Ein Beitrag zur monographie des piorakases. *Schweiz. Milchztg.* 75: 17-19, 29-31. (Cont.) Jan. 14, 21, 1949. 44.8 Sch92

## Statistics

- 30418 BEDRIJFSCHAP VOOR ZUIVEL. AFDELING STATISTIEK EN DOCUMENTATIE. *Statistisch jaaroverzicht* [Statistical yearbook], 1947. 1948. unpag. 259 B39  
Netherlands.
- 30419 PATOW, C. VON. Bemerkungen zum staldurchschnitt. *Neue Mitt. f. die Landw.* 3: 228-229. Aug. 5, 1948. 18 N39  
Statistics of milk production in Germany.
- 30420 U. S. BUR. OF AGRICULTURAL ECONOMICS. Milk production on farms and statistics of dairy plant products, 1948. Washington, 1949. 28 p. 1.941 H2M59
- 30421 U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to American cheese production in New York State. Albany, 1948. 17 p. 1.941 H2C41  
New York State Department of Agriculture and Markets cooperating.

## FEED AND FORAGE CROPS

- 30422 ADAMSON, M. Pellets 62% of California feed mill's growing trade. *Amer. Miller & Processor* 77(1): 162-163. Jan. 1949. 298.8 Am32
- 30423 ALLGYER, J. R. The Research and Marketing Act as it applies to feeds. *Feedstuffs* 20(46): 42, 44-49. Nov. 13, 1948. 286.81 F322
- 30424 ANCESCHI. Why one eats well and lives well and produces. (In Italian.) *Avenire Agr.* 56: 260-262. Oct. 1948. 16 Av9  
A forage growing program for an Italian province.
- 30425 BERGER, W. C. Feed price trends. *Flour & Feed* 49(9): 14-15. Feb. 1949. 298.8 F66
- 30426 BERGER, W. C. The squeals are getting louder. *Feedstuffs* 21(7): 47-50, 52. Feb. 12, 1949. 286.81 F322  
Feed outlook and livestock production trends.
- 30427 BROCK, F. D., and HOLLEMAN, M. P. Commercial feeding stuffs from September 1, 1947 to August 31, 1948. *Tex. Agr. Expt. Sta. B.* 703, 150 p. Sept. 1948. 100 T31S  
Inspection and analysis.
- 30428 COLE, V. G. Drought feeding requirements. *Muster* 3(13): 8. Nov. 15, 1948. 45.8 M97  
New South Wales.



- 30429 DIAMOND, W. Avenues for promotion of manufactured feeds. *Grain & Feed J. Consolidated* 102(3): 22. Feb. 9, 1949. 298.8 C762
- 30430 FISHER, H. J. Report on inspection, commercial feeding stuffs, 1947. Conn. (State) Agr. Expt. Sta. B. 522, 119 p. May 1948. 100 C76St
- 30431 FORMIGONI, L. Chemical composition of principal livestock feeds. (In Italian.) *Campagna* 47: 303, 305-307. Nov. 1948. 16 C152
- 30432 HUNTER, W. L. Feed control is a big job. *Feedstuffs* 21(7): 53-55. Feb. 12, 1949. 286.81 F322
- 30433 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Instructions for sampling hay and recording data in the project on the nutritive value of barn-cured hay. Ill. Agr. Col. Ext. AEng 576a, 3 p. July 26, 1948. 275.29 IL62Pa
- 30434 LORCH, M. Futterbau und viehwirtschaft in Bayern. *Landw. Wchnbl.* 138: 398-399. Nov. 27, 1948. 18 L2338
- 30435 MCDERMOTT, C. D. Distillers and feed industry. *Westernnews* 10(5): 12-15. Jan. 1949. 389.78 W522
- 30436 MARIKULANDAI, A. Fodder scarcity and the possibilities of exploiting straw processing in Madras Presidency. *Madras Agr. J.* 35: 276-287. Ref. Oct. 1948. 22 M262
- 30437 MASSACHUSETTS FEED CONTROL SERV. Inspection of commercial feedstuffs. *Mass. Agr. Expt. Sta. Control Ser. B.* 136, 24 p. June 1948. 100 M38H
- 30438 MITCHELL, H. L., and PARRISH, D. B. Determination of carotene in silage. *J. Dairy Sci.* 32: 33-35. Jan. 1949. 44.8 J822
- 30439 MOSKEY, H. E. Feeds, feed supplements, and medicated feeds for livestock under the Federal Food, Drug and Cosmetic Act. *North Amer. Vet.* 29: 701-704. Nov. 1948. 41.8 N812
- Also in *Feed Bag* 25(1): 43-44. Jan. 1949. 389.78 F32
- 30440 PECK, L. Current nutritional trends and their effect on retail feed men. *Grain & Feed Rev.* 38(6): 14, 62-63. Feb. 1949. 280.28 G78
- 30441 PÉRUCHON DE BROCHARD, J. Nouvelles mesures concernant la vérification et l'homologation avant fabrication des formules d'aliments composés pour le bétail. *Rustica* 22: 25. Jan. 9, 1949. 14 R92
- 30442 RASKOFF, B. D., and ROBERTSON, F. R. Marketing cottonseed feed products in Tennessee. *Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog.* 240, 38 p. Jan. 10, 1949. 173.2 W89Co
- 30443 RAVAGLIOLI, T. The specific weight of dry forages. (In Italian.) *Gior. di Agr.* 58: 342. Dec. 5, 1948. 16 It1G
- 30444 RINEHART, E. F. Idaho's diminishing hay stocks can be conserved and supplemented. *West. Livestock Rptr.* 9(25): 2, 15. Feb. 9, 1949. 286.85 W523
- 30445 SARKAR, B. C. R. The stability of carotene in artificially-dried plant material on storage. *Mich. Agr. Expt. Sta. Q. B.* 31: 165-169. Nov. 1948. 100 M58S
- Forage plants.
- 30446 SMITH, A. M., and COMRIE, A. The composition of Lothians seeds-hay. *Edinb. and East Scot. Col. Agr. Misc. P.* 29, 4 p. 1948. 103 Ed4M
- 30447 STADLER, H. Das futter als grundlage der viehwirtschaft. *Salzburg. Bauer* 3(47): 2-3. (Cont.) Nov. 18, 1948. 19 Sa3
- 30448 STIVER, E. J. Service is watchword of feed dealers. *Milling & Feed* 30(2): 19. Feb. 1949. 298.8 C162
- 30449 TOMME, M. F., KSANFOPULO, O. I., and SEMENTOVSKAIA, N. M. Mineral'nyi sostav [Mineral composition of feeding stuffs]. *Moskva, Sel'khozgiz*, 1948. 254 p. 389.7 T59M
- 30450 UPTON, E. W. Dried grass, 1949. *Fert., Feed. Stuffs & Farm Supplies J.* 35: 45, 47-48. Jan. 26, 1949. 57.8 F413
- Grading.
- 30451 VITTORANGELI. A public comment. (In Italian.) *Avenire Agr.* 56: 252-253. Oct. 1948. 16 Av9
- The feed problem in Italy.
- 30452 WARD, A. H. Unrationed feedingstuffs. *Gr. Brit. Min. Agr. Agriculture* 55: 427-432. Jan. 1949. 10 G79J
- 30453 ZÜRN, F. Wie stellt man den weideertrag fest? *Salzburg. Bauer* 3(52/53): 2. Dec. 23, 1948. 19 Sa3
- Determination of feed requirements for animals.
- FIBERS AND TEXTILES
- 30454 ABAZA, O. King Cotton's throne on the Nile. *Cotton Trade J. Internatl. Ed.* (1948/49) 16: 34-35. 1948. 72.8 C8214I
- 30455 ACKERMAN, F. E. Wool, the laboratory and the future. *Wolboer* 1948(14): 27-28. Sept. 1948. 45.8 W83
- 30456 AHMAD, N. Pakistan: a white future. *Cotton Trade J. Internatl. Ed.* (1948/49) 16: 118-121. 1948. 72.8 C8214I
- Cotton industry.
- 30457 AMERICAN VISCOSE CORPORATION. How rayon is made. New York, 1947. 16 p. (Consumer Serv. Sect. 700) 304 Am36H
- 30458 ANDALO, G. The hemp situation. (In Italian.) *Gior. di Agr.* 59: 13. Jan. 9, 1949. 16 It1G
- 30459 ANDALÒ, G. The price of hemp. (In Italian.) *Agr. Modenese* 5(1): 3. Jan. 1/15, 1949. 16 Ag8255
- 30460 ARMOUR, A. L. Preparación de lanas para su venta. *Campo y Suelo Argentino* 32(386): 7-8. Dec. 1948. 9 C15
- 30461 ASTBURY, W. T. Die wissenschaft von den fasern. *Textil-Praxis* 4(1): 3-10. Jan. 1949. 304.8 T3143
- 30462 BALASUBRAHMANYAN, R. Madras builds cotton prosperity. *Cotton Trade J. Internatl. Ed.* (1948/49) 16: 122-125. 1948. 72.8 C8214I
- 30463 BALL, J. G. Advantages gained from binning wool. *New Zeal. J. Agr.* 77: 477-478. Nov. 1948. 23 N48J
- 30464 BARKE, J. S. A new system of spinning. *Indian Textile J.* 59(697): 26-30. Oct. 1948. 304.8 In2
- 30465 BARKER, A. F. The architecture of wool fibres. *Textile Mfr.* 74: 588-592; 75: 40-42. (Cont.) Dec. 1948, Jan. 1949. 304.8 T3126
- 30466 BARKER, H. D., and POPE, O. A. Fiber and spinning properties of cotton: a correlation study of the effect of variety and environment. *U. S. D. A. Tech. B.* 970, 47 p. Ref. Dec. 1948. 1 Ag84Te
- 30467 BENNETT, C. A. Present engineering research in ginning. *Cotton Gin & Oil Mill Press* 50(2): 9-10, 21. Jan. 22, 1949. 304.8 C822
- 30468 BENNETT, R. D. The use of nylon fibre on woollen and worsted systems. *Textile Mercury & Argus* 120: 93, 95, 97, 99. Jan. 21, 1949. 304.8 T318
- 30469 BERGEK, T. The viscose process as an object for research. (In Swedish.) *Norsk Skogindus.* 2: 289-296. Nov. 1948. 99.82 N81
- English summary.
- 30470 BIEGERT, K. Richtige wollbehandlung und wollepflege; lehrgang der württembergischen schäfer bei der Deutschen Wollverwertung in Neu-Ulm. *Süddeut. Schäferzeitg.* 38: 165-168. Oct. 16, 1948. 45.8 Su2
- 30471 BLACK, W. W. What shall we do about ramie? *Textile Colorist & Converter* 70(12): 18-19, 41-43. Dec. 1948. 306.8 T31
- 30472 BÖHRINGER, H. Mechanisch-technologische prüfverfahren an der faserflocke. I. *Textil-Praxis* 4(1): 11-14. Jan. 1949. 304.8 T3143
- 30473 BOWDEN, C. W., JR. Continuous bleaching improved by instrumentation. *Textile World* 99(2): 124-125, 211-212, 216, 218. Feb. 1949. 304.8 T315
- 30474 BRANNAN, C. F. Cotton takes a new lease on life as it aids world recovery. *Cotton Trade J. Internatl. Ed.* (1948/49) 16: 6-7, 75. 1948. 72.8 C8214I
- 30475 BRAY, R. J. The organization of wool research. *Ann. Appl. Biol.* 35: 460-463. Sept. 1948. 442.8 An72
- 30476 CALCUTTA BALED JUTE SHIPPERS ASSOCIATION. Report, 1947. *Calcutta*, 1948. 45 p. 73.39 C123
- 30477 CALDWELL, S. A. G. Modern jute manufacture. VI. *Fibres* 10(1): 7-10. Jan. 1949. 304.8 F16
- 30478 CALKINS, E. W. S. Cotton versus rayon in tires. *Spinner-Breeder Conf. Proc.* 5: 42-43. 1948. 72.9 C765
- 30479 CALLAO, V. Microbiologia textil. *Textiles Panamer.* 9(2): 49-50, 52-54. Feb. 1949. 304.8 T3142
- 30480 CALVO, C. A. Casimir-cachemira-Kashmir. *Argentina. Dir. de Inform. P. Misc.* 291, 4 p. 1948. 9 P943



- 30481 CALVO, C. A. Lanas Corriedale, su producción relacionada a la uniformidad. Argentina. Dir. de Inform. P. Misc. 289, 7 p. 1948. 9 P943
- 30482 CALVO, C. A. Lanas y corderos Corriedale. Argentina. Dir. de Inform. P. Misc. 288, 7 p. 1948. 9 P943
- 30483 CAMPBELL, I. J. Cotton's California empire. Cotton Gin & Oil Mill Press 50(1): 12-20; (2): 12-19, 22. Jan. 8, 22, 1949. 304.8 C822
- 30484 CANADA. BUR. OF STATISTICS. INDUSTRY AND MERCHANDISING DIVISION. GENERAL MANUFACTURES SECT. Report on the cordage, rope & twine industry in Canada, 1947. 1949. 11 p. 253 C332I
- 30485 CARRERAS PALET, J. Problemas de la elaboración de las fibras artificiales. Textiles Panamer. 9(2): 68-71. (To be cont.) Feb. 1949. 304.8 T3142
- 30486 CHAKRABARTI, B. K., and NODDER, C. R. Some effects of the helical fibrillar structure of vegetable fibres. Nature [London] 163: 19-20. Jan. 1, 1949. 472 N21
- 30487 CHÜ, C. H. A new method for degumming ramie. Textile Mfr. 75(889): 38-39. Jan. 1949. 304.8 T3126
- 30488 CLARK'S directory of southern textile mills, 1948. Charlotte, N. C., 1948. 414 p. 304.8 C56
- 30489 COCKBURN, R., DRUCKER, B., and LINDLEY, H. The action of alkalis on wool. 3. Biochem. J. 43: 438-444. Ref. 1948. 382 B52
- 30490 COENE, R. DE. Méthodes statistiques pour l'étude des essais de rendements cotonniers à Bambesa. B. Agr. du Congo Belge 39: 803-818. Dec. 1948. 24 K83
- 30491 COHEUR, C. Essais de rouissage sur Urena lobata. B. Agr. du Congo Belge 39: 841-854. Dec. 1948. 24 K83
- 30492 COLLETTE, J. P. E. Over-production of rayons in 1949? Canad. Textile J. 66(1): 30. Jan. 7, 1949. 304.8 C16
- 30493 COOPERATIVA ALGODONERA SALVADOREÑA LIMITADA. Memoria de las labores de la institución, 1947/48. San Salvador, 1948. 27 p. 280.2729 C78M
- 30494 COTTON Trade Journal, International edition, 16th, 1948-49. Memphis, Tenn., 1948. 196 p. 72.8 C8214I
- 30495 DABBOUS, R. La position statistique des cotons égyptiens. Soc. Belge d'Études & d'Expansion. B. Bimest. 47: 716-723. Nov./Dec. 1948. 280.8 S017
- 30496 DAKIN, G. Cotton: fibre and yarn. II. Fibres 10(1): 11-15. Jan. 1949. 304.8 F16
- 30497 DALGETY AND COMPANY LIMITED. Dalgety's annual wool review, 50th, 1947/48. 1948. 143 p. 23 Au75A Australia.
- 30498 DE GRUY, I. V. Textiles through the microscope. Sci. Monthly 68: 61-65. Jan. 1949. 470 Sci23
- 30499 DESPORTE, J. Un plan français de développement des plantes textiles autres que le cotonnier. Courrier Agr. 13(24): 1-2. Nov. 24, 1948. 24 C83 French colonies.
- 30500 DIJKMEIJER, E. Textiel [Textiles]. Amsterdam, Lieverlee, 1948? 3 v. 304 D562 Contains chapters on various fibers.
- 30501 DOBSON, B. A. P., and WATSON, W. H. The case for modernisation in cotton spinning. (Abs.) Textile Mfr. 74: 558-562. Dec. 1948. 304.8 T3126
- 30502 DORMAN, H. J., and PRINGLE, A. V. Carding of jute and flax. Textile Mfr. 75(889): 29, 43. Jan. 1949. 304.8 T3126
- 30503 DUMVILLE, J., and KERSHAW, S. The worsted industry. Ed. 4. London, Pitman, 1947. 157 p. Ref. (Pitman's Common Commodities and Indust.) 304 D89
- 30504 DUNKERLEY, J. R. Cotton opening and card-room processes. Textile Mfr. 74: 579-580, 593. Dec. 1948. 304.8 T3126
- 30505 EARLE, M. D., and MINKIN, J. A. A new method of sectioning synthetic fibers with the ultra-microtome for examination with the electron microscope. Textile Res. J. 19(1): 36-41. Jan. 1949. 304.8 T293
- 30506 ELLIS, W. J. Method for obtaining wool roots for histochemical examination. Nature [London] 162: 957. Dec. 18, 1948. 472 N21
- 30507 ERICKSON, F. C. The broken Cotton Belt. Econ. Geog. 24: 263-268. Oct. 1948. 278.8 Ec7
- 30508 EVANS, R. B. Synthetic fibers and paper as competitors of cotton. U. S. Bur. Agr. and Indus. Chem. AIC-217, 12 p. Dec. 10, 1948. 1.932 A2Ag82 Similar article in Spinner-Breeder Conf. Proc. 5: 30-34. 1948. 72.9 C765
- 30509 FEUBEL, A., and HILGERS, F. Über das herabsetzen der quellfähigkeit von regenerierten zellulosehydratfasern durch trocknungsprozesse normaler und anomal hoher temperaturen. Melliand Textilber. 29: 233-235. July 1948. 304.8 T312 Summary in English and French.
- 30510 FISHER, F. The batching of hard fibres. I. Fibres, Fabrics & Cordage 15: 393; 16: 17, 30. Dec. 1948, Jan. 1949. 304.8 Ir42
- 30511 FONG, H. D. "Promised land" of tomorrow; cotton plays dramatic role as 450,000,000 Chinese face long uphill climb. Cotton Trade J. Internatl. Ed. (1948/49) 16: 98-99, 103, 184-188. 1948. 72.8 C8214I
- 30512 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. World fiber survey. Washington, 1947. 186 p. 281.373 F73 Statistical.
- 30513 FORTESS, F. The interaction of various organic liquids with cellulose acetate fibers as detected by specific-gravity measurements. Textile Res. J. 19(1): 23-35. Jan. 1949. 304.8 T293
- 30514 GADRE, R. N. Cotton planning for the Central Province. Indian J. Agr. Econ. 3(2): 73-78. Sept. 1948. 281.8 In2
- 30515 GEORGE, J. F. Ante-projecto para concentrações algodoeiras. Portugal. Junta de Export. do Algodão Colon. Deleg. de Moçambique. Sér. Divulg. 2, 12 p. 1947. 286.3729 P83
- 30516 GERDES, F. L. Recent developments promise improved ginning technology, more efficiency. South. Textile News 5(5): 34, 47. Jan. 29, 1949. 304.8 S083 Also in Cotton Gin & Oil Mill Press 50(3): 7-8, 25-29. Feb. 5, 1949. 304.8 C822
- 30517 GOEDECKE, O. Cotton challenges all of us. Spinner-Breeder Conf. Proc. 5: 23-26. 1948. 72.9 C765 Discussion, p. 26-27.
- 30518 GOLDBERG, J. B. Textile research achievements in 1948. Textile B. 75(1): 39-40, 42, 44, 46. Jan. 1949. 304.8 S082 Also in South. Textile News 5(5): 3. Jan. 29, 1949. 304.8 S083; and in Amer. Dyestuff Rptr. 38(3): 140-143. Feb. 7, 1949. 306.8 Am3
- 30519 GONZALEZ ORTIZ, A. Los productores de algodón y la industria textil. Agr. Trop. 4(12): 43-45. Dec. 15, 1948. 26 Ag8
- 30520 GORDON, G. B. A competitive market in cotton textiles? Canad. Textile J. 66(1): 26-28. Jan. 7, 1949. 304.8 C16
- 30521 GRANHALL, I. Modern flax processing in Sweden. (In Danish.) Kungl. Lantbruksakad. Tidskr. 87: 409-417. 1948. 104 Sw3 English summary.
- 30522 GT. BRIT. MINISTRY OF SUPPLY. COMMITTEE OF INVESTIGATION INTO THE COTTON TEXTILE MACHINERY INDUSTRY. Report. London, 1947. 2 Nos. 304 G7934
- 30523 HARRIS, C. A. Recent research on the mechanical behavior of textiles. Lowell Textile Inst. B. (ser. 52) 2, 7 p. Ref. Nov. 1948. 73.9 L95B Includes the visco-elastic behavior of fibers.
- 30524 HARRISON, G. J. Recent advances & future trends in cotton improvement. Cotton Trade J. Internatl. Ed. (1948/49) 16: 154-155. 1948. 72.8 C8214I
- 30525 HASSAN, A. A. Commercial transactions market of cotton and cotton seed. (In Arabic.) Beni-Sweif, Al-Marssad Press, 1947. 107 p. 280.372 H27
- 30526 HELLER, F. E. The cotton outlook. Amer. Dyestuff Rptr. 38(3): 138-139. Feb. 7, 1949. 306.8 Am3
- 30527 HESS, K. P. Textile fibers and their use. Ed. 4. Philadelphia, Lippincott, 1948. 599 p. Ref. 304 H46
- 30528 HIND, J. R. Woollen & worsted raw materials. Ed. 2. London, Benn, 1948. 214 p. 45 H58
- 30529 HODGSON, W. Fibre control in worsted spinning. Textile Mercury & Argus 120: 179, 181, 183. Feb. 4, 1949. 304.8 T318
- 30530 HOHLS, H. W. Über das wärmehaltungsvermögen von Angorakaninchenwolle und anderen faserstoffen. Melliand Textilber. 29: 221-225. July 1948. 304.8 T312 Summary in English and French.



- 30531 HONEGGER, E. Internationale normung auf dem gebiete der textilindustrie. Textil-Rundschau 3: 429-432. Dec. 1948. 304.8 T3139
- 30532 HOWE, P. S. Long staple cotton. Spinner-Breeder Conf. Proc. 5: 27-30. 1948. 72.9 C765
- 30533 HUFFINES, R. L., JR. The significance of the growing synthetic textile industry. Amer. Dyestuff Rptr. 38(1): 36-37. Jan. 10, 1949. 306.8 Am3
- 30534 INDIA. INFORMATION & BROADCASTING DEPT. PUBLICATIONS DIV. King Cotton, the Indian cotton and textile industry. Bombay, 1947. 43 p. (Mod. India Ser. 2) 304 In22
- 30535 INSTITUTE OF TEXTILE TECHNOLOGY. Institute of Textile Technology. n. p., 1948. 4 p. 304.9 In72
- 30536 INTERNATIONAL COTTON ADVISORY COMMITTEE. For consideration by the Standing Committee at its third meeting, July 8, 1948 [proposal of the Economic Commission for Europe to FAO for a joint research project on the future of fibers and textiles in the European economy]. Washington, 1948. 2 p. 304 In86
- 30537 JACQUES-FELIX, H., and RABECHAULT, H. Recherches sur les fibres de quelques Urticacées africaines. Agron. Trop. 3: 339-384, 451-488. Ref. July/Aug.-Sept./Oct. 1948. 26 Ag86
- 30538 JEANMAIRE, H. Cotton cultivation in the French overseas territories. Textile Colorist & Converter 70(12): 28, 44. Dec. 1948. 306.8 T31
- 30539 JOHNSON, A. Wool's "new look" and England's new front. Country Life [Sydney] 60(22): 1, 7. Nov. 26, 1948. 286.85 Sy2
- 30540 JOHNSON, B. Relations of cotton fibers to mill machinery. Cotton Trade J. Internatl. Ed. (1948/49) 16: 146-147, 150, 162. 1948. 72.8 C82141
- 30541 KASBEKAR, P. D., and PANDIT, B. A. Asians must live together if at all. Cotton Trade J. Internatl. Ed. (1948/49) 16: 106-109. 1948. 72.8 C82141  
Cotton industry.
- 30542 KHALET'SKIĬ, V. To make better use of the flax processing machines at the machine tractor stations. (In Russian.) Mashinno-Traktorn Stanfs. 7(10): 18-20. Oct. 1947. 53.8 M11
- 30543 KIRSCHNER, B. Was muss der baumwoll-spinner über strecken wissen? I. Textil-Praxis 4(1): 16-17. Jan. 1949. 304.8 T3143
- 30544 KIRST, W. Waschfestere wolle—verringierung der alkalilöslichkeit durch einbau neuer brückenglieder in das wollkeratin. Melliand Textilber. 29: 236-240. July 1948. 304.8 T312  
Summary in English and French.
- 30545 LEEMANS, O. Antwerp port of progress. Cotton Trade J. Internatl. Ed. (1948/49) 16: 73-74. 1948. 72.8 C82141  
Includes cotton storage capacity.
- 30546 LESSLIE, C., HAGAN, L., and GUTHRIE, J. D. Determination of wax content of raw cotton fiber. Analyst. Chem. 21(1): 190-191. Jan. 1949. 381 J825A
- 30547 LINDEBERG, G. Tensile strength and chemical composition of the middle lamella of the flax fibre. Experientia 4: 476-477. Dec. 15, 1948. 475 Ex7  
German summary.
- 30548 LITTLE, J. D. Theorists grope in the dark: socialist cotton controls may break down in buyer's market. Cotton Trade J. Internatl. Ed. (1948/49) 16: 38-40, 44, 174-175. 1948. 72.8 C82141
- 30549 LÜDTKE, M. Der wasser- und dampfaufschluss von bastfaserpflanzen. Melliand Textilber. 29: 199-202. June 1948. 304.8 T312  
English summary.
- 30550 LUND, R. G. Comment la recherche lainière aide l'éleveur. Mouton 3: 109-111. Nov. 1948. 45.8 M86
- 30551 LUSK, H. R. The processing of greasy wool to finished cloth. New Zeal. J. Agr. 77: 579-581, 583. Dec. 1948. 23 N48J
- 30552 MACDONALD, C. G. Canadian mills hold the price line. Cotton Trade J. Internatl. Ed. (1948/49) 16: 28-30. 1948. 72.8 C82141
- 30553 MCKENZIE, B. W., JR. Nylon: reprocessing staple on the cotton system. Textile Forum 5(4): 12-14. Winter 1949. 304.8 T3191
- 30554 MCWILLIAMS, C. Cotton in California. Nation 168: 210-212. Feb. 19, 1949. 280.8 N215
- 30555 MANN, M. G. Cotton in Carolina economy. Tarheel Banker 27(8): 5-6. Feb. 1949. 284.8 T17  
North Carolina.
- 30556 MARSH, J. T. Textile science; an introductory manual. London, Chapman & Hall, 1948. 388 p. 304 M352T  
Part one is on textile fibers.
- 30557 MARSHALL, H. North Carolina textile industry credited with solid accomplishments in 1948. South. Textile News 5(5): 22, 43. Jan. 29, 1949. 304.8 So83
- 30558 MARTÍN DE NICOLÁS, A. Problema textilero [Cuba]: sus causas determinantes. Rev. Nač. de Cien. Polít.-Econ.-Sociales 8(86): 7-8. Jan. 1949. 280.8 R3295
- 30559 MAYNE, J. B. Jute bags supply problems. Agr. Gaz. N. S. Wales 59: 516-517. Oct. 1948. 23 N472
- 30560 MORERA, V. Aprovechamiento de la paja del rastrojo de lino para la obtención de estopa. Campo y Suelo Argentino 32(385): 26-27, 33. Nov. 1948. 9 C15
- 30561 MORTON, W. E., and SUMMERS, R. J. Fibre arrangement in card silvers. Textile Mfr. 75(889): 27-28. Jan. 1949. 304.8 T3126
- 30562 MURAYAMA, T. Fiber of democracy; cotton industry helps build new way of life in Japan. Cotton Trade J. Internatl. Ed. (1948/49) 16: 100-102. 1948. 72.8 C82141
- 30563 MURCHISON, C. T. Textile industry entering new era. South. Textile News 5(5): 2. Jan. 29, 1949. 304.8 So83
- 30564 NADARAJAH, S. Ceylon's coir fibre industry. Ceylon Trade J. 13: 397-405. Dec. 1948. 286.8 C333
- 30565 NATESAN, M. S. Indian cotton before and after partition. Indian Cotton Growing Rev. 2: 159-166. Oct. 1948. 72.8 In23
- 30566 NATIONAL ASSOCIATION OF WOOL MANUFACTURERS. Wool in the United States. New York, 1947. 34 p. 304 N214
- 30567 NATIONAL COUNCIL OF WOOL SELLING BROKERS OF AUSTRALIA. Wool review 1947-48. Melbourne, 1948? 15 p. 286.85 N216W
- 30568 NEW YORK COTTON EXCHANGE. Cotton year book, 1947. New York, 1948. 143 p. 287 N488Y
- 30569 NODDER, C. R. Some notes on fine [jute] spinning. Indian Cent. Jute Com. Jute B. 11: 249. Oct. 1948. 73.38 In2
- 30570 NORTH CAROLINA. STATE PLANNING BOARD. Whole cotton as a source for pulp, cellulose and oils; a composite report...and Appendices. Raleigh, 1947. 66 p. Ref. 280.7 N819W
- 30571 OLLEA, D. E. La producción de algodón es una riqueza agrícola valiosa y de gran importancia para la nación. Gac. Algodonera 24(298): 1-4. Nov. 30, 1948. 72.8 G11  
Argentina.
- 30572 OWEN, C. P. Lint certification in Mississippi. Spinner-Breeder Conf. Proc. 5: 21-23. 1948. 72.9 C765
- 30573 PANHUYZEN, J. A. Dutch textiles speed recovery. Cotton Trade J. Internatl. Ed. (1948/49) 16: 78-80, 84. 1948. 72.8 C82141
- 30574 PATON, H. Dust suppression by preconditioning of cotton. Textile Weekly 42: 1402, 1404, 1406-1407. Dec. 24, 1948. 304.8 T3127
- 30575 PFLUGFELDER, F. Notwendigkeit der produktionssteigerung in der zweizylinderspinnerei und anregungen zu ihrer durchführung. Melliand Textilber. 29: 191-194. June 1948. 304.8 T312  
English summary.
- 30576 PINTE, C. La détermination du degré de polymérisation moyen des fibres cellulosiques dans un laboratoire de recherches scientifiques appliquées, Paris, Institut textile de France, 1948. 21 p. 387.1 P652
- 30577 POMFRET, N. H. Common faults in cotton yarns. Canad. Textile J. 66(3): 42-43. Feb. 4, 1949. 304.8 C16
- 30578 PORTER, H. G. A new price policy for cotton. Farm Policy Forum 2(1): 69-72. Jan. 1949. 281.8 F2274
- 30579 PRINGLE, A. V. The theory and practice of flax spinning. Fibres, Fabrics & Cordage 15: 403-406; 16: 18-23. (Cont.) Dec. 1948, Jan. 1949. 304.8 Ir42
- 30580 QUIG, J. B. "Orlon" acrylic fibre — a new synthetic. Canad. Textile J. 66(1): 42-44, 46-47. Jan. 7, 1949. 304.8 C16  
Also in Rayon & Synthetic Textiles 30(2): 79-80. (To be cont.) Feb. 1949. 304.8 R21



- 30581 RAUCH, W. Vergleichende physikalische untersuchungen an natur- und kunstseiden. Melliland Textilber. 29: 185-190. Ref. June 1948. 304.8 T312 English summary.
- 30582 REIN, H. Polyacrylnitril-fasern; eine neue gruppe von synthetischen fasern. Angew. Chem. Ausg. A. 60: 159-161. June 1948. 384 Z33
- 30583 ROBERTS, S. K. Peron seeks "third position." Cotton Trade J. Internatl. Ed. (1948/49) 16: 138-140. 1948. 72.8 C82141 Textile industry.
- 30584 RODRIGUEZ CASALS, C. Industrialización de la caña brava. Rev. de Agr. Trop. [Salvador] 14(25): 75-78. 1947. 8 R326
- 30585 ROSS, I. C. The contribution of scientific research to the wool industry. (Sum.) So. Austral. Dept. Agr. J. 52: 115-116. Oct. 1948. 23 So84
- 30586 RUILLER, R. With faith in our future; French cotton industry tackles reconstruction. Cotton Trade J. Internatl. Ed. (1948/49) 16: 45-47. 1948. 72.8 C82141
- 30587 SAVELL, M. Apparel wool supply surveyed; world consumption this year may exceed production by 3,000,000,000 pounds. Wolboer 1948(14): 9, 8. Sept. 1948. 45.8 W83
- 30588 SCHÄPPI, W. H. Über die veränderung spinnmattierter viskosekunstseide bei der belichtung. St. Gallen, Zollikofer, 1947. 40 p. 304 Sch12 Promotionsarbeit-Eldgenössische technische Hochschule, Zürich.
- 30589 SCHOFFELMAYER, V. H. Chemurgic uses for surplus cotton and gin waste. Tex. Chemurgic News 4(71): 1-2. Jan. 1, 1949. 381 T29
- 30590 SCHOFFELMAYER, V. H. White gold in the western sun. Cotton Trade J. Internatl. Ed. (1948/49) 16: 18-21, 25. 1948. 72.8 C82141 Cotton industry.
- 30591 SCRIMGEOUR, C. F. Peruvian cotton turns to gold. Cotton Trade J. Internatl. Ed. (1948/49) 16: 141-143, 188-189. 1948. 72.8 C82141
- 30592 SEN, D. L. Under the microscope; laboratory solves India's cotton problems. Cotton Trade J. Internatl. Ed. (1948/49) 16: 126, 128. 1948. 72.8 C82141
- 30593 SEN GUPTA, R. Modern man-made fibres. Indian Textile J. 59(698): 153-158. (To be cont.) Nov. 1948. 304.8 In2
- 30594 SHEPHERD, J. V. The value of fiber testing in research and marketing. Spinner-Breeder Conf. Proc. 5: 44-45. 1948. 72.9 C765
- 30595 SMITH, H. P. The processing of mechanically stripped cotton. n. p., 1948. 6 p. 72 Sm5
- 30596 SMITH, L. Cotton explores its opportunities. Cotton Trade J. Internatl. Ed. (1948/49) 16: 166-169. 1948. 72.8 C82141
- 30597 SNELSON, J. T. Moth proofing—the permanent protection of woollen textiles from damage by clothes moths. Textile J. Australia 23: 856-861. Dec. 20, 1948. 304.8 T3134
- 30598 SOBRY, J. M. L. Whitest cotton from darkest Africa: Belgian Congo growths in great demand. Cotton Trade J. Internatl. Ed. (1948/49) 16: 68-70. 1948. 72.8 C82141
- 30599 SPEISER, J. J. Switzerland: European dynamo. Cotton Trade J. Internatl. Ed. (1948/49) 16: 89-90. 1948. 72.8 C82141 Cotton textile industry.
- 30600 SPIELMAN, H. W. Food or cotton? Cotton Trade J. Internatl. Ed. (1948/49) 16: 110-113, 124-125. 1948. 72.8 C82141 India.
- 30601 STAUDINGER, H. Über den aufbau von natürlichen und synthetischen fasern. Textil-Rundschau 4: 3-17. Jan. 1949. 304.8 T3139
- 30602 STEIN, R. S., KRIMM, S., and TOBOLSKY, A. V. An investigation of the relationship between polymer structure and mechanical properties. II. Textile Res. J. 19(1): 8-22. (Cont.) Ref. Jan. 1949. 304.8 T293
- 30603 STEVENS, R. T. The rayon outlook. Amer. Dyestuff Rptr. 38(2): 90-91. Jan. 24, 1949. 306.8 Am3
- 30604 TAYLOR, F. Swedish expansion held up. Cotton Trade J. Internatl. Ed. (1948/49) 16: 85, 192. 1948. 72.8 C82141 Cotton textile industry.
- 30605 THOMPSON, M. O. Cotton takes its place as one of New Mexico's big money crops. N. Mex. Stockman 14(2): 18-19. Feb. 1949. 49 N462
- 30606 THORNDIKE, G. H. The woollen carding condenser. Textile Mfr. 75(889): 28. Jan. 1949. 304.8 T3126
- 30607 TONER, R. K., BOWEN, C. F., and WHITWELL, J. C. Moisture determination in textiles by electrical meters. II. Textile Res. J. 19(1): 1-8. Jan. 1949. 304.8 T293
- 30608 TROTTER, I. P. Observations on the cotton situation in China in 1948. U. S. Off. Foreign Agr. Relat. FC-1-49, 7 p. Jan. 31, 1949. 1.943 F7626
- 30609 UNDERWOOD, C. Spinning test methods—Shirley Institute, 1948. Empire Cotton Growing Rev. 26: 14-31. Jan. 1949. 72.8 Em7
- 30610 U. S. BUREAU OF INTERNAL REVENUE. EXCESS PROFITS TAX COUNCIL. The cotton textile industry; an economic analysis of the industry with reference to the investigation of claims for relief under section 722 of the Internal revenue code. Washington, 1948. 241 p. 151.51 C82
- 30611 THE UNITED States Department of Agriculture. Fibre & Fabric 101(3316): 6, 8. Jan. 1, 1949. 304.8 F44 Research in wool industry problems.
- 30612 U. S. PRODUCTION AND MARKETING ADMIN. Cotton quality statistics, United States, 1947-48. U. S. Prod. and Mktg. Admin. CS-33, 61 p. Dec. 1948. 1.9422 A8C732
- 30613 VANDEMARK, F. J. Use of machines in the flow of cotton. Cotton Trade J. Internatl. Ed. (1948/49) 16: 164-165. 1948. 72.8 C82141
- 30614 VIKTOROV, P. P. New data on the physico-chemical condition of cotton fibres under action of reagents. Brit. Chem. Digest 3: 69-71. Dec. 1948. 382 B774
- 30615 WALDO, W. G. Ramie and its products. (In Portuguese.) Fazenda 44(1): 48-50. Jan. 1949. 6 H11P
- 30616 WALZ, F. Staubfilteranlagen in der baumwoll-spinnerei. Melliland Textilber. 29: 226-227. July 1948. 304.8 T312 Summary in English and French.
- 30617 WARD, K., JR. Recent research on cotton properties at the Southern Regional Research Laboratory. Amer. Dyestuff Rptr. 38(3): P122-P126. Feb. 7, 1949. 306.8 Am3
- 30618 WASASTJERNA, J. A. The textile situation in Finland. Unitas 1948: 89-93. Nov. 1948. 286.8 Un32
- 30619 WEGENER, W. Das krempeln von seide. Melliland Textilber. 29: 46-50. Feb. 1948. 304.8 T312 English summary.
- 30620 WELLS, P. A. The organization of wool education. Ann. Appl. Biol. 35: 463-466. Sept. 1948. 442.8 An72
- 30621 WELLS, P. A. The organisation of wool marketing [Great Britain]. Textile Mfr. 74: 576-578. Dec. 1948. 304.8 T3126
- 30622 WHITEMAN, J. What's happening in the wool business. N. Mex. Stockman 14(1): 10; (2): 58. Jan.-Feb. 1949. 49 N462
- 30623 WILKINSON, E. Shrinkage control—a stretch of the imagination. Textile J. Australia 23: 842-844. Dec. 20, 1948. 304.8 T3134 Wool.
- 30624 WILLATT, N. Increased cotton production in British Africa. Crown Colon. 19(207): 75-76. Feb. 1949. 280.8 C88
- 30625 WILLIAMS, D. J. Substitutes for shoe leather: an official study. Anim. Friend 55: 109-110. Nov./Dec. 1948. 410 An5 Textiles, paper, wood included.
- 30626 WILLIAMS, F. Britain teeters on world price spiral. Cotton Trade J. Internatl. Ed. (1948/49) 16: 36-37, 90-91. 1948. 72.8 C82141
- 30627 WINDEL, D. Prospects for world raw cotton production and consumption in 1948-49—a preliminary survey. Empire Cotton Growing Rev. 26: 42-47. Jan. 1949. 72.8 Em7
- 30628 WOMBLE, E. The application of Diesel power to cotton gins. Cotton Trade J. Internatl. Ed. (1948/49) 16: 156-158, 169-172. 1948. 72.8 C82141
- 30629 WOOL year book, 1948. Manchester, Textile Mercury Ltd., 1947. 645 p. 45.8 W883



- 30630 WORMELL, R. L., and HAPPEY, F. Regenerated keratin fibres. *Nature* [London] 163: 18. Jan. 1, 1949. 472 N21  
With note by E. H. Mercer, p. 18-19.
- 30631 WRIGHT, J. G. Universal penchant for merino wool. *Com. B.* 91(4799): 11. Feb. 5, 1949. 286.8 C736
- 30632 YOUNG, H. A. Cotton learns to fight—and win. *Cotton Trade J. Internatl. Ed.* (1948/49) 16: 22-25. 1948. 72.8 C82141
- 30633 YOUNG, H. A. What is the 1949 cotton outlook? *Ark. Farmer* 51: 6. Jan. 1949. 6 Ar42
- 30634 YOUNGER, R. Australian wool trade. *Textile Inst. J.* 39: P588-P589. Nov. 1948. 73.9 T31
- 30635 ZELNIK, G. New preparatory machines speed wool scouring. *Textile World* 99(2): 118-119, 206, 208, 211. Feb. 1949. 304.8 T315
- 30636 ZELOMEK, A. W. Wool outlook. *Meat & Wool* 110(2): 2-3. Nov. 15, 1948. 286.85 M463
- FRUITS, VEGETABLES, AND NUTS**
- 30637 ALCORN, G. B. Price and crop outlook. *Fruit & Veg. Rev.* 9(11): 12. Jan. 1949. 80 C1224
- 30638 ARNOLD. Zweck und aufgabe der obst- und gemüseberichterstattung. *Thür. Gartenbau* 1947(9): 3-4. Aug. 1, 1947. 80 T42
- 30639 BECH, P. The nursery industry in 1948. (In Danish.) *Gart. Tid.* 65(1): 1-2. Jan. 5, 1949. 80 G192  
Fruit and vegetables.
- 30640 BROWN, H. D. Vegetable growers association launches expansion program. *Mkt. Growers J.* 78: 18, 31, 32. Jan. 1949. 6 M34  
Vegetable Growers Association of America Inc.
- 30641 BUDD, C. North Texas onion production—a speculative industry. *Tex. Geog. Mag.* 12(2): 8-18. Fall 1948. 331.8 T31
- 30642 BUSH, R. Curacao is far from paradise. *Grower* 31: 65. Jan. 8, 1949. 286.83 M34  
Discusses fruit and vegetable production.
- 30643 CADILLAT, R. M. La culture de la banane [Martinique]. *Marchés Colon.* 5: 223, 225, 227, 229. Jan. 29, 1949. 286.8 M33
- 30644 CANESTRARI, R. Need for increasing rational fruit culture. (In Italian.) *Mezzogiorno Agr.* 4(37): 1. Sept. 26, 1948. 16 M57
- 30645 CARNCROSS, J. W. Declining vegetable yields challenge New Jersey farmers. *N. J. Agr. Expt. Sta. C.* 519, 8 p. Sept. 1948. 100 N46S
- 30646 CHANEY, C. M., and others. How to cure the crisis in the cranberry industry. *Cranberry World* 3(4): 3, 5-6, 8. Jan. 1949. 280.28 C85  
G. Cowen, G. Briggs and E. L. Bartholomew, joint authors.
- 30647 CONGRÈS INTERNATIONAL DES PRODUCTEURS DE JUS DE FRUITS, 1, PARIS, 1948. Le jus de fruits dans le monde. Compte rendu, communications, rapports. Paris, 1948. 120 p. 389.69 C76
- 30648 CONLEY, H. L. Best "ball carriers" of the food industry. *Canner* 108(1): 30. Jan. 1, 1949. 286.83 C16  
Pickles.
- 30649 COPRA FUND. The copra situation in the Netherlands East Indies. *Batavia*, 1948. 9 p. 286.377 C79
- 30650 CROSBY, J. Emperor growers must swim or sink! *Calif. Farmer, North. Ed.* 190: 69. Jan. 15, 1949. 6 C126  
Emperor grape situation.
- 30651 DIJCK, VAN. The vegetable industry situation. (In Flemish.) *Tuinbouwberichten* 12: 188-189, 191. Dec. 15, 1948. 80 T817
- 30652 DOZIER, W. H. A walnut industry view of the Federal farm program. *Diamond Walnut News* 31: 4-5. Jan. 1949. 94.68 D34
- 30653 DU PLESSIS, H. A. La banane à la Martinique. *Cahiers Colon. (n. s.)* 12: 392-394. (To be cont.) Dec. 1948. 286.8 M35
- 30654 FAURE, J. Le problème mondial actuel des fruits comestibles. *Soc. Sci. d'Hyg. Aliment. B.* 36: 261-275. 1948. 389.9 S01B
- 30655 FAURE, J., and CADILLAT, R. La production fruitière mondiale et aperçu sur son orientation. *Fruits d'Outre Mer* 3: 330-338. Ref. Oct. 1948. 80 F9492
- 30656 FLACCOMIO, E. Need for increasing consumption of lemons, the "health fruit." (In Italian.) *Riv. Ital. Essenze, Profumi, Piante Off., Olii Veg., Saponi* 30: 472, 474. Nov. 15, 1948. 308.8 R52
- 30657 FLORIDA FRUIT & VEGETABLE ASSOCIATION. Annual digest, 2d, 1948. Orlando, 1948. 126 p. 281.3919 F66
- 30658 FLORIDA fruit and vegetable directory, 1948/49. Jacksonville, 1948? 234 p. 255 F662
- 30659 GINOX, R. Situation des producteurs de légumes en 1948. *Bouches du Rhone Agr.* 22(994): 13. Jan. 15, 1949. 14 B662
- 30660 GONZALEZ, C. Lo que representa la campaña viticula que adelanta el Valle del Cauca. *Rev. Nac. de Agr.* 42(514): 9-12. Feb. 1948. 9.4 R32
- 30661 GOPALAN, K. Desiccated coconut industry. *Indian Farming* 8: 338-341. July 1947. 22 In283
- 30662 GRAINGER, H. S. Carob juice. *Chem. & Druggist* 151(3594): 54-55. Jan. 8, 1949. 396.8 C42
- 30663 GUZZINI, D. Cases strange, but not so strange. (In Italian.) *Gior. di Agr.* 58: 366. Dec. 26, 1948. 16 It1G  
Fruit and vegetable policy in Italy.
- 30664 HARVEY, G. R. Fruit and vegetable group [of the American Farm Bureau Federation] will study many problems. *Hoosier Farmer* 34(2): 19. Feb. 1949. 280.82 H76
- 30665 HAVIGHORST, C. R. Advanced methods bring top efficiency in huge cannery. *Food Indus.* 21: 53-57, 83-90. Jan. 1949. 389.8 F737  
Hawaiian Pineapple Company.
- 30666 HEDENBERGER. Feldgemüsebau nach wie vor! *Landw. Wchnbl.* 138: 428. Dec. 11, 1948. 18 L2338  
Germany.
- 30667 HERAS MONTERO, A. La sandfa, fruto de consumo muy popular. *Aliment. Nac.* 7(123): 3. July 10, 1948. 389.8 AL42
- 30668 HOY, B. Advent of railway in 1891 brought orchard industry's expansion. *Country Life* [Vernon] 33: 14, 25, 26. Jan. 1949. 7 C832  
In British Columbia.
- 30669 HUBBARD, E. S. The apple drama of '48. *Apple Prom.* 1948: 1-3. Dec. 1948. 281.3939 N48
- 30670 JOHNS, W. M. Canning and garden pea seed production. *Tasmanian J. Agr.* 19: 230-231. Nov. 1948. 23 T182T
- 30671 KEATLEY, V. Hot stuff. *Farm Q.* 3(4): 54, 130-135. Winter 1948. 6 F22995  
Red pepper industry in Arizona.
- 30672 KNIGGE, A. FREIHERR. Kommt 1949 wieder eine gemüse-absatzkrise? *Neue Mitt. f. die Landw.* 3: 459, 461. Dec. 15, 1948. 18 N39  
Germany.
- 30673 LAVOLLAY, J., and PATRON, A. Les jus de fruits. *Inst. des Fruits et Agrumes Colon. Sér. Tech.* 3, 70 p. Ref. June 30, 1948. 389.9 P21
- 30674 LAWRENCE, F. P. Summary of research investigations being conducted in the citrus by-products field. *Citrus Indus.* 30(2): 14, 16-17, 19-21. Feb. 1949. 80 C49
- 30675 LEE, I. M. California early potatoes situation and outlook, 1948. *Calif. Agr. Expt. Sta. C.* 390, 30 p. Nov. 1948. 100 C12S
- 30676 MCFEELY, H. F. Spinach is big business. *Pa. Farm Econ.* 33: 5-7. Dec. 1948. 275.29 P382Pf  
The industry in Pennsylvania.
- 30677 MAGELLI, E. 50 thousand fruit plants in the new Piacentino plantations. (In Italian.) *Gior. di Agr.* 58: 344. Dec. 5, 1948. 16 It1G
- 30678 MEYER, E. A. What is the future for apples? *Hoosier Hort.* 30: 151-156. Oct./Nov. 1948. 81 In2H
- 30679 MIDDLE AMERICA INFORMATION BUR. Middle America and bananas. New York, 1947. 7 p. 286.393 M58
- 30680 MIEGE, E. Faut-il envisager une limitation éventuelle des plantations d'agrumes? *Inform. Maroc.* 404: 1, 4. Oct. 9, 1948. 281.8 In3
- 30681 MILLIMAN, L. H. Competition from foreign nuts is outlined. *Better Fruit* 43(7): 13. Jan. 1949. 80 B46



30682 MUKHERJEE, S. Tapioca as a solution of the food problem. *Sci. and Cult.* 13: 118-119. Sept. 1947. 475 Sci24

With a note by N. T. Mathew.

30683 NUSSBAUM, V. Date industry needs new organization in '49. *West. Canner & Packer* 41(2): 45, 47. Feb. 1949. 286.83 W522

30684 PICKETT, J. Why did Bartlett's do it? *Calif. Farmer, North. Ed.* 190: 50. Jan. 15, 1949. 6 C126

Bartlett pear industry, Solano County.

30685 PLACENNER, J. Les agrumes de l'Afrique du Nord. *Fructidor (n. s.)* 14(36): 13-14. Dec. 25, 1948. 286.83 F9423

30686 PLASSCHE, A. W. V. D. The importance of fruit production for the small farm. (In Dutch.) *Stichting v. den Landb. Meded.* 2(5): 1-3. Feb. 27, 1947. 12 St5  
Netherlands.

30687 LE PRESENT et l'avenir de l'arboriculture. *Inform. Maroc.* 401: 1, 4. Sept. 18, 1948. 281.8 In3  
Fruit.

30688 RECH, A. Economic problems of the [Brazilian] grape region. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 3(29): 13-14, 16. Nov. 1948. 280.28 C7856

30689 REINEKE, W. Rückblick und ausblick im gemüsebau. *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 341-342. Dec. 4, 1948. 18 L2346

30690 RICHARDS, A. Nut trees for West Tennessee. *Tenn. Mkt. B.* 21(1): 6. Jan. 15, 1949. 280.38 T25

30691 RIMBAUD, H. L'avenir de la production bananière [Martinique]. *Marchés Colon.* 5: 229. Jan. 29, 1949. 286.8 M33

30692 ROSSI, L. Fruit culture in the Tuscan Romagna Appenines. (In Italian.) *Romagna Agr. e Zootec.* 33(11): 3. Nov. 1948. 16 R66

30693 SCHINDLER, Der pflanzkartoffelbau in Südbaden. *Neue Mitt. f. die Landw.* 3: 114. Apr. 21, 1948. 18 N39

30694 SCHMIDT, L. Die gartenbau-ausstellung: blumen, gemüse und obst in der Wiener Herbstmesse 1948. *Landwirtschaft* 1948: 244-245. Sept. 18, 1948. 19 L235

30695 SCHREIBER, W. R. World dried prune production in 1948 estimated below 10-year average yield. *Sunsweet Standard* 32(8): 10-12. Jan. 1949. 286.83 Su7

30696 STEWART, R. A. Fruit Velvet in B. C. *Rur. Co-op.* 12(3): 8. Oct. 14, 1947. 280.28 R88

30697 SWARTZBERG, I. The story of Maraschino cherries. *Food Mart News* 12(25): 4. Jan. 15, 1949. 286.28 F732  
The industry.

30698 WALLA, M. Produktionssteigerung und einführregelung im gemüse, obst- und blumenbau. *Wiener Bauernbündler* 2(1): 2-3. Jan. 8, 1949. 19 W632

30699 WEBBER, W. T. In-shell pack completely sold; high quality and cellophane pack help movement; progress payment increased to 80 percent of credit values. *Diamond Walnut News* 31: 1-2. Jan. 1949. 94.68 D34

30700 WHITE, L. Minor tropical fruits: present prospects and difficulties. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 1(4): 3-7. Oct. 1948. 281.9 Au73

30701 WIGNALL, R. W. Greater production at less cost is a must. *Citrus Leaves* 29: 12-13, 33. Jan. 1949. 80 C492

30702 WILSON, J. N. Pineapple industry of Hawaii. *Econ. Geog.* 24: 251-262. Oct. 1948. 278.8 Ec7

#### Analysis and Composition

30703 ALFIN, R. B., and CALDWELL, M. L. Further studies of the action of pancreatic amylase: a differentiation of the products of the hydrolysis of potato starch and of a linear fraction from corn starch. *Amer. Chem. Soc. J.* 71: 128-131. Jan. 1949. 381 Am33J

30704 BEAR, F. E. Regional variations in the mineral composition of vegetables. *Land* 7: 378-382. Autumn 1948. 279.8 L22

30705 BOUMAN, J. Aneurine determination in potatoes. *Internat. Z. f. Vitaminforsch.* 19: 386-393. 1948. 389.8 Z33

Summary in French and German.

30706 CHAVES, J. M., PECHNIK, E., and MATTOSO, I. V. Peachpalm (*Guilielma speciosa*, Mart.); study of its chemical composition and food value. (In Portuguese.) *Rev. de Quím. Indus.* 17(198): 14-16. Oct. 1948. 385 R324

30707 CHEVALIER, R., and DUPAIGNE, P. Étude sur le dosage de l'acide ascorbique dans les jus d'oranges conservés. *Acad. d'Agr. de France. Compt. Rend.* 34: 875-879. Ref. Oct. 27/Nov. 3, 1948. 14 P215Bc

30708 DIXON, J. W. The sugar test for wine grapes. *Wine Rev.* 17(1): 14-15. Jan. 1949. 390.8 W722

30709 HOPKINS, R. H., JELINEK, B., and HARRISON, L. E. The action of  $\alpha$ -amylase on potato amylose. *Biochem. J.* 43: 32-38. Ref. 1948. 382 B52

30710 HOPKINS, R. H., and JELINEK, B. The fractionation of potato starch. *Biochem. J.* 43: 28-32. 1948. 382 B52

30711 JOSEPH, G. H., and BAIER, W. E. Methods of determining the firmness and setting time of pectin test jellies. *Food Technol.* 3(1): 18-22. Ref. Jan. 1949. 389.8 F7398

30712 KETHLEY, T. W., COWN, W. B., and BELLINGER, F. Develop new test for gaging leakage from frozen fruits and berries. *Food Indus.* 21: 179-182, 286-287. Ref. Feb. 1949. 389.8 F737

30713 MCCOLLUM, E. V. A bold stroke; in comment on the Rutgers findings. *Land* 7: 383-384. Autumn 1948. 279.8 L22

Mineral content of vegetables.

30714 NOBLE, I., and HANIG, M. M. D. Ascorbic acid and dehydroascorbic acid content of raw and cooked vegetables. *Food Res.* 13: 461-471. Ref. Nov./Dec. 1948. 389.8 F7322

30715 RYGG, G. L. Acidity in relation to quality in the date fruit. *Date Growers' Inst. Rpt.* (1948) 25: 32-33. 1949. 81 D26

30716 TRUSCOTT, J. H. L. Testing of vegetable varieties comprises laboratory work. *Food Canada* 9(1): 18. Jan. 1949. 389.8 F7323

#### Consumption and Utilization

30717 BEATTIE, J. H. La rosella (*Hibiscus sabbarriff*), planta textil; utilización de su fruto. *Rev. de Agr. Trop. [Salvador]* 14(25): 73-75. 1947. 8 R326

30718 CHILD, R. Coconut shells. *Trop. Agr. [Ceylon]* 104: 38-40. Jan./Mar. 1948. 26 T751  
Utilization.

30719 GARRISON, E. E. Consumer comparison study of four varieties of Tennessee frozen strawberries. *Tenn. U. Rec. Ext. Ser.* 24(5), 15 p. July 1948. 280.9 T252

30720 MIÈGE, E. L'utilisation des marcs de raisin. *Inform. Maroc.* 406: 1, 4. Oct. 24, 1948. 281.8 In3

30721 MUZIO, A. M. Industrialización de la batata y el zapallo. *Campo y Suelo Argentino* 32(386): 55. Dec. 1948. 9 C15

30722 WINGROVE, E. New uses for filberts are being developed. *Better Fruit* 43(7): 14, 16. Jan. 1949. 80 B46

#### Distribution, Marketing, and Transportation

30723 ALLISON, W. Growers market own potatoes to guard quality and profits. *West. Farm Life* 50(20): 26-27. Oct. 15, 1948. 6 R153  
Grower-Shipper Potato Co., Colorado.

30724 BAXTER, J. L. Merchandising seasonal, perishable vegetables. *Canning Trade* 71(29): 40. Feb. 7, 1949. 286.83 T67

30725 BROWN, L. Comments on apple advertising. *East. Fruit Grower* 11(11): 12, 14, 16, 19. Jan. 1949. 80 Ea73

30726 CALIFORNIA. BUR. OF MARKETS. Marketing program for canning Bartlett pears, as amended. *Pear zone No. 1. San Francisco?* 1947. 17 p. 280.393 C123Ma

30727 CALIFORNIA CANNING PEACH ASSOCIATION. Annual report, December 21, 1948. San Francisco, 1949? 7 p. 280.3939 C12

30728 CALIFORNIA. DEPT. OF AGRICULTURE. Marketing program for canning Bartlett pears, *Pear zone no. 1. California canning Bartlett pear statistics 1938-1947 inclusive.* San Francisco, 1947. 8 p. 280.393 C123M

30729 CROSBY, J. Can trucks offset rail freight increases? *Calif. Farmer, North. Ed.* 190: 36-37. Jan. 15, 1949. 6 C126

Fruit and vegetable transportation costs.



- 30730 DELOACH, D. B., and MOORE, J. C. Trial shipments of Oregon late-crop potatoes. *Oreg. Agr. Expt. Sta. B.* 460, 32 p. Oct. 1948. 100 Or3
- 30731 DONELSON, L. E. What a co-op! *Farm J.* 73: 26-29. Jan. 1949. 6 F2212  
Pennsylvania Co-operative Potato Growers, Inc.
- 30732 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. The co-operative marketing of horticultural produce in England and Wales. *Gt. Brit. Min. Agr. and Fisheries. Econ. Ser.* 49, 68 p. 1948. 280.9 G792
- 30733 GUNNER, P. J. Teamwork in marketing peaches between retailer and grower. *Va. Fruit* 37: 110-114. Jan. 1949. 81 V81B
- 30734 HARVEY, E. M. Transportation tests with lemons. (Sum.) *Calif. Citrog.* 34: 158-159. Feb. 1949. 80 C125
- 30735 HOPPER, W. C. New Zealand appoints new board to market apples and pears. *Foreign Trade* 5: 234-236. Jan. 29, 1949. 286.8 C162
- 30736 HUTCHISON, J. D. Co-operative auction marketing of green tomatoes. *Pa. Farm Econ.* 33: 4-5. Dec. 1948. 275.29 P382Pf
- 30737 MARCHATERRE, R. J. Truck transportation of perishables; a Packer report. VIII. Minneapolis-St. Paul. *Packer* 49(9): 1, 18. Jan. 29, 1949. 286.8 N483
- 30738 MEYER, E. A. Progress under the Research and Marketing Act. Washington, U. S. Res. and Mktg. Act, Off. Admin., 1948. 11 p. 1.9422 In2M57  
Marketing research with reference to fruits and vegetables.
- 30739 MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. Best buys in fruits and vegetables. *Minn. U. Agr. Ext. Pam.* 97, rev., 4 p. May 1948. 275.29 M66P
- 30740 MOORE, C. B. Transportation problems. *West. Grower & Shipper* 20(2): 12, 34-35. Jan. 1949. 280.38 W52  
Vegetables.
- 30741 MORIANI, U. Standardización, cosecha y envase para duraznos. *Campo y Suelo Argentino* 32(386): 68-69. Dec. 1948. 9 C15
- 30742 NEALE, E. G. Thoughts on merchandising perishables. *Packer* 49(10): 5AAA, 9AAA. Feb. 5, 1949. 286.8 N483
- 30743 NIELSEN, A. C. Food buying habits. (excerpts.) *Calif. Retail Grocers Advocate* 54(2): 15, 17-18. Jan. 14, 1949. 286.28 C12
- 30744 PENTZER, W. T. A comparison of riding quality of refrigerator cars loaded with bananas shipped from New Orleans, Louisiana, to Chicago, Illinois, July 27-30, 1948. U. S. Bur. Plant Indus., Soils, and Agr. Engin. H. T. & S. Off. Rpt. 196, 14 p. Nov. 16, 1948. 1.9 P772Ht
- 30745 PLACENNER, J. Le transport par avion des agrumes nord-africains. *Fructidor* (n. s.) 14(35): 13. Dec. 15, 1948. 286.83 F9423
- 30746 READ, F. W. Promoting sales of Comice winter pears in Los Angeles. *Blue Anchor* 26(1): 16-17, 19, 37. Feb. 1949. 286.83 B62
- 30747 REICH, W. A. The wholesale grocers' stake in the better retail merchandising of fresh fruits and vegetables. *Amer. Grocer* 161(4): 53-55. Jan. 26, 1949. 286.83 Am32
- 30748 ROUSSEL, L. Le transport aerien des fruits. *Fruits et Primeurs de l'Afrique du Nord. Ed. Maroc.* 18: 388-390. Dec. 1948. 80 F9482  
Also in *Colon Franç. de Tunisie* 59(2081): 3. Jan. 8, 1949. 24 C712
- 30749 SIMONNEAU, P. Le transport aerien des fruits. *Colon Franç. de Tunisie* 58(2079): 1. (To be cont.) Dec. 25, 1948. 24 C712
- 30750 SLATER, L. E., and HARDENBURG, R. E. Exploiting fresh corn for volume sales. *Super Mkt. Merchandising* 14(2): 83, 85-86, 88, 90, 92. Feb. 1949. 389.8 Su7
- 30751 SOLT, M. Functions of the Marketing Order and the Date Advisory Board. *Date Growers' Inst. Rpt.* (1948) 25: 3-4. 1949. 81 D26
- 30752 STANLEY, L. T. Truck transportation of perishables; a Packer report. VII. Benton Harbor District. *Packer* 49(8): 1, 11. Jan. 22, 1949. 286.8 N483
- 30753 TAWSE, W. J. Apple marketing. *Canad. Grower* 72: 10. Jan. 10, 1949. 80 C16
- 30754 TEST, R. J. Wide-spread benefits of motor trucks and trailers. *Fruit & Veg. Rev.* 9(10): 18-19, 29. Jan. 1949. 80 C1224
- 30755 WALLA, M. Warum wollen die gemüseproduzenten nicht selbst auf den markt fahren? *Wiener Bauernbündler* 1(14): 3. Oct. 30, 1948. 19 W632
- 30756 WELCH, J. H. A golden stream of gift citrus. *Tex. Farming & Citric.* 25: 6-7. Jan. 1949. 80 T31
- 30757 WILLIAMS, C. G. Harvesting, handling, and packing of pineapples. *Queensland. Div. Plant Indus. Adv. Leaflet* 130, 9 p. Feb. 12, 1948. 423.92 Q3A

#### Grading, Inspection, Standardization, and Quality

- 30758 BAKER, G. L., and WOODMANSEE, C. W. Grading pectins. *Food Technol.* 3(1): 23-28. Jan. 1949. 389.8 F7398
- 30759 FLORIDA CITRUS COMMISSION, LAKE LAND, FLA. List of registered labels, brands & trademarks, 1948-49 season. 1948? 25 p. 280.39 F663
- 30760 HELLER, M. E., NOLD, T., and WILLAMAN, J. J. Survey of apple juice packed in 1947. *Fruit Prod. J. & Amer. Food Mfr.* 28: 164-166. Feb. 1949. 389.8 F94
- 30761 HENKES, H. J. M. Improvement of fruit quality. (In Dutch.) *Stichting v. den Landb. Meded.* 2(7): 1-3. Mar. 27, 1947. 12 St5  
Netherlands.
- 30762 INGRAM, M. Fermentation in concentrated orange juice. *I. Food Manufacture* 24: 77-81. Feb. 1, 1949. 389.8 F736
- 30763 MESCHTER, E. E., and LATAILLADE, L. J. The preservers' stake in uniform pectin grading. *Food Technol.* 3(1): 28-33. Jan. 1949. 389.8 F7398
- 30764 MOTTERN, H. H. The need for standardization of pectin. *Food Technol.* 3(1): 34-35. Jan. 1949. 389.8 F7398
- 30765 SMITH, R. J. Accuracy of sampling. *Calif. Citrog.* 34: 98, 139. Jan. 1949. 80 C125  
Also in *Citrus Leaves* 29: 18, 31. Jan. 1949. 80 C492
- 30766 THYM, A. M., and SMITH, R. J. Mechanized fruit and vegetable sampling. *West. Canner & Packer* 41(2): 43-44. Feb. 1949. 286.83 W522
- 30767 WINSTON, J. R., and MILLER, E. V. Vitamin C content and juice quality of exposed and shaded citrus fruits. *Food Res.* 13: 456-460. Ref. Nov./Dec. 1948. 389.8 F7322

#### Packing and Packaging

- 30768 BEECHAM, W. Apple packing down under. *Fruit, Flower & Veg. Trades' J.* 95: 19. Jan. 1, 1949. 80 F946
- 30769 COOK, W. W. The effect of picking practice upon date packing cost. *Date Growers' Inst. Rpt.* (1948) 25: 30-31. 1949. 81 D26
- 30770 DRYDEN, R. A look at the gift package business; a Packer report; III. Rio Grande Valley. *Packer* 49(11): 1, 26. Feb. 12, 1949. 286.8 N483  
Fruit and vegetables.
- 30771 HAUCK, C. W. Prepackaged produce requires high quality standards and good retail management. *Ohio. State U. Dept. Rur. Econ. & Rur. Sociol. Mimeog. B.* 207, 31 p. Dec. 1948. 281.9 Oh32
- 30772 SELTZER, R. E. Possibilities of paperboard containers for fresh grapefruit. *Ariz. Agr. Expt. Sta. Mimeog. Rpt.* 84, 14 p. Sept. 1948. 100 Ar4M  
Preliminary report.
- 30773 TEXTE, L'emballage du raisin de table. *Emballages* 109: 12-15. Nov./Dec. 1948. 309.8 Em1

#### Prices, Price Control, and Rationing

- 30774 CANADA. MARKETING SERVICE. MARKET INFORMATION SECTION. Seasonal price summaries, fresh fruits and vegetables on 12 Canadian markets, 1948. 23 p. 284.39 C162S
- 30775 COSLINE, H. L. Potatoes, the problem child. *Amer. Agr.* 145: 686. Dec. 18, 1948. 6 Am3  
Price support program.
- 30776 GOODIN, R. E. How the potato support price affects Ontario price. *Canad. Grower* 72: 7. Jan. 10, 1949. 80 C16
- 30777 SCOVILLE, G. P. Apple prices. *N. Y. Agr. Col. Farm Econ.* 165: 4244-4247. Dec. 1948. 280.8 C812



30778 STOLP, A. vegetable prices in Batavia, Bandoeng and Patjet. (In Dutch.) Weekbl. v. Indonesië 14: 973-975. Nov. 13, 1948. 280.8 Ec76

30779 TRIGGS, M. Federal price assistance for citrus? Calif. Citrog. 34: 142, 154-155. Feb. 1949. 80 C125

#### Processing and Storage

30780 ASSOCIATION OF NEW YORK STATE CANNERS, INC. New York state pack of fruits and vegetables, 1947. 1948. 7 p. 389.9 As73Nf

30781 ATKINSON, F. E., and STRACHAN, C. C. The manufacture of natural apple juice. Fruit Prod. J. & Amer. Food Mfr. 28: 132-133, 157. Jan. 1949. 389.8 F94

30782 AUSTERN, H. T. Comment on grower contracts. Canning Trade 71(29): 50. Feb. 7, 1949. 286.83 T67

30783 AUSTRALIAN DRIED FRUITS ASSOCIATION. General secretary's report to delegates to Federal Council, 1948. n.p., 1948. 5 p. 281.3939 Au7 Statistics.

30784 BAKED bean processing—in cans and glass. Food Indus. 21: 201-204. Feb. 1949. 389.8 F737 A flow chart.

30785 BAREISS, G. Problem kartoffellagerung. Württemb. Wchnbl. f. Landw. 116: 7. Jan. 1, 1949. 18 W96

30786 BARGER, W. R., and others. A comparison of fungicidal treatments for the control of decay in California cantaloupes. Phytopathology 38: 1019-1024. Dec. 1948. 464.8 P56

J. S. Wiant, W. T. Pentzer, A. L. Ryall, and D. H. Drew, joint authors.

30787 BARNEBY, T. New method cuts apple losses. East. Fruit Grower 11(11): 7-8, 20, 22. Jan. 1949. 80 Ea73

Storage.

30788 BASS, F., and WILMOT, J. Tomatoes processed by three methods. J. Home Econ. 40: 519-520. Nov. 1948. 321.8 J82

30789 BEAUQUIER, C. Une installation frigorifique pour la conservation du raisin. Rev. Prat. du Froid 4(4): 33-36. Jan. 1949. 295.8 R323

30790 BELL, R. S. Pasteurizing pickles with walking beam box. West. Canner & Packer 41(2): 31-32. Feb. 1949. 286.83 W522

30791 BLAKEY, J. C. Improved canning methods for pears. Canad. Food Indus. 20(2): 23-25. Feb. 1949. 286.83 C166

30792 BOULAIS, J. La Station Expérimentale de la Conserve de Parme. Fruits d'Outre Mer 3: 382-384. Nov. 1948. 80 F9492

30793 BRANDT, E. Experiments with freezing of fruits and vegetables. (In Danish.) Gart. Tid. 65: 24-25. Jan. 19, 1949. 80 G192

30794 BUNDY, W. A. New peeler speeds canning to-mato preparing. West. Canner & Packer 41(2): 22-24. Feb. 1949. 286.83 W522

30795 COVER, S., and others. Safe method for canning blackeye peas at home. Tex. Agr. Expt. Sta. Prog. Rpt. 1142, 2 p. Dec. 23, 1948. 100 T31P  
A. B. Smith, M. P. Shepperd, and E. G. Crawford, joint authors.

30796 CROCE, F. M. Desecación y deshidratación de manzanas. Rev. Mens. Ilus. B. A. P. 32(374): 41-45. Jan. 1949. 9 R326

30797 CRUESS, W. V. Comparison of canned and frozen tomato juice. Quick Frozen Foods 11(3): 120. Oct. 1948. 389.8 Q4

30798 CULPEPPER, C. W., and others. Dehydration of tomatoes. Fruit Prod. J. & Amer. Food Mfr. 28(2): 45-53, 56. (To be cont.) Oct. 1948. 389.8 F94

J. S. Caldwell, W. S. Porte, and M. C. Hutchins, joint authors.

30799 CURTIS, L. The pantry on parade. Ala. Polytech. Inst. Agr. Ext. C. 366, 4 p. Dec. 1948. 275.29 AL1C

Canned foods.

30800 DAVIS, L. L. Processing apples and peaches. Va. Fruit 37: 171-174. Jan. 1949. 81 V81B

30801 DENAIFFE. Comportement des pommes de terre après la récolte. Jard. de France (ser. 7) 2: 243-244. (To be cont.) Nov. 1948. 86 Sol3

30802 DUFFAUT, R., and LAMY, C. Le procédé "Krebsner" et la conservation des fruits. Génie Rural 41: 285-287. Oct. 1948. 58.8 Au8

30803 DUNSTON, E. E. Skyland develops cost saver in peach pitter. West. Canner & Packer 41(2): 51, 53, 55. Feb. 1949. 286.83 W522

30804 EDGECOMBE, S. W. To prevent darkening and off flavor of apple juice. Quick Frozen Foods 11(6): 53, 84. Jan. 1949. 389.8 Q4

30805 EICKELBERG, E. W. Improved cream style corn. Canner 108(5): 10-12. Jan. 29, 1949. 286.83 C16

30806 EVANS, R. J., and ST. JOHN, J. L. Influence of autoclaving dry peas on some properties of the proteins. Cereal Chem. 25: 377-385. Ref. Nov. 1948. 59.8 C33

30807 FARRAR, J. Vacuum precooling for dry pack lettuce. West. Grower & Shipper 20(2): 9. Jan. 1949. 280.38 W52

30808 FEASTER, J. F., and others. Effect of blanching time on vitamin retention in canned peas. Canner 108(1): 27-30. Jan. 1, 1949. 286.83 C16

A. E. Mudra, M. Ives, and M. D. Tompkins, joint authors.

30809 FONDARD, L. Les germoirs coopératifs à pommes de terre. Bouches du Rhone Agr. 22(993): 9-10; (994): 2. (Cont.) Jan. 1, 15, 1949. 14 B662

30810 FOURNET, E. Jellies, jams, preserves. La. Agr. Col. Ext. B. 12, 31 p. Nov. 1948. 275.29 L93B4

30811 GERHARDT, F., and NORDMANN, C. Grundlagen der obstaufbewahrung unter besonderer berücksichtigung der erdmietenlagerung. Stuttgart, Ulmer, 1948. 21 p. 464.5 G31

Chiefly on apples.

30812 GILBERT, R. H. Australian dried currants, sultanas and lexias. Australia to-day 1949: 107. Oct. 20, 1948. 280.8 Au72

30813 GORDON, L. E., BOLLMAN, M. C., and LAMBERT, M. E. Trimming losses in large-scale preparation of fresh vegetables. Amer. Dietet. Assoc. J. 25: 142, 144, 146, 148, 150, 152, 154. Ref. Feb. 1949. 389.8 Am34

30814 HACHMANN, W. Neuzzeitliche verarbeitung von hülsenfrüchten. Getreide, Mehl u. Brot 2: 207-215. Dec. 1948. 298.8 G33

30815 HAMMOND, A. E. Europe's largest quick-freezing plant: tour of a Great Yarmouth factory. Fruit, Flower & Veg. Trades' J. 94: 888-889. Dec. 25, 1948. 80 F946

30816 HARRISS, R. W. For quick freezing—the best soft fruit varieties. Fruit-Grower 106: 763-764. Dec. 16, 1948. 80 F941

30817 HEUBERGER, J. W., MUNGER, G. D., and POULOS, P. L. Post-harvest chemical dip treatment of peaches for control of brown-rot disease in the package. (Abs.) Phytopathology 39: 9. Jan. 1949. 464.8 P56

30818 HOLGATE, K., and KERTESZ, Z. I. The comparative usefulness of various calcium salts in the firming of canned and frozen sliced apples. Fruit Prod. J. & Amer. Food Mfr. 28(2): 37-38, 42. Oct. 1948. 389.8 F94

30819 HOPKINS, E. F., and LOUCKS, K. W. A curing procedure for the reduction of mold decay in citrus fruits. Fla. Agr. Expt. Sta. B. 450, 26 p. Ref. Oct. 1948. 100 F66S

30820 JOHNSON, L. Producing apples at a profit; lower grade apples make additional income. Utah Farmer 68(9): 10-11. Dec. 15, 1948. 6 D45  
Processing and marketing apple by-products.

30821 JOSLYN, M. A. Use of liquid sugars in freezing of apricots, peaches and nectarines. Food Technol. 3(1): 8-14. Ref. Jan. 1949. 389.8 F7398

30822 KARBE, E. Die herstellung von saft und süßmost. Neue Mitt. f. die Landw. 3: 232. Aug. 5, 1948. 18 N39

30823 KEFFORD, J. F. Modern apple products. Fruit World & Mkt. Grower 49(11): 15. Nov. 5, 1948. 80 F948

30824 KIEFER, J. E. New process removes sugar from potatoes. Benefits, savings and possibilities far reaching, potato chips improved. Potato Chipper 8(7): 12, 14, 16. Jan. 1949. 75.8 P844

30825 LEE, F. A., and GORTNER, W. A. Effect of freezing rate on vegetables. Refrig. Engin. 57: 148-151, 184-185. Ref. Feb. 1949. 295.9 Am32J



- 30826 LE RICHE, F. J. H. The dehydration of guava varieties in South Africa. *So. Africa. Dept. Agr. Sci. B.* 268, 14 p. 1947. 24 So84S
- 30827 LINDGREN, D. L., BLISS, D. E., and BARNES, D. F. Insect infestation and fungus spoilage of dates—their relation and control. *Date Growers' Inst. Rpt.* (1948) 25: 12-17. 1949. 81 D26
- 30828 LÜTHI, H. Die süßmosterei in Dänemark und Schweden. *Schweiz. Z. f. Obst- u. Weinbau* 57: 417-419, 429-437. Nov. 20-Dec. 4, 1948. 80 Sch9
- 30829 LYNCH, J. L. The canning of fruit and vegetables. *Fruit World & Mkt. Grower* 49(11): 16. Nov. 5, 1948. 80 F948
- 30830 MITCHELL, T. Refrigerating cycle replaces steam in concentrating fruit juices. *Bottler & Packer* 23(1): xvii-xviii. Jan. 1949. 390.8 B65
- 30831 NATIONAL CANNERS ASSOCIATION. DIVISION OF STATISTICS. Pumpkin & squash pack, 1948. 1949. 2 p. 389.9 N2146Pu
- 30832 OESTERLE, E. Purdue tests prove ice is best for fresh vegetable displays. *Ice & Refrig.* 116(2): 47-51. Feb. 1949. 295.8 Ic2
- 30833 RENTSCHLER, H., and BRAUN, F. Eine vereinfachte bestimmung der freien schwefligen säure in süßen und vergorenen getränken mit dem schwefligsäure-messer. *Schweiz. Z. f. Obst- u. Weinbau* 57: 456-458. Dec. 18, 1948. 80 Sch9
- 30834 RUTLEDGE, J. P. Putting the squeeze on the love apple; the story of tomato juice. *Midwest Engin.* 1(6): 3-5. Feb. 1949. 290.8 M58
- 30835 RYALL, A. L., and GODFREY, G. H. Dip and gas treatments for the reduction of post-harvest decay in Texas lemons. *Phytopathology* 38: 1014-1018. Dec. 1948. 464.8 P56
- 30836 RYGG, G. L. Storage humidity for dates. *Date Growers' Inst. Rpt.* (1948) 25: 34-35. 1949. 81 D26
- 30837 SAMUELS, C., and WIEGAND, E. H. Radio frequency blanching of cut corn and freestone peaches. *Fruit Prod. J. & Amer. Food Mfr.* 28(2): 43-44, 61. Oct. 1948. 389.8 F94
- 30838 SCHWILCH, W. Süßmost im steinzeuggefäß. *Schweiz. Z. f. Obst- u. Weinbau* 57: 416-417. Nov. 20, 1948. 80 Sch9
- 30839 SHARVELLE, E. G., and BURKHOLDER, C. L. The effect of low temperature exposure on the development of peach brown rot in common storage. (Abs.) *Phytopathology* 39: 22. Jan. 1949. 464.8 P56
- 30840 SHCHEKOLDINA, E. S., PROKOF'EVA, E. D., and ANDREEVA, E. D. Organizatsiia laboratorii i provedenie khimiko-tehnicheskogo kontroliia na plodo-ovoshchnykh predpriiatiakh [Organization of laboratories and the exercise of chemico-technical control at the fruit and vegetable enterprises]. Moskva, 1947. 135 p. 389.3 Sh2
- 30841 SILVEIRA, A. H. DA. Manufacture of cassava products on the farm. (In Portuguese.) *Rev. dos Criadores* 19(10): 122-123. Oct. 1948. 43.8 R32
- 30842 SMOCK, R. M., and MATTUS, G. E. Does climate affect the storage life of apples. *Farm Res.* [N. Y. State Sta.] 15: 1. Jan. 1949. 100 N48A
- 30843 STOUT, G. J. Freezing fruits and vegetables on Florida farms. *Fla. Agr. Expt. Sta. B.* 441, 30 p. Feb. 1948. 100 F66S
- 30844 TRESSLER, D. K. New "instant" mixes contain dehydrated fruits. *Food Indus.* 21: 97. Jan. 1949. 389.8 F737
- 30845 ULRICH, R. Recherches expérimentales sur la réfrigération des fruits. *Fruits d'Outre Mer* 3: 404-409. Dec. 1948. 80 F9492
- 30846 U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Preparation of sulfured and maraschino cherries. *U. S. Bur. Agr. and Indus. Chem. CA-6*, 6 p. Ref. Dec. 1948. 1.932 A2C42
- 30847 VEGETABLE dehydration in Cornwall. *Food Manufacture* 24(1): 5-8. Jan. 1, 1949. 389.8 F736
- 30848 VIGUERA LOBO, J. M., and CASTELLOTE FERRER, J. Perdida de vitamina C en jugos de diversos tipos de naranjas durante su almacenamiento. *Soc. Españ. de Fís. y Quím. An. Ser. B. Quím.* 44: 493-500. Ref. Apr. 1948. 385 So18
- 30849 WASHINGTON STATE COLLEGE. EXTENSION SERV. On the road to quality foods via canning and freezing fruit and vegetables. *Wash. State Col. Ext. C.* 126, 12 p.-folder. Oct. 1948. 275.29 W27C
- 30850 WOODROOF, J. G., and CECIL, S. R. Sweet potato chips. *Fruit Prod. J. & Amer. Food Mfr.* 28: 139-140. Jan. 1949. 389.8 F94
- 30851 WRIGHT, R. C., and WHITEMAN, T. M. The comparative chipping qualities of 33 varieties of potatoes. *Potato Chipper* 8(6): 40, 42. Dec. 1948. 95.8 P844
- 30852 XANDER, P. A. Problems of the potato chip industry. *Potato Chipper* 8(7): 22, 24, 28. Jan. 1949. 75.8 P844

## Statistics

- 30853 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Vegetables grown for human consumption: Australia, 1947-48 season. Canberra, 1948? 12 p. 271 Au72Av
- 30854 CALIFORNIA. AGRICULTURAL EXPERIMENT STATION. Asparagus situation in California, 1947; statistical supplement, by S. Hoos and H. F. Phelps. Berkeley, 1947. 40 p. 281.391 C122
- 30855 CONNECTICUT. DEPT. OF FARMS AND MARKETS. Connecticut vegetable acreages 1946-1947-1948. Conn. Dept. Farms and Mkt. B. 102, 12 p. Dec. 1948. 2 C76B
- 30856 FORD, K. E. Georgia sweet potato production, disposition, and price. *Ga. Agr. Expt. Sta. B.* 258, 20 p. Nov. 1948. 100 G29S
- 30857 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF HORTICULTURE. Tree census—1944. *Rev. Mktg. Agr. Econ.* 16: 458-485. Sept. 1948. 286.8 N47M
- 30858 NEW SOUTH WALES. IRRIGATION RESEARCH EXTENSION COMMITTEE. M.I.A. fruit tree and grape vine census, 1947. 1948. 39 p. 271.1 Ir7
- 30859 PALMER, C. D., SCHLOTZHAUER, E. O., and KIESLER, P. F. Fruits and nuts; bearing acreage 1919-1946. *U. S. Bur. Agr. Econ. CS-32*, 39 p. Jan. 1949. 1.9422 A8C732
- 30860 PRIEN, H. G. Die pflanzkartoffelerzeugung im jahre 1947. *Neue Mitt. f. die Landw.* 3: 52-53. Feb. 21, 1948. 18 N39
- 30861 QUEBEC. BUR. DES STATISTIQUES. Récolte de bleuets, 1948. Dec. 1948. 2 p. 253.8 St2R
- 30862 RASMUSSEN, M. P. Consumer purchases of fresh vegetables at retail (prewar, wartime, and postwar). *N. Y. (Cornell) Agr. Expt. Sta. B.* 849, 51 p. Dec. 1948. 100 N48C
- 30863 SELTZER, R. E. Production, shipments, markets, & prices of Desert grapefruit. *Ariz. Agr. Expt. Sta. Mimeog. Rpt.* 83, 49 p. Dec. 1947. 100 Ar4M
- 30864 TAYLOR, H. M. The 1948 apple and peach tree survey. *Va. Fruit* 37: 129-131. Jan. 1949. 81 V81B
- 30865 U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks as of January 1, 1949, with comparisons. Washington, 1949. 4 p. 1.941 S8P85

## GRAIN AND GRAIN PRODUCTS

- 30866 ALBERTA WHEAT POOL. Annual report 1947-48. Calgary, 1948. 101 p. 280.39 AL12
- 30867 ALTROGGE, L. Neue erfahrungen bei der maisvorbereitung und verarbeitung in getreidemöhlen. *Getreide, Mehl u. Brot* 2: 199-203. Dec. 1948. 298.8 G33
- 30868 AMOS, A. J. The milling industry; progress in 1948. *Food Manufacture* 24(1): 9-14. Jan. 1, 1949. 389.8 F736
- 30869 BATHGATE, H. N. World wheat situation. *Pub. Ledger* 59501: 1. Jan. 27, 1949. 286.8 L84
- 30870 BATTISTELLI, E. The perplexity of grain producers. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 192-193. Oct. 30, 1948. 16 C72
- 30871 BAWDEN, R. F., and ARTIS, W. G. A comparison of ficin and papain in the estimation of the beta-amylase of barley. *Amer. Soc. Brewing Chem. Proc. Ann. Mtg.* 1948: 1-11. 390.9 Am321
- Discussion, p. 11-12.



- 30872 BEHAR ALCAHE, M. Algunas consideraciones sobre los ácidos aminados y contenido de éstos en las proteínas del maíz. Guatemala, 1948. 47 p. 386.2 B392
- Tesis (farmacéutico químico) - Univ. de San Carlos, Guatemala.
- 30873 BESSON, R. Pour un juste prix du blé [France]. *Molsson* 4(146): 1. June 25, 1948. 14 M72
- 30874 BISHOP, W. B. S. The physical testing of flour. (Abs.) *Austral. Chem. Inst. J. & Proc.* 15: 369. Nov. 1948. 385 Au72
- 30875 BÖH, J. Mehlpreise gegen verbrauch. *Ernährungsdienst* 3(67): 3. Dec. 16, 1948. 389.8 Er62
- 30876 BORASIO, L. Proposed classification and commercial utilization of the most important byproducts of rice manufacture. (In Italian.) *Alimenti* 4: 214-217. (Cont.) Sept./Oct. 1948. 389.8 AL44
- 30877 BOWDEN, R. B. New patterns in an old trade. *Westerns* 10(5): 3-8. Jan. 1949. 389.78 W522
- The grain industry.
- 30878 BREESE, M. H. The storage of maize and pulse crops. II. *Nyasaland Agr. Q. J.* 7: 77-83. Oct. 1948. 24 N983
- 30879 BRENNER, S., DUNLOP, S. G., and WODICKA, V. O. Effect of fortification of canned bread on stability. *Cereal Chem.* 25: 367-376. Ref. Nov. 1948. 59.8 C33
- 30880 CABRAL, A. Corn; regional bread and measure of production and wages in the Azores. (In Portuguese.) *Azores. Comis. Reguladora dos Cereais.* B. 8: 25-52. 2. sem. 1948. 15 Az6
- 30881 CANADA. BOARD OF GRAIN COMMISSIONERS. GRAIN RESEARCH LABORATORY. Protein content of hard red spring wheat. Winnipeg, 1948. map. 59.9 C161Pr
- 30882 CENTRALE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOEK. VOEDINGSORGANISATIE. BROODGRAAN- EN BROOD-COMMISSIE. Tarwemaalfracties onderzoeken over chemische samenstelling en eigenschappen van een reeks maalproducten van tarwe, uitgevoerd in de jaren 1943-1946 [Studies on the chemical composition and properties of a series of milling fractions of Dutch homegrown wheat and of American wheat carried out during the years 1943-1946]. s'Gravenhage, 1947. 66 p. 389 C334
- English summary.
- 30883 CLARK, R. J. Every bread flour is a problem flour. *Northwest. Miller* 236(5): 48, 50, 54. Nov. 2, 1948. 298.8 N81
- 30884 CLEVELAND, F. C., and KERR, R. W. Osmotic pressure studies on corn amylose. *Amer. Chem. Soc. J.* 71: 16-20. Jan. 1949. 381 Am33J
- 30885 CLOUGH, M. Why grain prices fall below loan level. *Agr. Situation* 33: 11. Jan. 1949. 1 Ec7Ag
- 30886 CORN INDUSTRIES RESEARCH FOUNDATION. The story of corn and its products. New York, 1948. 40 p. 388 C81S
- 30887 COYLE, B. W., and HORRELL, E. Oregon's grain and hay crops, 1909-1947. *Oreg. State Col. Ext. B.* 692, 61 p. Aug. 1948. 275.29 Or32B
- Statistical data.
- 30888 CSÁKY, T. Z. Improving the biological value of bread made with corn (maize) flour, by the addition of extracted sunflower meal. *Arch. Biol. Hungar. (Ser. 2)* 17: 319-329. Ref. 1947. 442.9 M27
- 30889 DICKSON, A. D., SHANDS, H. L., and BURKHART, B. A. Influence of growth-regulating chemicals on the malting of barley and the composition of malt. *Cereal Chem.* 26: 13-23. Ref. Jan. 1949. 59.8 C33
- 30890 DIRECTORY of companies; Canadian, U. S. and British firms supplying milling and feed industry in this country. *Milling & Feed* 30(1): 58-60, 63-64. Jan. 1949. 298.8 C162
- 30891 ELDER, A. L. New uses for co-products; by-products of wet-milling plants. *Amer. Miller & Processor* 77(1): 100-101. (Abs.) Jan. 1949. 298.8 Am32
- 30892 EVANS, S., & COMPANY, LTD. Wheat yield map, No. 25. 1948. 1 p. 253 Ev1
- 30893 FARMERS CO-OPERATIVE GRAIN DEALERS ASSOCIATION OF OKLAHOMA. 1948 directory. 1948? 78 p. 225 F226
- 30894 FARMERS ELEVATOR ASSOCIATION OF MINNESOTA. 1947 year book; a directory of licensed country elevators in Minnesota. 1947. 160 p. 225 M66
- 30895 FINNEY, K. F., and others. Comparison of certain chemical, physical, and baking properties of commercial, Buhler, and Hobart-milled flours. *Cereal Chem.* 26: 72-80. Jan. 1949. 59.8 C33
- H. K. Heizer, J. A. Shellenberger, C. E. Bode, and W. T. Yamazaki, joint authors.
- 30896 FINNIE, D. N. Bulk flour transportation by flour car perfected. *Bakers' Helper* 91(1135): 63, 86. Jan. 22, 1949. 389.8 B17
- 30897 FRECK, S. G. Grain elevator gets automatic CO<sub>2</sub> system for 'round-the-clock fire protection. *Food Indus.* 21: 192. Feb. 1949. 389.8 F737
- 30898 FREY, E. Empfindlicher markt. *Ernährungsdienst* 3(68): 2. Dec. 20, 1948. 389.8 Er62
- German grain situation.
- 30899 GABBERT, H. S. America's first pneumatic mill. *Amer. Miller & Processor* 77(1): 127-128, 132, 134, 146. Jan. 1949. 298.8 Am32
- 30900 GEHLE, H. Reiseeindrücke auf dem müllereigebiet in der Schweiz, in Schweden und in England. *Getreide, Mehl u. Brot.* 3(1/2): 7-10. Jan. 1949. 298.8 G33
- 30901 GINZBURG, M. E. Krupânœ proizvodstvo [Groats production]. Moskva, Gos. Izd-vo Tekhn. i Ekon. Lit-ry po Voprosam Zagotovok, 1948. 279 p. 298 G43
- 30902 GRAIN handling and flour milling machinery. *Lubrication* 35: 13-24. Feb. 1949. 307.8 L96
- 30903 GRAUMANN, H. Verfahren zur leistungs- und passagenkontrolle in der getreidemüllerei. *Getreide, Mehl u. Brot* 2: 204-207. Dec. 1948. 298.8 G33
- 30904 GROGAN, F. O. Price stabilisation in the Australian wheat industry. *Austral. Q.* 20(4): 25-28. Dec. 1948. 280.8 Au7
- 30905 GROSS, F. C. Seed Wheat Competitions, 1948. *So. Austral. Dept. Agr. J.* 52: 130-132. Oct. 1948. 23 So84
- 30906 GUILD, M. D. New farmers' elevator speeds grain movement. *Hoosier Farmer* 34(1): 32-33. Jan. 1949. 280.82 H76
- 30907 GUSLER, G. What will grain prices do? *Mont. Farmer-Stockman* 36(11): 13, 14. Feb. 1, 1949. 6 M764
- 30908 HACHMANN, W. Automatische Kleinmühlen. *Mühlen-Ztg.* 2: 231-233. Dec. 18, 1948. 298.8 M893
- 30909 HALLÉ, P. Les batailles de demain: "Le blé." *Libération Paysanne* 5(196): 6. Dec. 30, 1948. 14 L61
- 30910 HALLÉ, P. Le problème mondial actuel des céréales. *Soc. Sci. d'Hyg. Aliment. B.* 36: 191-210. 1948. 389.9 So1B
- 30911 HARTARD EBERT, M. Siembras y cosechas de arroz. *Campesino [Santiago]* 80(12): 27. Dec. 1948. 9.3 So12
- Chile.
- 30912 HARTWELL, A. M. How the grain market operates. *Com. West* 97(3): 29-30. Jan. 15, 1949. 286.8 C733
- 30913 HYPPOLA, K. Qualität und preis einheimischen getreides, von den handelsmühlen sowie von den eigenen lagern des staatlichen getreidevorrats aufgenommen, in den jahren 1943, 1944 und 1945 erzeugt. (In Finnish.) *Suomen Maataloustiet. Seura. Julkaisuja* 68: 111-154. 1948. 20 Su7
- German summary.
- 30914 INSTITUTO RIO GRANDENSE DO ARROZ. Anuário estatístico do arroz [statistical yearbook for rice], 3d, 1946/47. 1948. 116 p. 255.3 In75
- 30915 ISELY, C. C. "Grass roots" report on Kansas wheat. *Feedstuffs* 20(50): 10-11. Dec. 11, 1948. 286.81 F322
- 30916 KARON, M. L., and ADAMS, M. E. Hygroscopic equilibrium of rice and rice fractions. *Cereal Chem.* 26: 1-12. Jan. 1949. 59.8 C33
- 30917 KNEEN, E., and SPOERL, J. M. The limit-dextrinase activity of barley malts. *Amer. Soc. Brewing Chem. Proc. Ann. Mtg.* 1948: 20-26. Ref. 390.9 Am321
- Discussion, p. 26-27.
- 30918 KNOLL, C. H. Another year—another step forward for Clay County corn growers. *Hoosier Banker* 33(1): 46-47. Jan. 1949. 284.8 H76
- Report of contest.
- 30919 KRAMER, H. A. Drying combined rice. *Rice J.* 51(12): 16-17, 31-32. Ref. Dec. 1948. 59.8 R36



- 30920 LATENDRESS, H. M. Commercial rice production in Rio Grande do Sul. Clark U. Abs. Diss and Theses 1948: 74-76. 241.8 C54
- 30921 LAUMONT, P. État actuel et avenir de la culture des céréales en Algérie. Cahiers des Ingén. Agron. 3(39/40): 22-28. Sept./Oct. 1948. 14 C112
- 30922 LEMENSE, E. H., and others. Grain alcohol fermentations. Indus. & Engin. Chem. 41(1): 100-103. Jan. 1949. 381 J825
- V. E. Sohns, J. Corman, R. H. Blom, J. M. Van Lanen, and A. F. Langlykke, joint authors.
- 30923 LOZIER, K. D. Effect of containers on the aging of flour. Bakers Weekly 141(7): 51-52. Feb. 14, 1949. 389.8 B172
- 30924 MADRAS. BOARD OF REVENUE. Statistics—crop—paddy—1947-48—third or final forecast report. Madras, 1948. 1 p. 59.9 In23
- 30925 MAURY, L. Le blé dans le monde fin 1948. Monit. Agr. 2(52): 10. Jan. 9, 1949. 14 M744
- 30926 MONTEVERDE, M. A. Factores que deben tenerse en cuenta para la conservación del trigo. Campo y Suelo Argentino 32(386): 21. Dec. 1948. 9 C15
- 30927 MOORE, H., and MOORE, A. S. Seed crushing compound & provender milling. Liverpool, Northern Publishing Co., 1948? 218 p. 298 M78
- 30928 MOUNFIELD, J. D. Test baking. Liverpool, Northern P. Co., 1948. 32 p. 389.2 M86
- Includes wheat baking quality.
- 30929 MURRAY, J. E. Distillers are fussy about barley. Farming News & North Brit. Agr. 100(54): 9. Dec. 31, 1948. 10 N82
- 30930 NARASINGA RAO, M. B. V. Rice deficit in Madras and its solution. Madras Agr. J. 35: 259-262. Oct. 1948. 22 M262
- 30931 NATIONAL JOINT INDUSTRIAL COUNCIL FOR THE FLOUR MILLING INDUSTRY. Twenty-ninth annual report, 1947-48. London, 1949. 59 p. 298.9 N21
- 30932 OGILVIE, J. C. Scandinavian milling. Amer. Miller & Processor 77(1): 92, 96-98. Jan. 1949. 298.8 Am32
- 30933 OLSON, W. J., LOWRY, M. T., and DICKSON, A. D. The effect of sodium chloride in the extraction of malt at 20° and 30° C on alpha-amylase and diastatic power values. Amer. Soc. Brewing Chem. Proc. Ann. Mtg. 1948: 13-18. Ref. 390.9 Am321
- Discussion, p. 18-19.
- 30934 PAGANI, L. The various pool systems in the picture of our grain problem. (In Italian.) Agr. delle Venezie 2: 367-383. May/June 1948. 16 Ag826
- 30935 PALMER, C. B. Wheat. Westralian Farmers' Co-op Gaz. 14(363): 309, 311, 313-314. Nov. 1948. 280.28 W522
- 30936 PARKER, E. B. Production of Washington unifine flour. Assoc. Oper. Millers. B. 1949: 1720-1722. Jan. 1949. 298.9 As7
- 30937 PARSONS, F. L. Supports may promote record wheat acreage. Fed. Reserve Bank of Minneapolis. Monthly Rev. 9: 636-637, 642-644. Dec. 30, 1948. 284.8 F31M
- 30938 PELSSENKE, P. 18 Jahre schrotgärtheorie eine schnellmethode zur bestimmung der kleberqualität bei weizen. Getreide, Mehl u. Brot 2: 119-127. Aug. 1948. 298.8 G33
- 30939 PETERSON, W. L. Controlled break extraction. Assoc. Oper. Millers. B. 1949: 1722-1723. Jan. 1949. 298.9 As7
- Also in Northwest. Miller Milling Prod. Sect. 237(6): 6a-7a. Feb. 8, 1949. 298.8 N81
- 30940 POOL, H. Ueber trocknung von teigwaren. Getreide, Mehl u. Brot 2: 127-129. Aug. 1948. 298.8 G33
- 30941 PRÜFERT, A. Wende in der getreideablieferung [Germany]. Ernährungsdienst 3(67): 1. Dec. 16, 1948. 389.8 Er62
- 30942 RICE MILLERS' ASSOCIATION. Rice production in the United States, 1948. New Orleans, La., 1948. 4 p. 59.9 R362R
- 30943 RONCHI, V. Cereals in the agricultural and food economy of Italy. (In Italian.) B. dell'Agr. 82(19): 1-3. Oct. 1, 1948. 16 B87
- 30944 SANFORD, H. E. Government and the grain trade. St. Louis, Grain & Feed Dealers-Natl. Assoc., 1948. 16 p. 286.359 Sa5
- Also in Northwest. Miller 236(3): 24-25, 28-29, 32. Oct. 19, 1948. 298.8 N81; and in Grain & Feed Rev. 38(3): 14, 16, 63-64. Nov. 1948. 280.28 C78
- 30945 SASKATCHEWAN CO-OPERATIVE PRODUCERS LIMITED. Annual report, 24, 1947/48. Regina, 1948. 99 p. 59.9 Sa73
- 30946 SCHABEN, L. J. Rye—the world's source of daily bread. Northwest. Miller 236(5): 26-27, 30-31, 74, 78. Nov. 2, 1948. 298.8 N81
- 30947 SCHAFFNER, L. W. Barley marketing in North Dakota. N. Dak. Agr. Expt. Sta. B. 352, 24 p. June 1948. 100 N813
- 30948 SCHORK, H. Die frachten bei mehl und mais-mehl. Mühlen-Ztg. 2: 236-237. Dec. 18, 1948. 298.8 M893
- 30949 SCHRENK, W. G., ANDREWS, A. C., and KING, H. H. Heat of hydration of certain wheat flours and gluten. Cereal Chem. 26: 51-59. Ref. Jan. 1949. 59.8 C33
- 30950 SCHULERUD, A. The contents of phytic acid P in Norwegian flour and bread types. II. Stockholm, Norstedt, 1947. 15 p. (Acta Physiologica Scandinavica. v. 14, fasc. 1-2. Excerptum) 387.1 Sch862
- 30951 SHEDD, C. K. Progress in methods of drying corn. Farm Electrification 3(1): 7-13. Jan./Feb. 1949. 335.8 F224
- 30952 SHELLENBERGER, J. A. The grain storage program in Costa Rica. Northwest. Miller Milling Prod. Sect. 237(6): 1a, 10a-11a. Feb. 8, 1949. 298.8 N81
- 30953 SHELLENBERGER, J. A., and SCHRENK, W. G. Mineral analysis of Peruvian wheat. Cereal Chem. 25: 407-413. Ref. Nov. 1948. 59.8 C33
- 30954 SILVA, A. H. DA. Industrialization of corn on the farm. (In Portuguese.) Campo [Rio de Janeiro] 19 (225/226): 10. Sept./Oct. 1948. 9.2 C15
- 30955 SMURR, E. Observations on wheat staining. Northwest. Miller (Milling Prod. Sect.) 235(11): 8a-9a. Sept. 14, 1948. 298.8 N81
- To detect hidden infestation.
- 30956 SOUZA, A. O. DE. Wheat: a powerful aid to the industry of Rio Grande do Sul. (In Portuguese.) Lav. Arroz. 2(22): 3-6. Oct. 1948. 59.8 L39
- 30957 STETTER, H. 10 minuten chemie—schmerzlos und allgemeinverständlich. Mühlen-Ztg. 3(1): 9-10. Jan. 1, 1949. 298.8 M893
- 30958 SULLIVAN, B. The mechanism of the oxidation and reduction of flour. Cereal Chem. 25(6, sup.): 16-31. Ref. Nov. 1948. 59.8 C33
- 30959 TRIOEN. La détermination électrique de l'humidité du grain. Petit J. du Brasseur 56: 980-981. Dec. 24, 1948. 390.8 P44
- 30960 UNITED PROVINCES. DEPT. OF AGRICULTURE. Final forecast of the barley crop for the year 1947-48. Lucknow, 1948. 2 p. 59.9 Un33Fb
- 30961 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Thanksgiving miracle, by T. Noone, M. Speece, D. Lerch, and V. Tatum. Washington? 1948. 11 p. 1.914 R2T23
- Chiefly corn and turkeys.
- 30962 VIEIRA, L. M. Progress of the national wheat economy. (In Portuguese.) Rev. dos Criadores 19(12): 51-52. Dec. 1948. 43.8 R32
- Brazil.
- 30963 VOGEL, H. Getreidekeime und keimöle. Basel, Wepf, 1948. 124 p. 389 V862
- 30964 WHEAT and its moulds. 1. Food [London] 18(209): 54-55. Feb. 1949. 389.8 F738
- 30965 WITT, P. R., JR., and OHLE, R. L. Observations of enzymatic activity relative to end fermentation of malt-converted corn mash. Amer. Soc. Brewing Chem. Proc. Ann. Mtg. 1948: 28-35. 390.9 Am321
- 30966 YEAMAN, A. F. Winds that 'shake' the barley. Farming News & North Brit. Agr. 100(52): 5. Dec. 17, 1948. 10 N82
- Quality for malting.
- 30967 ZELENY, L. Fat acidity of grain as an index of soundness and risk of storage. Northwest. Miller, Milling Prod. Sect. 237(2): 1a, 22a-26a. Jan. 11, 1949. 298.8 N81
- 30968 ZETTERBERG, O. The winter acreage diminished by 16 per cent; some results from the acreage census October 1948. (In Swedish.) Lantmannen 33: 54-55. Jan. 22, 1949. 11 L234

## HONEY AND BEESWAX

- 30969 AGUILERA, M. C. Comentarios sobre el consumo de miel en el país. Campo y Suelo Argentino 32(385): 51. Nov. 1948. 9 C15



30970 CLARKE, W. W. Use farm shows to sell honey through attractive displays. *Pa. Beekeeper* 23(4): 6-7. Dec. 1948. 424.8 P38

30971 CLAY, H. J. Marketing the 1948 crop of honey. *Gleanings Bee Cult.* 77: 73-75, 78. Feb. 1949. 424.8 G47

30972 CLAY, H. J. More about "parity" [for honey]. *Beekeepers' Mag.* 11(12): 13-14. Dec. 1948. 424.8 M58

30973 FORESTI, C. Inspection of honey destined for direct consumption. (In Italian.) *Ann. d'Ig. [Rome]* 58: 105-118. Mar./Apr. 1948. 449.8 An72

30974 GARDNER, L. C. Hold that line! *Beekeepers' Mag.* 11(11): 21-22. Nov. 1948. 424.8 M58  
Honey prices.

30975 GARDNER, L. C. Watch it, brother! *Beekeepers' Mag.* 11(12): 22. Dec. 1948. 424.8 M58  
Honey marketing.

30976 GODIN, L. F. Nouveau cri dans le désert? *Gaz. Apic.* 502: 226-229. Sept. 1948. 424.8 G25  
Honey as substitute for sugar in France.

30977 GODIN, L. F. Sur la parité des prix du miel et du beurre. *Gaz. Apic.* 503: 267-270. Oct. 1948. 424.8 G25

30978 HAMMER, O., JØRGENSEN, E. G., and MIKKELSEN, V. M. Studies on the contents of pollen of Danish honey samples. (In Danish.) *Tidsskr. for Planteavl* 52: 293-350. 1948. 11 T439  
English summary.

30979 LEHMANN, A. Die honigkontrolle des V[ereins] D[eutsch]-S[chweizerischer] B[ienenfreunde] im Jahre 1948. *Schweiz. Bienen Ztg.* 71: 499-501. Dec. 1948. 424.8 Sch9

30980 LIANDIER, F. Prix du miel aux États-Unis et au Canada. *Apiculteur* 92: 292-293. Nov. 1948. 424.8 Ap3

30981 MANLEY, W. B. Scottish heather honey. *Scot. Beekeeper* 24: 203-204. Dec. 1948. 424.8 Sco8

30982 RUIZ, J. R. Prensa económica para la elaboración de cera estampada. *Campo y Suelo Argentino* 32(385): 44-45. Nov. 1948. 9 C15

30983 SPILLER, J. Church beeswax candles. *Beekeeping* 14: 252-253. Dec. 1948. 424.8 B3991

30984 U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey and beeswax production, 1948. Washington, 1949. 8 p. 1.941 H8H75  
Statistics.

#### LIVESTOCK AND LIVESTOCK PRODUCTS

30985 ADAIR, W. The meat shortage—why not make home-expansion real? *Farming News & North Brit.* *Agr.* 100(53): 2-3. Dec. 24, 1948. 10 N82  
In Great Britain.

30986 AGENDA des éleveurs, 42d, 1949. 1948? 160 p. 49 Ag3  
France.

30987 ALWYN-SCHMIDT, W. Fur farmers should have a prosperous 1949. *Black Fox Mag.* 32(9): 17, 35-37. Jan. 1949. 410 B56

30988 ASOCIACIÓN RURAL DEL URUGUAY. Sobre el problema de la carne. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 521, i. e. 251: 5, 4. Dec. 30, 1948. 9.9 G15B

30989 BEHNKE, H. Prospects of the swine industry in Denmark. (In Danish.) *Andelsbladet* 50: 15-16. Jan. 6, 1949. 280.28 An2

30990 BÉRARD, J., and GOBILLIARD, J. Cuirs et peaux. Paris, Presses Universitaires de France, 1947. 127 p. (Que Sais-je? Le Point des Connaissances Actuelles. 258) 303 B452

30991 BLYTH, J. From hobby to industry. *All-Pets Mag.* 20: 65, 68. Jan. 1949. 48.8 AL5  
Rabbit breeding.

30992 BLYTH, J. What is wrong with the rabbit industry? *Small Stock Mag.* 33(2): 17. Feb. 1949. 48.8 P442

30993 BRAGER-LARSEN. Relationship between industry and Government. *Fur Trade J. Canada* 26(4): 80, 81, 82. Dec. 1948. 410 F965  
Fur industry in Norway.

30994 BRANNAN, C. F. Agriculture's future lies with livestock. *Country Gent.* 119: 28. Jan. 1949. 6 C833

30995 BRAUN, O. Die verkäuferin im fleischerge-  
werbe. Stuttgart, Matthaes, 1948. 71 p. 50 B733

30996 BRIGGS, F. A. Does it take hard times to promote dairying? *Farm & Ranch* 68: 6-7. Jan. 1949. 6 T31

Dairy industry in the Southwestern States.

30997 BURMEISTER, C. A. A look ahead in the livestock industry. *Rec. Stockman, Ann. Ed.* 59(52): 44-45, 221, 222. Dec. 23, 1948. 49 D43

30998 BUTLER, K. D. The value of animal agriculture. *Carolina Co-op.* 26(12): 16-17, 30-31. Dec. 1948. 72.8 N81

30999 CANESTRARI, R. Expand rabbit production. (In Italian.) *Mezzogiorno Agr.* 4(48): 3. Dec. 12, 1948. 16 M57

31000 CARNES, N. K. Livestock picture: 1949 outlook good for producers. *Com. West* 97(3): 27-28, 56. Jan. 15, 1949. 286.8 C733

31001 CARVALHO, D. DE. The [Brazilian] Government's livestock policy. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 3(29): 5-6, 20. Nov. 1948. 280.28 C7856

31002 CHALLEY, C. J. Cooperative swine programs are educational. *Agr. Ed. Mag.* 21: 151. Jan. 1949. 275.8 Ag8

31003 CLELAND, S. B. 1949 outlook; livestock and feed. *Minn. U. Agr. Ext. Pam.* 162, 6 p. Dec. 1948. 275.29 M66P

31004 CLOUSTON, V. Newfoundland; relationship between [fur farming] industry and Government. *Fur Trade J. Canada* 26(4): 82. (To be cont.) Dec. 1948. 410 F965

31005 COE, W. S. Cooperative livestock projects. *Agr. Ed. Mag.* 21: 151. Jan. 1949. 275.8 Ag8

31006 COFFEY, J. S. Hail '49. *Berkshire News* 14 (3): 6, 60-61. Jan. 1949. 46.8 B454  
Swine industry.

31007 CONWAY, H. M. Meat demand lags while distributors retain wide price margins. *Natl. Live Stock Prod.* 27(5): 8. Feb. 1949. 280.38 N21

31008 COPPOCK, K. Canada's beef cattle industry and its national organization. *Shorthorn News* 9(4): 21-22. Dec. 1948. 43.8 Sh85

National Council of Canadian Beef Producers.

31009 DANS, C. Meat in every larder; a general survey of the livestock situation in the Islands. *Philippine Livestock Mag.* 1: 50-51. Dec. 1947. 49 P53

31010 DASPIT, A. P. Louisiana's fur industry. *La. Conserv.* 1(2): 17-18. Oct. 1948. 279.8 L93

31011 DAVIDSON, H. R. The production and marketing of pigs [Great Britain]. London, Longmans, Green, 1948. 535 p. 46 D282

31012 ENSMINGER. New frontiers for meat developed by research. *Natl. Provisioner* 120(8): 48, 50, 53-54, 57. Feb. 19, 1949. 286.85 N21

31013 FEVRIER, R. L'organisation technique de la production [Denmark]. *Moisson* 3(87): 3. May 9/15, 1947. 14 M72

The swine industry.

31014 GAUTHIER, J. P. Une peau "noble." *Mouton* 3: 121-122. Dec. 1948. 45.8 M86

31015 HÄCKER, F. Das schweinefleisch. *Württemberg. Wchnbl. f. Landw.* 115: 312. Oct. 30, 1948. 18 W96

31016 HARDENBERGH, W. The low-down on the meat outlook. *Pa. Meat Dealer* 23(1): 11. Jan. 1949. 286.85 P38

31017 HOPPER, W. C. The New Zealand sheep industry. *Overseas Rpt. Agr. Devlpmt.* 21, 4 p. Jan. 1949. 281.9 C16420

31018 HOULDSOON, F., and HOULDSOON, E. Does the rabbit man need advertising help? *Small Stock Mag.* 33 (2): 8, 47. Feb. 1949. 48.8 P442

31019 HUTTON, B. 4-H Clubs and the Oregon livestock industry. *Oreg. Dept. Agr. Agr. B.* 160: 12-14. Dec. 1948. 2 Or3

31020 IMMASCHE, F. W. The truth about the meat situation. *Amer. Mercury* 67: 548-554. Nov. 1948. 110 Am35

31021 JACKSON, W. T. The Wyoming Stock Growers' Association, its years of temporary decline, 1886-1890. *Agr. Hist.* 22: 260-270. Oct. 1948. 30.98 Ag8

31022 KELLY, W. S. Australian meat resources: a survey. (Sum.) *So. Austral. Dept. Agr. J.* 52: 120-123. Oct. 1948. 23 So84



- 31023 KENNEDY, K. Australia's future as a meat producer. *Gt. Brit. Min. Food. Food & Nutr.* 4(1): 16-18. Jan. 14, 1949. 389.9 G79F
- 31024 KIRBY, A. Nation's cattlemen want less Government control. *Pa. Meat Dealer* 23(1): 12. Jan. 1949. 286.85 P38
- 31025 LANGENFELD, A. L. The fur farmer and his National Board. *Natl. Fur News* 20(11): 18, 41. Dec. 1948. 412.628 R59  
National Board of Fur Farm Organizations.
- 31026 LARRALDE, W. La C. A. Agropecuaria de Maracay: una empresa y un campo de experimentación. Venezuela. *Min. de Fomento. Rev. de Fomento* 10(71/72): 107-114. Apr./Sept. 1948. 280.8 V552  
Promotion of the livestock industry.
- 31027 LARSEN, J. The livestock industry in 1948. (In Danish.) *Dansk Landbr.* 68: 19-22. Jan. 13, 1949. 280.28 V91
- 31028 LARSON, H. More meat for more people. *South. Livestock J.* 8(8): 31. Feb. 1949. 43.8 F66A
- 31029 LEEUWENBURG, P., and WHITMORE, R. Commercial rabbit farming. *Small Stock Mag.* 33(2): 3, 9, 12-13, 16. Feb. 1949. 48.8 P442
- 31030 LEROY, A. M. Le problème mondial actuel de la viande. *Soc. Sci. d'Hyg. Aliment.* B. 26: 242-260. 1948. 389.9 S01B
- 31031 LINDSTRÖM, J. R. Impressions from U. S. A. and Canada. 2. (In Norwegian.) *Norsk Pelsdyrbl.* 22: 317-320. Oct. 20, 1948. 412.628 N812  
Mink production.
- 31032 LOSKY, R. F. Suerte accidentada de los cerdos en el Perú durante los últimos 20 años. Peru. *Dir. de Ganad. e Indus. Pecuarias. Ganad.* 2(6): 58-63. Sept. 1948. 49.9 P433
- 31033 LOWER, E. S. Wool grease distillation products. *Oil & Colour Trade J.* 115: 27-28, 30, 32, 84-86. Jan. 7, 14, 1949. 306.8 O152
- 31034 MALAISÉ, V. VON. Schweinehaltung im Voralpengebiet [Germany]. *Landw. Wchnbl.* 138: 330. Oct. 23, 1948. 18 L2338
- 31035 MASNER, L. Německé koželužství. The German leather industry (BIOS and FIAT reports). *Tech. Hlídka Koželužská* 23: 349-360. Dec. 15, 1948. 303.8 T22
- 31036 MIHIÈRE, M. L'élevage porcine: espérances pour 1949. *Réveil Agr.* 58(2546): 6-7. Jan. 1, 1949. 14 R322
- 31037 MILLER, R. C. Sheep prospects. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 64: 20, 88. Jan. 1949. 6 P945
- 31038 MILLER, W. Save those dairy calves! *West. Dairy J.* 5(3): 22, 24. Jan. 1, 1949. 44.8 W524
- 31039 NEWTON, E. F. From waste to wealth, that's the slogan behind the story of by-products from the meat industry. *West. Livestock J.* 26(59): 38, 66. Oct. 15, 1948. 6 F2278
- 31040 NORMAN, J. T. Threefold campaign mapped as National Board objective. *Natl. Fur News* 20(11): 28. Dec. 1948. 412.628 R59  
National Board of Fur Farm Organizations.
- 31041 PAIREMAURE, O. Il faut développer la production mulassière. *Agr. Charentais* 3(11): 2. Dec. 1948. 14 Ag825
- 31042 PAJUELO VERA, J. A. La ganadería comunal indígena en el país. *Lanares y Lanás* 3(12): 15-16. (Cont.) July/Sept. 1948. 45.8 L22  
Peru.
- 31043 PARDO SUAREZ, R. Los mataderos y las carnicerías en el viejo Madrid. *Aliment. Nac.* 7(130): 10-11. Oct. 25, 1948. 389.8 AL42
- 31044 PERUCHON, J. L'élevage français en peril. *Voix des Colons* 30(1483): 1. Dec. 20, 1948. 24 V85  
Also in *Réveil Agr.* 58(2546): 7. Jan. 1, 1949. 14 R322
- 31045 PIEHLER, H. Neues aus Franken; Frankenhauer und veredelungswirtschaft. *Land. Wchnbl.* 138: 331. Oct. 23, 1948. 18 L2338
- 31046 POLLOCK, R. C. Meat animals in our national economy. *Shorthorn World* 33(20): 7-8. Jan. 25, 1949. 43.8 Sh8
- 31047 PORTEOUS, H. Grazing into a crystal bawl. *Calif. Farmer, North. Ed.* 190: 58-59. Jan. 15, 1949. 6 C126  
Beef cattle production in California.
- 31048 POTTER, E. L. Trends of supply and demand of animal foods in the western region. *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 26-31. 44.9 Am342  
Livestock situation.
- 31049 PUGH, E. S. Meat problems. *Primary Prod.* [Cape Town] 23(50): 11. Dec. 17, 1948. 281.8 P93
- 31050 QUEENSLAND. MEAT INDUSTRY BD. Year book 1947/48. Brisbane, 1948? 40 p. 286.3509 Q3
- 31051 REISNER, L. Bright outlook. *Ill. Agr. Assoc. Rec.* 26(12): 8, 34. Dec. 1948. 6 IL62  
Cattle feeding.
- 31052 ROGERS, A. The stockman and public relations. *Oreg. Dept. Agr. Agr. B.* 160: 5-6. Dec. 1948. 2 Or3
- 31053 RUNNING, C. Buy? Sell? Hold? *Shorthorn News.* 9(4): 35. Dec. 1948. 43.8 Sh85  
Beef cattle situation in Canada.
- 31054 SANZ EGAÑA, C. La Escuela de Industrias Cárnicas de Madrid. *Asoc. Argentina Criadores de Cerdos. Rev.* 27(315): 11-14, 17-18. Nov. 1948. 46.9 As5
- 31055 SCHNITZER, J. G. The outlook in 1949 for hides, leather and shoes. *Shoe & Leather Rptr.* 253(3): 7-8, 10. Jan. 15, 1949. 303.8 Sh7
- 31056 SCIENCE in the imported meat industry. *Roy. Sanit. Inst. J.* 69(1): 35-47. Ref. Jan. 1949. 449.9 R812  
I. General, by E. H. Callow, p. 35-39. II. Hygiene and storage, by M. Ingram, p. 39-47.
- 31057 SHELDON, W. Statistics valuable in charting changes. *Fur J.* 15(3): 29, 32. Jan. 1949. 412.628 F969  
Fur industry.
- 31058 SIMONPIETRI, R. H. Los cueros, una riqueza nacional que debe defenderse. *Chacra* 19(218): 104-105. Dec. 1948. 9 C34  
Argentina.
- 31059 STEARNS, H., and others. What livestock growers need from State services. *Oreg. Dept. Agr. Agr. B.* 160: 9-12. Dec. 1948. 2 Or3  
W. H. Steiwer, F. H. Cockell, C. R. Dear, and E. Finlay, joint authors.
- 31060 TITUS, N. It's a golden-opportunity season for buyers this winter. *Berkshire News* 14(3): 13, 26-27, 35, 39, 42-44, 46-48. Jan. 1949. 46.8 B454
- 31061 TONKINSON, E. The leather industry in the Midlands. *Leather Trades Rev.* 90: 528-530. Dec. 22, 1948. 303.8 L48
- 31062 TRULSSON, G. Quite good results; swine industry during the year 1948. (In Swedish.) *Lantmannen* 33: 22-23. Jan. 8, 1949. 11 L234
- 31063 UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH. DEPT. OF AGRICULTURAL ECONOMICS. Store cattle raising in Wales: a survey of conditions and production costs, by B. H. Roberts. *Aberystwyth*, 1948. 23 p. 281.343 Un33S
- 31064 VALCAUDA, A. L. Exchange of ideas important for success of fur industry. *Fur J.* 15(3): 35. Jan. 1949. 412.628 F969
- 31065 VILLEGAS, V. Our post-war livestock industry. *Agr.-Com.-Indus. Life* 10(11): 2-3, 33. Nov. 1948. 25 Ag8  
In the Philippines.
- 31066 YOUNG, W. B. Beef cattle on New England farms. *Rural New-Yorker* 99: 34, 55. Jan. 15, 1949. 6 R88  
Economic factors.

#### Analysis and Composition

- 31067 COVER, S., and SMITH, W. H. Effect on thiamin retention of adding a carbohydrate vegetable to beef stew. *Food Res.* 13: 475-481. Ref. Nov./Dec. 1948. 389.8 F7322
- 31068 COVER, S., DILSAVER, E. M., and HAYS, R. M. Retention of B vitamins after large-scale cooking of meat. I. Suitability of left and right muscles for retention studies. *Food Res.* 13: 472-474. Nov./Dec. 1948. 389.9 F7322
- 31069 GINSBERG, A. The differentiation of meats by the precipitation test. *Vet. Rec.* 60: 683-685. Ref. Dec. 25, 1948. 41.8 V641

#### Distribution, Marketing, and Transportation

- 31070 SCHLEICHER, F. Erfassung von borsten, tierhaaren, hörnern, hufen und klauen. *Versorgung* 3(1): 14. Aug. 1948. 280.8 V61
- 31071 BARLOW, F. S. Swiss livestock market. *Hoard's Dairyman* 94: 76. Jan. 25, 1949. 44.8 H65
- 31072 BERESFORD, R. How do you market your livestock? *Country Gent.* 119(2): 26, 88, 93-96. Feb. 1949. 6 C833



31073 BLAKELEY, A. A. Public markets are producers assets. Rec. Stockman, Ann. Ed. 59(52): 230-231. Dec. 23, 1948. 49 D43  
In livestock industry.

31074 CASA-PACHECO, MARQUÉS DE. El inter-vencionismo en las carnes. Ganadería [Madrid] 6: 436-437. Aug. 1948. 49 G15

31075 CHRISTENSEN, J. O. A real mink grower's cooperative. Amer. Fur Breeder 21(7): 32. Jan. 1949. 410 Am33

31076 COCKERILL, P. W. Freight rates on New Mexico livestock and feed. N. Mex. Agr. Expt. Sta. B. 346, 14 p. Dec. 1948. 100 N465

31077 DAVIES, H. Future market for canned meats. Meat 30(3): 76. Jan. 1949. 286.85 M464

31078 DEDERER, M. Marketing: what happened in 1948? Fur J. 15(3): 21, 32. Jan. 1949. 412.628 F969

31079 FRENCH, H. W. Plenty of feeding in sight. Amer. Cattle Prod. 30(8): 14, 16, 18, 20. Jan. 1949. 49 P94

Beef cattle market.

31080 GILCHRIST, F. W. Self-service retailing of meat. J. Mktg. 13: 295-304. Jan. 1949. 280.38 J82

31081 GOULD, E. Advertising our dogs. Bloodlines 32(2): 3, 23. Feb. 1949. 48.8 B62

31082 HAYDEN, W. J. Auction sale yards. Oreg. Dept. Agr. Agr. B. 160: 8. Dec. 1948. 2 Or3  
For selling livestock and poultry.

31083 HOLLANDS, H. F., and CLARK, A. R. Livestock auction markets in Montana. Mont. Stockgrower 21(1): 4-12. Jan. 15, 1949. 49 M76

31084 HOSS, R. M. Looking ahead in farm marketing. Kans. Stockman 33(3): 23. Jan. 1949. 49 K134

Cattle.

31085 JOHNSON, W. A. Progress in public relations; a report to livestock producers. Wyo. Stockman-Farmer 55: 5. Jan. 1949. 6 W992

Work of the Public Relations Committee, American National Livestock Association.

31086 KALBERER, K. Kontenrahmen für den vieh- und pferdehandel. Deut. Viehhandel 3(16): 7. Aug. 1948. 49 D482

31087 KREHAN, H. Viehmängel. Salzburg. Bauer 3(52/53): 5-6. Dec. 23, 1948. 19 Sa3  
In purchases.

31088 LANG, C. D. General economic conditions and future market outlook. Fur Trade J. Canada 26(4): 62, 64, 66. Dec. 1948. 410 F965  
Fur farming.

31089 RANDELL, C. G. Live stock co-ops increase local sales. Natl. Live Stock Prod. 27(5): 23. Feb. 1949. 280.38 N21

31090 RITCHIE. Relationship between the provinces and the [fur farming] industry. Fur Trade J. Canada 26(4): 66, 68. Dec. 1948. 410 F965  
In Canada.

31091 RUSSELL, R. S. Government bulk buying; an economic and critical analysis of government purchasing: meat. Weekly Mkt. News & Mod. Farmer 27(6): 2. (Cont.) Feb. 10, 1949. 286.81 G762A  
Canada.

31092 TAYLOR, M. H. When shall we market livestock. Utah Farmer 68(9): 34, 35. Dec. 15, 1948. 6 D45

31093 TUTTLE, G. Group marketing plan is important to all [mink] farmers. Fur J. 15(3): 7. Jan. 1949. 412.628 F969

31094 UNION STOCK YARDS COMPANY OF OMAHA (LIMITED). Annual live stock report, 65th, 1948. Omaha, 1949. 20 p. 49.9 Om1R

31095 VÁZQUEZ FERNÁNDEZ-ARROYO, A. El tránsito de ganados por vías municipales. Ganadería [Madrid] 6: 376-377. July 1948. 49 G15  
Legal aspects.

31096 VILLENEUVE, P. L'achat des vaches laitières. B. des Agr. 45(1): 43-44. Jan. 1949. 7 B872

31097 VOSKUIL, W. C. Co-op livestock markets bid for farm animals. Wis. Agr. & Farmer 75(20): 7. Oct. 16, 1948. 6 W751

31098 WILLS, W. J. How Illinois farmers buy and sell sheep and lambs. Ill. Farm Econ. 162/163: 758-760. Nov./Dec. 1948. 275.28 IL5

#### Grading, Inspection, Standardization, and Quality

31099 ALLEN, N. Observations on changes in color of fresh meat. Natl. Provisioner 119(17): 18. Oct. 23, 1948. 286.85 N21

31100 ALLENSPACH, V. Zum Bundesratsbeschluss über die abänderung der eidg. fleischschauverordnung. Schweiz. Arch. f. Tierheilk. 91: 23-28. Jan. 1949. 41.8 Sch9

31101 ARGENTINA. DIRECCIÓN DE ZOOTECNIA. Valorizamos nuestros cueros vacunos. Argentina. Dir. de Inform. P. Misc. 277, 19 p. 1948. 9 P943

31102 GARFIELD, C. D. Farmers must produce quality pelts. Fur J. 15(3): 5, 48-49. Jan. 1949. 412.628 F969

31103 GINSBERG, A., and ROBERTSON, A. Meat hygiene. Vet. Rec. 61: 9-10. Ref. Jan. 8, 1949. 41.8 V641

31104 LONGWILL, A. Carcass quality evaluation scheme for baconers. New Zeal. J. Agr. 77: 559, 561-562. Dec. 1948. 23 N48J

31105 SCHONBORN, G. Die fleischbeschau; lehrgang für fleischbeschauer und trichinenschauer. Hannover, Schaper, 1947. 289 p. 50 Sch6

31106 TAYLOR, J. K. Sanitation and wholesomeness of meat. Oreg. Dept. Agr. Agr. B. 160: 14-16. Dec. 1948. 2 Or3

31107 U. S. BUR. OF ANIMAL INDUSTRY. MEAT INSPECTION DIV. Information for applicants for Federal meat inspection. Rev. Washington? 1948. 42 p. 1.9422 M8In3

31108 U. S. PRODUCTION AND MARKETING ADMIN. Market classes and grades of livestock. U. S. D. A. Dept. B. 1360, slightly rev., 30 p. Dec. 1948. 1 Ag84B

31109 VOLZ, F. E., and others. The effect of ultra-violet light in the meat cooler on the keeping quality of frozen pork. Food Technol. 3(1): 4-7. Jan. 1949. 389.8 F7398

W. A. Gortner, E. W. Pitz, Jr., and J. I. Miller, joint authors.

#### Packing and Packaging

31110 URTON, D. Cellophane wrapper used by frozen chip steak firm. West. Canner & Packer 41(1): 51-53. Jan. 1949. 286.83 W522

#### Prices, Price Control, and Rationing

31111 BECKER, L. Richtpreise für rassekaninchen. Kleintier-Zücht. Tierbörse 3(49): 8. Dec. 10, 1948. 49 K672

31112 BECKMAN, H. J. Three thin dimes—present top prices seem assured for future production of pork. West. Livestock J. 27(6): 155-156. Dec. 15, 1948. 6 F2278

31113 BRÜGGEMANN, A. Nutzviehhochstpreise und preisüberwachung. Deut. Viehhandel 3(23): 3. 1948. 49 D482

31114 DOWELL, A. A., and BREKKE, A. Trends in prices of purebred cattle. Minn. Agr. Expt. Sta. B. 398, 19 p. Apr. 1948. 100 M66

31115 JENNINGS, R. D. How heavy should I feed my hogs? Agr. Situation 33: 9-11. Jan. 1949. 1 Ec7Ag

Price changes.

31116 MILLER, K. P. Livestock. Stock & Dairy Farmer 37(3): 5. Jan. 1949. 6 N8195

The price situation and outlook.

31117 MORTENSON, W. P. Will large crops drop meat price? Wis. Agr. & Farmer 75(20): 35. Oct. 16, 1948. 6 W751

31118 ORTHOF, R. Kaninchenpreise! Osterr. Kleintierzüchter 1948: 487. Dec. 1948. 49 Os7

31119 STRUVE, H. Richtpreise für rassekaninchen. Kleintier-Zücht. Tierbörse 3(46): 8. Oct. 25, 1948. 49 K672

#### Processing and Storage

31120 BLUMER, T. N. The right way to cure meat. Carolina Co-op. 26(12): 13, 20, 28-29. Dec. 1948. 72.8 N81

31121 CARVER, S. R. Bacon curing. Australia. Bur. Census and Statis. Mfg. Indus. 1946/47, 24, 8 p. Dec. 13, 1948. 271 Au72Ma



- 31122 CARVER, S. R. Meat and fish preserving. Australia. Bur. Census and Statis. Mfg. Indus. 1946/47, 38, 11 p. Dec. 20, 1948. 271 Au72Ma
- 31123 ENDRES, J. F. Cut more profits from beef rounds. *Independ. Grocergram* 22(10): 40-43. Oct. 1948. 286.28 In2
- 31124 FALCIONI, A. C. El ahumado para la conservación de carnes. *Chacra* 19(218): 19. Dec. 1948. 9 C34
- 31125 FERNANDEZ, T. M. Ham making and other meat specialties. *Philippine Livestock Mag.* 1: 38-41. Dec. 1947. 49 P53
- 31126 GOULD, S. E., and KAASA, L. J. Low temperature treatment of pork. *Refriger. Engin.* 57: 138-139, 183. Feb. 1949. 295.9 Am32J  
Also in *Amer. J. Hyg.* 49(1): 17-24. Jan. 1949. 449.8 Am3
- 31127 HENSCHEN, H. P. Packing house construction. *Canad. Food Indus.* 20(2): 30-31, 33. Feb. 1949. 286.83 C166
- 31128 JURNEY, R. C., JR. Tanning leather with sulfonyl chlorides. *Amer. Leather Chem. Assoc. J.* 44(1): 14-22. Jan. 1949. 303.9 Am32
- 31129 KELLER, G. Futterfleisch-konservierung. *Deut. Pelztierzucht.* 22: 226-228. Dec. 15, 1948. 412.628 D48
- 31130 LEWIS, L. H. Preventing livestock losses. *For Sale, Want & Exch. B.* 11(8): 1. Feb. 1, 1949. 280.38 F74
- 31131 NEW PROBLEMS ahead for meat packing industry. *Meat* 30(3): 27-28, 84. Jan. 1949. 286.85 M464  
Statements by various people.
- 31132 NICHOLLS, W. H. Labor productivity functions in meat packing. Chicago, U. Chicago Press, 1948. 256 p. Ref. 283 N512
- 31133 PATTERSON, G. H. Aliphatic sulfonyl chlorides for tanning leather. *Amer. Leather Chem. Assoc. J.* 44(1): 2-13. Ref. Jan. 1949. 303.9 Am32
- 31134 PEREGO, E. Smoking of pork. (In Italian.) *Campagna* 47: 334-335. Dec. 15, 1948. 16 C152
- 31135 PIETRASZEK, G. Hormel's new air diffusion technique in coolers. *Natl. Provisioner* 120(4): 12-13, 31. Jan. 22, 1949. 286.85 N21
- 31136 RIBEIRO, P. DE A. The preservation of meat by salting and drying. (In Portuguese.) *Rev. dos Criadores* 19(11): 55-58; (12): 47-49. Nov.-Dec. 1948. 43.8 R32
- 31137 RIVIERE, J. Contribution à l'étude de la transformation des nitrates en nitrites dans les salaisons. *Inst. Natl. Agron., Paris. Ann.* 35: 5-111. Ref. 1948. 105.3 In3
- 31138 RUIZ MARTÍNEZ, C. Conservación de los alimentos por el frío. Inspección veterinaria de las carnes y pescados congelados. *Rev. Gracolumb. de Zootec. Hig. y Med. Vet.* 2: 326-405. Ref. Apr./June 1948. 41.8 R3253
- 31139 TEFFT, H. D. What refrigeration research has meant to the meat packing industry. *Ice & Refriger.* 116(1): 43-44. Jan. 1949. 295.8 Ic2
- 31140 TINDALL, C. Champion country hams are cured this way. *Mo. Ruralist* 90: 10. Jan. 8, 1949. 6 R8891
- 31141 GREAT BRITAIN. COMMONWEALTH ECONOMIC COMMITTEE. Meat; a summary of figures of production, trade and consumption relating to beef, live cattle, mutton and lamb, live sheep, bacon and hams, pork, live pigs, canned meat, offals. London, 1948. 91 p. 280.39 G794C  
World statistics.
- 31142 ULRICH, J. A. Tests on bacon point way to keep it fresh in cans. *Food Indus.* 21: 79-80, 186. Jan. 1949. 389.8 F737
- 31143 VINCK, V. Manuel technique pour bouchers et charcutiers. Ed. 2. Anvers, 1948. 679 p. 50 V74  
Includes processing.
- 31144 WHITLOCK, R. In a country tannery; up-to-date methods in an ancient rural industry. *Field* 192: 692. Dec. 18, 1948. 10 F45
- 31145 ZIEGLER, P. T. The meat we eat. Danville, Ill., Interstate, 1948. 497 p. 389 Z6  
Slaughtering and processing of meat and meat products.
- 31146 BEILBY, O. J. The decline in horse numbers. *Scot. Dept. Agr. Farm Econ.* 16: 8-9. Autumn 1948. 281.9 Sco3F
- 31147 CANADA. BUR. OF STATISTICS. AGRICULTURAL DIV. Live stock and animal products statistics, 1947. 1949. 86 p. 253 C334  
Text in English and French.
- 31148 MEXICO. DIRECCIÓN GENERAL DE ESTADÍSTICA. Censo agrícola ganadero y ejidal 1940; ganado, aves y colmenas. Mexico, 1948. 400 p. 254.5 Es823Ce
- 31149 PECHANEC, J. F. Have range regulations caused a reduction in sheep numbers in the Western States? *Amer. Dairy Sci. Assoc. West. Div. Proc.* (1948) 29: 32-38. 44.9 Am342
- 31150 RAAB, J. Die schafhaltung in Bayern. *Bayern in Zahlen* 2: 184-185. July/Aug. 1948. 265 B34
- 31151 RAEBURN, J. R. Charts of pig numbers and prices. *Pig Breeders' Gaz.* 57: 11-15. Dec. 1948. 46.8 N21  
For United Kingdom, Denmark and Canada.
- 31152 SJÖSTRAND, J. Young horses and foals have decreased in numbers. (In Swedish.) *Lantmannen* 33: 92. Feb. 5, 1949. 11 L234
- 31153 U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle on feed, January 1, 1949. 2 p. 1.9 Ec742Caf

## OILS AND OILSEEDS

- 31154 AFZAL, M. Cotton seed, oil and cake. *Indian Cotton Growing Rev.* 2: 167-177. Ref. Oct. 1948. 72.8 In23
- 31155 AMERICAN FAT SALVAGE COMMITTEE, INC. ADVERTISING COMMITTEE. Fat salvage report, August, 1942-September, 1948. 1948. 10 p. 307.9 Am3
- 31156 ATTOLINI, J. Las oleaginosas en la cuenca del Papaloapan. *Rev. de Econ.* 12(1): 23-27. Ref. Jan. 15, 1949. 280.8 R3293
- 31157 AUDOUIN, A., and LEVAVASSEUR, G. Essais d'émulsion des huiles végétales au moyen des ultra-sons. *Oléagineux* 4: 95-100. Feb. 1949. 77.8 OL2
- 31158 BABCOCK, G. E., and COWAN, J. C. Usage of soybean and phenolic glues. *Soybean Digest* 9: 16-17, 45. Nov. 1948. 60.38 So9
- 31159 BACHSTEZ, M., and CANALES-GAJA, A. M. Notas sobre drogas, plantas y alimentos mexicanos. VIII. Aceite de las semillas de mamey (*Lucuma mammosa* Gr.). *Ciencia* 8: 264-265. Ref. 1948. 475 C48
- 31160 BALTIMORE AND OHIO RAILROAD. TRAFFIC DEPT. Purchase oil-rich soybeans in the B & O Bumper Belt. Baltimore, Md., 1948? map. 60.3 B21
- 31161 BANKS, G. H. Stick out your chest. *Soybean Digest* 9(3): 18-19. Jan. 1949. 60.38 So9  
Cottonseed and soybean production.
- 31162 BUZI, C. C. Olive culture in Liguria. (In Italian.) *Olearia* 2: 868-877. Dec. 1948. 307.8 OL2
- 31163 CAGNONI, D. The soybean and its utilization. (In Italian.) *Alimenti* 4: 201-213. Sept./Oct. 1948. 389.8 AL44
- 31164 CANADA. BUR. OF STATISTICS. INDUSTRY AND MERCHANDISING DIVISION. GENERAL MANUFACTURES SECTION. Report on the vegetable oil industry in Canada, 1947. Ottawa, 1949. 7 p. 253 C3321
- 31165 CASS, W. G. Edible flour from oilcake. II. Food Manufacture 24(1): 21-22. Ref. Jan. 1, 1949. 389.8 F736  
Peanut flour.
- 31166 CAVALCANTI, M. DA C. P. B. Oleo de castanha de cotia, novo oleo secativo. *Rev. de Quím. Indus.* 16(179): 16-18. Mar. 1947. 385 R324
- 31167 CÉPÈDE, M. Le problème mondial actuel des corps gras. *Soc. Sci. d'Hyg. Aliment. B.* 36: 211-224. 1948. 389.9 SolB
- 31168 CHAIKOFF, I. I., ENTENMAN, C., and ZILVERSMIT, D. Absorption of fat in various nutritional and environmental states; a bibliography and review of the literature. Chicago, Res. and Devlpmt. Br., Off. of the Quartermaster Gen., Quartermaster Food and Container Inst. for the Armed Forces, 1947. 251 p. 152.71 C24
- 31169 COLLINS, J. C. Perspectives "corps gras" pour 1949 dans la métropole; les prochains espoirs du consommateur français. *Oléagineux* 4: 106-107. Feb. 1949. 77.8 OL2
- 31170 COOK, F. T. Control of margarine in South Africa. *Overseas Rpt. Agr. Devlpmts.* 20, 3 p. Jan. 1949. 281.9 C16420



- 31171 COSGROVE, D. J., ISLIP, H. T., and THAIN, E. M. Oil of *Melaleuca bracteata* from Kenya. *Gt. Brit. Imp. Inst. B.* 46(1): 46-53. 1948. 26 G79
- 31172 COWAN, J. C. Isomerization reactions of drying oils. *Indus. & Engin. Chem.* 41: 294-304. Ref. Feb. 1949. 381 J825
- 31173 DUMAS. Essai sur la recherche de l'huile d'arachide dans l'huile d'olive. *Acad. d'Agr. de France. Compt. Rend.* 34: 918-920. Nov. 10/17, 1948. 14 P215Bc
- 31174 ELANT, H. Olive culture and production of olive oil in French Morocco. (In Italian.) *Olearia* 2: 858-867. Dec. 1948. 307.8 OL2
- 31175 ELEAZER, J. M. Seed gaining importance in cotton economy. *Victory Farm Forum* 33: 13. Dec. 1948. 281.8 F226
- 31176 FERNÁNDEZ CABRERA, C. Sobre el aceite esencial de "*Mentha piperita* L."; contribución al estudio de sus reacciones cromáticas. *Nota primera. Soc. Españ. de Fís. y Quím. An. Ser. B. Quím.* 44: 501-510. Ref. Apr. 1948. 385 So16  
English summary.
- 31177 FRANÇOIS, R. Valorisation par pyrolyse des déchets d'huileries de palme. *Oléagineux* 3: 602-606. Ref. Dec. 1948. 77.8 OL2
- 31178 GANDY, D. E. The future possibilities of oil-seed crushing. *Oil Mill Gaz.* 53(7): 15-18. Jan. 1949. 307.8 Oi53
- 31179 GEORGIA. AGRICULTURAL AND DEVELOPMENT BD. Cottonseed contributes the raw material for countless products. *Ga. Prog.* 5(8): 4 p. Feb. 1949. 280.8 G292
- 31180 GOSS, W. H. Soybean oil in food products. *Soybean Digest* 9(3): 28, 30. Jan. 1949. 60.38 So9
- 31181 GOURLEY, A. D. Oils and fats position in South Africa. *So African Indus. Chem.* 2: 163-164. Sept. 1948. 385 So8
- 31182 GRACE, N. H. Margarine. *Canad. Food Indus.* 20(1): 30-31, 33, 35, 37. Ref. Jan. 1949. 286.83 C166
- 31183 THE GROUNDNUT and its treatment. I. Food Manufacture 24: 65-69. Feb. 1, 1949. 389.8 F736
- 31184 HEINÄNEN, P., and others. Über die oxydation des tallöls. *Suomen Kemistilehti. B.* 21: 65-74. Ref. 1948. 385 Su7  
E. Tarkka, V. E. Krogerus, and C. G. Ahlfeldt, joint authors.
- 31185 HOUSEHOLDER, G. M. Our last ditch fight with oleo. *Jersey B.* 68: 168-169, 213-215. Feb. 10, 1949. 43.8 J48
- 31186 INTER-AMERICAN ECONOMIC AND SOCIAL COUNCIL. Fats and oils in Latin America, by R. Kifer. Washington, Pan Amer. Union, 1947. 79 p. 307 In82
- 31187 JACINI, G. The introduction of aryl groups in linseed oil acids. (In Italian.) *Chim. e l'Indus.* 30: 236-238. Sept. 1948. 385 G43
- 31188 JACOBS, M. B. Gin flavorings. *Amer. Perfumery Essential Oil Rev.* 53(1, sect. 1): 54-56. Jan. 1949. 308.8 Am3  
Discusses essential oils used.
- 31189 KÄHLER, K. H. Neuere anschauungen über morphologie und biochemie der inhaltsstoffe pflanzlicher samen und deren industrielle verarbeitung. *Getreide, Mehl u. Brot.* 3(1/2): 11-14. Jan. 1949. 298.8 G33
- 31190 KANE, J. G., and KULOOR, L. R. Dehydration of castor oil—use of sulphuric acid at low pressure. *J. Sci. & Indus. Res.* 7B: 184-187. Ref. Nov. 1948. 475 J82
- 31191 KAPPELMEIER, C. P. A. The chemistry of the dehydration of castor oil. *Paint, Oil, and Chem. Rev.* 112(1): 22, 36-38, 40. Jan. 6, 1949. 306.8 P16
- 31192 KELLER, J. C. Supply of peanuts for edible purposes from 1948 crop placed at around 544 thousand tons on January 8. *Peanut J. & Nut World* 28(4): 23, 54. Feb. 1949. 77.8 P313
- 31193 KESTERSON, J. W., and MCDUFF, O. R. Florida citrus oils; commercial production methods and properties of essential oils (1947-48 season). *Fla. Agr. Expt. Sta. B.* 452, 44 p. Ref. Nov. 1948. 100 F66S
- 31194 KRETZSCHMAR, K. L'industrie de l'huilerie en Europe. *Oléagineux* 3: 597-601. Dec. 1948. 77.8 OL2
- 31195 KUIKEN, K. A., and LYMAN, C. M. Essential amino acid composition of soy bean meals prepared from twenty strains of soy beans. *J. Biol. Chem.* 177(1): 29-36. Ref. Jan. 1949. 381 J824
- 31196 LAMMINEN, A. J. Solvent extraction of oils. *Canad. Food Indus.* 20(2): 18-19, 21-22. Feb. 1949. 286.83 C166
- 31197 LENGELLÉ, M. La production et les besoins en corps gras dans le monde. *Oléagineux* 4: 12-15. Jan. 1949. 77.8 OL2
- 31199 LE ROCHEBROCHARD, X. DE. Le groupement interprofessionnel pour le développement de la production des oléagineux dans les territoires français d'Outre-Mer. *Oléagineux* 3: 613-615. Dec. 1948. 77.8 OL2
- 31199 LEUBUSCHER, C. The processing of copra, oil palm products, and groundnuts. *Gt. Brit. Imp. Inst. B.* 46(1): 4-45. 1948. 26 G79
- 31200 LEWIS, A. J. Paints from soybean oil. *Soybean Digest* 9(3): 16-17. Jan. 1949. 60.38 So9
- 31201 LOWE, R. C. Olive canner keeps transport units busy. *West. Canner & Packer* 41(1): 26-27. Jan. 1949. 286.83 W522
- 31202 MADRAS. BOARD OF REVENUE. Statistics—crop—castor—1947—first and final report. Madras, 1948. 2 p. 77.9 In22C
- 31203 MALLASÉN ORNAT, M. Aceites esenciales. II. *Ion* 8: 661-665. Oct. 1948. 385 Io6
- 31204 MARASCHINI, F. For a better utilization of rape seed. *Riv. Ital. Essenze, Profumi, Pianta Off., Olii Veg., Saponi* 30: 537. Dec. 15, 1948. 290.8 C16A
- 31205 MÁRSICO, D. F. Fundamentos de orientación olivarera. *Rev. Mens. Ilus. B. A. P.* 32(374): 34-40, 58-59, 61-64. Ref. Jan. 1949. 9 R326
- 31206 MARTINENGHI, G. B. Chimica e tecnologia degli oli, grassi e derivati [Chemistry and technology of oils, fats, and derivatives]. Ed. 2, rev. and enl. Milano, Hoepli, 1948. 746 p. 307 M362C
- 31207 MASQUELIER, J. Étude chimique sur les pigments de la graine d'arachide. II-III. *Soc. Chim. de France. B.* 15: 1172-1175, 1175-1177. Ref. Nov./Dec. 1948. 383 P21B  
Pt. II by J. Masquelier and P. Blanquet.
- 31208 MAY, A. Margarine can maintain a fine balance in our agricultural economy. *Food Canada* 9(1): 24, 26-27. Jan. 1949. 389.8 F7323
- 31209 MENSIEUR, P. H. La Compagnie Générale des Oléagineux Tropicaux. *Oléagineux* 3: 616-617. Dec. 1948. 77.8 OL2
- 31210 MILLER, L. C. Inside story of the soybean. *Soybean Digest* 9(3): 13-15. Jan. 1949. 60.38 So9  
Processing.
- 31211 MITCHELL, W. K. The peanut in Jamaica. *Jamaica. Dept. Agr. Ext. C.* 18, 4 p. July 1948. 275.249 J22
- 31212 MORETTI, J. Recherches sur la déshydrogénation catalytique des acides gras. *Soc. Chim. de France. B.* 15: 1154-1161. Nov./Dec. 1948. 383 P21B
- 31213 MURTI, K. S., and DOLLEAR, F. G. Composition of rice bran oil. *Rice J.* 52: 14-16. Ref. Jan. 1949. 59.8 R36
- 31214 MURTI, K. S. Rice bran oil. II. Composition of oil obtained by solvent extraction. *Oil Mill Gaz.* 53(7): 13-15. Jan. 1949. 307.8 Oi53
- 31215 NAIK, K. G., and DESAI, C. M. Sulphation & sulphonation of Indian vegetable oils—pt. I-II. *J. Sci. & Indus. Res.* 7B: 193-197. Dec. 1948. 475 J82
- 31216 NATIONAL COTTONSEED PRODUCTS ASSOCIATION, INC. Allergy to cottonseed and other oilseeds and their edible derivatives. Memphis, 1948. 275 p. 389.1 N2122
- 31217 PAQUOT, C., and NAJAND, A. Extraction par solvants sélectifs de l'huile de sésame. *Oléagineux* 4: 22-24. Ref. Jan. 1949. 77.8 OL2
- 31218 PATTON, A. R. "New look" in soybean oil meal. *Nulaid News* 26(8): 17. Dec. 1948. 47.8 N917
- 31219 PECHNIK, E., CHAVES, J. M., and GUIMARÃES, L. R. Study of the stability of provitamin A in vegetable oils. (In Portuguese.) *Arq. Bras. de Nutr.* 5(3): 5-22. Ref. May/June 1948. 389.8 Ar6  
English summary, p. 20-21.
- 31220 PELLETT, K. There's a soybean boom in the Missouri boot-heel. *Soybean Digest* 9: 12-13, 24. Nov. 1948. 60.38 So9
- 31221 PHILIPPART, J. Le rôle des régions à climat tempéré dans l'économie française des corps gras. *Oléagineux* 3: 590-596. Dec. 1948. 77.8 OL2



- 31222 PLANTE, M. P. Essential oils of Brazil. Clark U. Abs. Diss. and Theses 1948: 81-83. 241.8 C54 1948. 241.8 C54
- 31223 POWERS, P. O. Mechanism of the oxidation of drying oils. Indus. & Engin. Chem. 41: 304-309. Ref. Feb. 1949. 381 J825
- 31224 RAMÍREZ GARCÍA, J. Desarrollo de la industria de grasas vegetales en los Estados Unidos y perspectiva de una industria igual en Puerto Rico. Rev. de Agr. de Puerto Rico 39(1): 44-47. Jan./June 1948. 8 R325
- 31225 REDDI, P. B. V., MURTI, K. S., and FEUGE, R. O. New rice bran oil tests reported. Rice J. 51(12): 20-25. Ref. Dec. 1948. 59.8 R36
- 31226 RIBAS MARQUÉS, I., and DOMÍNGUEZ RODRÍGUEZ, J. Sobre el aceite de cornezuelo. I. El elevado índice de hidroxilo (O de acetilo) de este aceite y su contenido en ácido ricinoléico. Soc. Españ. de Fís. y Quím. An. Ser. B. Quím. 44: 467-482. Ref. Apr. 1948. 385 So16  
English summary.
- 31227 SALOMONE, G. Fractionation of linseed oil with selective solvents. (In Italian.) Olearia 2: 834-837. Dec. 1948. 307.8 OL2
- 31228 SALVATO, T. M. National [Italian] requirements in essential oils, resins, and balsams of foreign origin for the essence and perfume industry. (In Italian.) Riv. Ital. Essenze, Profumi, Pianta Off., Olii Veg., Saponi 30: 515. Dec. 15, 1948. 290.8 C16A
- 31229 SCATTOLIN, L. L. Margarine. (In Italian.) Agricoltore [Milano] (n. s.) 29(49): 1. Dec. 4, 1948. 16 Ag862
- 31230 SCHUH, W. VON. Die einbürgerung der soja-bohne. Landw. Wchnbl. 138: 368. Nov. 13, 1948. 18 L2338  
Germany.
- 31231 SCHUH, W. VON. Soybeans promoted by German association. Soybean Digest 9(3): 50. Jan. 1949. 60.38 So9
- 31232 SCHWITZER, M. K. Continuous solvent extraction of vegetable crops. II. Internatl. Chem. Engin. & Process Indus. 30(1): 23. Jan. 1949. 382 In8
- 31233 SCOTT, W. M. The southern producer and the soybean crop. Soybean Digest 8(12): 12-14. Oct. 1948. 60.38 So9
- 31234 SERVANT, M., and VALANTIN, G. Composition en acides gras des glycérides solides et liquides de l'huile de palme. Oléagineux 4: 16-21. Jan. 1949. 77.8 OL2
- 31235 SMITH, A. K., and JOHNSEN, V. L. Sunflower seed protein. Cereal Chem. 25: 399-406. Ref. Nov. 1948. 59.8 C33
- 31236 SORENSEN, S. O. Drying oils: their origin, manufacture and properties. In Van Fischer, W., ed. Paint and varnish technology, p. 11-28. New York, 1948. 271.1 Ir7
- 31237 SUGIMOTO, Y. Fats and oils [Japan]. Oriental Econ. 15: 1091-1094. Dec. 18, 1948. 280.8 Oi4
- 31238 SWANTON, M. K. Yellow oleo; prohibit its sale and manufacture. Hoard's Dairyman 94(1): 7. Jan. 10, 1949. 44.8 H65
- 31239 TAYEAU, F., and MASQUELIER, J. Etude chimique sur les pigments de la graine d'arachide. I. Soc. Chim. de France. B. 15: 1167-1172. Ref. Nov./Dec. 1948. 383 P21B
- 31240 TERRILL, R. L. The chemistry of improved drying oils. In Van Fischer, W., ed. Paint and varnish technology, p. 29-49. Ref. New York, 1948. 271.1 Ir7
- 31241 U. S. PRODUCTION AND MARKETING ADMIN. Peanuts; acreage allotments, price supports. Washington, 1948. 2 p. 1.956 A2P312
- 31242 VALLEGGI, M. Specialize! Specialists are needed for olive culture and oil manufacture. (In Italian.) Gior. di Agr. 59: 4. Jan. 2, 1949. 16 It1G
- 31243 VAN CLEVE, B. What kind of advice can you give an olive? West. Canner & Packer 41(1): 23-24. Jan. 1949. 286.83 W522  
Advertising.
- 31244 VERHAAR, G., and DEYS, W. B. Tea seed oil. II. (In Dutch.) Arch. v. de Theecult. 16: 37-52. Sept. 1948. 68.18 Ea72  
English summary.
- 31245 WEISS, H. Neue untersuchung über zusammen-setzung und entbitterung von sojabohnen. Getreide, Mehl u. Brot. 3(1/2): 1-2. Jan. 1949. 298.8 G33
- 31246 WESEMANN, H. P. Essential oils victim of dollar hunt. Spice Mill 72(1): 45. Jan. 1949. 389.8 Sp4
- 31247 WOODROFF, J. G., THOMPSON, H. H., and CECIL, S. R. How refrigeration protects quality of peanuts. Food Indus. 21: 67-71, 189-190. Jan. 1949. 389.8 F737
- 31248 WOODROFF, J. G., THOMPSON, H. H., and CECIL, S. R. Special Food Industries report on peanut butter. Food Indus. 21: 186-191. Feb. 1949. 389.8 F737

## POULTRY AND POULTRY PRODUCTS

- 31249 ALABAMA. POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION SERV. What is a good egg? Ala. Polytech. Inst. Agr. Ext. C. 353, 4 p. July 1947. 275.29 AL1C
- 31250 ALTHOUSE, S. L. Outlook for 1949; we take a look into an uncertain future. Hatchery & Feed 23(1): 10, 12. Jan. 1949. 47.8 H28
- 31251 ANDERSON, B. W. Waxing keeps poultry fresh. Amer. Poultry J. 80(1): 53. Jan. 1949. 47.8 Am32  
Method of packaging frozen poultry.
- 31252 BAKKE, D. J. How I produce clean eggs. Nulaid News 26(10): 4-5. Feb. 1949. 47.8 N917
- 31253 BARTON, O. A. Egg quality. Dak. Farmer 69(2): 10. Jan. 15, 1949. 6 D14
- 31254 BARTON, O. A. Quality egg program. Dak. Farmer 69: 12. Jan. 1, 1949. 6 D14
- 31255 BARTON, O. A. Review of '48 poultry. Dakota Farmer 68(24): 8. Dec. 18, 1948. 6 D14
- 31256 BERISSO, B., and others. Estudio de constantes físicas y de la acidez del huevo de gallina tipo exportación argentino; influencia de la temperatura en la reproducción de la sombra en los huevos infértiles y fértiles. Soc. Rur. de Rosario. Rev. 27(317/318): 9-16, 18-20, 22-26, 28-34, 36-44, 46-50, 52-60. Ref. July/Aug. 1948. 9 So14  
M. D. Benetti López, G. Albarracín, and B. T. Julia, joint authors.
- 31257 BRICKER, C. Four hundred feet of eggs. Ed. Screen 27: 437-438, 460-462. Nov. 1948. 280.68 Ed82  
Showing films to children.
- 31258 BRUCE, W. H. Table poultry production in Australia. Poultry Farmer [Sydney] 16(20): 5-7; (22): 4-5; (23): 6. Nov. 13, 27, Dec. 4, 1948. 280.28 Or32
- 31259 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Freezing poultry for home use, by V. G. Mrak and G. F. Stewart. Berkeley, 1948. 2 p. 275.29 C122
- 31260 CARPENTER, C. D. The importance of refrigeration in the poultry and egg industry. Ice & Refrig. 116(1): 44-45. Jan. 1949. 295.8 Ic2
- 31261 CERVA, A. Jetzt Kücken bestellen! Salzburg. Bauer 4(2): 3. Jan. 13, 1949. 19 Sa3
- 31262 COLEMAN, G. E., JR. You and your egg supply. Hatchery & Feed 23(2): 14, 32-33. Feb. 1949. 47.8 H28
- 31263 DALBY, G. The determination and definition of color in eggs. Cereal Chem. 25: 413-417. Nov. 1948. 59.8 C33
- 31264 DOMINGUES, O. Good quality in eggs. (In Portuguese.) Lavoura 52: 59. Sept./Oct. 1948. 9.2 L39
- 31265 DREWS, H. E. Poultry packers pause for a look ahead. Quick Frozen Foods 11(7): 43-45, 84. Feb. 1949. 389.8 Q4
- 31266 DURHAM, W. W. Southeastern [Poultry and Egg] Association again described as "exuberant." Amer. Egg & Poultry Rev. 10(1): 50. Jan. 1949. 47.8 Am38
- 31267 DURR, R. M. More frying eggs; a multi-million-dollar opportunity for the Southeast. Southeast. Poultryman 2: 4-5. Jan. 1949. 47.8 So872
- 31268 FELSENFELD, O. Notes on Salmonella cubana. Poultry Sci. 28(1): 142-143. Jan. 1949. 47.8 Am33P  
Cases in man, one due to eating infected poultry.
- 31269 FISCHER, C. M., and DELOACH, D. B. Consumer response to the marketing of cut-up turkey. Oreg. State Col. Ext. B. 457, 32 p. Aug. 1948. 275.29 Or32B
- 31270 FISCHER, C. M. Cut-up turkey sells well in Oregon; 10 wk. test sale proves Oregon people will buy. Turkey World 24(2): 46-48, 52-53. Feb. 1949. 47.38 T84



- 31271 FISCHER, S. H. The marketing of eggs and poultry. *Farming So. Africa* 23: 680-688. Oct. 1948. 24 So842
- 31272 FRAZIER, R. F. Strong Southeastern [Poultry and Egg] Association. *Amer. Egg & Poultry Rev.* 10(1): 8, 10. Jan. 1949. 47.8 Am38
- 31273 FRAZIER, R. F. Virginia poultry industry trends. *Amer. Egg & Poultry Rev.* 10(1): 40, 42-43. Jan. 1949. 47.8 Am38
- 31274 FUNK, E. M., and FORWARD, J. F. Effect of washing soiled eggs on hatchability. *Poultry Sci.* 28(1): 155-157. Jan. 1949. 47.8 Am33P
- 31275 FUNK, E. M. European poultry expanding; although hampered by feed shortages and government regulations, progress is being made. *Poultry Tribune* 55(2): 64-66. Feb. 1949. 47.8 P8642
- 31276 GANNON, A. Washing eggs with detergents. *South. Agr.* 78, i. e., 79: 18. Jan. 1949. 6 So83
- 31277 GODFREY, G. F. Shell color as a measure of egg shell quality. *Poultry Sci.* 28(1): 150-151. Jan. 1949. 47.8 Am33P
- 31278 GRAY, G. T. Supply flocks should have early chicks. *Pacific Poultryman* 53(1): 32. Jan. 1949. 47.8 P112
- 31279 GREENROYD, J. The Dutch poultry industry. *Poultry Indus.* 14: 83-85. Jan. 21, 1949. 47.8 P8644
- 31280 GUSLER, G. Poultry prospects good; producer can do much to make '49 good year. *Mont. Farmer-Stockman* 36(10): 9, 30. Jan. 15, 1949. 6 M764
- 31281 HADLINGTON, E. Good quality eggs are clean and cool. *Agr. Gaz. N. S. Wales* 59: 547-549. Oct. 1948. 23 N472
- Chiefly construction of a charcoal cooler.
- 31282 HARDY, E. Pigeon squabs for canning. *Food Manufacture* 24(1): 25-27. Jan. 1, 1949. 389.8 F736
- 31283 HAYHURST, J. We'll have more eggs; we may have more poultry meat, in 1949. *Smallholder* 80(2021): 16, 17. Dec. 24, 1948. 10 Sml
- Great Britain.
- 31284 HINSHAW, J. E. No. 1 project for 1949: fryer business—a community builder. *Hatchery & Feed* 23(2): 11, 45-47. Feb. 1949. 47.8 H28
- 31285 HIRSCH, A. Poultry industry and Hollywood again join hands to promote demand for chicken. *National Wishbone Contest* to be sponsored jointly by big movie firm and PENB [Poultry and Egg National Board]. *Poultry Supply Dealer* 26(2): 14-15, 19. Feb. 1949. 47.8 B11
- 31286 IVEY, J. E. Broilers, another source of farm cash income. *Ala. Polytech. Inst. Agr. Ext. C.* 362, 4 p. Feb. 1948. 275.29 AL1C
- 31287 JOHNSON, A. S., and CAVERS, J. R. A survey of farm egg quality. *Sci. Agr.* 28: 533-544. Ref. Dec. 1948. 7 Sci2
- 31288 KALOYEREAS, S. A. A new method of freezing eggs in the shell and its possibilities for further application on freezing foods in general. *Science* 109: 171-173. Ref. Feb. 18, 1949. 470 Sci2
- 31289 KLEIN, G. T. In Boston, it's cut-up chicken 20 to 1. *Poultry Tribune* 55(2): 15, 60. Feb. 1949. 47.8 P8642
- 31290 KLEIN, G. T. Should you grow broilers? *Farm J.* 73(2): 43, 44. Feb. 1949. 6 F2212
- The broiler industry.
- 31291 KOHLS, R. L., and PAARLBERG, D. Turkey numbers are going up in '49! Basing predictions on past cycles, economists see a big crop; good managers will make profit. *Turkey World* 24(2): 24, 82-84. Feb. 1949. 47.38 T84
- 31292 LANDIS, J. Sammlung, uebernahme und verwertung von landeiern 1948/49. *Geflügelhof* 12: 19-20. Jan. 14, 1949. 47.8 G276
- Switzerland.
- 31293 LINEWEAVER, H., FRAENKEL-CONRAT, H., and BEAN, R. S. Determination of trypsin in the presence of egg white trypsin inhibitor and demonstration of absence of trypsin from egg white. *J. Biol. Chem.* 177(1): 205-207. Jan. 1949. 381 J824
- 31294 LORENZ, F. W. On the efficiency of egg processing oils. *Poultry Sci.* 28(1): 119-127. Jan. 1949. 47.8 Am33P
- 31295 MCCONNELL, E. S. Look for expansion in Kentucky turkey production. *Amer. Egg & Poultry Rev.* 10(1): 44, 46. Jan. 1949. 47.8 Am38
- 31296 MCLEOD, A. N. Time and travel requirements in dressing ducks on Long Island farms, 1948. *N. Y. Agr. Col. A. E.* 684, 20 p. Jan. 1949. 281.9 C81
- 31297 MCNULTY, G. Josephine County betting on eggs. *Oreg. Farmer* 72: 3, 16. Jan. 6, 1949. 6 Or32
- 31298 METTLER, E. VIII. Weltkongress für Geflügelzucht in Kopenhagen; die eier- und geflügelverwertung in Dänemark. *Geflügelhof* 11: 767-773. Dec. 3, 1948. 47.8 G276
- 31299 MOODY, J. D. Look ahead to 1949! *Amer. Poultry J.* 79(12): 8. Dec. 1948. 47.8 Am32
- Hatchery business.
- 31300 NEBRASKA UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Improve market poultry. *Nebr. Agr. Col. Ext. E.C.* 1495, 1 p. Jan. 1949. 275.29 N272Ex
- 31301 NIELSEN, O. Künstliche farbstoffe in unsern eiern? *Geflügelhof* 11: 821-822. Dec. 24, 1948. 47.8 G276
- 31302 NORTON, L. J., HATHORN, S., JR., and BROADBENT, E. Grading will improve the market for Illinois eggs. *Ill. Agr. Col. Ext. C.* 631, 12 p. Oct. 1948. 275.29 IL62C
- 31303 PARNELL, E. D. Poultry outlook. *Amer. Poultryman* 12(2): 19. Jan. 1949. 47.8 So86
- 31304 PHILIPP, P. F. Egg-feed price ratios. *Hawaii. U. Agr. Ext. C.* 257, 8 p. Nov. 1948. 275.29 H412Ac
- 31305 PLATT, F. L. Good 1949 outlook: more interest, more chicks, more business. *Amer. Poultry J.* 80(1): 18, 40. Jan. 1949. 47.8 Am32
- 31306 PLATT, F. L. Progress in New England; the romance of a generation of workers and thinkers. *Amer. Poultry J.* 80(1): 14, 34-39. Jan. 1949. 47.8 Am32
- 31307 POULTRY TRIBUNE. Eggs, chickens, turkeys, broilers, production, consumption, price summary, 1930-47. Mount Morris, 1948? 1 p. folder. 281.347 P862
- 31308 RECORD, P. R. The place of the broiler industry in the Southeast. *Amer. Egg & Poultry Rev.* 10(1): 56-58. Jan. 1949. 47.8 Am38
- 31309 REYNOLDS, H. J. Poultry processing; improvements and changes. *Southeast. Poultryman* 2: 8, 15-17. Jan. 1949. 47.8 So872
- 31310 RINGROSE, A. T. Poultry marketing facilities in Mississippi. *Amer. Egg & Poultry Rev.* 10(1): 66-68. Jan. 1949. 47.8 Am38
- 31311 SANDO, B. How are your public relations? *Poultry Supply Dealer* 26(1): 18, 35. Jan. 1949. 47.8 B11
- 31312 SCHILDWACH, W. Die bedeutung der eier-, geflügel- und honigwirtschaft in den bezirken Oldenburg, Osnabrück und Aurich sowie Bremen (Weser-Ems). Oldenburg, Essich, 1948. 20 p. 281.347 Sch3
- 31313 SEARLS, E. N. Marketing of dressed chickens a profitable enterprise. *Farm Res. [N. Y. State Sta.]* 15: 7. Jan. 1949. 100 N48A
- 31314 SHEFFIELD, C. W. View of the North Carolina poultry situation. *Amer. Egg & Poultry Rev.* 10(1): 17-18. Jan. 1949. 47.8 Am38
- 31315 SILVEIRA, A. H. DA. Preservation of eggs. (In Portuguese.) *Lavoura* 52: 38-39. Sept./Oct. 1948. 9.2 L39
- 31316 SINCLAIR, R. G. The preparation of egg lecithin. *Canad. J. Res. Sect. B, Chem. Sci.* 26: 777-782. Ref. Dec. 1948. 470 C16B
- 31317 SMITH, J. B. History of the turkey. *Farm-er's Mag.* 46: 44. Jan. 1949. 7 C165
- 31318 SMITH, W. L., JR. Alabama's rapidly growing poultry industry. *Amer. Egg & Poultry Rev.* 10(1): 54. Jan. 1949. 47.8 Am38
- 31319 SNYDER, E. S. From range to the table; what proportion can you eat? *Canad. Poultry Rev.* 73(1): 7-10. Jan. 1949. 47.8 C16
- Turkeys and chickens.
- 31320 STALL, C. W. From this plan, more egg money. *Successful Farming* 47: 89-91. Jan. 1949. 6 Su12
- Cooperative marketing of graded eggs.
- 31321 TAPERNOUX, A. Le commerce des oeufs et la répression des fraudes. *Rev. de Méd. Vét. [Toulouse]* 99: 460-462. Oct. 1948. 41.8 R32
- 31322 TAYLOR, J. C. Chick buying tips. *N. J. Farm & Gard.* 20: 44-45. Jan. 1949. 6 G162
- 31323 TOMEY, A. F. Care of hatching eggs; from the moment an egg is laid it becomes a liability—the smallest detail is worth considering. *Poultry World* 84: 63. Jan. 28, 1949. 47.8 P8682



31324 VAN NESS, G. Off-color eggs. *Poultry Sci.* 28(1): 149-150. Jan. 1949. 47.8 Am33P

31325 VOSS, L. A. Business men back growers. Missouri Poultry Council shows how to put "business" in the "poultry business." Sets new pattern for other Midwest states. *Hatchery & Feed* 23(2): 8, 50-53. Feb. 1949. 47.8 H28

31326 WATSON, R. Revolution in poultry [industry]. *Agr. Leaders'Digest* 29(9): 22-23. Oct. 1948. 275.28 Am3

31327 WILLS, R., and others. The packaging and storage of frozen eviscerated poultry. *Ice & Refrig.* 116(2): 62, 66. Feb. 1949. 295.8 Ic2

B. Lowe, H. Slosberg, and G. F. Stewart, joint authors.

31328 WINTER, A. R., and WRINKLE, C. Fast freezing at low temperatures protects frozen egg quality. *U. S. Egg & Poultry Mag.* 55(2): 20-23, 30-32. Feb. 1949. 286.85 Eg3

31329 WOOD, J. B. Poultry a la North Carolina. *Amer. Egg & Poultry Rev.* 10(1): 71-72. Jan. 1949. 47.8 Am38

Industry.

31330 YOUNG, F. L. Steaks sell turkeys. *Amer. Poultry J.* 79(12): 9, 28. Dec. 1948. 47.8 Am32

31331 ZICH, G. E. "Another good year ahead." Cost-price relationship should leave fair margin of profit for poultrymen. *Poultry Tribune* 55(2): 78, 86-89. Feb. 1949. 47.8 P8642

#### RUBBER AND RUBBER SUBSTITUTES

31332 ALLEN, P. J., and EMERSON, R. Guayule rubber; microbiological improvement by shrub retting. *Indus. & Engin. Chem.* 41: 346-365. Ref. Feb. 1949. 381 J825

31333 BIE, G. J. VAN DER. The scientific and technical prospects for Hevea rubber. (In Dutch.) *Econ. Weekblad v. Indonesië* 14: 995-997. Nov. 20, 1948. 280.8 Ec76

31334 BROCK, L. W., SWART, G. H., and OSBERG, E. V. Advances in rubber, 1947-1948. I-II. *India Rubber World* 119: 464-465, 472, 599-603. Ref. Jan.-Feb. 1949. 305.8 In2  
Also in *Rubber Age* 64: 465-481. Ref. Jan. 1949. 305.8 R82

31335 DAWSON, T. R. Powdered rubber. *Rubber Dvlpmts.* 1(6): 1-3. Ref. Dec. 1948. 305.8 R828

31336 DINSMORE, R. P., and FIELDING, J. H. Comparisons of natural and butadiene-styrene rubbers. *India Rubber World* 119: 457-461, 506. Jan. 1949. 305.8 In2

31337 DOGADKIN, B. A. *Khimia i fizika kauchuka* [Chemistry and physics of rubber]. Moskva, Gos. Nauch.-Tekhn. Izd-vo Khim. Lit-ry, 1947. 421 p. 305 D67

31338 KILBOURNE, F. L., JR. Reclaiming synthetic rubber. *Rubber Age* 64(5): 581-589. Ref. Feb. 1949. 305.8 R82

31339 LE BRAS, J., and SALVETTI, A. Les efforts mécaniques ont-ils un effet sur l'oxydabilité du caoutchouc? *Rev. Gén du Caoutchouc* 26(1): 10-14. Ref. Jan. 1949. 305.8 R32  
English summary, p. 44.

31340 LUMSDALE, R. A. Concentration of latex through means of colloids obtained from Amorphophallus. (In Dutch.) *Bergcultures* 17: 142-145. Dec. 1, 1948. 22.5 B45

31341 LUMSDALE, R. A., and SCHERRER, W. The development of rubber utilization in Indonesia. (In Dutch.) *Econ. Weekbl. v. Indonesië* 14: 1063-1067. Dec. 11, 1948. 280.8 Ec76

31342 MARON, S. H., and others. Process for concentrating latex. *Indus. & Engin. Chem.* 41(1): 156-161. Jan. 1949. 381 J825

C. Moore, J. G. Kingston, I. N. Ulevitch, J. C. Trinastic, and E. H. Borneman, joint authors.

31343 PETITHUGUENIN, P. Le caoutchouc d'hévéa devant l'opinion et la technique. *Rev. Gén du Caoutchouc* 26(1): 3-7. Jan. 1949. 305.8 R32  
English summary, p. 44.

31344 PIGNON, L. La situation de l'hévéaculture au Camodge. *Rev. Gén du Caoutchouc* 26(1): 1-2. Jan. 1949. 305.8 R32  
English summary, p. 44.

31345 RUBBER RESEARCH INSTITUTE OF MALAYA. Information cards. *Rev. Kuala Lumpur, Grenier*, 1948. 8 p. 305 R822

31346 SIBIRIAKOFF, I. Aspects théoriques du problème de la concentration du latex. II. *Rev. Gén du Caoutchouc* 26(1): 21-24. Jan. 1949. 305.8 R32  
English summary, p. 44.

31347 SPANGLER, G. P., and MCINDOE, K. G. Full-spiral tapping of *Hevea brasiliensis*. I. *India Rubber World* 119: 592-595, 598. Feb. 1949. 305.8 In2

31348 STEVENS, W. H. Latex processes and potentialities. 6. *Rubber Dvlpmts.* 1(6): 4-8. Ref. Dec. 1948. 305.8 R828

31349 STOLTZ, R. R. Electronics in the rubber industry. *Rubber Age* 64(5): 592-595. Feb. 1949. 305.8 R82

31350 UNITED STATES RUBBER COMPANY. The story of United States Rubber Company. New York, 1947? 62 p. 305.9 Un3S

#### SEEDS

31351 ASSOCIATION OF OFFICIAL SEED ANALYSTS. Proceedings, thirty-eighth annual meeting, Springfield, Illinois, June 29-July 2, 1948. Geneva, N. Y., 1948. 97 p. 61.9 As7

31352 BAGGE-ANDERSEN, A. B. G. The seed situation. (In Danish.) *Andelsbladet* 49: 1445-1447. Dec. 2, 1948. 280.28 An2

31353 BÖHM, F. J. Die gemüsesaatgutvermehrungen. *Landwirtschaft* 1948: 294. Oct. 23, 1948. 19 L235 Austria.

31354 BOYCE, R. D. Maryland seed certification program. *Md. Farmer* 33: 13, 15. Jan. 1949. 6 M362

31355 CASEY, J. E. Analyses of lespedeza seed samples drawn with 9-inch and 30-inch triers. *Assoc. Off. Seed Anal. Proc.* 38: 40-45. 1948. 61.9 As7

31356 CLEMMER, C. W. Six steps leading to better seed. *East. States Coop.* 25(1): 6-7. Jan. 1949. 280.28 Ea7

Cooperative seed service.

31357 EGGLESTON, H. Safe keeping for seeds. *South. Seedsman* 12: 14, 54. Jan. 1949. 61.8 So8

31358 FOLSOM, S. A seedsman looks at new varieties and their distribution. *Crops & Soils* 1(4): 16-17. Jan. 1949. 6 W66

31359 GIMBLE, F. Vo-ag veterans form planting seed association. *Prog. Farmer, Tex. Ed.* 64: 20. Jan. 1949. 6 T311  
Northeast Texas Planting Seed Association.

31360 HEIT, C. E., and CLARK, B. E. Packet seeds—what do they produce? *Farm Res.* [N. Y. State Sta.] 15: 15. Jan. 1949. 100 N48A

31361 HILLER. Die saatgutversorgung im frühjahr 1948. *Neue Mitt. f. die Landw.* 3: 49-50. Feb. 21, 1948. 18 N39  
Germany.

31362 ISELY, D., and STABY, J. Kodachrome slides of seeds for visual instruction purposes. *Assoc. Off. Seed Anal. Proc.* 38: 77-79. 1948. 61.9 As7

31363 JUSTICE, O. L., and DAVIDSON, W. A. Seed testing research under the Research and Marketing Act of 1946. *Assoc. Off. Seed Anal. Proc.* 38: 35-36. 1948. 61.9 As7

31364 LARSEN, L. A few New Year's observations. (In Danish.) *Dansk Frøavl* 32(1): 1-4. Jan. 1, 1949. 61.8 D23

The seed situation in Denmark.

31365 LIBEAU, C. Wholesale prices of field seeds. *Madison, Wis.*, 1948. 19 p. 284.361 L61

31366 MIYASAKI-KEN, JAPAN. AGRICULTURAL EXPERIMENT STATION. Work report for 1939-45; seeds. (In Japanese.) Miyazaki, 1947. 114 p. 107.6 M69Ws

31367 MUNN, M. T. Some significant seed cases. *Assoc. Off. Seed Anal. Proc.* 38: 38-40. 1948. 61.9 As7

31368 NASSO, A. DI. Seed grain production in Ravenna. (In Italian.) *Romagna Agr. e Zootec.* 33(1): 1-2. Jan. 1948. 16 R66

31369 NEW JERSEY. AGRICULTURAL EXPERIMENT STATION. The New Jersey State seed law. N. J. Agr. Expt. Sta. C. 520, 8 p. Sept. 1948. 100 N46S

31370 NILSSON-LEISSNER, G. Important news of general interest; changes in the seed control regulations. (In Swedish.) *Lantmannen* 33: 28. Jan. 8, 1949. 11 L234

31371 NORTH CAROLINA. DEPT. OF AGRICULTURE. STATE SEED LABORATORY. Report, 1945/46-1947/48. 1948. 45 p. 2 N81B



31372 OLDAKER, C. E. W., and WILSON, J. H. Seed potato improvement and certification. Tasmanian J. Agr. 19: 190-193. Nov. 1948. 23 T182T

31373 PFAENDER, W. C. Seed testing and seed laws. Assoc. Off. Seed Anal. Proc. 38: 36-38. 1948. 61.9 As7

31374 U. S. BUR. OF AGRICULTURAL ECONOMICS. Acreage and production of vegetable seeds in 1947 and 1948. Washington, 1949. 8 p. 1.941 S3V52

31375 U. S. PRODUCTION AND MARKETING ADMIN. A partial list of firms handling seed testing equipment and supplies. Washington, 1948. 10 p. 1.956 G76P25

#### SUGAR AND SIRUPS

31376 AHLFELD, H. The European sugar situation. So. African Sugar J. 32: 661, 663, 665. Nov. 1948. 65.8 So8

31377 ASSOCIATION OF SUGAR PRODUCERS OF PUERTO RICO. Annual report, 1947. 16 p. 65.9 As7A

31378 ÅSTRAND, H. Excellent result of the 1948 sugar beet growing. (In Swedish.) Lantmannen 33: 19, 28. Jan. 8, 1949. 11 L234  
Prices, acreage, harvesting and yield.

31379 BERTUZZI, A. The problem of cheap sugar: is it advantageous to cultivate beets in Italy? (In Italian.) Alimenti 4: 188-189. Sept./Oct. 1948. 389.8 AL44

31380 BOND, G. Sugar, what next? Raleigh? 1948. 6 p.-folder. 286.365 B64

31381 BOURBAKIS, C. J. Aspectos de la tecnología azucarera. Rev. de Agr. de Puerto Rico 39(1): 31-39. Jan./June 1948. 8 R325

31382 CASANOVA, J. M. Intereses del azúcar: mentiras convencionales [Cuba]. Rev. Nac. de Cien. Polít.-Econ.-Sociales 8(86): 5-6. Jan. 1949. 280.8 R3295

31383 CLEMENT, M. Notre industrie des produits de l'érable. Les érablières du Québec produisent 85% du rendement global au pays. Abeille et l'Érable 17: 107-109. Nov. 1948. 424.8 Ab32

31384 COLOMBANI, G. Sugar and marmalades. (In Italian.) Alimenti 4: 189-190. Sept./Oct. 1948. 389.8 AL44

31385 COLSON, M. La situation actuelle de la production sucrière des Antilles. Marchés Colon. 5: 219, 221, 223. Jan. 29, 1949. 286.8 M33

31386 CUBA ECONOMICA Y FINANCIERA. Anuario azucarero de Cuba (Cuba sugar year book), 1948. Habana, 1948. 232 p. 281.3659 C89

31387 DIÉGUES JÚNIOR, M. Sugar industry in Brazil in the 16th and 17th centuries. IV. (In Portuguese.) Brasil Açucareiro 32: 360-363. Sept./Oct. 1948. 65.8 B73

31388 DIONNE, G. La betterave à sucre [Quebec]. B. des Agr. 45(1): 6-7. Jan. 1949. 7 B872

31389 DODDS, H. H. Some aspects of the sugar industry of South Africa. So. African Sugar J. 32: 757, 759, 761, 763, 765, 767. Dec. 1948. 65.8 So8

31390 FLOOD, A. E., HIRST, E. L., and JONES, J. K. N. Quantitative analysis of mixtures of sugars by the method of partition chromatography. I. Standardisation of procedure. Chem. Soc. J. 1948: 1679-1683. Oct. 1948. 382 L84J

31391 HALLEMA, A. Van biet tot suiker: J. P. van Rossum als suikerindustrieelkoopman en organisator. [From beets to sugar: J. P. Van Rossum as sugar industrialist and organizer]. Baarn, Schuyt, 1948. 291 p. 66 H15

31392 HUDSON, R. A., JR. Mechanical corn syrup system aids speciality food plants. West. Canner & Packer 41(1): 35, 39. Jan. 1949. 286.83 W522

31393 LAGUARIGUE, L. DE. La culture de la canne à sucre aux Antilles Françaises. Marchés Colon. 5: 209-211. Jan. 29, 1949. 286.8 M33

31394 LAMBORN, O. H. Higher or lower sugar prices? Sugar Beet 7(8): 14-15, 29. Dec. 1948. 66.8 Su34B

31395 LEWIS, J. C. ECA in Taiwan. China Weekly Rev. 112: 35-36. Dec. 11, 1948. 280.8 C445  
The sugar industry.

31396 LOCSIN, C. L. The Philippine sugar industry. Internatl. Sugar J. 51: 26. Jan. 1949. 65.8 In8

31397 LULEY, A. H., and OTHMER, D. F. New refining process. (Abs.) Sugar Indus. 2(6): 36-37. Nov./Dec. 1948. 65.8 Su332  
Text also in Spanish.

31398 MAIER, E. A., and HANDCOCK, J. M. Calcium carbonate from ground oyster shells for the settling of cane juice. Sugar J. 11(8): 13. Jan. 1949. 65.8 Su391

31399 MAN, E. D., and MAN, F. World sugar production and consumption. (Sum.) So. African Sugar J. 32: 667. Nov. 1948. 65.8 So8

31400 MENDES DE GODOY, J. A clarificação da garapa, nas usinas e nos pequenos engenhos de açúcar [The clarification of sirup in factories and small sugar refineries]. São Paulo, Tipografia Brasil, 1947, i. e., 1948. 31 p. 65 G54

31401 OWEN, W. L., and BIENVENU, R. J. Sucrose losses in sugar manufacture resulting from the activities of thermophilic micro-organisms. Internatl. Sugar J. 51: 22-24. Ref. Jan. 1949. 65.8 In8

31402 PIKE, H. H., & SON. Sugar 1948. New York, 1949. 1 p., folder. 286.3659 P63  
Statistics.

31403 PREUSS, O. Von der rübe bis zum zucker. Saat u. Ernte 3(11): 1, 2, 4. Nov. 1948. 18 Sa12

31404 RAO, M. N., SUBBIAH, R., and COLLEGE, MRS. A. V. N. Recovery of wax from sugar factory press cake. J. Sci. & Indus. Res. 6B: 178-180. Ref. Dec. 1947. 47.5 J82

31405 REICH, G. T. Yeast production in molasses distilleries. Sugar Indus. 2(6): 10-19. Nov./Dec. 1948. 65.8 Su332

Text also in Spanish.

31406 SCHOENFELD, S. Historia: lucha entre la caña y la remolacha. Rev. Nac. de Cien. Polít.-Econ.-Sociales 8(86): 15-16. Jan. 1949. 280.8 R3295

31407 SICÉ, H. La fabrication du rhum et du sucre [Martinique]. Marchés Colon. 5: 213, 215, 217. Jan. 29, 1949. 286.8 M33

31408 TRIBOUT, R. Le marché du sucre. Coopération 18: 10-11. Dec. 1948. 280.28 C7845  
France.

31409 U. S. COMMODITY CREDIT CORPORATION. Cuban sugar for the Army, 1948 fiscal year. Washington? 1948. 3 p. 1.957 C89  
Statistics.

31410 UNITED STATES CUBAN SUGAR COUNCIL. Sugar facts and figures. New York, 1948. 159 p. 286.365 Un36

31411 VÁZQUEZ, E. A. Industrial utilization of sugar cane tops and foliage. Sugar Indus. 2(5): 16, 18, 20, 24, 41, 50. Sept./Oct. 1948. 65.8 Su332  
Text also in Spanish.

31412 VIVEIROS, J. DE. Sugar seen in the periodical "O Auxiliador da Indústria Nacional." (In Portuguese.) Brasil Açucareiro 32: 366-367. (Concl.) Sept./Oct. 1948. 65.8 B73

31413 VOGEL, F. Azúcar en Europa. Cuba Econ. y Financiera 23(273): 29. Dec. 1948. 286.8 C892

#### TOBACCO

31414 ARDITTI, R. La nicotine. Rev. des Tabacs 23(184): 24-25. 1948. 69.8 R325

31415 BARTOLUCCI, A. New packing equipment for oriental tobacco: the Super-Iso Press or S. I. P. Press. (In Italian.) Tabacco 52: 341-350. Nov. 1948. 69.8 T115

31416 BRIDGFORTH, R. B. How Bright tobacco program functions. South. Planter 110: 7, 51. Jan. 1949. 6 So89

31417 CLARK, C. M. Tobacco auction headaches. South. Agr. 78, i. e., 79: 9, 19. Jan. 1949. 6 So83

31418 COLOM, U. E. Optimistic future seen in Puerto Rico's trade as government takes hold of production. Tobacco [New York] 127(27): 11, 32-33, 35, 37-38. Dec. 30, 1948. 286.89 T552

31419 COOK, F. T. South Africa produces sufficient Turkish tobacco to meet needs. Foreign Trade 5: 15-18. Jan. 1, 1949. 286.8 C162

31420 COOPER, J. F. Called "brown gold" in the old days. South. Agr. 78, i. e., 79: 11. Jan. 1949. 6 So83  
Shade tobacco situation.

31421 FEATHERSTON, H. B. El tabaco en el Ecuador. Manabí, Ecuador. Consorcio de Cent. Agr. B. 11(56): 17-22. Oct./Dec. 1948. 9.5 M31

31422 FERRIÈRES, M. Le tabac en Indochine. Rev. des Tabacs 23(184): 26-27. 1948. 69.8 R325  
History.



- 31423 JACKSON, R. E. Pit barns for fire cured tobacco on Native Trust Land in the Central Province. Nyasaland Agr. Q. J. 7: 72-77. Oct. 1948. 24 N983
- 31424 JONGENS, R. Reconstruction of Besoeiki tobacco culture. (In Dutch.) Econ. Weekblad v. Indonesië 14: 992-994. Nov. 20, 1948. 280.8 Ec76
- 31425 MACRAE, N. A. Canada can grow us 40,000,000 lb. of leaf—dollars permitting. Tobacco [London] 69(818): 58-59, 121. Feb. 1949. 286.89 T553
- 31426 POLCHI, G. Consigning tobacco in a green state. (In Italian.) Tobacco 52: 329-333. Nov. 1948. 69.8 T115
- 31427 SOUTH CAROLINA. DEPT. OF AGRICULTURE. South Carolina 1948 tobacco report. 1949? 20 p. 281.3699 So82
- 31428 STRONG, T. H., and CAMPBELL, J. Tobacco growing in Australia; prospects for expansion. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 1(4): 9-12. Oct. 1948. 281.9 Au73
- 31429 U. S. PRODUCTION AND MARKETING ADMIN. Annual report on tobacco statistics, 1948. U. S. Prod. and Mktg. Admin. CS-31, 71 p. Dec. 1948. 1.9422 A8C732
- 31430 WALTERS, F. R. What of tobaccos? Mag. Wall St. 83: 516-517, 539-540. Feb. 12, 1949. 286.8 M27
- 31431 WHEELER, R. G., CLARENBACH, F. A., and DEWEY, A. W. Factors in the outlook for Connecticut Valley tobacco. Conn. (Storrs) Agr. Expt. Sta. B. 256, 39 p. June 1948. 100 C76S
- 31432 WILLIAMS, R. Australia's big plan; 100 new tobacco farms to feed 32 million lb. demand. Tobacco [London] 69(817): 58-59. Jan. 1949. 286.89 T553

## MISCELLANEOUS PRODUCTS

- 31433 BROWNING, B. L., and others. The polarography of tannins. Amer. Leather Chem. Assoc. J. 44(1): 30-43. Jan. 1949. 303.9 Am32
- W. W. Pigman, R. L. Leaf, Jr., G. Steinert, and J. Wethern, joint authors.
- 31434 DIEUZEIDE, R., and NOVELLA, M. Essai sur la technique des conserves de poissons et de crustacés en boîtes métalliques. Algeria. Insp. Gén. de l'Agr. Docs. et Renseign. Agr. B. 137, 510 p. 1948. 24 AL34
- 31435 GHIGI, E. Determination of marrubin in extract and sirup of hoarhound. (In Italian.) Bologna. Facoltà di Chim. Indus. B. Sci. 6: 40-41. July/Dec. 1948. 385 B63
- 31436 GONZÁLEZ MARÍN, F. La industria espartera. Murica, Spain. Cám. Ofic. Agr. B. 69/70: 7-10. July/Aug. 1948. 15 M93
- 31437 HILBERT, F. L. The technology of tanning: wattle bark. Leather & Shoes 117(2): 20-21. (Cont.) Jan. 8, 1949. 303.8 H53
- 31438 JACOBSEN, I. A. Whale meat—Norway expands its production. Foreign Agr. 13: 21-22. Jan. 1949. 1.9 Ec7For
- 31439 JOHNSON, W. J. B. A new seagoing whale meat cannery. Food Manufacture 24(1): 17-20. Jan. 1, 1949. 389.8 F736
- 31440 LANTZ, A. W. It recovers edible products from fish scrap. Food Indus. 21: 171-172. Feb. 1949. 389.8 F737
- 31441 LEMON, J. M. Fish refrigeration. Food Indus. So. Africa 1(8): 28-30. Dec. 1948. 389.8 F7372
- 31442 MITCHELL, T. Frozen jumbo shrimp a specialty at Biloxi. Canner 107(20): 12, 14. Nov. 13, 1948. 286.83 C16
- 31443 RUMBAUT YANES, B. Cooperativa de pescadores de Cienfuegos. Cuba. Min. de Agr. Rev. (ser. 6) 31(1): 43-48. Jan./June 1948. 8 Ag88Re
- 31444 SCHAUDER, R. Hop production in South Africa. Food Manufacture 23: 463-464. Oct. 1, 1948. 389.8 F736
- The industry.
- 31445 SUPREME COMMANDER FOR THE ALLIED POWERS. NATURAL RESOURCES SECT. Canned crab industry of Japan. Supreme Commander Allied Powers. Nat. Resources Sect. Rpt. 109, 50 p. 1948. 280.9 AL5
- 31446 WEVER, J. DE. Le houblon. Petit J. du Brasseur 5: 892-894. Nov. 26, 1948. 390.8 P44
- 31447 WILCOX, F. A., TENNEY, R. I., and STEWART, T. J. A study of hop sampling. Amer. Soc. Brewing Chem. Proc. Ann. Mtg. 1948: 63-67. 390.9 Am321
- Discussion, p. 67-68.

## AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

## GENERAL

- 31443 BAQUE, Z. En Gascogne gersoise; deux siècles d'histoire économique. II. Terre d'Oc 30: 417-422. Oct. 1948. 14 Ar5
- 31449 ELLIS, H. S. A survey of contemporary economics. Philadelphia, Amer. Econ. Assoc., 1948. 490 p. 280 EL56
- 31450 GRANT PARISH, LA. PLANNING BOARD. Grant Parish resources and facilities survey. Pub. in co-operation with State of Louisiana, Dept. of Public Works, Planning Division. Baton Rouge? 1947. 138 p. 280.7 G76
- Chapters on land use, agriculture, and forestry.
- 31451 HALLIWELL, A. N. The tide of prosperity; what can we do about it? Tasmanian Fruitgrower & Farmer 24(303, i. e., 304): 31. Oct. 1948. 23 T185
- 31452 HARRIS, S. E. The European Recovery Program. Cambridge, Harvard U. Press, 1948. 309 p. 280.17 H24
- 31453 HIBBARD, B. H. Agricultural economics. New York, McGraw-Hill, 1948. 441 p. 281.12 H52
- 31454 ITALY. ISTITUTO NAZIONALE DI ECONOMIA AGRARIA. The situation of agricultural economics in Italy. Roma, Edizioni Italiane, 1948. 47 p. 281.176 It12
- 31455 JESACHER, C. Almwirtschaftsförderung; organisation und verbesserungsmassnahmen. Kärntner Bauer 98: 376-377. Nov. 15, 1948. 19 K14
- 31456 LIEVANO, A. Los llanos del Tolima y su significado en la economía nacional. Rev. Nac. de Agr. 42(514): 28-31. Feb. 1948. 9.4 R32
- 31457 NEW YORK STATE COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. Cornell bulletins on economic subjects. N. Y. Agr. Col. A. E. 429re, 48 p. Jan. 1949. 281.9 C81
- 31458 POTOMAC GRANGE NO. 1, PATRONS OF HUSBANDRY. Labor-management relations policy that the National Grange should support. Washington, 1948. 18 p. 283 P842
- 31459 SANDERS, P. D. The interdependence of agriculture and industry. Va. Fruit 37: 146-149. Jan. 1949. 81 V81B
- 31460 SERPIERI, A. La struttura sociale dell'agricoltura italiana [The social structure of Italian agriculture]. Roma, Edizioni Italiane, 1948? 354 p. (Italy Istituto Nazionale di Economia Agraria. Studi di Economia Agraria) 281.176 Se6S
- Economics.
- 31461 STOCKBURGER, S. Bringt uns die freie wirtschaft das heil? Württemb. Wchnbl. f. Landw. 115: 406-407. Dec. 25, 1948. 18 W96
- 31462 STOCKBURGER, S. Das zeitalter der verwilderten wirtschaftsordnung. Württemb. Wchnbl. f. Landw. 116: 2-3. Jan. 1, 1949. 18 W96
- 31463 UNION OF SOUTH AFRICA. DEPARTEMENT VAN LANDBOU. Agro-ekonomiese opname van die Unie. [Agricultural-economic aspects of the Union]. So. Africa. Dept. van Landbou. Pam. 270, 183 p. 1947. 24 So84Pd
- 31464 U. S. DEPT. OF STATE. Outline of European Recovery Program; draft legislation and background information, submitted by the Department of State for the use of the Senate Foreign Relations Committee, December 19, 1947. Washington, 1948. 131 p. (80th Cong., 1st sess. Com. Print.) 150.1 Ou82
- 31465 U. S. ECONOMIC COOPERATION ADMIN. The European Recovery Program; information for Americans going abroad. Ed. 2. Washington, 1948. 16 p. 173.2 Ec72E
- 31466 U. S. PRESIDENT'S COMMITTEE ON FOREIGN AID. European recovery and American aid. Washington, 1947. 3 pts. in 2 v. 173 P927

## AGRICULTURAL FINANCE

- 31467 DAVIS, C. C., and FRANCES, D. R. The farmer's financial position in 1949. Impl. & Tractor 64 (1): 70-71, 144, 146, 150-151, 154-155, 167. Jan. 8, 1949. 58.8 W41
- 31468 FALQUE-BEZAURE. Agriculture et fiscalité. Réveil Agr. 57: 371-372. Dec. 15, 1948. 14 R322
- France.



31469 LUTTRELL, C. B. The use of capital to increase farm returns in Johnson County, Illinois. Ill. Farm Econ. 162/163: 761-765. Nov./Dec. 1948. 275.28 IL5

31470 MALACARNE, F. Classification of appraisal methods. (In Italian.) Genio Rur. 11: 415-420. Dec. 1948. 281.8 R522

31471 RIBÉREAU, F. L'avant-crise. Colon Franç. de Tunisie 59(2081): 1. Jan. 8, 1949. 24 C712

31472 ROTHERMEL, F. Wir wollen die gleichberechtigung! Landw. Wechnbl. 138: 361-362. Nov. 13, 1948. 18 L2338

Effects of the currency reform in Germany.

31473 STEAD, W. H. Your stake in fiscal policy; farm prices depend a lot on how business is going. We're just becoming aware of how important fiscal policy is in shaping what happens to business activity and our price level. Farm Policy Forum 2(1): 29-33. Jan. 1949. 281.8 F2274

31474 TOSTLEBE, A. S., and others. The balance sheet of agriculture, 1948. U. S. D. A. Misc. P. 672, 38 p. 1948. 1 Ag84M

F. L. Garlock, R. J. Burroughs, H. C. Larsen, H. T. Lingard, L. R. Hudson, and S. L. Yarnall, joint authors. Assets and claims.

31475 U. S. TREASURY DEPT. SAVINGS BONDS DIV. Financial security for farm families. Washington, 1948. 8 p.-folder. 151.98 F49

31476 WHEELER, O. P. Monetary and fiscal policy. West. Farm Econ. Assoc. Proc. (1948)21: 57-66. 280.9 W527P

### Credit

31477 ACEVAL, A. Economía hipotecaria: necesidad colectiva [Cuba]. Rev. Nac. de Cien. Polít.-Econ.-Sociales 8(86): 18. Jan. 1949. 280.8 R3295

31478 ALMEIDA, D. Agricultural credit in a sugarcane region of Bahia. (In Portuguese.) Brasil Açucareiro 32: 348. Sept./Oct. 1948. 65.8 B73

31479 AMERICAN BANKERS ASSOCIATION. AGRICULTURAL COMMISSION. Bank credit for American agriculture 1948. n. p., 1948? 20 p. 284.9 Am322

Statistics.  
31480 AMERICAN BANKERS' ASSOCIATION. AGRICULTURAL COMMISSION. Banking and agriculture; A.B.A.'s Washington activities, 1947. New York? 1947? Various pagings. 284.2 Am33Ba

31481 BAILEY, C. W. Credit for agriculture. Banking 41(7): 108-109. Jan. 1949. 284.8 Am3  
Excerpts in Hoosier Banker 33(1): 12. Jan. 1949. 284.8 H76

31482 BANK OF NEW SOUTH WALES. Annual report and balance sheet, 1947/48. 1948. 23 p. 284.9 B2295A

31483 BROWN, A. G. Pitfalls in agricultural lending. Banking 41(8): 40-41. Feb. 1949. 284.8 Am3

31484 BROWN, A. G. "Rain or shine" farm credit; country banks: where they stand in financing agriculture. Banking 41(8): 60. Feb. 1949. 284.8 Am3

31485 BUNBURY, E. J. Agricultural Mortgage Corporation, Limited; continued expansion; increased demand for credit. London, 1948. 4 p. 284.2 B88

31486 CHILE. CAJA DE CREDITO HIPOTECARIO. Memoria No. 92 correspondiente al ejercicio anual de 1947. Santiago, 1948. 57 p. 284.9 C122

31487 COFFMAN, D. H. Financing soybean inventories with field warehouse receipts. Soybean Digest 8 (12): 14. Oct. 1948. 60.38 So9

31488 DANFORTH, D. Incomes of farmers increase when supplementary feeds are purchased. Bankers Monthly 66(1): 14. Jan. 1949. 284.8 B223

### Credit.

31489 DAVIS, C. C. The banker and the farmer. n. p., 1948. 13 p. 1.94 Ad4Da

31490 DESAI, M. N. Linking up credit with marketing in Bombay Province. Bombay Co-op. Q. 32: 20-27. July 1948. 280.28 B63

31491 DÜRING, VON. Die selbstentschuldung der landwirtschaft. Neue Mitt. f. die Landw. 3: 231. Aug. 5, 1948. 18 N39  
Germany.

31492 FERGUSON, E. The modern farm loan. Equitable Soc. Farm Loan News, 1948, sup., 7 p. Dec. 1948. 284.28 F2262

31493 HAYES, G. G., and HENDRY, G. F. Farm indebtedness. Scot. Dept. Agr. Farm Econ. 16: 2-6. Autumn 1948. 281.9 Sco3F

31494 INTER-AMERICAN DEVELOPMENT COMMISSION. Report of the technical delegate of the Inter-American Development Commission on the establishment of the Technical Office of Credit Orientation and an agricultural credit system in the Republic of Ecuador. Washington, 1947. 22 p. 284.2 In84

31495 MERRILLS, V. Improper corporate action can cause delay in processing [REA] loan applications. Rur. Electrification Mag. 7(5): 34, 46. Feb. 1949. 335.8 N21

31496 NOWELL, R. I. The farm mortgage outlook. Appraisal J. 17(1): 53-60. Jan. 1949. 282.8 Am3

31497 QUEENSLAND. AGRICULTURAL BANK. Annual report on the operations of the Agricultural Bank, 1947/48. Brisbane, 1948. 16 p. 284.29 Q3

31498 REES, C. H. The stockman and his banker. Rec. Stockman, Ann. Ed. 59(52): 66, 71. Dec. 23, 1948. 49 D43

31499 SAVIDGE, E. T., JR. Lending policies change with changing conditions. Banking 41(7): 64, 122. Jan. 1949. 284.8 Am3  
Rural banks.

31500 SERPIERI, A. Financing of reclamation. (In Italian.) Gior. di Agr. 58: 331. Nov. 28, 1948. 16 St1G

31501 SEVERSON, H. Bankers help make star farmers. Banking 41(7): 65. Jan. 1949. 284.8 Am3

31502 TREFZ, R. W. A credit policy for farm equipment financing. Mid-West. Banker 43(1): 11-13. Jan. 1949. 284.28 B222

Also in Banking 41(7): 108. Jan. 1949. 284.8 Am3

31503 U. S. COMMODITY CREDIT CORPORATION. Report, 1947/48. Washington, 1948. 14 p. 1 C731

31504 U. S. FARM CREDIT ADMIN. Loans by production credit associations. U. S. Farm Credit Admin. C. 3, rev., 7 p.-folder. Aug. 1948. 166.2 C49

31505 U. S. FARM CREDIT ADMIN. Revised rules and regulations for production credit associations organized under the Farm Credit Act of 1933. Washington? 1949? 9 p. 1.955 A2R32

31506 U. S. FARMERS HOME ADMIN. Status of active farm and home plan operating loan families in States under the jurisdiction of the Massachusetts office, according to cash farm income in 1947. Washington? 1948. 1 p. 1.949 St2Mss

31507 U. S. FARMERS HOME ADMIN. BUDGET DIV. Status of active farm and home plan operating loan families in Connecticut, according to cash farm income in 1947. Washington? 1948. 1 p. 1.949 St2C

Similar reports for other States.

31508 WATSON, R. M. A long range farm loan program. Burroughs Clearing House 33(4): 26-27, 61-63. Jan. 1949. 284.8 B94

31509 WILCOX, R. W. The Farmers Home Administration farm ownership program in Iowa. n. p., 1947. 100 p. 282.027 W64

Thesis—Iowa State College.

31510 ZEHNER, L. A. Credit practices of feed dealers. Feedstuffs 21(4): 32-36, 38-40, 42. Jan. 22, 1949. 286.81 F322

### Income

31511 CALIFORNIA STATE CHAMBER OF COMMERCE. RESEARCH DEPT. California's cash farm income, 1940-1947. Calif. State Chamber of Com. Res. Dept. Econ. Survey Ser. 1948/49, Rpt. 35, 1 p. Jan. 13, 1949. 252.09 C129

31512 CALIFORNIA STATE CHAMBER OF COMMERCE. RESEARCH DEPT. Cash farm income from crops in California, 1940-1947. Calif. State Chamber of Com. Res. Dept. Econ. Survey Ser. 1948/49, Rpt. 36, 1 p. Jan. 19, 1949. 252.09 C129

31513 CASH FARM income in the Fifth District. Fed. Reserve Bank Richmond. Monthly Rev. 1948: 3-8. Dec. 1948. 284.8 F31R

31514 COLLISSE, C. F. In Wealth Belt farm cash zooms to 4 1/4 billion. Com. West 97(5): 7, 23. Jan. 29, 1949. 286.8 C733

31515 CUNNINGHAM, L. C. Incomes on commercial dairy farms by regions in New York 1925-1945. N. Y. Agr. Col. Farm Econ. 165: 4254-4256. Dec. 1948. 280.8 C812



31516 HOVELAND, N. Maybe your farm is big enough. *Successful Farming* 46(11): 81, 82, 84-85. Nov. 1948. 6 Su12

Incomes from small farms.

31517 PASTORE, E. Agriculture, agrarian income and ordinary income on personal property. (In Italian.) *Risveglio Agr.* 7: 355-357. Oct. 15/31, 1948. 16 R49

#### Inflation

31518 BOWEN, H. R. The end of inflation may be in sight; some factors that may affect price levels in 1949. *Milk Plant Monthly* 38(1): 66-68. Jan. 1949. 44.8 C864

31519 MAXTON, J. L. Are farmers responsible for inflation? *Va. Farm Econ.* 116: 1237-1238, 1242-1243. Nov. 1948. 275.29 V813

#### Insurance

31520 BERTHAULT, P. Songeons à la sécurité sociale. *Rev. Agr. de l'Afrique du Nord* 46: 548-549. Nov. 5, 1948. 80 R326

31521 BOTTS, R. R. Farm mutuals: their competitive position. *Mutual Ins. J.-News* 44(2): 6-15. (To be cont.) Feb. 1949. 284.68 M982

31522 HARDING, F. W. Reduce risk by insuring livestock. *Breeder's Gaz.* 114(2): 22, 39. Feb. 1949. 49 B74

31523 HESTON, R. E. Crop drying equipment requires careful underwriting practices. *Mutual Ins. B.* 35(9): 23-26. Sept. 1948. 309 H39

31524 LAFON, F. L'atlas de la mutualité agricole en Afrique du Nord. *Cahiers des Ingén. Agron.* 3(39/40): 29-30. Sept./Oct. 1948. 14 C112

31525 MUÑOZ ZUNIGA, F. La crisis del seguro contra el pedrisco y sus soluciones. *Ager* (ser. 2) 4: 200-204. (Concl.) Oct. 1948. 33.23 Ag3

31526 QUINONES CHACON, B. Informe sobre la encuesta efectuada por la Corporación de Seguro del Café en relación al seguro cafetalero. *Rev. de Agr. de Puerto Rico* 39(1): 40-43. Jan./June 1948. 8 R325

31527 RODOT, M. Allocation aux vieux travailleurs. *Jura Agr. (n. s.)* 1948(14): 1. Nov. 15, 1948. 14 J97

31528 TAYLOR, A. W. Nat'l health program under social security would leave out farmers. *Union Farmer* 4(1): 5. Jan. 1949. 280.28 Un35

31529 TOUSSAINT, A. Que devient le statut de la mutualité agricole? *Acad. d'Agr. de France. Compt. Rend.* 34: 940-941. Nov. 24/Dec. 1, 1948. 14 P215Bc

31530 U. S. FEDERAL CROP INSURANCE CORPORATION. Bean crop insurance for 1949; summary of major program provisions. Washington, 1949. 3 p. 1.952 B37

31531 U. S. FEDERAL CROP INSURANCE CORPORATION. Report of the manager, 1947/48. Washington, 1948. 40 p. 1 C88R

31532 U. S. FEDERAL CROP INSURANCE CORPORATION. Sales campaign suggestions for use by county offices. Washington? 1948. 37 p. 1.952 Sa33

31533 U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 tobacco Federal crop insurance program. Washington? 1948. 10 p. 1.952 F11

31534 U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 wheat. Washington? 1948. 11 p. 1.952 F314

31535 U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook; monetary coverage insurance. Washington? 1948. 12 p. 1.952 W564

31536 ZIMMERMAN, C. Meet farm risks with up-to-date insurance. *Capper's Farmer* 60(2): 12, 40. Feb. 1949. 6 M693

#### Taxation

31537 DEMPSEY, T. R. Income tax; methods of accounting for stockgrowers. *West. Livestock J.* 26 (59): 116, 120, 122. Oct. 15, 1948. 6 F2278

31538 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Farmers' income tax. *Rev. ed.* London, H. M. Stationery Off., 1948. 24 p. 284.5 G799

31539 HENSEL, E. L. Taxation of cooperatives. Chicago, Natl. Assoc. of Coop., 1948. 16 p. 284.5 H39

31540 ISHIDA, J. 1949 [income] tax guide for Hawaiian farmers. Hawaii. U. Agr. Ext. C. 259, 25 p. Nov. 1948. 275.29 H412Ac

31541 JAUMES, L. Les impôts et l'agriculture. *Bouches du Rhone Agr.* 22(993): 3-4. Jan. 1, 1949. 14 B662

31542 MEINERS. Kampf der hohen hundesteuer. *Kleintier-Zücht. Tierbörse* 3(46): 9-10. Oct. 25, 1948. 49 K672

31543 MERZ. Die weinsteuerrhöhung muss fallen! *Österr. Weinztg.* 3: 421. Dec. 25, 1948. 390.8 Os7

31544 MONATT, S. M. 1949 farmers income tax on 1948 income, including filled-in forms, check lists, examples. New York, Com. Clearing House, Inc., 1948. 192 p. 284.59 M74

31545 NATIONAL ASSOCIATION OF COOPERATIVES. True tax position of cooperatives under the Federal income tax law and Federal Constitution. Supplemental statement of Eugene L. Hensel, counsel, before the Ways and Means Committee of the House of Representatives, Eightieth Congress. Chicago, 1948? 31 p. 284.5 N2195Ta

31546 NEW HAMPSHIRE. UNIVERSITY. COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS. EXTENSION SERV. The farmer's 1948 income tax. *N. H. Agr. Col. Ext. B.* 89, 16 p. Oct. 1948. 275.29 N45

31547 NORTH CENTRAL FARM MANAGEMENT EXTENSION COMMITTEE. The farmer's 1948 income tax. *Ky. Agr. Col. Ext. C.* 461, 16 p. 1948? 275.29 K415

31548 NORWAY. STATISTISK SENTRALBYRÅ. Répartition d'impôts. (In Norwegian.) Oslo, 1948. various paging. (Norges Offisielle Statistikk X. 170) 284.59 N83

Includes taxation of farmers and farm labor.

31549 PATERNO, L. Taxes on inheritances and gifts. (In Italian.) *Agr. del Mezzogiorno* 4(14): 1. Nov. 25, 1948. 16 Ag8254

31550 PRENTICE-HALL, INC. Directory of tax deductions, year-round savings in personal and company taxes. Rev. ed. New York, 1948. 27 p. 284.5 P91D

Includes losses as gentlemen farmers.

31551 SCHURCH, R. Eine einfache methode zur schätzung des ertragszinses landwirtschaftlicher liegenschaften. *Grüne* 76: 1203-1205. Nov. 12, 1948. 17 Sch9

31552 SIVIERO, A. The extraordinary progressive tax on inheritances. (In Italian.) *Agr. Bresciana* 1(44): 1. Nov. 3, 1948. 16 Ag89

Also in *Agr. Veneziana* 4(21/22): 2. Nov. 1/30, 1948. 16 Ag8264; and in *Voce dei Campi* 3(30): 1. Nov. 20, 1948. 16 V852

31553 STEDING. Landwirtschaft und lastenausgleich. *Neue Mitt. f. die Landw.* 3: 479-480. (To be cont.) Dec. 25, 1948. 18 N39

Germany.

31554 STRUNZ, H. Wichtige neugkeiten aus dem steuerwesen. *Wiener Bauernbündler* 1(18): 10. Dec. 25, 1948. 19 W632

31555 UGGLAS, C. A. How large is the [tax] deduction allowed for cost of keeping a car? (In Swedish.) *Lantmannen* 33: 51-52. Jan. 22, 1949. 11 L234

31556 VICIÉN, J. Consideraciones sobre tasación de inmuebles rurales. *Rev. de Econ. Argentina* 47: 252-255. July/Aug. 1948. 280.8 R325

#### AGRICULTURAL LABOR AND WAGES

31557 ADAMS, R. L. Impact of unionization of farm workers upon farm organization and management. *West. Farm Econ. Assoc. Proc.* (1948) 21: 138-146. 280.9 W527P

31558 BARDAJI, A. El servicio de Guardería Rural de las Hermandades. *Agricultura [Madrid]* 17: 515-517. Nov. 1948. 15 Ag84

31559 BECKERICH, A. Les récents relèvements des salaires agricoles. *Rustica* 22: 12. Jan. 2, 1949. 14 R92

31560 BINSWANGER, E. Die regelung des dienstverhältnisses landwirtschaftlicher dienstboten. *Schweiz. Landw. Monatsh.* 1948: 365-382. Nov. 20, 1948. 17 Sch93

31561 BLACKSTOCK, H. E. Labor problems at strawberry time. *Employment Security Rev.* 15(12): 10-11, 22. Dec. 1948. 158.3 Em72

31562 BLOOMFIELD, H. Less time for chicken chores. *Country Gent.* 119: 19, 93-95. Jan. 1949. 6 C833



- 31563 BORGOMANERO, F. Notes on the subject of unemployment in agriculture. (In Italian.) *Agr. delle Venezie* 2: 573-589. Ref. July/Aug. 1948. 16 Ag826
- 31564 DEBOUDAUD, J. La question de la main-d'œuvre et l'avenir démographique de la Martinique. *Marchés Colon.* 5: 189-191. Jan. 29, 1949. 286.8 M33
- 31565 DONINI, A. Syndicates and workers. (In Italian.) *Mezzogiorno Agr.* 4(38): 1. Oct. 3, 1948. 16 M57 Italy.
- 31566 EARLE, W. A time and travel study of poultry house chores in New York, 1946-47. N. Y. Agr. Col. *Farm Econ.* 165: 4262-4264. Dec. 1948. 280.8 C812
- 31567 FLACH, G. Viticulture: économies de main-d'œuvre. *Voix des Colons* 30(1481): 1. Dec. 6, 1948. 24 V85
- 31568 FONTAINE, R. Fixation des salaires des vendangeurs. *Agr. Prat.* 112: 392-393. Nov. 1948. 14 J82 France.
- 31569 FONTAINE, R. Nouvelle revalorisation des salaires agricoles. *Agr. Prat.* 112: 394. Nov. 1948. 14 J82 France.
- 31570 FONTAINE, R. Physionomie de la situation actuelle de la main-d'œuvre agricole. *Agr. Prat.* 112: 425-427. Dec. 1948. 14 J82 France.
- 31571 HANSEN, G. A. Some new ideas on keeping employees on the dairyfarm by bonus payments. *New Zeal. Dairy Exptr.* 24(5): 32-34. Nov. 1948. 44.8 N484
- 31572 JOHNSON, B. Beet growers show success in meeting farm labor problems. *Sugar Beet* 7(8): 10-11. Dec. 1948. 66.8 Su34B
- 31573 JONES, R. B. Labour employed per holding. *Scot. Dept. Agr. Farm Econ.* 16: 11-13. Autumn 1948. 281.9 Sco3F
- 31574 KLEE, A. Nochmals: am grabe des landarbeiters. *Neue Mitt. f. die Landw.* 3: 488. Dec. 25, 1948. 18 N39 Germany.
- 31575 LACHEIMIS, P. Die berufskrankheiten in der landwirtschaft. Berlin, Deutscher Zentralverlag, 1947. 24 p. (Der Bauernfreund. 95) 448 L112
- 31576 LUTRI, I. The farm a source of unemployment [Italy]? (In Italian.) *Gior. di Agr.* 58: 340. Dec. 5, 1948. 16 It1G
- 31577 MCBOND, W. Harvest labor. *Va. Fruit* 37: 131-132. Jan. 1949. 81 B81B Apples.
- 31578 MAGGIO, G. DI. Italian labor and capital in Tunisia. II. Population, colonization, and classes of workers. (In Italian.) *Africa* 3: 307-308. Dec. 15, 1948. 280.8 Af2
- 31579 MARTINEZ, S. Regimen de trabajo rural. *Rev. Nac. de Agr.* 41(506): 25-29. June 1947. 9.4 R32
- 31580 MEYER, A. E. The farm labor problem. Washington, Washington Post, 1948. 23 p. 283 M575F
- 31581 MITTUSHKIN, T. Plan for tractor work payment in kind and in money. (In Russian.) *Mashinno-Traktorn Stanfs.* 7(10): 9-12. Oct. 1947. 58.8 M11
- 31582 MURPHY, R. G. Distribution of time and travel on dairy farms among dairy chore jobs. N. Y. Agr. Col. *Farm Econ.* 165: 4259-4261. Dec. 1948. 280.8 C812
- 31583 OSWALD, W. Lohndrusch und lohnpflügen in rechtlicher beleuchtung. *Drescher u. Pflüger* 1(2): 6-7. Aug. 15, 1948. 58.8 D81 Germany.
- 31584 RABOFSKY, E. Die gesetzliche regelung der kinderarbeit in der landwirtschaft. *Landarbeiter-Archiv* 3: 301-307. Oct. 1948. 283.8 L23 Austria.
- 31585 REID, A. W. Bonus schemes for dairy workers [Great Britain]. *Dairyman* 66(1): 21, 23, 25. Jan. 1949. 44.8 D1426
- 31586 SCHUMY, B. Die gründe der abwanderung der landarbeiter. *Burgenländische Bauernbündler* 1(22): 2-3. Nov. 25, 1948. 18 B91 Also in *Wiener Bauernbündler* 1(17): 5-6. Dec. 11, 1948. 19 W632; and in *Oberösterr. Landwirtschaftztg.* 2(2): 1. Jan. 12, 1949. 19 Ob23
- 31587 SINGH, V. B. The problems of agricultural labour. *Indian J. Agr. Econ.* 3(2): 68-72. Sept. 1948. 281.8 In2

31588 SMITH, J. H. Supply and cost of labour on small farms [Great Britain]. *Farm Econ.* 6(1/2): 5-7. 1948. 281.8 F223

31589 TREMESBERGER. Erläuterungen zur anordnung über die entlohnung der gefolgschaftsmitglieder in der landwirtschaft im Reichsgau Steiermark. *Landarbeiter-Archiv* 3: 282-284. Sept. 1948. 283 L23

31590 TROW-SMITH, R. £1,000 a year to dairymen; rewards for good work. 2: Gallonage payments for milk produced. *Farmer & Stock-Breeder* 63: 213. Jan. 25, 1949. 10 F228

31591 U. S. FARM PLACEMENT SERV. A guide to farm jobs in the far Western States. Washington, 1948. Folder. 158.31 F22G

31592 VARGINA, P. I. Zveno v bor'be za vysokii urozhai zerna [A squad in the struggle for high grain yields]. Moskva, Moskovskii Rabochii, 1948. 41 p. (Opyt Geroev SoSialisticheskogo Truda) 283 V42 Work management.

31593 VENSTROM, C. Impact of unionization of farm workers upon farm organization and management. West. *Farm Econ. Assoc. Proc.* (1948) 21: 147-148. 280.9 W527P

31594 WAIS, A. Die landwirtschaftliche arbeitsmarktlage. *Württemb. Wchnbl. f. Landw.* 115: 369-370. Dec. 4, 1948. 18 W96

31595 WILCOX, W. W. Higher wages help or hurt farmers? *Farm Policy Forum* 2(1): 35-36. Jan. 1949. 281.8 F2274

31596 WUNDERLICH, F. The changing status of German farm labor in the interwar period. *Amer. J. Econ. & Sociol.* 8(1): 69-76. Oct. 1948. 280.8 Am393

#### AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS

31597 AGRICULTURE in 1948. (In Norwegian.) *Norsk Landbr.* 15(1): 1-10. Jan. 7, 1949. 11 N8122

31598 ALCORN, G. B. The agricultural outlook. *Calif. Citrog.* 34: 128-129. Jan. 1949. 80 C125

31599 ANDALÒ, G. The law of July 1, 1946, No. 31, and the first two years of its enforcement. (In Italian.) *Agr. Modenese* 4(16): 4-5. Nov. 1/15, 1948. 16 Ag8255

31600 ANDERSON, G. W. Agriculture in the undrained basin of Asia. *Agr. Hist.* 22: 233-238. Oct. 1948. 30.98 Ag8

31601 ANISIMOV, N. I. Die landwirtschaft der Sowjetunion im neuen stalinischen fünfjahresplan. Berlin SWA-Verlag, 1947. 170 p. 281.179 An5L

31602 ARESE, F. Example of agrarian transformation in the high dry Lombardy plain. (In Italian.) *B. dell'Agr.* 82(25): 1-2. Dec. 24, 1948. 16 B87

31603 ASHBY, A. W. Nationalism: agriculture and human welfare. *Farm Econ.* 6(1/2): 1-5. 1948. 281.8 F223

31604 ATHERTON, D. O. Native agriculture in New Guinea. *Austral. Inst. Agr. Sci. J.* 14: 107-112. Sept. 1948. 23 Au74

31605 BADING, H. Wörterbuch der landwirtschaft. Deutsch-Englisch; Englisch-Deutsch. Hamburg, Park, 1947. 156 p. 201 B14

31606 BAUERN-JAHREBUCH, 1948. Zella/Rhön, 1948? 128 p. 18 B322

31607 BELSHAW, H. Agricultural reconstruction in the Far East. *Inst. Pacific Relat. Sec. Paper* 3, 140 p. 1947. 281.18 B41

31608 BLUM, J. P. Crise agricole pour demain? *Bouches du Rhone Agr.* 22(994): 3. Jan. 15, 1949. 14 B662

31609 BOEKE, J. H. Ontwikkelingsgang en toekomst van bevolkings- en ondernemingslandbouw in Nederlands-Indie [Development and future of popular and estate agriculture in the Netherlands Indies]. Leiden, Brill, 1948. 103 p. 281.1994 B63

31610 BOERENBOND BELGE. Rapport, 1947. Louvain, 1948? 133 p. 13 B63

Includes a review of the situation in Belgian agriculture.

31611 BÖHME-SKASSA, C. Dänemarks und Deutschlands landwirtschaft. I. *Neue Mitt. f. die Landw.* 3: 493. Dec. 25, 1948. 18 N39

31612 BONNICEL, R. L'avenir agricole des États-Unis. Soc. d'Études, de Vente et d'Achat des Prod. de Pommes de Terre du Nord-Est. B. de Doc. C. Int. 1948 (37): 1. Nov. 1948. 75.9 Sol



- 31613 BOTH, P. Conceptvoorstel voor een rijksplan; Plan Pieter Both, een wereldexperiment in staatkundige vernieuwing, economische ordening en sociale verbetering [Proposal for an imperial plan; Pieter Both Plan, a world experiment in political reconstruction, economic planning and social betterment]. Groningen, Niemeijer, 1948. 266 p. 280.1994 B65  
Includes agricultural reconstruction of Dutch colonies.
- 31614 BRANNAN, C. F. Agriculture looks ahead. Washington, U. S. D. A., 1949. 12 p. 1.91 A2B73
- 31615 BRANNAN, C. F. Brannan urges strong price, storage program. Farmers Union Herald 22(24): 8. Dec. 24, 1948. 280.28 F224
- 31616 BRANNAN, C. F. Learning to live with our abundance. Washington, U. S. D. A., 1948. 11 p. 1.91 A2B73  
Includes production adjustment and the building of adequate reserves.
- 31617 BRANNAN, C. F. U. S. D. A.'s 1949 program for agriculture. Impl. & Tractor 64(1): 68-69, 77. Jan. 8, 1949. 58.8 W41
- 31618 BRANNAN, C. F. What kind of pressure. Washington, U. S. D. A., 1948. 11 p. 1.91 A2B73  
Building a farm program.
- 31619 BRAUN, V. O. Agricultural and business law for the farmer. Rev. ed. St. Paul, Itasca Press, 1948. (Webb Farm Libr. 2) 30.5 B734
- 31620 BRETIGNIÈRE. Les récoltes de 1948 et la situation agricole. Acad. d'Agr. de France. Compt. Rend. 34: 858-860. Oct. 13/20, 1948. 14 P21Bc
- 31621 BRITISH COLUMBIA. DEPT. OF AGRICULTURE. Some facts about British Columbia, Canada. Brit. Columbia. Dept. Agr. Agr. Settlement Ser. C. 1, rev., 44 p. 1948. 7 B77As  
Agriculture.
- 31622 BRITISH INTELLIGENCE OBJECTIVES SUB-COMMITTEE. Some agricultural aspects in Germany during the period 1939-1945. U. S. Off. Pub. Bd. Rpt. 39766, 12 p. 1948. 157.8 R29  
British Intelligence Objectives Sub-Committee Overall Report No. 6.
- 31623 CANADA. DEPT. OF AGRICULTURE. Canadian agricultural program for 1948. Ottawa, 1948. 74 p. 281.9 C163C
- 31624 CANONGE, H. Vers la crise agricole au beau milieu des "plans." Liberation Paysanne 5(193): 3. Dec. 9, 1948. 14 L61  
France.
- 31625 CARDON, P. V. The mild West. Agron. J. 41: 1-8. Jan. 1949. 4 Am34P  
Agriculture.
- 31626 CASE, H. C. M. Can you justify a long range farm program? Co. Agents Dir. (1949) 34: 10, 12. 1948. 225 Of232
- 31627 CECCARELLI, G. Why agriculture rejoices so little in the generous provisions of the State. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 170-172. Sept. 30, 1948. 16 C72
- 31628 CLELAND, S. B. 1949 general outlook for agriculture. Minn. U. Agr. Ext. Pam. 165, 6 p. Dec. 1948. 275.29 M66P
- 31629 CONGRESO SINDICAL DE LA TIERRA, SEVILLE, 1948. Estudios y conclusiones. Madrid, 1948. 298 p. 281.9 C7664
- 31630 CONSERVATIVE AND UNIONIST PARTY ORGANISATION. Conservative agricultural policy. London, Conservative Cent. Off., 1948. 23 p. (Notes Cur. Politics. 1948, No. 14) 281.171 C76Ca
- 31631 COQUERY, P. La production agricole dans le plan Monnet. Cahiers des Ingén. Agron. 3(39/40): 19-21. Sept./Oct. 1948. 14 C112
- 31632 CORBETT, R. B. Needed, a national policy appraisal board for agriculture. Farm Policy Forum 2(1): 52-55. Jan. 1949. 281.8 F2274
- 31633 CUTHBERTSON, D. P. The problem facing agriculture. Albans, Fisher, 1948. 4 p. 389 C97P
- 31634 DEMPSTER, D. G. Farming in the Northeast of Scotland. Brit. Agr. B. 1: 43-48. Summer 1948. 10 B776
- 31635 DOMINICAN REPUBLIC. DIRECCIÓN GENERAL DE ESTADÍSTICA. Reseña geográfica, histórica y estadística de la República Dominicana, by V. T. Rojas. Rev. and enl. ed. Ciudad Trujillo, 1948. 86 p. 254.8 D7197R  
Brief agricultural data.
- 31636 DOMINICAN REPUBLIC. SECRETARIA DE ESTADO DE AGRICULTURA, PECUARIA Y COLONIZACION. JUNTA NACIONAL DE ALIMENTACIÓN Y AGRICULTURA. Informe sobre progresos y programas presentado por la Junta Nacional de Alimentación y Agricultura de la República Dominicana, a la Organización de las Naciones Unidas para la Agricultura y la Alimentación (FAO) 1948. Dominican Repub. Sec. de Estado de Agr., Pecuaria y Colon. Agr. 39(180), 64 p. Sept./Oct. 1948. 8 R323
- 31637 DORIGATTI, R. Economic organization of agriculture in an autonomous field. (In Italian.) Agr. Trentina 3(22): 2. Nov. 15, 1948. 16 Ag8263
- 31638 DRURY, E. C. Where are we heading? Why the urban population should cease exploiting agriculture. Canad. Countryman 38: 3, 25. Jan. 8, 1949. 7 C833  
With particular reference to Government regulations.
- 31639 DUGDALE, SIR T. About the agricultural charter. London, Conservative Political Centre, 1948. 19 p. 281.171 D87
- 31640 DUMONT, R. La intensificación de la agricultura francesa. Trab. Nac. 1549: 279-280. Sept. 1948. 280.8 T672
- 31641 DUTCH agriculture at the crossroads. Rotterdamsche Bankver. Q. Rev. 1948(3/4): 9-45. 1948. 284.8 R74
- 31642 DVORACEK, D. C. 1949 outlook; Agricultural Act of 1948. Minn. U. Agr. Ext. Pam. 164, 6 p. Dec. 1948. 275.29 M66P
- 31643 ELKINTON, C. M. Discussion of farm price, production, and income policy questionnaire. West. Farm Econ. Assoc. Proc. (1948) 21: 34-35. 280.9 W527P
- 31644 ESTONIAN INFORMATION CENTRE. Estonia; basic facts on geography, history, economy. Stockholm, 1948. 15 p. 277.170 Es8  
Agriculture, p. 8-11.
- 31645 FICH, C. Young gardeners and the land law. (In Danish.) Gart. Tid. 64: 537-541. Nov. 10, 1948. 80 G192
- 31646 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. European programs of agricultural reconstruction and development. Washington, 1948. 60 p. 281.17 F73
- 31647 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Report of the FAO Mission for Siam. Washington, 1948. 125 p. 281.186 F73
- 31648 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. The state of food and agriculture--1948; a survey of world conditions and prospects. Sept. 1948. 216 p. 389.9 F735St
- 31649 FOOD AND AGRICULTURE ORGANISATION OF THE UNITED NATIONS. CANADIAN INTERDEPARTMENTAL FAO COMMITTEE. Agriculture, fisheries, forestry and nutrition in Canada, 1948. Ottawa, 1948? 43 p. 389.9 F7353Ca
- 31650 FRANCE. CENTRE NATIONAL DU COMMERCE EXTERIEUR. Australie. Paris, 1947. 31 p. (Pays Vendeur - Pays Acheteur. 4) 286 F843A  
Contains chapters on agriculture and foreign trade.
- 31651 FRANCE. CENTRE NATIONAL DU COMMERCE EXTERIEUR. Canada. Paris, 1947. 31 p. (Its Pays vendeur - Pays Acheteur. 2) 286 F843Ca  
Includes agriculture and trade.
- 31652 FRANCE. CENTRE NATIONAL DU COMMERCE EXTERIEUR. Chili. Paris, 1947. 32 p. (Pays Vendeur - Pays Acheteur. 5) 286 F843Ch  
Agriculture and trade included.
- 31653 FRANCE. CENTRE NATIONAL DU COMMERCE EXTERIEUR. Égypte. Paris, 1947. 32 p. (Its Pays Vendeur - Pays Acheteur. 3) 286 F843E  
Includes agriculture and trade.
- 31654 FRANCE. CENTRE NATIONAL DU COMMERCE EXTERIEUR. U.S.A. Paris, 1947. (Pays Vendeur - Pays Acheteur. 6) 286 F843U  
Contains chapters on agriculture and foreign trade.
- 31655 FRANCE. DIRECTION DE LA DOCUMENTATION. L'évolution économique et sociale de l'Algérie en 1948. France. Dir. de la Doc. Notes Doc. et Études 1035, 11 p. Dec. 14, 1948. 280.9 F843  
Contains a section on the agricultural situation.
- 31656 FRANCE. DIRECTION DE LA DOCUMENTATION. Problèmes démographiques et économiques de l'Asie orientale et méridionale; 2. Agriculture et industrie. France. Dir. de la Doc. Notes Doc. et Études 1034, 27 p. Dec. 11, 1948. 280.9 F843



31657 FRANCE. DIRECTION DE LA DOCUMENTATION. Situation et perspectives de l'agriculture française en 1948. 1. France. Dir. de la Doc. Notes Doc. et Études 1040, 22 p. Dec. 20, 1948. 280.9 F843

31658 FUKUSHIMA, Y. Way to new agriculture. (In Japanese.) n. p., Iyenshikari Assoc., 1948. 204 p. 281.183 F95

31659 GARCÍA REDRUELLO, R. La agricultura española y Jovellanos. Surco [Madrid] 7(78): 25. Aug. 1948. 15 Su7

31660 GARCÍA SOLÓRZANO, A. Informe. Manabí, Ecuador. Consorcio de Cent. Agr. B. 11(56): 26-50. Oct./Dec. 1948. 9.5 M31

Proposals for agricultural development in Ecuador based on observations made in the United States in 1948, under sponsorship of the Office of Foreign Agricultural Relations.

31661 GLUCK, L. Eighteen months of work. Poznan, Wydawnictwo Zachodnie, 1947. 45 p. 280.177 G52  
Includes agriculture and reconstruction of Poland.

31662 GOMES, P. Ceará in reality. (In Portuguese.) Observador Econ. e Financeiro 13(154): 85-90. Nov. 1948. 280.8 Ob72

Includes agriculture.

31663 GREAT BRITAIN. BOARD OF TRADE. British East Africa; economic and commercial conditions in British East Africa, Mar. 1948, by A. G. C. Deuber. London, 1948. 93 p. 270 G792Ea  
Includes agriculture and trade.

31664 GREAT BRITAIN. BOARD OF TRADE. Canada; economic and commercial conditions in Canada, Sept. 1947, by R. K. Jopson. London, 1948. 166 p. 253 G792

Includes agriculture and trade.

31665 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Cyprus for the year 1947. London, 1948. 56 p. 256.02 C71

Includes agriculture.

31666 GROSSE, R. E. Manitoba: a province of industry. Pub. Aff. 11: 267-273. Dec. 1948. 280.8 P965  
Includes agriculture.

31667 HALCROW, H. G. Farm price, production, and income policy; comments on the report of the Agricultural Policy Committee of the Western Farm Economics Association. West. Farm Econ. Assoc. Proc. (1948)21: 36-42. 280.9 W527P

31668 HANNAH, H. W. Law for the Illinois farmer. Ill. Agr. Col. Ext. C. 632, 80 p. Nov. 1948. 275.29 IL62C

31669 HARDIN, C. M. Reflections on agricultural policy formation in the United States. Amer. Polit. Sci. Rev. 42: 881-905. Oct. 1948. 280.8 Am33

31670 HARPAM, W. Switzerland; economic and commercial conditions in Switzerland. London, Bd. of Trade, Export Promotion Dept., 1948. 101 p. (Overseas Econ. Surveys.) 262 G78  
Chapters on agriculture and trade.

31671 HARRIS, J. Changes in Jersey farming. Farmer & Stock-Breeder 63: 37. Jan. 4, 1949. 10 F228

31672 HARTMANN, E. Wann geht die bewirtschaftung zu ende? Österr. Bauernbündler 5(1): 1-2. Jan. 1, 1949. 19 Os7

31673 HAUCH, H. Chief problems in Danish agriculture. (In Danish.) Denmark. Landbrugsraad. Meddel. 1948: 850-864. Sept. 2, 1948. 11 D415L

31674 HAWES, L. R. Worthy master's address. Mass. State Grange. Proc. (1948) 76: 19-32. 1949? 4 M385

31675 HENGL, F. Die wiener landwirtschaft und der gemeindevoranschlag 1949. Wiener Bauernbündler 2(1): 4-5. Jan. 8, 1949. 19 W632

31676 HILL, F. F. What's ahead for northeastern agriculture? (Excerpts.) Community Serv. News 7(1): 29-30. Jan./Feb. 1949. 281.28 C73

31677 HILTON, J. H. How to get the job done. Tarheel Banker 27(8): 7-8, 35. Feb. 1949. 284.8 T17  
Agricultural policy for North Carolina.

31678 HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 128, 6 p.-folder. Dec. 24, 1948. 275.29 W99C

31679 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 1949 outlook for farm and home. Ill. Agr. Col. Ext. C. 635, 8 p. Jan. 1949. 275.29-IL62C

31680 ISSAWI, C. Population and wealth in Egypt. Milbank Mem. Fund Q. 27(1): 98-113. Jan. 1949. 449.9 M582

Includes agricultural production.

31681 IYENOHIKARI ASSOCIATION. Kyofu taisaku to negyo no shinro (Anti panic measures and forward march of agriculture) n. p., 1948. 1 v. 281.183 Iy9 Japan.

31682 JACOBSEN, A. P. Augmentation de la production agricole et les conditions économiques dont elle dépend. Soc. Belge d'Études & d'Expansion. B. Bimest. 47: 711-715. Nov./Dec. 1948. 280.8 So17

31683 JAGGI, E. Betrachtungen zur lage und zukunft der schweizerischen landwirtschaft. Schweiz. Landw. Monatsh. 27(1): 4-28. Jan. 1949. 17 Sch93

31684 JAMES, A. The giant land. Pan American 9(9): 19-23. Feb. 1949. 280.8 P192  
Includes agriculture of Brazil.

31685 JÁNOS, H. A mezőgazdasági termelés produktivitása a mérsékelt égövi országokban [The productivity of agriculture in the temperate zone countries]. Magyar Gazdaságkutató Intézet. Számú Különkiadványa 30, 43 p. 1948. 280.9 B85S  
English summary, p. 39-40.

31686 KAWAI, E. Nihon negyo seisan riki no zento [The future of Japanese agricultural productivity]. Kyoto, 1947. 279 p. 34.3 K172

31687 KAZANDZHIEV, M. Obzor bolgarskogo sel'skogo khozjaistva i dannye o kooperativnom zemlepol'zovanii v Bolgarii [Survey of Bulgarian agriculture and data on cooperative land use in Bulgaria]. Praga, Institut Mezhdunarodnogo Sotrudnichestva po Sel'skomu i Lesnomu Khozjaistvu, 1947. 54 p. (Biblioteka Mezhdunarodnogo Sotrudnichestva po Sel'skomu i Lesnomu Khozjaistvu 5) 281.177 K18

31688 KEILLING, J. Perspectives d'agronomie comparée. Cahiers des Ingén. Agron. 3(39/40): 17-19. Sept./Oct. 1948. 14 C112  
France.

31689 KEIM, J. F. German agriculture. Pa. Farmer 140: 68. Jan. 22, 1949. 6 P383

31690 KELLOGG, C. E. The earth can feed her people. Farm Policy Forum 2(1): 1-5. Jan. 1949. 281.8 F2274

31691 KENDALL, G. E. British Columbia: new opportunities for industry. Pub. Aff. 11: 282-286. Dec. 1948. 280.8 P965  
Includes agriculture.

31692 KENTUCKY. UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. The agricultural outlook for Kentucky, 1949. Lexington, 1948. 20 p. 275.29 K415A

31693 KETCHERSID, C. What's ahead for 1949? Southwest. Crop & Stock 3: 16. Jan. 1949. 6 So8942

31694 KING, A. H. W. Brazil; report on economic and commercial conditions in Brazil. Jan. 1948. 91 p. (Overseas Econ. Surveys.) 255.3 G79

Includes chapters on agriculture and trade.

31695 KITCHEN, F. Settlers in England. London, Dent, 1947. 157 p. 32 K64  
Agriculture.

31696 KLÄSSEL, O. Das deutsche agrarrecht und seine reform. Hannover, Schaper, 1947. 203 p. 30.5 K66

31697 KOENIG, N. Western Europe's blueprint for agriculture. Foreign Agr. 13: 11-15. Jan. 1949. 1.9 Ec7For

31698 KOENIG, N. What's ahead for the American farmer. Washington, U. S. D. A., 1948. 10 p. 1.91 A2K82

31699 KOOMAN, J. A. Can Marken, remain Marken? (In Dutch.) Netherlands. Landbouwvoorlichtingsdienst. Maandbl. 5: 575-581. Dec. 1948. 12 N383M  
Agriculture.

31700 KRAUS, J. Ein blick nach rückwärts. Österr. Bauernbündler 5(1): 1. Jan. 1, 1949. 19 Os7  
Agricultural situation.

31701 KRAUS, J. Die wichtigsten agrarpolitischen fragen Oesterreichs. Wiener Bauernbündler 1(18): 6-8. Dec. 25, 1948. 19 W632

31702 LANGILLE, I. Island of enchantment. Family Herald & Weekly Star 79(52): 3. Dec. 29, 1948. 7 F21

Includes agricultural life on the Isle of Orleans.



- 31703 LATHAM, E. G. American farms. II-III. Co-op Grain Q. 6(3): 65-69, 70-75. Winter 1948. 280.28 C7898  
Government intervention in agriculture.
- 31704 LIEVANO, A. Algo sobre nuestras posibilidades agrícolas. Rev. Nac. de Agr. [Bogotá] 41(508): 26-28. Aug. 1947. 9.4 R32
- 31705 LINGEMAN, E. F. Turkey; economic and commercial conditions in Turkey. London, Bd. of Trade, Export Promotion Dept., 1948. 228 p. (Overseas Econ. Surveys.) 269.9 G79  
Contains chapters on agriculture and foreign trade.
- 31706 LOGAN, J. H. A changing scene. Natl. Co. Agent 5(1): 10-11. Jan. 1949. 275.28 N213
- 31707 MACKENZIE, A. W. Agriculture in Nova Scotia hits high level during 1948. Marit. Farmer 54 (8): 5, 25. Jan. 18, 1949. 7 C77
- 31708 MCKEON, C. J. Some impressions of agriculture in the United States of America. Austral. Inst. Agr. Sci. J. 14: 113-118. Sept. 1948. 23 Au74
- 31709 MALTHA, D. J. Bibliography of agriculture. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandbl. 5: 587-590. Dec. 1948. 12 N383M
- 31710 MALTHA, D. J. Brief report on the district survey in Groesbeek. (In Dutch.) Netherlands. Landbouwwoorlichtingsdienst. Maandbl. 5: 581-587. Dec. 1948. 12 N383M  
Agriculture.
- 31711 MARAMBA, F. D. Our five-year plan of agricultural production. Agr.-Com.-Indus. Life. 10(10): 6, 32, 34. Oct. 1948. 25 Ag8  
In the Philippines.
- 31712 MARSON, T. B. Soil and security. Edinburgh, Oliver & Boyd, 1947. 135 p. 281.171 M35  
British agriculture and agricultural policy, including livestock.
- 31713 MERRICK, R. D. Farming problems in Kwangsi. China Weekly Rev. 112: 62. Dec. 18, 1948. 280.8 C445
- 31714 MORK, R. Les principaux problèmes de l'agriculture norvégienne d'après-guerre. Soc. Belge d'Etudes & d'Expansion. B. Bimest. 47: 768-774. Nov./Dec. 1948. 280.8 So17
- 31715 MYERS, M. W. Geography of the Mississippi Black Prairie. Clark U. Abs. Diss. and Theses 1948: 23-27. 241.8 C54  
Includes agriculture.
- 31716 MYERS, W. I. Effects of the foreign aid program on American agriculture. Acad. Polit. Sci. Proc. 23: 169-177. Jan. 1949. 280.9 Ac1
- 31717 MYERS, W. I. What's ahead for farming. Successful Farming 47: 29, 104-105. Jan. 1949. 6 Su12
- 31718 NAEGELEN. Situation économique de l'Algérie. Voix des Colons 30(1481): 3. Dec. 6, 1948. 24 V85  
Agriculture.
- 31719 NETHERLANDS. MINISTERIE VAN LANDBOUW, VISSERIJ EN VOEDSELVOORZIENING. The agriculture of the Netherlands. Dutch propagating stock for crop husbandry and animal husbandry. The Hague, 1947. 28 p. 33.15 N383
- 31720 NEW YORK. STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. 1949 New York State agricultural outlook. N. Y. Agr. Col. Cornell Ext. B. 758, 16 p. Dec. 1948. 275.29 N48E
- 31721 NEW ZEALAND. DEPT. OF AGRICULTURE. Primary production in New Zealand. New ed., completely rev. Wellington, 1948. 147 p. 281.1993 N483
- 31722 NEWSOM, J. E. Agriculture—our greatest industry. Rec. Stockman, Ann. Ed. 59(52): 52-53. Dec. 23, 1948. 49 D43  
Colorado.
- 31723 NOSTI, J. Agricultura de Guinea, promesa para España. Madrid, Instituto de Estudios Africanos, 1948. 90 p. 35.4 N84
- 31724 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. The agricultural situation: outlook for 1949. Okla. Agr. Expt. Sta. Cur. Farm Econ. 21: p. 121-145. Dec. 1948. 100 Ok4
- 31725 ORANGE, A. Vœux et réalités. Bouches du Rhone Agr. 22(993): 1. Jan. 1, 1949. 14 B662  
Agricultural policy.
- 31726 OSPINA PÉREZ, M. La nueva economía colombiana (llamamiento a la concordia nacional) Bogotá, Impr. Nacional, 1948. 39 p. 280.165 Os6  
Agricultural.
- 31727 PERSIA, G. Contribution to the solution of the agricultural problem in Apulia. (In Italian.) Risveglio Agr. 7: 353-354, 357. Ref. Oct. 15/31, 1948. 16 R49
- 31728 PERU. MINISTERIO DE AGRICULTURA. Plan financiero para la solución de los problemas agrícolas y alimenticios del Perú. Lima, 1948. 113 p. 281.168 P432
- 31729 PETERSEN-DALUM, J. Agriculture at the turn of the year. (In Danish.) Dansk Lanbr. 68(1): 2-3. Jan. 6, 1949. 280.28 V91
- 31730 PETERSON, V. S. The impact of science on agriculture. West. Farm Econ. Assoc. Proc. (1948) 21: 157-162. 280.9 W527P
- 31731 QUILEZ ROYO, P. La transformación agrícola en la presente era de Trujillo. Cám. Ofic. de Com., Agr. e Indus. del Dist. de Santo Domingo. B. Inform. 6(24): 19-22. Nov. 1948. 287 Sa58B
- 31732 RAWLINGS, B. R. Farming in 1948. Fed. Reserve Bank Atlanta. Monthly Rev. 34(1): 10-11. Jan. 31, 1949. 284.8 F31A
- 31733 RHODESIA, SOUTHERN. SCHOOLS BROADCASTING COMMITTEE. This is your country; reprint of broadcasts to schools. n. p., 1948. 81 p. (P. 2) 279.193 R342  
Contains chapters on agriculture and forestry.
- 31734 RICARD, J. H. L'heure de la grande France agricole est venue. Cahiers des Ingén. Agron. 3(39/40): 15-16. Sept./Oct. 1948. 14 C112
- 31735 ROBBINS, W. J. My recent trip to Japan, with certain observations concerning its agriculture and basic food supply. N. Y. Farmers. Proc. 1947/48: 83-96. 4 N48P  
Discussion, p. 96-98.
- 31736 ROBERTS, N. S. Iran; economic and commercial conditions. London, Bd. of Trade, Export Promotion Dept., 1948. 50 p. (Overseas Econ. Surveys.) 269 P432  
Chapters on agriculture and trade.
- 31737 ROBERTSON, C. E. Comments on the report of the Agricultural Policy Committee. West. Farm Econ. Assoc. Proc. (1948) 21: 32-33. 280.9 W527P
- 31738 ROCHET, W. L'agriculture française est en péril! Terre 219: 3-4. Dec. 23/29, 1948. 281.8 T27
- 31739 ROMERO, E. La evolución agrícola del Perú durante la República. Agronomía [Lima] 3(55): 9-15. 1948. 9.8 Ag83
- 31740 ROMON, H. Les affameurs. Nord Agr. 5(7): 1. Dec. 18, 1948. 14 N75  
The Monnet Plan for French agriculture.
- 31741 RONCHI, V. Agriculture without peace. (In Italian.) Gior. di Agr. 58: 363. Dec. 26, 1948. 16 It1G  
Italy.
- 31742 RUPP, J. Die landwirtschaft hat ihre pflicht getan! Österr. Bauernbündler 4(48): 1. Dec. 4, 1948. 19 Os7
- 31743 RUSSELL, J. S. Mr. Farmer, it's your move! Iowa Farm & Home Register 1949: 3-H, 4-H. Jan. 2, 1949. 6 Io94  
The agricultural situation.
- 31744 RZHENDOVSKIĬ, L., and CHERNEVSKIĬ, K., ed. Obzor sel'skogo khoz'fáistva v Pol'she [Survey of agriculture in Poland]. Praga, Institut Mezhdunarodnogo Sotrudnichestva po Sel'skomu i Lesnomu Khoz'fáistvu. 1947. 31 p. (Biblioteka Mezhdunarodnogo Sotrudnichestva po Sel'skomu i Lesnomu Khoz'fáistvu. 7) 281.177 R99
- 31745 SALA ROCA, E. La política agraria en la U.R.S.S. Gerona, 1948. 40 p. 281.179 Sa3
- 31746 SANFORD, H. E. "Economic statesmanship" and agriculture. Northwest. Miller 237(3): 26-29. Jan. 18, 1949. 298.8 N81  
Also in Feedstuffs 21(5): 42, 44-48. Jan. 29, 1949. 286.81 F322
- 31747 SANFORD, H. E. Sanford reviews pending national agricultural legislation. Grain & Feed Rev. 38(6): 10, 61. Feb. 1949. 280.28 G78
- 31748 STA. ROSA, J. Agriculture, basis of industry. (In Portuguese.) Rev. de Quím. Indus. 17(198): 13. Oct. 1948. 385 R324



- 31749 SARLE, C. F., and ROBINSON, T. C. M. Measurement of agricultural production. Washington? U. S. Bur. Agr. Econ., 1948. 6 p. 1.941 A2Sa7
- 31750 SCHENCK, H. E. Let's check up—plan! Hoosier Farmer 34(1): 5. Jan. 1949. 280.82 H76
- 31751 SHELLABY, R. K. Brazil overcoming dollar shortage; more diversification is country's greatest need. Cotton Trade J. Internatl. Ed. (1948/49) 16: 134-137. 1948. 72.8 C82141
- 31752 SIDLES, H. I've seen agriculture in the Argentine. Iowa Agriculturist 47(5): 18-19. Dec. 1948. 6 I69
- 31753 SILORET. Etude des problèmes posés par la remise en valeur des landes de Gascogne. Bois et Résineux 30(1474): 1; (1475): 1. (Canele) Sept. 30-Oct. 10, 1948. 99.82 B63
- 31754 SIMPSON, C. Agriculture plays main role in progress of Chaves County. N. Mex. Stockman 14(1): 44, 48. Jan. 1949. 49 N462
- 31755 SIROTTI, G. Technical problems of postwar agriculture in Ravenna. (In Italian.) Romagna Agr. e Zootec. 33(1): 1. Jan. 1948. 16 R66
- 31756 SKOVGAARD, K. Om den internationale landbrugspolitik efter krigen [International agricultural policy after the war]. Ringsted, Folketidendes Bogtrykkeri, 1948? 8 p. 281 Sk5
- 31757 SMIT, CHR. P. G. J. Basic material for agricultural policy. (In Dutch.) Econ. Statist. Ber. 34(1652): 8-11. Jan. 5, 1949. 280.8 Ec722  
Statistics in the Netherlands.  
Summary in French and English.
- 31758 SMITH, C. B. Mexico boosts farm production. Overseas Rpt. Agr. Devlpmt. 19, 4 p. Jan. 1949. 281.9 C16420
- 31759 SOUTH AMERICAN handbook, 25th, 1948. London, 1947? 778 p. 255 So82  
Contains information on agriculture.
- 31760 SOUTH AUSTRALIA. PASTORAL AND MARGINAL AGRICULTURAL AREAS INQUIRY COMMITTEE. Report...together with graphs and appendices. Adelaide, Stevenson, 1948. 110 p. 281.1992 So8  
Agriculture, settlement, and land use.
- 31761 STALL, C. W. AFBF convention featured how to keep our America free and our farmers strong. Hoosier Farmer 34(1): 8-9. Jan. 1949. 280.82 H76
- 31762 STILES, J. A. Venezuela plans higher output of some agricultural items. Foreign Trade 5: 237-239. Jan. 29, 1949. 286.8 C162
- 31763 STOCKHOLM. KONJUNKTURINSTITUTET. Konjunkturläget hösten 1948 [Economic and financial trends fall 1948]. Konjunkturinst. Stockholm. Meddel. Ser. A. 16, 78 p. 1948. 280.9 St6M  
Summary in English, p. 65-74.  
Includes agricultural situation.
- 31764 STOSS, H. Bilanz zum jahresende. Württemb. Wchnbl. f. Landw. 116: 1-2. Jan. 1, 1949. 18 W96
- 31765 TAPP, J. W. Farm price, production and income policy. West. Farm Econ. Assoc. Proc. (1948)21: 43-46. 280.9 W527P
- 31766 TAYLOR, J. W. Egypt; economic and commercial conditions in Egypt. London, Bd. of Trade, Export Promotion Dept., 1948. 87 p. (Overseas Econ. Surveys.) 270 Eg97  
Chapters on agriculture and foreign trade.
- 31767 TENNESSEE. STATE PLANNING COMMISSION. Industrial resources of Tennessee, v. 2. Forests, agriculture and minerals. Tenn. State Planning Comn. P. 195, 100 p. Dec. 1948. 280.7 T25Ir
- 31768 TISSOT, P. Les régions agricoles du Liban. Inst. Natl. Agron., Paris. Ann. 35: 112-165. Ref. 1948. 105.3 In3
- 31769 TURNER, J. Agricultura británica. Nuestros Amigos 5(53): 13, 40. Oct. 1948. 48.8 N88
- 31770 UHLMANN, R. Forecast for agriculture in 1949. Westernnews 10(5): 1-2. Jan. 1949. 389.78 W522
- 31771 UHLMANN, R. F. 1948—banner year for agriculture. Feed Bag 25(1): 21. Jan. 1949. 389.78 F32
- 31772 UNION OF SOUTH AFRICA. DEPT. OF AGRICULTURE. DIVISION OF ECONOMICS AND MARKETS. Agro-economic survey of the Union. So. Africa. Dept. Agr. B. 270, 192 p. 1948. 24 So84P
- 31773 U. S. BUR. OF AGRICULTURAL ECONOMICS. Long-range agricultural policy. A study of selected trends and factors relating to the long-range prospect for American agriculture for the Committee on Agriculture of the House of Representatives, Eightieth Congress, second session. Washington, 1948. 72 p. 1 Ec7Lo
- 31774 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SECRETARY. Farm policy and program for the years 1947 and 1948. Data submitted by the Secretary of Agriculture to the Committee on Agriculture and Forestry. Washington, 1947. 16 p. (U. S. 80th Cong., 1st sess., 1947. Senate. Doc. 9) 1 Ag86Fpo
- 31775 UNSER hof; jahrbuch für bauern, siedler, gärtner, gartenfreunde, 1948. Berlin. 144 p. 18 Un72
- 31776 VENEZUELA. DIRECCION DE AGRICULTURA. COMISION CONSULTIVA. Planificación de labores proyectos de trabajo aprobados y en ejecución. Caracas, 1948. 55 p. 9.95 V553
- 31777 VOGT, S. W. The last frontier. Denver, Farmers Ed. and Coop. Union of Amer., 1948. 110 p. 280.2 V86  
Agricultural problems.
- 31778 WADHAM, S. M. The agricultural position as I see it. So. Austral. Dept. Agr. J. 52: 117-119. Oct. 1948. 23 So84
- 31779 WAGENINGSE HOGESCHOOLVERENIGING. De functie van de landbouw in de maatschappij [The function of agriculture in society]. Wageningen, Veenman, 1948. 96 p. (P. 8) 281 W12
- 31780 WAHLEN, F. T. Probleme und entwicklungstendenzen der amerikanischen landwirtschaft. Schweiz. Landw. Monatsh. 1948: 349-364. Nov. 20, 1948. 17 Sch93
- 31781 WELLMAN, F. E. Das neue landwirtschaftsrecht in der Britischen Zone. Lüneburg, Kinau, 1947. 72 p. (Kurzschriften für Landwirtschaft, Gartenbau und Siedlung. 12) 30.5 W46
- 31782 WESTBERG, B. Regulations concerning aid to liming as well as equipment on smaller farms. (In Swedish.) Kalmar Läns Norra Hushållningssällsk. Kvrtlsskr. 8: 107-110. 1948. 11 K12
- 31783 WESTERN FARM ECONOMICS ASSOCIATION. AGRICULTURAL POLICY COMMITTEE. Farm price, production, and income policy. West. Farm Econ. Assoc. Proc. (1948)21: 6-31. 280.9 W527P  
M. Clawson, Chairman.
- 31784 WIRTH. Die landwirtschaft in Württemberg-Baden. Statist. Monatsh. Württemberg-Baden 2: 314-316. Nov. 1948. 265 St24
- 31785 WOOLLEY, F. K. New legislation of interest to PMA. Washington? U. S. Prod. and Mktg. Admin., 1948. 8 p. 1.956 A2W88
- 31786 ZAPATA LOTERO, G. Significado económico de la industria agropecuaria. Rev. Nac. de Agr. [Bogotá] 41(508): 22-24. Aug. 1947. 9.4 R32

## Subsidies

- 31787 GRABÖ, P. English agriculture; food subsidies. (In Swedish.) Lantmannen 32: 824-825. Dec. 11, 1948. 11 L234
- 31788 HUGHES, E. Farm subsidizers get mandate for new gluts. Barron's 28(45): 7-8. Nov. 8, 1948. 284.8 B27
- 31789 TEN DOESSCHATE, J. F. Lower subsidies in the Netherlands. (In Dutch.) Econ. Statist. Ber. 33: 905-906. Nov. 17, 1948. 280.8 Ec722  
English summary, p. 904.  
Includes food.

## COST AND STANDARD OF LIVING

- 31790 MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. 1949 outlook; family living. Minn. U. Agr. Ext. Pam. 166, 6 p. 275.29 M66P
- 31791 TALLEUR, C. Rural homemakers anxious to improve both working habits and living standards. Rur. Mktg. 4(2): 4. Feb. 1949. 280.328 R88

## FARM MANAGEMENT AND LAND ECONOMICS

- 31792 ABROSIMOV, M. A., SOKOLOV, T. I., and CHUVIKOV, V. A. Spravochnik predsedatel'ia kolchoza [A guide book for the collective farm chairman]. Ed. 3. rev. Moskva, Sel'khozgiz, 1948. 606 p. 281.179 Ab82S
- 31793 AGENDA des agriculteurs et des viticulteurs, 55th, 1949. 1948? 192 p. 14 Ag3  
France.
- 31794 AMERICAN PLANNING AND CIVIC ASSOCIATION. American planning and civic annual; edited by H. James. Washington, D. C., 1948. 180 p. 280.9 Am322  
Includes papers on land planning.



- 31795 ARNOLD, P. T. D. Factores que conducen al éxito de la explotación del ganado lechero. *Rev. Ganad. [San Salvador]* 8(108/109): 11. Nov./Dec. 1948. 8 R3292
- 31796 BALLENTINE, L. Y. Our agricultural needs. *Tarheel Banker* 27(8): 3-4, 33. Feb. 1949. 284.8 T17  
Diversification needs for North Carolina.
- 31797 BHAGWAT, N. P. Some aspects of co-operative farming. *Bombay Co-op. Q.* 32: 27-33. July 1948. 280.28 B63
- 31798 BLACK, R. V. Land planning in New Jersey. *Amer. Planning & Civic Ann.* 1948: 29-33. 280.9 Am322
- 31799 BLOCH, K. Observations on the employment and the land problems. (In Danish.) *Tolvmandsbladet* 20: 281-285. Dec. 1948. 11 T58  
Chiefly on size of farm.
- 31800 BOERGER, A. Práctica general y especialización en la carrera agronómica. *Inst. Agr. Argentino. Reseñas* 8(62), 27 p. 1948. 281.9 B862
- 31801 BOWERSOX, F. C., and BENSON, C. T. Farm science, general science, agriculture, nature study. *Mason City, Iowa, Kipto Loose Leaf Co.*, 1948. 105 p. Ref. 30.2 B67
- 31802 BROWN, D. Missouri progresses with balanced farming. *Jersey B.* 68: 97, 129. Jan. 25, 1949. 43.8 J48
- 31803 BUCHANAN, K. Modern farming in the Vale of Evesham. *Econ. Geog.* 24: 235-250. Oct. 1948. 278.8 Ec7
- 31804 CANDY, R. A. Denmark; land poor—costs high but farming efficient. *New Zeal. Dairy Exptr.* 24(5): 6-7, 20. Nov. 1948. 44.8 N484
- 31805 CARLBERG, G. Cooperative community. I. *Kooperatören* 1948: 511-515. Dec. 15/31, 1948. 280.28 K832  
With special reference to Palestine.
- 31806 CARPENTER, F. R. Federal land policy. *Mont. Stockgrower* 21(1): 26, 28-29. Jan. 15, 1949. 49 M76
- 31807 CARRILLO R., L. La pequeña propiedad agrícola en el mejoramiento y aumento de la producción. *Agr. Lagunero* 3(30/31): 7, 27. Oct./Nov. 1948. 8 Ag824
- 31808 CASTRILLO, Z. Vast land resources—our heritage. *Agr.-Com.-Indus. Life* 10(11): 8, 31. Nov. 1948. 25 Ag8  
Philippine Republic.
- 31809 CLELAND, S. B. Tells how to cut farm costs. *Midland Coop.* 16(21): 1, 3. Jan. 26, 1949. 280.28 M58
- 31810 COOPER, M. M. Britain's most "talked of" farm is all that it is cracked up to be. *New Zeal. Dairy Exptr.* 24(5): 45-47. Nov. 1948. 44.8 N484
- 31811 CRAYBILL, W. R. Veterans assist with farm face-lifting for classmates. *Agr. Ed. Mag.* 21: 159. Jan. 1949. 275.8 Ag8
- 31812 CRUZ RIVERO, A. Azucareras. *Tierra Libre* 13(2): 4. Feb. 1949. 8 T443  
The small sugarcane farmers of Cuba.
- 31813 DANIELSON, C. B., and BARLOW, F. D., JR. Management problems on farms growing sweet potatoes in the Macon Ridge Area of Louisiana. *La. Agr. Expt. Sta. Mimeog.* C. 87, 69 p. Dec. 1948. 100 L935
- 31814 DANKENBRING, R. I spent the summer in Italy. *Brown Swiss B.* 27(7): 11-12, 43-44. Jan. 1949. 43.8 B81  
Farming methods.
- 31815 DOUCE, L. R. The Austrian farmer hoes a hard row. *Ohio Farmer* 203(2): 44, 45. Jan. 15, 1949. 6 Oh3
- 31816 EDE, R. The principles of agriculture. London, Pitman, 1947. 272 p. (Farm Inst. Ser.) 30 Ed2
- 31817 ELAGIN, V. Rasśvet zemli [Flourishing of the land]. *Moskva, Gos. Isd-vo Kul'turno-prosvetitel'noi Lit-ry*, 1948. 167 p. 33.31 EL1  
Collective farm production.
- 31818 FAHRINGER, F. Das bergbauernproblem und die landtechnik. *Kärntner Bauer* 98: 419-421. Dec. 20, 1948. 19 K14
- 31819 FENNELL, T. A. La diversificación agrícola. *Hacienda* 44(1): 42-43, 56. Jan. 1949. 6 H11
- 31820 FRANCKE, A. Der erfolgreiche bauer; praktische hinweise zur einrichtung eines betriebes. *Ed. 3. Zella/Rhön, Hofmann*, 1947. 28 p. 281.175 F84
- 31821 FUSSELL, G. E. "High farming" in the North of England. *Econ. Geog.* 24: 296-310. Oct. 1948. 278.8 Ec7
- 31822 GOFMAN, M. B., and NIKITIN, V. L. Organizatsiia utkovodchesdof fermi [Organization of a duck farm]. *Moskva, Pishchepromizdat*, 1947. 57 p. 281.347 G55
- 31823 GREEN, J. The agricultural revolution; new tools, crops and methods promise unlimited future. *Mont. Farmer-Stockman* 36(11): 5-6. Feb. 1, 1949. 6 M764
- 31824 GROSSE-LÜMERN. Zeitfragen der wirtschaftsberatung. *Neue Mitt. f. die Landw.* 3: 486-488. Dec. 25, 1948. 18 N39
- 31825 GUARD, S. R. 50 acres and 15 cows: any little man can do it—if he has the love of livestock in his heart. *Breeder's Gaz.* 114(3): 5, 20, 29. Mar. 1949. 49 B74
- 31826 GUEVARA, L. A. Granjas comunales indígenas [Peru]. *Amér. Indig.* 9(1): 65-72. Jan. 1949. 446.9 In8A  
English summary.
- 31827 HALL, I. F., and MORTENSON, W. P. The farm management handbook. *Danville, Ill., Interstate*, 1948. 576 p. 281.12 H14
- 31828 HAMPSON, C. M. Starting and managing a farm. *New York, McGraw-Hill*, 1948. 250 p. 281.12 H18
- 31829 HECKL, R. Freilandhaltung und gebäudefrage. Wozu brauchen wir den stall? *Landtechnik [Wien]* 1: 326-329. Oct. 1948. 58.8 L236  
Chiefly farm management.
- 31830 HENRICHS, A. Gefahren der schematisierung. *Neue Mitt. f. die Landw.* 3: 229-231. Aug. 5, 1948. 18 N39
- 31831 HEYSE, T. Vente et location des terres; tableau comparatif des tarifs. n. p., 1948? 16 p. 282.19 H51
- 31832 HIGGS, C. A need for machines and pedigree stock. *Farmer & Stock-Breeder* 62: 3014-3015. Dec. 28, 1948. 10 F228  
Farming in Rhodesia.
- 31833 HOWELL, H. B. Farming with a plan. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 3(6): 13-14. Dec. 1948. 275.28 Io94
- 31834 HURST, F. Rice and beef, a profitable dish. Rice growers are building elevators, growing beef in their rice-beef rotations. *Prog. Farmer, Miss.-Ark.-La. Ed.* 63(11): 15, 111, 117. Nov. 1948. 6 So81
- 31835 IDAHO. STATE LAND DEPT. 29th biennial report, 1946/48. n. p., 1948? 32 p. 252.21 St2
- 31836 JOKEMASA, M. Nogyo kyodo kumiai no chishiki (Information about agricultural cooperative associations; and appendices) *Kyoto*, 1948. 148 p. 280.2 J67
- 31837 JORDAN, W. T. Hugh Davis and his Alabama plantation. *University, U. of Ala. Press*, 1948. 177 p. Ref. 281.006 J76
- 31838 JOSS, A. Economic criteria for land development and conservation on private land. *West. Farm Econ. Assoc. Proc.* (1948) 21: 107-108. 280.9 W527P
- 31839 KELSO, M. M. Economic criteria for conservation and development of public lands. *West. Farm Econ. Assoc. Proc.* (1948) 21: 85-92. 280.9 W527P
- 31840 KENNEDY, V. D. A program for farm management extension; comments. *West. Farm Econ. Assoc. Proc.* (1948) 21: 154-156. 280.9 W527P
- 31841 KENNERKNECHT, H. Der alpwirtschaftsbetrieb 1948. *Landw. Wchnbl.* 138: 366. Nov. 13, 1948. 18 L2338
- 31842 KIENE, P. Bäuerliche wirtschaftsberatung. *Neue Mitt. f. die Landw.* 3: 462-463. Dec. 15, 1948. 18 N39
- 31843 KIKIN, B. I. Voprosy upravleniia MTS [Problems in management of machine tractor stations]. *Moskva, Sel'khozgiz*, 1948. 95 p. 281.179 K55
- 31844 KÖRBER, F. Der bergbauer. *Kärntner Bauer* 98: 411-414. Dec. 20, 1948. 19 K14
- 31845 LAND en tuinbouw, 1946. Ghent, Jaarbeurs van Gent, 1947. 237 p. 13 L22
- 31846 LAZZERINI, O. The small farm and its needs. (In Italian.) *Terra [Firenze]* 60(5): 1, 3. Jan. 30, 1949. 16 T274
- 31847 LEES, A. B. The search for farm efficiency. *New Zeal. Farmer* 69(20): 56. Nov. 25, 1948. 23 N484  
Management of a farm in England.



- 31848 LEWIS, A. B. Modernization of world agriculture. Maine. Agr. Col. Ext. B. 384, 18 p. Sept. 1948. 275.29 M281B
- 31849 LONG, W. H., and JEFFREY, A. G. The economic organization of intensive milk producing farms. n. p., 1947? 11 p. 281.344 L85
- 31850 MCGOUGH, M. L., and BARLOW, F. D., JR. An analysis of the farm business and the dairy enterprise on dairy farms in the North Louisiana Upland Cotton Area. La. Agr. Expt. Sta. Mimeog. C. 88, 149 p. Dec. 1948. 100 L935
- U. S. Bureau of Agricultural Economics cooperating.
- 31851 MARTIN, J. Intensive system of farming on Jersey Island. Primary Prod. [Sydney] 25(46): 13. Nov. 26, 1948. 23 P93
- 31852 MIEGE, E. L'agriculture à l'honneur. Inform. Maroc. 405: 1, 4. Oct. 16, 1948. 281.8 In3
- On the Faucon Prize for farming.
- 31853 MILLER, J. P. Maybe you can handle a larger flock. The best way for the commercial poultryman to step up his income is to increase the size of his flock. Pacific Poultryman 53(2): 8, 40-41. Feb. 1949. 47.8 P112
- 31854 MITCHELL, M. W. An agricultural handbook for the field staff. Canning Trade 71(29): 52, 54. Feb. 7, 1949. 286.83 T67
- 31855 MONTANA, DEPT. OF STATE LANDS AND INVESTMENTS. Biennial report 1946/1948. Helena, 1948. 44 p. 252.49 L22
- 31856 MONTELL, E. W. Importance of the field staff. Canning Trade 71(29): 58. Feb. 7, 1949. 286.83 T67
- 31857 MOORE, H. I. Background to farming. London, Allen & Unwin, 1947. 162 p. 281.171 M78
- 31858 MORTENSON, W. P. Shall I go farming? Hoard's Dairyman 94: 188-189. Feb. 25, 1949. 44.8 H65
- 31859 NANAVATI, SIR M. B. Notes on co-operative farming. Indian J. Agr. Econ. 3(2): 17-26. Sept. 1948. 281.8 In2
- 31860 NIKITIN, V. L., and SHAPOVALOV, I. A. Organizatsiya gusevodcheskoj fermi [Organization of a goose raising farm]. Moskva, Pishchepromizdat, 1947. 35 p. 47.1 N58
- 31861 NODLAND, T. R., and POND, G. A. Annual report of the southeastern Minnesota farm management service, 1947. Minn. U. Div. Agr. Econ. Mimeog. Rpt. 167, 28 p. Apr. 1948. 281.9 M66
- U. S. Bureau of Agricultural Economics and county extension services cooperating.
- 31862 NODLAND, T. R., POND, G. A., and VANVIG, A. Annual report of the southwestern Minnesota farm management service, 1947. Minn. U. Div. Agr. Econ. Mimeog. Rpt. 168, 29 p. May 1948. 281.9 M66
- U. S. Bureau of Agricultural Economics, county extension services, and Southwest Minnesota Farm Management Association cooperating.
- 31863 NORTH CENTRAL FARM MANAGEMENT EXTENSION COMMITTEE. Farm and home planning, North Central States. n. p., 1948. 22 p. 1.913 E2F2274
- The Extension workers' contribution and work under way.
- 31864 OCAÑA, B. Por una ciencia agrícola. Panamá, Impr. la Nación, 1948. 35 p. 31.6 Ocl
- 31865 ONTARIO. MINISTER OF LANDS AND FORESTS. Report, 1946/47. 1948. 194 p. 253.6 L23
- 31866 PARVIN, D. W. The nature of an efficient agriculture in the Brown Loam area of Mississippi. Miss. Agr. Expt. Sta. B. 455, 34 p. June 1948. 100 M69
- 31867 PETERSEN, J. Should the advisory services of truck farming and the nursery industry be centralized? (In Danish.) Gart.-Tid. 64: 638-639. Dec. 29, 1948. 80 G192
- 31868 PINGREY, H. B. Economic criteria for conservation and development of public lands. West. Farm Econ. Assoc. Proc. (1948)21: 93-97. 280.9 W527P
- 31869 POLIAKOV, V. Pervaja zapoved' kolkhozov [The first commandment of collective farms]. Moskva, Gos. Izd-vo Polit. Lit-ry, 1948. 35 p. 281.179 P752
- 31870 POLITICAL AND ECONOMIC PLANNING. Agricultural Executives. Planning 15: 211-233. Jan. 31, 1949. 280.8 P693
- Agricultural Executive Committees in Great Britain.
- 31871 POPP, A. Der kapitaleinsatz in der landwirtschaft. Neue Mitt. f. die Landw. 3: 468. Dec. 15, 1948. 18 N39
- 31872 POTOMAC GRANGE NO. 1, PATRONS OF HUSBANDRY. Extension of grazing privileges on publicly owned rural lands. Washington, 1948. 17 p. 282.003 P84
- 31873 PROTOGINO, J. La chacra argentina. 32 (385): 46-47. Nov. 1948. 9 C15
- 31874 QUEENSLAND. LAND ADMINISTRATION BD. Annual report... on the operations of the Department of Public Lands, 1947-48. Brisbane, 1948. various paging. 271.3 P96
- 31875 RIES, L. W. Teilbau—eine Lösungsmöglichkeit für verwaiste Betriebe. Neue Mitt. f. die Landw. 3: 223-224. Aug. 5, 1948. 18 N39
- Germany.
- 31876 ROBERTSON, A. C. This intricate business called farming. Farmer's Advocate & Home Mag. 84 (3342): 6, 28. Jan. 13, 1949. 7 F22
- 31877 ROBINSON, W. W. Land in California. Berkeley, U. Calif. Press, 1948. 291 p. 282.010 R56
- 31878 RUTHERFORD, D. M. The accent is on diversification. Calif. Citrog. 34: 143, 174-176. Feb. 1949. 80 C125
- 31879 SALA ROCA, E. El incremento de la producción agraria. Cult. Mod. 31: 330. Sept. 1948. 15 C89
- Farming methods.
- 31880 SAPHIR, B. Las zonas marginales y su aplicación en las explotaciones avícolas. Tambo y Chacra 20(738): 4. (To be cont.) Dec. 20, 1948. 44.8 T15
- 31881 SCHLIER, T. Grundlage der wirtschaftserleichterung für jeden betrieb. Landw. Wchnbl. 139: 4. Jan. 1, 1949. 18 L2338
- Germany.
- 31882 SCHWAIM, H. W. Plan cash crops now! West. Dairy J. 5(3): 21, 26-27. Jan. 1, 1949. 44.8 W524
- 31883 SCIENCE adds to farm problem; new methods boost output—and surpluses. U. S. News 26(1): 45-47. Jan. 7, 1949. 280.8 Un33A
- 31884 SHULTIS, A. A program for farm management extension. West. Farm Econ. Assoc. Proc. (1948) 21: 149-153. 280.9 W527P
- 31885 SIVASWAMY, K. G. State and co-operative farming. Madras, 1948. 7 p. 280.2 Si92
- 31886 SKVORTSOV, I. M. Obshchee zemledelie [General agriculture]. Ed. 4, rev. Moskva, Sel'khozgiz, 1948. 430 p. (Uchebniki i Uchebnye Posobiia dlia Sel'skokhoziaistvennykh Tekhnikumov) 33.31 Sk7
- 31887 SLAVKIN, M. A., and VOLOVIK, A. E. Metody revizii MTS [Method of inspecting machine tractor stations]. Moskva, Gosfinizdat, 1948. 82 p. 281.179 SL1
- 31888 STAROVA, A. An agreement and its fulfillment. (In Russian.) Mashinno-Traktorn. Stanfs. 7(10): 5-8. Oct. 1948. 58.8 M11
- Between machine-tractor stations and collective farms.
- 31889 STEWART, E. Organisation of arable farms, 1939-40 and 1946-47 output. Scot. Dept. Agr. Farm Econ. 16: 6-7. Autumn 1948. 281.9 Sco3F
- 31890 STOUT, R. W. How we increased profits through farm planning. Ky. Farmer 85: 4-6. Jan. 1949. 6 F2237
- 31891 STROHM, J. Lumps in the stomach of the Russian Bear; a hard core of farmer resistance blocks communist moves toward a collectivized agriculture in satellite Poland and Czechoslovakia. Country Gent. 119 (2): 28-29, 130-135. Feb. 1949. 6 C833
- 31892 SVENSKA VALL- OCH MOSSKULTURFÖRENINGEN. Studiegårdsverksamheten i Norrland; redogörelse från Svenska Vall- och Mosskulturföreningen fjärde arbetsåret 1945-1946 [Annual report of the Swedish Meadow and Peat Land Cultivation Society. Test farm activity 1.5.1945-30.4.1946]. Uppsala, 1947. 156 p. 281.9 Sv2
- 31893 TENNENT, R. B. A new farming pattern. New Zeal. Dairy Exptr. 24(6): 11-14. Dec. 1948. 44.8 N484
- Great Britain.
- 31894 TYRER, T. B. Weatherproof farming for town milk production. New Zeal. Dairy Exptr. 24(5): 9, 11-12. Nov. 1948. 44.8 N484
- 31895 UMBARGER, M. What they did at Facelift Farm. Land 7: 320-321, 323. Autumn 1948. 279.8 L22
- One-day renovation of the Thrasher farm in Frederick County, Maryland.



31896 U. S. S. R. SOVET MINISTROV. O merakh po uluchsheniū organizatsii, povysheniū proizvoditel'nosti i uporiadocheniū oplaty truda v kolkhozakh [Measures to improve management, increase production, and regulate payment of labor on collective farms]. Moskva, Sel'khozgiz, 1948. 223 p. (Postanovlenie. 1259) 283 Un3999

31897 VIEL, R. Sauver la montagne. Libération Paysanne 5(196): 2. Dec. 30, 1948. 14 L61

31898 VIERI, F. Production profits and farmer burdens. (In Italian.) Terra [Firenze] 60(5): 1. Jan. 30, 1949. 16 T274  
In share farming.

31899 VINE, V. Best way to profits in '49; top farm managers show you how to beat the squeeze between high costs and low prices. Farm J. 73: 22, 24. Jan. 1949. 6 F2212

31900 WATSON, S. J. Scottish agricultural advisory services. Brit. Agr. B. 1: 49-53. Summer 1948. 10 B776

31901 WEEKS, D. Economic criteria for land development and conservation on private lands. West. Farm Econ. Assoc. Proc. (1948) 21: 98-106. 280.9 W527P

31902 WEND, M. Productive homesteads. Land 7: 454-456. Autumn 1948. 279.8 L22

31903 WHITE, H. Closer settlement. Organic Farming Digest 1(4): 5-7; (6): 4-7. Jan., July/Sept. 1947. 56.8 Or32

Farm management.

31904 WHITFIELD, W. R. Good management makes profits. Amer. Poultry J. 79(12): 10, 46. Dec. 1948. 47.8 Am32

31905 WITTERN, K. Die leistungsreserven im landwirtschaftlichen betrieb. Neue Mitt. f. die Landw. 3: 461-462. Dec. 15, 1948. 18 N39

#### Bookkeeping and Records

31906 ERICSON, F. L. Farm accounting. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige 19(1): 3. Jan. 1, 1949. 11 J762

31907 JESSEN, A. Das "richtige" bilanzierungsjahr im gewerbebetrieb, bauernhof und forstamt. Forstw., Holzw. 1: 257-259. Dec. 1/15, 1947. 99.8 F7793

31908 VOSKUIL, W. C. Farm records help set records. Wis. Agr. & Farmer 76: 5. Jan. 1, 1949. 6 W751

31909 WILLIAMS, D. B. Farm records. So. Austral. Dept. Agr. J. 52: 71-73. Sept. 1948. 23 So84

#### Costs and Returns

31910 A PROPOS du prix du lait. Inform. Maroc. 401: 1, 4. Sept. 18, 1948. 281.8 In3

31911 ADAIR, W. Production costs of dried grass. Farming News & North Brit. Agr. 101(2): 3. Jan. 7, 1949. 10 N82

31912 BAILEY, C. W. Future of agriculture depends on production earning reasonable profit. Tenn. Banker 37(1): 12, 14-15. Jan. 1949. 284.8 T25

31913 BARR, G. W. Prices and costs in the Arizona dairy industry. Ariz. Agr. Expt. Sta. Mimeog. Rpt. 86, 15 p. Oct. 1948. 100 Ar4M

31914 BISSET, G. B., and PEARCE, J. Costs and returns from potato production in the Southern Province in 1947. Reading, England. U. Dept. Agr. Econ. Misc. Cost Studies 12, 7 p. Nov. 1948. 281.9 R22M

31915 BISSET, G. B., and MOLLETT, J. A. Costs and returns from sugar beet production in the Southern Province in 1947. Reading, England. U. Dept. Agr. Econ. Misc. Cost Studies 11, 9 p. Nov. 1948. 281.9 R22M

31916 BLACK, G. K. R. Milking life and cow replacement costs. Scot. Dept. Agr. Farm Econ. 16: 10. Autumn 1948. 281.9 Sco3F

31917 BREMNER, J. What is profit? Milk Plant Monthly 38(2): 69. Feb. 1949. 44.8 C864

31918 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 citrus production cost study; lemons & grapefruit, San Bernardino County. Berkeley, 1948? 12 p. 275.29 C12En

31919 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 lemon management study, Los Angeles County. Berkeley? 1948? 275.29 C12En

Chiefly costs and returns.

31920 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1948 sugar beet production; cost analysis, Imperial County. Berkeley, 1948. 5 p. 275.29 C12En

31921 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 Valencia orange management study, Los Angeles County. Berkeley? 1948? 275.29 C12En  
Chiefly costs and returns.

31922 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Red kidney bean cost and management study, San Joaquin County, 1947. Berkeley, 1948? 7 p. 275.29 C12En

31923 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Solano County Bartlett pear management study, 1948. Berkeley, 1948? 7 p. 275.29 C12En  
Chiefly costs and returns.

31924 CARUGHI D., S. El cultivo del maíz en la hacienda "El Ingenio." Agronomía [Lima] 13(54): 69-76. 1948. 9.8 Ag83  
Includes cost data.

31925 CLINE, L. E. Longer feeding, more weight improved grade, help make more profit possible. Norbest Turkey News 13(6): 1, 7. Dec. 1948. 47.38 N75

31926 DENMARK. LANDØKONOMISKE DRIFTS-BUREAU. Farm account results in Danish agriculture in the year 1946-47. (In Danish.) Denmark. Landøkon. Driftsbur. Undersøg. over Landbr. Driftsforh. 31(2), 111 p. København, 1948. 11 D414

31927 GAZTAMBIDE ARRILLAGA, C. Factores que aumentan el costo de producción de la leche. Rev. de Agr. de Puerto Rico 39(1): 80-82. Jan./June 1948. 8 R325

31928 GROVE, E. W. Measurement of farm income and expenditure. Washington, U. S. Bur. Agr. Econ., 1948. 15 p. 1.941 A2G91

31929 HAZALEUS, M. Pork produces profits. Rec. Stockman, Ann. Ed. 59(52): 145, 147, 149. Dec. 23, 1948. 49 D43

31930 HEMPEL-HEDEPER. Die wirtschaftlichkeit des schafes. Süddeut. Schäferzeitg. 38: 184. Oct. 30, 1948. 45.8 Su2  
Germany.

31931 HJELM, L. Den jordbruksekonomiska kostnadsberäkningens innebörd och grundförutsättningar [The purposes and essentials of farm cost investigations]. Lund, Berlingska Boktryckeriet, 1948. 170 p. 281 H64

31932 HOCHMUTH, H. R., and GOODSSELL, W. D. Commercial family-operated cattle ranches, Intermountain Region, 1930-47; organization, costs, and returns. U. S. Bur. Agr. Econ. F. M. 71, 29 p. Nov. 1948. 1.941 L6F22

31933 JOHNSON, S. E. Break-even points in farming. Agr. Situation 33: 1-4. Jan. 1949. 1 Ec7Ag  
Costs and returns.

31934 KONIG, MRS. K. There's money in rearing calves. Dairy Farmer [Ipswich] 22(1): 20. Jan. 1949. 44.8 D1414

31935 KUHLMAN, G. W., and MUMFORD, D. C. Cost of producing loganberries (for processing) in the Willamette Valley, Oregon. Oreg. Agr. Expt. Sta. C. Inform. 443, 7 p. Dec. 1948. 100 Or3C

31936 LONG, W. H. Costs of growing spring oats in two districts of Yorkshire, 1947. Leeds U. Farmers' Rpt. 80, 11 p. Dec. 1948. 281.9 L51

31937 LONG, W. H. Costs of growing wheat on some Holderness farms: 1947. Leeds U. Farmers' Rpt. 79, 15 p. Nov. 1948. 281.9 L51

31938 MORRISON, E. M. Costs and returns from peach production, selected areas, Utah, 1947. Utah. Agr. Expt. Sta. B. 334, 28 p. Oct. 1948. 100 Ut1

31939 MUIR, M. S. Features of some profitable dairy herds. Scot. Dept. Agr. Farm Econ. 16: 10-11. Autumn 1948. 281.9 Sco3F  
Costs and returns.

31940 PADBERG, K. Die betriebsausgaben der landwirtschaft. Neue Mitt. f. die Landw. 3: 55-56. Feb. 21, 1948. 18 N39

31941 PARODNECK, M. Cost of production and milk prices. Northeast. Union Farmer 8(2): 6. Feb. 1949. 280.28 F227

31942 PINGREY, H. B. Will prospective cost factors make lamb feeding profitable? West. Farm Life 50(21): 55, 56. Nov. 1, 1948. 6 R153



31943 RENOM, J. A. Los costos de producción. Res 16: 23037. Nov. 20, 1948. 286.85 R31

#### Livestock.

31944 RINTELEN, P. Betriebswirtschaftliche gedanken zur futterwirtschaft. Nachr. f. Beratung u. Ausbildung in der Landw. 1: 13-16. Oct. 1948. 18 N11

31945 SHEWELL-COOPER, W. E. Fruit-growing possibilities. Estate Mag. 49: 21-23. Jan. 1949. 10 Es8

Cost of establishing an orchard and varieties of berries.

31946 SPENCER, L. The truth about profits. Amer. Milk Rev. 11(2): 2-4, 6, 42-44. Feb. 1949. 44.8 Am38

31947 STODART, J. A. Harvesting costs compared. Farming News & North Brit. Agr. 100(52): 3. Dec. 17, 1948. 10 N82

31948 THULLBERRY, H. A. Citrus production problems. Citrus Indus. 30: 20-21. Jan. 1949. 80 C49

#### Costs and returns.

31949 URTEL, J. Ziegenhaltung lohnt! Saat u. Ernte 3(12): 1-3. Dec. 1948. 18 Sa12

#### Costs and returns.

31950 WALSH, F. P. To help Britain we must keep costs down and primary production up. New Zeal. Dairy Exptr. 24(5): 41. Nov. 1948. 44.8 N484

31951 WATSON, I. Triangles of livestock production and their effect on the returns. N. Mex. Stockman 14(1): 64, 66. Jan. 1949. 49 N462

#### Breeding, feeding and management.

31952 WILCOX, R. H. Crop production costs in 1947. Ill. Farm Econ. 162/163: 753-758. Nov./Dec. 1948. 275.28 IL5

31953 WINNER, E. B. What Missouri farm records show for 12 year period. Amer. Poultry J. 79(12): 32-33. Dec. 1948. 47.8 Am32

31954 WYLLIE, J. Investigation into farming costs of production and financial results; financial results in sheep husbandry. Wye Col. Dept. Econ. Rpt. 42, p. 143-180. Oct. 1948. 280.9 W97

31955 ZENTRALVERBAND DEUTSCHER RINDER-ZÜCHTER. Die erzeugungskosten der milch. Hannover, Landbuch-verlag, 1947. v. 1, 15 p. 43.9 Z4

### Land Settlement and Colonization

31956 ANDREWS, S. Scratching to eat; the problem of expellees in western Germany. Land 7: 412-417. Autumn 1948. 279.8 L22

#### Resettlement efforts.

31957 CALLAGHAN, A. R. War Service Land Settlement Scheme with special reference to dairying. So. Austral. Dept. Agr. J. 52: 65-70. Sept. 1948. 23 So84

31958 ERBS, K., ed. Neubauernsiedlung und wieder-aufbau des landes. Berlin, Bauhafter Verlag, 1947. 22 p. 282.2 Er1

31959 GREAT BRITAIN. BRITISH GUIANA AND BRITISH HONDURAS SETTLEMENT COMMISSION. Report. London, H. M. Stationery Off., 1948. 359 p. (Gt. Brit. Parliament. Papers by command. Cmd. 7533) 280.171 G7912

31960 KELLY, D. G. Pitfalls in land settlement on Kangaroo Island. So. Austral. Dept. Agr. J. 52: 189-191. Nov. 1948. 23 So84

31961 KÖNEMANN, E., ed. Siedlung als aufgabe der inneren kolonisation. Lüneburg, Ger., Kinau, 1947. 32 p. (Schriftenreihe für Innere Kolonisation. 2) 282.2 K832

31962 KÖNEMANN, E., ed. Zeitprobleme der inneren kolonisation. Lüneburg, Ger., Kinau, 1947. 31 p. (Schriftenreihe für Innere Kolonisation. 1) 282.175 K83

31963 LYONS, D. B. Homestead days. Dakota Farmer 68(24): 6-7. (To be cont.) Dec. 18, 1948. 6 D14

31964 URUGUAY. ASAMBLEA GENERAL. SENADO. Instituto Nacional de Colonización. Ley No. 11.029 da 12 de enero de 1948; informe y proyecto de ley de la Comisión Especial de Reforma Agraria del Senado y discusión parlamentaria en dicho cuerpo. Montevideo, Impr. Nacional, 1948. 334 p. 282.2 Ur8

### Land Tenure

31965 ADAMS, R. L. The changing farm rental picture. West. Grower & Shipper 20(2): 16-17. Jan. 1949. 280.38 W52

31966 ANDALÒ, G. The laws on agrarian contracts: production and returns. (In Italian.) Gior. di Agr. 58: 347-348. Dec. 12, 1948. 16 It1G

#### Italy.

31967 BASSOLS, N. Estudiemos la cuestión agraria [Mexico]. Rev. de Econ. 12(1): 6-7. Jan. 15, 1949. 280.8 R3293

#### Land reform.

31968 BATES, R. Better leases—insurance for the future. Prairie Farmer, Ind. Ed. 121(2): 6, 54. Jan. 15, 1949. 6 P883C

31969 BEAL, G. M. Farm property ownership and disposition of estates in Maryland. Md. Agr. Col. Ext. B. 121, 20 p. Sept. 1948. 275.29 M36B

31970 BERNASCONI, G. End of share farming [Italy]? (In Italian.) Gior. di Agr. 58: 356. Dec. 19, 1948. 16 It1G

#### Contracts.

31971 BICKEL, W. Swiss land distribution and land law. Indian J. Agr. Econ. 3(2): 11-16. Sept. 1948. 281.8 In2

31972 BODE, A. Bodenreform. Offenbach, Drott, 1947. 67 p. (Aktuelle Schriften, 18) 282.175 B63

31973 BUTTAZZONI, G. The agrarian reform. III. (In Italian.) Agr. Bresciana 1(41): 1-2. Oct. 13, 1948. 16 Ag89

31974 BUTZ, V. New problems in farm leases. Successful Farming 46(11): 128, 130-132. Nov. 1948. 6 Su12

31975 CANEVARI, E. A provision to modify the small peasant property [Italy]. (In Italian.) Gior. di Agr. 58: 339. Dec. 5, 1948. 16 It1G

31976 CARRARA, E. Swiss draft bill on the retaining of rural landed property. Food & Agr., Internatl. Law J. 3: 49-54. Jan./June 1948. 281.8 F732

31977 CARTER, J. Man's place in the sun. Agr. Hist. 22: 209-220. Oct. 1948. 30.98 Ag8

#### History of land tenure.

31978 DANGER, F. Cours de législation et économie rurales. Livre 1. Le bornage. Ed. 8, corr. Paris, Éditions Eyrolles, 1948. 307 p. 281.174 D21

31979 FAURE, J. Le statut du fermage et du métayage en danger malgré notre activité en 1948. Paysan du Sud-Ouest 5(193): 2. Jan. 1, 1949. 14 P292

#### France.

31980 FELICE, P. DE. Le calcul du loyer d'habitation. Bouches du Rhone Agr. 22(993): 23. Jan. 1, 1949. 14 B662

31981 FERNÁNDEZ Y FERNÁNDEZ, R. La reforma agraria en Cuba. Agrotecnia 2: 677-692. Oct.-Nov. 1948. 8 Ag825

31982 FIGL. Bodenreform muss bauerntum stärken. Burgenländische Bauernbündler 1(22): 1-2. Nov. 25, 1948. 18 B91

31983 FISCHER, K. Zwei jahre demokratische bodenreform. Meissen, Voco, 1947. 16 p. (Republikanische Bibliothek) 282.175 F53

31984 FRANCE. DIRECTION DE LA DOCUMENTATION. Perspectives politiques, économiques et sociales du Japon d'après-guerre (sources japonaises). 2. France. Dir. de la Doc. Notes Doc. et Études 1037, 16 p. Dec. 16, 1948. 280.9 F843

#### Includes the agrarian reform.

31985 GANTZ, H. L. Better farming on rented acres. Farm & Ranch 68: 16, 19. Jan. 1949. 6 T31

#### Tenant-landlord relationship.

31986 HALL, I. F. Here's practical plan for farm transfer; property appraisals and interest rates should help both father and son. Wis. Agr. & Farmer 75(20): 20. Oct. 16, 1948. 6 W751

31987 HANOVER (PROVINCE) LANDWIRTSCHAFTS-KAMMER. Die bodenreform im spiegel der presse. Hannover, Landbuch-Verlag, 1947. 167 p. (Its Schrift-enreihe. 8) 282.175 H19

31988 HUFFMAN, R. E. On the Plains, small farms may be big. Land 7: 452-453. Autumn 1948. 279.8 L22

31989 INDIAN SOCIETY OF AGRICULTURAL ECONOMICS. MADRAS BR. Abolition of inams. Madras, 1947. 32 p. 282.182 In24

31990 JANDOLO, E. Think of the consumer! (In Italian.) Risveglio Agr. 7: 347-348. Oct. 15/31, 1948. 16 R49

#### Italian land reform.



- 31991 KALLBRUNNER, H. Ein neues schweizer bodenrecht. *Landwirtschaft* 1948: 282. Oct. 23, 1948. 19 L235
- 31992 KAVI, C. D. Land problems of Gujarat. II. *Indian J. Agr. Econ.* 3(2): 27-40. Sept. 1948. 281.8 In2 Tenure.
- 31993 LARA, F. P. Las liquidaciones de rentas, pactadas en especie, en los contratos de arrendamiento. *Siembra* 1948(10): 44-45. Oct. 1948. 15 S11 Spain.
- 31994 LÜBKE, H. Bodenreform; siedlung erzeugungssteigerung. Lüneburg, Kinau, 1948. 16 p. (Schriftenreihe für Innere Kolonisation, 3) 282.175 L96
- 31995 MAC COLL, E. D. Arrendamientos rurales [Uruguay]. *Diario Rur.* 8(840): 12. Jan. 12, 1949. 9.9 D54
- 31996 MCCOY, J. H. The stock-share lease. *Kans. Agr. Expt. Sta. C.* 252, 45p. Nov. 1948. 100 K13S
- 31997 MANZINO, G. Notes on cadastral practice. II. Subjective changes. (In Italian.) *Genio Rur.* 11: 348-363. Oct. 1948. 281.8 R522
- 31998 MARYLAND. COMMISSIONER OF THE LAND OFFICE. Biennial report, 1946/48. 1948. 34 p. 252.37 L22R Records.
- 31999 MASSOT, R. Quelques considérations pratiques à propos du remembrement. *Libération Paysanne* 5(197): 6. Jan. 6, 1949. 14 L61
- 32000 MENG, C. Y. W. Farm tenancy in China. *China Weekly Rev.* 112: 114-115. Jan. 1, 1949. 280.8 C445
- 32001 MERÖ, F. The land reform in Hungary. *Amer. J. Econ. & Sociol.* 8(1): 21-24. Oct. 1948. 280.8 Am393
- 32002 MICHIGAN. AGRICULTURAL EXPERIMENT STATION. Public land ownership in the Lake States. *Mich. Agr. Expt. Sta. Spec. B.* 351, 28 p. Aug. 1948. 100 M58S
- 32003 MONTAGNE, R. La cour de cassation devant le problème de l'admission ou de l'exclusion des preneurs étrangers au bénéfice du statut des baux ruraux. *Prog. Agr. et Vitic.* 1949: 16-19. Jan. 2/9, 1949. 14 P94
- 32004 MONTAGNE, R. Exemples de jugements déniaut à des preneurs étrangers le bénéfice du statut des baux ruraux, en dehors des cas prévus par l'article 61. *Prog. Agr. et Vitic.* 1948: 305-308. Dec. 5/12, 1948. 14 P94 France.
- 32005 MONTAGNE, R. Fin et bilan de la revue jurisprudentielle: relative à la situation des étrangers vis-à-vis du Statut des Baux Ruraux. *Prog. Agr. et Vitic.* 1948: 360-362. Dec. 26, 1948. 14 P94
- 32006 MONTAGNE, R. Jugements accordant le bénéfice du Statut des Baux Ruraux à des Preneurs Etrangers en dehors des cas prévus par l'Article 61. *Prog. Agr. et Vitic.* 1948: 329-333. Dec. 19, 1948. 14 P94
- 32007 MONTAGNE, R. Le statut du fermage et du métayage et les ressortissants étrangers. *Prog. Agr. et Vitic.* 1948: 260-262. Nov. 7/14, 1948. 14 P94
- 32008 MOODY, V. A. Europe's recurrent land problem. *Agr. Hist.* 22: 220-232. Oct. 1948. 30.98 Ag8
- 32009 NERI, G. Article 44 of the constitution, land reform, and property limitation; don't thrust Italian agriculture into chaos. (In Italian.) *Bologna Agr.* 1(45): 1-2. Nov. 27, 1948. 16 B634
- 32010 OSWALD, W. Das notwegrecht. *Drescher u. Pflüger* 1(6): 8-9. Dec. 15, 1948. 58.8 D81 Germany.
- 32011 OURLIAC, P. Le prix des fermages. *Blé et le Vin* 25(1116): 1, 3. Dec. 26, 1948/Jan. 9, 1949. 14 B61 France.
- 32012 PACKARD, W. E. The Land Authority and democratic processes in Puerto Rico. *Rfo Piedras, P. R., Editorial Universitaria*, 1948. p. 49-101. 282.14 P12 Land reform.
- 32013 PAPASOGLI, G. How the share farming contract was born. (In Italian.) *Terra [Firenze]* 59(47): 3. Nov. 20, 1948. 16 T274
- 32014 PASSERINI, O. Injuries to peasants and the national economy [Italy]. (In Italian.) *Gior. di Agr.* 59: 2. Jan. 2, 1949. 16 It1G On the share farming reforms.
- 32015 PELLACANI, G. Rents of Bologna compared with those of neighboring provinces. (In Italian.) *Bologna Agr.* 1(38): 1. Oct. 9, 1948. 16 B634
- 32016 PERDISA, L. Technical and economic report in the interests of the tenant, with regard to the application of the fair rent law. (In Italian.) *Genio Rur.* 11: 452-466. Dec. 1948. 281.8 R522 Italy.
- 32017 PRESTIANI, N. Agrarian reform in Sicily. (In Italian.) *Ital. Agr.* 85: 607-613. Nov. 1948. 16 It1
- 32018 RAMBAUD, P. Le remembrement. *Jura Agr.* (n. s.) 14: 1; 17: 1. Nov. 15, 1948, Jan. 1, 1949. 14 J97
- 32019 REINEKE, Das bodenreform- und das siedlungsgesetz (BRG und SG). *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 329-331. Nov. 27, 1948. 18 L2346
- 32020 RIENKS, A. The re-planning of holdings in the Netherlands. *Farm Econ.* 6(1/2): 16-21. 1948. 281.8 F223
- 32021 RIZZO, P. Agrarian reform. (In Italian.) *Voce dei Campi, dei Mercati e delle Off.* 38(1): 1. Jan. 5, 1949. 16 V85
- 32022 ROCHET, W. Le nouveau mode de détermination du prix des fermages. *Terre* 220: 3. Dec. 30/Jan. 5, 1949. 281.8 T27
- 32023 RUSSELL, B. Landlord-tenant problems on dairy farms. *Milkman* 1949: 1, 4. Jan. 1949. 44.8 M5962
- 32024 RUSSELL, B. Long or short-term lease? *Milkman* 1949: 4. Feb. 1949. 44.8 M5962
- 32025 SAVATIER, R. French reform of the statute on farming leases. *Food & Agr., Internatl. Law J.* 3: 5-16. Jan./June 1948. 281.8 F732
- 32026 SCHOFF, L. H. One farm or two? An analysis of structural changes that would make possible a general application of mechanized farming in the United States. n. p., 1948. 91 p. Ref. 281.12 Sch6 Thesis—Columbia Univ.
- 32027 SCOTLAND. SCOTTISH LAND COURT. Abstract of proceedings under the Small Landholders (Scotland) Acts 1886 to 1931, 1947. London, 1948. 169 p. 282.9 Sco8
- 32028 SERPIERI, A. Urgent provisions. (In Italian.) *Gior. di Agr.* 59: 1. Jan. 2, 1949. 16 It1G Italian agrarian reform.
- 32029 SHNEERSON, A. I. Agrarny vopros vo Frantsii [Agrarian problem in France]. Leningrad, Gos. Izd-vo Polit. Lit-ry, 1948. 414 p. 282.174 Sh6
- 32030 SIEVERT, H. H. Verkehr mit land- und forstwirtschaftlichen grundstücken. *Württemberg. Wchnbl. f. Landw.* 116: 38. Jan. 22, 1949. 18 W96
- 32031 SIMONNEAU, P. La propriété foncière dans le périmètre irrigable du Sig. *Rev. Agr. de l'Afrique du Nord* 46: 574-577. Nov. 19, 1948. 80 R326
- 32032 SPAIN. INSTITUTO NACIONAL DE ESTADÍSTICA. Estadística de propietarios de fincas rústicas de España, avance referido al primer semestre de 1947, provincia de Santa Cruz de Tenerife. 1948. 81 p. 263 In73E
- 32033 STOLTE, F. Gedanken über ein bauerntestament. *Landw. Wchnbl.* 138: 333. Oct. 23, 1948. 18 L2338 Land inheritance in Germany.
- 32034 TARTUFOLI, A. Carry out the agricultural program. (In Italian.) *Gior. di Agr.* 59: 18. Jan. 16, 1949. 16 It1G The share farming contract reform in Italy.
- 32035 TOSATTI, R. M. Reform or regress? (In Italian.) *Agr. Bresciana* 1(45): 1. Nov. 10, 1948. 16 Ag89 On the reform of share farming leases.
- 32036 TRANS-JORDAN. DIRECTOR OF LANDS AND SURVEYS. Land settlement in Trans-Jordan, by G. F. Walpole. n. p., n. d. 27 p. 2.2 T68 Tenure.
- 32037 TREMOLANTI, L. The workers of the land will fight for agrarian reform and share farming lease reform. (In Italian.) *Vita nei Campi* 4(1): 1. Jan. 1, 1949. 16 V83
- 32038 TSCHIRITSCH. Das bergbauerntum in zahlen. *Kärntner Bauer* 98: 415. Dec. 20, 1948. 19 K14 Number and size of farms.



32039 U. S. BUR. OF THE CENSUS. Graphic summary of farm tenure in the United States: cooperative report. Washington, 1948. 40 p. 157.41 G762.

32040 VIERI, F. Still the peasants. (In Italian.) Terra [Firenze] 60(4): 1. Jan. 23, 1949. 16 T274  
On the share farming contract reform.

32041 VIERI, F. Strait jackets. (In Italian.) Terra [Firenze] 59(47): 1. Nov. 20, 1948. 16 T274  
The share farming leases.

32042 VIERI, F. With beating drum. (In Italian.) Terra [Firenze] 59(50): 1. Dec. 12, 1948. 16 T274  
On the reform of share farming leases.

32043 ZAPPI RECORDATI. More on the agrarian reform [Italy]. (In Italian.) Voce dei Campi 3(32): 1. Dec. 15, 1948. 16 V852

#### Land Utilization

32044 BEARD, C. N. Land forms and land use east of Monterey Bay. Econ. Geog. 24: 286-295. Oct. 1948. 278.8 Ec7

32045 CHANG, C. Y. Land utilization and settlement possibilities in Sinkiang. Geog. Rev. 39: 57-75. Jan. 1949. 500 Am35G

32046 CONKLIN, H. E., and PASTO, J. K. Broome County [New York] studies land-use problems. Farm Res. [N. Y. State Sta.] 15: 8-9. Jan. 1949. 100 N48A

32047 CONKLIN, H. E., and BERG, S. O. A preliminary report on developments in land classification methods. N. Y. Agr. Col. A. E. 688, 75 p. Dec. 1948. 281.9 C81

32048 DAMBACH, C. A. The relative importance of hunting restrictions and land use in maintaining wildlife populations in Ohio. Ohio J. Sci. 48: 209-229. Ref. Nov. 1948. 410 Oh3

32049 DIX, E. S. Land utilization of Prince Edward County, Ontario. Clark U. Abs. Diss. and Theses 1948: 66-68. 241.8 C54

32050 HAAR, C. M. Appeals under the Town and Country Planning Act, 1947. Pub. Admin. 27(1): 37-44. Spring 1949. 280.8 P963

32051 HARRINGTON, L. Poor land makes poor people. Farmer's Mag. 46: 7, 38, 39, 42-43. Jan. 1949. 7 C165

Land use and farm practices.

32052 HORTON, A. C., JR. Cadastral surveys and resurveys. Amer. Soc. Civil Engin. Proc. 75(1): 123-128. Jan. 1949. 290.9 Am3P

32053 JOHNSON, E. The disastrous Town Planning Act. Land and Liberty 56(656): 6. Jan. 1949. 282.8 L222

32054 KELLOGG, C. E. Who says the earth can't feed her people? Successful Farming 46(11): 31, 106-109. Nov. 1948. 6 Sul2

Chiefly land utilization and soil management practices.

32055 KING, K. The Town and Country Planning Act and the farmer. Gt. Brit. Min. Agr. Agriculture 55: 403-409. Dec. 1948. 10 G79J

32056 LEE, A. T. M., and AULL, G. H. Land use and soil conservation in the Broad River Soil Conservation District of South Carolina. S. C. Agr. Expt. Sta. B. 373, 68 p. June 1948. 100 So8

32057 LOUGHRY, F. G. Land features influencing use in the Middle Allegheny Plateau. J. Soil & Water Conserv. 3: 169-170, 175, 179. Oct. 1948. 56.8 J822

32058 MCNICOLL, W. Town and Country Planning Act. 7. Scottish property owners. Co-op. Rev. 23(1): 19-20. Jan. 1949. 280.28 C7823

32059 MESTRE, L. Patrimoine pastoral et patrimoine forestier. Mouton 3: 126-127. Dec. 1948. 45.8 M86

Utilization of abandoned land in France for reforestation and sheep raising.

32060 MORETTI, A. New aspects in the utilization of mudbank lands. (In Italian.) Not. Agr. [Mantova] 4(47): 1-2. Nov. 19, 1948. 16 N845

32061 ORR, SIR J. B. The Town and Country Planning Act. I. Land & Liberty 55: 199-201. Nov./Dec. 1948. 282.8 L222

32062 PREISSLER, L. Landwirtschaftliche zwischen-nutzung im walde. Forstw., Holzw. 2: 35-37. Feb. 1, 1948. 99.8 F7793

32063 ROE, J. Wasted acres. Successful Farming 47: 34-35. Jan. 1949. 6 Sul2

32064 SWANSON, C. L. W. Land use and soil conservation in Japan. J. Soil & Water Conserv. 3: 159-164. Ref. Oct. 1948. 56.8 J822

32065 UPCHURCH, M. L. Oregon's capacity to produce. Oreg. Agr. Expt. Sta. B. 459, 20 p. Oct. 1948. 100 Or3

Land utilization.

32066 WAIBEL, L. Von Thünen's theory on the influence of market distance in relation to land use. (In Portuguese.) Rev. Bras. de Geog. 10(1): 3-40. Jan./Mar. 1948. 278.8 R32

Summaries in French, Spanish, Italian, English, German, and Esperanto.

32067 WESTON, W. J. Explaining the Town and Country Planning Act. 5. Compensation for designated land. Smallholder 80(23): 14. Jan. 7, 1949. 10 Sm1

32068 WINSLOW, D. C. Geographical implications of soil conservation districts in the southwest: a land use study. Clark U. Abs. Diss. and Theses 1948: 31-35. 241.8 C54

#### Land Values and Valuation

32069 ANCÍZAR, E. Cuanto valen comercialmente los terrenos explotados. Rev. Nac. de Agr. [Bogotá] 41(508): 20-21. Aug. 1947. 9.4 R32

32070 ANCÍZAR, E. La propiedad rural en Colombia. Rev. Nac. de Agr. [Bogotá] 41(506): 18-19. June 1947. 9.4 R32

Number and value of properties by departments.

32071 ANTONIETTI, A. The valuation of lands and equipment for inheritance purposes. (In Italian.) Genio Rur. 11: 436-442. Dec. 1948. 281.8 R522  
Italy.

32072 CUVILLIER, J. Expertises rurales; foncières, agricoles, forestières. Paris, Maison Rustique, 1948. 678 p. 284 C98

32073 84 FARM land price increase in year. Banking 41(8): 62, 89. Feb. 1949. 284.8 Am3

32074 KUHLMAN, G. W. An approach to farm real estate appraisal. West. Farm Econ. Assoc. Proc. (1948) 21: 134-137. 280.9 W527P

32075 MURRAY, W. G. Land price rise slows down. Iowa State Col. Agr. Ext. Iowa Farm Sci. 3(7): 9-12. Jan. 1949. 275.28 Io94

32076 SHATTUCK, C. B. An approach to farm real estate appraisal. West. Farm Econ. Assoc. Proc. (1948) 21: 129-133. 280.9 W527P

32077 WELLER, E. P. Agricultural valuations under the Agriculture Act, 1947. n. p., 1948. 10 p. 282.171 W45

#### POPULATION

32078 ANDERSON, W. A. The control of child-spacing in university graduate families. Rur. Sociol. 13: 307-314. Sept. 1948. 281.28 R88

32079 AUJAC, H. L'exode rural considéré comme transfert de capitaux. Acad. d'Agr. de France. Compt. Rend. 34: 873-874. Oct. 27/Nov. 3, 1948. 14 P215Bc

32080 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Census of the Commonwealth of Australia, 30th June 1947; summary for the State of Victoria. 1948. 11 p. (Census B. 10.) 271 Au72B  
Includes agricultural population.

32081 BAKER, O. E. People and food. Land 7: 361-367. Autumn 1948. 279.8 L22

Population in relation to food supply.

32082 BENNETT, M. K. Population and food supply: the current scare. Sci. Monthly 68: 17-26. Ref. Jan. 1949. 470 Sci23

32083 CANADA. BUR. OF STATISTICS. Eighth census of Canada, 1941. v. 5. Dwellings, households and families. Ottawa, 1947. 685 p. 253 C3338A  
Text in English and French.

Rural statistics included.

32084 CRABTREE, H. Security needed to keep youth on farm. Union Farmer 4(1): 4. Jan. 1949. 280.28 Un35

32085 FORREST, A. C. So you are going to leave the farm. Canad. Countryman 38(2): 24, 25. Jan. 22, 1949. 7 C833

32086 ITALIAN agricultural emigration to France. Internatl. Labour Rev. 59(1): 80-84. Jan. 1949. 283.8 In8

32087 KIRBY, R. H. Farm population is growing older. Farm Res. [N. Y. State Sta.] 15: 10. Jan. 1949. 100 N48A



32088 MARCHETTANO, E. Demographic density and reclamation. (In Italian.) *Agr. delle Venezie* 2: 384-388. May/June 1948. 16 Ag826

32089 MILHAU, J. Structure démographique du monde rural. *Libération Paysanne* 5(198): 6. (To be cont.) Jan. 13, 1949. 14 L61

France.

32090 PERU. MINISTERIO DE HACIENDA Y COMERCIO. DIRECCION NACIONAL DE ESTADISTICA. Censo nacional de población de 1940. Volumen VI. Departamentos: Ica, Huancavelica, Ayacucho. Lima, 1948? various paging. 255.8 Es8C

Includes statistics for population engaged in agriculture.

32091 SCHILZ, G. B. Rural population trends of Iowa as affected by soils. Clark U. Abs. Diss. and Theses 1948: 27-31. 241.8 C54

#### RURAL SOCIAL ORGANIZATION

32092 BECKER, M. G., and LOOMIS, C. P. Measuring rural urban and farm and non-farm cleavages in a rural consolidated school. *Sociometry* 11: 246-261. Aug. 1948. 280.8 So152

32093 BIDAU, L. Là où nous sommes, il n'y aura jamais de robots. *Libération Paysanne* 5(196): 3. Dec. 30, 1948. 14 L61

Mountain life.

32094 BUTRÓN, A. Missions for the social protection of the rural population of Ecuador. *Amér. Indig.* 9(1): 57-63. Jan. 1949. 446.9 In8A

Spanish summary.

32095 FAUNCE, D., and BEEGLE, J. A. Cleavages in a relatively homogeneous group of rural youth. *Sociometry* 11: 207-216. Aug. 1948. 280.8 So152

32096 GASCO, G. An agricultural program which may interest Italian veterinarians. (In Italian.) *Prog. Vet.* 3: 255-256. Aug. 15/Sept. 1, 1948. 41.8 P942

Conditions of rural life.

32097 GAVIÃO GONZAGA, A. Rural life in Holland. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 2(30): 4, 6. Dec. 1948. 280.28 C7856

32098 GROSS, N. Sociological variation in contemporary rural life. *Rur. Sociol.* 13: 256-269. Sept. 1948. 281.28 R88

Discussion, by T. W. Longmore, p. 269-271; rejoinder, N. Gross, p. 271-273.

32099 HAY, D. G. A scale for the measurement of social participation of rural households. *Rur. Sociol.* 13: 285-294. Sept. 1948. 281.28 R88

32100 HIRSCH, G. P. Rural social organization: an introduction. II. *Farm Econ.* 6(1/2): 10-16. 1948. 281.8 F223

32101 LINDSTROM, D. E. American rural life; a textbook in sociology. New York, Ronald Press, 1948. 385 p. 281.2 L642A

32102 LONGMORE, T. W. A matrix approach to the analysis of rank and status in a community in Peru. *Sociometry* 11: 192-206. Aug. 1948. 280.8 So152

32103 MCCLELLAN, MRS. B. Farm life on Swiss Croft Farm. *Bow'an Arrow* 5(1): 6. Jan./Feb. 1949. 44.8 B672

32104 MERRICK, E. Green Mountain farm. New York, Macmillan, 1948. 209 p. 281.2 M55

32105 SHEAHAN, H. B. Northern farm, a chronicle of Maine. New York, Rinehart, 1948. 246 p. 281.2 Sh3

32106 STANGERUP, H. The big estates and the great authors. (In Danish.) *Tolvmandsbladet* 20: 301-312. Dec. 1948. 11 T58

Life on large estates and its effect on writers.

32107 STOCKBURGER, S. Zu neuen ordnungen. *Württemberg. Wchnbl. f. Landw.* 116: 17-18. Jan. 8, 1949. 18 W96

Social planning.

#### Human Ecology

32108 ANDERSON, A. H., and VERGERONT, G. V. Rural communities and organizations; a study of group life in Wells County, North Dakota. *N. Dak. Agr. Expt. Sta. B.* 351, 80 p. June 1948. 100 N813

32109 CISNEROS CISNEROS, C. Comunidades indígenas del Ecuador. *Amér. Indig.* 9(1): 37-55. Jan. 1949. 446.9 In8A

English summary.

32110 CORTEZ, F. R. Arqueologia da região produtora do vinho do Porto [Archeology of the Port wine region]. *Inst. do Vinho do Porto. Caderno* 100, sup., 43 p. Apr. 1948. 390.9 Op5

32111 EGOROV, I. S. Khozhaeva zemli [The masters of the land]. Moskva, Moskovskii Rabochii, 1948. 51 p. (Opyt Geroev Sotsialisticheskogo Truda) 281.179 Eg7K

History of a collective farm village.

32112 FERNÁNDEZ Y FERNÁNDEZ, R. Las comunidades agrarias. *Agrotecnia* 2: 823-840. Dec. 1948. 8 Ag825

Cuba.

32113 FOX, L. K. The rural community and its school; a study of rural Chautauqua County, New York. New York, King's Crown Press, 1948. 233 p. Ref. 281.2 F83

32114 HOWARD, W. V. Authority in TVA land. Kansas City, Mo., Glenn, 1948. 186 p. 280.002 H83

32115 INTERSTATE COMMISSION ON THE DELAWARE RIVER BASIN. Incodel; a report on its activities for the year ending June, 1948. 1948. 47 p. 292.9 In83A

32116 LOOMIS, C. P. The most frequently chosen sociogram or the seduction of rural sociologists by the neighborhood theory. *Sociometry* 11: 230-234. Aug. 1948. 280.8 So152

32117 SZULC, T. Brazilian T. V. A. *Pan American* 9(9): 25-27. Feb. 1949. 280.8 P192

32118 TERRAL, R. Western conservation. *Antioch Rev.* 8: 404-409. Dec. 1948. 280.8 An82

Regional planning in the Missouri Valley.

32119 VIRGINIA. UNIVERSITY. EXTENSION DIV. These things we tried; a five-year experiment in community development. Charlottesville? 1947. 432 p. (Va. U. Ext., v. 25, No. 6) 280.089 V815T

32120 WILLEMS, E. Cunha: tradição e transição em uma cultura rural do Brasil [Cunha: tradition and transition in a rural culture of Brazil]. São Paulo, 1947. 240 p. 446 W66

#### Institutions

32121 ACKERMAN, J. Let's educate our rural youth for tomorrow. *Farm Policy Forum* 2(1): 50-51. Jan. 1949. 281.8 F2274

32122 ALANÍS PATIÑO, E. Servicios de informaciones agrícolas interamericanas. Caracas, Editorial Elite, 1947. 20 p. (Conferencia Interamericana de Agricultura. 3., Caracas, 1945. Comité Ejecutivo. Cuadernos verdes. Ser. internacional. 12) 281 AL12

32123 ARKANSAS. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. For abundant living; 1948 annual report, Extension Service. *Ark. Agr. Col. Ext. C.* 462, 27 p. Dec. 1948. 275.29 Ar4

32124 BADÍA, V. Las fiestas que los agricultores dedican a su triunfo sobre la naturaleza. *Agr. Levantino* 14(165): 13-14. Aug. 1948. 15 Ag85

32125 BARRON, L. How to develop publicity for the vo-ag department. *Better Farming Methods* 21(2): 26, 70. Feb. 1949. 58.8 B46

32126 BAUMGARTNER, E. Brauchtum und feste im bauernhaus. *Grüne* 76: 1402-1405. Dec. 24, 1948. 17 Sch9

Switzerland.

32127 BAYARD, A. W. More than forty years of growing success! (In Portuguese.) *Fazenda* 44(1): 30. Jan. 1949. 6 H11P

The history of the magazines La Hacienda and A Fazenda.

32128 BIGELOW, D. L. Farm women in important role. *Ext. Serv. Rev.* 20: 8-9. Jan. 1949. 1 Ex892Ex

Meeting of the National Home Demonstration Council in Tulsa, Okla.

32129 BONDEN, K. Norway's Agricultural College and the teaching of economics. (In Norwegian.) *Norsk Landbr.* 14: 463-464. Dec. 17, 1948. 11 N8122

32130 BRININGER, E. H. Library service to rural areas of Pennsylvania. *Pa. Grange News* 45(10): 8-9. Jan. 1949. 6 P38

32131 CHAPMAN, P. W. Pay rolls for southern towns; establishing agricultural industries and services. Chapel Hill, U. of N. C., 1948? 11 p. 281.002 C36P

32132 CHAPMAN, P. W. Veterans' farm training is paying dividends. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 64: 14, 86. Jan. 1949. 6 P945G



- 32133 CHEVALIER, A. L'enseignement agricole dans la France d'outre-mer. Acad. d'Agr. de France. Compt. Rend. 34: 934-935. Nov. 24/Dec. 1, 1948. 14 P215Bc
- 32134 CHEVALIER, A. Nécessité de l'organisation de l'enseignement secondaire de l'agriculture en France. Acad. d'Agr. de France. Compt. Rend. 34: 890-892. Oct. 27/Nov. 3, 1948. 14 P215Bc
- 32135 CHINI, A. The major problem of Italian agriculture: human reclamation. (In Italian.) Terra [Firenze] 59(47): 1, 3. Nov. 20, 1948. 16 T274
- 32136 CHRISTIANSEN, N. W. The relation of supervision and other factors to certain phases of musical achievement in the rural schools of Utah. Columbia U. Teachers Col. Contrib. Ed. 934, 87 p. New York, 1948. 275 C46
- 32137 COLBY, E. M. No hospitals in 27 counties. Hoosier Farmer 34(2): 10-11, 44. Feb. 1949. 280.82 H76
- 32138 COLEMAN, N. M. How an extension specialist demonstrates the magic of the good earth. Better Farming Methods 21(2): 21. Feb. 1949. 58.8 B46
- 32139 CONFERENCE OF NORTHEASTERN EXTENSION HORTICULTURISTS. [Proceedings, Aug. 25-26, 1948.] Washington, U. S. Ext. Serv., 1948. 25 p. 1.913 C3N813
- 32140 COOPER, S. More than day-dreaming. Natl. Ed. Assoc. NEA J. 38: 117-118. Feb. 1949. 275.9 N21J  
Rural education.
- 32141 COUNTY agents directory, 34th, 1949. 1948. 196 p. 225 Of232
- 32142 CRAWFORD, F. Agricultural education is going ahead. Australia to-day 1949: 111, 113, 115, 117-118. Oct. 20, 1948. 280.8 Au72
- 32143 CROSBY, J. Veterans make success of G. I. farm training. Calif. Farmer, North. Ed. 190: 46-47. Jan. 15, 1949. 6 C126  
Results of the Institutional On-Farm Training Program.
- 32144 CROSS, L. E. New NVATA president outlines objectives of vo-ag assn. Better Farming Methods 21(2): 22, 43. Feb. 1949. 58.8 B46
- 32145 CRUZ RIVERO, A. Triste situación del campesinado cubano. Tierra Libre 13(2): 16. Feb. 1949. 8 T443
- 32146 CULP, V. H. How to manage a rural school. Minneapolis, 1948. 101 p. 275 C894
- 32147 DENMARK. STATISTISKE DEPARTEMENT. Les écoles primaires en 1942-1946. (In Danish.) Denmark. Statis. Dept. Statis. Meddel. 133(4), 85 p. København, 1948. 257.1 St2M  
Title, table of contents and tables also in French.  
Includes rural schools.
- 32148 DREIER, W. H. Rural background found in six third-grade arithmetic texts published between 1942 and 1946. J. Ed. Res. 42: 299-306. Dec. 1948. 275.8 J824
- 32149 DRUMMOND, D. H. A rural university for New South Wales. Country Life [Sydney] 60(24, Ed. sup.): 11, 14. Dec. 10, 1948. 286.85 Sy2
- 32150 DUNK, M. R. BFM makes survey on vo-ag teacher salaries. Better Farming Methods 21(2): 15. Feb. 1949. 58.8 B46
- 32151 EGYPT. MINISTRY OF AGRICULTURE. Guide du Musée Agricole Fouad I. (In French and Arabic.) Caire, Impr. Nationale, 1948, i. e. 1947. 23, 30 p. 24 C12
- 32152 EGYPT. MINISTRY OF SOCIAL AFFAIRS. Fellah and Cooperative Department, Technical Researches Section. Cairo, Govt. Press, 1948. 13 p. 281.192 Eg92
- 32153 EURE, W. W. Working with Virginia young people. Va. Farm Econ. 116: 1236-1237. Nov. 1948. 275.29 V813  
Objectives of a program developed by the Extension Service.
- 32154 FANKHAUSER, H. Warum landwirtschaftliche berufsschule? Salzburg. Bauer 3(52/53): 10. Dec. 23, 1948. 19 Sa3
- 32155 FEAGIN, G. Metal craft. Hawaii. U. Agr. Ext. Home Econ. C. 239, 8 p. Aug. 1948. 275.29 H312H
- 32156 FELTON, R. A. The home of the rural pastor. Madison, N. J., Dept. of the Rural Church, Drew Theological Seminary, 1948. 111 p. 296 F34
- 32157 FILENI, E. Educational courses and rural teachers. (In Italian.) Mezzogiorno Agr. 4(45): 1-2. Nov. 21, 1948. 16 M57
- 32158 FISHER, E. L. The transformation of communities through church cooperation. Town & Country Church 50: 8-9. Feb. 1949. 281.28 T66
- 32159 FITZGERALD, O. A. Faster rolls the R.F.D. West. Farm Life 50(21): 8, 11. Nov. 1, 1948. 6 R153
- 32160 FLETCHER, S. W. Early agricultural fairs. Pa. Farmer 140: 12-13, 15. Jan. 8, 1949. 6 P383
- 32161 FRANCE. COMMISSION DE MODERNISATION DE L'ENSEIGNEMENT, DE LA RECHERCHE ET DE LA VULGARISATION EN AGRICULTURE. Premier rapport. Paris, 1947. 53 p. 14 F8498  
Research and education.
- 32162 GALLEGOS P., J. Problemas económico-sociales del pastor indígena del Altiplano. Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad. 2(6): 64-71. (To be cont.) Sept. 1948. 49.9 P433
- 32163 GEROCK, E. Die landwirtschaftliche berufsschule für mädchen. Nachr. f. Beratung u. Ausbildung in der Landw. 1: 28-29. Nov. 1948. 18 N11  
Germany.
- 32164 GILDERSLEEVE, T. W. North Dakota gears in with Missouri Valley development program. Ext. Serv. Rev. 20: 7, 22. Jan. 1949. 1 Ex892Ex  
Educational program of the Extension Service.
- 32165 GIRALDO, M. Enseñanza práctica agrícola y ganadera. Rev. Nac. de Agr. [Bogotá] 42(515): 7-9. Mar. 1948. 9.4 R32
- 32166 GOLDMANN, F. Voluntary medical care insurance in the United States. New York, Columbia U. Press, 1948. Ref. 228 p. 284.6 G562  
Includes services for farmers.
- 32167 GRAY, W. T. Factors affecting teacher tenure in the Appalachian Highlands. Rur. Sociol. 13: 295-307. Sept. 1948. 281.28 R88  
Knox County, Kentucky.
- 32168 HALLE, J. Die kunst des landwirtschaftlichen vortrags. Nachr. f. Beratung u. Ausbildung in der Landw. 1: 32-33. Nov. 1948. 18 N11
- 32169 HAMLIN, H. M. Future programs of agricultural education. Agr. Ed. Mag. 21: 152-154. Jan. 1949. 275.8 Ag8
- 32170 HEDGECOCK, L. D., and FITCH, W. J. Which hearing aid shall I buy? Mich. State Col. Agr. Ext. B. 290, 22 p. 1948? 275.29 M58B
- 32171 HENRY, W. A. In the beginning. Wis. Country Mag. 42(4): 12-13. Jan. 1949. 276.8 St9  
Agricultural work at the University of Wisconsin.
- 32172 HEUSER, O. Forschung und wirtschaftsberatung. Nachr. f. Beratung u. Ausbildung in der Landw. 1: 31. Nov. 1948. 18 N11
- 32173 HIGHBAUGH, I. Family life in west China. New York, Agr. Missions, 1948. 240 p. Ref. 280.184 H53
- 32174 HOFFMAN, O. H., JR. Farmers are people. Inter-State Milk Prod. Rev. 29(9): 10-12. Jan. 1949. 280.28 In83
- 32175 HOLLAND, J. B., and LOOMIS, C. P. Goals of life of rural ministers. Sociometry 11: 217-229. Aug. 1948. 280.8 So152
- 32176 HORN, C. L. Farm youth and conservation. N. Dak. Outdoors 11(6): 3-4. Dec. 1948. 412.9 N815
- 32177 HORSMAN, K. F. Pottery: a country craft. Scot. Home & Country 25(1): 5-6. Jan. 1949. 281.28 Sco3
- 32178 HORST, M. Farm Show reflects progress. Pa. Farmer 140: 21, 44, 45. Jan. 8, 1949. 6 P383  
Pennsylvania Farm Show of 1949.
- 32179 INDICATEUR LAHURE; foires, fêtes, marchés, 55th, 1948. 1948. 871 p. 230 In2  
France.
- 32180 INSTITUTE FOR EDUCATION BY RADIO. [Highlights of extension radio meeting at Institute for Education by Radio, Friday, April 30, 1948.] Columbus, Ohio, 1948. 10 p. 335.9 In73
- 32181 IOWA. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. Ninetieth anniversary celebration, 1858-1948. Ames, 1948. 90 p. 276 Io9Ni
- 32182 JOHNSON, E. H. Mapping locations of students. Agr. Ed. Mag. 21: 154. Jan. 1949. 275.8 Ag8
- 32183 JOHNSON, J. The sisters. Farm Q. 3(4): 44-45. Winter 1948. 6 F22995  
Pioneer farm women.
- 32184 JONAS, H. Archery turns into part-time farm business. Elect. on the Farm Mag. 22(1): 11-12. Jan. 1949. 335.8 EL27  
Manufacture of archery equipment on a farm.



- 32185 JONES, L. C. The Farmers' Museum. Cooperstown, N. Y., 1948. 48 p. 30.9 J722
- 32186 KAISER, R. G. Training men for better farming in other lands. *Internatl. Harvester World* 40(1/2): 20-21. Jan./Feb. 1949. 58.8 H26
- 32187 KANSAS STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. Forty-second biennial report, June 30, 1948. Manhattan, 1948. 45 p. 276 K131Bi
- 32188 KETCHAM, J. B. Religious education in the town and country church. *Town & Country Church* 50: 5-6. Feb. 1949. 281.28 T66
- 32189 KHRUSHCHEV, N. S. Partijnnye organizatsii Ukrainy v bor'be za novyi pod'ëm sel'skogo khozjajstva [Party organization of the Ukraine in attempts to advance agriculture]. Moskva, Gos. Izd-vo. Polit. Lit-ry, 1948. 158 p. 281.179 K526P
- 32190 KJELSEN, L. G. Finnish agriculture takes the film in its service too. (In Norwegian.) *Norsk Landbr.* 15: 33-34. Jan. 21, 1949. 11 N8122
- 32191 KLINE, A. B. Education and initiative—the American farmer's advantage. *Agr. Leaders' Digest* 29(9): 24, 48. Oct. 1948. 275.28 Am3
- 32192 KOLOSOV, A., and ZHUKOVIN, U. Sel'skiĭ raĭkom partii [The village district party committee]. Moskva, "Pravda," 1948. 50 p. 281.179 K838
- 32193 KUMMER, B. *Volkskundliches vom Reiat*. 2. Naturf. Gesell. Schaffhausen. Mitt. 22: 1-32. 1947/48. 508 Sch2
- 32194 LACHENMAIER, F. Die höhere landbauschule von heute. *Neue Mitt. f. die Landw.* 3: 467-468. Dec. 15, 1948. 18 N39
- 32195 LANDIS, P. H. Forces in rural life of concern to rural churchmen. *Town & Country Church* 50: 3-4. Feb. 1949. 281.28 T66
- 32196 LANGE, H. Die landwirtschaftliche berufsschule im dienste des landvolks. *Neue Mitt. f. die Landw.* 3: 489-490. Dec. 25, 1943. 18 N39  
Germany.
- 32197 LEITE, J. Ideas about medical assistance and hospitalization for sugar workers. (In Portuguese.) *Brasil Açucareiro* 32: 334-347. Sept./Oct. 1948. 65.8 B73
- 32198 LINDSTROM, D. E. Farmers and library service. *Ill. Farm Econ.* 162/163: 765-767. Nov./Dec. 1948. 275.28 IL5
- 32199 LOS SANTOS, PANAMA (CITY) FERIA EXPOSICIÓN DE LAS PROVINCIAS CENTRALES, 3d, 1947. Memoria. Panamá, Impr. Nacional, 1947. 138 p. 31.6 L89
- 32200 LUNDEN, W. A. Children, our greatest farm resource. *Farm Policy Forum* 2(1): 46-49. Jan. 1949. 281.8 F2274
- 32201 MCKAY, G. R. County agent Graham uses a tape recorder with slides. *Better Farming Methods* 21(2): 18. Feb. 1949. 58.8 B46
- 32202 MCMILLAN, R. T. Comparison of veterans and nonveterans on Oklahoma farms. *Southwest. Social Sci. Q.* 29: 214-220. Dec. 1948. 280.8 So82  
Social and economic status.
- 32203 MCWHORTER, B. A bookwagon serves many. *Recreation* 42: 439-441. Jan. 1949. 280.68 P69  
Rural library service.
- 32204 MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Report, 1947/48. Orono? 1948? 45 p. 275.29 M281Rt  
Also issued as Maine. Agr. Col. Ext. B. 383, 48 p. Aug. 1948. 275.29 M281B
- 32205 MAJORS, E. Family religion. *Ala. Polytech. Inst. Agr. Ext. C.* 355, 15 p. Ref. Oct. 1947. 275.29 ALIC
- 32206 MANZENRIED, F. Die berner trachtenleute an der arbeit. *Grüne* 76: 1407-1408. Dec. 24, 1948. 17 Sch9  
Switzerland.
- 32207 MARCOTTE, L. J. Fécondes journées d'étude à l'Isle-Verte, Amqui et Rimouski. *Ensemble!* 10(1): 6-8. Jan. 1949. 280.28 En7
- 32208 MAYO, S. C., and FULLERTON, K. S. Medical care in Greene County. *N. C. Agr. Expt. Sta. B.* 363, 31 p. Nov. 1948. 100 N81
- 32209 MEXICO (CITY) ESCUELA NACIONAL DE AGRICULTURA Y VETERINARIA. La Escuela Nacional de Agricultura de Mexico. Mexico, 1947. 67 p. 102 M57E  
Text in Spanish, English, and French.
- 32210 MILLS, B. R. Development of our veterans training program. *Agr. Ed. Mag.* 21: 160. Jan. 1949. 275.8 Ag8
- 32211 MINKLER, M. Significant women's programs in town and country churches. *Town & Country Church* 50: 7-8. Feb. 1949. 281.28 T66
- 32212 MINNESOTA INSTITUTE OF GOVERNMENTAL RESEARCH. Improving education in Minnesota by reorganizing local school system. *Minn. Inst. Govt. Res. State Govt. Res. B.* 25, 27 p. Jan. 1949. 280.9 M664  
Contains sections on rural schools.
- 32213 MIRÓN CUEVAS, A. Los problemas de la educación rural en México. *Agr. y Ganad.* 24(12): 3-9. Dec. 31, 1948. 8 Ag834
- 32214 MOLONEY, K. Wanted: a new outlook. *Rural science and the farmer.* *Beet Grower* 2: 328-329. Oct. 1948. 66.8 B392  
Education for farming.
- 32215 MONZÓ COLL, A. La fiesta de la vendimia. *Agr. Levantino* 14(168): 7-8. Nov. 1948. 15 Ag85
- 32216 NATIONAL ASSOCIATION OF RADIO FARM DIRECTORS. Year book 1948. 1948. 98 p. 335.9 N2182
- 32217 NELSON, R. N. Party suggestions. *Hawaii. U. Agr. Ext. Home Econ. C.* 226, 4 p. Nov. 1948. 275.29 H312H
- 32218 NIEMANN, F. J. Schulreform auf dem lande. II. *Nachr. f. Beratung u. Ausbildung in der Landw.* 1: 27-28. Nov. 1948. 18 N11  
Germany.
- 32219 OKA. INSTITUT AGRICOLE. Some important facts about the Institut Agricole d'Oka. *Montreal?* 1948. 6 p. 101 Ok1S
- 32220 PATRICK, B. M., and BIVINS, E. C. Pioneer for rural health; Hickory Nut Valley's [North Carolina] 700 families, long without medical care, now have a modern health center, thanks to a young doctor's zeal. *Country Gent.* 119(2): 31, 109, 111, 112. Feb. 1949. 6 C833
- 32221 PRIoux, G. M. La fabrication artisanale des cannes à pêche. *Rustica* 22: 66. Jan. 23, 1949. 14 R92
- 32222 PRZEDPELSKI, B. J. Agricultural extension education in Poland, 1918-1939. *Morningside Heights, N. Y., King's Crown Press*, 1948. 139 p. Ref. 275.24 P95
- 32223 REESE, M. J. Today's home builds tomorrow's world. *Washington, U. S. Ext. Serv.*, 1948. 3 p. 1.913 A2T56  
Home demonstration work.
- 32224 REGNIER, E. H. The recreation workshop—a true first aid. *Ext. Serv. Rev.* 20: 12-13. Jan. 1949. 1 Ex892Ex
- 32225 RICHARDSON, E. C. "How much milk can you give." *Washington? U. S. Ext. Serv.*, 1948. 4 p. 1.913 A2H838  
Extension work.
- 32226 RINEHART, M. Newspapers to the farm by air. *Farm & Ranch* 68: 40. Jan. 1949. 6 T31
- 32227 RITTER, O. Unsere landwirtschaftlichen lehrlinge [Austria]. *Landwirtschaft* 1948: 296-297. Oct. 23, 1948. 19 L235
- 32228 RIVIERE, C. M. Escuela y enseñanza en el medio rural [Uruguay]. *Diario Rur.* 8(831): 12. Dec. 11, 1948. 9.9 D54
- 32229 ROSENSTAND, T. The agricultural press and its utilization and importance to agriculture. (In Danish.) *Dansk Landbr.* 68(1): 15-16. Jan. 6, 1949. 280.28 V91
- 32230 ROSENSTAND, T. The farmer and his helpers. II. (In Danish.) *Dansk Landbr.* 67: 488-490. Dec. 16, 1948. 280.28 V91  
Education in vocational agriculture in Denmark.
- 32231 ROYAL ULSTER AGRICULTURAL SOCIETY. Annual show, 80th, 1947. various paging. Belfast? 1947. 10 R816A
- 32232 RUSK, H. P. The dean disagrees: statement of exception to recommendation on relations with farm organization. *Farm Policy Forum* 2(1): 9-12. Jan. 1949. 281.8 F2274  
Relation of the Extension Service to farm organizations.
- 32233 RUSSELL, SIR E. J. Early English books on agriculture. *Brit. Agr. B.* 1: 60-63. Summer 1948. 10 B776
- 32234 SANDERS, H. W. Training and servicing veterans' teachers. *Agr. Ed. Mag.* 21: 158-159, 163. Jan. 1949. 275.8 Ag8



- 32235 SANDERSON, R. W. The responsibility of the town and country church for the rural community. *Town & Country Church* 50: 1-2. Feb. 1949. 281.28 T66
- 32236 SAWYER, W. E. The evolution of the Morrill Act of 1862. Boston, 1948. 6 p. 275.1 Sa92  
Abstract of diss.- Boston Univ.
- 32237 SEEDORF, W. Erziehung zur unehrlichkeit. *Neue Mitt. f. die Landw.* 3: 56-57. Feb. 21, 1948. 18 N39  
Economic position of German farmers.
- 32238 SERANDOUR, P. Le problème de la jeunesse rurale [France]. *Monit. Agr.* 2(52): 3. Jan. 9, 1949. 14 M744
- 32239 SILVEIRA, A. H. DA. Rural industries, the basis of Brazilian agricultural economy. (In Portuguese.) *Chacaras e Quintais* 79: 97-98. Jan. 15, 1949. 9.2 C34
- 32240 SNYDER, C. Help for rural churches. *Mtn. Life & Work* 24(4): 24-25. Winter 1948. 281.28 M86
- 32241 STERLING, C. I., JR. Tropical disease control by the Institute of Inter-American Affairs. *Record* 4(5): 29-38. May 1948. 150 R24
- 32242 STEWART, H. G. Institutos agropecuarios británicos. *Surco* [Madrid] 7(78): 24. Aug. 1948. 15 Su7  
Education.
- 32243 STÖHR, R. Die flüchtlingsbauern zur jahreswende. *Landw. Wchnbl.* 139: 3. Jan. 1, 1949. 18 L2338  
Germany.
- 32244 STROHM, J. The King's county agents; a handful of Americans are helping the ruler of Saudi Arabia make the Garden of Eden bloom again, winning friends for us in the oil center of the world. *Country Gent.* 119: 22-23, 71-74. Jan. 1949. 6 C833
- 32245 SWANSON, G. Developing criteria to evaluate progress made by veterans. *Agr. Ed. Mag.* 21: 156. Jan. 1949. 275.8 Ag8
- 32246 THOMPSON, J. B. Walnut Gap has its face lifted; an unattractive, rundown rural school becomes a dominant communitywide influence. *Natl. Ed. Assoc. U. S. NEA J.* 38(1): 16-17. Jan. 1949. 275.9 N21J
- 32247 TONKIN, J. D. Puerto Rico's farm radio programs. *Foreign Agr.* 13: 19-20. Jan. 1949. 1.9 Ec7For
- 32248 TREVEN, K. Der gebirgsbauer als handwerker. *Kärntner Bauer* 98: 415-418. Dec. 20, 1948. 19 K14
- 32249 U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Graduate School schedule of classes, spring semester, 1949. Washington, 1949. 8 p.-folder. 1 Ag854E
- 32250 U. S. DEPT. OF AGRICULTURE. LIBRARY. Report, 1947/48. Washington, 1948. 9 p. 1 L61
- 32251 U. S. EXTENSION SERV. Extension specialist in animal husbandry and veterinary science. Washington, 1948. 6 p. 1.913 A4Ex8
- 32252 U. S. EXTENSION SERV. Readership study of Extension Service Review; a survey of what county agents read in the April-May 1948 issue. Washington, 1948. 4 p. 1.913 C2R22
- 32253 U. S. EXTENSION SERV. Report of the President's Commission on Higher Education; its implication for the Extension Service, by H. C. Ramsower. Washington, 1948. 6 p. 1.913 A2P923
- 32254 U. S. EXTENSION SERV. Report of work in agriculture and home economics, 1947/48. Washington, 1948. 50 p. 1 Ex892R
- 32255 U. S. EXTENSION SERV. The training of extension personnel to meet present-day problems, by M. Justin. Washington, 1948. 4 p. 1.913 H2T682
- 32256 U. S. EXTENSION SERV. DIV. OF FIELD STUDIES AND TRAINING. Summary, county agent work, Massachusetts, 1947. Washington? 1948. 2 p. 1.913 S2Su64
- 32257 U. S. INSTITUTE OF INTER-AMERICAN AFFAIRS. DIV. OF HEALTH AND SANITATION. Cooperative health programs of the U.S.A. and Latin America. Washington, 1948. 20 p. 173.3 In832C
- 32258 U. S. OFFICE OF EDUCATION. Summaries of studies in agricultural education; an annotated bibliography of studies in agricultural education with cumulative classified subject index. U. S. Off. Ed. Vocat. Div. B. 237, 120 p. 1948. 173 V85B
- 32259 UTAH. AGRICULTURAL COLLEGE. Build your future at Utah State. Logan, 1948. 12 p. (Col. B. v. 48, No. 7) 276 Ut15Bu
- 32260 UTAH FOUNDATION. Expenditures, revenues, and enrollments, Utah State Agricultural College, school years 1937 through 1947. Salt Lake City, 1948? 4 p. (Res. Rept. 34) 276 Ut154
- 32261 VAZQUEZ FERNANDEZ-ARROYO, A. El sostenimiento del Servicio de Guardería Rural. *Ganadería* [Madrid] 6: 547. Oct. 1948. 49 G15
- 32262 VERMONT. UNIVERSITY. COLLEGE OF AGRICULTURE. Report, July 1946-June 1948. Burlington, 1948. 28 p. 276 V59A
- 32263 VILLANUEVA SAENZ, J. G. Las exposiciones rurales. *Campo* [La Paz] 2(17): 18-20. Sept. 1948. 9.1 C15
- 32264 VINE, R. Learning about farming on farms; scheme for new agricultural education. *New Zeal. Farmer* 69(19): 4-5. Nov. 11, 1948. 23 N484
- 32265 WATSON, G. E., and TRIPLETT, B. Testing and counseling for rural youth. *Employment Security Rev.* 15(12): 23. Dec. 1948. 158.3 Em72
- 32266 WHEELER, J. T. Two hundred years of agricultural education in Georgia. Danville, Ill., Interstate, 1948. 397 p. Ref. 275.1 W56T
- 32267 WHITEMARSH, F. M. Agencies cooperate in instruction of veterans. *Agr. Ed. Mag.* 21: 157, 163. Jan. 1949. 275.8 Ag8
- 32268 WILSON, M. L. As extension work grows. *Natl. Co. Agent* 5(1): 12-13, 26. Jan. 1949. 275.28 N213
- 32269 WILSON, M. L. Hats off to the service that links the nation's farmers. *Co. Agents Dir.* (1949) 34: 8. 225 Of232
- 32270 WILSON, M. L. 1949 challenges Extension. *Ext. Serv. Rev.* 20: 3, 11. Jan. 1949. 1 Ex892Ex
- 32271 XARUBA BULDO, E. Bajo la égida de la rutina. *Cult. Mod.* 30: 459. Dec. 1947. 15 C89  
Value of agricultural education to Spanish agriculture.

#### Rural Organizations and Movements

- 32272 ADAMS, T. M. Vermont cooperatives; their business activities. *Vt. Agr. Expt. Sta. B.* 540, 27 p. Jan. 1948. 100 V59
- 32273 AGER, B. Finance problems of farm cooperative organizations. (In Swedish.) *SL-kontakt* 1948: 201-204. 11 Sv28S
- 32274 ALABAMA. POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION SERV. Junior girls' 4-H handbook. Ala. Polytech. Inst. Agr. Ext. C. 339, 72 p. Nov. 1947. 275.29 AL1C
- 32275 BAKER, C. Pacific Supply [Cooperative] looks ahead. *Pacific Northwest Co-op.* 14(1): 1, 12. Jan. 1949. 280.28 P112
- 32276 BOGARDUS, E. S. Dictionary of cooperation (including encyclopedic materials). New York, Coop. League U.S.A., 1948. 94 p. 280.2 B632
- 32277 BORNHOLMS LANDÖKONOMISKE FORENING. Report of the activities of Bornholm's Agricultural Economic Association, 1946-47. (In Danish.) Bornholm, 1947. 32 p. 11 B64B
- 32278 CALIFORNIA STATE GRANGE. Journal of proceedings, 76th, 1948. 1948. 189 p. 4 C123
- 32279 CHAMBERS, M. M. Youth-serving organizations: national nongovernmental associations. Ed. 3. Washington, Amer. Council on Ed., 1948. 162 p. 225 C355  
Includes agricultural and rural life organizations.
- 32280 CHANDRAMOULI, K. Co-operation—the key to individual and international progress. Madras J. Co-op. 40: 199-202. Nov. 1948. 280.28 M26
- 32281 CLAPP, R. L. How green is my co-op. *Coop. Digest* 9(8A): 50. Feb. 15, 1949. 280.28 C7896
- 32282 CLARK, E. San Diego County Farm Bureau, 1914-1949. South. Calif. Rancher 13(12): 58. Dec. 1948. 6 So831
- 32283 CO-OPERATIVE UNION LTD. Report of the seventy-eighth annual co-operative congress held in The Dome, Brighton, May 26th, 27th, and 28th, 1947. Manchester, 1947? 536 p. 280.29 C784
- 32284 CREWS, C. R., ed. Europe's co-ops as we saw them. Chicago, Coop. League of U.S.A., 1948? 96 p. 280.2 C86E
- 32285 DORONIN, P. I. Organizatsiia kolkhoznykh mass na vopolenie khoziaistvenno-politicheskikh zadach [Organization of collective farm masses for the accomplishment of economic and political undertakings]. Moskva, Gos. Izd-vo Polit. Lit-ry, 1948. 93 p. (Iz Opyta Raboty Partinykh Organizatsii) 281.179 D73



- 32286 DUGGAN, I. W. Don't just ride along. *Sowega Standard* 34, i. e. 24(5): 1. Sept. 16, 1948. 280.28 So9 Cooperatives.
- 32287 DUGGAN, I. W. Three essentials in a successful co-op. *Butter-fat [Vancouver]* 26(11): 8. Feb. 1949. 44.8 B98
- 32288 EGYPT. MINISTRY OF SOCIAL AFFAIRS. Co-operative societies in Egypt. Cairo, 1948. 12 p. 280.2 Eg92
- 32289 ERICKSON, T. A. 4-H Club story; origins and early growth of the work in Minnesota. Minneapolis, Gen. Mills, 1947. 52 p. 4 Er4
- 32290 FAUQUET, G. The economic and legal status of co-operative institutions. *Internat. Labour Rev.* 58: 480-493. Oct. 1948. 283.8 In8
- 32291 FETROW, W. What my co-ops mean to me. *Sowega Standard* 34, i. e. 24(5): 2. Sept. 16, 1948. 280.28 So9
- 32292 GAMACHE, C. A. Étude de la loi des sociétés coopératives agricoles [Quebec]. Ensemble! 10(1): 18-19. (To be cont.) Jan. 1949. 280.28 En7
- 32293 GMELIN, W. Neue aufgaben der landwirtschaftl. genossenschaften. *Württemb. Wchnbl. f. Landw.* 115: 381-383. Dec. 11, 1948. 18 W96
- 32294 GRANDE, L. Cooperative activities of our F. F. A. chapter. *Agr. Ed. Mag.* 21: 165. Jan. 1949. 275.8 Ag8
- 32295 HENSLEY, H. C. The co-operative movement in Denmark. *Co-op News* 22(11): 18-19. Nov. 1948. 280.28 C7899
- 32296 HIXON, M. Accomplishment of the Grange in Pennsylvania. *Pa. Grange News* 45(10): 2-3. Jan. 1949. 6 P38
- 32297 HORACE PLUNKETT FOUNDATION. Year book of agricultural co-operation, 1948. Cambridge, W. Heffelf & Sons, Ltd., 1948. 322 p. 280.29 H78
- 32298 HULBERT, L. S. An equal break for farmer co-ops. *Co-op Grain Q.* 6(3): 76-78. Winter 1948. 280.28 C7898
- 32299 JENSEN, A. L. Co-ops on solid legal ground. *Farmers' Elevator Guide* 44(1): 10-11. Jan. 1949. 280.28 Am3
- 32300 JÖNKÖPINGS LÄNS HUSHÄLLNINGSSÄLLSKAP. Report of the activities of Jönköping Province Agricultural Association's activities during the year 1947. (In Swedish.) *Jönköpings Läns Hushållningssällsk. Handl. och Tidskr.* 1948: 5-40. 11 J732
- 32301 KENYA FARMERS' ASSOCIATION (CO-OPERATIVE) LIMITED. 26th directors' report and statement of accounts, 31st July, 1948. Dec. 22, 1948. 31 p. 280.29 K42
- 32302 KLIMOV, A. Soviet consumer cooperation at the present stage. (In Russian.) *Voprosy Ekonom.* 1948 (6): 95-105. 1948. 280.8 V89
- 32303 KNAPP, J. G. Co-op leaders see good things ahead. *Sowega Standard* 34, i. e. 24(6): 2. Dec. 16, 1948. 280.28 So9
- 32304 KNAPP, J. G. The future of cooperative purchasing. Washington, U. S. Farm Credit Admin., 1949. 6 p. 1.955 C2K72
- 32305 LAUMONT, P. Rapport moral sur la Société des agriculteurs d'Algérie. n. p., 1948? 8 p. 24 SolR
- 32306 LIN, C. C. China's peasant revolutions. *China Weekly Rev.* 112(6): 144. Jan. 8, 1949. 280.8 C445
- 32307 LOCKHART, V. E. Telling G. I.'s about co-ops. *Coop. Digest* 9(8A): 46-48. Feb. 15, 1949. 280.28 C7896
- 32308 LOVELAND, A. J. Necessity is the mother of co-ops. Washington, U. S. D. A., 1949. 9 p. 1.91 A2L94
- 32309 LÜCKER, H. A. Der [Bayerischen] Bauernverband beim Ministerrat. *Landw. Wchnbl.* 138: 363. Nov. 13, 1948. 18 L2338
- 32310 MALCOMSON, H. Teaching cooperation through cooperatives. *Agr. Ed. Mag.* 21: 150. Jan. 1949. 275.8 Ag8
- 32311 MASSACHUSETTS STATE GRANGE. Official directory, 1949. 1949? unpag. 4 M385D
- 32312 MASSACHUSETTS STATE GRANGE. Proceedings of the seventy-sixth annual session... 1948. 1949? 150 p. 4 M385
- 32313 MEHTA, V. L. Growth of co-operative movement. *Bombay Co-op. Q.* 32: 95-100. Oct. 1948. 280.28 B63
- 32314 MENEZES, R. B. DE. Why some cooperatives break up. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 3(29): 15. Nov. 1948. 280.28 C7856
- 32315 METZGER, G. E. The corporation and the farmer; farmers are beginning to take full advantage of the corporate organization as other economic groups have for years. *Ill. Agr. Assoc. Rec.* 26(12): 20-21. Dec. 1948. 6 IL62
- 32316 MINNESOTA STATE GRANGE. Proceedings, 76th, 1948. 1948. 91 p. 4 M662
- 32317 NASH, D. W. These clubs have made good. *Country Guide* 68: 10, 32. Jan. 1949. 7 G76
- Junior farm clubs in Alberta.
- 32318 NATIONAL ASSOCIATION OF COOPERATIVES. Are cooperatives a threat to small business? Chicago, 1948. 11 p. 280.2 N216A
- 32319 NATIONAL COÖPERATIEVE RAAD. Landbouwoöperatie in Nederland [Agricultural cooperation in the Netherlands]. s'-Gravenhage, 1947. 23 p. 280.2 N217L
- 32320 NATIONAL GRANGE OF THE PATRONS OF HUSBANDRY. Journal of proceedings, eighty-second annual session. 1948. 240 p. 4 N21
- Contains address of A. S. Goss.
- 32321 NATIONAL GRANGE OF THE PATRONS OF HUSBANDRY. Official roster 1949. 1948? 8 p. 4 P2720
- 32322 NATIONALE COÖPERATIEVE RAAD. Coöperatie in Zweden [Cooperation in Sweden], by H. J. Frietema. Den Haag, 1947. 80 p. 280.2 N217C
- 32323 NATIONALE COÖPERATIEVE RAAD. The cooperative movement in the Netherlands. s'-Gravenhage, 1947. 12 p. 280.2 N217
- 32324 NAYAK, N. V. The current trends and development in the co-operative movements in the world. *Bombay Co-op. Q.* 32: 114-118. Oct. 1948. 280.28 B63
- 32325 NEW YORK FARMERS. Proceedings, 1947-1948. New York, 1949. 148 p. 4 N48P
- 32326 NICHOLS, M. Farmer cooperatives and vocational agriculture. *Agr. Ed. Mag.* 21: 148-150. Jan. 1949. 275.8 Ag8
- 32327 NORTH DAKOTA DIVISION OF COOPERATIVES. Seventh annual statistical report for the past fiscal year, November, 1948. N. Dak. Dept. Agr. and Labor. B. 67, 15 p. 1948. 280.29 N813
- Statistics on cooperatives.
- 32328 ÖSTERGÖTLANDS LÄNS HUSHÄLLNINGSSÄLLSKAP. Report on the activities of Östergötland Province Agricultural Association during the year 1947. (In Swedish.) *Östergötlands Läns Hushållningssällsk. Handl.* 1948(2): 37-105. 11 Sw32H
- 32329 PATERNO, D. Organization of production cooperatives in Rio Grande do Sul. (In Portuguese.) *Cooperativismo [Rio de Janeiro]* 2(30): 13-16, 22. (To be cont.) Dec. 1948. 280.28 C7856
- 32330 PFISTERER, E. Der berufliche und wirtschaftliche zusammenschluss in der landwirtschaft. *Württemb. Wchnbl. f. Landw.* 116: 4-5. Jan. 1, 1949. 18 W96
- 32331 PROVOST, G. 4-H work pays off at college and career. *Agr. Leaders' Digest* 29(9): 52-53. Oct. 1948. 275.28 Am3
- 32332 RAMBEAU, L. Ouil syndicalisme actif pour la défense de notre agriculture [France]. *Liberation Paysanne* 5(193): 7. Dec. 9, 1948. 14 L61
- 32333 RASKOPF, B. D. Tennessee farmers purchasing cooperatives: their business, problems and practices. *Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog.* 241, 35 p. Ref. Jan. 25, 1949. 173.2 W89Co
- 32334 REGNIER, E. H. Plans are popping on national 4-H recreation program. *Agr. Leaders' Digest* 29(9): 20. Oct. 1948. 275.28 Am3
- 32335 RESERVE BANK OF INDIA. Statistical statements relating to the co-operative movement in India for the years 1943-44 and 1944-45. 1947. 40 p. 284.29 R315
- 32336 RESERVE BANK OF INDIA. AGRICULTURAL CREDIT DEPT. Review of the co-operative movement in India 1939-46. Bombay, 1948. 111 p. 284.2 R31



32337 REYMOND, P. La coopération. Libération Paysanne 5(196): 6. Dec. 30, 1948. 14 L61 France.

32338 RODRIGUEZ BOU, I. El movimiento cooperativo y la educación de adultos. Rev. de Agr. de Puerto Rico 39(1): 48-49. Jan./June 1948. 8 R325

32339 RUGGERI, S. Agricultural syndicates as motor centers of national [Italian] agriculture. (In Italian.) Rassegna (n. s.) 5(3): 1. Jan. 16, 1949. 280.8 R182

32340 SILVEIRA, G. G. DA. School cooperatives. (In Portuguese.) Lavoura 52: 61-62. Sept./Oct. 1948. 9.2 L39

In Brazilian agriculture.

32341 SOCIEDAD NACIONAL AGRARIA. Memoria, 1947/48. Lima, 1948. 195 p. 9.8 S011

32342 SORBI, U. Smallholding and cooperation. (In Italian.) Terra [Firenze] 60(4): 1, 3. Jan. 23, 1949. 16 T274

32343 SPONBERG, H. The meeting will come to order. Mich. State Col. Agr. Ext. B. 294, 23 p. 1948? 275.29 M58B

Parliamentary procedure.

32344 STERN, J. K., and DORAN, H. F. Farmers' support of cooperatives. Pa. Agr. Expt. Sta. B. 505, 41 p. Nov. 1948. 100 P381

In Pennsylvania.

32345 SUBRAHMANYAM, K. Cooperation—its philosophy and possibilities. Madras J. Co-op. 40: 203-212. Nov. 1948. 280.28 M26

32346 TAYLOR, H. B. The best must be better. Hoosier Farmer 34(1): 24-25. Jan. 1949. 280.82 H76

4-H Club work.

32347 ULSTER AGRICULTURAL ORGANISATION SOCIETY, LTD. Report for the year ended 31st March, 1947. Belfast, 1947? 36 p. 280.29 UL7

32348 UNIÓN NACIONAL DE COOPERATIVAS DEL CAMPO. La cooperación agrícola española. Spanish agricultural cooperation. La cooperación agricole espagnole. Madrid, 1947? 20 p. 280.2 Un363

32349 UNION SUISSE DES PAYSANS. Cinquante-naire de l'Union Suisse des Paysans, 1897-1947. Brougg, 1948. 197 p. 17 Un3U

32350 U. S. EXTENSION SERV. Observance of National 4-H Club Week, March 5-13, 1949, by G. L. Warren. Washington, 1948. 41 p. 1.913 F3N2142

Theme: Better living for a better world.

32351 UNITED STATES JUNIOR CHAMBER OF COMMERCE. Presenting World Foundation for Farm Youth. n. p., 1948. 9 p. 281.9 Un36

32352 UNITED STATES JUNIOR CHAMBER OF COMMERCE. The work manual on agriculture. Tulsa, 1948. 1 v. (unpaged) 281.12 Un36

32353 VIDRIERA. Unión. Agr. Lagunero 3(30/31): 24. Oct./Nov. 1948. 8 Ag824

Agricultural cooperation.

32354 WARBASSE, J. P. Cooperative education. Ed. 5, rev. New York, Cooperative League of the U. S. A., 1947. 31 p. 280.2 W19

32355 WARD, G. F. Flying Farmers seek progress in agriculture. Fla. Grower 57: 6-9. Jan. 1949. 80 F6622

32356 WICKLING, P. D. Eleven years with the F. F. A. and Y. F. A. Agr. Ed. Mag. 21: 165. Jan. 1949. 275.8 Ag8

### RURAL SOCIAL PSYCHOLOGY

32357 HUMPHREY, N. D. The cultural background of the Mexican immigrant. Rur. Sociol. 13: 239-255. Sept. 1948. 281.28 R88

32358 PRATS, A. La llamada de la tierra. Confed. de Cam. Nac. de Com. Carta Semanal 12(606): 23-24. Jan. 1, 1949. 286.8 C76

### TRADE, FOREIGN AND INTERNATIONAL

32359 AABY-ERICSSON, A. Export of horses to Finland. (In Swedish.) Lantmannen 33: 29. Jan. 8, 1949. 11 L234

32360 ALBERTARIO, P. International grain agreement. (In Italian.) Gior. di Agr. 59: 10. Jan. 9, 1949. 16 It1G

32361 AUSTRALIAN BROADCASTING COMMISSION. "Should production be increased to gain export markets?" Sydney, Pub. Relat. Div., Min. of Post-War Reconstr., 1948. 31 p. (Nation's Forum of the Air. v. 4. 5) 286 Au73S

32362 BADÍA, V. La exportación de naranja en la primera temporada [Spain]. Agr. Levantino 14(168): 3-4. Nov. 1948. 15 Ag85

32363 BECH, P. Nursery problems of today. (In Danish.) Gart. Tid. 64: 546-547. Nov. 10, 1948. 80 G192

Trade in flowers, fruit and vegetables.

32364 BELL, G. L. 1949 export prospects for farm machinery and equipment. Impl. & Tractor 64(1): 66-67, 78, 82. Jan. 8, 1949. 58.8 W41

32365 BIRKETT, C. B. Export trade of Honduras earns sufficient dollars to meet needs. Foreign Trade 5: 162-165. Jan. 22, 1949. 286.8 C162

32366 BLACK, W. H. Shorthorns for export. Short-horn News 9(4): 23-24. Dec. 1948. 43.8 Sh85

From Canada.

32367 BROWNE, G. A. Agriculture in Pakistan largely determines nature of trade. Foreign Trade 5: 72-74. Jan. 8, 1949. 286.8 C162

32368 BRYAN, A. E. Britain imported large proportion of foodstuffs from Canada last year. Foreign Trade 5: 233-234. Jan. 29, 1949. 286.8 C162

32369 CANADA. BD. OF GRAIN COMMISSIONERS. Canadian grain exports crop year 1947-48. Jan. 1949. 31 p. 286.3599 C162D

32370 CANADA. BUR. OF STATISTICS. Trade of Canada year ended December 31, 1947; vol. III, Imports. 1948. 356 p. 253 C332A

32371 CARPENTIERI, F. Wine exports in the 1938-1947 decennium. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 167-168. Sept. 30, 1948. 16 C72

32372 CHANG, K. W. China's exports of skins and furs. China Trade Monthly 2: 996-997, 1023. Dec. 1948. 286.8 C44

32373 CHILE. DIRECCIÓN GENERAL DE ESTADÍSTICA. Comercio exterior, año 1946. Santiago de Chile, 1948. 280 p. 255.4 Es8Ce

32374 CLAYTON, W. L. Design for world prosperity. Cotton Trade J. Internatl. Ed. (1948/49) 16: 12-13, 104. 1948. 72.8 C8214I

International Trade Organization.

32375 COOK, F. T. Tobacco is now principal export industry of Southern Rhodesia. Foreign Trade 5: 179-180. Jan. 22, 1949. 286.8 C162

32376 CUBA. MINISTERIO DE HACIENDA. DIRECCIÓN GENERAL DE ESTADÍSTICAS. Comercio exterior 1944-1945. Habana, 1948. 341 p. 254.8 C893

32377 DAGNINO, E. Chile y el Plan Marshall. Montevideo, 1948. 1 v. (various pagings) 286 D13

Includes statistics of trade in agricultural products.

32378 DALE, M. R. M. Australian wool exports achieve record, but volume is lower. Foreign Trade 5: 185-187. Jan. 22, 1949. 286.8 C162

32379 D'ANNA, F. C. The Italian-French customs Union. (In Italian.) Riv. di Polit. Econ. (ser. 3) 38: 998-1008. Nov. 1948. 280.8 R52

32380 DREW, F. W. British market opens to Empire nations. West. Canner & Packer 41(2): 25. Feb. 1949. 286.83 W522

Canned food.

32381 DUNN, R. P., JR. Mexico's cotton exports soar. Cotton Trade J. Internatl. Ed. (1948/49) 16: 144-145, 190-191. 1948. 72.8 C8214I

32382 ELKINTON, C. M. We need an import policy. Farm Policy Forum 2(1): 13-14. Jan. 1949. 281.8 F2274

32383 ESBO, H. Can we export seed potatoes to Portugal or Spain? (In Swedish.) Lantmannen 33: 88-89 Feb. 5, 1949. 11 L234

32384 FEDERACIÓN NACIONAL DE CAFETEROS DE COLOMBIA. SECCIÓN DE INVESTIGACIONES ECONÓMICAS. Importancia del café en el comercio exterior de Colombia, by A. Samper. Bogotá, 1948. 151 p. 286 F3142

32385 FELCOURT, COMTE DE. L'agriculture française et le Bénélux. Fiches Rurales (Documents) 38, 4 p. Aug. 1948. 281.8 F44

32386 FOSTER, J. C. Changing export potentialities for U. S. agricultural products. Foreign Com. Weekly 34(3): 3-5, 47-48. Jan. 17, 1949. 157.54 F763

32387 FRANCE. SERVICE COLONIAL DES STATISTIQUES. Statistiques du commerce extérieur des territoires français d'outre-mer, 1945. Paris, 1947. 138 p. 260 St223S



- 32388 GARDE, F. A. Beef cattle from Australia. *Philippine Livestock Mag.* 1: 56-57, 74, 76. Dec. 1947. 49 P53
- 32389 GILBERT, H. A. Adverse dollar dilemma is barrier to food distribution. *Food Canada* 9(1): 14. Jan. 1949. 389.8 F7323
- Trade.
- 32390 GIORDANO, A. Exports up in Italy: barter deals beckon cotton industry. *Cotton Trade J. Internatl. Ed.* (1948/49) 16: 94-95. 1948. 72.8 C82141
- 32391 GOMEZ, E. J. Protección aduanera [Colombia]. *Rev. Nac. de Agr.* 42(514): 33-35. Feb. 1948. 9.4 R32
- 32392 GRAVEL, R. E. Canada is an indirect purchaser of Uruguayan hides and skins. *Foreign Trade* 5: 68-72. Jan. 8, 1949. 286.8 C162
- Second of two articles.
- 32393 GRAVEL, R. E. Uruguay buys more goods from Canada than in prewar years. *Foreign Trade* 5: 19-25. Jan. 1, 1949. 286.8 C162
- 32394 GREAT BRITAIN. CUSTOMS AND EXCISE DEPT. Thirty-ninth report, 1947/48. 1948. 170 p. 256.03 C96
- Includes statistics for trade in agricultural products.
- 32395 GREAT BRITAIN. CUSTOMS AND EXCISE DEPT. STATISTICAL OFFICE. Annual statement of the trade of the United Kingdom with British countries and foreign countries 1946 compared with the years 1942-1945. v. I, III. London, 1948. 256.03 C96S
- 32396 GRIESBECK. Die anerkannte bayer. saatkartoffel als exportartikel. *Landw. Wchnbl.* 138: 328-329. Oct. 23, 1948. 18 L2338
- Germany.
- 32397 HANNAM, H. H. Commodity agreements the answer. *Manitoba Co-op.* 6(25): 8. Jan. 20, 1949. 280.28 M31
- International agreements.
- 32398 HARRIS, J. Guernsey quota on trial. *Farmer & Stock-Breeder* 62: 3015. Dec. 28, 1948. 10 F228
- Cattle export quota arrangement, Guernsey Island.
- 32399 HARRIS, S. E., ed. Foreign economic policy for the United States. Cambridge, Harvard U. Press, 1948. 490 p. 280 H244E
- Includes trade and reconstruction.
- 32400 HORRING, J. Problems of inter governmental commodity regulations. (In Dutch.) *Landbouwk. Tijdschr.* 59: 421-428. Oct./Nov. 1947. 105.2 Or3
- Food.
- 32401 JACOBSEN, A. P. Marketing prospects for Denmark's agricultural products. (In Danish.) *Denmark Udenrigsmin. Tidsskr.* 29: 463-469. Dec. 1, 1948. 286.8 D41
- 32402 JANSSEN, R. W. The results of Bintje. (In Dutch.) *Boer en Tuinder* 2(103): 9. Dec. 24, 1948. 12 B632
- Potato exports.
- 32403 JANSZ, S. E. P. Ceylon-Australia trade in 1947. *Ceylon Trade J.* 13: 407-414. Dec. 1948. 286.8 C333
- Includes agricultural products.
- 32404 KELLY, T. H. A customs union for southern Africa. *Pietermaritzburg, Natal U. Col.*, 1948. 22 p. 285 K292
- 32405 KENDERDINE, J. E. Japan needs foreign foodstuffs for ever-growing population. *Foreign Trade* 5: 106-111. Jan. 15, 1949. 286.8 C162
- 32406 KLEFFENS, A. VAN. Benelux: pattern for prosperity. *Cotton Trade J. Internatl. Ed.* (1948/49) 16: 76-77, 83. 1948. 72.8 C82141
- 32407 KLOOS, G. J. Trade possibilities for perilla oil. (In Dutch.) *Econ. Weekblad v. Indonesië* 14: 1040-1042. Dec. 4, 1948. 280.8 Ec76
- 32408 LA BEAUMELLE, R. A. DE. France looks to economic union: cotton industry spurs revival of healthy world trade. *Cotton Trade J. Internatl. Ed.* (1948/49) 16: 41-43. 1948. 72.8 C82141
- 32409 LAMARCHE VILLALON, R. American processed foods are winning Cuba. *Food Indus.* 21: 150, 208. Feb. 1949. 389.8 F737
- 32410 LAURENT, R. À propos des 12,5 % de douane sur les semences de pommes de terre. *Inform. Maroc.* 404: 1-2. Oct. 9, 1948. 281.8 In3
- 32411 LAURENT, R. Exporter ou mourir. *Inform. Maroc.* 403: 1. Oct. 2, 1948. 281.8 In3
- 32412 LIJSTEN, R. Export and import of fruit and various fruit products in 1947. (In Dutch.) *Nederland. Heidemaatsch. Tijdschr.* 59: 456-462. Dec. 1948. 12 N282
- 32413 LYNCH, D. Informe sobre política arancelaria en Panamá. Washington, Inter-Amer. Devlpmt. Comn., 1947. 67 p. 284.5 L99As
- 32414 MCARDLE, A. A. The export market for White Leghorn hens. *So. Austral. Dept. Agr. J.* 52: 182-183. Nov. 1948. 23 So84
- 32415 MCLEAN, G. M. Canadian cheese and the export market. *Canad. Dairy & Ice Cream J.* 28(1): 68, 70, 74. Jan. 1949. 44.8 C162
- 32416 MARZI, G. DE. Grain policy. (In Italian.) *Gior. di Agr.* 59: 17. Jan. 16, 1949. 16 It1G
- The International Wheat Agreement.
- 32417 MEIJERS, T. Rattan exports to the United States. *Econ. Rev. Indonesia* 2: 150-152. Oct./Dec. 1948. 280.8 Ec725
- 32418 MOTZ, F. A. Marketing Virginia apples abroad. *Va. Fruit* 37: 118-126. Jan. 1949. 81 V81B
- Discussion, p. 126-128.
- 32419 NICARAGUA. RECAUDADOR GENERAL DE ADUANAS. Memoria, 1947. Managua, 1948. 166 p. 254 W512
- Includes trade in agricultural products.
- 32420 PARINA, S. L. The problem of imported eggs from China. *Agr.-Com.-Indus. Life* 10(10): 16, 23, 25. Oct. 1948. 25 Ag8
- In the Philippines.
- 32421 PARREIRA, A. M. Trade and related problems [in the coffee industry]. (In Portuguese.) *Soc. Rur. Brasileira. Rev.* 28(338): 34-36. Nov./Dec. 1948. 9.2 B733
- 32422 PRATT, E. E. The foreign trade handbook; a guide to exporting. Chicago, Dartnell Corp., 1948. 1463 p. 286 P884F
- 32423 PREVOT, G. Rallying to the "call to export." *Cotton Trade J. Internatl. Ed.* (1948/49) 16: 48-50. 1948. 72.8 C82141
- France.
- 32424 PRIESTMAN, H. L. E. Cattle shipments from Ireland to continent show increase. *Foreign Trade* 5: 167-169. Jan. 22, 1949. 286.8 C162
- 32425 RIAUZOV, N. N. Statistika sovetskoi torgovli [Statistics of Soviet trade]. Moskva, Gostorgizdat, 1948. 117 p. 267 R35St
- 32426 RIBEIRO, J. DE A. On the importing of powdered milk in Brazil. (In Portuguese.) *Rev. dos Criadores* 19(11): 52-53. Nov. 1948. 43.8 R32
- 32427 ROTTENSTEN, J. Export situation and export restrictions. (In Danish.) *Dansk Landbr.* 68(1): 9-14. Jan. 6, 1949. 280.28 V91
- Includes farm products.
- 32428 ROUSE, L. W., and ELY, J. E. What exporters should know about the new 1949 schedule B. *Foreign Com. Weekly* 34(5): 6-7, 45-46. Jan. 31, 1949. 157.54 F763
- 32429 SAMMONS, R. L., and CESTERO, B. H. Balance of external payments of Puerto Rico, 1942-1946. Río Piedras, Univ. de Puerto Rico, 1948. 65 p. 284 Sa4
- Includes trade in agricultural products.
- 32430 SANDBERG, A. M. The market for United States fishery products in Western Europe. U. S. Off. Foreign Agr. Relat. FFP-1-49, 22 p. Feb. 20, 1949. 1.943 F76294
- 32431 SCATTOLIN, L. The importation of food fats. (In Italian.) *Agricoltura [Milano]* (n. s.) 29(46): 1. Nov. 13, 1948. 16 Ag862
- 32432 STOCKING, G. W., and WATKINS, N. W. Cartels or competition? The economics of international controls by business and government. New York, Twentieth Century Fund, 1948. 516 p. 286 St63
- Discusses cartellization in agriculture.
- 32433 THOMAS, W. P. Comments on Mr. Wilcox's paper on foreign trade and western agriculture. *West. Farm Econ. Assoc. Proc.* (1948) 21: 52-53. 280.9 W527P
- 32434 TURKOWSKA, W. Polish export of eggs and table poultry. (In Polish.) *Przegl. Hodowlany* 16: 300-302; 360-363. Oct.-Nov. 1948. 49 P952
- 32435 UNITED NATIONS. INTERIM CO-ORDINATING COMMITTEE FOR INTERNATIONAL COMMODITY ARRANGEMENTS. Review of international commodity arrangements. Geneva, 1947. 58 p. 286 Un395



32436 U. S. BUR. OF THE CENSUS. Comparison of commodity classifications shown during 1937 through 1945 in schedule B, statistical classification of domestic & foreign commodities exported from the United States. Washington, 1947. 143 p. 157.41 C733  
Includes agricultural products.

32437 U. S. DEPT. OF STATE. California and foreign trade. Washington? 1947. 19 p. 150.1 C12  
Discusses effect of foreign trade upon agriculture.

32438 U. S. DEPT. OF STATE. Connecticut and foreign trade. Washington? 1947. 20 p. 150.1 C765  
Includes relation to agriculture.

32439 U. S. DEPT. OF STATE. Indiana and foreign trade. Washington? 1947. 22 p. 150.1 In2  
Includes effect on agriculture.

32440 U. S. DEPT. OF STATE. Iowa and foreign trade. Washington? 1947. 17 p. 150.1 Io9  
Discusses relation to agriculture.

32441 U. S. DEPT. OF STATE. Kentucky and foreign trade. Washington? 1947. 20 p. 150.1 K41  
Includes agriculture.

32442 U. S. DEPT. OF STATE. Massachusetts and foreign trade. Washington? 1947. 23 p. 150.1 M38  
Discusses effect of trade upon agriculture.

32443 U. S. DEPT. OF STATE. Michigan and foreign trade. Washington? 1947. 24 p. 150.1 M582  
Agricultural effects included.

32444 U. S. DEPT. OF STATE. Minnesota and foreign trade. Washington? 1947. 22 p. 150.1 M66  
Trade in relation to agriculture is discussed.

32445 U. S. DEPT. OF STATE. Missouri and foreign trade. Washington? 1947. 22 p. 150.1 M69  
Includes relation of trade to agriculture.

32446 U. S. DEPT. OF STATE. New Jersey and foreign trade. Washington? 1947. 23 p. 150.1 N44  
Includes effects on agriculture.

32447 U. S. DEPT. OF STATE. New York and foreign trade. Washington? 1947. 26 p. 150.1 N48  
Includes relation to agriculture.

32448 U. S. DEPT. OF STATE. Ohio and foreign trade. Washington? 1947. 21 p. 150.1 Oh3  
Includes relation to agriculture.

32449 U. S. DEPT. OF STATE. Texas and foreign trade. Washington? 1947. 22 p. 150.1 T313  
Includes effect on agriculture.

32450 U. S. DEPT. OF STATE. Washington and foreign trade. Washington? 1947. 21 p. 150.1 W27  
Includes effect on agriculture.

32451 U. S. DEPT. OF STATE. Wisconsin and foreign trade. Washington? 1947. 21 p. 150.1 W75  
Discusses agriculture as affected by trade.

32452 U. S. ECONOMIC COOPERATION ADMINISTRATION. ECA-USDA basic procurement agreement. Washington, 1948. 9 p. 173.2 Ec72Eca

32453 U. S. TARIFF COMMISSION. Summaries of tariff information. v. 2. Wool and manufactures. pt. 1. Raw wool and related hair. Washington, 1948. 46 p. 173 T17Su

32454 U. S. TARIFF COMMISSION. Summaries of tariff information. v. 7. Agricultural products and provisions (in six parts). pt. 1. Livestock, meats, and dairy and poultry products. Washington, 1948. 181 p. 171 T17Su

32455 U. S. TARIFF COMMISSION. Summaries of tariff information; vol. 7. Agricultural products and provisions (in six parts). pt. 6: principally vegetables, spices, cocoa, and long-staple cotton. Washington, 1948. 223 p. 173 T17Su

32456 WILCOX, F. R. Foreign trade and western agriculture. West. Farm Econ. Assoc. Proc. (1948)21: 47-51. 280.9 W527P

32458 BEROLZHEIMER, R., ed. Culinary Arts Institute encyclopedic cookbook. Chicago, Grosset & Dunlap, 1948. 966 p. 389.25 B453Cu

32459 BETTER HOMES AND GARDENS. Better homes & gardens cook book. Rev. ed. Des Moines, Meredith Pub. Co., 1947. 389.25 W972

32460 BOWLES, E. S., and TOWLE, D. S. Secrets of New England cooking. New York, Barrows, 1947. 327 p. 389.25 B68

32461 BRIWA, K. E. Good recipes for Maine potatoes. Maine. Agr. Col. Ext. B. 386, 12 p. Sept. 1948. 275.29 M281B

32462 BRIWA, K. E. New ways to make a cake. Maine. Agr. Col. Ext. B. 388, 12 p. 1948? 275.29 M281B

32463 BROBECK, F. R., and KJELLBERG, M. Scandinavian cookery for Americans. Boston, Little, Brown, 1948. 341 p. 389.25 B78Sc

32464 BURDICK, W. F. Newer concepts of infant feeding. Med. Ann. D. C. 18(1): 6-12, 57. Jan. 1949. 448.8 M4694

32465 CLAYTON, C. Keeping up to date on nutrition. IV. Pract. Home Econ. 27(2): 89, 105, 111. Feb. 1949. 321.8 H752

32466 DUNNING, J. M., and SHAW, J. H. Nutrition in dental education. Nutr. Revs. 6: 321-324. Nov. 1948. 389.8 N953

32467 FAUST, H., and MRAK, V. G. What about fish? Selection, food value and basic cooking methods. Calif. Agr. Col. Ext. C. 144, 12 p. Nov. 1948. 275.29 C12C

32468 FITCH, N. K., and FRANCIS, C. A. Foods and principles of cookery. New York, Prentice-Hall, 1948. 406 p. Ref. 389 F55

32469 GITI. Nutrition. (In Italian.) Campagna 47: 290. Nov. 1948. 16 C152

32470 HAUCK, H. M. How to control your weight. N. Y. Agr. Col. Cornell Ext. B. 329, rev., 16 p. Dec. 1948. 275.29 N48E

32471 HULT, M. Nutrition research and the dairy industry. Confectionery-Ice Cream World 41(2): 6. Jan. 14, 1949. 389.8 C767

32472 ISBELL, C. L. Tested recipes for the use of Alagold pumpkin. Ala. Polytech. Inst. Agr. Ext. C. 354, 4 p. Sept. 1947. 275.29 AL1C

32473 KIMBALL, O. P. Endemic goiter—a food deficiency disease. Amer. Dietet. Assoc. J. 25: 112-115. Ref. Feb. 1949. 389.8 Am34

32474 KING, C. G. New advances in the science of nutrition. Amer. Dietet. Assoc. J. 25: 109-111. Ref. Feb. 1949. 389.8 Am34

32475 LEWIS, P. Eating for health. New York, Macmillan, 1948. 121 p. 389.1 L584

32476 MCNAUGHTON, J. Nutrition survey of northern Australia. Food & Nutr. Notes & Rev. 5: 122-127. Nov./Dec. 1948. 389.9 Au73

32477 MASON, L. How to plan three meals a day. Tex. Agr. Col. Ext. C. 251, 8 p. Aug. 1948. 275.29 T312C

32478 MATTIMORE, J. Cooking by the clock; step by step preparation of meals. New York, Farrar, Straus, 1948. 230 p. 389.25 M43

32479 MOTTRAM, V. H. Human nutrition. Baltimore, Williams & Wilkins, 1948. 267 p. 389.1 M85Hu

32480 NELSON, R. N. Low-cost meals with high appeal. Hawaii. U. Agr. Ext. Home Econ. C. 225-A, 2 p. Oct. 1948. 275.29 H312H

32481 OHL, R. Edelgemüse und marmelade aus zucker- und futterrübe. Ed. 3. Erfurt, Tückhardt, 1948. 31 p. (Karteikurzberichte- u. Fachschriften-sammlung. 2) 389.25 Oh4

32482 OLSEN, A. M. Small game for dinner. Iowa. Agr. Expt. Sta. B. P96, p. 193-228. Nov. 1948. 100 Io9

Game cookery.

32483 PFAFF, F. Agriculture, distribution and nutrition. (In Czech.) Casopis Českoslov. Vet. 3: 461-463. Aug. 25, 1948. 41.8 C27

Russian, English and French summaries.

32484 PRENTICE, E. P. Progress: an episode in the history of hunger? Ed. 2, rev. New York, 1949. 264 p. 389.2 P91

Cookery history.

## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

32457 BARRETO, J. DE B., and CAVALCANTI, T. A. DE A. Contribution to the study of the nutrition problem of the Amazon Valley. (In Portuguese.) Inst. Oswaldo Cruz Mem. 45: 853-875. Ref. 1947. 448.9 In74



- 32485 QUINTIN OLASCOAGA, J. Datos para la historia de la nutriología en México. *Medicina; Rev. Mex.* 29(sup.): 10-16. (To be cont.) Jan. 25, 1949. 448.8 M4693
- 32486 ROLLINS, M. A. A low-cost diet from commonly used foods. *Farm Res.* [N. Y. State Sta.] 15: 5. Jan. 1949. 100 N48A
- 32487 SALAZAR LÓPEZ, D., MONTAÑO, A., and GARCÍA, M. V. Encuesta de alimentación y nutrición entre niños pobres del barrio de San Juanico, D. F. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9: 111-121. June 1948. 449.9 M572  
English summary.
- 32488 SHANK, R. E. Nutrition in preventive medicine. *Nutr. Revs.* 7(1): 1-3. Jan. 1949. 389.8 N953
- 32489 SHERMAN, H. C. Selected works. New York, Macmillan, 1948. 1056 p. 389.1 Sh5Sw  
Nutrition and food.
- 32490 STIEBELING, H. K. A long-range view of nutrition. *J. Home Econ.* 41(1): 1-4. Jan. 1949. 321.8 J82
- 32491 TOBEY, J. A. Your diet for longer life. New York, Funk, 1948. 280 p. Ref. 389.1 T55
- 32492 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Helping families plan food budgets. U. S. D. A. Misc. P. 662, 16 p. Dec. 1948. 1 Ag84M
- 32493 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes using fish. U. S. D. A. PA-66, 8 p. Dec. 1948. 1 Ag84Pro
- 32494 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes using honey. Washington? 1948. 7 p. 1.982 A2Sch65
- 32495 U. S. PRODUCTION AND MARKETING ADMIN. National School Lunch Program; percentage of school enrollment participating in program, 1948. Washington? 1948. Map. 1.956 A2N216
- 32496 ZIEGELMAYER, W. Zucker und volksernährung. *Natur u. Nahr.* 2(19/20): 1-3. Oct. 1948. 80 N218B

## FOOD HABITS

- 32497 MOOSE, R. M. Why some adults do not drink milk. *Calif. Med.* 70(1): 34. Jan. 1949. 448.8 C12

## NUTRITIVE AND VITAMIN CONTENT

- 32498 BRENNER, S. Experimentation with dried yeast for use in foods. (Abs.) *Canner* 107(20): 26. Nov. 13, 1948. 286.83 C16
- 32499 CASTLE, M. E., and GLÜCKSMANN, E. J. The nutritive value of milk. *Dairy Indus.* 13: 1199-1200. Dec. 1948. 44.8 D1427
- 32500 CHILDERS, N. F. We need nutritional research in cranberries. *Amer. Cranberry Growers' Assoc. Proc.* 79: 17-20, 22. 1948. 81 Am35C  
Discussion, p. 22-23.
- 32501 DAHLBERG, A. C. Ice cream—a nutritious food. *Confectionery-Ice Cream World* 41(2): 13, 16. Jan. 14, 1949. 389.8 C767  
Also in *South. Dairy Prod. J.* 45(2): 22, 50-51, 58-59. Feb. 1949. 44.8 So83
- 32502 DE, S. S. Supplementary effect of different varieties of soya-bean to poor rice diet. *Sci. and Cult.* 13: 120. Sept. 1947. 475 Sci24
- 32503 ELITHORN, A., JOHNSON, D. M., and CROSSKEY, M. A. Effects of agensised flour on man. *Lancet* [London] 256: 143-146. Jan. 22, 1949. 448.8 L22  
Flour treated with nitrogen trichloride showed no appreciable effect on children or adults.
- 32504 EVAPORATED MILK ASSOCIATION. For the calcium you need. Chicago, 1948. 4 p. 381.1 Ev12Fo
- 32505 IRAIZOZ, A. Poder nutritivo del melado de caña. *Tierra Libre* 13(2): 15. Feb. 1949. 8 T443
- 32506 JUDKINS, H. F. Ice cream—the perfect food. *Confectionery-Ice Cream World* 41(4): 14. Jan. 28, 1949. 389.8 C767
- 32507 KRUSE, H. D. A concept of the etiological complex of deficiency states with especial consideration of conditions. *Milbank Mem. Fund Q.* 27(1): 5-97. Ref. Jan. 1949. 449.9 M582
- 32508 LE LAIT dans l'alimentation. SPEL; B. Int. d'Inform. et de Doc. 3(12): 31-35. Dec. 1948. 44.8 Sp1
- 32509 LASKEY, H. S. White bread condemned. *Organic Gard.* 14(2): 41-42. Feb. 1949. 56.8 Or3
- 32510 LLEWELLIN, LORD. Address on food and health. *Roy. Sanit. Inst. J.* 69(1): 1-4. Jan. 1949. 449.9 R812
- 32511 MCCAY, C. M. Strong bones in old age. *Farm Res.* [N. Y. State Sta.] 15: 2. Jan. 1949. 100 N48A  
On the need of calcium in the diet of older people and animals.
- 32512 MCGOVERN, J. F. Canned foods a good nutritional buy. *Amer. Grocer* 161(1): 1-2. Jan. 5, 1949. 286.83 Am32
- 32513 MASON, W. Paid to eat ice cream. *Ice Cream Field* 53(1): 81. Jan. 1949. 389.8 Ic23  
Tests to determine nutritive value and cooling effect on the body.
- 32514 MASSIEU H., G., and others. Contenido en ácido ascórbico de algunas conservas mexicanas. *Ciencia* 8: 257-262. Ref. 1948. 475 C48  
Y. Trigo M., R. O. Cravioto B., and F. de P. Miranda, joint authors.
- 32515 MOORE, E. E. The role of vitamins in nutrition. *New Zeal. J. Agr.* 77: 619, 621-622. Dec. 1948. 23 N48J
- 32516 NOBLE, I., and GORDON, J. Thiamine and riboflavin retention in bacon. *Amer. Dietet. Assoc. J.* 25: 130-133. Ref. Feb. 1949. 389.8 Am34
- 32517 O'LANE, I. B. What! no oranges? *J. Home Econ.* 41(1): 31. Jan. 1949. 321.8 J82  
Nutritive value of rosehips.
- 32518 OSMOND, A. The nutritive value of food cooked in a pressure cooker. *Food & Nutr. Notes & Rev.* 5: 128-130. Nov./Dec. 1948. 389.9 Au73
- 32519 PAULA, R. D. DE G. The peanut, food of unusual value. (In Portuguese.) *Rev. de Quím. Indus.* 17(198): 21-26. Oct. 1948. 385 R324
- 32520 RÁFALES FERRER, S. La miel, panacea de vitalidad. *Cult. Mod.* 31: 324. Sept. 1948. 15 C89
- 32521 REGISTER, U. D., and others. Variations in the vitamin B<sub>12</sub> content of selected samples of pork and beef muscle. *Soc. Expt. Biol. & Med. Proc.* 70: 167-168. Jan. 1949. 442.9 So1  
U. J. Lewis, H. T. Thompson, and C. A. Elvehjem, joint authors.
- 32522 REYNOLDS, C. G. Research work in honey. *Mod. Beekeeping* 32: 802-805; 33: 11-14, 23. Dec. 15, 1948-Jan. 15, 1949. 424.8 B397  
Includes nutritive and therapeutic value.
- 32523 RUEHE, H. A. Dairy foods and the adequate diet; the nutritional importance and economy of milk and dairy products. *Milk Plant Monthly* 38(2): 36-37. Feb. 1949. 44.8 C864
- 32524 SHEFT, B. B., and others. Nutritive value of canned foods. *Indus. & Engin. Chem.* 41(1): 144-145. Jan. 1949. 381 J825  
R. M. Griswold, E. Tarlowsky, and E. G. Halliday, joint authors.
- 32525 SHIMER, S. R., and PURINTON, H. J. The ascorbic acid and carotene content of fresh and frozen New Hampshire berries. *N. H. Agr. Expt. Sta. Tech. B.* 92, 19 p. Ref. June 1948. 100 N45
- 32526 SPARAPANI, G. C. The egg considered from a nutritive angle. (In Italian.) *Alimenti* 4: 195-200. Sept./Oct. 1948. 389.8 AL44
- 32527 TALLARICO, G. The nutritive value of lactose. (In Italian.) *Mondo del Latte* 1948(12): 3-6. Dec. 1948. 44.8 M74  
Summary in French and English.
- 32528 TRIOLA, P. DE LA. La comestibilidad de los guisantes y judías. *Cult. Mod.* 31: 331-332. Sept. 1948. 15 C89
- 32529 TURMAN, E. J. The rib of beef—rich, delicious, wholesome, nourishing. *Amer. Hereford J.* 39(19): 74, 83. Feb. 1, 1949. 43.8 Am32
- 32530 U. S. PLANT, SOIL, AND NUTRITION LABORATORY. Factors affecting the nutritive value of foods. U. S. D. A. Misc. P. 664, 28 p. Dec. 1948. 1 Ag84M
- 32531 VAN ZEBEN, W., and HENDRIKS, T. F. The absorption of carotene from cooked carrots. *Internat. Z. f. Vitaminforsch.* 19: 265-266. 1948. 389.8 Z33  
Summary in French and German.
- 32532 WECKEL, K. G. Fat free vitamin fortified milk. *Milk Dealer* 38(4): 47-48, 80, 82, 84. Jan. 1949. 44.8 M595



## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 32533 AKADEMIJA SEL'SKOKHOZJAISTVENNYKH NAUK IMENI V. I. LENINA. O položneni v biologičeskoj nauke; stenografičeskij otčet sessii Vsesoiuznoj Akademii Sel'skokhozjaistvennykh Nauk imeni V. I. Lenina, 31 ifulja—7 avgusta 1948 g [On the situation in biological science. Stenographic report of the sessions of the All-Union Academy of Agricultural Sciences, July 31—Aug. 7, 1948]. Moskva, Sel'khozgiz, 1948. 534 p. 442.9 Ak12.
- 32534 BAKER, A. O., and MILLS, L. H. Dynamic biology today. Chicago, Rand McNally, 1948. 822 p. 442 B17
- 32535 BERNIS MADRAZO, F. La cigüeña y el agricultor. Agricultura [Madrid] 17: 409-411. Sept. 1948. 15 Ag84
- 32536 BIRECKI, M. New aspects in biology. (In Polish.) Przegl. Hodowlany 16: 365-370. Nov./Dec. 1948. 49 P952
- 32537 BLAIZOT, P. Les caroténoïdes. Oléagineux 4: 79-84. Ref. Feb. 1949. 77.8 OL2
- 32538 BRANCA, A., and VERNE, J. Précis d'histologie: la cellule—les tissus—les organes. Ed. 3. Paris, Masson, 1947. 613 p. 440 B73
- 32539 BRENDL, Planmässig gelenkte mutationen. Land, Wald u. Garten 3: 142-143. June 1948. 18 L22
- 32540 BREWSTER, R. Q. Organic chemistry. New York, Prentice-Hall, 1948. 840 p. (Prentice-Hall Chem. Ser.) 386 B75
- 32541 BROWN, V. The amateur naturalist's handbook. Boston, Little, Brown, 1948. 475 p. 409.5 B81
- 32542 CAREY, C. J. The California Agricultural Department. Packer 49(10): 6AAA. Feb. 5, 1949. 286.8 N483
- 32543 CAUDRI, L. W. D. Collective control of the brown rat. (In Dutch.) Netherlands. Landbouwworlichtingsdienst. Maandbl. 5: 565-567. Dec. 1948. 12 N383M
- 32544 CERES, Almanaque Agrícola, 8th, 1949. Valladolid, 1948? 415 p. 15 AL6
- 32545 CLEMENTS, E. S. Clean farms -vs- Bob White. La. Conserv. 1(3): 11-12. Nov. 1948. 279.8 L93
- 32546 COON, C. J. Natural color preservation [of biological and medical specimens]. Vet. Student 11(1): 20-25. Winter 1949. 41.8 V6425
- 32547 DARLINGTON, C. D., and LA COUR, L. F. The handling of chromosomes. Ed. 2. London, Allen & Unwin, 1947. 180 p. Ref. 442 D24H
- 32548 DAVIS, W. W. Energía atómica para la actividad agropecuaria. Hereford 15(96): 12-13. Jan. 1949. 43.8 H42
- 32549 ESTRELLA R., J. A. Observaciones sobre nuevos rodentícos en Perú. Ofic. Sanit. Panamer. B. 27: 1148-1149. Dec. 1948. 449.9 P192B  
English summary.
- 32550 FAIRCHILD, W. B. Renewable resources: a world dilemma. Recent publications on conservation. Geog. Rev. 39: 86-98. Jan. 1949. 500 Am35G
- 32551 FOX, C. P. What is a chicken hawk? Farm Q. 3(4): 66-71. Winter 1948. 6 F22995  
Kinds of hawks and what they eat.
- 32552 FOX, F. W. How chemists help to feed South Africa. So. African Indus. Chem. 2: 22-25, 44-46. Feb.-Mar. 1948. 385 So8  
Chemistry in soil research, fertilizer production, feed manufacture pest control, and the food industry.
- 32553 FRYKHOLM, L. Survey of the more important bibliographical aids of agriculture and related subjects. (In Swedish.) Kungl. Lantbruksakad. Tidskr. 87: 459-489. 1948. 104 Sw3  
English summary.
- 32554 GRAHAM, T. G. Activities of the Bureau of Tropical Agriculture. Queensland. Div. Plant Indus. Pam. 122, 13 p. Apr. 9, 1948. 423.92 Q3P
- 32555 GROSS, J. R. How to make a thallium sulphate solution. Pests 17(1): 17. Jan. 1949. 449.8 Ex8  
For rat control.
- 32556 HAINSWORTH, R. G. Agricultural geography of Europe and the Near East. Foreign Agr. 13: 3-7. Jan. 1949. 1.9 Ec7For
- 32557 HOWARD, L. B. Opportunities for chemists in the Bureau of Agricultural and Industrial Chemistry. J. Chem. Ed. 26(2): 74-78. Feb. 1949. 381 J826
- 32558 HUFNAGLE, R. W. Hit rats everywhere at once. Successful Farming 46(11): 149-151. Nov. 1948. 6 Su12  
Control program in Washington County, Nebraska.
- 32559 IDAHO. DEPT. OF AGRICULTURE. Fifteenth biennial report, July 1, 1946-June 30, 1948. Boise 1948. 39 p. 2 Id1
- 32560 ILLINOIS. DEPT. OF AGRICULTURE. Thirtieth annual report for the fiscal year beginning July 1, 1946, and ending June 30, 1947. Springfield, 1947. 285 p. 2IL6R
- 32561 JEFFERS, E. E. Species determination. Mont. Acad. Sci. Proc. 1947-48(7-8): 58964. 1948. 500 M762
- 32562 JONES, J. C. Skunks—and how to control them. Pests 17(2): 9-11. Feb. 1949. 449.8 Ex8
- 32563 JONES, M. P. Role of the extension entomologist in rat control programs. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 62-63. 1948. 423.9 Am32
- 32564 KALMBACH, E. R. Observations on new rodenticides. Ofic. Sanit. Panamer. B. 27: 1138-1147. Ref. Dec. 1948. 449.9 P192B  
Spanish summary.
- 32565 KNIGHT, R. L. Dictionary of genetics, including terms used in cytology, animal breeding and evolution. Waltham, Mass., Chron. Bot., 1948. 183 p. (Lotsya, v. 2) 443 K74
- 32566 LEMMON, A. B. Bio-assay of economic poisons. Pests 16(12): 10, 12, 14. Dec. 1948. 449.8 Ex8
- 32567 LONDON. CHEMICAL SOCIETY. Chemical progress: handbook of an exhibition held at the Science Museum, July to September 1947. London, H. M. Stationery Off., 1947. 80 p. 386 L842  
Includes use of chemicals in agriculture.
- 32568 LYSENKO, T. D. O položneni v biologičeskoj nauke [On the situation in the biological sciences]. Moskva, Sel'khozgiz, 1948. 62 p. 442 L99
- 32569 MCMANUS, J. J. Why the Food and Drug Administration is interested in pest control work. Pests 17(2): 20, 22, 24. Feb. 1949. 449.8 Ex8
- 32570 MAINE. DEPT. OF AGRICULTURE. Biennial report, July 1, 1946-June 30, 1948. 1948. 83 p. 2 N28R
- 32571 MAVOR, J. W. General biology. Ed. 3. New York, Macmillan, 1947. 986 p. 442 M442
- 32572 MIDDLETON, A. D. Rabbit control in Great Britain. Brit. Agr. B. 1: 81-84. Summer 1948. 10 B776
- 32573 MONTANA ACADEMY OF SCIENCES. Proceedings, seventh annual meeting, Helena, 1947; eighth annual meeting, Missoula, 1948. n. p., 1948. 144 p. 500 M762
- 32574 MORA DAVILA, N. El Ministerio de Agricultura y Ganadería. Rev. Nac. de Agr. 42(514): 18-22. Feb. 1948. 9.4 R32  
Colombia.
- 32575 NEBRASKA. DEPT. OF AGRICULTURE AND INSPECTION. Nebraska agriculture; biennial report 1945-1947. 1948? 67 p. 2 N274
- 32576 PENMAN, H. L. Physics in agriculture. J. Sci. Instruments 25: 425-432. Ref. Dec. 1948. 297.8 J82
- 32577 RAWLINS, G. M., and STRUBLE, A. H. Chemistry in action. Boston, Heath, 1948. 568 p. 386 R192
- 32578 RETTIE, J. C. Flash in the pan? Land 7: 333-336. Autumn 1948. 279.8 L22  
Natural resources waste.
- 32579 SCHMIDT, H. W. Fallen in den stallwänden. Saat u. Ernte 3(12): 5. Dec. 1948. 18 Sa12  
For animals.
- 32580 SCHMIDT, H. W. Der habichtsfang. Saat u. Ernte 3(11): 9. Nov. 1948. 18 Sa12



- 32581 SEARLS, E. M. Control of rodents and insects. Dairy World 27(8): 26-29. Jan. 1949. 44.8 D1423
- 32582 SERGENT, E. Rapport sur le fonctionnement de l'Institut Pasteur d'Algérie en 1947. Inst. Pasteur d'Algérie, Arch. 26: 317-331. Ref. 1948. 448.3 In7A
- 32583 SIRKE, M. J. De ontwikkeling der biologie [The development of biology] Ed. 2. Gorinchem. 1947. 184 p. (Noorduijn's Wetenschappelijke Reeks. 2) 442 Si70
- 32584 STENE, E. O. Kansas State Board of Agriculture; a study in Kansas administrative history. Lawrence, Kan., 1948. 76 p. (Kan. U., Lawrence. Bur. Govt. Res. Ser. 5) 281.029 St4
- 32585 STENKHOFF, G. Leitfaden der chemie für landwirte. Ed. 12. Hannover, Schaper, 1948. 147 p. 395 St4
- 32586 TENNESSEE. DEPT. OF AGRICULTURE. Farming and progress; thirty-seventh biennial report, 1946-48. Nashville, 1948. 518 p. 2 T25R
- 32587 TEREENT'EV, P. V. Malyi praktikum zoologii pozvonochnykh [Small handbook of vertebrate zoology]. Moskva, "Sovetskaya nauka", 1947. 483 p. 411 T27
- 32588 TRAVANCORE. DEPT. OF AGRICULTURE. Administration report, 1122 M. E. 1948. 41 p. 22 T69
- 32589 TRINIDAD AND TOBAGO. DIRECTOR OF AGRICULTURE. Administration report, 1947. 1948. 19 p. 8 T732
- 32590 U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Processed articles, Bureau of Agricultural and Industrial Chemistry. Washington? 1948? 16 p. 1.932 A2M652
- 32591 U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Report, 1947/48. Washington, 1948. 68 p. 1 C42
- 32592 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Report, 1947/48. Washington, 1948. 89 p. 1 P69
- 32593 U. S. DEPT. OF AGRICULTURE. Report of the Secretary, 1947/48. Washington, 1949. 170 p. 1 Ag84A
- 32594 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Annual report, 1947/48. Washington? 1948. 27 p. 1 In3R
- 32595 U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Report of the director, 1947/48. Washington, 1948. 36 p. 1 P432
- 32596 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SECRETARY. What about steel? By L. H. Bean. Washington, 1949. 2 p. 1.42 ad4B
- Steel statistics.
- 32597 U. S. DEPT. OF STATE. Books on science, from the United States. Washington, 1948. 102 p. 150.1 B64
- Contains agricultural material.
- 32598 U. S. OFF. OF BUDGET AND FINANCE. Report of the director, 1947/48. Washington, 1948. 49 p. 1 B85R
- 32599 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. TECHNICAL COLLABORATION BR. Semi-annual list of publications. Washington, 1948. 3 p. 1.943 Se5
- 32600 VERMONT. COMMISSIONER OF AGRICULTURE. Twenty-fourth biennial report 1947-48. Burlington, 1948. 123 p. 2 V593
- 32601 VILMORIN, R. DE. La génétique en Suède. Acad. d'Agr. de France. Compt. Rend. 34: 923-927. Nov. 24/Dec. 1, 1948. 14 P215Bc
- 32602 WANNER, K. Die vögel als helfer des bauern. Württemb. Wchnbl. f. Landw. 115: 410. Dec. 25, 1948. 18 W96
- 32603 WATSON, S. J. Chemistry and agriculture. Chem. & Indus. 42: 664-667. Oct. 16, 1948. 382 M31C
- 32604 WEST VIRGINIA. DEPT. OF AGRICULTURE. 18th biennial report, July 1, 1946 to June 30, 1948. 1948. 138 p. 2 W52R
- 32605 WINGE, Ø. Genetics and agriculture. (In Danish.) Tolvmandsbladet 20: 289-292. Dec. 1948. 11 T58
- 32606 ZECK, E. H. Control of mice and rats on the farm. Agr. Gaz. N. S. Wales 59: 534-536. Oct. 1948. 23 N472
- 32607 ABD-EL-SALAM, M. M. An outline of the history of agriculture in Egypt, from palaeolithic days to the Moslem invasion. Ed. 2. Cairo, 1948. 52 p. 30.9 Ab3
- 32608 ARTHUR GORDON RUGGLES 1875-1947. J. Econ. Ent. 41: 841-842. Oct. 1948. 421 J822
- 32609 BEEKEEPER of the month, C. H. Herndon. South. Beekeeper 2(11): 11. Nov. 1948. 424.8 So83
- 32610 BENJAMIN G. PRATT 1862-1947. J. Econ. Ent. 41: 840-841. Oct. 1948. 421 J822
- 32611 BEQUAERT, J. C. In memoriam, Richard Pearson Strong, M. D., Hon. Sci. D. J. Parasitol. 34: 515-517. Dec. 1948. 448.8 J824
- 32612 BLAIR, K. G. Obituary: Gilbert John Arrow, F. Z. S., F. R. E. S. Ent. Monthly Mag. 84: 264. Nov. 1948. 421 En86
- 32613 BONNER, J. C. Advancing trends in southern agriculture, 1840-1860. Agr. Hist. 22: 248-259. Oct. 1948. 30.98 Ag8
- 32614 BORGMEIER, T. Alfonso Dampf (1884-1948). (In Portuguese.) Rev. de Ent. 19: 588-589. Dec. 1948. 421 R326
- 32615 BORGMEIER, T. Hermann Schmitz, S. J. Rev. de Ent. 19: 587-588. Dec. 1948. 421 R326
- 32616 BORGMEIER, T. Oscar Monte (1895-1948). (In Portuguese.) Rev. de Ent. 19: 589-590. Dec. 1948. 421 R326
- 32617 BREDEMANN, G. Professor Dr. Emil Haselhoff. Bot. Oecon. 1: 117-119. Aug. 1948. 450 B6528
- 32618 BUMPUS, H. C., JR. Hermon Carey Bumpus, Yankee naturalist. Minneapolis, U. Minn. Press, 1947. 141 p. 120 B882
- 32619 CALE, G. H. Mary Geisler Phillips, who sang a song of workers with pockets full of wax. Amer. Bee J. 89: 76-77. Feb. 1949. 424.8 Am3
- 32620 CALLAWAY, J. E. The early settlement of Georgia. Athens, Univ. of Georgia Press, 1948. 138 p. Ref. 138 C133
- Includes agriculture.
- 32621 CASE, E. C. Lamarck and Lamarckism—a memorial. Biologist 31(1/2): 3-8. Nov. 1948. 442.8 B5263
- 32622 CHRISTENSEN, J. J. The ninety-eighth president of the AAAS. Sci. Monthly 68: 31-34. Jan. 1949. 470 Sci23
- E. C. Stakman.
- 32623 DAVIS, J. S., ed. Carl Alsberg, scientist at large. Stanford, Calif., Stanford U. Press, 1948. 182 p. 120 AL7
- 32624 EBERT, H. Hermann von Helmholtz. Stuttgart, Wissenschaftliche Verlagsgesellschaft, 1949. 199 p. (Grosse Naturforscher, v. 5) 120 H362
- 32625 EDELSTEN, H. M. Obituary. Arthur Robinson. Entomologist 81: 288. Dec. 1948. 421 En8
- 32626 ELIOT, C. W. John Gilley, Maine farmer and fisherman. Cornwall-on-Hudson, N. Y., Idlewild Press, 1947. 72 p. 120 G41
- 32627 ETIENNE Sergent (1878-1948). Inst. Pasteur d'Algérie, Arch. 26: 209-241. Ref. 1948. 448.8 In7A
- Travaux scientifiques d'Etienne Sergent, p. 215-241.
- 32628 GATES, R. R. Vavilov and the Soviets. Sci. and Cult. 12: 423-427. Mar. 1947. 475 Sci24
- 32629 HART, H. Elvin Charles Stakman: president of AAAS, 1949. Science 109: 1-2. Jan. 7, 1949. 470 Sci2
- 32630 HARTZELL, F. Z. Hugh Glasgow, 1884-1948. J. Econ. Ent. 41: 837-838. Oct. 1948. 421 J822
- 32631 HARTZELL, F. Z. Samuel Willard Harman, 1894-1948. J. Econ. Ent. 41: 838-839. Oct. 1948. 421 J822
- 32632 HOUSTON, J. Dr. George Scott Robertson. Nature [London] 163: 162. Jan. 29, 1949. 472 N21
- 32633 KALLBRUNNER, H. Maria Theresia und Josef II. als wegbereiter der bauernbefreiung. Landwirtschaft 1948: 281. Oct. 23, 1948. 19 L235
- 32634 KING, C. J. The first fifty years of agriculture in New South Wales. Rev. Mktg. Agr. Econ. 16: 362-417, 433-457. (Cont.) Ref. Aug.-Sept. 1948. 286.8 N47M
- 32635 MCMANUS, R. C. Meet Mr. Brannan. What sort of man is he? What's he likely to do? Farm J. 73 (2): 19, 175, 176. Feb. 1949. 6 F2212



32636 MAGROU, J. Nécrologie: Étienne Sergent (1878-1948). *Inst. Pasteur Ann.* 75: 564-566. Dec. 1948. 448.3 An75

32637 MARTIN, L. M. Jeane Daniel Gunter (1888-1948). *Lepidopterists' News* 2: 105. Dec. 1948. 421 L554

32638 MEINERS, E. P. Brief biographies. 15. Mary Esther Murtfeldt (1839-1913). *Lepidopterists' News* 2: 83. Oct. 1948. 421 L554

32639 MELLICK, A. D. Lesser crossroads, ed. from *The Story of an Old Farm*, by Andrew D. Mellick, Jr. New Brunswick, Rutgers U. Press, 1948. 402 p. 138 M49

Contains scattered references to early agriculture in New Jersey.

32640 MIDTTUN, O. Axel Heiberg. (In Norwegian.) *Tidsskr. for Skogbruk* 56: 201-206. Sept. 1948. 99.8 T432

32641 MILLER, W. H. Mark Catesby, eighteenth century naturalist. *N. Y. Bot. Gard. J.* 50: 1-7. Jan. 1949. 451 N48J

32642 ORTON, C. R. Anthony Berg, 1888-1948. *Phytopathology* 39: 28-30. Jan. 1949. 464.8 P56

Includes list of his publications.

32643 PALHINHA, R. T. Letters of Alphonse de Candolle to the Count of Ficalho. (In Portuguese.) *Bro-téria* 17: 172-181. Nov. 1948. 410 B79C

32644 PHILLIPS, E. F. Lorenzo Lorraine Langstroth. A biography. *Amer. Bee J.* 89: 22-23, 78. Jan.-Feb. 1949. 424.8 Am3

32645 RASMUSSEN, P. The first lady of the honey industry. *Amer. Bee J.* 89(1): 16-17. Jan. 1949. 424.8 Am3

Harriet M. Grace.

32646 REMINGTON, J. E. Alfred Jefferis Turner (1861-1947). *Lepidopterists' News* 2: 82. Oct. 1948. 421 L554

32647 REMINGTON, J. E. Brief biographies. Supplementary notes on John Abbot. *Lepidopterists' News* 2: 108. Dec. 1948. 421 L554

32648 RUMILLY, R. Le frère Marie-Victorin et son temps. Montréal, Les frères des écoles chrétiennes, 1949. 459 p. 120 M33

32649 SHERMAN, J. D., JR. J. R. de la Torre-Bueno. *Brooklyn Ent. Soc. B.* 43: 154-156. Dec. 1948. 420 B79

32650 SLOSS, M. W. Charles Henry Stange, D.V.M. *Vet. Excerpts* 8(5/6): 99-104. 41.8 V6419

32651 STEERE, W. C. Abel Joel Grout (1867-1947). *Bryologist* 51: 201-212. Dec. 1948. 450 B84

Includes list of his publications.

32652 SVANBERG, O. The contributions of J. J. Berzelius to the Royal Academy of Agriculture and to the development of agricultural science. (In Swedish.) *K. Lantbruksakad. Tidskr.* 87: 327-332. 1948. 104 Sw3

English summary.

32653 SVOBODIN, L. V. Timiryazev and Lysenko; the memory of the great liberal Russian scientist Timiryazev dishonored by Soviets. *J. Hered.* 39: 336-338. Nov. 1948. 442.8 Am8

32654 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Condensed history of the U. S. Department of Agriculture, by T. S. Harding. *Rev. Washington?* 1949. 15 p. ([Rpt.] 4) 1.914 A2C75

32655 U. S. LIBRARY OF CONGRESS. Centennial of the Oregon Territory exhibition, September 11, 1948 - January 11, 1949. Washington, 1948. 76 p. 138 Un32

Contains bibliographical material on agriculture.

32656 ZAVADSKII, K. M. I. V. Michurin, zamechatel'nyĭ preobrazovatel' prirody [I. V. Michurin, a remarkable transformer of nature]. Leningrad, 1948. 34 p. 463.62 Z1

#### HOME MANAGEMENT

32657 AGENDA de la ménagère agricole, 30th, 1949. 1948? 160 p. 14 Ag32

France.

32658 ARKANSAS COUNCIL OF HOME DEMONSTRATION CLUBS. Proceedings of the twentieth annual meeting at University of Arkansas, Sept. 7-10, 1948. Fayetteville? Ark. Agr. Col. Ext., 1948. 70 p. 275.29 Ar412P

32659 COMSTOCK, R. B. Make your own chair covers. *N. Y. Agr. Col. Cornell Misc. B.* 7, 35 p. Oct. 1948. 275.29 N48Cm

32660 CRESSWELL, M. Learning how to live. *Ext. Serv. Rev.* 20: 6. Jan. 1949. 1 Ex892Ex

Home demonstration program.

32661 EELLS, M. W. A touch of parsley; a young home economist in business. New York, Dodd, Mead, 1948. 245 p. 321 Ee5

32662 LOW, F. W., DARDEN, G., and ALLEN, W. S. Hanging out the wash. *Tex. Agr. Col. Ext. Leaflet* L-83, 4 p. Sept. 1948. 275.29 T313

32663 MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. A career for you in home demonstration. St. Paul, 1948. 8 p.-folder. 275.2 M66Ca

32664 MITCHELL, S. Cooking utensils. *Ala. Polytech. Inst. Agr. Ext. C.* 358, 8 p. Dec. 1947. 275.29 AL1C

32665 MITCHELL, S. The kitchen range. *Ala. Polytech. Inst. Agr. Ext. C.* 360, 4 p. Dec. 1947. 275.29 AL1C

32666 SCOTT, C. L. Child's self-help overall. U. S. D. A. Leaflet 251, 4 p. Dec. 1948. 1 Ag84L

32667 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Report, 1947/48. Washington, 1948. 16 p. 1 H75

32668 WIELAND, L. L. At work in the kitchen. Scranton, Pa., Internatl. Textbook, 1948. 129 p. 321 W63

#### INTERNATIONAL RELATIONS

32669 DODD, N. E. FAO - growth of international co-operation. *United Nations B.* 6(1): 26-27. Jan. 1, 1949. 280.8 Un383

32670 DODD, N. E. Let there be bread; and fats and fruit, meat and fish and vegetables. *United Nations World* 3(2): 62-63. Feb. 1949. 280.8 Un384

Work of the Food and Agriculture Organization of the United Nations.

32671 FAWCETT, E. J. Background and development of the Food and Agriculture Organization. *New Zeal. J. Agr.* 77: 335-338. Oct. 1948. 23 N48J

32672 FILENI, E. The International Institute of Agriculture. (In Italian.) *Terra [Firenze]* 60(5): 1. Jan. 30, 1949. 16 T274

32673 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Information and publications policies and channels of communication with member governments. Washington, 1948. 15 p. 389.9 F7351a

32674 OLSON, K. FAO Conference—a report of progress. *Foreign Agr.* 13: 8-10. Jan. 1949. 1.9 Ec7For

32675 PAGANI, L. Notes on the Marshall Plan for European economic reconstruction and considerations on the manner of administration best adapted to Italy, with special attention to the agricultural sector. (In Italian.) *Agr. delle Venezie* 2: 617-631. July/Aug. 1948. 16 Ag826

#### METEOROLOGY

32676 BARGER, G. L., and THOM, H. C. S. A method for characterizing drought intensity in Iowa. *Agron. J.* 41: 13-19. Jan. 1949. 4 Am34P

32677 CROCE, F. M. La lucha contra las heladas por el agitación del aire. *Bolsa de Com., Rosario. Rev.* 36(886): 17-18. Dec. 15, 1948. 287 R71

32678 DESSUREAUX, L., and GODBOUT, E. Thirty-five years of weather records at Sainte-Anne-de-la-Pocatière. *Sci. Agr.* 29(1): 13-26. Ref. Jan. 1949. 7 Sci2

32679 FARWELL, C. A. Past experiments and future prospects of artificial rain making. *Sugar Indus.* 2(6): 20-23. Nov./Dec. 1948. 65.8 Su332

Text also in Spanish.

32680 HANSEN, H. The weather conditions in the farm year 1947-48. (From October 1, 1947 to September 30, 1948). (In Danish.) *Tidsskr. for Landøkonomi* 1948: 565-602. Dec. 1948. 11 T43

32681 KESSLER, O. W. *Wetterkunde für gärtner, weinbauern und landwirte*. Ed. 2, rev. by W. Kaempfert. Stuttgart, Ulmer, 1948. 83 p. (Grundlagen und Fortschritte im Garten- und Weinbau. 13). 340 K48

32682 LONGMIRE, C. Long-range weather forecasting. *Westralian Farmers' Co-op Gaz.* 14: 383, 385. Dec. 1948. 280.28 W522



- 32683 LYONS. CENTRE NATIONAL DE DÉFENSE CONTRE LA GRELE. Rapport général sur la défense contre la grele en France, 1947. 1948? 61 p. 345 L99
- 32684 PALLMANN, H., and FREI, E. Die natürlichen produktions-grundlagen. In Switzerland. Schweizerische Milchkommission. Die schweizerische Milchwirtschaft, p. 27-40. Thun, 1948. 44 Sw62
- 32685 PETITJEAN, L. L'état actuel de la prévision du temps à longue échéance. Rev. Agr. de l'Afrique du Nord 46: 581-582. Nov. 19, 1948. 80 R326
- 32686 SANTOMAURO, L. Climate as a factor in agriculture. (In Italian.) B. dell'Agr. 82(21): 1. Oct. 29, 1948. 16 B87
- 32687 STAPLETON, H. N. Meteorological observations for October, 1948. Mass. Agr. Expt. Sta. Met. Ser. B. 718, 4 p. Oct. 1948. 100 M38H
- 32688 STAPLETON, H. N. Meteorological observations for November 1948. Mass. Agr. Expt. Sta. Met. Ser. B. 719, 4 p. Nov. 1948. 100 M38H
- 32689 TRUMBLE, H. C. Rainfall, evaporation and drought-frequency in South Australia. So. Austral. Dept. Agr. J. 52: 55-60. Sept. 1948. 23 So84
- 32690 ZINGG, A. W. A study of the movement of surface wind. Agr. Engin. 30(1): 11-13, 19. Jan. 1949. 58.8 Ag83

## RESEARCH

- 32691 ALGERIA. SERVICE D'INFORMATION. Stations expérimentales du Sud algérien. Alger, 1948. 6 p. (Its Documents Algériens. Sér. Economique. 45) 108 A136
- 32692 ARKANSAS. AGRICULTURAL EXPERIMENT STATION. A look ahead at Arkansas agriculture; fifty-eighth annual report, 1946/47-1947-48. Ark. Agr. Expt. Sta. B. 483, 23 p. Dec. 1948. 100 Ar42
- 32693 BINNS, J. H. Big building program proposed by Regents to bring plants up to date, enlarge work; more facilities needed to make certain that research and experimentation keeps pace with the continuing need of Washington farmers for new knowledge, new methods, new varieties. Co-op Chick News 19(10): 10-11. Oct. 1948. 47.8 C783
- 32694 BOERGER, A. El enlace entre la investigación agronómica y el ambiente productivo rural. Ingen. Agron. 9(3): 1-14. May/June 1948. 9 In4
- 32695 CLEMARES MIRALLES, E. Gran centro de investigaciones agrarias. Cult. Mod. 31: 336. Sept. 1948. 15 C89
- Work of the Agricultural Research Center at Beltsville.
- 32696 DOUGHERTY, J. L. The importance of agricultural research in South Africa and United States. Farmer [Pietermaritzburg] 37(45): 19. (Concl.) Nov. 5, 1948. 24 F227
- 32697 FALDINI, J. Impresiones sobre los centros investigadores de los E. Unidos. Uruguay. Min. de Ganad. y Agr. B. Inform. 244: 9, 14. Nov. 11, 1948. 9.9 G15G
- 32698 GIMINGHAM, C. P. T. Agricultural research institutes [Germany]. U. S. Off. Pub. Bd. Rpt. 93766: 5-6. 1948. 157.8 R29
- 32699 GT. BRIT. COLONIAL OFF. COMMITTEE FOR COLONIAL AGRICULTURAL, ANIMAL HEALTH AND FOREST RESEARCH. Recommendations for the organization of colonial research in agriculture, animal health and forestry. London, 1948. 15 p. (Gt. Brit. Colon. Off. Colon. 219) 281.171 G792
- 32700 GUEZENNEC, G. Les découvertes sensationnelles des agronomes soviétiques. Terre 215: 1, 3; 217: 1, 3. Nov. 25/Dec. 1-9, 1948. 281.8 T27
- Genetics research.
- 32701 IDAHO. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Idaho; fifty-fifth annual report, year ending June 30, 1948. Idaho. Agr. Expt. Sta. B. 270, 68 p. July 1948. 100 Id1
- 32702 MARYLAND. AGRICULTURAL EXPERIMENT STATION. Progress in farm research; sixtieth annual report of the Maryland Agricultural Experiment Station, 1946/47, by W. B. Kemp. College Park, 1948? 34 p. 100 M36S

- 32703 MORGAN, D. H. A manual for master's thesis and reports. Fort Collins, Colo. Agr. and Mech. Col., 1948. 125 p. 200.4 M82
- 32704 PEASE, D. C., and BAKER, R. F. Preliminary investigations of chromosomes and genes with the electron microscope. Science 109: 8-10, 22. Jan. 7, 1949. 470 Sci2
- 32705 SCHLEH, E. J. Antecedentes de la intervención y reorganización de la Estación Experimental Agrícola de Tucumán. Buenos Aires, 1947. p. 119-139. 102.5 T79A
- 32706 SONNEBORN, T. M. Beyond the gene. Amer. Sci. 60: 33-59. Ref. Jan. 1949. 470 Si2
- 32707 STAKMAN, E. C. Science in the service of agriculture. Sci. Monthly 68: 75-83. Feb. 1949. 470 Sci23
- 32708 TEXAS RESEARCH FOUNDATION. Scientific research for agriculture and industry. Renner, Tex., 1948. 12 p. 330.9 T31S
- 32709 THOMAS, G. C. H. Agricultural research in St. Vincent. Crown Colon. 19(206): 18-19. Jan. 1949. 280.8 C88
- 32710 U. S. EMBASSY. GREAT BRITAIN. Report on the Agricultural Research Council, by P. Schuyler and other members of the Scientific Office. London, 1948. 17 p. 10 G795U
- 32711 U. S. EMBASSY. GREAT BRITAIN. Report on the Department of Scientific and Industrial Research. London, 1948. 27 p. 330.9 G792Rs
- 32712 U. S. OFF. OF THE ADMIN., RESEARCH AND MARKETING ACT. Report, 1947/48. Washington, 1948. 54 p. 1 Ag84
- 32713 URB. Die Landwirtschaftliche Forschungsgemeinschaft für Bayern. Landw. Wchnbl. 138: 394. Nov. 27, 1948. 18 L2338
- 32714 UTAH. AGRICULTURAL EXPERIMENT STATION. Biennial report, 1946 - 1948. Utah. Agr. Expt. Sta. B. 336, 50 p. Jan. 1949. 100 Ut1
- 32715 WILHELM, J. O. Research organization in Ontario. Ontario Ent. Soc. Ann. Rpt. (1947)78: 6-7. 1948. 420 On8
- 32716 WYOMING. AGRICULTURAL EXPERIMENT STATION. Fifty eighth annual report, 1947/48. Laramie, 1948. 64 p. 100 W99

## STATISTICS

- 32717 BURDICK, R. T. The adequacy of statistical data from the viewpoint of the agricultural economist. West. Farm Econ. Assoc. Proc. (1948)21: 77-81. 280.9 W527P
- 32718 MILES, I. E. Handling quantities of data with business machines. Better Crops Plant Food 33: 12, 46-47. Jan. 1949. 6 B46
- 32719 NORTH CAROLINA. UNIVERSITY. INSTITUTE OF STATISTICS. The Institute of Statistics, the University of North Carolina. Raleigh? 1948. 22 p. 251 N81
- 32720 SARLE, C. F., and CALLANDER, W. F. How some of the needs for agricultural statistics can be met by sampling. Washington, U. S. Bur. Agr. Econ., 1948. 11 p. 1.941 A2Sa7
- 32721 SARLE, C. F. Outlook for more adequate statistical data for the western states. West. Farm Econ. Assoc. Proc. (1948)21: 67-76. 280.9 W527P
- 32722 SCOTT, G. A. Practical limitations and possibilities for expanding agricultural statistical work in the Western States. West. Farm Econ. Assoc. Proc. (1948)21: 82-84. 280.9 W527P
- 32723 SEN, A. R. Statistical methods in Indian agriculture with special reference to U. P. Indian J. Agr. Econ. 3(2): 41-47. Sept. 1948. 281.8 In2
- 32724 UNITED NATIONS. SUB-COMMISSION ON STATISTICAL SAMPLING. A brief statement on the uses of sampling in censuses of population, agriculture, public health, and commerce. Lake Success, 1948. 15 p. 251 Un35



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Agricultural Information Series

U. S. DEPT. OF AGRICULTURE. First aid for flooded homes and farms. U. S. D. A. AIS-75, rev., 19 p. Nov. 1948. 1 Ag84Ai

Circulars

COWDEN, J. M., and TRELOGAN, H. C. Flexibility of operation in dairy manufacturing plants. U. S. D. A. C. 799, 40 p. Sept. 1948. 1 Ag84F

Department Bulletins

U. S. PRODUCTION AND MARKETING ADMIN. Market classes and grades of livestock. U. S. D. A. Dept. B. 1360, slightly rev., 30 p. Dec. 1948. 1 Ag84B

Farmers' Bulletins

ERDMAN, L. W. Legume inoculation; what it is, what it does. U. S. D. A. Farmer's B. 2003, 20 p. Dec. 1948. 1 Ag84F

EVANS, L. S., MITCHELL, J. W., and HEINEN, R. W. Using 2,4-D safely. U. S. D. A. Farmers' B. 2005, 10 p. Nov. 1948. 1 Ag84F

IMES, M. The sheep tick [*Melophagus ovinus*] and its eradication by dipping. U. S. D. A. Farmers' B. 798, slightly rev., 23 p. July 1948. 1 Ag84F

MCKEE, R., and STEPHENS, J. L. Kudzu as a farm crop. U. S. D. A. Farmers' B. 1923, slightly rev., 14 p. Dec. 1948. 1 Ag84F

WALKER, J. C. Diseases of cabbage and related plants. U. S. D. A. Farmers' B. 1439, rev., 38 p. Nov. 1948. 1 Ag84F

Leaflets

EATON, O. N. Hamster raising. U. S. D. A. Leaflet 250, 6 p. 1949. 1 Ag84L

FINNELL, H. H. Soil moisture and wheat yields on the High Plains. U. S. D. A. Leaflet 247, 8 p. 1948. 1 Ag84L

SCOTT, C. L. Child's self-help overall. U. S. D. A. Leaflet 251, 4 p. Dec. 1948. 1 Ag84L

Miscellaneous Publications

COPLEY, T. L., BRITT, C. S., and POSEY, W. B. Conservation practices for tobacco lands of the flue-cured and Maryland belts. U. S. D. A. Misc. P. 656, 44 p. Ref. Nov. 1948. 1 Ag84M

DAVIS, E. C. Farmhouse plans for Northeastern States. U. S. D. A. Misc. P. 658, 19 p. Dec. 1948. 1 Ag84M

STEER, H. B., comp. Lumber production in the United States, 1799-1946. U. S. D. A. Misc. P. 669, 233 p. Ref. Oct. 1948. 1 Ag84M

TOSTLEBE, A. S., and others. The balance sheet of agriculture, 1948. U. S. D. A. Misc. P. 672, 38 p. 1948. 1 Ag84M

F. L. Garlock, R. J. Burroughs, H. C. Larsen, H. T. Lingard, L. R. Hudson, and S. L. Yarnall, joint authors.

U. S. BUR. OF ANIMAL INDUSTRY. Career opportunities for graduate veterinarians in the Bureau of Animal Industry. U. S. D. A. Misc. P. 671, 18 p. Oct. 1948. 1 Ag84M

U. S. BUR. OF ANIMAL INDUSTRY. The National Turkey Improvement Plan. U. S. D. A. Misc. P. 555, rev., 32 p. June 1948. 1 Ag84M

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Helping families plan food budgets. U. S. D. A. Misc. P. 662, 16 p. Dec. 1948. 1 Ag84M

U. S. FOREST SERV. Forests and national prosperity; a reappraisal of the forest situation in the United States. U. S. D. A. Misc. P. 668, 99 p. Aug. 1948. 1 Ag84M

U. S. PLANT, SOIL, AND NUTRITION, LABORATORY. Factors affecting the nutritive value of foods. U. S. D. A. Misc. P. 664, 28 p. Dec. 1948. 1 Ag84M

Program Aid

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes using fish. U. S. D. A. PA-66, 8 p. Dec. 1948. 1 Ag84Pro

U. S. FOREST SERV. You and forest fires. U. S. D. A. PA-64, 16 p. 1948. 1 Ag84Pro

U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Manage farm ponds for bass and bluegills. U. S. D. A. PA-65, 2 p. 1948. 1 Ag84Pro

Puerto Rico. Federal Experiment Station

CHILDERS, N. F., ROBLES, P. S., and LOUSTA-LOT, A. J. Bay oil production in Puerto Rico. Puerto Rico. Fed. Expt. Sta. Mayaguez. C. 30, 32 p. Ref. Dec. 1948. 1 Ex65

Technical Bulletins

BARKER, H. D., and POPE, O. A. Fiber and spinning properties of cotton: a correlation study of the effect of variety and environment. U. S. D. A. Tech. B. 970, 47 p. Ref. Dec. 1948. 1 Ag84Te

FIFE, L. C. Studies of the diapause in the pink bollworm [*Pectinophora gossypiella*] in Puerto Rico. U. S. D. A. Tech. B. 977, 26 p. Ref. Jan. 1949. 1 Ag84Te

WILM, H. G., and DUNFORD, E. G. Effect of timber cutting on water available for stream flow from a lodgepole pine forest. U. S. D. A. Tech. B. 968, 43 p. Ref. Nov. 1948. 1 Ag84Te

AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

EVANS, R. B. Synthetic fibers and paper as competitors of cotton. U. S. Bur. Agr. and Indus. Chem. AIC-217, 12 p. Dec. 10, 1948. 1.932 A2Ag82

U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Preparation of sulfured and maraschino cherries. U. S. Bur. Agr. and Indus. Chem. CA-6, 6 p. Ref. Dec. 1948. 1.932 A2C42

U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Processed articles, Bureau of Agricultural and Industrial Chemistry. Washington? 1948? 16 p. 1.932 A2M652

U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Report, 1947/48. Washington, 1948. 68 p. 1 C42

AGRICULTURAL ECONOMICS, BUREAU OF

GROVE, E. W. Measurement of farm income and expenditure. Washington, U. S. Bur. Agr. Econ., 1948. 15 p. 1.941 A2G91

Paper at meeting of the American Statistical Association, Cleveland, Dec. 29, 1948.

HOCHMUTH, H. R., and GOODSSELL, W. D. Commercial family-operated cattle ranches, Intermountain Region, 1930-47; organization, costs, and returns. U. S. Bur. Agr. Econ. F. M. 71, 29 p. Nov. 1948. 1.941 L6F22



PALMER, C. D., SCHLOTZHAUER, E. O., and KIESLER, P. F. Fruits and nuts; bearing acreage 1919-1946. U. S. Bur. Agr. Econ. CS-32, 39 p. Jan. 1949. 1.9422 A8C732

SARLE, C. F., and CALLANDER, W. F. How some of the needs for agricultural statistics can be met by sampling. Washington, U. S. Bur. Agr. Econ., 1948. 11 p. 1.941 A2Sa7

Address, American Statistical Association, Cleveland, Dec. 29, 1948.

SARLE, C. F., and ROBINSON, T. C. M. Measurement of agricultural production. Washington? U. S. Bur. Agr. Econ., 1948. 6 p. 1.941 A2Sa7

Address, American Statistical Association, Cleveland, Dec. 29, 1948.

SMITH, R. C. What's ahead for agriculture. Washington, U. S. Bur. Agr. Econ., 1948. 5 p. 1.941 A2Sm62

Talk at a meeting of the Special Farm Labor Committee, U. S. Employment Service, Washington, D. C., Dec. 8, 1948.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Acreage and production of vegetable seeds in 1947 and 1948. Washington, 1949. 8 p. 1.941 S3V52

U. S. BUR. OF AGRICULTURAL ECONOMICS. Cattle feed, January 1, 1949. Washington, 1949. 2 p. 1.9 Ec742Caf

U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey and beeswax production, 1948. Washington, 1949. 8 p. 1.941 H8H75

U. S. BUR. OF AGRICULTURAL ECONOMICS. Lamb feeding situation, December 1, 1948. Washington, 1948. 2 p. 1.9 Ec742Lam

U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks as of January 1, 1949, with comparisons. Washington, 1949. 4 p. 1.941 S8P85

U. S. BUR. OF AGRICULTURAL ECONOMICS. Milk production on farms and statistics of dairy plant products, 1948. Washington, 1949. 28 p. 1.941 H2M59

U. S. BUR. OF AGRICULTURAL ECONOMICS. Rations fed to milk cows, 1948, by J. L. Wilson and F. M. Taylor. Washington, 1949. 24 p. 1.941 H8F32

U. S. BUR. OF AGRICULTURAL ECONOMICS. Special freeze damage report (Florida, January 1-2, 1949). Washington, 1949. 1 p. 1.941 A2Sp33

U. S. BUR. OF AGRICULTURAL ECONOMICS. Statistics relative to American cheese production in New York State. Albany, 1948. 17 p. 1.941 H2C41  
New York State Department of Agriculture and Markets cooperating.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Survey indicates approximately 160,000 homes built on farms in 1947. Washington, 1948. 2 p. 1.941 A2Su8

#### AGRICULTURAL RESEARCH ADMINISTRATION

BARTLETT, K. A. A toad serves the sugar industry of Puerto Rico. U. S. Agr. Res. Admin. Res. Achvt. Sheet 118, 2 p. Jan. 1949. 1.98 R31

SANDERS, G. P., and SCHAAL, W. Test devised for determining adequacy of pasteurization in dairy products. U. S. Agr. Res. Admin. Res. Achvt. Sheet 117, 2 p. Jan. 1949. 1.98 R31

U. S. PLANT, SOIL AND NUTRITION LABORATORY. Directions for use of cobalt for sheep and cattle. n. p., 1948? 1 p. 1.98 D62

#### ANIMAL INDUSTRY, BUREAU OF

SPENCER, D. A. Karakul sheep investigations for lambskin fur improvement and associated problems in the wool and meat of Karakul sheep. U. S. Bur. Anim. Indus. A. H. D. 123, 3 p. Dec. 1948. 1.9 An52AH  
Presented at the annual meeting of the Karakul Fur Sheep Registry, Chicago, Dec. 3, 1948.

U. S. BUR. OF ANIMAL INDUSTRY. Publications on fur farming including rabbits. U. S. Bur. Anim. Indus. A. H. D. 82, rev., 4 p. Jan. 1949. 1.9 An52Ah

U. S. BUR. OF ANIMAL INDUSTRY. Report, 1947/48. Washington, 1948. 104 p. 1 Ag84

U. S. BUR. OF ANIMAL INDUSTRY. State inspectors for the National Poultry Improvement Plan and the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 124, 7 p. Jan. 1949. 1.9 An52Ah

U. S. BUR. OF ANIMAL INDUSTRY. State participation in the National Poultry Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 25, rev., 4 p. Jan. 1949. 1.9 An52Ah

U. S. BUR. OF ANIMAL INDUSTRY. ANIMAL HUSBANDRY DIV. Report of National Plans Conference, June 26-29, 1948 in St. Louis, Missouri. Washington? 1948. 100 p. 1.972 A3R295

U. S. BUR. OF ANIMAL INDUSTRY. MEAT INSPECTION DIV. Information for applicants for Federal meat inspection. Rev. Washington? 1948. 42 p. 1.9422 M8In3

U. S. EXPERIMENTAL FUR STATION. [Alaska offers excellent opportunities in fur farming.] Petersburg, Alaska, 1948? 2 p. 1.972 Z2AL1

#### BUDGET AND FINANCE, OFFICE OF

U. S. OFF. OF BUDGET AND FINANCE. Report of the director, 1947/48. Washington, 1948. 49 p. 1 B85R

#### COMMODITY CREDIT CORPORATION

U. S. COMMODITY CREDIT CORPORATION. Cuban sugar for the Army, 1948 fiscal year. Washington? 1948. 3 p. 1.957 C89

U. S. COMMODITY CREDIT CORPORATION. Report, 1947/48. Washington, 1948. 14 p. 1 C731

#### DAIRY INDUSTRY, BUREAU OF

REED, O. E. Looking ahead in the dairy industry. U. S. Bur. Dairy Indus. BDIM-Inf-69, 3 p. Feb. 1949. 1.973 D4B34

Remarks at meeting of the Richmond Cooperative Milk Producers Association, Richmond, Feb. 10, 1949.

U. S. BUR. OF DAIRY INDUSTRY. Address list of national and international dairy associations. U. S. Bur. Dairy Indus. BDIM-Inf-4, rev., 2 p. Nov. 1948. 1.973 D4B34

U. S. BUR. OF DAIRY INDUSTRY. Forage harvesting experiments at Beltsville, Md. U. S. Bur. Dairy Indus. BDIM-1041, 5 p. Jan. 1949. 1.9 D14Bd

U. S. BUR. OF DAIRY INDUSTRY. Partial list of references on processed cheese and cheese spreads. U. S. Bur. Dairy Indus. BDIM-INF-68, 2 p. Feb. 1949. 1.973 D4B34

U. S. BUR. OF DAIRY INDUSTRY. Silage making experiments at Beltsville, Md. U. S. Bur. Dairy Indus. BDIM-1042, 17 p. Jan. 1949. 1.9 D14Bd

WILLIAMS, D. H. The manufacture of ice cream. U. S. Bur. Dairy Indus. BDIM-Inf-67, 9 p. Jan. 1949. 1.973 D4B34

#### ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

BECK, E. W. Estimates of damage to corn by the European corn borer [*Pyrausta nubilalis*] in the United States in 1948. U. S. Bur. Ent. and Plant Quar. Insect Pest Survey. Spec. Sup. 1949(2), 2 p. Jan. 20, 1949. 1.9 En831B

BECK, E. W. Status of the European corn borer [*Pyrausta nubilalis*] in 1948. U. S. Bur. Ent. and Plant Quar. Insect Pest Survey. Spec. Sup. 1949(1), 16 p. Jan. 10, 1949. 1.9 En831B

BOTTGER, G. T., YERINGTON, A. P., and GERTLER, S. I. Preliminary tests on N-substituted p-nitrobenzamides as insecticides. U. S. Bur. Ent. and Plant Quar. E-764, 10 p. Dec. 1948. 1.9 En83

COOK, W. C., LANE, M. C., and STONE, M. W. Control of wireworms in irrigated lands with ethylene dibromide. U. S. Bur. Ent. and Plant Quar. EC-6, 8 p. Dec. 1948. 1.967 A2Ecl

COTTON, R. T., FRANKENFELD, J. C., and DENNIS, N. M. Residual sprays for use against the confused flour beetle [*Tribolium confusum*]. U. S. Bur. Ent. and Plant Quar. E-766, 15 p. Dec. 1948. 1.9 En83

LANE, M. C., and others. Studies with DDT as a control for wireworms in irrigated lands—progress report. U. S. Bur. Ent. and Plant Quar. E-765, 9 p. Dec. 1948. 1 En83

M. W. Stone, H. P. Lanchester, E. W. Jones, and K. E. Gibson, joint authors.



SILVER, J. C. Embedding beetles [Coleoptera in plastic. U. S. Bur. Ent. and Plant Quar. ET-263, 4 p. Nov. 1948. 1.9 En83Et

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. List of commercial airplane dusting and spraying companies. Washington, 1949. 8 p. 1.967 A2L693

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Report, 1947/48. Washington, 1948. 55 p. 1 En86

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. White pine blister rust (*Cronartium ribicola* Fischer). U. S. D. A. Picture Sheet 22, 2 p. Dec. 1948. 1 En86P

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. DIV. OF INSECT PEST SURVEY AND INFORMATION. Bureau of Entomology and Plant Quarantine articles published in 1947. U. S. Bur. Ent. and Plant Quar. E-767, 36 p. Dec. 1948. 1.9 En83

WAKELAND, C., and PARKER, J. R. Grasshopper control improved by new insecticides. U. S. Bur. Ent. and Plant Quar. EC-7, 8 p. Feb. 1949. 1.967 A2Ec1

WALKDEN, H. H., and WHITE, G. D. Status of the southwestern corn borer [*Diatraea grandiosella*] in Kansas and Oklahoma, fall 1948. U. S. Bur. Ent. and Plant Quar. Spec. Sup. 1948(8), 2 p. Dec. 28, 1948. 1.9 En831B

WOODROW, A. W. Tests with DDT on honey bees in small cages. U. S. Bur. Ent. and Plant Quar. E-763, 14 p. Dec. 1948. 1.9 En83

#### EXTENSION SERVICE

CONFERENCE OF NORTHEASTERN EXTENSION HORTICULTURISTS. [Proceedings, Aug. 25-26, 1948.] Washington, U. S. Ext. Serv., 1948. 25 p. 1.913 C3N813

DIXON, H. M. Progress report on extension marketing work under the Research and Marketing Act. Washington, U. S. Ext. Serv., 1948. 5 p. 1.913 E2D64

Presented before the Extension Section, Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 8, 1948.

MIDWEST EXTENSION MARKETING WORKSHOP, IOWA STATE COLLEGE, 1948. The job of extension workers in marketing, report of the Committee. Washington? U. S. Ext. Serv., 1948. 10 p. 1.913 C3M58

NORTH CENTRAL FARM MANAGEMENT EXTENSION COMMITTEE. Farm and home planning, North Central States. n. p., 1948. 22 p. 1.913 E2F2274

REESE, J. M. Today's home builds tomorrow's world. Washington, U. S. Ext. Serv., 1948. 3 p. 1.913 A2T56

Presented at the Annual National Home Demonstration Agents' Conference, Dec. 1, 1948, at Chicago.

RICHARDSON, E. C. "How much milk can you give." Washington? U. S. Ext. Serv., 1948. 4 p. 1.913 A2H838

Talk at the Editorial Office Organization and Procedure group session at the American Association of Agricultural College Editors' annual conference, Spokane, Aug. 2, 1948.

U. S. EXTENSION SERV. Addresses of State extension foresters. Washington, 1948. 4 p. 1.913 A2Ad12

U. S. EXTENSION SERV. Extension specialist in animal husbandry and veterinary science. Washington, 1948. 6 p. 1.913 A4Ex8

U. S. EXTENSION SERV. Observance of National 4-H Club Week, March 5-13, 1949, by G. L. Warren. Washington, 1948. 41 p. 1.913 F3N2142

Theme: Better living for a better world.

U. S. EXTENSION SERV. Readership study of Extension Service Review; a survey of what county agents read in the April-May 1948 issue. Washington, 1948. 4 p. 1.913 C2R22

U. S. EXTENSION SERV. Report of the President's Commission on Higher Education; its implication for the Extension Service, by H. C. Ramsower. Washington, 1948. 6 p. 1.913 A2P923

Presented before the Extension Section, Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 1948.

U. S. EXTENSION SERV. Report of work in agriculture and home economics, 1947/48. Washington, 1948. 50 p. 1 Ex892R

U. S. EXTENSION SERV. Some interesting facts about Loudoun County, Virginia. Washington? 1948. 1 p. 1.913 A2So526

U. S. EXTENSION SERV. Some interesting facts about Montgomery County, Maryland. Washington? 1948. 2 p. 1.913 A2So525

U. S. EXTENSION SERV. Some interesting facts about Prince William County, Virginia. Washington? 1948. 2 p. 1.913 A2So524

U. S. EXTENSION SERV. A suggested outline for a working relationship between a State forestry department and a State extension service. Washington? 1948. 1 p. 1.913 A2Su386

U. S. EXTENSION SERV. The training of extension personnel to meet present-day problems, by M. Justin. Washington, 1948. 4 p. 1.913 H2T682

Talk at the meeting of the Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 1948.

U. S. EXTENSION SERV. DIV. OF FIELD STUDIES AND TRAINING. Summary, county agent work, Massachusetts, 1947. Washington? 1948. 2 p. 1.913 S2Su64

U. S. EXTENSION SERV. DIV. OF FIELD STUDIES AND TRAINING. Summary, home demonstration work, Massachusetts, 1947. Washington? 1948. 2 p. 1.913 S2Su65

VARNEY, H. R. Extension's field in marketing. Washington, U. S. Ext. Serv., 1948. 5 p. 1.913 A2Ex844

Presented at the annual meeting of Association of Land-Grant Colleges and Universities, Washington, D. C., Nov. 8, 1948.

#### FARM CREDIT ADMINISTRATION

KNAPP, J. G. The future of cooperative purchasing. Washington, U. S. Farm Credit Admin., 1949. 6 p. 1.955 C2K72

Address, Farm Supply and Service Conference, Convention of the National Council of Farmer Cooperatives, Memphis, Jan. 4, 1949.

U. S. FARM CREDIT ADMIN. Loans by production credit associations. U. S. Farm Credit Admin. C. 3, rev., 7 p.-folder. Aug. 1948. 166.2 C49

U. S. FARM CREDIT ADMIN. Revised rules and regulations for production credit associations organized under the Farm Credit Act of 1933. Washington? 1949? 9 p. 1.955 A2R32

#### FARMERS HOME ADMINISTRATION

U. S. FARMERS HOME ADMIN. Status of active farm and home plan operating loan families in Connecticut, according to cash farm income in 1947. Washington? 1948. 1 p. 1.949 St2C

Similar reports for other States.

U. S. FARMERS HOME ADMIN. Status of active farm and home plan operating loan families in States under the jurisdiction of the Massachusetts office, according to cash farm income in 1947. Washington? 1948. 1 p. 1.949 St2Mss

#### FEDERAL CROP INSURANCE CORPORATION

U. S. FEDERAL CROP INSURANCE CORPORATION. Bean crop insurance for 1949; summary of major program provisions. Washington, 1949. 3 p. 1.952 B37

U. S. FEDERAL CROP INSURANCE CORPORATION. Multiple crop insurance, 1949; summary of major program provisions. Washington, 1948. 6 p. 1.952 M91

U. S. FEDERAL CROP INSURANCE CORPORATION. Report of the manager, 1947/48. Washington, 1948. 40 p. 1 C88R

U. S. FEDERAL CROP INSURANCE CORPORATION. Sales campaign suggestions for use by county offices. Washington? 1948. 1.952 Sa33

U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 tobacco Federal crop insurance program. Washington? 1948. 10 p. 1.952 F11

U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook, 1949 wheat. Washington? 1948. 11 p. 1.952 F314



U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook; monetary coverage insurance. Washington? 1948. 12 p. 1.952 W564

#### FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

SANDBERG, A. M. The market for United States fishery products in Western Europe. U. S. Off. Foreign Agr. Relat. FFP-1-49, 22 p. Feb. 20, 1949. 1.943 F76294

TROTTER, I. P. Observations on the cotton situation in China in 1948. U. S. Off. Foreign Agr. Relat. FC-1-49, 7 p. Jan. 31, 1949. 1.943 F7626

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. World food situation, 1949. U. S. Off. Foreign Agr. Relat. WFP-1-49, 60 p. Jan. 12, 1949. 1.943 F7625

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. TECHNICAL COLLABORATION BR. Semi-annual list of publications. Washington, 1948. 3 p. 1.943 Se5

#### FOREST SERVICE

EVERTS, A. B. Fire fog apparatus; Region 6, Snoqualmie National Forest. U. S. Forest Serv. E. D. Rpt. 16, 11 p. Dec. 1948. 1.962 A2Eq5

HORNIBROOK, E. M. Cubic-foot volume table for lodgepole pine. U. S. Forest Serv. Rocky Mountain Forest and Range Expt. Sta. Res. Note 4, 3 p. Dec. 20, 1948. 1.9622 R2R313

U. S. FOREST SERV. Classification of cooperative forest fire control expenditures under the Clarke-McNary Law, Section 2. Washington, 1948? 2 p. 1.962 C4C56

U. S. FOREST SERV. Forest regions of the United States; principal trees of the forest region. Rev. Washington, 1948. Map. 1 F76Fr

U. S. FOREST SERV. Norris-Doxey farm woodland management project. Washington, 1948. 1 p. 1.962 C5N79

U. S. FOREST SERV. Olympic National Forest, Washington. Washington? 1948. Map. 1 F765Ma

U. S. FOREST SERV. Our National forests; report of the Chief of the Forest Service, 1947/48. Washington, 1948. 54 p. 1 F76

U. S. FOREST SERV. [State forestry laws of Oklahoma.] Washington, 1948. 17 p. 1.9 F7681C

Similar compilations for other States.

U. S. FOREST SERV. Statistical supplement, report of the chief of the Forest Service, 1948. Washington? 1948. 16 p. 1 F76

U. S. FOREST SERV. SOUTHWESTERN FOREST AND RANGE EXPERIMENT STATION. Ranch Day, October 11, 1948. Tucson? 1948. 38 p. 1.9622 S3So81

Program, Eight Annual Ranch Day.

#### GRADUATE SCHOOL

U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Graduate School schedule of classes, spring semester, 1949. Washington, 1949. 8 p.-folder. 1 Ag854E

#### HUMAN NUTRITION AND HOME ECONOMICS, BUREAU OF

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family food consumption in Birmingham, Alabama, winter 1948. U. S. Bur. Human Nutr. and Home Econ. Food Consumption Surveys. Prelim. Rpt. 1, 30 p. Nov. 22, 1948. 1.982 A2F38

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Report, 1947/48. Washington, 1948. 16 p. 1 H75

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes using honey. Washington? 1948. 7 p. 1.982 A2Sch65

#### INFORMATION, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Annual report, 1947/48. Washington? 1948. 27 p. 1 In3R

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Condensed history of the U. S. Department of Agriculture, by T. S. Harding. Rev. Washington? 1949. 15 p. ([Rpt.] 4) 1.914 A2C75

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Farmers out to get corn borer [Pyrausta nubilalis], by C. M. Packard, D. Reynolds, H. B. Petty, and others. Washington? 1948. 6 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Thanksgiving miracle, by T. Noone, M. Speece, D. Lerch, and V. Tatum. Washington? 1948. 11 p. 1.914 R2T23

Television program.

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. MOTION PICTURE SERV. A special film release of the cooperative forest fire prevention campaign—Then it happened. Washington? 1948. 6 p. 1.914 M2Sp3

#### LIBRARY

U. S. DEPT. OF AGRICULTURE. LIBRARY. A bibliography on snow: list of references to material published 1940-1947, by D. W. Gooch. Washington? U. S. Forest Serv., 1948. 24 p. 1.916 B472

Compiled in the U. S. Department of Agriculture Library, but not mimeographed or distributed by the Library.

U. S. DEPT. OF AGRICULTURE. LIBRARY. Report, 1947/48. Washington, 1948. 9 p. 1 L61

#### PERSONNEL

U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Report of the director, 1947/48. Washington, 1948. 36 p. 1 P432

#### PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

PENTZER, W. T. A comparison of riding quality of refrigerator cars loaded with bananas shipped from New Orleans, Louisiana, to Chicago, Illinois, July 27-30, 1948. U. S. Bur. Plant Indus., Soils, and Agr. Engin. H. T. & S. Off. Rpt. 196, 14 p. Nov. 16, 1948. 1.9 P772Ht

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. 1948 report of the Uniform Alfalfa Nurseries, conducted cooperatively with the various State agricultural experiment stations represented in the Alfalfa Improvement Conference, by H. M. Tysdal. Beltsville, Md., 1948. 176 p. 1.9 P691Rep

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Report, 1947/48. Washington, 1948. 89 p. 1 P69

#### PRODUCTION AND MARKETING ADMINISTRATION

CRAWLEY, W. B. From this day forward. Washington? U. S. Prod. and Mktg. Admin., 1948. 10 p. 1.956 A2C85

Address before the Annual PMA Conference, St. Louis, Dec. 7, 1948.

KRUSE, E. F. Problems of the Commodity Credit Corporation and their relation to the Production and Marketing Administration. Washington? U. S. Prod. and Mktg. Admin., 1948. 5 p. 1.96 A2K94

Address before the Annual PMA Conference, St. Louis, Dec. 7, 1948.

THOMPSON, J. I. Looking toward a better marketing system. Washington? U. S. Prod. and Mktg. Admin., 1948. 7 p. 1.956 A2T37

Address before the Annual PMA Conference, St. Louis, Dec. 7, 1948.

TRIGG, R. S. The job ahead. Washington, U. S. Prod. and Mktg. Admin., 1948. 8 p. 1.956 A2T73

Address at opening of the PMA National Conference at St. Louis, Dec. 6, 1948.

TRIGG, R. S. The price support picture for 1949. Washington? U. S. Prod. and Mktg. Admin., 1949. 5 p. 1.956 A2T73

Summary of remarks at the 1949 State Goals Conference, Harrisburg, Jan. 10, 1949.

U. S. PRODUCTION AND MARKETING ADMIN. Annual report on tobacco statistics, 1948. U. S. Prod. and Mktg. Admin. CS-31, 71 p. Dec. 1948. 1.9422 A8C732



U. S. PRODUCTION AND MARKETING ADMIN.  
Cotton quality statistics, United States, 1947-48. U. S. Prod. and Mktg. Admin. CS-33, 61 p. Dec. 1948. 1.9422 A8C732

U. S. PRODUCTION AND MARKETING ADMIN.  
National School Lunch Program; percentage of school enrollment participating in program, 1948. Washington? 1948. Map. 1.956 A2N216

U. S. PRODUCTION AND MARKETING ADMIN.  
A partial list of firms handling seed testing equipment and supplies. Washington, 1948. 10 p. 1.956 G76P25

U. S. PRODUCTION AND MARKETING ADMIN.  
Peanuts; acreage allotments, price supports. Washington, 1948. 2 p. 1.956 A2P312

WOOLLEY, F. K. New legislation of interest to PMA. Washington? U. S. Prod. and Mktg. Admin., 1948. 8 p. 1.956 A2W88

Address before the Annual PMA Conference, St. Louis, Dec. 6, 1948.

#### RESEARCH AND MARKETING ACT, OFFICE OF THE ADMINISTRATOR

MEYER, E. A. Dairy research under the Research and Marketing Act. Washington, U. S. Res. and Mktg. Act, Off. Admin., 1948. 5 p. 1.9422 In2M57  
Excerpts from a talk before the Dairy Group of the American Farm Bureau Federation, Atlantic City, Dec. 13, 1948.

MEYER, E. A. Progress under the Research and Marketing Act. Washington, U. S. Res. and Mktg. Act, Off. Admin., 1948. 11 p. 1.9422 In2M57  
Talk before the Fruit and Vegetable Group of the American Farm Bureau Federation, Atlantic City, Dec. 13, 1948.

U. S. OFF. OF THE ADMIN., RESEARCH AND MARKETING ACT. Report, 1947/48. Washington, 1948. 54 p. 1 Ag84

#### RURAL ELECTRIFICATION ADMINISTRATION

U. S. RURAL ELECTRIFICATION ADMIN.  
Report, 1947/48. Washington, 1948. 26 p. 173.2 R88A

U. S. RURAL ELECTRIFICATION ADMIN.  
What to expect from a farm freezer. Washington? 1948. 7 p. 1.933 W553

WICKARD, C. R. Electric power for growing America. Washington, U. S. Rural Electrification Admin., 1949. 5 p. 1.91 A2W63

Address before a meeting of the Tennessee Rural Electric Cooperative Assoc., Nashville, Jan. 11, 1949.

WICKARD, C. R. A report on the condition and progress of rural electrification. Washington, U. S. Rural Electrification Admin., 1949. 7 p. 1.91 A2W63

Address at convention of National Rural Electric Cooperative Association, New York, Feb. 1, 1949.

#### SECRETARY, OFFICE OF

BRANNAN, C. F. Agriculture looks ahead. Washington, U. S. D. A., 1949. 12 p. 1.91 A2B73  
Talk at convention of the Mountain States Hardware and Implement Association, Denver, Jan. 12, 1949.

BRANNAN, C. F. Learning to live with our abundance. Washington, U. S. D. A., 1948. 11 p. 1.91 A2B73

Talk before the annual meeting of the Farmers Union Grain Terminal Association, St. Paul, Dec. 14, 1948.

BRANNAN, C. F. What kind of pressure. Washington, U. S. D. A., 1948. 11 p. 1.91 A2B73

Talk at convention of American Farm Bureau Federation, Atlantic City, Dec. 15, 1948.

KOENIG, N. What's ahead for the American farmer. Washington, U. S. D. A., 1948. 10 p. 1.91 A2K82

Talk before the Northeastern Poultry Producers Council Allied Industry Outlook Conference, Dec. 16, 1948, New York.

LOVELAND, A. J. Necessity is the mother of co-ops. Washington, U. S. D. A., 1949. 9 p. 1.91 A2L94

Talk at annual meeting of the National Council of Farmer Cooperatives, Memphis, Jan. 5, 1949.

U. S. DEPT. OF AGRICULTURE. Report of the Secretary, 1947/48. Washington, 1949. 170 p. 1 Ag84A

U. S. DEPT. OF AGRICULTURE. OFF. OF THE SECRETARY. What about steel? By L. H. Bean. Washington, 1949. 2 p. 1.42 Ad4B  
Statement on Station WCFM, Washington, Jan. 7, 1949.

#### SOIL CONSERVATION SERVICE

BENNETT, H. H. Need for soil conservation is still acute. Washington, U. S. Soil Conserv. Serv. 1949. 12 p. 1.96 Ad62

Address at Town Meeting of Businessmen, Spokane, Jan. 22, 1949.

BENNETT, H. H. Safeguarding the Nation's land. Washington, U. S. Soil Conserv. Serv., 1949. 9 p. 1.96 Ad62

Address before joint session, Washington State Legislature, Olympia, Jan. 20, 1949.

BENNETT, H. H. Soil conservation in the old lake bed area of northwestern Ohio. Washington? U. S. Soil Conserv. Serv., 1949. 11 p. 1.96 Ad62

Address, Paulding County Farm and Home Week soil conservation meeting, Paulding, Ohio, Jan. 6, 1949.

BENNETT, H. H. Soil conservation in the Plains country. Washington, U. S. Soil Conserv. Serv., 1949. 8 p. 1.96 Ad62

Address, Greater North Dakota Association and Fargo Chamber of Commerce banquet, Fargo, Jan. 26, 1949.

BENNETT, H. H. Soil conservation is a profitable investment. Washington, U. S. Soil Conserv. Serv., 1949. 10 p. 1.96 Ad62

Address at meeting, Washington State Association of Soil Conservation District supervisors, Wenatchee, Jan. 21-22, 1949.

U. S. SOIL CONSERVATION SERV. Report, 1947/48. Washington, 1948. 81 p. 1.6 So3R

U. S. SOIL CONSERVATION SERV. UPPER MISSISSIPPI REGION. Upper Mississippi River watershed, interim survey report: Whitewater River, Minnesota. Program for runoff and waterflow retardation and soil erosion prevention. n. p., 1948. 11 p. 1.9605 Up6



STATE AGRICULTURAL EXPERIMENT STATION  
PUBLICATIONS

April 1949

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona Agricultural Experiment Station, Tucson

SELTZER, R. E. Production, shipments, markets & prices of Desert grapefruit. *Ariz. Agr. Expt. Sta. Mimeog. Rpt. 83*, 49 p. Dec. 1947. 100 Ar4M

SELTZER, R. E. Possibilities of paperboard containers for fresh grapefruit. *Ariz. Agr. Expt. Sta. Mimeog. Rpt. 84*, 14 p. Sept. 1948. 100 Ar4M Preliminary report.

STANLEY, E. B. Cattle fattening projects, 1944-48. *Ariz. Agr. Expt. Sta. Mimeog. Rpt. 85*, 10 p. Sept. 1948. 100 Ar4M

BARR, G. W. Prices and costs in the Arizona dairy industry. *Ariz. Agr. Expt. Sta. Mimeog. Rpt. 86*, 15 p. Oct. 1948. 100 Ar4M

MCGEORGE, W. T. Nutrient interrelations in lime-induced chlorosis as revealed by seedling tests and field experiments. *Ariz. Agr. Expt. Sta. Tech. B. 116*, p. 297-338. Ref. Nov. 1948. 100 Ar4

Arkansas Agricultural Experiment Station, Fayetteville

ARKANSAS. AGRICULTURAL EXPERIMENT STATION. A look ahead at Arkansas agriculture; fifty-eighth annual report, 1946/47-1947/48. *Ark. Agr. Expt. Sta. B. 483*, 23 p. Dec. 1948. 100 Ar42

California Agricultural Experiment Station, Berkeley

LEE, I. M. California early potatoes situation and outlook, 1948. *Calif. Agr. Expt. Sta. C. 390*, 30 p. Nov. 1948. 100 C12S

HILGARDIA 18: 539-633. Nov.-Dec. 1948. 100 C12H

Colorado Agricultural Experiment Station, Fort Collins

ROBERTSON, D. W., and others. Culture of barley in Colorado. *Colo. Agr. Expt. Sta. Tech. B. 39*, 23 p. June 1948. 100 C71S

D. Koonce, R. Tucker, J. F. Brandon, and T. E. Haus, joint authors.

Connecticut (State) Agricultural Experiment Station, New Haven

FISHER, H. J. Report on inspection/commercial feeding stuffs, 1947. *Conn. (State) Agr. Expt. Sta. B. 522*, 119 p. May 1948. 100 C76St

LUNT, H. A. The forest soils of Connecticut. *Conn. (State) Agr. Expt. Sta. B. 523*, 93 p. Ref. July 1948. 100 C76St

TURNER, N., and WOODRUFF, N. Toxicity of DDT residues: effect of time of exposure of insects, coverage and tenacity. *Conn. (State) Agr. Expt. Sta. B. 524*, 35 p. Ref. Oct. 1948. 100 C76St

JONES, D. F., and EVERETT, H. L. Field corn trials, Mt. Carmel and Windsor, Connecticut, 1948. *Conn. (State) Agr. Expt. Sta. Rpt. Prog. 48G1*, 6 p. Jan. 15, 1948. 100 C76S

Connecticut (Storrs) Agricultural Experiment Station, Storrs

WHEELER, R. G., CLARENBACH, F. A., and DEWEY, A. W. Factors in the outlook for Connecticut Valley tobacco. *Conn. (Storrs) Agr. Expt. Sta. B. 256*, 39 p. June 1948. 100 C76S

SINGSEN, E. P. The phosphorus requirements of the chicken, with special reference to the availability of phytin phosphorus. *Conn. (Storrs) Agr. Expt. Sta. B. 260*, 53 p. Ref. Apr. 1948. 100 C76S

Delaware Agricultural Experiment Station, Newark

KENWORTHY, A. L., and GILLIGAN, G. M. Influence of soil management practices on tree growth and leaf and soil analysis in a young peach orchard. *Del. Agr. Expt. Sta. C. 21*, 10 p. Nov. 1947. 100 D37S

GILLIGAN, G. M., and PHILLIPS, C. E. Lime and the availability of plant food in soil. *Del. Agr. Expt. Sta. C. 23*, 8 p. Sept. 1948. 100 D37S

Florida Agricultural Experiment Station, Gainesville

STOUT, G. J. Freezing fruits and vegetables on Florida farms. *Fla. Agr. Expt. Sta. B. 441*, 30 p. Feb. 1948. 100 F66S

HOPKINS, E. F., and LOUCKS, K. W. A curing procedure for the reduction of mold decay in citrus fruits. *Fla. Agr. Expt. Sta. B. 450*, 26 p. Ref. Oct. 1948. 100 F66S

KESTERSON, J. W., and MCDUFF, O. R. Florida citrus oils; commercial production methods and properties of essential oils (1947-48 season). *Fla. Agr. Expt. Sta. B. 452*, 44 p. Ref. Nov. 1948. 100 F66S

KINCAID, R. R., and VOLK, G. M. Soil fumigation for cigar-wrapper tobacco fields. *Fla. Agr. Expt. Sta. Press B. 655*, 4 p. Oct. 1948. 100 F66F

MCCUBBIN, E. N., EDDINS, A. H., and KELSHEIMER, E. G. Growing cabbage plants in seedbeds. *Fla. Agr. Expt. Sta. Press B. 656*, 4 p. Nov. 1948. 100 F66S

DICKEY, R. D. Blackberry culture in Florida. *Fla. Agr. Expt. Sta. Press B. 657*, 4 p. Dec. 1948. 100 F66S

Georgia Agricultural Experiment Station, Experiment

FORD, K. E. Georgia sweet potato production, disposition, and price. *Ga. Agr. Expt. Sta. B. 258*, 20 p. Nov. 1948. 100 G29S

Georgia Coastal Plain Experiment Station, Tifton

GEORGIA COASTAL PLAIN EXPERIMENT STATION. Upland permanent pastures for the Coastal Plain of Georgia. *Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 1*, rev., 2 p. Nov. 1948. 100 G292M

GEORGIA COASTAL PLAIN EXPERIMENT STATION. Soybeans. *Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 11*, rev., 2 p. Dec. 1948. 100 G292M

GEORGIA COASTAL PLAIN EXPERIMENT STATION. Lowland permanent pastures for the Coastal Plain of Georgia. *Ga. Coastal Plain Agr. Expt. Sta. Mimeog. Paper 58*, 2 p. Nov. 23, 1948. 100 G292M

Idaho Agricultural Experiment Station, Moscow

IDAHO. AGRICULTURAL EXPERIMENT STATION. Agricultural research in Idaho; fifty-fifth annual report, year ending June 30, 1948. *Idaho. Agr. Expt. Sta. B. 270*, 68 p. July 1948. 100 Id1

SEELY, C. I., KLAGES, K. H., and SCHAFER, E. G. Controlling perennial weeds with sodium chlorate, carbon bisulfide, and borax. *Idaho. Agr. Expt. Sta. B. 271*, 22 p. Nov. 1948. 100 Id1

Illinois Agricultural Experiment Station, Urbana

NEVENS, W. B., HARSHBARGER, K. E., and KENDALL, K. A. Legumes and grasses for silage; a report of experiments. *Ill. Agr. Expt. Sta. B. 529*, 27 p. Nov. 1948. 100 IL6S

LARSH, H. W., and ANDERSON, H. W. Bacterial spot of stone fruit, with special reference to epiphytotics and dissemination of the causal organism. *Ill. Agr. Expt. Sta. B. 530*, 54 p. Ref. Nov. 1948. 100 IL6S

Iowa Agricultural Experiment Station, Ames

DIETZ, S. M., and YOUNG, R. A. Oak wilt—a serious disease in Iowa. *Iowa. Agr. Expt. Sta. B. P91*, 20 p. July 1948. 100 Io9



SHANK, N. Make your kitchen modern. Iowa. Agr. Expt. Sta. B. P92, p. 23-51. Aug. 1948. 100 Io9

SHANK, N. Running water for your farm home. Iowa. Agr. Expt. Sta. B. P94, p. 131-160. Aug. 1948. 100 Io9

HULL, D. O. Tractor plow adjustment and operation. Iowa. Agr. Expt. Sta. B. P95, p. 163-188. Nov. 1948. 100 Io9

OLSEN, A. M. Small game for dinner. Iowa. Agr. Expt. Sta. B. P96, p. 193-228. Nov. 1948. 100 Io9

HUTCHCROFT, C. D., and ROBINSON, J. L. The 1948 Iowa corn yield test. Iowa. Agr. Expt. Sta. B. P97, p. 232-292. Feb. 1949. 100 Io9

WILSIE, C. P., and HOLLOWELL, E. A. Effect of time of cutting red clover on forage yields, seed setting and chemical composition. Iowa. Agr. Expt. Sta. Res. B. 357, p. 639-668. June 1948. 100 Io9

KALTON, R. R. Breeding behavior at successive generations following hybridization in soybeans. Iowa. Agr. Expt. Sta. Res. B. 358, p. 671-732. Ref. Dec. 1948. 100 Io9

#### Kansas Agricultural Experiment Station, Manhattan

AUBEL, C. E. Swine production in Kansas. Kans. Agr. Expt. Sta. B. 334, 75 p. Feb. 1949. 100 K13S

MCCOY, J. H. The stock-share lease. Kans. Agr. Expt. Sta. C. 252, 45 p. Nov. 1948. 100 K13S

KOUDELE, J. W. Producing and marketing eggs in the Wichita area. Kans. Agr. Expt. Sta. C. 254, 8 p. Dec. 1948. 100 K13S

MCCALL, G. L., and ZAHNLEY, J. W. Control of noxious perennial grasses with trichloroacetates. Kans. Agr. Expt. Sta. C. 255, 8 p. Jan. 1949. 100 K13S

CLAPP, A. L. Cooperative sorghum variety tests, 1948. Kans. Agr. Expt. Sta. Rpt. Prog. Ser. C. E. 13, 2 p. 1948? 100 K13Rs

MILLER, E. C., and others. The effect of defoliation on the functions of red winter wheat. Kans. Agr. Expt. Sta. Tech. B. 62, 95 p. Ref. 100 K13S

G. A. Gries, W. A. Lunsford, and J. C. Frazier, joint authors.

#### Louisiana Agricultural Experiment Station, University Station, Baton Rouge

DANIELSON, C. B., and BARLOW, F. D., JR. Management problems on farms growing sweet potatoes in the Macon Ridge Area of Louisiana. La. Agr. Expt. Sta. Mimeog. C. 87, 69 p. Dec. 1948. 100 L935

MCGOUGH, M. L., and BARLOW, F. D., JR. An analysis of the farm business and the dairy enterprise on dairy farms in the North Louisiana Upland Cotton Area. La. Agr. Expt. Sta. Mimeog. C. 88, 149 p. Dec. 1948. 100 L935

U. S. Bureau of Agricultural Economics cooperating.

#### Maryland Agricultural Experiment Station, College Park

MARYLAND. AGRICULTURAL EXPERIMENT STATION. Progress in farm research; sixtieth annual report of the Maryland Agricultural Experiment Station, 1946/47, by W. B. Kemp. College Park, 1948? 34 p. 100 M36S

#### Massachusetts Agricultural Experiment Station, Amherst

FRANKLIN, H. J., and CROSS, C. E. Weather in relation to cranberry production and condition. Mass. Agr. Expt. Sta. B. 450, 15 p. July 1948. 100 M38H

MASSACHUSETTS FEED CONTROL SERV. Inspection of commercial feedstuffs. Mass. Agr. Expt. Sta. Control Ser. B. 136, 24 p. June 1948. 100 M38H

MASSACHUSETTS FERTILIZER CONTROL SERV. Inspection of commercial fertilizers and agricultural lime products. Mass. Agr. Expt. Sta. Control Ser. B. 137, 16 p. July 1948. 100 M38H

MASSACHUSETTS. STATE COLLEGE. POULTRY DISEASE CONTROL LABORATORY. Twenty-eighth annual report of pullorum disease eradication in Massachusetts. Mass. Agr. Expt. Sta. Control Ser. B. 138, 11 p. July 1948. 100 M38H

STAPLETON, H. N. Meteorological observations for October and November 1948. Mass. Agr. Expt. Sta. Met. Ser. B. 718, 4 p.; B. 719, 4 p. Oct.-Nov. 1948. 100 M38H

#### Michigan Agricultural Experiment Station, East Lansing

MICHIGAN. AGRICULTURAL EXPERIMENT STATION. Public land ownership in the Lake States. Mich. Agr. Expt. Sta. Spec. B. 351, 28 p. Aug. 1948. 100 M58S

COOK, R. L., and MILLAR, C. E. Plant nutrient deficiencies diagnosed by plant symptoms, tissue tests, soil tests. Mich. Agr. Expt. Sta. Spec. B. 353, 80 p. Jan. 1949. 100 M58S

MOTTS, G. N. Wholesale public produce markets in Michigan. Mich. Agr. Expt. Sta. Spec. B. 354, 72 p. Dec. 1948. 100 M58S

BOGER, L. L. Seasonal price changes of major Michigan farm products. Mich. Agr. Expt. Sta. Spec. B. 355, 52 p. Jan. 1949. 100 M58S

#### Minnesota Agricultural Experiment Station, University Farm St. Paul

DOWELL, A. A., and BREKKE, A. Trends in prices of purebred cattle. Minn. Agr. Expt. Sta. B. 398, 19 p. Apr. 1948. 100 M66

ROST, C. O., KRAMER, H. W., and MCCALL, T. M. Fertilization of sugar beets in the Red River Valley. Minn. Agr. Expt. Sta. B. 399, 14 p. June 1948. 100 M66

WINTERS, L. M., and others. Experiments with inbreeding swine. Minn. Agr. Expt. Sta. B. 400, 28 p. June 1948. 100 M66

D. L. Dailey, P. S. Jordan, O. M. Kiser, R. E. Hodgson, J. N. Cummings, and C. F. Sierk, joint authors.

CRIM, R. F., and others. Maturity ratings of corn hybrids registered for sale in Minnesota in 1947. Minn. Agr. Expt. Sta. Misc. Rpt. 5, 24 p. June 1948. 100 M66

H. K. Hayes, E. H. Rinke, G. Joachim, R. E. Hodgson, R. O. Bridgford, and O. C. Soine, joint authors.

MILLER, D. G., and MANSON, P. W. Durability of concretes and mortars in acid soils, with particular reference to drain tile. Minn. Agr. Expt. Sta. Tech. B. 180, 80 p. Ref. June 1948. 100 M66

#### Mississippi Agricultural Experiment Station, State College

BAIN, D. C., and PRESLEY, J. T. Diseases of truck crops and their control in Mississippi. Miss. Agr. Expt. Sta. B. 453, 27 p. Apr. 1948. 100 M69

PARVIN, D. W. The nature of an efficient agriculture in the Brown Loam area of Mississippi. Miss. Agr. Expt. Sta. B. 455, 34 p. June 1948. 100 M69

#### Missouri Agricultural Experiment Station, Columbia

TROWBRIDGE, E. A., L'HOTE, H. J. and BREUER, J. R. Fertilizer inspection and analysis; fall 1947. Mo. Agr. Expt. Sta. B. 516, 37 p. July 1948. 100 M693

TALBERT, T. J., and SMITH, J. E., JR. The multiflora rose as a living hedge fence. Mo. Agr. Expt. Sta. B. 517, 11 p. Sept. 1948. 100 M693

SMITH, D. D., WHITT, D. M., and MILLER, M. F. Cropping systems for soil conservation. Mo. Agr. Expt. Sta. B. 518, 26 p. Sept. 1948. 100 M693

LONGWELL, J. H., and others. Use of commercial plant foods on Missouri farms. Mo. Agr. Expt. Sta. B. 519, 18 p. Oct. 1948. 100 M693

A. W. Klemme, H. J. L'Hote, and J. R. Breuer, joint authors.

SWARTWOUT, H. G. Growing gooseberries and currants. Mo. Agr. Expt. Sta. C. 327, 12 p. Apr. 1948. 100 M693

HASEMAN, L. Control of household insects. Mo. Agr. Expt. Sta. C. 328, 20 p. May 1948. 100 M693

TUCKER, C. M. Controlling plant diseases in the home garden. Mo. Agr. Expt. Sta. C. 329, 8 p. June 1948. 100 M693



MILLER, M. F. Let's look at the soil. Mo. Agr. Expt. Sta. C. 330, 47 p. July 1948. 100 M693

HIBBARD, A. D., and SCHROEDER, R. A. Plant late for fall vegetables. Mo. Agr. Expt. Sta. C. 331, 12 p. July 1948. 100 M693

HASEMAN, L. Controlling garden insects. Mo. Agr. Expt. Sta. C. 332, 4 p. Oct. 1948. 100 M693

Nebraska Agricultural Experiment Station, Lincoln

KIESSELBACH, T. A., and LYNES, W. E. Growing the winter wheat crop. Nebr. Agr. Expt. Sta. B. 389, 32 p. Aug. 1948. 100 N27

NEBRASKA AGRICULTURAL EXPERIMENT STATION. The Nebraska tractor tests, 1920-1948. Nebr. Agr. Expt. Sta. B. 392, 51 p. Jan. 1949. 100 N27

FELTON, M. W., and LIVINGSTON, J. E. Seed and soil treatments for vegetable crops grown in Nebraska. Nebr. Agr. Expt. Sta. C. 86, 19 p. Aug. 1948. 100 N27

Nevada Agricultural Experiment Station, Reno

SHIPLEY, M. A., and HEADLEY, F. B. Nutritive value of wild meadow hay as affected by time of cutting. Nev. Agr. Expt. Sta. B. 181, 23 p. Aug. 1948. 100 N41S

SMITH, O. F. Diseases of alfalfa in Nevada and their influence on choice of varieties. Nev. Agr. Expt. Sta. B. 182, 28 p. Ref. Oct. 1948. 100 N41S

New Hampshire Agricultural Experiment Station, Durham

SHIMER, S. R., and PURINTON, H. J. The ascorbic acid and carotene content of fresh and frozen New Hampshire berries. N. H. Agr. Expt. Sta. Tech. B. 92, 19 p. Ref. June 1948. 100 N45

New Jersey Agricultural Experiment Station, New Brunswick

BEAR, F. E., and PRINCE, A. B. Magnesium needs of New Jersey soils. N. J. Agr. Expt. Sta. B. 739, 19 p. May 1948. 100 N46S

PEPPER, B. B. Vegetable insects and their control on commercial plantings. N. J. Agr. Expt. Sta. B. 740, 15 p. Apr. 1948. 100 N46S

METZGER, H. J., and SHUART, C. E. Adult and calfhood vaccination for control of brucellosis. N. J. Agr. Expt. Sta. B. 741, 19 p. Sept. 1948. 100 N46S

SNELL, R. S., and others. Growing winter wheat in New Jersey. N. J. Agr. Expt. Sta. B. 743, 27 p. Oct. 1948. 100 N46S

C. S. Garrison, G. H. Ahlgren, and J. E. Baylor, joint authors.

PRINCE, A. L., and BEAR, F. E. Phosphorus needs of New Jersey soils. N. J. Agr. Expt. Sta. B. 744, 20 p. Oct. 1948. 100 N46S

CARNCROSS, J. W. Declining vegetable yields challenge New Jersey farmers. N. J. Agr. Expt. Sta. C. 519, 8 p. Sept. 1948. 100 N46S

NEW JERSEY AGRICULTURAL EXPERIMENT STATION. The New Jersey State seed law. N. J. Agr. Expt. Sta. C. 520, 8 p. Sept. 1948. 100 N46S

NEW JERSEY AGRICULTURAL EXPERIMENT STATION. Fertilizer and lime recommendations for New Jersey. N. J. Agr. Expt. Sta. C. 521, 15 p. Dec. 1948. 100 N46S

New Mexico College of Agriculture, Extension Service, State College

COCKERILL, P. W. Freight rates on New Mexico livestock and feed. N. Mex. Agr. Expt. Sta. B. 346, 14 p. Dec. 1948. 100 N46S

STROMAN, G. N. 1517B, a new strain of 1517 cotton for the Rio Grande Valley. N. Mex. Agr. Expt. Sta. P. B. 1027, 7 p. Jan. 1949. 100 N46S

New York (Cornell) Agricultural Experiment Station, Ithaca

RASMUSSEN, M. P. Consumer purchases of fresh vegetables at retail (prewar, wartime, and postwar). N. Y. (Cornell) Agr. Expt. Sta. B. 849, 51 p. Dec. 1948. 100 N48C

CLARK, B. E. Nature and causes of abnormalities in onion seed germination. N. Y. (Cornell) Agr. Expt. Sta. Mem. 282, 27 p. Ref. Dec. 1948. 100 N48C

New York (State) Agricultural Experiment Station, Geneva

HARMAN, S. W. The red-banded leaf roller [*Argyrotaenia velutinana*] as an apple pest in New York. N. Y. (State) Agr. Expt. Sta. B. 733, 23 p. May 1948. 100 N48

PALMITER, D. H. Sooty blotch disease [*Gloeodes pomigena*] of pears and its control. N. Y. (State) Agr. Expt. Sta. B. 734, 14 p. Nov. 1948. 100 N48

FARM research 15: 16 p. Jan. 1949. 100 N48A

North Carolina Agricultural Experiment Station, State College Station, Raleigh

MAYO, S. C., and FULLERTON, K. S. Medical care in Greene County. N. C. Agr. Expt. Sta. B. 363, 31 p. Nov. 1948. 100 N81

North Dakota Agricultural Experiment Station, State College Station, Fargo

ANDERSON, A. H., and VERGERONT, G. V. Rural communities and organizations; a study of group life in Wells County, North Dakota. N. Dak. Agr. Expt. Sta. B. 351, 80 p. June 1948. 100 N813

SCHAFFNER, L. W. Barley marketing in North Dakota. N. Dak. Agr. Expt. Sta. B. 352, 24 p. June 1948. 100 N813

Oklahoma Agricultural Experiment Station, Stillwater

LINN, E. R. A forest industries survey of Oklahoma. Okla. Agr. Expt. Sta. B. B-325, 25 p. Dec. 1948. 100 Ok4

HARPER, H. J., and others. Fertilizer recommendations for Oklahoma crops. Okla. Agr. Expt. Sta. B. B-326, 14 p. Jan. 1949. 100 Ok4

H. F. Murphy, F. B. Cross, and H. B. Cordner, joint authors.

OKLAHOMA AGRICULTURAL EXPERIMENT STATION. Irrigation for Oklahoma. Okla. Agr. Expt. Sta. C. C-131, 28 p. Dec. 1948. 100 Ok4

HARPER, H. J., and BRENSING, O. H. Effect of ammonium nitrate on corn production in Oklahoma, 1948. Okla. Agr. Expt. Sta. Mimeog. C. M-178, 9 p. Jan. 1949. 100 Ok4M

CANODE, C. L. Soybean variety tests, 1948. Okla. Agr. Expt. Sta. Mimeog. C. M-179, 8 p. 1948? 100 Ok4M

CURRENT farm economics 21: 121-145. Dec. 1948. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

MILLER, P. W., and SCHUSTER, C. E. The decline and death of walnuts in the Pacific Northwest. Oreg. Agr. Expt. Sta. B. 453, 20 p. June 1948. 100 Or3

HOWELL, H. B. A legume for acid soils, *Lotus uliginosus* (L. major). Oreg. Agr. Expt. Sta. B. 456, 25 p. July 1948. 100 Or3

BULLIS, D. E., PRICE, F. E., and KIRK, D. E. Relationship of maturing and weathering to yield and quality of peppermint oil. Oreg. Agr. Expt. Sta. B. 458, 14 p. Aug. 1948. 100 Or3

UPCHURCH, M. L. Oregon's capacity to produce. Oreg. Agr. Expt. Sta. B. 459, 20 p. Oct. 1948. 100 Or3

DELOACH, D. B., and MOORE, J. C. Trial shipments of Oregon late-crop potatoes. Oreg. Agr. Expt. Sta. B. 460, 32 p. Oct. 1948. 100 Or3

POWERS, W. L., TORGERSON, E. F., and DANNEN, E. V. Identification and productivity of western Oregon soil types. Oreg. Agr. Expt. Sta. C. 175, 29 p. July 1948. 100 Or3

HARPER, J. A., and GRIEBELER, W. L. Turkey range equipment. Oreg. Agr. Expt. Sta. C. 176, 4 p. Sept. 1948. 100 Or3



KUHLMAN, G. W., and MUMFORD, D. C. Cost of producing loganberries (for processing) in the Willamette Valley, Oregon. Oreg. Agr. Expt. Sta. C. Inform. 443, 7 p. Dec. 1948. 100 Or3C

DICKINSON, E. M. A disposal pit for dead chickens and turkeys. Oreg. Agr. Expt. Sta. C. Inform. 444, 3 p. Dec. 1948. 100 Or3C

FREED, V. H., and BIERMAN, H. E. A preliminary report on experiments to control quackgrass. Oreg. Agr. Expt. Sta. C. Inform. 445, 3 p. Dec. 1948. 100 Or3C

LORANT, G., and WIEGAND, E. H. Testing acceptability of food products; taste test procedure. Oreg. Agr. Expt. Sta. C. Inform. 446, 2 p. Jan. 1949. 100 Or3C

VAUGHAN, E. K. Controlling damping-off in vegetable seedlings. Oreg. Agr. Expt. Sta. C. Inform. 447, 2 p. Jan. 1949. 100 Or3C

#### Pennsylvania Agricultural Experiment Station, State College

STERN, J. K., and DORAN, H. F. Farmers' support of cooperatives. Pa. Agr. Expt. Sta. B. 505, 41 p. Nov. 1948. 100 P381

NOLL, C. J., and ODLAND, M. L. Sweet corn variety and strain trials - 1948. Pa. Agr. Expt. Sta. J. Ser. Paper 1478, 9 p. Oct. 12, 1948. 100 P381J

ODLAND, M. L., and NOLL, C. J. Snap bean variety and strain trials, 1948. Pa. Agr. Expt. Sta. J. Ser. Paper 1479, 3 p. Oct. 14, 1948. 100 P381J

ODLAND, M. L., and NOLL, C. J. Lima bean variety and strain trials - 1948. Pa. Agr. Expt. Sta. J. Ser. Paper 1480, 3 p. Oct. 14, 1948. 100 P381J

LARSON, R. E. Pea variety and strain trials, 1948. Pa. Agr. Expt. Sta. J. Ser. Paper 1481, 3 p. Oct. 20, 1948. 100 P381J

ODLAND, M. L. Carrot variety and strain trials - 1948. Pa. Agr. Expt. Sta. J. Ser. Paper 1484, 4 p. Nov. 3, 1948. 100 P381J

ODLAND, M. L., and NOLL, C. J. Tomato variety hybrid and strain trials, 1948. Pa. Agr. Expt. Sta. J. Ser. Paper 1485, 5 p. Nov. 8, 1948. 100 P381J

ODLAND, M. L., and NOLL, C. J. Pop corn variety and strain trials, 1948. Pa. Agr. Expt. Sta. J. Ser. Paper 1490, 3 p. Nov. 19, 1948. 100 P381J

NOLL, C. J., and ODLAND, M. L. Cabbage variety and strain trials, 1948. Pa. Agr. Expt. Sta. J. Ser. Paper 1492, 4 p. Nov. 22, 1948. 100 P381J

#### South Carolina Agricultural Experiment Station, Clemson

LEE, A. T. M., and AULL, G. H. Land use and soil conservation in the Broad River Soil Conservation District of South Carolina. S. C. Agr. Expt. Sta. B. 373, 68 p. June 1948. 100 So8

#### Tennessee Agricultural Experiment Station, Knoxville

HAZLEWOOD, B. P., and CHAPMAN, E. J. Effects of several winter cover crops on the yield of cotton. Tenn. Agr. Expt. Sta. C. 100, 4 p. Nov. 1948. 100 T25S

#### Texas Agricultural Experiment Station, College Station

MCNEELY, J. G., SCHLOTZHAUER, E. O., and CHILDS, V. C. Texas farm commodity prices. Tex. Agr. Expt. Sta. B. 700, 89 p. July 1948. 100 T31S

BROCK, F. D., and HOLLEMAN, M. P. Commercial feeding stuffs. Tex. Agr. Expt. Sta. B. 703, 150 p. Sept. 1948. 100 T31S

FUDGE, J. F., and OGIER, T. L. Commercial fertilizers in 1947-48. Tex. Agr. Expt. Sta. B. 705, 48 p. Sept. 1948. 100 T31S

YOUNG, V. A., ANDERWALD, F. R., and McCULLY, W. G. Brush problems on Texas Ranges. Tex. Agr. Expt. Sta. Misc. P. 21, 19 p. Oct. 1948. 100 T31M

COVER, S., and others. Safe method for canning blackeye peas at home. Tex. Agr. Expt. Sta. Prog. Rpt. 1142, 2 p. Dec. 23, 1948. 100 T31P

A. B. Smith, M. P. Shepperd, and E. G. Crawford, joint authors.

DENMAN, T. E. Peach varieties for the West Cross Timbers. Tex. Agr. Expt. Sta. Prog. Rpt. 1143, 2 p. Dec. 1948. 100 T31P

WYCHE, R. H., CHEANEY, R. L., and TURNER, W. F. Fertilizer requirements for rice of the Gulf Coast Prairie of Texas, 1947-48. Tex. Agr. Expt. Sta. Prog. Rpt. 1144, 7 p. Jan. 6, 1949. 100 T31P

#### Utah Agricultural Experiment Station, Logan

MORRISON, E. M. Costs and returns from peach production, selected areas, Utah, 1947. Utah. Agr. Expt. Sta. B. 334, 28 p. Oct. 1948. 100 Ut1

REEVE, R. C., ALLISON, L. E., and PETERSON, O. F., JR. Reclamation of saline-alkali soils by leaching, Delta area, Utah. Utah. Agr. Expt. Sta. B. 335, 52 p. Dec. 1948. 100 Ut1

U. S. Regional Salinity and Rubidoux Laboratories cooperating.

UTAH AGRICULTURAL EXPERIMENT STATION. Biennial report, 1946 - 1948. Utah. Agr. Expt. Sta. B. 336, 50 p. Jan. 1949. 100 Ut1

#### Vermont Agricultural Experiment Station, Burlington

ADAMS, T. M. Vermont cooperatives; their business activities. Vt. Agr. Expt. Sta. B. 540, 27 p. Jan. 1948. 100 V59

#### Virginia Agricultural Experiment Station, Blacksburg

GARNETT, W. E. Farm housing in Virginia. Va. Agr. Expt. Sta. B. 417, 34 p. Oct. 1948. 100 V81S

DAVIS, L. L., and RODGERS, P. D. Planning a frozen food business. Va. Agr. Expt. Sta. B. 419, 17 p. Oct. 1948. 100 V81S

Tennessee Valley Authority cooperating.

#### Washington Agricultural Experiment Station, Pullman

BAUR, K., and TREMBLAY, F. T. Commercial fertilizers for canning and freezing peas in western Washington. Wash. Agr. Expt. Sta. B. 503, 19 p. Ref. July 1948. 100 W27E

MOODIE, C. D. Inoculants for legumes. Wash. Agr. Expt. Sta. Pop. B. 191, 11 p. Sept. 1948. 100 W27E

#### Wisconsin Agricultural Experiment Station, Madison

MACLEOD, A. What makes the market for dairy products? Wis. Agr. Expt. Sta. B. 477, 59 p. Sept. 1948. 100 W75

#### Wyoming Agricultural Experiment Station, Laramie

KLINGMAN, D. Plant these oat and barley varieties in Wyoming. Wyo. Agr. Expt. Sta. C. 32, 4 p. folder. Mar. 1948. 100 W99

DENNING, D. G. The crested wheat bug [Labops hesperius]. Wyo. Agr. Expt. Sta. C. 33, 2 p. May 1948. 100 W99

WYOMING AGRICULTURAL EXPERIMENT STATION. Forage plants for Wyoming range. Wyo. Agr. Expt. Sta. C. 35, 4 p. Dec. 1948. 100 W99

WYOMING AGRICULTURAL EXPERIMENT STATION. Fifty eighth annual report, 1947/48. Laramie, 1948. 64 p. 100 W99



STATE AGRICULTURAL EXTENSION SERVICE  
PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Alabama Polytechnic Institute, Agricultural Extension Service, Auburn

ALABAMA. POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION SERV. Junior girls' 4-H handbook. Ala. Polytech. Inst. Agr. Ext. C. 339, 72 p. Nov. 1947. 275.29 AL1C

ALABAMA. POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION SERV. What is a good egg? Ala. Polytech. Inst. Agr. Ext. C. 353, 4 p. July 1947. 275.29 AL1C

ISBELL, C. L. Tested recipes for the use of Alagold pumpkin. Ala. Polytech. Inst. Agr. Ext. C. 354, 4 p. Sept. 1947. 275.29 AL1C

MAJORS, E. Family religion. Ala. Polytech. Inst. Agr. Ext. C. 355, 15 p. Ref. Oct. 1947. 275.29 AL1C

MITCHELL, S. Cooking utensils. Ala. Polytech. Inst. Agr. Ext. C. 358, 8 p. Dec. 1947. 275.29 AL1C

MITCHELL, S. Refrigerators; selection, use, care. Ala. Polytech. Inst. Agr. Ext. C. 359, 4 p. Dec. 1947. 275.29 AL1C

MITCHELL, S. The kitchen range. Ala. Polytech. Inst. Agr. Ext. C. 360, 4 p. Dec. 1947. 275.29 AL1C

PEAVY, A. Wiring lamps. Ala. Polytech. Inst. Agr. Ext. C. 361, 8 p. Dec. 1947. 275.29 AL1C

IVEY, J. E. Broilers, another source of farm cash income. Ala. Polytech. Inst. Agr. Ext. C. 362, 4 p. Feb. 1948. 275.29 AL1C

BROWN, L. Pecan rosette. Ala. Polytech. Inst. Agr. Ext. C. 364, 4 p. Nov. 1948. 275.29 AL1C

CURTIS, L. Freezing cooked foods. Ala. Polytech. Inst. Agr. Ext. C. 365, rev., 8 p. Dec. 1948. 275.29 AL1C

CURTIS, L. The pantry on parade. Ala. Polytech. Inst. Agr. Ext. C. 366, 4 p. Dec. 1948. 275.29 AL1C

Arkansas University, College of Agriculture, Agricultural Extension Service, Little Rock

ARKANSAS. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. For abundant living; 1948 annual report, Extension Service. Ark. Agr. Col. Ext. C. 462, 27 p. Dec. 1948. 275.29 Ar4

ARKANSAS COUNCIL OF HOME DEMONSTRATION CLUBS. Proceedings of the twentieth annual meeting at University of Arkansas, Sept. 7-10, 1948. Fayetteville? Ark. Agr. Col. Ext., 1948. 70 p. 275.29 Ar412P

California University, College of Agriculture, Agricultural Extension Service, Berkeley

FAUST, H., and MRAK, V. G. What about fish? Selection, food value and basic cooking methods. Calif. Agr. Col. Ext. C. 144, 12 p. Nov. 1948. 275.29 C12C

MICHELbacher, A. E., and ESSIG, E. O. Ridding the garden of common pests. Calif. Agr. Col. Ext. C. 146, 39 p. Oct. 1948. 275.29 C12C

BUTTERFIELD, H. M. Rose culture in California. Calif. Agr. Col. Ext. C. 148, 39 p. Nov. 1948. 275.29 C12C

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Freezing poultry for home use, by V. G. Mrak and G. F. Stewart. Berkeley, 1948. 2 p. 275.29 C122

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1948 sugar beet production; cost analysis, Imperial County. Berkeley, 1948. 5 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 citrus production cost study; lemons & grapefruit, San Bernardino County. Berkeley, 1948? 12 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 lemon management study, Los Angeles County. Berkeley? 1948? 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 Valencia orange management study, Los Angeles County. Berkeley? 1948? 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Red kidney bean cost and management study, San Joaquin County, 1947. Berkeley, 1948? 7 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Solano County Bartlett pear management study, 1948. Berkeley, 1948? 7 p. 275.29 C12En

Colorado State College of Agriculture, Extension Service, Fort Collins

ROBERTSON, D. W., WEIHING, R. M., and TUCKER, R. H. Pasture and forage crops for irrigated areas in Colorado. Colo. Agr. Col. Ext. B. 403-A, 46 p. Aug. 1948. 275.29 C71E

Connecticut University, College of Agriculture, Agricultural Extension Service, Storrs

NODINE, E. H., BOICOURT, A. W., and BERGSTROM, E. E. Is your house happy; 4-H home grounds improvement. Conn. Agr. Col. Ext. B. 408, 16 p. Sept. 1948. 275.29 C76B

FENTON, R. H., and CALLWARD, F. M. Home-grown Christmas trees for Connecticut. Conn. Agr. Col. Ext. B. 409, 16 p. Oct. 1948. 275.29 C76B

Hawaii University, Agricultural Extension Service, Honolulu

BEMBOWER, W. Lawns for Hawaii. Hawaii. U. Agr. Ext. C. 255, 8 p. Oct. 1948. 275.29 H412Ac

PHILIPP, P. F. Egg-feed price ratios. Hawaii. U. Agr. Ext. C. 257, 8 p. Nov. 1948. 275.29 H412Ac

VOLLRATH, H. V. Better [dairy] calves from extra colostrum milk. Hawaii. U. Agr. Ext. C. 258, 2 p. Nov. 1948. 275.29 H412Ac

ISHIDA, J. 1949 [income] tax guide for Hawaiian farmers. Hawaii. U. Agr. Ext. C. 259, 25 p. Nov. 1948. 275.29 H412Ac

NELSON, R. N. Low cost meals with high appeal. Hawaii. U. Agr. Ext. Home Econ. C. 225-A, 2 p. Oct. 1948. 275.29 H312H

NELSON, R. N. Party suggestions. Hawaii. U. Agr. Ext. Home Econ. C. 226, 4 p. Nov. 1948. 275.29 H312H

FEAGIN, G. Metal craft. Hawaii. U. Agr. Ext. Home Econ. C. 239, 8 p. Aug. 1948. 275.29 H312H

Idaho University, College of Agriculture, Extension Service, Moscow

BROWN, O. K., and ANDERSON, G. C. Idaho dairy barn and milkhous requirements for graded milk production. Idaho. Agr. Col. Ext. C. 104, 4 p. Oct. 1948. 275.29 Id13C

KNIGHT, W. H. The electrified farm shop. Idaho. Agr. Col. Ext. Farm Electrification Leaflet 1, 4 p. Jan. 15, 1948. 275.29 Id13Fa

BREVICK, H. L., KNIGHT, W. H., and BOYD, J. C. Milk cooling on Idaho farms. Idaho. Agr. Col. Ext. Farm Electrification Leaflet 2, 4 p. May 15, 1948. 275.29 Id13Fa

KNIGHT, W. H., and MARTIN, J. W. Farm freezers. Idaho. Agr. Col. Ext. Farm Electrification Leaflet 3, 4 p. July 15, 1948. 275.29 Id13Fa



Illinois University, College of Agriculture, Extension Service, Urbana

CARTER, D. G. Remodeling general-purpose barns. Ill. Agr. Col. Ext. AEng 501, 18 p. Aug. 16, 1948. 275.29 IL62Pa

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Instructions for sampling hay and recording data in the project on the nutritive value of barn-cured hay. Ill. Agr. Col. Ext. AEng 576a, 3 p. July 26, 1948. 275.29 IL62Pa

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Barn ventilation project; preliminary information sheet. Ill. Agr. Col. Ext. AEng 579, 1 p. Aug. 16, 1948. 275.29 IL62Pa

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Extension agricultural engineering activities. Ill. Agr. Col. Ext. AEng 581, 31 p. Oct. 4, 1948. 275.29 IL62Pa

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Temporary listing of farm building plans. Ill. Agr. Col. Ext. AEng 586, 4 p. Nov. 15, 1948. 275.29 IL62Pa

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Suggestions for farmhouse remodeling. Ill. Agr. Col. Ext. AEng 590, 4 p. Dec. 30, 1948. 275.29 IL62Pa

NORTON, L. J., HATHORN, S., JR., and BROADBENT, E. Grading will improve the market for Illinois eggs. Ill. Agr. Col. Ext. C. 631, 12 p. Oct. 1948. 275.29 IL62C

HANNAH, H. W. Law for the Illinois farmer. Ill. Agr. Col. Ext. C. 632, 80 p. Nov. 1948. 275.29 IL62C

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 1949 outlook for farm and home. Ill. Agr. Col. Ext. C. 635, 8 p. Jan. 1949. 275.29 IL62C

Kansas State College of Agriculture and Applied Science, Extension Service, Manhattan

STOVER, H. E. Cost of operation of electrical equipment on the farm. Kans. State Col. Agr. Ext. Rural Electrification, 4 p. Mar. 1, 1948. 275.29 K13En

STOVER, H. E. Farm water supply. Kans. State Col. Agr. Ext. Rural Electrification, 4, 8 p. June 1948. 275.29 K13En

STOVER, H. E. Filters and softeners for farm water supply. Kans. State Col. Agr. Ext. Rural Electrification, 5, 4 p. June 1948. 275.29 K13En

STOVER, H. E. Water pumping systems for the farm. Kans. State Col. Agr. Ext. Rural Electrification, 6, 12 p. June 1948. 275.29 K13En

STOVER, H. E. The home frozen food storage locker. Kans. State Col. Agr. Ext. Rural Electrification, 7, 4 p. June 1, 1948. 275.29 K13En

Kentucky University, College of Agriculture and Home Economics, Extension Service, Lexington

GARDNER, J. S. Your vegetable garden month by month. Ky. Agr. Col. Ext. C. 376, rev., 31 p. Jan. 1948. 275.29 D415

KENTUCKY. UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. AGRICULTURAL ENGINEERING SECT. Farm building plans. Ky. Agr. Col. Ext. C. 397, rev., 24 p. Feb. 1948. 275.29 D415

NORTH CENTRAL FARM MANAGEMENT EXTENSION COMMITTEE. The farmer's 1948 income tax. Ky. Agr. Col. Ext. C. 461, 16 p. 1948? 275.29 K415

KENTUCKY. UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. The agricultural outlook for Kentucky, 1949. Lexington, 1948. 20 p. 275.29 K415A

KENTUCKY. UNIVERSITY. COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Poultry calendar, by C. E. Harris. Lexington? 1948. 47 p. 275.29 K415Po

Louisiana State University and Agricultural and Mechanical College, Division of Agricultural Extension, University Station, Baton Rouge

FOURNET, E. Jellies, jams, preserves. La. Agr. Col. Ext. B. 12, 31 p. Nov. 1948. 275.29 L93B4

WASSON, R. A., and CARSON, I. W. Louisiana cotton. La. Agr. Col. Ext. B. 14, 32 p. Oct. 1948. 275.29 L93B4

WASSON, R. A., and KILLGORE, A. G. Louisiana corn. La. Agr. Col. Ext. C. 161, 16 p. Sept. 1948. 275.29 L93C

WASSON, R. A., and FITZGERALD, A. D. Hogging-off corn and soybeans. La. Agr. Col. Ext. Leaflet 21, 4 p. 1948? 275.29 L93EL

Maine University, College of Agriculture, Agricultural Extension Service, Orono

MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Annual report, 1947/48. Maine. Agr. Col. Ext. B. 383, 48 p. Aug. 1948. 275.29 M281B

LEWIS, A. B. Modernization of world agriculture. Maine. Agr. Col. Ext. B. 384, 18 p. Sept. 1948. 275.29 M281B

BRIWA, K. Good recipes for Maine potatoes. Maine. Agr. Col. Ext. B. 386, 12 p. Sept. 1948. 275.29 M281B

ROBINSON, C. B. Color in the home. Maine. Agr. Col. Ext. B. 387, 31 p. Nov. 1948. 275.29 M281B

BRIWA, K. E. New ways to make a cake. Maine. Agr. Col. Ext. B. 388, 12 p. 1948? 275.29 M281B

MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Report, 1947/48. Orono? 1948? 45 p. 275.29 M281Rt

Maryland University, Colleges of Agriculture and Home Economics, Extension Service, College Park

BEAL, G. M. Farm property ownership and disposition of estates in Maryland. Md. Agr. Col. Ext. B. 121, 20 p. Sept. 1948. 275.29 M36B

Michigan State College of Agriculture and Applied Science Extension Division, East Lansing

HEDGECOCK, L. D., and FITCH, W. J. Which hearing aid shall I buy? Mich. State Col. Agr. Ext. B. 290, 22 p. 1948? 275.29 M58B

HORWOOD, R. E., SNIDER, W. W., and WEAVER, E. Good milking practices. Mich. State Col. Agr. Ext. B. 293, 19 p. 1948? 275.29 M58B

SPONBERG, H. The meeting will come to order. Mich. State Col. Agr. Ext. B. 294, 23 p. 1948? 275.29 M58B

PECK, R. J., and MARION, J. E. Refinishing furniture: natural finishes. Mich. State Col. Agr. Ext. B. 295, 20 p. 1948? 275.29 M58B

ROBINSON, C. B. Color in the home. Mich. State Col. Agr. Ext. B. 296, 31 p. 1948? 275.29 M58B

Minnesota University, Department of Agriculture, Division of Agricultural Extension, University Farm, St. Paul

HAYDAK, M. H. Beekeeping in Minnesota; directions for colony management through the year. Minn. U. Agr. Ext. B. 204, rev., 37 p. June 1948. 275.29 M66S

SNYDER, L. C., and others. Evergreens. Minn. U. Agr. Ext. B. 258, 28 p. June 1948. 275.29 M66S

R. J. Wood, C. M. Christensen, and A. C. Hodson, joint authors.

MORRIS, W. E., and ZAVORAL, H. G. Live-stock weights from measurements. Minn. U. Agr. Ext. Folder 70, rev., 6 p. June 1948. 275.29 M66Ex

MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. Pasteurizing milk at home. Minn. U. Agr. Ext. Folder 133, 4 p. May 1948. 275.29 M66Ex



ENGINE, S. A., PETERSEN, W. E., and OTIS, C. K. Loose housing for dairy cattle. Minn. U. Agr. Ext. Folder 146, 12 p. June 1948. 275.29 M66Ex

MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. Round top brooder house with sun porch. Minn. U. Agr. Ext. Pam. 40, rev., 6 p. May 1948. 275.29 M66P

MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. Best buys in fruits and vegetables. Minn. U. Agr. Ext. Pam. 97, rev., 4 p. May 1948. 275.29 M66P

SNYDER, L. C., and ROSE, R. C. Vegetable plant growing reminders. Minn. U. Agr. Ext. Pam. 146, rev., 5 p. June 1948. 275.29 M66P

CLELAND, S. B. 1949 outlook; livestock and feed. Minn. U. Agr. Ext. Pam. 162, 6 p. Dec. 1948. 275.29 M66P

HINDS, M. K., and DANKERS, W. H. 1949 outlook; dairy products, eggs and poultry. Minn. U. Agr. Ext. Pam. 163, 8 p. Dec. 1948. 275.29 M66P

DVORACEK, D. C. 1949 outlook; Agricultural Act of 1948. Minn. U. Agr. Ext. Pam. 164, 6 p. Dec. 1948. 275.29 M66P

CLELAND, S. B. 1949 general outlook for agriculture. Minn. U. Agr. Ext. Pam. 165, 6 p. Dec. 1948. 275.29 M66P

MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. 1949 outlook; family living. Minn. U. Agr. Ext. Pam. 166, 6 p. 275.29 M66P

CALDWELL, A. C. Fertilizer trials in Mower County, 1947. Minn. U. Agr. Ext. Soil Ser. 23, 7 p. Mar. 1948. 275.29 M66So

MACGREGOR, J. M., and KINSEY, C., JR. Fertilizer trials on oats grown on milaca very fine sandy loam in Pine, Kanabec and Mille Lacs Counties, Minnesota, 1947. Minn. U. Agr. Ext. Soil Ser. 24, 9 p. Apr. 1948. 275.29 M66So

MINNESOTA. UNIVERSITY. DEPT. OF AGRICULTURE. DIV. OF AGRICULTURAL EXTENSION. A career for you in home demonstration. St. Paul, 1948. 8 p.-folder. 275.2 M66Ca

Missouri University, College of Agriculture, Agricultural Extension Service, Columbia

FITZGERALD, M., and WOODRUFF, L. Re-finishing furniture. Mo. Agr. Col. Ext. C. 564, 14 p. Aug. 1948. 275.29 M69C  
Revision of Circular 492.

Nebraska University, College of Agriculture, Agricultural Extension Service, Lincoln

DEROSE, R. L. Electrical consumption and operation cost for farm and home equipment. Nebr. Agr. Col. Ext. Agr. Engin. Rural Electr. 1, 4 p. Oct. 1948. 275.29 N272Ag

BENTON, R. A. Baby chicks—start them right. Nebr. Agr. Col. Ext. C. 1492, 12 p. Oct. 1948. 275.29 N272Ex

GOBLE, J. W. Artificial lights for laying hens. Nebr. Agr. Col. Ext. E.C.1442, 2 p. Dec. 1948. 275.29 N272Ex

NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Commercial broiler production in Nebraska, a supplement to E.C.1492 by J. H. Claybaugh. Nebr. Agr. Col. Ext. E.C.1493, 4 p. Jan. 1949. 275.29 N272Ex

NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. How to judge values of baby chicks. Nebr. Agr. Col. Ext. E.C.1494, 2 p. Jan. 1949. 275.29 N272Ex

NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Improve market poultry. Nebr. Agr. Col. Ext. E.C. 1495, 1 p. Jan. 1949. 275.29 N272Ex

LOMAX, J. W. Household pest control chart. Nebr. Agr. Col. Ext. E.C.1553, 1 p. Dec. 1948. 275.29 N272Ex

New Hampshire University, College of Agriculture and the Mechanic Arts, Extension Service, Durham

NEW HAMPSHIRE. UNIVERSITY. COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS. EXTENSION SERV. The farmer's 1948 income tax. N. H. Agr. Col. Ext. B. 89, 16 p. Oct. 1948. 275.29 N45

New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

NEW YORK. STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. 1949 New York State agricultural outlook. N. Y. Agr. Col. Cornell Ext. B. 758, 16 p. Dec. 1948. 275.29 N48E

COMSTOCK, R. B. Make your own chair covers. N. Y. Agr. Col. Cornell Misc. B. 7, 35 p. Oct. 1948. 275.29 N48Cm

PALMER, E. L. Lawn laboratories. N. Y. Agr. Col. Ext. Cornell Rural School Leaflet 42(2), 32 p. Fall 1948. 275.29 N48R

North Carolina University, State College of Agriculture and Engineering, Extension Service, State College Station, Raleigh

PARRISH, C. F. Chick raising and range management. N. C. Agr. Col. Ext. C. 251, rev., 14 p. Nov. 1948. 275.29 N811

ELLIS, H. M., and WEAVER, J. W., JR. Drying crops with a flue tobacco barn. N. C. Agr. Col. Ext. C. 328, 8 p. Oct. 1948. 275.29 N811

DOGGETT, J. F., and COPLEY, T. L. Laying off rows by the string method. N. C. Agr. Col. Ext. C. 329, 11 p. Oct. 1948. 275.29 N811

Oklahoma Agricultural and Mechanical College, Extension Division, Stillwater

BOEHR, J. W. 4-H dairy management. Okla. Agr. Col. Ext. C. 173, 39 p. 1948? 275.29 Ok41C

CHAFFIN, J. W. Sorghums for grain and forage. Okla. Agr. Col. Ext. C. 478, 22 p. 1948? 275.29 Ok41C

PHAGAN, C. V., and MCDUFFIE, V. A. Plans for Oklahoma farm homes. Okla. Agr. Col. Ext. C. 481, 31 p. 275.29 Ok41C

KYD, S. Controlling sheep parasites. Okla. Agr. Col. Ext. C. 492, 4 p. 1948? 275.29 Ok41C

Oregon State College, Federal Cooperative Extension Service, Corvallis

FISCHER, C. M., and DELOACH, D. B. Consumer response to the marketing of cut-up turkey. Oreg. State Col. Ext. B. 457, 32 p. Aug. 1948. 275.29 Or32B

BLACK, B. E. Oregon's farm forest products, 1946. Oreg. State Col. Ext. B. 691, 8 p. July 1948. 275.29 Or32B

COYLE, B. W., and HORRELL, E. Oregon's grain and hay crops, 1909-1947. Oreg. State Col. Ext. B. 692, 61 p. Aug. 1948. 275.29 Or32B

WARREN, R., and FREED, V. Russian knapweed [Russian centaurea]. Oreg. State Col. Ext. B. 693, 4 p. Nov. 1948. 275.29 Or32B

OREGON. STATE COLLEGE. FEDERAL CO-OPERATIVE EXTENSION SERV. Oregon farms, an \$850,000,000 plant. Oreg. State Col. Ext. C. 524, 16 p. Oct. 1948. 275.29 Or32C

FREED, V. H., WARREN, R., and CLARK, R. R. Preliminary information on chemical weed control in strawberries. Oreg. State Col. Ext. C. 526, 3 p. Jan. 1949. 275.29 Or32C

Pennsylvania State College, Agricultural Extension Service, State College

BITTNER, C. S. Profitable red raspberry production in Pennsylvania; culture—insect and disease control. Pa. State Col. Agr. Ext. C. 319, 13 p. June 1948. 275.29 P38C



BENTLEY, F. L., and BURGE, C. A. Buying and feeding cattle. Pa. State Col. Agr. Ext. C. 321, 12 p. Nov. 1948. 275.29 P38C

Texas Agricultural and Mechanical College, Agricultural Extension Service, College Station

MASON, L. How to plan three meals a day. Tex. Agr. Col. Ext. C. 251, 8 p. Aug. 1948. 275.29 T312C

LOW, F. W., DARDEN, G., and ALLEN, W. S. Hanging out the wash. Tex. Agr. Col. Ext. Leaflet L-83, 4 p. Sept. 1948. 275.29 T313

BANKS, W. C., and REGENBRECHT, E. M. The use of sodium fluoride for worming hogs. Tex. Agr. Col. Ext. Leaflet L-84, 4 p. Sept. 1948. 275.29 T313

Washington State College, Extension Service, Pullman

WASHINGTON. STATE COLLEGE. EXTENSION SERV. From freezer to table. Wash. State Col. Ext. B. 380, 12 p. Nov. 1948. 275.29 W27P

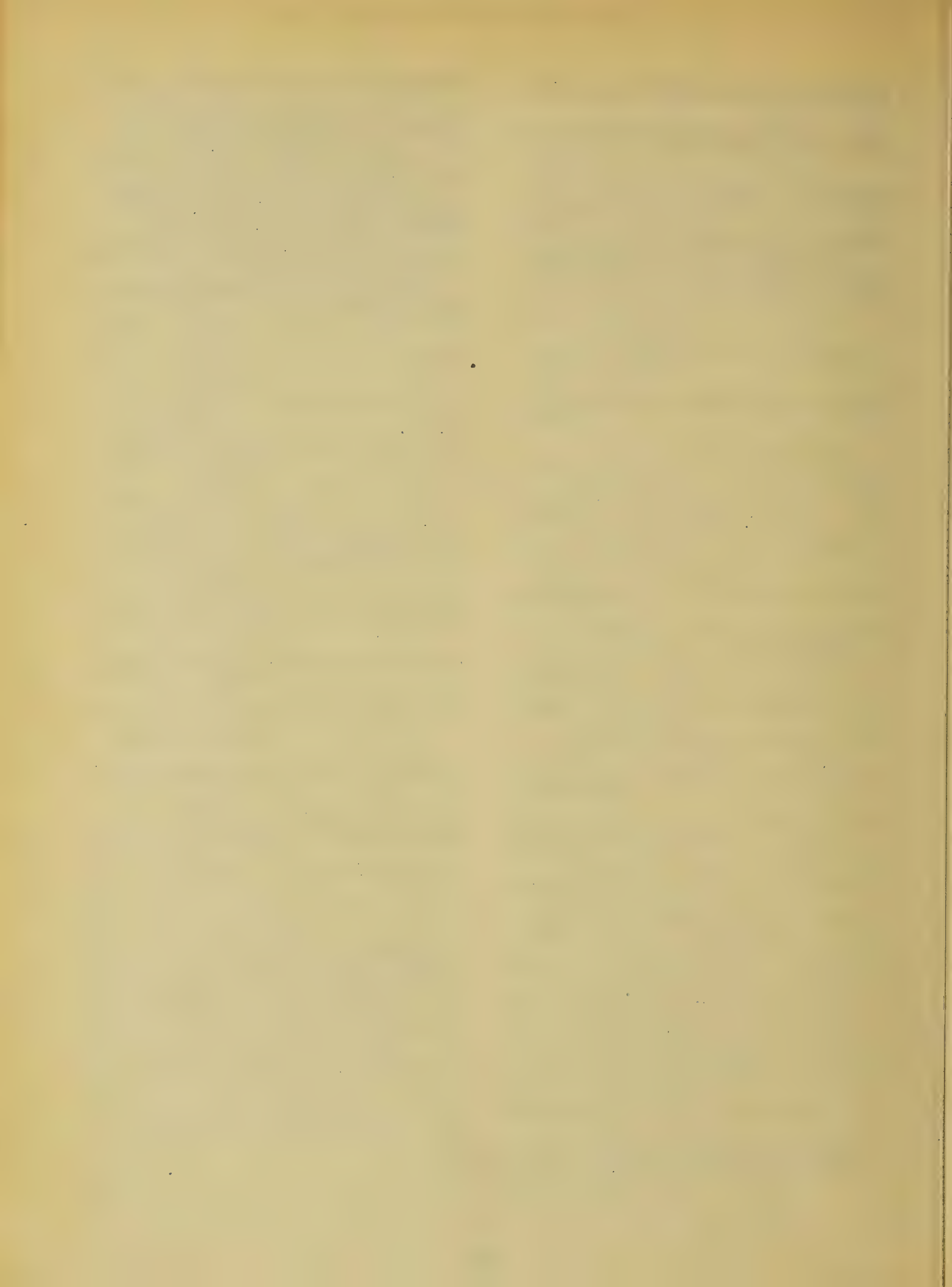
SNYDER, J. C., and LUCE, W. A. Pruning apple and pear trees. Wash. State Col. Ext. B. 381, 52 p. Jan. 1949. 275.29 W27P

WASHINGTON. STATE COLLEGE. EXTENSION SERV. On the road to quality foods via canning and freezing fruit and vegetables. Wash. State Col. Ext. C. 126, 12 p.-folder. Oct. 1948. 275.29 W27C

HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 127, 6 p.-folder. Nov. 19, 1948. 275.29 W27C

HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 128, 6 p.-folder. Dec. 24, 1948. 275.29 W99C







ITEM	ITEM	ITEM	ITEM				
AABY ERICSSON A	32359	ALLWOOD M C	25144	ARAUJO R L	29068	AUSTRALIA COUNCIL FOR SCI	ITEM
AABEN S J	29611	ALMEIDA D	31478	ARBUCLE W S	30326	AND INDUS RES	
AABAZA O	30454	ALMOND DE M E	27823	ARBUCLE W S	30327	DIV OF FOREST PROD	26456
AABBOTT D	25141	ALPATOV V V	25513	ARCANGELI G	23592		
AABBOTT H G	26699	ALSTON J T	28032	ARCHILLA GUZMAN M DE C		DIV OF FOREST PROD	26457
ABDEL SALAM M M	32607	ALSTRAND U V	29867	AREBA BLANCO J DE	31414	DIV OF FOREST PROD	26492
ABDEKHALDEN E	26776	ALTMARANO A V	23811	ARENS K	27728	DIV OF FOREST PROD	26502
ABDUSSALAM M	28030	ALTHAUS H C	23591	ARENIZ R	24173	DIV OF FOREST PROD	26511
ABERDEEN J E C	24075	ALTHOUSE S L	31250	AREBE F	25824	DIV OF FOREST PROD	26512
ABERDEEN J E C	24098	ALTHROGGE L	30867	ARGENTINA DIR DE AGR	31602	DIV OF FOREST PROD	26528
ABERDEEN ANGUS	26950	ALUMINUM WARES ASSOC		DIV DE PLANTAS TEXTILES		DIV OF FOREST PROD	26544
ABERG E	24617			24680		DIV OF FOREST PROD	26525
ABERT	25580	ALVAHADO C A	28862	ARGENTINA DIR DE		DIV OF FOREST PROD	26535
ABERKHAMSEN M	29438	ALVAHADO E R	29682	ZOOTECNIA	26783	DIV OF FOREST PROD	26587
ABERKHAMSEN M	29406	ALVAHADO V J M	28573	ARGENTINA DIR DE		DIV OF FOREST PROD	26624
ABERKHAMSEN M	29866	ALVAREZ CASTHO J M	27986	ZOOTECNIA	26784	DIV OF FOREST PROD	26625
ABERKHAMSEN M	23904	ALVAREZ PIER P	29628	ARGENTINA DIR DE		AUSTRALIAN BROADCASTING	
ABERKHAMSEN M	28827	ALVAREZ Y PEHEZ A	27129	ZOOTECNIA	31101	COMM	32361
ABERKHAMSEN M	27126	ALVIRA ALVIRA T	25732	ARGENTINA DIR DE SERICI			
ABERKHAMSEN M	11792	ALWYN SCHMIDT W	30987	CULTURA	29222		
ABERKHAMSEN M	28031	AMACHE N	27954	ARGENTINA INST DE SANIDAD			
ABERKHAMSEN M	24678	AMERICAN BANKERS ASSOC		VEGETAL	29188		
ABERKHAMSEN M	29474	AMERICAN CRANBERRY	31479	ARGENTINA INST DE SUELOS			
ABERKHAMSEN M	31477	GROWERS ASSOC	25081	Y AGROTECNIA	25790		
ABERKHAMSEN M	26167	AMERICAN FAT SALVAGE	30155	ARGENTINA MIN DE AGR			
ABERKHAMSEN M	30455	ADVERTISING COM	31155	29189			
ABERKHAMSEN M	32121	AMERICAN INST OF FOOD		ARGENTINA SEC DE INDUS Y			
ABERKHAMSEN M	26284	AMERICAN KENNEL CLUB		COM			
ABERKHAMSEN M	27258			DIR DE VITIVINICULTURA			
ABERKHAMSEN M	30985			29990			
ABERKHAMSEN M	31911	AMERICAN PLANNING AND		ARRZ W H	24333		
ABERKHAMSEN M	24874	CIVIC ASSOC	31794	ARK COUNCIL OF HOME DEMON			
ABERKHAMSEN M	26676	AMERICAN POTASH INST		CLUBS	32658		
ABERKHAMSEN M	30316	24331		ARMAND J E			
ABERKHAMSEN M	31517	AMERICAN PUB HEALTH ASSOC		ARMER A	28641	BAALEN T VAN	25638
ABERKHAMSEN M	31965	30181		ARMITAGE E R	24847	BABB MRS E M	25156
ABERKHAMSEN M	32272	AMERICAN VISCOSE CORP		ARMITAGE J A	25722	BABCOCK G E	31158
ABERKHAMSEN M	30422	30457		ARMOUR A L	26348	BACHMAN A	26241
ABERKHAMSEN M	27727	AMERICAN WAREHOUSEMENS		ARMSTRONG D	30460	BACHRACH A	26249
ABERKHAMSEN M	25820	ASSOC	29868	ARMSTRONG G M	25151	BACHSTEZ M	31159
ABERKHAMSEN M	26366	AMERINE M A	29987	ARMSTRONG J B	23908	BACHM E K	27702
ABERKHAMSEN M	24142	AMERSON T	29284	ARMSTRONG J B	26040	BADIA V	32124
ABERKHAMSEN M	28913	AMET E H	27613	ARMSTRONG J B	27825	BADIA V	32362
ABERKHAMSEN M	31154	AMOS A J	30866	ARMSTRONG J B	25335	BADING H	31605
ABERKHAMSEN M	24561	AMSDEN J	27610	ARMSTRONG J K	23908	BAER J B	29752
ABERKHAMSEN M	29065	AMSLER M	25145	ARMABOLDI R	25581	BAGCHEE K D	23911
ABERKHAMSEN M	27821	ANADON PINTO R	26777	ARNOLD C H	23909	BAGE F	29832
ABERKHAMSEN M	32273	ANADON PINTO R	26778	ARNOLD	30638	BAGGE ANDERSEN A B G	
ABERKHAMSEN M	24020	ANANDAN M	24679	ARNOLD E	27523	31352	
ABERKHAMSEN M	27953	ANCESCHI	30424	ARNOLD E H	29397	BAGNALL H S	29231
ABERKHAMSEN M	27968	ANCIZAR E	32069	ARNOLD P T D	31795	BAIER W E	30711
ABERKHAMSEN M	27067	ANCIZAR E	32070	ARNOLD R E	25152	BAILEY C W	31481
ABERKHAMSEN M	30324	ANDALLO G	30458	ARNOLD W A	24423	BAILEY C W	31912
ABERKHAMSEN M	30969	ANDALLO G	30459	ARNOLD FORSTER W	25153	BAILEY F L	26041
ABERKHAMSEN M	31376	ANDALLO G	31599	ARNOLD	24552	BAILEY F L	25461
ABERKHAMSEN M	31174	ANDALLO G	31966	ARNOTT D A	28231	BAILEY I W	23594
ABERKHAMSEN M	2	ANDELSUDVALGET	29751	ARNOTT D A	28642	BAILEY I W	23595
ABERKHAMSEN M	24511	ANDERSEN A M	23907	ARNOULD C	27082	BAILEY J H	29002
ABERKHAMSEN M	30456	ANDERSEN A M	25458	ARNST A	29741	BAILEY J S	27131
ABERKHAMSEN M	29830	ANDERSEN A M	32108	ARKOW G J	28643	BAILEY J W	27132
ABERKHAMSEN M	28228	ANDERSEN A W	24711	ARKOYO R	29991	BAILEY L H	23692
ABERKHAMSEN M	23590	ANDERSON A W	25146	ARKUDA A F DE	24875	BAILEY M	26594
ABERKHAMSEN M	28861	ANDERSON A W	25147	ARLAUD	23593	BAILEY N S	28758
ABERKHAMSEN M	27127	ANDERSON A W	25148	ARTHUR D R	28574	BAILEY N S	29232
ABERKHAMSEN M		ANDERSON B W	31251	ARTHUR H A	29407	BAILEY R	24876
ABERKHAMSEN M		ANDERSON C W	27486	ARTIS W G	30871	BAILEY R	25157
ABERKHAMSEN M		ANDERSON D B	24548	ARTZ L	23691	BAILEY F	25157
ABERKHAMSEN M		ANDERSON D B	24412	ARY A VON	23619	BAIRD C	23813
ABERKHAMSEN M		ANDERSON D M	25149	ASAHINA S	28831	BAINBRIDGE C G	29659
ABERKHAMSEN M		ANDERSON E B	25150	ASAHINA S	29229	BAKALOR S	30182
ABERKHAMSEN M		ANDERSON E B	30282	ASAHINA S	29230	BAKER A D	24157
ABERKHAMSEN M		ANDERSON E C	29988	ASDELL S A	26952	BAKER A O	32534
ABERKHAMSEN M		ANDERSON E E	27824	ASDELL S A	26953	BAKER C	32275
ABERKHAMSEN M		ANDERSON F E	26649	ASENJO C F	24553	BAKER C	26536
ABERKHAMSEN M		ANDERSON G C	25440	ASHBY A W	26954	BAKER G L	30758
ABERKHAMSEN M		ANDERSON H C	31600	ASHBY A W	31603	BAKER J H	29366
ABERKHAMSEN M		ANDERSON H W	24089	ASHPLANT H	29992	BAKER K F	23912
ABERKHAMSEN M		ANDERSON H W	26039	ASHTON G C	27520	BAKER M S	23693
ABERKHAMSEN M		ANDERSON J	28139	ASHTON J	26955	BAKER O E	32081
ABERKHAMSEN M		ANDERSON J O	27770	ASHWORTH U S	30208	BAKER R C	27826
ABERKHAMSEN M		ANDERSON K H	29285	ASOCIACION ALGODONERA		BAKER R E	23913
ABERKHAMSEN M		ANDERSON K H	25823	MEXICANA	24681	BAKER R F	32704
ABERKHAMSEN M		ANDERSON L D	28229	ASOCIACION RURAL DEL		BAKER R J	31252
ABERKHAMSEN M		ANDERSON N B	29524	UHUGUAY	30988	BAKKE D J	31252
ABERKHAMSEN M		ANDERSON O L	24712	ASPREY F	24334	BALASUBRAHMANYAN R	24202
ABERKHAMSEN M		ANDERSON W A	32078	ASSIS F U E P	26956	BALASUBRAHMANYAN R	24202
ABERKHAMSEN M		ANDERSON W A	28640	ASSOCIATION OF N Y STATE		BALAVOINE P	29799
ABERKHAMSEN M		ANDERSON W L	24332	CANNERS	30780	BALDACCIO E	24335
ABERKHAMSEN M		ANDERSON W S	25459	ASSOCIATION OF OFF SEED		BALDACCIO E	26957
ABERKHAMSEN M		ANDERSSON A	27447	ANAL	31351	BALDWIN M I	26650
ABERKHAMSEN M		ANDERSSON N	28389	ASSOCIATION OF SUGAR PROD		BALDWIN J T JR	24203
ABERKHAMSEN M		ANDERWALD F H	25636	OF PUERTO RICO	31377	BALDWIN W F	28759
ABERKHAMSEN M		ANDRADE E DE	29989	ASTBURY W T	30461	BALDWIN W P	28586
ABERKHAMSEN M		ANDREEV P P	26779	ASTRAN H E	24783	BALFOUR BOWNE F	28646
ABERKHAMSEN M		ANDREEVA E D	30840	ATANABU M P	24198	BALFOUR BOWNE J	28646
ABERKHAMSEN M		ANDRES J	26618	ATCHISON J E	26607	BALL C E	25936
ABERKHAMSEN M		ANDRETTA M A V U	28769	ATCHELSON J E	26607	BALL C R	23680
ABERKHAMSEN M		ANDREWS A C	30949	ATHEXTON U O	31604	BALL J G	30463
ABERKHAMSEN M		ANDREWS A P	29429	ATHEXTON L C	25154	BALLARIN O	30328
ABERKHAMSEN M		ANDREWS B N	29534	ATKIN L	29870	BALLENBERG L Y	24948
ABERKHAMSEN M		ANDREWS H W	28756	ATKINS E L J H	28757	BALLETINE L Y	31796
ABERKHAMSEN M		ANDREWS J M	28230	ATKINS F C	23812	BALLESTER R E	25981
ABERKHAMSEN M		ANDREWS L H	26367	ATKINS F C	25460	BALLESTEROS VIGORIA L	
ABERKHAMSEN M		ANDREWS S	31956	ATKINS H J	26122	23595	
ABERKHAMSEN M		ANDREWS W B	26122	ATKINSON F E	33910	BALLU T	29303
ABERKHAMSEN M		ANGLADETTA A	26148	ATKINSON H J	30781	BALLU T	29304
ABERKHAMSEN M		ANGLO PALESTINE BANK		ATKINSON H J	25734	BALOGH J	29190
ABERKHAMSEN M		29941		ATKINSON H E	25892	BALTIMORE AND OHIO	
ABERKHAMSEN M		ANGSTER H C	29665	ATKINSON H E	24100	RAILROAD	
ABERKHAMSEN M		ANGSTRUM C I	27800	ATKINSON H E	26785	TRAFFIC DEPT	31160
ABERKHAMSEN M		ANIC M	26368	ATTOR U J	26168	BALTZER B	30202
ABERKHAMSEN M		ANIC M	26369	ATTOLINI J	31156	BANU P	25825
ABERKHAMSEN M		ANISIMOV N I	31601	AUBANEL G	28915	BANDYOPADHYAY K S	28971
ABERKHAMSEN M		ANSCOMBE F J	28914	AUBEL C E	28176	BANERJEE B N	30441
ABERKHAMSEN M		ANTELVEZ J	26780	AUCHERLONIE L	25524	BANERJI	23597
ABERKHAMSEN M		ANTES P	27931	AUDET L P	25155	BANFIELD G L	29191
ABERKHAMSEN M		ANTONIETTI A	32071	AUDOUIN A	31157	BANG F B	27729
ABERKHAMSEN M		ANTONINI A	27130	AUGUSTE A	25018	BANGA O	24336
ABERKHAMSEN M		ANTRAM C B	29066	AUJAC H	32079	BANGA O	24895
ABERKHAMSEN M		ANTUNES T M	30325	AULL C H	32056	BANGA O	25082
ABERKHAMSEN M		APARICIO SANCHEZ G	28190	AULT C N	28033	BANK OF NEW SO WALES	
ABERKHAMSEN M		APICE W U	26781	AUSTERN H T	29831	26042	
ABERKHAMSEN M		APPEL V O	29869	AUSTERN H T	30782	BANK OF NEW SO WALES	
ABERKHAMSEN M		APPLEBY A	30288	AUSTIN LIA	29997	31482	
ABERKHAMSEN M		ARAN S	26480	AUSTRIA BUN OF CENSUS		BANKOWSKI R A	27220
ABERKHAMSEN M		ARANDA HEREDIA E	24846	AND STATIS	29942	BANKOWSKI R A	27732
ABERKHAMSEN M		ARANO R F	26782	AUSTRIA BUN OF CENSUS		BANKS G H	24824
ABERKHAMSEN M		ARANOVICH C	29067	AND STATIS	30853	BANKS G H	31161
ABERKHAMSEN M		ARANT F S	26130	AUSTRIA BUN OF CENSUS		BANKS L E	27677
ABERKHAMSEN M		ARAUJO J B DE	26130	AND STATIS	32080		



BEAMEN	ITEM	BEAMEN	ITEM	BEAMEN	ITEM	BEAMEN	ITEM
BEAMEN J W L	28917	BANKS N	29234	BENGHEN C V	23699	BLACKWELL M L	27740
BEAMER F H	28918	BANKS W C	28140	BENGHEMAN H F	25084	BLACKWELL M L	27829
BEAMS F N	30322	BANKS W A	25639	BENGHEMAN H F	25084	BLACKWELL M L	27829
BEAN R S	31293	BAQUE Z	31448	BENGSTROM H	25091	BLAIN K G	29192
BEAN R S	24950	BACACCO GANDOLFO A	28235	BENISSO B	31256	BLAIS J H	29192
BEAR E M M	28238	BAKATTE J	29408	BENK W	29683	BLAIZOT P	32537
BEAR F E E	25829	BAMBER G W	28795	BENKELEY M J	23916	BLAKELEY A A	31073
BEAR F E E	25830	BAMBER H G	28916	BENLIN BIOL ZENTRALANST		BLAKELEY H M	27680
BEAR F E E	25831	BAMBER M I	29742	FUR LAND UND FORSTW		BLAKEMORE F	26789
BEAR F E E	25914	BAMBIER G	24337			BLAKEMORE F	28030
BEAR F E E	30704	BAMBIER R	26172	BENLINER J F T	26503	BLAKESLEE A F	24293
BEAR P K	24951	BAMBIER R	25826	BENMAN N B	27311	BLAKESLEE C B	29015
BEARD C N	32044	BACCELO J L	26198	BENMEJO ZUAZUA A	28075	BLAKLEY J C	29791
BEARDSLEE C E	30330	BAKUADA J A	31558	BENNARD E	26963	BLANC G	29736
BEATTIE J H	30717	BAKUIN R	24049	BENNARD P	29833	BLANCHARD J F	30183
BEATY H	29662	BAKEISS G VON	30785	BENNASCONI G	31970	BLANCHARD R A	29074
BEAUDETTE F H	27733	BANGEN J L	26423	BENNAUS A S	27319	BLANCHET J	26051
BEAUDETTE F H	27734	BANGER G L	32676	BENNDT W	25046	BLANCO J L	24292
BEAUGUIEN C	30789	BANGER W R	30786	BENNETT A W	25640	BLANCO LOIZELLIER A	27804
BEATN E S	24620	BAKHOURN E A	30398	BENNETT A W	28394	BLANCO LOIZELLIER A	28034
BECEHRA A M	24952	BAGONI N	24554	BENNETT A W	28528	BLAND D E	26511
BECH P	30639	BARKER J S	30465	BENNIEN G M	26659	BLANES F	26170
BECH P	32363	BARKER A F	30465	BENNIER P E	27616	BLANK L	26900
BECHARD J L	28526	BARKER E M	30284	BENNIS MAURAZO F	32535	BLARINGHEM L	24294
BECHYNE J	28650	BARKER H D	30466	BENNKOPF H	27138	BLASER G	29688
BECHYNE J	28651	BARKLEY F A	23694	BENNSTORF E C	27737	BLASINGAME R U	29306
BECK E W	29071	BARKLEY F A	23695	BENNUTH J VON	23885	BLICKLE A H	23601
BECKER A	29072	BARKLEY F A	23696	BENOLDMEIER R	32458	BLIN H	25086
BECKER A	29072	BARKLEY F A	23696	BENRILL N J	28192	BLIN H	27988
BECKER F J	29612	BARKLOW F D JH	31813	BENRO P P	30086	BLIN H	28035
BECKER H K	29875	BARKLOW F U JH	31850	BENTEL R	29481	BLIN H	28036
BECKER L	29812	BARKLOW F S	27133	BENTHAULT P	31520	BLISS D E	30827
BECKER M G	31111	BARNBEY T	29871	BERTOLINO E	25806	BLISS E D	30827
BECKER M G	32092	BARNBEY R C	23697	BERTONI M S	24682	BLIXIT J	30909
BECKER RICH A	31559	BARNBY T	30787	BERTHAND D	24556	BLICH F A	26459
BECKETT J	26960	BARNES A T	25158	BERTHAND D	24557	BLICH R	31799
BECKETT J	28101	BARNES D F	30827	BERTHAND G	24556	BLICH R	24205
BECKMAN H J	31112	BARNES L L	28760	BERTHAND G	24557	BLIME	27136
BEEDFORD J E	24878	BARNES V J R	27347	BERTHAND W	27357	BLOW G	25462
BEEDJFSCHAP VOOR ZUIV		BARNES MRS W	25159	BERTSCH F	24204	BLOM R H	30923
BEEDJFSCHAP VOOR ZUIV		BARNETT H L	24314	BERTSCH K	23681	BLOMQUIST H L	23700
BEEDJFSCHAP VOOR ZUIV		BARNETT H L	24453	BERTSCH K	26371	BLOMQUIST H L	24369
BEEDJFSCHAP VOOR ZUIV		BARNETT H L	24533	BERTUZZI A	31379	BLOMQUIST H L	25019
BEEDJFSCHAP VOOR ZUIV		BARNETT H L	25982	BERTUZZI A	31379	BLOMQUIST H L	25019
BEEDJFSCHAP VOOR ZUIV		BARNETT H L	31913	BERTUZZI A	31379	BLOMQUIST H L	25019
BEEDJFSCHAP VOOR ZUIV		BARNETT H L	25632	BERTUZZI A	31379	BLOMQUIST H L	25019
BEEDJFSCHAP VOOR ZUIV		BARNETT H L	27583	BERTUZZI A	31379	BLOMQUIST H L	2501







ITEM		ITEM		ITEM		ITEM		
CAPPER A	27686	CEPEDE M	31167	CHRISTIANSEN G S	24360	COLEMAN E	24363	
CAPPER A	27835	CEPPI H G	25649	CHRISTIANSEN J	24887	COLEMAN J D JR	24362	
CAPPER A	27836	CEPPI H G	27957	CHRISTIANSEN N W	32333	COLEMAN J D	25137	
CAPPER A	27837	CEPPI H G	29944	CHRISTIANSEN J R	24160	COLEMAN L C	29196	
CAPSTOCKE	30336	CEPPI H G	32791	CHRISTIE W W	27489	COLEMAN M C	32138	
CANDIA GOMEZ P	27749	CERVA A	31261	CHRISTOPHERSEN R	29945	COLEMAN R	26151	
CARDON P V	31625	CERVI B	25837	CHKOSTOWSKI T	29774	COLEMAN R	26152	
CARDONNE P	28249	CERVI B	32429	CHU C H	30487	COLES R	27688	
CARDONNE P	28250	CESTER B H	25988	CHULSKI K	28253	COLHOUN J	23818	
CARDOSO J C	24241	CEYLON DIR OF IRRIG		CHURCH G L	23706	COLHOUN J	23819	
CARFENA A	29483	CEYLON FOREST CONSERV		CHURY J	24361	COLHOUN J	3937	
CAREY C J	32542			CHWAL BOG J	31792	COLLAD J G	28775	
CARGILL B F	29378	CHADDOCK T T	27360	CHWOJNOWSKI A	27535	COLLADO L	28039	
CARGILL B F	29484	CHADDOCK T T	27467	CIACCIO G	28197	COLLEGE MRS A V N	31404	
CARKIN F	27142	CHADEFAUW M	24210	CICCARONE A	23935	COLLET P	27537	
CARKIZZA H	30337	CHAFFIN J W	24624	CICCARONE A	23935	COLLETTE J P E	30492	
CARLBERG G M	31805	CHAIKOFF I B	31168	CICCARONE A	23936	COLLIER D	25793	
CARLETTO G M	24209	CHAKRAVARTI M D	30486	CICCARONE A	26709	COLLIN J E	28776	
CARLINER L A	30097	CHAKRAVARTI H	25650	CICCARONE A	30185	COLLINS J C	31169	
CARLO B	26680	CHAKRAVARTI S C	24357	CICCARONE A	32109	COLLISSON C F	31514	
CARLONE H	28929	CHALLERVOUD E	25737	CICCARONE A	23817	COLLMAN H J	25588	
CARLSON F W	28579	CHALLEY C J	31002	CICCARONE A	27750	COLM U E	31318	
CARNACROSS J W	30645	CHALMERS K W	26555	CICCARONE A	27677	COLMBAW N G	31384	
CARNES N K	31000	CHAMBERLAIN H V	26799	CICCARONE A	25471	COLSON M	31385	
CAROL J	27795	CHAMBERLAIN H J	26460	CICCARONE A	24625	COMANDINI G	28143	
CAROLA J	24717	CHAMBERLAIN T R	28931	CICCARONE A	26150	COMBAL H	29313	
CAROLAN H J	25736	CHAMBERLAIN M M	32279	CICCARONE A	25195	COMBES L	26711	
CAROSELLI N F	23951	CHAMBERLAIN T B	26056	CICCARONE A	32281	COMBES W A	29398	
CARPENTER C D	31260	CHAMBERLAIN M M	26056	CICCARONE A	31431	COMI L	27752	
CARPENTER F H	31806	CHAMBERLAIN M M	26056	CICCARONE A	27697	COMIN D	26173	
CARPENTIERI F	32371	CHAMBERLAIN M M	26056	CICCARONE A	29083	COMMITTEE OF EUROPEAN		
CARR MRS H B	28407	CHAMBERLAIN M M	26056	CICCARONE A	31083	ECON COOP	29688	
CARRERA E	31976	CHAMBERLAIN M M	26056	CICCARONE A	24366	COMMON F B	29087	
CARRERA C	29928	CHAMBERLAIN M M	26056	CICCARONE A	24366	COMMONER B	24110	
CARRERA M	28769	CHAMBERLAIN M M	26056	CICCARONE A	31417	COMMONER B	24562	
CARRERA M	28770	CHAMBERLAIN M M	26056	CICCARONE A	32282	CONRIE A	30446	
CARRERA M	28771	CHAMBERLAIN M M	26056	CICCARONE A	28000	CONSTOCK R B	32659	
CARRERA M	28772	CHAMBERLAIN M M	26056	CICCARONE A	23762	CONARD W K	26288	
CARRERAS PALET J	30485	CHAMBERLAIN M M	26056	CICCARONE A	23763	CONCHA VENEGAS J A	28254	
CARRICK C W	27693	CHAMBERLAIN M M	26056	CICCARONE A	23912	CONFERENCE OF NORTH		
CARRICK C W	27712	CHAMBERLAIN M M	26056	CICCARONE A	24211	EASTERN EXT HORT	32139	
CARRILLO R L	31807	CHAMBERLAIN M M	26056	CICCARONE A	30883	CONGE L	28411	
CARRROLL W E	26903	CHAMBERLAIN M M	26056	CICCARONE A	25607	CONGER A D	24364	
CARRUTHERS J F S	26627	CHAMBERLAIN M M	26056	CICCARONE A	25840	CONGRES INTERNATL DES		
CAKSON H L S	28850	CHAMBERLAIN M M	26056	CICCARONE A	30970	INDUS DE FERMENTATION		
CAKSON I W	24708	CHAMBERLAIN M M	26056	CICCARONE A	25654	29880		
CARTER D G	29541	CHAMBERLAIN M M	26056	CICCARONE A	24302	CONGRES INTERNATL DES		
CARTER H F	28869	CHAMBERLAIN M M	26056	CICCARONE A	27584	PHOU DE JUS DE FRUITS		
CARTER J	28408	CHAMBERLAIN M M	26056	CICCARONE A	27736	30647		
CARTER J	31977	CHAMBERLAIN M M	26056	CICCARONE A	30287	CONGRES INTERNATL DU RAIS		
CARTER J C	23929	CHAMBERLAIN M M	26056	CICCARONE A	27145	IN DU JUS DE RAISIN ET		
CARTER P W	24560	CHAMBERLAIN M M	26056	CICCARONE A	28409	DU VIN	25089	
CARTER R M	26538	CHAMBERLAIN M M	26056	CICCARONE A	30971	CONGRES SINDICAL DE LA		
CAKTRWRIGHT G E	28174	CHAMBERLAIN M M	26056	CICCARONE A	30972	TIERH	31629	
CAKUGH I U S	31924	CHAMBERLAIN M M	26056	CICCARONE A	29239	CONKLIN H E	32046	
CAKUSO S A	25467	CHAMBERLAIN M M	26056	CICCARONE A	29239	CONKLIN H E	32047	
CARVAJALINO JACOME L J		CHAMBERLAIN M M	26056	CICCARONE A	27884	CONLEY H L	30648	
CARVAJALINO JACOME L J	24726	CHAMBERLAIN M M	26056	CICCARONE A	32465	CONN DEPT OF FARMS AND		
CARVAJALINO JACOME L J	24727	CHAMBERLAIN M M	26056	CICCARONE A	24133	MKTS	29946	
CARVALHO D DE	31001	CHAMBERLAIN M M	26056	CICCARONE A	26107	CONN DEPT OF FARMS AND		
CARVALHO J J M	28930	CHAMBERLAIN M M	26056	CICCARONE A	24848	MKTS	30855	
CARVALHO J J M	28930	CHAMBERLAIN M M	26056	CICCARONE A	32374	CONNELLY R G	30100	
CAKVER S R	29998	CHAMBERLAIN M M	26056	CICCARONE A	24827	CONNETT E V	27322	
CAKVER S R	31121	CHAMBERLAIN M M	26056	CICCARONE A	24303	CONNOR R A	26712	
CAKVER S R	31122	CHAMBERLAIN M M	26056	CICCARONE A	31003	CONOVER R A	29339	
CAK M M	29079	CHAMBERLAIN M M	26056	CICCARONE A	31628	CONSERVATIVE AND UNIONIST		
CASA PACHECO MARQUES DE	23930	CHAMBERLAIN M M	26056	CICCARONE A	31809	PARTY ORGAN	31630	
CASA PACHECO MARQUES DE	26706	CHAMBERLAIN M M	26056	CICCARONE A	32695	CONSOLINIA A	26969	
CASA PACHECO MARQUES DE	26706	CHAMBERLAIN M M	26056	CICCARONE A	31383	CONSTANCE L	23707	
CASADEI S	25850	CHAMBERLAIN M M	26056	CICCARONE A	26057	CONSTANCE L	23708	
CASADO DE LA PUENTE C	26707	CHAMBERLAIN M M	26056	CICCARONE A	32545	CONTI E	27752	
CARANOVA J M	31382	CHAMBERLAIN M M	26056	CICCARONE A	25196	CONTRERAS C F M	26655	
CASAS C R	25021	CHAMBERLAIN M M	26056	CICCARONE A	25197	CONVERSE P F	23758	
CASAS CAMPILLO C	24079	CHAMBERLAIN M M	26056	CICCARONE A	31356	CONWAY H M	24000	
CASE E C	32621	CHAMBERLAIN M M	26056	CICCARONE A	30188	CONWAY T	25199	
CASE H C M	31626	CHAMBERLAIN M M	26056	CICCARONE A	26801	COOK A H	27453	
CASEY J E	31355	CHAMBERLAIN M M	26056	CICCARONE A	26802	COOK F T	31170	
CASIDA L E	27933	CHAMBERLAIN M M	26056	CICCARONE A	30003	COOK F T	31419	
CASIERI U	28660	CHAMBERLAIN M M	26056	CICCARONE A	25134	COOK F T	32375	
CASOS G A	26798	CHAMBERLAIN M M	26056	CICCARONE A	28410	COOK H T	24080	
CASPARI F	24885	CHAMBERLAIN M M	26056	CICCARONE A	30984	COOK L F	26350	
CASPERBSON T	28842	CHAMBERLAIN M M	26056	CICCARONE A	24084	COOK L J	24723	
CASS W G	31165	CHAMBERLAIN M M	26056	CICCARONE A	31925	COOK R C	27146	
CASSADY J T	24715	CHAMBERLAIN M M	26056	CICCARONE A	26557	COOK R L	24365	
CASSEBER F W	25190	CHAMBERLAIN M M	26056	CICCARONE A		COOK R P	24579	
CASTANEDA RACHITOFF A	27086	CHAMBERLAIN M M	26056	CICCARONE A		COOK W C	26970	
CASTANEDO J A	27533	CHAMBERLAIN M M	26056	CICCARONE A		COOK W C	28662	
CASTEJON M G DE	28196	CHAMBERLAIN M M	26056	CICCARONE A		COOMBS E	30769	
CASTELLANI E	24108	CHAMBERLAIN M M	26056	CICCARONE A		COOMBS W F	27645	
CASTELLOTE FERRER J	30848	CHAMBERLAIN M M	26056	CICCARONE A		COON C J	26376	
CASTELO M	30338	CHAMBERLAIN M M	26056	CICCARONE A		COONS G H	32546	
CASTLE H	24351	CHAMBERLAIN M M	26056	CICCARONE A		COOPER C W	24849	
CASTLE M E	30098	CHAMBERLAIN M M	26056	CICCARONE A		COOPER J F	27147	
CASTLE M E	32499	CHAMBERLAIN M M	26056	CICCARONE A		COOPER J M	31420	
CASTRILLO Z	31808	CHAMBERLAIN M M	26056	CICCARONE A		COOPER M	25778	
CASTRO M S	29999	CHAMBERLAIN M M	26056	CICCARONE A		COOPER R A	29814	
CATCHPOLE N	24957	CHAMBERLAIN M M	26056	CICCARONE A		COOPER S	32140	
CATES J B	25468	CHAMBERLAIN M M	26056	CICCARONE A		COOPER W E	23940	
CATION D	23931	CHAMBERLAIN M M	26056	CICCARONE A		COOPERATIVE ALGODONERA		
CATION D	23932	CHAMBERLAIN M M	26056	CICCARONE A		SALVADORENA	30493	
CATION D	24109	CHAMBERLAIN M M	26056	CICCARONE A		COOPERATIVE AUDITING SERV		
CATION D	28122	CHAMBERLAIN M M	26056	CICCARONE A		30101		
CAKACHY L	27243	CHAMBERLAIN M M	26056	CICCARONE A		COOPERATIVE UNION	32283	
CAUDHIL W D	32543	CHAMBERLAIN M M	26056	CICCARONE A		COPELAND O L JR	23820	
CAVALCANTI A G L	28773	CHAMBERLAIN M M	26056	CICCARONE A		COPELEY G H	25472	
CAVALCANTI M DA C P B	31166	CHAMBERLAIN M M	26056	CICCARONE A		COPELEY T L	26058	
CAVALCANTI T A DE A	32457	CHAMBERLAIN M M	26056	CICCARONE A		COPELEY T L	26065	
CAVALES C V	24886	CHAMBERLAIN M M	26056	CICCARONE A		COPEL H C	28759	
CAVALLITO C J	23595	CHAMBERLAIN M M	26056	CICCARONE A		COPPENET W	25738	
CAVANILLAS L	24356	CHAMBERLAIN M M	26056	CICCARONE A		23821		
CAVERA S R	27838	CHAMBERLAIN M M	26056	CICCARONE A		COPOCKUND	31008	
CAVERA S R	27839	CHAMBERLAIN M M	26056	CICCARONE A		COQUERY P	30649	
CAVERA S R	31287	CHAMBERLAIN M M	26056	CICCARONE A		30979	31421	
CAVAYS J R	28077	CHAMBERLAIN M M	26056	CICCARONE A		COHBALEY G C	29840	
CAVAYS J R	31627	CHAMBERLAIN M M	26056	CICCARONE A		CORBET A S	29088	
CAVAYS J R	30850	CHAMBERLAIN M M	26056	CICCARONE A		CORBET A S	29089	
CECCARELLI G	31247	CHAMBERLAIN M M	26056	CICCARONE A		CORBETT R B	31632	
CECIL S H	31247	CHAMBERLAIN M M	26056	CICCARONE A		CORDER R L	27386	
CECIL S H	31248	CHAMBERLAIN M M	26056	CICCARONE A		COHNER H B	25870	
CEMENT AND CONCRETE	29526	CHAMBERLAIN M M	26056	CICCARONE A		CORDY D R	27361	
CEMTELA G	26504	CHAMBERLAIN M M	26056	CICCARONE A		30337	28777	
CENTRALE ORGAN VOOR TOEGE		CHAMBERLAIN M M	26056	CICCARONE A		29086	30922	
PAST NATUREWETENSCHAPPE		CHAMBERLAIN M M	26056	CICCARONE A		28534	28535	
LIJK ONDERZOEK		CHAMBERLAIN M M	26056	CICCARONE A		25198		
BRUODGRAAN EN BRUODCOM		CHAMBERLAIN M M	26056	CICCARONE A		27087	30886	
MISSIE 30082		CHAMBERLAIN M M	26056	CICCARONE A		27751	CONNELL C	26274
		CHAMBERLAIN M M	26056	CICCARONE A		28038	CONNELL R D	25200
		CHAMBERLAIN M M	26056	CICCARONE A		30428	CORPORAAL J B	28255
		CHAMBERLAIN M M	26056	CICCARONE A		29527	CORPORAAL J B	28663



ITEM		ITEM		ITEM		ITEM	
CORPORACION VENEZOLANA DE FOMENTO	30102	CUMMING S A	27148	DAVIS H P	27420	DI AKONOFF A	29096
CORREA O	27148	CUMMING S J N	30253	DAVIS J H JR	27420	DIAMOND W T	30449
CORREIA Y ALBERTY A	30253	CUMMING S M B	30339	DAVIS J L	32623	DIAMOND W T	27689
CORREIA Y ALBERTY A	30339	CUMMING S R J	24366	DAVIS O B	30800	DIARY INDUS COM	30105
CORRIE J E	24366	CUMMING S G B	25047	DAVIS R R	27756	DIAS E	28938
CORSE F L	25047	CUNHA L A DA	32110	DAVIS R O E	26112	DIAS N DA C	30343
CORTEZ F H	32110	CUNHA T J	27558	DAVIST A A	26117	DIAS N R	24881
CONVAZIER R	27558	CUNNINGHAM C H	28699	DAVIST A A	24214	DIAS DURAN J	24871
CONY E	28699	CUNNINGHAM G J	30171	DAVIST A A	24215	DIAS UNGRIC J	26716
COSGROVE D J	30171	CUNNINGHAM I J	30775	DAVIS W S JR	26061	DIAS UNGRIC C	26811
COSLINE H L	30775	CUNNINGHAM I J	26377	DAVIS W W JR	32548	DIAS UNGRIC C	26717
COSSITT F M	26377	CUNNINGHAM I J	25473	DAVISON J R	24960	DIAS UNGRIC J	25479
COSTA F C DA	25473	CUNNINGHAM I J	24626	DAVITTT B V	28413	DIBB J R	28667
COSTA W F DA	24626	CUNNINGHAM I J	27840	DAWSON E H	29888	DIBB J R	28668
COTIGNOLA I E	27840	CUNNINGHAM L C	27149	DAWSON E Y	29872	DICK A	27841
COTONI L	27149	CUNY L	24627	DAWSON E Y	23613	DICK J B	24688
COTTE A	24627	CURRY E H	28664	DAWSON I M	23709	DICK M E	26540
COTTON R T	28664	CURTIS L	23793	DAWSON T R	27757	DICKER R J	28260
COUCH J N	23793	CURTIS L	27976	DAWSON T R	26558	DICKENS J B	26063
COUCH V M	27976	CURTIS O F JR	29881	DAY E W	31335	DICKENS J B	26063
COUILLARD E	29881	CURTIS PUB CO	25474	DAY G H	24373	DICKERSON D	27559
COULTE R F	25474	RES DEPT	24361	DAY G H	30254	DICKINSON E M	29663
COURANJOU A	24361	CURTIS W W	29689	DAY L H	30255	DICKINSON E M	29663
COURSHIE R J	29689	CUTHBERTSON D P	29841	DE S S	24170	DICKINSON S	24375
COVER S	31633	CUTRIGHT C R	28624	DEAN D L	32502	DICKINSON T A	26559
COVER S	31067	CUTTER V M JR	24531	DEAN E P	25213	DICKINSON A D	30889
COVER S	31068	CUTTER V M JR	24563	DEAN H A	28607	DICKINSON A D	30933
COVER W	29626	CYVILLIER J	31158	DEAN J G	28956	DICKINSON C G C	29097
COWAN J C	31158	CYPERT E	31172	DEAR C R	24729	DICKINSON J G	24069
COWAN J C	31172	CZAJA M	28078	DEARBORN C H	31059	DICKINSON N C	24070
COWAN W A	28078	CZAJA M	30103	DEARDEN E R	25592	DICKINSON N C	29399
COWEN G	30103	CZERWINKA W	30646	DEARING G L	23795	DIEGO A I DE	25595
COWEN G	30646	CZERWINKA W	30712	DEAY H O	25593	DIEGO A I DE	28144
COX H A	30712	DABBOUS R	26378	DEAY H O	29091	DIEGUES JUNIOR M	31387
COX H R	26378	DABIS L L	26842	DEBACH P	29144	DIEMAIR W	24564
COX H R	26842	DACCORD A	27740	DEBOUARD J	28935	DIEMER G	28415
COX H R	27740	DACHSEL O	27786	DEBOUTAD J	31564	DIETERICH V	26204
COX H T	27786	DACRE J C	24212	DECHSLIN M	26809	DIETERICH V	26289
COX R S	24212	DADSWELL H E	23941	DECKER G C	26203	DIETRICH L S	27791
COXON C L	23941	DAGGY T	27996	DECKER G C	28322	DIETZ C W BECO B A	31434
COYLE B W	27996	DAGNINO E	30887	DECKER J B	29092	DIJCK VAN	24689
CRABTREE H	30887	DAGNINO RUIZ J	32084	DECKERT MARINELLI R	25814	DIKMEIJER E	30500
CHAFIT J C	32084	DAHLBERG A C	27363	DECOUX L	30009	DIKKSTRAND N D	26718
CHAFIT A S	27363	DAHMS R G L	24368	DEDEHER M	24850	DIKMAN G	27134
CHAFIT A S	24368	DAILEY D L	26351	DEGENER F J	31078	ILLARD F	28145
CHAIG J B	26351	DAINES R H	24162	DEERING W R	29019	ILLARD F	28180
CHALLEY E M	24162	DANGERFIELD K JR	26972	DEGER E	26677	ILLEWIJN C VAN	24851
CHAM B	26972	DAIRY INDUS COM	26973	DEGOLYER A H	24630	DILLON C E	27345
CHAM J S	26973	DAIVS E A	27150	DE GRUY I V	26677	DILLON L S	29098
CRAMPTON E W	27150	DAKERS J S	25201	DE GUERIN B C	29544	DILLSAVER E M	31068
CRAN M	25201	DAKERS J S	28536	DEHLINGER	28258	DIMAS BAUTISTA J	30647
CRANE E E	28536	DAKERS J S	25842	DEIBNER	24730	DIMOCK W W	27540
CRANE F H	25842	DAKERS J S	24369	DEIBNER L	30018	DIMOND A E	24083
CRANE J C	24369	DAKERS J S	23611	DEKEHL G	30010	DIMOND A E	24149
CRANE M B	23611	DAKERS J S	25656	DE LANGE W	27758	DINNING J S	26719
CRANMER D	25656	DAKERS J S	24724	DE LA PORTE B	26977	DINNING J S	27154
CRAVEN W H	24724	DAKING G	27791	DELCASSE H	24216	DINSMORE R P	31336
CRAVENS W W	27791	DAKSHINAMURTY S	32514	DELEVOY G	25566	DIONIGI A	24964
CRAVIOTO R B	32514	DALBY G	26875	DEL GUERRA L	25380	DIONNE G	25480
CRAWFORD A S	26875	DALBY G	30795	DELISLE R	23822	DIONNE G	31388
CRAWFORD E G	30795	DALE W R M	32142	DELLEPIANI GALLI A D	26662	DIONNE G	30135
CRAWFORD F C	32142	DALE W T	29240	DEL LUNGO A	25848	DITCHEM J B	26141
CRAWFORD W G	25475	DALGETY AND CO LTD	31811	DELNOYE M	29093	DITTES H	27934
CRAYBILL W R	31811	DALLING T	29882	DELOACH D B	30730	DITTMER H J	24217
CREASER J	29882	DALLING T	25202	DELOACH D B	31269	DIX E S	32049
CREECH J L	25202	DALMASSO G	32660	DELONG D M	28252	DIXON A F	26064
CRESSWELL M	32660	DALMASSO G	32284	DELPEREER E	28538	DIXON H W	29760
CREWS C R	32284	DALMASSO G	34628	DELPLACE E	23823	DIXON J W	30708
CRIM R	34628	DALZIELL W J	28199	DELLA VILLAR E H	27310	DIXON W E	26978
CRISP D J	28199	DAMBACH C A	25203	DEMICHELIS L A	27152	DOAK A C	30344
CRISP E T	25203	DAN A	28256	DEMICHELIS L A	27539	DOBBINS T N	28669
CRISTOL S J	28256	DANA B F	25476	DEMICHELIS L A	28779	DOBSON B A P	30501
CROCE F M	25476	DANA H J	30796	DEMPEY T R	31537	DOBSON W D	30135
CROCE F M	30796	DANFORTH D	26677	DEMPESTER D G	31634	DOBZHANSKY T	28781
CROCE F M	26677	DANGER F	31978	DENAIFFE	30801	DOBZHANSKY T	28782
CROCIONI A	24629	DANIELSON C B	30005	DENIS J	28582	DOO N E	32669
CROCKER E C	30005	DANIELSON L L	30006	DENMARK E	25048	DOO N E	32670
CROCKER E C	30006	DANILLENKO A A	26059	DENMARK L ANDOKONOM	25048	DOO V L	30244
CROFTS A	26059	DANKENBRING R	27783	DE NARDI S	29126	DOON S H	31389
CROISSANT O	27783	DANKERS W H	25204	DENMARK STATENB PLANTEPA	23824	DOON S H	25093
CROOK H C	24725	DANKS G	29435	DELOGISKE FORBEG	29948	DOOHLERT C A	26153
CROS SARRIA M	29435	DANNA F C	29376	DENMARK STATIS DEPT	32147	DOGADSKIN B A	31337
CROSBIE C J	29376	DANNECKER	30650	DENMARK STATIS DEPT	28936	DOGGETT J F A	26065
CROSBY J	30650	DANNEN E V	30729	DENNING D G	28937	DOLL E R	27529
CROSBY J	30729	DANS C	32143	DENNING D G	29242	DOLL E R	27541
CROSBY J	32143	DANSEREAU P	27538	DENNIS N M	28664	DOLL E R	28041
CROSFIELD P	27538	DANDEN G	23942	DENOZIERE	24961	DOLLEAR F G	31213
CROSIER W	23942	DANLAN L A	25097	DENYER C	28810	DOLSON L L	25216
CROSS F B	25097	DARLING H M	25870	DEONIER C C	28274	DOLSON L L	28079
CROSS H F	25870	DARLINGTON C D	28581	DEORAS P J	28780	DOMANSKI A J	27542
CROSS H F	28581	DAKLOW A E	28856	DERICK R A	24631	DOMATO J	25023
CROSS L C	28856	DART C	24560	DEKINE E	24890	DOMINGUES O	27621
CROSS L E	24560	DAS G M	32144	DE ROOS R	25990	DOMINGUES O	31264
CROSS W H	32144	DAS GUPTA N C	26060	DE ROPP R S	24082	DOMINGUEZ RODRIGUEZ J	
CROSSKEY M A	26060	DASPIT A P	32503	DEROSE R L	29627		
CROWTHER H A H	32503	DASTUR J F	24111	DEROUX R L	29668	DOMINICAN REPUB DIR GEN	
CROWTHER R M	24111	DASTUR N N	25843	DEROUX STRALLA D	29243	DE ESTADIS	29949
CRUZE J	25843	DASTUR N N	29090	DERTEANO URRUTIA C	25594	DOMINICAN REPUB DIR GEN	
CRUESS W V	29090	DATE GROWERS INST	29730	DESAI C M	31215	DE ESTADIS	31635
CRUESS W V	29730	DATTIA S	39801	DESAI M N	31490	DOMINICAN REPUB SEC DE	
CRUISE M	39801	DAUBNEY R	27797	DESAI YARD P	24962	ESTADO DE AGR PECUARIA Y	
CRUMP S L	27797	DAUBNEY R	25205	DESBOS Y	28012	COLON	
CRUZ A A DA	25205	DAUPHINE E J	27886	DESCARREAU L D	28414	JUNTA NAC DE ALIMENT Y	
CRUZ A A DA	27886	DAVERN H	30187	DESCH H E	26526	AGR	31636
CRUZ A A DA	30187	DAVERN H J	30340	DESIKACHARY T V	23775	DONA DALLE ROSE A	24376
CRUZ LLANOS R DE LA	30340	DAVEY M	25090	DESPORTE J	30499	DONA DALLE ROSE A	24731
CRUZ RIASCOS L C	30397	DAVIAULT L	25844	DESSUREAU L	32678	DONALD L	27090
CRUZ RIVERO A	25844	DAVIDSON G H	31812	DESTAFFANY L	27468	DONELSON L E	30731
CRUZ RIVERO A	31812	DAVIDSON H R	32145	DE TRUDE L D	29842	DONHAM C R	27250
CRUZADO H J	32145	DAVIDSON J L	25440	DE TRUDE L D	29843	DONINI A	31565
CSAKY T	25440	DAVIDSON R S	30888	DETWILER J S	30342	DONISTHORPE H	28070
CUBA ECON Y FINANCIERA	30888	DAVIDSON W A	24372	DEUBLER E C	27153	DONISTHORPE H	29021
CUBA MIN DE HACIENDA DIR	31386	DAVIDSON W A	31363	DEVILLERS P	24963	DONISTHORPE H	29021
GEN DE ESTADIS	32376	DAVIES B	29584	DEVINE B W	29042	DOORENBOS J	23711
CUENOD A	24213	DAVIES E B	25847	DEVINE J	26527	DOORENBOS J	23712
CUFF R L	28257	DAVIES G R	26141	DEVLIN S	29690	DORAN H F	32344
CUFF R L	29241	DAVIES H	31077	DE VOTO B	26062	DORAGATTI F	27155
CHUISANCE P	28257	DAVIES J L	28537	DEWALD L	29398	DORIGATTI F	31637
CULBERTSON R E	28257	DAVIES W	24728	DEWAN M L	28118	DORMAN H J	30508
CULP H W	24728	DAVIN J A	27620	DEWEY A W	31431	DORMAN K W	26205
CULP V H	29486	DAVIS C C	31467	DEXTER R W	24728	DORMAN K W	26205
CULPIN C	32146	DAVIS C T	31489	DEYS W B	29094	DORONIN P I	26667
CULPEPPER C W	24687	DAVIS D	27958	DEYSSON G	31489	DORWARD K	28262
CULTON T G	30798	DAVIS E C	26379	DHARMANI L C	26715	DOSKER C E	26560
	27814	DAVIS E C	29585	DIACHUN S	23894	DOS V	29691
		DAVIS E C	27089	DI AKONOFF A	28200	DOSOGNE R	28539
				DI AKONOFF A	29095	DOSTAL V G	26428







ITEM		ITEM		ITEM		ITEM	
FISCHER A	28678	FOURGEAU J	26143	GABBERT H S	30899	GEORGE J F	30515
FISCHER C M	29762	FOURNET E	30810	GABRIELSON G	26246	GEORGE L V	25489
FISCHER C M	31269	FOURNET L	26207	GADDO F U I	26821	GEORGE M C	25716
FISCHER K K	31983	FOURT D L	26990	GADOLA A U I	30514	GAGNER AND DEVLPT B I	
FISCHER K H	29316	FOURY P	26384	GADRE R W	27977	GEHBER J	30116
FISCHER S H	31271	FOWLER G R	26819	GADSCH	28280	GEHDES F L	30516
FISCHER W	30017	FOX A	26069	GAHAN J B	26296	GERHARDT F	30811
FISHER E L	32158	FOX C P	32551	GAINES E M	28281	GENICKE S	25860
FISHER F J	30510	FOX F W	32552	GAINES J C	29235	GERMANY TER UNDER ALLIED	
FISHER J L C	30430	FOX L K	32113	GAINES J C	26107	OCUP	
FISHER W S	26175	FOX W B	32717	GAINES J G	28456	U S BRIT BIPARTITE CON	
FISK E L	26879	FRAENKEL CONHAT H	31293	GALE A W	28427	THL OFF 29953	
FISKE R L	24380	FRANCE R A	25096	GALIBERT A	23831	U S BRIT BIPARTITE	
FITCH M K	30312	FRANCE CENTRE NATL DU COM		GALINDO A	28082	AND AGR PANEL	
FITCH W J	32468	EXTERIEUR 31650		GALL H J F	28182	GEHMOND D DE FILS	
FITZGERALD A U	32170	FRANCE CENTRE NATL DU COM		GALLAGHER C	24392	GEKNOT D	
FITZGERALD L R	28138	EXTERIEUR 31651		GALLEGLY M E	25999	GEKNOCK E	
FITZGERALD M	29193	FRANCE CENTRE NATL DU COM		GALLEGLY M E	23956	GEKRY R W	
FITZGERALD O A	26600	EXTERIEUR 31652		GALLEGLY M E	24084	GEKSTNERBERG R	
FITZPATRICK D	32159	FRANCE CENTRE NATL DU COM		GALLEGLY M E	32162	GEKSTNER E	
FJELKNER P A	28422	EXTERIEUR 31653		GALLEGLY M E	25486	GEKSTNER R	
FLACCOMIO E	26986	FRANCE COMM DE MODERNISA		GALLEGLY M E	24393	GEKTLER S I	
FLACCOMIO E	32796	TION DE L'ENSEIGN DE LA		GALLEGLY M E	24935	GEKUNDO M	
FLACH G	30656	RECHERCHE ET DE LA VULG		GALLEGLY M E	25971	GESELLSCHAFT FUR FORST	
FLANDERS S E	31567	EN AGR 32161		GALLUP W D	27247	LICHE ARBEITSWISSEN	
FLANZY	28952	FRANCE DIR DE LA DOC		GALLUP W D	26719	SCHAFT 26445	
FLECK G J	30018	FRANCE DIR DE LA DOC		GALLUP W D	27154	GETTYS MRS R E	
FLEISCHHAUER E	27365	FRANCE DIR DE LA DOC		GALLWITZ K	29466	GEURDEN L	
FLEMER W III	25720	FRANCE DIR DE LA DOC		GALSTON A W	24394	GEVONKIANTS S A	
FLEMING H	25239	FRANCE DIR DE LA DOC		GALSTON A W	24395	GEVONKIANTS S A	
FLETCHER H L V	29317	FRANCE DIR DE LA DOC		GALSTON A W	30022	GEVONKIANTS S R	
FLETCHER S W	24893	FRANCE DIR DE LA DOC		GAMACHE C A	32292	GEYER K	
FLICKINGER M H	32160	FRANCE DIR DE LA DOC		GAMARRA DULANTO L	26132	GEYER M A	
FLINKER M L	24385	FRANCE SERV COLON DE		GAMBRELL F L	28631	CHANI M U	
FLINT D	27366	STATIS 32387		GAMBRELL F L	28957	CHETTY G	
FLOAT F P	27494	FRANCES U R		GAMMON JR	25859	CHETTI G	
FLOCH H	27846	FRANCIS C A		GANDARILLAS H	24396	CHIGI E	
FLOOD A E	23630	FRANCIS D A		GANDY D E	31178	CHIANA A	
FLOOR J	31390	FRANCIS P DE		GANE R	29891	GIANNINI A	
FLOOR J	24894	FRANCIS P DE		GANNON A	31276	GIANNOTTI O	
FLOOR J	24973	FRANCIS P DE		GANTZ H L	31985	GIBSON H B	
FLA CITRUS COMM	30759	FRANCIS R		GANTZ H L	30023	GIBSON K E	
FLA FRUIT AND VEG ASSOC		FRANCKE L		GARBBER K	25658	GIDDINGS N J	
FLA STATE CHEM	29802	FRANKEL O H		GARBBER K	29492	GIL COLLADO J	
FLORY W S JR	24388	FRANKENFELD J C		GARBBER K	30232	GIL COLLADO J	
FLOROS S	31358	FRANKLIN H J		GARBBER K	32487	GIL COLLADO J	
FLUCKIGEN G	26817	FRANKLIN P M		GARBBER K	26910	GIL FORTUN F	
FLUCKIGEN G	27158	FRANKLIN P M		GARBBER K	27495	GILGARDI R C	
FLUITER H J DE	28873	FRANKLIN P M		GARBBER K	27626	GILBERT C L	
FLUKE C L	28953	FRANKLIN P M		GARBBER K	26705	GILBERT F A	
FLUKE C L	28954	FRANKLIN P M		GARBBER K	27059	GILBERT H A	
FOBES C B	26353	FRANKLIN P M		GARBBER K	31659	GILBERT I H	
FOBES E W	26429	FRANKLIN P M		GARBBER K	24601	GILBERT L	
FOGG G E	24389	FRANKLIN P M		GARBBER K	26723	GILBERT P A	
FOGG G E	24390	FRANKLIN P M		GARBBER K	26724	GILBERT R H	
FOIDART D	25856	FRANKLIN P M		GARBBER K	31660	GILCH R	
FOLEY E J	27159	FRANKLIN P M		GARBBER K	25731	GILCH R	
FOLEY E J	27160	FRANKLIN P M		GARBBER K	30024	GILCHRIST F W	
FOLEY W T	29844	FRANKLIN P M		GARBBER K	32388	GILDIEN R O	
FOLLENS V	25095	FRANKLIN P M		GARBBER K	24307	GILDIERSLEEVE T W	
FOLLEY R W	29490	FRANKLIN P M		GARBBER K	29601	GILDOU E M	
FOLLICK C	25240	FRANKLIN P M		GARBBER K	25607	GILES N H JR	
FOLLONIA A	25857	FRANKLIN P M		GARBBER K	25487	GILL B	
FOLSE D S	26818	FRANKLIN P M		GARBBER K	28428	GILL D A	
FONDARD L	24634	FRANKLIN P M		GARBBER K	30974	GILLARD S O	
FONDARD L	25858	FRANKLIN P M		GARBBER K	30975	GILLARD S O	
FONDARD L	26142	FRANKLIN P M		GARBBER K	31102	GILLESPIEN	
FONDARD L	30809	FRANKLIN P M		GARBBER K	24566	GILLET P T	
FONG H D	30511	FRANKLIN P M		GARBBER K	26354	GILLIGAN G M	
FONTAINE R	31566	FRANKLIN P M		GARBBER K	27272	GILLIGAN G M	
FONTAINE R	31569	FRANKLIN P M		GARBBER K	27763	GILLIN P	
FONTAINE R	31570	FRANKLIN P M		GARBBER K	31474	GILLING A T	
FONTANILLE M H	30019	FRANKLIN P M		GARBBER K	27470	GILLIS M B	
FONTES VEIGA T	27624	FRANKLIN P M		GARBBER K	25049	GILLIS M B	
FOOD AND AGR ORGAN OF THE		FRANKLIN P M		GARBBER K	29586	GILLISSEN G	
UNITED NATIONS	19693	FRANKLIN P M		GARBBER K	24738	GILLMAN C	
FOOD AND AGR ORGAN OF THE		FRANKLIN P M		GARBBER K	26725	GILMORE L O	
UNITED NATIONS	30512	FRANKLIN P M		GARBBER K	28124	GILPIN G L	
FOOD AND AGR ORGAN OF THE		FRANKLIN P M		GARBBER K	23957	GIMBLE F	
UNITED NATIONS	31646	FRANKLIN P M		GARBBER K	24739	GIMMINGHAM C P T	
FOOD AND AGR ORGAN OF THE		FRANKLIN P M		GARBBER K	24666	GINOUX R	
UNITED NATIONS	31647	FRANKLIN P M		GARBBER K	30719	GINSBERG A	
FOOD AND AGR ORGAN OF THE		FRANKLIN P M		GARBBER K	32096	GINSBERG A	
UNITED NATIONS	31648	FRANKLIN P M		GARBBER K	27961	GINSBURG M E	
FOOD AND AGR ORGAN OF THE		FRANKLIN P M		GARBBER K	24602	GINSBURG Z B	
UNITED NATIONS	32673	FRANKLIN P M		GARBBER K	27548	GINSBURG Z B	
FOOD AND AGR ORGAN OF THE		FRANKLIN P M		GARBBER K	26822	GIOBEL C	
UNITED NATIONS	32673	FRANKLIN P M		GARBBER K	32628	GIORDANO A	
CANADIAN INTERDEPT FAO		FRANKLIN P M		GARBBER K	25247	GIALDO M	
COM 31649		FRANKLIN P M		GARBBER K	24567	GIALDO M G	
FOOD PROD COUNCIL INC		FRANKLIN P M		GARBBER K	23685	GIALDO O	
26994		FRANKLIN P M		GARBBER K	25488	GISH R E	
FOOT A S	27271	FRANKLIN P M		GARBBER K	23619	GITI	
FOOTE R H	26987	FRANKLIN P M		GARBBER K	27977	GIULIANELLI E	
FOOTE R H	26988	FRANKLIN P M		GARBBER K	23799	GIULIANELLI E	
FOKATINI O P	23906	FRANKLIN P M		GARBBER K	23799	GLADSTONE G P	
FOKBERG I JR	29803	FRANKLIN P M		GARBBER K	23800	GLESBERG S A	
FOK C M	30856	FRANKLIN P M		GARBBER K	24397	GLASS A	
FOK K E	26146	FRANKLIN P M		GARBBER K	24398	GLAZER R	
FOK O W	27588	FRANKLIN P M		GARBBER K	27243	GLEBINA E I	
FOREMAN M	30973	FRANKLIN P M		GARBBER K	24222	GLEBINA E I	
FORESTI C	27149	FRANKLIN P M		GARBBER K	31014	GLEDENNING H	
FORGEOT P	24735	FRANKLIN P M		GARBBER K	32097	GLOOR	
FORNIGONI L	26722	FRANKLIN P M		GARBBER K	26683	GLUCK L	
FORNIGONI L	26722	FRANKLIN P M		GARBBER K	24223	GLUCKSMANN E J	
FORNIGONI L	27092	FRANKLIN P M		GARBBER K	26911	GLUCKSMANN E J	
FORNIGONI L	30431	FRANKLIN P M		GARBBER K	24434	GLUNDER H G	
FORMOSA FORESTRY ADMIN		FRANKLIN P M		GARBBER K	24976	GMEINDER A	
26295		FRANKLIN P M		GARBBER K	28429	GMEIN W	
FORREST A C	32085	FRANKLIN P M		GARBBER K		GMEIN W	
FORNSBERG J L	23829	FRANKLIN P M		GARBBER K		GMEIN W	
FORSTER I W	28423	FRANKLIN P M		GARBBER K		GMEIN W	
FORSTER H R	28585	FRANKLIN P M		GARBBER K		GMEIN W	
FOST W	32953	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTESS F	30513	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTESS F	29032	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTESS F	26919	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTESS F	31274	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTESS F	24178	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTESS F	25997	FRANKLIN P M		GARBBER K		GMEIN W	
FOSSUM M T	25241	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTER A O	28148	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTER C	26318	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTER C	26682	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTER E	25998	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTER E M	30350	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTER J C	32386	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTER L	25604	FRANKLIN P M		GARBBER K		GMEIN W	
FOSTER R L	26068	FRANKLIN P M		GARBBER K		GMEIN W	
FOUASSIER M	30189	FRANKLIN P M		GARBBER K		GMEIN W	



ITEM	ITEM	ITEM	ITEM	ITEM
GODDY J C	26913 GRAHAM H M	26505 GROSCHKE A C	27770 HALL M A	26388
GOEDE J J C DE	26966 GRAHAM P H	26465 GROSS F C	30905 HALL M O	27697
GOEDECKE O	30517 GRAHAM P H	26541 GROSS J H	32555 HALL M O	27853
GOETHE C M	26176 GRAHAM P H	26542 GROSS N	32098 HALL O	26828
GOETZ	26464 GRAHAM P H	26543 GROSSE R E	31666 HALL R B	25867
GOFMAN M B	31822 GRAHAM S A	26886 GROSSE BRACKMANN E	26171 HALL T L	30356
GOHEEN L C	23959 GRAHAM T G	32554 GROSSE LUMERN	31824 HALL W T	27966
GOJANICH G	24401 GRAHAM T W	24163 GROULADE P	27243 HALL V E	25780
GOLDANICH G	24900 GRAHAM T W	26107 GROULADE P	27370 HALLE J	32168
GOIFFON E	30190 GRAHAM ENOCK A	30353 GROULADE P	27371 HALLE J	30909
GOLBERG L	28875 GRAHAM H	26631 GROULADE P	31928 HALLE P	30910
GOLDBERG J B	30518 GRAINGER H S	30662 GROVES A B	23837 HALLEMA A	31391
GOLDBERG M	28822 GRAINGER J	24405 GRUMMER O M	27399 HALLER H L	28256
GOLDEN RETRIEVER CLUB	28082 GRANADOS F	29378 GRUMMER R	28141 HALLIDAY E G	32524
AMER 27324	GRAND E F	26915 GRUNER R	29697 HALLIWELL A W	31451
GOLDING E W	29654 GRANDCHAMP CHAUDIN A DE	GRUNEWALD W	26610 HALLOCK H C	28940
GOLDING F U	29198 GRANDE L	GRUNNOW H	26885 HALLSALL T G	24568
GOLDING N S	30188 GRANDE L	GRUNOW W W	26387 HALSEY L	29732
GOLDING N S	30191 GRANUIN P	GRUSSING B D	29288 HALVERSON A W	26739
GOLDING N S	30192 GRANUJEAN F	GUAL A T	29024 HAN V S JR	26506
GOLDMAN O E	27368 GRANHALL I	GUALBA C	25663 HANBURGER H	24853
GOLDMANN F	32166 GRANLUND K	GUALBA C	30354 HAMILTON A P F	26321
GOLDSBY A I	27762 GRANT C	GUARD S R	27000 HAMILTON A S	27375
GOLDSCHMIDT R B	28204 GRANT R	GUARD S R	31825 HAMILTON D G	24631
GOLUSTEIN E H	30135 GRANT R	GUBA N	24901 HAMILTON E L	23623
GOLDSWORTHY M C	23960 GRANT W S	GUERANDE C	27629 HAMILTON H M	32169
GOLLAN F	27359 GRANT PARISH LA PLAN B	GUERANDE C	27771 HAMMAR H E	24409
GOMES P	25491 GRASSE P P	GUERCHY J DE	30031 HAMMARLUND B	29846
GOMES P	25492 GRASSE P P	GUERNSEY F W	26611 HAMMARLUND L	28289
GOMES P	26569 GHATON A	GUERRERO D	24079 HAMMER O	28432
GOMES P	25210 GHATTONI S	GUEST A	25972 HAMMER O	30978
GOMES P	26211 GRAU C R	GUEVARA L A	31826 HAMMOND A E	29820
GOMES P	31662 GRAUB E	GUEZENNEC G	32700 HAMMOND A E	30815
GOMES LAPEYRE M	26684 GRAUMANN H	GUIDA V O	27166 HAMMOND G H	28688
GOMEZ E J	32391 GRAVATT M S	GUIDA V O	27373 HAMMOND L C	24410
GOMEZ AYAU E	26914 GRAVEL R E	GUIDA V O	27374 HAMNER C L	23950
GONET C	26212 GRAVEL R E	GUIDAZIO C F	30355 HAMON M	29214
GONGGRYP J W DE J	26386 GRAVES H S	GUILBERT H R	27274 HAMPSON C M	31828
GONZALEZ A DE J	24745 GRAVESTEN W H	GUILD M D	30906 HANAU A	29847
GONZALEZ A DE J	24746 GRAY C	GUILD W J M	25757 HANCOCK J L	27552
GONZALEZ C	24747 GRAY G T	GUILHON J	28049 HANDB D	27893
GONZALEZ C	32333 GRAY H E	GUILHON J	28050 HANDB D	27893
GONZALEZ C	25660 GRAY M L	GUILHON J	28590 HANDCOCK J M	31398
GONZALEZ C	30660 GRAY P P	GUILHON J	27998 HANDLER H	24309
GONZALEZ L M	26815 GRAY T O	GUILLERMO L L R	29252 HANDLEY G E	25263
GONZALEZ CUBILLO J	27549 GRAY W T	GUIMARAES L R	31819 HANGER F	25264
GONZALEZ DE HARO S	25863 GRAYSON E C	GUINOT R	27325 HANIG M M D	30714
GONZALEZ DE LOPEZ CANAL	GRAYSON J M	GUINOT R	27423 HANITZSCH E	26494
J 24553	GT BRIT BD OF TRADE	GUISCARRE ARRILLAG J	HANKE	29496
GONZALEZ GARCIA F	25744 GT BRIT BD OF TRADE	23964	HANLEY F L	25868
GONZALEZ MARIN F	31436 GT BRIT BRIT GUIANA AND	GUISE C H	26665 HANNA R L	28281
GONZALEZ ORTIZ A	30519 BRIT HONDURAS SETTLEMENT	GULOWSEN K T	26530 HANNA W F	24285
GONZALEZ OVEJERO L	26826 COMM 31959	GUNCKEL J E	24407 HANNA W F	25741
GONZALEZ RIOS P	24852 GT BRIT CENT STAT OFF	GUNDERSON H	26885 HANNAH H W	26001
GOOD C M	30118 29954	GUNDERSON H	29108 HANNAH H W	31668
GOODALE R P	29819 GT BRIT COLON OFF	GUNDIAN V B	26072 HANNAH H W	32397
GOODALL D W	24425 COM FOR COLON AGR ANIM	GUNDRY B G	29892 HANNAS R R	27631
GOODALL D W	24402 HEALTH AND FOREST RES	GUNN C K	27472 HANNAS R R	27698
GOODIN R E	30776 32699	GUNN C K	27473 HANNI H	25611
GOODLAND R L	27809 GT BRIT COMMONWEALTH ECON	GUNN D L	29199 HANOVER PROV LANDWINT	31987
GOODMAN M	29529 GT BRIT CUSTOMS AND	GUNN D L	29200 SCHAFTSKAMMER	24411
GOODRUM P	28586 EXCISE DEPT 32394	GUNN R M C	27999 HANSELL H	25265
GOODSELL W D	31932 STATIS OFF	GUNNER P J	30733 HANSELL D E	26829
GOODWILLIE D B	30351 GT BRIT DEPT OF COM INTEL	GUNTHER M	27630 HANSEN A C	31571
GOODWIN R H	24435 AND STAT 29955	GUSLER G	29698 HANSEN G A	32680
GOODWIN R H	25254 GT BRIT FORESTRY COMM	GUSLER G	30907 HANSEN H	24902
GOPALAN K	30661 26248	GUSLER G	31280 HANSEN H F	24190
GORACHEVA A P	26727 GT BRIT MIN OF AGR AND	GUTERMAN	27365 HANSEN H N	25494
GORDON E T	25255 FISHERIES 25493	GUTHRIE J D	24743 HANSEN L	30195
GORDON E T	25256 GT BRIT MIN OF AGR AND FI	GUYOT R	30546 HANSEN O S	29322
GORDON E T	26995 FISHERIES 25609	GUYOT R	27849 HANSEN W F	28795
GORDON G B	30750 GT BRIT MIN OF AGR AND	GUZZINI D	25610 HANSENS E J	30196
GORDON H A	27799 FISHERIES 28047	GUZZINI D	25050 HANSSON E	30630
GORDON H M	28046 GT BRIT MIN OF AGR AND	GUZZINI D	30663 HAPPEY F	28051
GORDON J	32516 GT BRIT MIN OF AGR AND	GWATKIN H	28151 HAKBOURBERGH	31016
GORDON L E	30813 FISHERIES 27769	HAAN I DE	25866 HARDENBURG R E	30750
GORDON R A	30259 GT BRIT MIN OF AGR AND	HAA R C M	32050 HARDESTY W G	24412
GORDON R F	27766 FISHERIES 29956	HAA R C M	27550 HARDING C W	31669
GORDON R F	27767 GT BRIT MIN OF AGR AND	HAAS O	32622 HARDING F W	31522
GORENZ A M	23961 FISHERIES 30732	CHABANNES J	24337 HARDISON J R	24128
GORET R	27768 GT BRIT MIN OF AGR AND	HABEEB H	24408 HARDY D E	28796
GORHAM J H	27454 FISHERIES 31538	HABEL K	26895 HARDY D E	28797
GORHAM J R	27456 COM OF INVEST INTO THE	HABERMANN R T	28148 HARDY E	25266
GORHAM J R	28587 COTTON TEXTILE MACH	HABRAN R	25051 HARDY E	27632
GORKING A	28431 INDUS 30522	HABU A	28687 HARDY W D	31282
GORRIE R M	26320 GREAVES W S	HACECKY R M	27551 HARDY W D	27099
GORSLINE E P	29337 GRECO I	HACHMANN W	30814 HAKEN S	29400
GORTARI M	24637 GREEN E E	HACKBARTH J	30908 HAKGREAVES G	30313
GORTNER W A	30825 GREEN E E	HACKER F	24749 HAKING	25495
GORTNER W A	31109 GREEN H H	HACKETT P J	31015 HAKKEMA R	29253
GORZON B	26685 GREEN J	HADDON S G	26886 HARMAN S W	29110
GOS L W	27369 GREEN J	HADLINGTON E	27850 HARMER S	25267
GOS W H	31180 GREEN R J	HADLINGTON E	27851 HARMSTON F C	28798
GOSMAN M I	27413 GREENHAM D W P	HAEUSSLER G J	31281 HARMSTON F C	28893
GOT N	30029 GREENROYD J	HAFELE C	28288 HAMPER H J	25869
GOTBCHY W	29547 GREENROYD J	HAFELE C	29437 HAMPER H J	25870
GOTTBEHUT A H	27471 GREENWOOD U E	HAFER CHTER A L	29438 HAMPER J A	29548
GOTZ B	23834 GREENWOOD W	HAFIZ M	24750 HANPHAM W	31670
GOULD C J	23962 GREER W E R	HAGAN L	28793 HARR J F	27856
GOULD C J	24403 GREGG M M	HAGEDORN A L	28794 HARR J G	24051
GOULD E	23963 GREGG M M	HAGEDORN D J	23965 HARRINGTON A H	29767
GOULD E	27422 GREGG M M	HAGEN C	30546 HARRINGTON L	32051
GOULD E	29107 GREGG R E	HAGEN C W	27852 HARRINGTON R W JR	28203
GOULD E	31081 GREGORY J M	HAGEN K W	24118 HARRIS C A	30523
GOULD G E	28283 GREGORY P H	HAGGETT G	24603 HARRIS C E	27871
GOULD G E	28284 GREGORY P H	HAGUARD E S	27457 HARRIS E E	26567
GOULD G E	28285 GREGORY P H	HAGUERUE H D	27458 HARRIS E E	27095
GOULD G G	28252 GREGORY P W	HAHN G G	25632 HARRIS H C	24413
GOULD G N	27163 GREIDER G M	HAHNE H A	29321 HARRIS H W	29630
GOULD I A	30193 GRENSTED L W	HAIMERL J	23966 HARRIS J	28000
GOULD J S	30352 GNEVE	HAINES D B	25723 HARRIS J	31671
GOULD S E	31126 GREVE S G	HAINES W S	29613 HARRIS J	32398
GOUNY P	24404 GREW R	HAINSWORTH R G	26629 HARRIS J B	24903
GOUD SOC OF AMER	25661 GREY L P	HAKKON H J	25100 HARRIS S E	31452
GOURLEY A D	31181 GRIEBELER W L	HALE M G	25556 HARRIS S E	32399
GOUEIA P F	27497 GRIES G A	HALL C A	29766 HARRISS R W	24977
GOUYGOU C	28162 GRIESBECK	HALL C J	31667 HARRISS R W	30816
GOWEN A	26070 GRIFFITHS J T JR	HALL C J	30081 HARRIS S T	28052
GOWEN A	26071 GRIMM H	HALL D G	25261 HARRISON C M	24752
GOWEN J W	26827 GRIMPET J	HALL F A	25101 HARRISON G J	30524
GOYET J	25864 GRISHIN V	HALL G W	25102 HARRISON J W H	28962
GOZONHAUD P	25865 GRISON P	HALL I F	29201 HARRISON J W H	29111
GRABER L F	26297 GRISON P	HALL I F	26000 HARRISON J W H	29112
GRABO P	24380 GRISON P	HALL I F	25262 HARRISON J W H	29113
GRACANIN M	31787 GRISWOLD R M	HALL I F	30120 HARRISON J W H	29114
GRACE N H	25796 GRODER J	HALL I F	31827 HARRISON J W H	29115
GRACE O U	31182 GROGAN F O	HALL I F	31986 HARRISON K A	25088
GRACEY R E	27746 GROGAN R C	HALL J A	26566 HARRISON L E	30709
GRACIA C E	26996 GROGAN R C			
GRACIA C E	27997 GROOT C DE			
GRACIA C E	28126 GROSCH D S			











KIBBEY M B	26496	KOCK W	27461	LABRASH M	25310	LAURENT R	30141
KIINNER A	25509	KODANI M	24439	LACEY J J	28810	LAURENT R	32410
KIINNER A W	25510	KOENIG N	31697	LACEY J J	28811	LAURENT R	32411
KILSON A	27017	KOENIG N	31698	LACEY M S	24088	LAURIE A	25886
KIEFER J E	30824	KOESTLER C	30366	LACEY P H	27427	LAUXMANN KINZELMANN L	
KIEFER MRS R M	29702	KOESTLER G	30136	LACHEIMIS P	31575	25762	
KIELANOWSKI J	27872	KOESTLER G	30137	LACHENMAIER F	32194	LAUXMANN KINZELMANN L	
KIELPINSKI J	24768	KOESTLER G	30367	LACOMBE R	25885	27703	
KIENE P	31842	KOFFSKY N	29852	LACOSTE R	24770	LAVALLARD M L	24771
KIENLI W	24911	KOHLER H	25512	LACOUR	27395	LAVOLLAY J M	30673
KIESLER P F	30859	KOHLER R	24607	LA COUR L F	32547	LAWRENCE F M	30674
KIESSELBACH T A	24641	KOHLMAIER J	28098	LACZYNSKA T	24643	LAWRENCE J F	30264
KIFER R	31186	KOHL R L	31291	LADARIA CALDENTEY L	26809	LAWRENCE J F	28459
KIKIM B I	31843	KOHTS A E	27327	LADBURG R C	34124	LAWSON J A	28450
KILBOURNE F L JR	31378	KOHTS A E	27779	LADBURG R C	24125	LAWTON H F	25316
KILLGORE A G	24671	KOISTINEN O A	28057	LADON A A	26508	LAYA S	24374
KILLION K E	27937	KOLLMANN F	26346	LADRAT	29384	LAYCOCK G	27875
KILPATRICK J	27500	KOLOSOV A	26471	LAFLEUR W	24445	LAZENBY K G	23634
KIMBALL M H	23912	KOMARNITSKII N X	32473	LAFON F	31524	LAZZERINI O	31846
KIMBALL O P	32473	KOMP W H W	29260	LAFORTUNE J G	26845	LEA R	24997
KIMMINS D E	26109	KONDE W N	29260	LA FIENIE DE LA CAMERA	25799	LEACH C E	28090
KINCAID R R	29454	KONDE W N	27383	LAC J C	31393	LEACH L D	23989
KINDSCHY D L	25883	KONEMANN E	27384	LAC LAGHARQUE L DE	24833	LEAF C B	26438
KING A H W	31694	KONEMANN E	24833	LAHOUSSE J	29733	LEAF R L	31433
KING B	27426	KONEMANN E	31961	LAIOLAW H H JR	28547	LEAL M	26181
KING C G	32474	KONIG E	31962	LAIKO M V	26436	LEANZA A F	23635
KING C J	24087	KONIG G A	26395	LAIPPLE E	30139	LEATHERMAN S B	25317
KING C J	23634	KONIG MRS K	30368	LAKELA O	23731	LEBEAU A C A	27428
KING G M	23986	KONOKOTIN L	31934	LALANNE	29500	LEBEAU F J	23990
KING G J G	29805	KOONMAN J	30369	LALL H K	28004	LEBEN C	23991
KING G S	24437	KOONCE D	31699	LALLEMAND	26255	LE BOT M	26159
KING H H	30949	KOOPMAN C	24660	LALLOY	29609	LE BOVIT G B	27182
KING H L	28619	KOPACZEWSKI W	24912	LALLOY M	29327	LEBRAS J	31339
KING J P	29900	KOPPE	30207	LAMARCHE VILLALON R	24009	LE CHARLES L	29127
KING K	32055	KOPROWSKI H	27287	LAMBERT M E	30813	LECLERCQ M	28815
KING N J	24855	KOPPER F	26842	LAMBERT N	25311	LECLERCQ M	28815
KING N J	24856	KOFER F	31844	LAMBORN E	29450	LECOMPT S B JR	25517
KING R	26158	KOFER F	27591	LAMBORN O H	31394	LECONTE P	23849
KINGSTON J G	31342	KOHLEFF A	26356	LAMBOU M C	24437	LECONTE P	23992
KINN T P	29901	KOPRICH N	26446	LAMMINEN A J	31196	LEDING A R	24090
KINSEY C JR	25891	KOSAKOFF H	25521	LAMOND H G	28089	LEE A M	25620
KINSEY V	27963	KOSANKE R M	29206	LAMSON M D	25312	LEE A T M	32056
KINSKY F	27642	KOSER S A	23632	LANCY C	30802	LEE C E	27704
KINTZLEY W P	29291	KOSSWIG C	24440	LANCIE A	27516	LEE C E	27705
KIPLINGER D C	25886	KOSTER K	26845	LANDESS W M	29703	LEE C E	27706
KIRBY A	31024	KOSTOFF D	26472	LANDGREBE W	29501	LEE C E	27782
KIRBY R S	23087	KOSTOFF D	24123	LANDIS J	31292	LEE C H	24130
KIRCHMEYER F	28443	KOTTE W J P	24441	LANDIS P H	32195	LEE F A	30825
KIRIAKOFF S G	25884	KOTVAL	28312	LANDMAN H	26447	LEE F P	23636
KIRIUKHIN A	29124	KOTZE P L	24442	LANDREVILLE P	25515	LEE I M	30675
KIRK D E	29499	KOUBEK J W	27180	LANDSBERG A C	25313	LEE S W	27159
KIRKHAM D	25645	KOUTZ F R	24037	LANDTSHEER H DE	24446	LEE S W	27160
KIRKOR S	24410	KOUTZ F R	27874	LANE J	28812	LEEDER J G	30372
KIRKSEY G	28446	KOVAR A	26843	LANE J	28813	LEEMANS O	30545
KIRSCHNER B	26839	KOZLOV A	27780	LANE J A	25311	LEES A B	31847
KIRST W	30543	KRAFT J	23633	LANE M C	28662	LEES A D	28596
KISEL E G E	30544	KRAFT M E	29516	LANE M C	28698	LEES H	25749
KISER O M	25307	KRAL H	29603	LANE T	26120	LEEUWENBURG P	31029
KISTNER H	28117	KRAMER C	27230	LANG B	26076	LEFEVER G	26174
KITCHEN F	25428	KRAMER H A	28313	LANG C D	31088	LEFORT DES YLOUBES G	
KITCHEN H B	31695	KRAMER P J	25293	LANG S B	25975	LEFORT DES YLOUBES G	
KITCHENS J H JR	25829	KRAMER P J	30919	LANGDALE H JR	26306	LEFORT DES YLOUBES G	
KITZMILLER J B	26666	KRASOCHKIN V T	29927	LANG H	32196	LEGER J E	26144
KIVIMAE A	28972	KRAUS E J	25513	LANGEN V	27020	LEGGETT J K	26492
KJAR N A M	27103	KRAUS E J	27781	LANGEN V	31025	LEGRAND J J	29977
KJELLANDER E	24769	KRAUS J	25308	LANGER J	29774	LEGRANDE A H	30265
KJELLBERG M E	28310	KRAUS J	31700	LANGER P H	27222	LEGROS C	28700
KJELLEN C	32463	KRAUSE F A	31701	LANGEVIN E	23847	LEHMAN A J	28337
KJELSEN L G	28546	KRAUSS B H	29903	LANGEVIN E	24985	LEHMAN S G	23850
KLAGES K H	32190	KREBS E A	24239	LANGFORD G S	28699	LEHMANN A	30979
KLASSEL O	25631	KREBS H A	26304	LANGFORD G S	29126	LEHMANN C A	26216
KLEA	31696	KREHM H	24341	LANGILLE I	31702	LEHMANN H	29961
KLEERMAEKER K J B DE	31574	KREITLOW K W	31087	LANGHARD O	30140	LEHMANN N	25518
26181		KREITLOW K W	23845	LANGHARD O	30922	LEIN A	24245
KLEFFENS A VAN	32406	KREMER J C	23988	LANGUASCO F A	28156	LEITCH A	25318
KLEIBER M	27087	KREPPPELT G	28448	LANTZ A W	31440	LEITE I C	28978
KLEIBER M	27179	KRENN K	27938	LANUS A J	26918	LEITE J C	32197
KLEIN F	24438	KREUZ A	26396	LAPAGE G	28059	LEITFADEN	25671
KLEIN G T	27643	KREUZEN E M V	31194	LAPEYRONIE A	28316	LEIZ F	24834
KLEIN G T	27701	KREWATSKY B	26182	LAPI E	28449	LEMAISTRE J	24986
KLEIN G T	27873	KRICHEVSKY B	26397	LAPIN P I	26437	LEMAISTRE J	25031
KLEIN G T	29556	KRIEKE W A	29904	LAPINE L J	24447	LEMAISTRE J	28816
KLEIN G T	31289	KRIEKE W A	27958	LAPITSKII M	29502	LE MARCHAND S	29128
KLEIN G T	31290	KRIEKE W A	30370	LAPPOINTE J A	29458	LEMBKE C	26473
KLEIN S	26279	KRIMM S	27288	LARSEN G B S	31923	LEME E G	23637
KLEMME A W	25889	KHISA A	24443	LANDNER G B S	26256	LEMESSE E H	30922
KLIMOV A	32302	KHISTENSEN H R	30602	LARGE J R	23848	LEMESSE E H	24246
KLINE A B	32191	KHROGERUS V E	27181	LA RIVERS I	28976	LEMETAYER E	27558
KLINGMAN D	24642	KHROMDIK G	24913	LARRALDE W	31026	LEMUNIER	27021
KLINGMAN G C	25625	KHONER K	31184	LARRANETA R L	29731	LEMMON A B	32566
KLOK J H	26435	KRUEGER G J	25309	LARRARD J DE	25725	LEMMON R S	24448
KLOKER N F	30262	KRUEGER W C	27328	LARRICK G P	29806	LEMMON R S	24914
KLOOS G J	32407	KHUEL W	30208	LARRIVA R DE	27557	LEMMON R S	25319
KLOT N H	26525	KHULSWIK A JR	29457	LARRIVA R DE	27592	LEMMON R S	25319
KLOTZ L J	28444	KRUSE E F	28314	LARSEN A F	25106	LEMON J M	31441
KLOTZ L J	26113	KRUSE H D	29933	LARSEN J C	27019	LEMONS PEREIRA A DE	24247
KLUBACH	26303	KHUYT W	29853	LARSEN J	31027	LEMONS PEREIRA A DE	24247
KLYNE W	27555	KRZYSZTALOWICZ A	32507	LARSEN L	31364	LEMPKE B J	29129
KNAPP J G	32303	KSANFOPULO O I	24444	LARSEN V R JR	24243	LENGELLE M	31197
KNAPP J G	32304	KUBIN R	27502	LAKSH H W	24089	LENSE K F	30039
KNEEN E	30917	KUCYNIK J	30449	LAKSH J E JR	27602	LEON JORDAN M	24772
KNICKERBOCKER M E	26840	KUDRIAVTSEV P N	27352	LAKSON G H	29589	LEONARD R O	26474
KNICKMANN E	23987	KUGLER K	23769	LAKSON H	31028	LEONE E	27805
KNIELY A	30263	KUHLMAN G W	28155	LAKSON R E	25516	LEONE E	27806
KNIGGE A FREIHERR	30672	KUHLMAN G W	28315	LAKSON R H	23961	LEONOV N	27105
KNIGHT R A G	28879	KUHN F	31933	LAKSON R H	24125	LEONOV N	27105
KNIGHT R L	26634	KUHN L	29326	LAKSON R H	24125	LEPELIER BEAUFONDS A	28318
KNIGHT W H	32565	KUHN R	27478	LAKSON R J	26257	25887	
KNIGHT W H	29434	KUIKEN K A	25748	LAKSSON W G	24312	LEPFESCHKIN W W	24449
KNIGHT W H	29455	KUITERT L C	24240	LA RUE C D G	24244	LEPESSE P	28701
KNIGHT W H	29456	KULASH W M	31195	LARUE P	30371	LEPINE P	27783
KNIGHT W H	29902	KULASH W M	29169	LASICHAK A G	27385	LERCH D	30961
KNIPPLING E F	28381	KULOOD L R	28696	LASKY H S	32509	LERENA G	27022
KNOLL C H	30918	KUMMER B	29125	LASSER S	27702	LE RICHE F J H	30826
KNOLL F	24238	KUMMER B	31190	LASSER S	27395	LERICHE J	29400
KNOPP F	27104	KUNHEN P	32193	LATAILLADE L J	30763	LERICHE J	29504
KNOTT J E	25511	KUNTSCHEH H	26305	LAEUDRESS H M	30920	LENER E	27023
KNOTT J H	27414	KUNTZ J E	26734	LATHAM E G	26533	LE ROCHERBROCHARD X DE	
KNOWLES P F	23976	KUNZ L J	28697	LATHROP H F	31703	31198	
KNOWLES P F	26841	KUPPERS G A	30138	LATHROP H R	26398	LEROY A M	31030
KNOWLTON G F	28311	KURTH E F	23846	LATHROP H R	24645	LESAR J C	29775
KNOWLTON G F	28973	KUYP E VAN DER	24360	LATHROP H B	27386	LESCHENKO A K	24835
KNOWLTON G F	28974	KYGER F A	25514	LATIMER H B	27387	LESLEY J W	25057
KNUTSEN E	28975	LA BEAUMELLE R A DE	26505	LA TOUCHE C J	23802	LESLIE W R	24987
KOBEL F	26331	LABOURIAU L G	28881	LATTI R	28208	LESNE E	30266
KOCH J	28447	LABOURIAU L G	28058	LATTING E T	25315	LESSLIE C	30546
	24564	LABOURIAU L G	27018	LAUMONT P	30921	LESTER J	25621
			32408	LAURANS H	32305	LETKI J	27535
			24241	LAURENCE B R	28012	LETTIERI E	27044
			24242	LAURENT R	28814	LEUBUSCHER C	31199
					29503	LEUKEL R W	23993



ITEM	ITEM	ITEM	ITEM
LEUPOLD U	24591 LONG W H	31936 MCALISTER L C JR	29854 MCNEELY J G
LEVAKOVIC A	26334 LONG W H	31937 MACALLISTER D I	25330 MCNEIL A
LEVAVASSEUR G	31157 LONGMIHE	32632 MACARLE A A	32058 MCNICOLL W
LEVENE H	28781 LONGMOHE	32102 MACAULAY INST FOR SOIL	26497 MCNUITY G
LEVERING S	23837 LONGNECKER T W C	25888 RES 25712	31297 MCNUITY G
LEVINE M P	27385 LONGWELL J H	25889 MCAULIFFE W S	26448 MCNUITT H
LEVINE M	29412 LONGWILL A	28183 MCBARRON E J	27751 MCNUITT S H
LEVINE M D	24450 LONGWILL A P	31104 MCBOND W	28158 MCNEILSON O M
LEVY E B	24451 LOMIS A P	27645 MCCALL G L	31425 MACRAE A J
LEWANDOWSKI L	27462 LOMIS C P P	32092 MCCALL T M	24916 MACSELF A J
LEWEY F H	29704 LOMIS C P P	32116 MCCALLAN S E A	25331 MACSELF A J
LEWIS A B	27106 LOMIS C P P	32175 MCCANDLESS E L	25332 MACSELF A J
LEWIS A J	27348 LOMIS W E E	32175 MCCANN E	25333 MACSELF A J
LEWIS C D	31848 LOMIS J K	24340 MCCARRELL J D	24608 MCWETHY J A
LEWIS D	31200 LOOSLI J K	26966 MCCARTHY R J	32203 MCWHORTER B
LEWIS F J	30267 LOANTT G	29734 MCCARTNEY G T	24004 MCWHORTER F P
LEWIS J C	26596 LONCH M	30434 MCCAULEY R H JR	24127 MCWHORTER F P
LEWIS L H	24313 LONCHER C C	29532 MCCAY C M	24128 MCWHORTER F P
LEWIS P	28817 LOND F T	29881 MCCAY C M	30554 MCWILLIAMS C
LEWIS R D	24452 LOND K A	28320 MCCCHIARELLO A	29657 MADDEN F W
LEWIS R W	31395 LOND K A	28321 MCCCLAY D R	27001 MADDEN F W
LEY A	31130 LOKENSSON A	25890 MCCLELLAN MRS B	29386 MADDEVER K D
LEY HERITIER P	32475 LORENZ F W	31294 MCCLELLAN W D	23640 MADGE C
LIOTE H J	29328 LORITZ J	29130 MCCLELLAND W	28109 MADISON L C
LIOTE H J	28702 LORTSCHER H	27025 MCCLELLAND W	30046 MADRAS BD OF REV
LI J C R	32521 LORTSCHER H	26921 MCCCLYMONT G L	30047 MADRAS BD OF REV
LIAN A	24386 LORSKY R F	27979 MAC COLL E D	30924 MADRAS BD OF REV
LIANDIER F	28818 LORSKY R F	28157 MCCOLLUM E V	31208 MADRAS BD OF REV
LIANDIER F	25089 LORSKY R F	31032 MCCONNELL E S	27028 MADSEN L L
LIBEAU C	26127 LOS SANTOS PANAMA FERIA	MCCOOL M M	28131 MADSEN L L
LIBOIS	29736 EXPOS DE LAS PROV	MCCOY J H	30317 MADUREIRA A DE
LIDOWITZKY J A	28454 CENTRALES 32199	MCCUBBIN E H	28600 MAGALHAES O DE
LICHTENSTEIN E P	28451 LOTHIAN N	MCCULLOCH A W	24005 MAGG C J
LIDDI COET A R	30980 LOTHIAN T M	MCCULLOUGH W B	25524 MAGGELL E
LIEBERT J L	31365 LOUCKS K W	MCCULLY J C	30677 MAGG L
LIEDERMANNE E	32594 LOUGHBOROUGH W K	30041 MCDERMOTT C D	28551 MAGGIO G DI
LIEFTINCK W A	25519 LOUGHLIN J	32057 MCDERMOTT C D	31578 MAGGROU J
LIEVANO A	30142 LOUGHRY F G	27107 MCDERMOTT N	23854 MAGROU J
LIEVANO A	28882 LOUI D	25651 MCDONALD C G	32636 MAGROU J
LIGER P	26006 LOUSTALOT A J	25058 MCDONALD J G	27372 MAGUIRE B
LIGHTFOOT L C	26382 LOUVAIN P	25672 MCDONALD J H	28983 MAHDHASSAN S
LIGHTSEY O	30300 LOUVRIER R	24573 MCDONALD M R	28984 MAHDHASSAN S
LIGTHELM H J	30040 LOUW P G J	29705 MCDONALD M R	24253 MAHESHWARI P
LIJSTEN H	29261 LOUES S L	28453 MCDONALD M R	26498 MAHE C
LILLIE M G	31456 LOUZADA JUNIOR D F	27603 MCDONALD M R	26080 MAHE D
LILLIE R J	31704 LOVE J E	27347 MCDONALD M R	29332 MAIER E A
LILLY V G	25107 LOVE J E	32308 MCDONALD M R	31398 MAIER E A
LILLY V G	24807 LOVE J E	32308 MCDONALD M R	23834 MAIER G
LILLY V G	26475 LOVVOORN R L	32308 MCDONALD M R	28326 MAIER J
LIMA A D A C	30296 LOVVOORN H L	24774 MCDUFFIE W C	25893 MAIER BODE
LIMBER D P	32412 LOW F W	32662 MCDUNOUGH J	27972 MAINE DEPT OF AGR
LIN C	27604 LOWDERMILK W C	26077 MACE D L	28570 MAINE DEPT OF AGR
LINDEBERG G	27707 LOWDERMILK W C	26078 MCELHANNEY T A	28455 MAINELLI M
LINDEGREN C C	24314 LOWE B	31327 MCELROY W D	23804 MAINS E B
LINDEGREN C C	24453 LOWE C D	28829 MCELROY W D	27290 MAITLS B
LINDEGREN C C	24533 LOWE J L	23803 MCELWEN E	26849 MAJILTON E A
LINDEGREN G	24533 LOWE J L	31201 MCELWEN E	32205 MAJORS E
LINDEN L VAN DER	23995 LOWE R C	31033 MCELELY H F	24254 MAJUMDAR G P
LINDENBERG H A	32306 LOWRY M T	30933 MACFIE D T	23736 MAKINS F K
LINDENBERG H A	30547 LOWRY R K	27329 MACGAHERAN J	23644 MAKSIMOVA A IA
LINDFORS T	24315 LOWRY R K	27429 MCGEORGE W T	25980 MAKACARNE F
LINDGREN D L	24316 LOWRY R K	27430 MCGILLAVRY D	31470 MALAISE V VON
LINDGREN D L	24316 LOZIER K D	30923 MCGINNIS J	25109 MALAN A H
LINDLEY H B	25108 LUBATTI O F	24166 MCGINNIS J	26923 MALARSKI H
LINDSEY A A	26613 LUBATTI O F	31994 MCGINNIS R I	24647 MALAYAN UNION
LINDSTROM D E	23996 LUCAS G B	24133 MCGOLDRICK F	24521 DRAIN AND IRRIG DEPT
LINDSTROM D E	28980 LUCAS G C	28544 MCGOUGH M L	26011 MALCOLMSON H
LINDSTROM J R	30827 LUCAS P S	30233 MCGOVERN J F	28327 MALDINI A
LINDUSKA J P	30489 LUCE W A	24091 MCGREGOR E A	28985 MALENOTTI E
LINDWALL J H	26399 LUCE W A	25069 MCGREGOR E A	25110 MALFATTO P
LINES C J	26007 LUCHINI R J	27289 MCGREGOR H D	28705 MALKIN B
LINERWEAVER H	32638 LUCIANI L A	30042 MCGREGOR J M	29263 MALLAMAIRE A
LINGEMAN E F	32101 LUCKER H A	32309 MCGUCKIAN A A	24006 MALLAMASE ORNAT M
LINK P	32198 LUCKEY T D	27799 MACHADO A DE O	31203 MALO JUYER A F
LINKE E	31031 LUCKWILL L C	24454 MCHARDY F	27108 MALTA D J
LINNE E	28883 LUDTKE M F	30599 MCHATA F	31709 WALTHA D J
LINNE E R	25534 LUDWIG M F	28251 MACHIN P	31347 WALTZAHN E FREIHERR VON
LINNE M B	24475 LUDWIG M F	30209 MACHIN P	26477 MALYSHEV S
LINSLEY E G	31293 LUEMO J M	27878 MACHIN P	28986 MAMBISH I E
LINZ AUSTRIA STAT KMT	31474 LUGAN M	30043 MACHIN P	30048 MAMELI L
LIPSHITS S IU	31705 LUGAN M	30044 MACINNE D G	31399 MAN E D
LISNOT G	28005 LUHAN M	24250 MCINTOSH I G	24001 MAN F
LISSOT G	27939 LUKANOV M A	29511 MCINTOSH R A	26524 MANAHAN W A
LITARDIERE R DE	28452 LUKE H H	26008 MCIVER H C	26589 MANALO P S
LITH J P VAN	26476 LUKER C	31397 MACK G L	32201 MANCHESTER JOINT RES COUN
LITTAU V C	23934 LULEY A W	25811 MACK J J	24775 MANCINI A
LITTLE J D	28703 LULL H H	31340 MACK J J	27738 MANDEL P
LITTLE R B	23644 LUNDA DE LA FUENTE C	31341 MACK J J	29333 MANDELLI M
LJUTIKOV K M	26919 LUNA ERCILLA C A	30373 MCKEY R	24077 MANDLER J
LIVINGSTON J E	24248 LUND B	30550 MCKEEN C D	25373 MANGUM L S
LIZGUNOVA T V	29030 LUNDEGARDH H	24455 MCKENZIE A W JR	23854 MANGUIT P
LLEWELLYN LORD	24249 LUNDEN W A	32200 MCKENZIE B W JR	25344 MANKS D S
LLORENS M A	30548 LUNDER A G	30268 MCKENZIE K J	26015 MANLEY R O
LLOYD E A	27138 LUNDER L J	28454 MCKENZIE P B	30981 MANLEY W B
LLOYD M D	26920 LUNDER R	26602 MCKENZIE W F	29205 MANLY H P
LLOYD N C	23825 LUNDQUIST E	28279 MCKENZIE W F	24989 MANN A J
LLOYD N C	25513 LUNG P H	24467 MCKEON C J	25062 MANN A J
LLOYD R W	32510 LUNSFORD W A	25800 MCKEON C J	25070 MANN A J
LLOYD THOMAS W	26688 LUNT H A	26736 MCKERRAS I M	23957 MANN H H
LO I	27876 LURASCHI A	26689 MCKINNEY H H	30555 MANN M G
LOADS F W	29031 LUSH J L	30551 MCKINNEY J H	23033 MANN W M
LOCHEN R	29179 LUTHE W T	27026 MACKLIN H P	28989 MANNING G
LOCKE S B	28597 LUTHI E	24915 MCKNIGHT T	26908 MANNING O O
LOCKE S B	27644 LUTHI H	30828 MCKOWIAK C	27755 MANSI W
LOCKART G P	26735 LUTTRELL C B	31469 MCKLACHLAN T	29610 MANSON P W
LOCKART V E	25520 LUTZ A	24456 MCLAN J	27754 MANSY W
LOCKWOOD S	26217 LYALL H G	29032 MCLEAN A J	29387 MANTLE L
LOCSIN C L	23851 LYLE C	31195 MCLEAN F T	29822 MANYPENNY G O
LODGE C	23997 LYMAN C M	32413 MCLEAN G M	32206 MANZENRIED F
LOEGERING W Q	26846 LYNCH D	30829 MCLEAN J G	31997 MANZINGO G
LOEWE F H W	32307 LYNCH J L	25622 MCLEOD A	27706 MAPA P L
LOEWEL E L	23860 LYNCH P B	25951 MCLEOD A N	27763 MASOOD M
LOGAN J H	31396 LYND J Q	25322 MCMANUS J J	28501 MASOOD M
LOGAN P	27877 LYNDON R	24641 MCMANUS H C	31711 MAKAMBA F D
LOHARA K S	29292 LYNESS W E	27431 MCMARTIN A	24129 MAKAMORASCH K
LOHWAG K	23852 LYNGAAS N C	25324 MCMILLAN B	26012 MAKARANGONI E P
LOMA J L DE LA	31706 LYNN G	28322 MCMILLAN W T	31204 MAKASCHINI F
LOMAX J W	29744 LYNN M	27432 MCMILLAN W N	25335 MAHLE L E
LOMASSON T	23998 LYONS D B	31963 MCMILLAN W N	26439 MAHCH E O
LONDON CHEM SOC	24646 LYONS CENTRE NATL DE	MCMURTREY J E	28466 MAKCHAL
LONG W H	28319 DEFENSE CONTRE LA GRELE	MCMURTON J E	30737 MAKCHATTERNE H J
	32567 LYSENKO T D	24317 MACNAUGHTON J	32088 MAKCHETTANO E
	31849 LYSENKO T D	32568 MACNAY C G	23855 MAKCHIONATTO J B
			32207 MACCOTTE L J



MAHACY L F	24522	MATTOS G I V	30706	MEYER E A	30738	MITRA J N	27013	ITEM
MAHRE F	29912	MATTUS G E	30706	MEYER J H	29909	MITTSCHERLICH E A	25902	
MAHRENGO N P	24255	MATZKE G B	30842	MEYER J H	24464	MITTEN H L JR	25980	
MAHRESCALCHI A	30049	MAUCHA R	24461	MEYER S L	24465	MIYAKE A	24676	
MAHGALEF H	23779	MAUER T C	24461	MEYER S L	27819	MIYAZAKI KEN JAPAN AGR		
MAHIAKULANDAI A	30436	MAULIK S	26083	MIALLET P	25528	EXPT STA	24919	
MAHINI G	25894	MAUME L	28708	MICHAELSSON G	25528	OBBS E C	26401	
MAHINUCCI M	23856	MAUNDER J C J	24462	MICHAUD M	25529	OBBS E C	26401	
MAHINUCCI M	24990	MAURITIUS CENT STAT	27187	MICHEL BACHER A E	28333	OCKER J	30053	
MAHINUCCI M	25059	29963	OFF	MICHENER C D	29035	MOCKLER A E	29781	
MAHINON J	26601	MAURON P	25898	MICHOT P	23859	MODE S	25339	
MAHISCO D F	31205	MAURY L	30925	MICHOT P	24778	MODIANOV A V	28023	
MAHKEE J E	27969	MAVOH J W	32571	MICKL J	29661	MOE L H	26719	
MAHKELL E L	25673	MAVROMOUSTAKIS G A	29534	MIDDLE	25675	MOEGLING	25530	
MAHKKHAM F S	27786	MAW A A	29534	MIDDLE	30679	MOGENSEN MT S	30212	
MAHKOVA K V	26739	MAY A	29823	MIDDLE	30679	MOGRIDGE J Y	28823	
MAKKS M	27029	MAY A	31108	MIDDLE	30679	MOIR R J	28055	
MAKKUS R	28457	MAY A W S	28988	MIDDLE	30679	MOLFINO J F	25676	
MAHON S H	31342	MAY A W S	29133	MIDDLE	30679	MOLFINO J F	25677	
MAHQUES A	30211	MAY T K	26589	MIDDLE	30679	MOLINA C	29135	
MAHQUEZ J Q A	26081	MAYA	25674	MIDDLE	30679	MOLINA R A	27933	
MAHQUEZ F	29707	MAYER D H	30143	MIDDLE	30679	MOLL	26592	
MAHRE C	24459	MAYER L	27188	MIDDLE	30679	MOLLETT J A	31915	
MAHRIATE MRS C R	24917	MAYER REINACH C	26258	MIDDLE	30679	MOLNAR I	24837	
MAHRIAN G F	27555	MAYNE J B	30559	MIDDLE	30679	MOLNAR I	24837	
MAHSH A F	27606	MAYO S C	32208	MIDDLE	30679	MOLNAR I	24837	
MAHSH F H	27475	MAYORAL DE ASENJO A	25527	MIDDLE	30679	MOLNAR I	24837	
MAHSH H	28061	MAXIM C	31519	MIDDLE	30679	MOLNAR I	24837	
MAHSH J T	30556	MAXTON J L	25088	MIDDLE	30679	MOLNAR I	24837	
MAHSH R E	29334	MAXWELL C W	28709	MIDDLE	30679	MOLNAR I	24837	
MAHSH R W	28328	MAXWELL C W B	30270	MIDDLE	30679	MOLNAR I	24837	
MAHSHALL SIR G A K	28706	MAXWELL M	26603	MIDDLE	30679	MOLNAR I	24837	
MAHSHALL SIR G A K	28707	MAZEK FIALLA K	27113	MIDDLE	30679	MOLNAR I	24837	
MAHSHALL G	28329	MEAD S W	27189	MIDDLE	30679	MOLNAR I	24837	
MAHSHALL H	30557	MEAD S W	27189	MIDDLE	30679	MOLNAR I	24837	
MAHSHALL J	27880	MEAGHER J F	29908	MIDDLE	30679	MOLNAR I	24837	
MAHSHALL J G	25895	MEANWELL L J	30282	MIDDLE	30679	MOLNAR I	24837	
MAHSHALL V C	26082	MEDICI M	28461	MIDDLE	30679	MOLNAR I	24837	
MAHSHALL W	29388	MEDICI M	28553	MIDDLE	30679	MOLNAR I	24837	
MAHSON J E	28602	MEDICI M	26741	MIDDLE	30679	MOLNAR I	24837	
MAHSON T B	31712	MEDICI R F	28332	MIDDLE	30679	MOLNAR I	24837	
MAHTELLI H L	29906	MEDLER J T	24008	MIDDLE	30679	MOLNAR I	24837	
MAHTENS H	29590	MEEHAN F	30135	MIDDLE	30679	MOLNAR I	24837	
MAHTI MOHERA A	27560	MEEHAN J H	30144	MIDDLE	30679	MOLNAR I	24837	
MAHTILATTI E	24776	MEEHAN J H	29808	MIDDLE	30679	MOLNAR I	24837	
MAHTIN C H	28603	MEEHAN J H	28635	MIDDLE	30679	MOLNAR I	24837	
MAHTIN G D	27940	MEEHOLZ F	24777	MIDDLE	30679	MOLNAR I	24837	
MAHTIN J	31851	MEHLE A	25751	MIDDLE	30679	MOLNAR I	24837	
MAHTIN J P	25896	MEHLICH A	24797	MIDDLE	30679	MOLNAR I	24837	
MAHTIN J W	29902	MEHTA T H	32313	MIDDLE	30679	MOLNAR I	24837	
MAHTIN K	24991	MEHTA V L	24797	MIDDLE	30679	MOLNAR I	24837	
MAHTIN L	24992	MEHTA Y H	32417	MIDDLE	30679	MOLNAR I	24837	
MAHTIN L M	32637	MEIJERS T	29419	MIDDLE	30679	MOLNAR I	24837	
MAHTIN L R E	24993	MEILLEUR C L E	28875	MIDDLE	30679	MOLNAR I	24837	
MAHTIN R	25897	MEILLON B D E	29420	MIDDLE	30679	MOLNAR I	24837	
MAHTIN R G	27030	MEINDL E	27433	MIDDLE	30679	MOLNAR I	24837	
MAHTIN R G	27031	MEINERS	31542	MIDDLE	30679	MOLNAR I	24837	
MAHTIN R P	24509	MEINERS	32638	MIDDLE	30679	MOLNAR I	24837	
MAHTIN T L	25183	MEINERS E P	30298	MIDDLE	30679	MOLNAR I	24837	
MAHTIN W J	30383	MEINERTZHAUSEN R	26166	MIDDLE	30679	MOLNAR I	24837	
MAHTIN W J	24007	MEISTER H E	27788	MIDDLE	30679	MOLNAR I	24837	
MAHTIN W J	24022	MEJIA A	28821	MIDDLE	30679	MOLNAR I	24837	
MAHTIN W J	27032	MELAMPY H M	32639	MIDDLE	30679	MOLNAR I	24837	
MAHTIN DE NICOLAS A	30558	MELCHIORI E	27190	MIDDLE	30679	MOLNAR I	24837	
MAHTIN LEAKE H	25624	MELICK A D E	28110	MIDDLE	30679	MOLNAR I	24837	
MAHTIN LEAKE H	29335	MELLO F P D E	28604	MIDDLE	30679	MOLNAR I	24837	
MARTIN RETORTILLO N	25750	MELLO J M D E	24463	MIDDLE	30679	MOLNAR I	24837	
MARTINENGHI G B	31206	MELLO LEITAO C D E	28822	MIDDLE	30679	MOLNAR I	24837	
MARTINEZ E	29731	MELLSOP K H	29403	MIDDLE	30679	MOLNAR I	24837	
MARTINEZ F C	30234	MELNICK J L	28462	MIDDLE	30679	MOLNAR I	24837	
MARTINEZ S	26218	MELNIKOV V A	30144	MIDDLE	30679	MOLNAR I	24837	
MARTINEZ S	31579	MELTON G C	27964	MIDDLE	30679	MOLNAR I	24837	
MARTINEZ MORENO J I	29470	MELVILLE K I	23642	MIDDLE	30679	MOLNAR I	24837	
MARTINI	25525	MENDES E J	31400	MIDDLE	30679	MOLNAR I	24837	
MARTY H	29635	MENDES DE GODOY J	26850	MIDDLE	30679	MOLNAR I	24837	
MAKUDARAJAN D	23857	MENDOZA I L	29337	MIDDLE	30679	MOLNAR I	24837	
MD COMM OF THE LAND OFF		MENDOZA GOITICOA E	32314	MIDDLE	30679	MOLNAR I	24837	
31998		MENEZES R B D E	32000	MIDDLE	30679	MOLNAR I	24837	
MAHZI G D E	32416	MENG C Y W	28463	MIDDLE	30679	MOLNAR I	24837	
MAHNER L	31035	MENGES G	28464	MIDDLE	30679	MOLNAR I	24837	
MASON H C	28987	MENGES G	27111	MIDDLE	30679	MOLNAR I	24837	
MASON H C	30318	MENGES J	30154	MIDDLE	30679	MOLNAR I	24837	
MASON L	32477	MENGUE J	25032	MIDDLE	30679	MOLNAR I	24837	
MASON L B	29907	MENON H B	27331	MIDDLE	30679	MOLNAR I	24837	
MASON W	32513	MENRAD	27389	MIDDLE	30679	MOLNAR I	24837	
MASQUELIER J	31207	MENRAD	27434	MIDDLE	30679	MOLNAR I	24837	
MASQUELIER J	31239	MENRAD	31209	MIDDLE	30679	MOLNAR I	24837	
MASS FEED CONTROL SERV		MENSIER P H	30050	MIDDLE	30679	MOLNAR I	24837	
30437		MENSIO C	30051	MIDDLE	30679	MOLNAR I	24837	
MASS FERT CONTROL SERV		MENSIO C	28784	MIDDLE	30679	MOLNAR I	24837	
26122		MENZIES G C	29244	MIDDLE	30679	MOLNAR I	24837	
MASS STATE COL		MENZIES G C	28966	MIDDLE	30679	MOLNAR I	24837	
POULTRY DISEASE CONTROL		MENZIES G C	25899	MIDDLE	30679	MOLNAR I	24837	
LAB	27787	MENZIES G C	30319	MIDDLE	30679	MOLNAR I	24837	
MASS STATE GRANGE	32311	MENZIES G C	32001	MIDDLE	30679	MOLNAR I	24837	
MASS STATE GRANGE	32312	MENZIES G C	32104	MIDDLE	30679	MOLNAR I	24837	
MASSEE A M	28330	MENZIES G C	31713	MIDDLE	30679	MOLNAR I	24837	
MASSEE A M	28331	MENZIES G C	29379	MIDDLE	30679	MOLNAR I	24837	
MASSEE A B	32641	MENZIES G C	26335	MIDDLE	30679	MOLNAR I	24837	
MASSEE G F	29471	MENZIES G C	31495	MIDDLE	30679	MOLNAR I	24837	
MASSEE L M	29474	MENZIES G C	25336	MIDDLE	30679	MOLNAR I	24837	
MASSEIEU H G	32514	MENZIES G C	24918	MIDDLE	30679	MOLNAR I	24837	
MASSTOT R	31999	MENZIES G C	31543	MIDDLE	30679	MOLNAR I	24837	
MASSTOT R	28884	MENZIES G C	29299	MIDDLE	30679	MOLNAR I	24837	
MASSTOT R	25060	MENZIES G C	25900	MIDDLE	30679	MOLNAR I	24837	
MASUROVSKY B I	30374	MENZIES G C	30763	MIDDLE	30679	MOLNAR I	24837	
MASUROVSKY B I	30375	MENZIES G C	27789	MIDDLE	30679	MOLNAR I	24837	
MATALLANA VENTURA S	29560	MENZIES G C	27332	MIDDLE	30679	MOLNAR I	24837	
MATHEA T	26400	MENZIES G C	23858	MIDDLE	30679	MOLNAR I	24837	
MATHER E J	30135	MENZIES G C	28364	MIDDLE	30679	MOLNAR I	24837	
MATHERS W	29132	MENZIES G C	23780	MIDDLE	30679	MOLNAR I	24837	
MATHERS W	30297	MENZIES G C	32059	MIDDLE	30679	MOLNAR I	24837	
MATHERS F P	29778	MENZIES G C	26134	MIDDLE	30679	MOLNAR I	24837	
MATHERS H W	28458	MENZIES G C	31298	MIDDLE	30679	MOLNAR I	24837	
MATHIS M	28459	MENZIES G C	32315	MIDDLE	30679	MOLNAR I	24837	
MATHIS M	28459	MENZIES G C	27191	MIDDLE	30679	MOLNAR I	24837	
MATHON C C	28512	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATHUR R S	24183	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATKIN T D	24460	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATOLTSY A G	29807	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATOLTSY A G	28785	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATOS A A P D E	28820	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATOS A A P D E	30376	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATSENTOV D I	30395	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATSEVICH S	25526	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATSON W E	29336	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATSUMOTO T	29571	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATTHEWS J A	24130	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATTHEWS J A	26740	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATTHEWS J A	32478	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATTNER M E	24550	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATTSON H G	23738	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	
MATTOS A D E	29779	MENZIES G C		MIDDLE	30679	MOLNAR I	24837	



ITEM		ITEM		ITEM		ITEM	
MOROCCO SERV DE L HORT	MYERS W I	31716	NEW SO WALES DEPT OF	NORTHERN IRELAND MIN OF			
28711	MYERS W I	31717	AGR-CONT	AGR	27888		
MOROKOVSKII S F	MYRICK N	30245	ENT BR	NORTHERN IRELAND MIN OF			
28345			ENT BR	AGR	27889		
MOROFFSKY W F	NABOKOV V	29138	ENT BR	NORTHERN IRELAND MIN OF			
26882	NADARAJAH S	30564	NEW SO WALES IRRIG RES	AGR	29508		
MORRIS L	NAEGELE F	31718	EXT COM	NORTHERN RHODESIA	29965		
MORRIS W E	NAETTER C	26738	NEW SO WALES HOMNEY	NORTON L J	29005		
MORRISON A E	NAF A	27716	BREEDERS ASSOC	NORTON L J	31302		
MORRISON B Y	NAGARAJAN E R	27653	N Y FOTTON EXCH	NORWAY STATIS	31302		
MORRISON B Y	NAGEL C M	27198	N Y FIRMES	SENTRALBYKA			
MORRISON E M	NAGOTTE J C	24015	N Y STATE COL OF AGR				
MORRISON H A	NAGORE D	29566	DEPT OF AGR ECON				
MORRISON V L	NAIK K G	27504	NEW ZEAL DAIRY BD				
MORRISON GODFREY P W	NAIR J H	31215	NEW ZEAL DEPT OF AGR				
29136	NAJAND A	29914	28477				
MORRIS R M JR	NAJJAR H A	31217	NEW ZEAL DEPT OF AGR				
MORSE E V	NAJJAR H A	24602	31721				
MORSE R	NAJJAR H A	24652	NEWCOMB D A				
MORSTATT H A	NAJJAR H A	24996	NEWCOMER E J				
MORTENSON W P	MANAVATI S R M B	28614	NEWMAN L H				
MORTENSON W P	MANANCE J F	31859	NEWSMAN J E				
MORTIMER D G	NANTA	24474	NEWTON A C				
MORTON F A	NAKASIMHACHAR S G	27395	NEWTON W				
MORTON R J	NAKASIMHACHAR S G	24260	NIBLETT M				
MORTON W E	NAKASIMHACHAR S G	24779	NICARAGUA RECAUDADOR				
MORVILLE K	NAKASIMHACHAR S G	30930	DE ADUANAS				
MOS U DE	NAKAYANA RAO P L	29040	NICHOL C A				
MOSCOW OBSCHESTVO ISPYTA	NAKAYANAN E S	26138	NICHOLLS W H				
TELEI PHIRODY	NAKAYANAN T R	32317	NICHOLLS W H				
MOSE G	NASH D W	24574	NICHOLLS W H				
MOSELEY M F JR	NASON A	24780	NICHOLSON A				
MOSELEY M E	NASSO A U I	31368	NICOL L				
MOSER L	NATAL SOC FOR THE PRES		NICOLAI E				
MOSER H E	OF WILD LIFE AND NAT		NICOLAS G				
MOSKEY H E	RESORTS	28825	NIELSEN A C				
MOSNA E	NATESAN M S	30565	NIELSEN B F				
MOSS K	NATIONAL ASSOC OF COOP		NIELSEN H				
MOSS L C	31545		NIELSEN H				
MOTLEY M C JR	NATIONAL ASSOC OF COOP		NIELSEN O				
MOTLEY W A	32318		NIELSEN S				
MOTTEN H H	NATIONAL ASSOC OF RADIO		NIELSEN F J				
MOTTAM V H	FARM DIR	32216	NIESCHLAG F				
MOTTIS G	NATIONAL ASSOC OF WOOL		NIGAM L N				
MOTZ F A	MFRS	30566	NIGERIA LEG COUNCIL				
MOUGEOT M	NATIONAL CANNERS ASSOC		NIKELL L G				
MOUL E T	29783		NIKITIN V L				
MOULE G H	DIV OF STATIS	30831	NIKITIN V L				
MOUNFIELD J D	NATIONAL COTTONSEED	30831	NIKOLAIDOU N I				
MOUNTFORD D	32121		NILSSON A				
MOURIQUAND G	NATIONAL COUNCIL OF WOOL		NILSSON A				
MOUTTE P	SELLING BROKERS OF		NILSSON A				
MOUTIZ D	AUSTRALIA	30567	NILSSON A				
MOYSE A	NATIONAL GRANGE OF THE		NILSSON F				
MRK E M	PATRONS OF HUSB	32320	NILSSON LEISSNER G				
MRK E M	NATIONAL GRANGE OF THE		NISBET M				
MRK V G	PATRONS OF HUSB	32321	NISHIMURA W				
MUDRA A E	NATIONAL JOINT INDUS		NISHIMURA W				
MUELLER C D	COUNCIL FOR THE FLO	30931	NISBURY C H				
MUIR M S	ILLINGO INDUS	32319	NITSCH J				
MUIR R M	NATIONALE COOP RAO	32322	NIVEN L A				
MUIR R W	NATIONALE COOP RAO	32323	NIXON W M				
MUIRHEAD THOMSON R C	NATIONALE COOP RAO	24696	NIXON W M				
28886	NAYAK H K	32324	NIXON W M				
MUJICA J	NAYAK N V	28826	NOBLE I				
MUKHERJEE S	NAYAK K K	25652	NOBLE I				
MULDER H	NAYAR S L	24967	NOBLE I				
MULDREW H	NAZARIAN E A	23743	NOBLE M				
MULHERN T D	NEAL M C	24610	NOBLE R L				
MULHERN T D	NEAL O R	30743	NODDER C R				
MULLER E	NEALE E G	29964	NODDER C R				
MULLER H	NEBR DEPT OF AGR AND INSP		NODINE E H				
MULLER O	NEBR DEPT OF AGR AND INSP		NODLAND T R				
MULLER O	32575		NODLAND T R				
MULLER O	NEBR DEPT OF AGR AND INSP		NOE J				
MULLER R	NEBR DEPT OF AGR AND INSP		NOER O J				
MULLER DERFRADAS R	NEDERLANDSCHE DENDROL		NOGUE C R				
MULLICK D N	VER	23646	NOIROT C				
MULLICK N P	NEEL L R	29620	NOLAN G C				
MULLIGAN B O	NEELY J W	24697	NOLAN J L				
MULLINS T	NEF U	24397	NOLAN J L				
MULRENNAN J A	NEGHE A	28993	NOLAN J L				
MULVEY R R	NEGRE E E	30056	NOLAN T J				
MUMA W H	NEGRE E M	25532	NOLL C J				
MUMFORD D C	NEGRETE LABENNIE C	28474	NOLL C J				
MUNGER G D	NEGRO F	29340	NOLL C J				
MUNGOMERY R W	NEHER B H	27792	NOLL C J				
MUNN M T	NEIRINCKX G	24575	NOLL C J				
MUNN M T	NEISWANDER C R	28713	NOLL C J				
MUNOZ ZUNIGA F	NEISWANDER C R	28994	NOLL C J				
MUNRO H K	NEISWANDER R B	28606	NOLLA J A B				
MUNRO J A	NEKRASOV V I U	29428	NORDELD T S				
MUNRO J A	NEKRUTENKO A	27762	NORDELD T S				
MUNSON S C	NELSON C I	24698	NORDELD T S				
MUNTIAN H S	NELSON K E	23866	NORDMAN O				
MURAIANA S J	NELSON L B	25903	NORDSKOG A W				
MURAYANA T	NELSON M L	24781	NORDSTROM L				
MURBACH R	NELSON P	29915	NORMAN A G				
MURCHISON C T	NELSON R	24016	NORMAN J T				
MURDOCK H	NELSON R R	24017	NORRIS L C				
MURGEL A A	NELSON R M	28337	N C DEPT OF AGR				
MURLEY W R	NELSON R M	32217	STATE SEED LAB				
MURPHY O	NELSON R M	32480	N C STATE PLAN BU				
MURPHY H C	NELSON V M	27396	N C INST OF STATIS				
MURPHY H C	NEH G	32009	32719				
MURPHY H F	NESSLER A E	30384	NORTH CENT FARM MANGT EXT				
MURPHY R G	NESTLER W B	25679	COM				
MURRAY O L	NETHERLANDS COMM VOOR EN		NORTH CENT FARM MANGT EXT				
MURRAY J E	ONDERZOEK NAAR NIEUWE		COM				
MURRAY W G	LANDBOUWK MOGELIJKHEDEN		N DAK DIV OF COOP				
MURTI K S	26015		NORTHEASTERN WOOD UTIL				
MURTI K S	NETHERLANDS MIN VAN LAND		COUNCIL				
MURTI V N	VISSERIJEN VOEDSEL						
MUSIL A F	VOERZIJENIG 31719						
MUSIL A F	NETTEL F R	28827					
MUSKETT A E	NEUBAUER E	27941					
MUSPRATT V	NEUMAN A	27561					
MUSSETT A T	NEV STATE APIARY COMM						
MUTICA C	28476						
MUTTOO R N	NEVENS W B	26742					
MUZIK T J	NEVOT A	28162					
MUZUKIN V S	N J AGR EXPT STA	25904					
MYERS J	NEW SO WALES DEPT OF AGR						
MYERS W I	23867						
MYERS W I	26440						
MYERS W I	24472						
MYERS W I	25765						
MYERS W I	21715						
MYERS W I	29784						
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							
MYERS W I							











ITEM		ITEM		ITEM		ITEM	
ROSS D G	27439	SABNIS T S	24797	SCHALM O W	27220	SCOTT G A	32722
ROSS D G	27438	SADANA J C	24511	SCHANDERL	25768	SCOTT G W JR	29571
ROSS I C	30585	SADLER G	24930	SCHANTZ H	26451	SCOTT L	25393
ROSS L B	30692	SADUN E H	27802	SCHAPPE S	30588	SCOTT M J	26093
ROSS O B	26719	SADUN E H	27803	SCHARFF D	28841	SCOTT T W	28499
ROSS R	24862	SAGRELYA K P	26413	SCHARFF J	25933	SCOTT W M	31233
ROSS R H	26990	SAHAI R	26337	SCHATZ S J	25785	SCOTT W M	29515
ROSSE S H	25692	SAID M R	26414	SCHAUDER R	31444	SCOVILLE G P	30777
ROSSELL C S C	28896	SAILER R J	28298	SCHEDL K E	28736	SCOWINGOUR C F	30591
ROSSI P	26864	SAINT JOHN J L	30806	SCHERER G	25005	SCRIMSHAW N S	27809
ROSSITER R C	24907	SAINT QUENTIN M	26189	SCHERMEL M P	23664	SCRUGGS C G	27046
ROSSKAM W M	30064	SAINT QUENTIN M	29514	SCHEMP P K	29615	SCUDDER F	29747
ROSSMAN C	24508	SAITO S	26226	SCHENCK H E	31750	SCUDDER F	29790
ROST C O	25927	SAKK K	29715	SCHENK G	24515	SCULLER S	27905
ROTH H	29737	SALA G	26872	SCHERP H W	27970	SCULLER S	29924
ROTH L M	28897	SALA ROCA E	24663	SCHERRER W W	31341	SCULLEN H A	29046
ROTH L M	28898	SALA ROCA E	31745	SCHIERBECK A	28497	SCABRA C A C	29779
ROTHERMEL F	31472	SALA ROCA E	31879	SCHILDWACH W	31312	SEARLE G H	30305
ROTHPLETZ M W	29640	SALAZAR LOPEZ D	32487	SCHILLE W H	29923	SEARLS E M	32581
ROTHSCHILD LORD	28067	SALUDIAS M O	23662	SCHILZ G B	32091	SEARLS E N	31313
ROTTINI O T	24581	SALES E K	27356	SCHINCKEL P G	28069	SEARS P B	26094
ROTLANT DE FRANCH M		SALINAS J	25660	SCHINDLER	30693	SEBELIN C A E	24046
ROTTENSTEN J	32427	SALISBURY S R E	32663	SCHINELLI E	27221	SEBRELL W H	27404
ROTTIN B	26262	SALISBURY G W	26966	SCHINKOWITZ A	28356	SECANELL J	26876
ROTTIN B	26359	SALISBURY G W	26987	SCHINNT C	26415	SECKMAN M C	25394
ROTTIN B	26486	SALISBURY G W	26988	SCHIPPER E C	29792	SECKMAN M C	25395
ROUMQUIERE F	27490	SALISBURY P J	26343	SCHLEH E J	32705	SEEDORF W	24444
ROURKE F	25386	SALOMONE G	31227	SCHLEHUBER A M	24279	SEEDORF W	32237
ROUSCHAL W	28999	SALUNKE B K	27216	SCHLIER T	31881	SEELY J C	25934
ROUSE L W	32428	SALVATO T M	31228	SCHLOGL A	29717	SEELY J G	25935
ROUSSEAU	28495	SALVETTI A	31339	SCHLOGL A	29789	SEELY C I	25631
ROUSSEAU J	23658	SAMISCH R L M	25064	SCHLOTTHAUER C F	27403	SEGUIN G A	26452
ROUSSEAU J	23659	SAMMIS J L	30396	SCHLOTZHAUER E O	29854	SEGUINOT ROBLES P	25558
ROUSSEAU J	23660	SAMMONS K L	32429	SCHLOTZHAUER E O	30859	SEHGAL B R	28971
ROUSSEL L	26021	SAMPIER J	29296	SCHLUTER F	30162	SEIFERLE E	27571
ROUSSEL L	30748	SAMPSON S	25388	SCHMAUTZ J E	26329	SEIXAS C A	28737
ROUSSY L	25693	SAMUELS C	30837	SCHMID G	25006	SEIXAS C A	30067
ROUSSY L	25694	SAMUELS E G	30196	SCHMID G	28166	SELY H W	30163
ROUX J	25729	SAN MARTIN M	26941	SCHMIDT A	30226	SELF R	24445
ROWAN P A	26181	SAN MARTIN M	28031	SCHMIDT A	30227	SELIVANOV A	29516
ROWE R	26225	SANCHEZ BOTIJA C	27804	SCHMIDT C M	24331	SELL O E	25936
ROWELL J B	24041	SANCHEZ MARROQUIN A	30223	SCHMIDT H W	32579	SELLARS G	28167
ROWLAND F E	29641	SANCTUARY W C	27902	SCHMIDT H W	32580	SELLERS A F	27224
ROWLAND F E	29642	SANDAY W E J	25389	SCHMIDT J	27116	SELLERS W P	24665
ROWLAND J L	29922	SANDBERG A M	32430	SCHMIDT L	30694	SELLERGREEN H	29616
ROWLES W	25730	SANDERS G P	30224	SCHMIDT L	26111	SELLSCHOP J P F	25559
ROWNTREE L	24929	SANDERS H W	32234	SCHMITT J B	28795	SELTZER R E	30772
ROWNTREE L	25387	SANDERS M	24512	SCHMITT L H	28765	SELTZER R E	30863
ROYAL ULSTER AGR SOC	26932	SANDERS P D	31459	SCHMITZ G	29158	SEMENTOVSKAIA N M	30449
ROYAL ULSTER AGR SOC	32231	SANDERSON C J	27570	SCHNACK F	29159	SEN A R	32723
ROYCE R	29867	SANDERSON C J	27217	SCHNEGG H	30066	SEN D L	30592
ROYER H K	27365	SANDERSON C J	28026	SCHNEIDER C L	29160	SEN K C	30164
RUBBER RES INST OF		SANDERSON C J	28068	SCHNELLE G B L	26874	SEN GUPTA G C	29040
MALAYA 31345		SANDERSON J W	27944	SCHNELLE G H	28357	SEN GUPTA R	30593
RUCAREANU N	26410	SANDERSON R W	32235	SCHNETZLER E E	27662	SENEVET G	28899
RUCH L A H	27480	SANDHUSE H A	27043	SCHNETZER J G	31055	SENEVET G	28900
RUDE	26760	SANDIFER N	29860	SCHOB K	31055	SENGUN A	28845
RUDNICK A W	30303	SANDMO J K	26227	SCHOB K	28358	SENSE	26695
RUDOLF P O	26411	SANDO B	31311	SCHOENFELD S	31406	SENTEX J	28099
RUDOLPH W	26327	SANFORD H E	30944	SCHOENING H W	26837	SERANDOUR P	32238
RUDOLPH W	26328	SANFORD H E	31746	SCHOENING H W	26875	SERGEANT E	28617
RUDOLPH W	26328	SANFORD H E	31747	SCHOFF L H	32026	SERGEANT E	28618
RUEHE H A	26501	SANJUAN J	28496	SCHOFFELMAYER V H	30589	SERGEANT E	32582
RUEPPEL E H	29643	SANKARAIAH K	24798	SCHOFFELMAYER V H	30590	SEKLACHUS R	26487
RUFF G A	26623	SANNABHAUTI S K	24859	SCHOFFIELD M	26263	SEKNA DIAZ C DE LA	24517
RUFFALDI G B	25121	SANSOME F W	24568	SCHOFFIELD M	26509	SERPIERI A	31460
RUFFINELLI A	29045	STA ROSA J	31748	SCHOFFIELD W R	26416	SERPIERI A	31500
RUGGERI G	24042	SANTAMARIA PLAYA R		SCHOLLES J C	27705	SERPIERI A	32028
RUGGERI G	24043	24277	23748	SCHOLL M L H	27045	SERR E F	24170
RUGGERI P R	29746	SANTAPAU H	24799	SCHOLLEN L G	29161	SEHRA J A	24280
RUGGERI S	32339	SANTALLA N R	32686	SCHONBERG	31106	SERRE P	30648
RUHL F E	27724	SANTAMAURO L	30225	SCHONHOLZER KECK M	27807	SERS J	29460
RUILLER R	30586	SANTOS I A DOS	30397	SCHOOF H F	29273	SERS J	29675
RUIZ J R	30982	SANTOS I A DOS	30398	SCHOPMEYER C S	26605	SERVANT M	31234
RUIZ MARTINEZ C	31138	SANTOS I A DOS	24582	SCHOPP R	28657	SERVISS G	24801
RUIZ SANCHEZ A	23661	SANTOS RUIZ A	24583	SCHORK H	30948	SESSIONS K O	25396
RUIZ SANCHEZ F	31443	SANTOS RUIZ A	24583	SCHOW F	24169	SETH T G VON	27509
RUMBOUT YANES B	32648	SANZ F	29596	SCHRADE G	28268	SETZER J	25804
RUMILLY N	28009	SANZ EGANA C	31054	SCHRADEL E	27224	SEVASTOPULO D G	29162
RUNEFORS O	26761	SAPHIR O	31898	SCHRAM J R	29374	SEVASTOPULO D G	30163
RUNEFORS O	27041	SAHASQUETA P A DE	27965	SCHRAM J R	29484	SEVERIN H C	28846
RUNEFORS O	28113	SAKBACH L N	27903	SCHRECK A G	28987	SEVERINGHAUS C W	28847
RUNNELS H A	24071	SARKAR B C R	27307	SCHREIBER W R	30695	SEVERO O P	28901
RUNNELS R A	26870	SARLE C F	30445	SCHREIN W G	30949	SEVERSON H	29348
RUNNING C	31053	SARLE C F	32720	SCHREIN W G	30953	SEVERSON H	31501
RUPEL I W	27115	SARLE C F	32721	SCHREUDER P J V D M	28144	SEVILLA N S	26933
RUPP E	25928	SAKTORIO A	31749	SCHROCK O	24323	SEVILLA N S	30228
RUPP E	26166	SAKTORIO C R	24664	SCHROEDER C R	27222	SEVRETAING	32854
RUPP E	28197	SAKATCHEWAN BUR OF	24513	SCHROEDER P A	27904	SEWELL B	28500
RUPP E	29570	SAKATCHEWAN COOP PROD	26228	SCHROEDER R A	25501	SEXTON W A	28228
RUPP J	31742	SATINA S	26228	SCHROEDER W T	24001	SEYMOUR W G	29199
RUPP R G	26092	SATTERTHWAIT A F	24278	SCHROEDER W T	24044	SHACKELFORD P M	27482
RUSCHEL E	24661	SATTERTHWAIT A F	28355	SCHROTER FREIHERR VON	26310	SHANDS H L	30889
RUSH H G	23747	SAUCHELLI V	28735	SCHUBART O	28616	SHANE P	29215
RUSK H P	32232	SAUER H F G	25930	SCHUELKE H W	30399	SHANK N	29597
RUSSELL B	32023	SAUER H F G	28673	SCHUM W VON	31230	SHANK N	29676
RUSSELL B	32024	SAUER H F G	29000	SCHULM J	31231	SHANK R E	32488
RUSSELL SIRE J	25929	SAUERLAND T W	25931	SCHULM J	31231	SHANKARMURTHY P	23666
RUSSELL SIRE J	32233	SAURAT P	27243	SCHULMAN A H	28498	SHANNON J L	28096
RUSSELL J S	24167	SAUTTER J H	27244	SCHULMANN J	30950	SHAPOVALOV I A	31860
RUSSELL M S	31743	SAVAGE A	27218	SCHULTZ J	28217	SHAPPIRO D G	29047
RUSSELL R S	24796	SAVATIER R	32025	SCHULTZ M	28877	SHARMA U S	29001
RUSSWURM A D A	24509	SAVELL M	30587	SCHULTZ U K T	30400	SHARMA P L	28501
RUST J H	31091	SAVIANO M	27805	SCHULZ W E	24516	SHARMA V N	24561
RUST L O	29701	SAVIANO M	27806	SCHULZ FALKENHAIN H	28010	SHARVELLE E G	25397
RUSTEN F	30161	SAVIDGE E T JR	31499	SCHULZ FALKENHAIN H	30247	SHATALOV P I	30839
RUTH E	26136	SAWADA K	25390	SCHUMY B	31586	SHATTUCK C B	27597
RUTHERFORD D M	31878	SAWYER C H	27969	SCHURCH W	31551	SHAW A O	32076
RUTLEDGE J P	30834	SAWYER W E	32236	SCHUSTER C E	23861	SHAW A O	26983
RUTTNER F	24510	SAXBY S H	24800	SCHUSTER M L	23817	SHAW A O	27237
RUUS P	30065	SAXTON R	29752	SCHUSTER W L	24045	SHAW B W	29571
RYALL A L	30786	SCHAFER C B	25391	SCHWAB C R	27488	SHAW B W	27410
RYALL A L	30835	SCACCAGLIA R	24514	SCHWAIM W F	31882	SHAW R	25937
RYAN B	24662	SCARBOROUGH R B	27219	SCHWANNITZ F	24324	SHAW J	29002
RYAN T K	26871	SCARSETH G D	28560	SCHWARTZ S M	29405	SHAW J	29272
RYDBECK V A	29625	SCATTERDAY J E	25932	SCHWARZ F	27499	SHAW J G	30165
RYDE H	27042	SCATTOLIN L L	26873	SCHWARZ W	27223	SHAW J H	30165
RYGG G L	30715	SCATTOLIN L L	32431	SCHWEIGERT B S	27115	SHAW J N	29010
RYGG G L	30836	SCCHAAL W J	30304	SCHWEIGERT B S	27808	SHAW L	38466
RYMER W	25695	SCHACHMAN H K	31229	SCHWEITZER T R	30201	SHAY J R	27225
RZHENKOV E F	25980	SCHAEFER H C	30224	SCHWERTFEGER F	28378	SHAY J R	24802
RZHENKOVSKII L	31744	SCHAEFER W F JR	30946	SCHWETZ J	28378	SHCHERBOLINA E S	30840
SA F V DE	30376	SCHAEFER W F JR	24144	SCHWITZER M K	28378	SHCHERBOLINA V I	24841
SA F V DE	30395	SCHAEFER W F JR	27555	SCOFIELD H T	30838	SHEA L	29425
SAATGUTSTELLE LANDES	26412	SCHAEFFNER L W	26762	SCOTLAND DEPT OF AGR	31232	SHEFAHAN H B	32105
STAMPT URESOEN		SCHAIK D F VAN	27044	SCOTLAND SCOTTISH LAND	24412	SHEBALIN I U	29517
		SCHALL E D	25631	COURT 32027		SHFOD C K	30951
			30947	SCOTT C L	32666	SHEEHY E J	28027
			29716	SCOTT C W	26655	SHEFFIELD C W	31314
			26146	SCOTT O	26655	SHEFT B B	32524
					26655	SHELDON V L	24518
					26655	SHELDON W	31057







ITEM	ITEM	ITEM	ITEM
STILES J A	21762 SWANSON C L W	32064 TESCHNER C A	25432 TOPF E
STIRLING L W	27118 SWANSON G	32245 TEST R J	20754 TORGERSON E F
STITT L L	25422 SWANTON M K	31238 TESTA E	25699 TORGERSON O W
STIVER E J	29004 SWARTZ H G	31334 TESTA E	25700 TOWP A
STLUKA E	24936 SWARTZBERG I	25126 TESTA E	30078 TORRE BUENO J R DE LA
STOCKBURGER S	31461 SWEADNER W R	30697 TEUSCHER L G	29424 TORRE BUENO J R DE LA
STOCKBURGER S	31462 SWEDEN LAWS STAT ETC	39168 TEVENOT H	23669 TORRE BUENO J R DE LA
STOCKER O	32107 SWEDRUP I	27911 TEX POULTRY IMPR ASSOC	29932 TORREMS PASTOR A
STOCKHOLM KONJUNKTUR INST	24584 SWEENEY E	27911 TEX RES FOUND	27411 TORRES LOPEZ DE HARO C
STOCKING G W E	32432 SWEZEY O H	29930 TEX RES FOUND	32708 TOSATTI H M
STODART J A	29167 SWIFT H H	25074 TEXTE	30773 TOSATTI H M
STODDARD C H	29147 SWIFT J E	28218 THAIN E M	31171 TOTLEBE A S
STODDARD C H	26330 SWIFT R W	28298 THAMES W H	28753 TOTL L
STODDARD E D	26331 SWINGLE W T	24151 THEBIS R	29449 TOTL S J
STODDARD E M	27759 SWINK E T	24529 THELEN K A	27312 TOTLENHAM C E
STODDARD E M	24083 SWISHER E M	23756 THEVENOT R	26940 TOULOUSE J
STOECKLER J H	24149 SWITZER W F	29333 THIBAUT C C	27947 TOUMANOFF C
STOENNER H G	26421 SYKES J F	28853 THIBAUT C C	28012 TOURTE R
STOESZ A D J	26859 SYLVESTER E S	30276 THIBAUT C C	28024 TOUSSAINT A
STOFBERG F J	26098 SYMONS C P	27057 THIBODEAU R	30171 TOWARBYSTWO HODOWLI KONIA
STOR R	29167 SYMONS JEUNE B H B	29006 THIEM H	23890 TOWERS W K
STOLL C	32243 SYVERTON J T	24550 THIEULLOY E DE	25433 TOWERS W K
STOLL R	30230 SZULC T	27970 THIEULLOY E DE	28013 TOWLE D S
STOLL R	27738	32117 THIMANN K V	24345 TOWNES H K
STOLP A	30078 TABARELLI NETO J F	27578 THIMANN K V	24360 TOWNSEND B F
STOLTE F	32033 TABER G B	25428 THIMANN K V	24407 TOXOPEUS H J
STOLTZ R R	31349 TABOR G E	27058 THOM C	24069 TOXOPEUS L J
STOLTZ R	27119 TAGLE E C	27059 THOM C S	25771 TRACEY M V
STONE A	28852 TAGLE E C	27236 THOMANN W	32677 TRACEY M V
STONE E A	28508 TAGLE E C	27579 THOMAS B	30406 TRACY P H
STONE E C	27235 TAI E A	25040 THOMAS C A	24587 TRACY P H
STONE I	30075 TAKAHASHI H	28854 THOMAS G C H	24056 TRACY P H
STONE M W	28662 TAKEUCHI K J	29053 THOMAS G W	32709 TRANS JORDAN DIR OF LANDS
STONE P C V	28945 TALBERT T J	25429 THOMAS P H	28636 AND SURVEYS 32036
STONE P V	25039 TALLARICO G	24808 THOMAS P H	25009 TRAVANCORE DEPT OF AGR
STONE R C	32885 TALLEUR C	32527 THOMAS P H	25076 TRAVASSOS FILHO L
STORMER K	31764 TALWAR R C	31721 THOMAS R B	25434 TRAVASSOS FILHO L
STOSS H	25786 TAMARCHENKO M E	25564 THOMAS R G	24347 TRAVASSOS FILHO L
STOUT C	30843 TAMBLYN N	24530 THOMAS S B	27237 TRAWINSKI A
STOUT G J	30193 TANABE T	26511 THOMAS W P	30231 TREFNY L
STOUT R W	31890 TANGANYIKA TER DEPT OF	26966 THOMAS W P	25949 TREFNY L
STOVER H E	29354 VET SCI AND ANIM HUSB	28509 THOMPSON A	32433 TRECCI G
STOVER H E	29677 TANNER J G	28627 THOMPSON C R	24587 TRELOGAN H C
STOVER H E	29679 TANNER V M	28627 THOMPSON G B	25010 TREMBLAY F T
STOVER H E	29929 TANNER V M	28627 THOMPSON H H	29277 TREMESBERGER
STRACHAN C C	30781 TANSLEY W E	29356 THOMPSON H T	31247 TREMOLANTI L
STRANDBERG A	27576 TAPERNOUX A	25430 THOMPSON H T	31248 TRENARY O J
STRANDER J B	25423 TAPP J W	31321 THOMPSON J H	32521 TRENARY O J
STRANDTMANN R W	28625 TARANTOLA C	31765 THOMPSON M O	32246 TRENT D
STRANSKY N	27668 TARASSUK N P	30077 THOMPSON W L	29918 TRESSLER D M C
STRANTZ A VON	29680 TARASSUK N P	30237 THOMPSON W R	28961 TRETSVEN J O
STRATTON A J	27669 TARRAN A C	30352 THOMSEN E	24809 TREVEN K
STRATTON C L	27909 TARKKA E	24171 THOMSON J	28855 TREXLER P C
STRAUS A A	27958 TARKOWSKY E	31184 THORN F	27484 TROUT R S
STREET H B	24358 TARPONEN T	32524 THORNDIKE G H	26580 TRIGG R S
STREET H B	24615 TARRAS E	23887 THORNE R R	30606 TRIGG R S
STREEVER F	27440 TARRAS E	25127 THOROUGHBREED BREEDERS	30606 TRIGG R S
STREICHER L	26191 TARTUFOLO A	25431 THOROUGHBREED BREEDERS	23757 TRIGGS M
STREICHER L	27311 TASMANIA FORESTRY COM	32034 THORP C JR	24533 TRIMASTIC J C
STRICKER M H	28562 TASSY L	23888 THORP J	23639 TRINIDAD AND TOBAGO DIR
STRINGER A	28743 TASSY L	23888 THORPE W H	27960 OF AGR 32589
STRINGFELLOW R C	25424 TATUM E L	24531 THORSTEINSON A J	25772 TRIEN
STROHM J	31891 TATUM V	30961 THULLBERRY H A	28199 TRIOLA P DE LA
STROHM J	32244 TAUBER F W	29825 THURBER W B	29073 TRIPLETT B
STROMAN G N	24704 TAUBER H	29738 THURMAN D C JR	31948 TRIVELLI G
STROMBECK H	26578 TAUPEL K	29931 THURMAN MOE JR	27403 TROCME S
STROMER G	25125 TAWSE W J	25075 THURSTON H W JR	28628 TROCME S
STROMER G	30135 TAYLOR J J	30755 THWAITES W G	26671 TROLLOPE G A
STRONG R L	26023 TAYAL J N	25650 THYM A M	23933 TROMP L A M
STRONG T H	31428 TAYEAU F	31239 TICHY V L	29918 TROMP P H M
STROUHAL H	28626 TAYLOR A W	31528 TIEDEMAN W D	30766 TRIPA E
STRUBLE A H	32577 TAYLOR B R	27060 TIEDJENS V A	27410 TROTTER I P
STRUUWICKE A J	28563 TAYLOR C A	24532 TIEMANN H D	30407 TROUPING G
STRUNZ H	30076 TAYLOR C F	33889 TIERSTEIN V	25572 TROUT G M
STRUNZ H	31554 TAYLOR C F	23963 TIERSTEIN V	26549 TROUT G M
STRUVE H	31119 TAYLOR C R	29605 TIGRE C B	27516 TROVATO O A
STUART F C	27607 TAYLOR D H	25906 TILLIERE A	27580 TROVATO O A
STUART N R	24534 TAYLOR D J	28628 TIMMICK M B	26024 TROW SMITH R
STUBBS J R	27120 TAYLOR F	30604 TIMSON B D	28566 THOWBRIDGE E A
STULL J W	30306 TAYLOR G	26162 TIN U	24533 THUFFAULT G
STULTS A W	27160 TAYLOR H B	32346 TIND CHRISTENSEN C J	27288 TRUJILLO P
STURA C A	26883 TAYLOR H M	30864 TINDALL C	27288 TRUJILLO PELUFFO A
STURA C A	27577 TAYLOR I	28565 TINDALL C	31062 TRULSSON G
STURKIE P D	27743 TAYLOR J C	31322 TINDALL C	27670 TRUMBLES H C
STURKIE P D	27812 TAYLOR J J	26765 TINDER J D	31140 TRUSCOTT J H L
STUSSI D	30405 TAYLOR J K	31106 TIRELLI M	28071 TSCHERMAK WOESS E
STUTZ R E	24585 TAYLOR J M	26579 TISSOT A N	23920 TSCHIRITSCHE
SUAREZ A F	24566 TAYLOR J W	31766 TISSOT P	29169 TSCHIRSCHKY O VON
SUAREZ M	28326 TAYLOR M H	31092 TITUS	27688 TSUDA M
SUBBARANYAM K	31404 TAYLOR M N	26620 TIWARI S D N	31060 TSUNEKI K
SUBRAMANIAM M K	32345 TAYLOR N	24937 TJEDER B	26339 TUNSON A
SUORE J	24528 TAYLOR R	27514 TOBAR CARRENO R	28219 TUCKER C M
SUGAR BEET RES AND ED	29355 TAYLOR T H C	28744 TOBEY J A	26099 TUCKER C M
COM 24150	TAYLOR W L	26231 TOBISKA J W	32491 TUCKER R
SUGIMOTO Y	TAYNTON M	27442 TOBLER E	28054 TUCKER R H
SUIT R F	31237 TEAGUE C P	25041 TOBLER F	30172 TUFF P
SULLIVAN B	24054 TEARE D W	29394 TOBOLSKY A V	24705 TUKEY H B
SULLIVAN B	30958 TEARE D W	29572 TOD H	30602 TULLMANN
SULLIVAN P J	32886 TEARE D W	29606 TOD A C	25633 TURCAN A N
SUMMERS R J	30561 TEEDER P W	27409 TOD F A	27814 TURCEK F J
SUN C N	24595 TEFFT H D	31139 TOD F E	26107 TURK K L
SUN Y P	29005 TEKLINSKI A	27813 TOD O J	28514 TURK K L
SUNDERLAND D	26126 TELANDER J	28510 TOEPFER E W	26025 TURK K L
SUOLAHTI O	26347 TELFORD T M	29199 TOKYO MUNIC OFF	29888 TURK K L
SUPREME COMMANDER FOR THE	TEMPLEMAN W G	29477 BUR OF STATIS	29977 TURK L M
ALLIED POWERS	TEMPLETON G S	27971 TOLEDO A A DE	29978 TURKEY GEM DIR OF STATIS
NAT RES SECT	TEN DOESSCHATE J F	31789 TOLEDO LAZO A	29054
SURE B	TENNENT R B	31893 TOLONEN K	26941 TURKOWSKA W
SUTCLIFFE W	TENN DEPT OF AGR	32586 TOLSON P	30173 TURMAN E J
SUTHERLAND M	TENN STATE PLANNING	30307 TOMME M F	26942 TURNBULL R F
SUTTON W S	TENNETT R I	29826 TOMPKINS M D	31323 TURNBULL R F
SVANERG O	32652 TENNEY R I	31447 TOMPKINS W	30449 TURNBULL R F
SVENSKA VALL OCH MOS	1892 TERENTEV F A	26948 TOMSON C K	30808 TURNER A W
TURFORENINGEN	29520 TERENTEV P V	32587 TOMSON C K	29055 TURNER A W
SVENSSON K A	25570 TERMOHLEN W D	27910 TOMSON C K	26697 TURNER A W
SVENSSON V	23763 TERMOHLEN W D	27929 TONER R K	27061 TURNER A W
SVIHILA R D	32653 TERRAL R	32118 TONI C DE	27063 TURNER C W
SVOBODIN L V	26657 TERRAZAS M I	26884 TONINI G	30607 TURNER C W
SWAIN E H F	28116 TERRIER C	23797 TONINI G	23786 TURNER C W
SWAIN J B	27408 TERRIER C	32798 TONKIN J D	25128 TURNER C W
SWALLOW W A	23754 TERRIER C A	24055 TONKINSON E	29521 TURNER H J
SWAMY B G L	27755 TERRHILL H L	31240 TONNEAU J	31061 TURNER J
SWAMY B G L	24284 TERRUZZI F	26696 TONTZ C	28567 TURNER M
SWAMY B G L	24285 TERRY H B	25571 TONTZ C	28511 TURNER R C
SWAMY B G L	24286 TERTVET I W	24096 TOOKE F G C	28512 TURNER W F
SWAN L C	28170 TERWAGNE C	26361 TOOLE E H	28371 TURPIN S B



	ITEM		ITEM		ITEM		ITEM
TWINN C R	28856	UPCHURCH M L	32065	VEZIN C	24535	WAKELAND C	29220
TYNDALL J H	26314	UPHOF J C T	24192	VIANELLO G	27244	WAKSMAN S A	23673
TYNER C B	27314	UPHOF J C T	26283	VIANELLO G	27815	WALDEN M P O	28571
TYRER T B	31894	UPTON E W	30450	VIANNA E SILVA M	24669	WALDER W O	29935
TYKER T G	27315	URB	32713	VIAUD M C	25818	WALDHEIM S A	24195
TYSDAL H M	24811	URTEL J	31949	VICEN J	31556	WALDO F R A	20543
		URTON D	31110	VICKERMAN E R	27920	WALKER J C H	29178
UDALL R H	27347	URUGUAY ASAMBLEA GEN		VICKERS G S	27921	WALKER J C	23698
UEBELE G	26886	SENADO 31964		VICTORIA SOIL CONS BD	27922	WALKER J C	23961
UEZT F E	30410	USHATINSKAIA R S	28377	VIERI R		WALKER J C	24065
UGANDA DEPT OF AGR	28374	USINGER R L	28932	VIERI F	26101	WALKER J C	24116
UGGLAS C A	31555	UTAH AGR COL	32259	VIERI F		WALKER J C	24117
UHLMANN R	31770	UTAH FOUND	32260	VIERI F	26945	WALKER J C	24118
UHLMANN R F	31771	UTAH INAHO SUGAR CO	24866	VIERI F	25012	WALKER J C	30412
UKERS W H	30079	UTERHARCK F W	26551	VIERI F	29301	WALKER J C	29281
ULBRICH F	28513	UYAROV B P	29217	VIERI F	26893	WALKER L W	25754
ULBRICH I N	31342	UVALD M	25702	VIDAL OLIVER P A	25140	WALKER R B	30616
ULIM R	29718			VIEDRIA	27672	WALKER W A G	25013
ULLSTRUP A J	24059	VACCHERI G	25952	VIEIRA L M JR	30962	WALKER W F	25014
ULM A	25139	VACHHANI M V	25953	VIEITAS J M JR	26102	WALKER W F	25574
ULKRICH J A	31142	VACHON M	28629	VIERI F	31897	WALLA M	30698
ULKRICH R	30845	VACHERSTED E	26572	VIERI F	31898	WALLA M	30755
ULSTER AGR ORGAN SOC		VAGMI D	27582	VIERI F	32040	WALLACE A E	24588
32347		VAIL G E	29701	VIERI F	32041	WALLACE M E	27541
UMBARGER M	31895	VAITSMAN J	26889	VIERI F	32042	WALLACE M H	28041
UMEN D P	24842	VAITSMAN J	27064	VIERI F	29177	WALLACE T	24537
UNDERWOOD C	30609	VAITSMAN J	27240	VIERI F	30848	WALLACE T	24538
UNDERWOOD E J	24807	VAITSMAN J	27241	VIGUERA LOBO J M	30614	WALLACE T	24539
UNDERWOOD E J	28055	VAITSMAN J	27671	VIKTOROV P P	28072	WALLACE T	25959
UNGLAS G	26887	VAITSMAN J	28172	VILANOVA	28379	WALLER J F	24948
UNGNAD H E	24589	VALANTIN G	31234	VILARDEBO A	29218	WALLER J F	24997
UNION NAC DE COOP DEL		VALCAUDA A L	31064	VILLARDEBO A		WALLERSTEIN J B	30081
CAMPO 32348		VANDERORNELAS O	30234	VILLARDEBO A		WALLIHAN E F	25960
U S S R GLAVNOE UPRAV		VALDIVIA A A	32893	VILLAR PALASI V	24582	WALSH F P	31950
LENIE LESOKHIMICHES		VALEN A L	30235	VILLAR J B	27067	WALSH R N	25439
KHOZIAISTVAMI	26606	VALENTINI M	29720	VILLAR J B	27068	WALTERS F R	31430
U S S R MIN LESMOGO		VALLANCE L G	24855	VILLEGAS V	31065	WALTON A	27072
ZIAISTVA 26315		VALLE C G DEL	24328	VILLENEUVE P	31096	WALTON A	27248
U S S R SOVIET MIN	31896	VALLE R H	24706	VILLIERE A	26581	WALTON G A	29059
UNION OF SO AFRICA DEPT		VALLE GARIBI E DEL	24172	VILLIERS A	29007	WAMPLER R M	26552
DIV OF ECON AND MKTS		VALLEAU W D	23894	VILLIERS A	32601	WANG C C	27413
31772		VALLERGGI M	31242	VILMORIN R DE	31143	WANG H	27674
UNION OF SO AFRICA DEPT		VALLER FERNANDEZ P	26770	VINE L	27412	WANGAARD F F	26534
VAN LANDBOU	31463	VALLER FERNANDEZ P	31243	VINE R	25958	WANNER H	24591
UNION OF SO AFRICA OFF OF		VAN CLEVE B	30613	VINE R	32264	WANNER K	32602
CENSUS AND STATIS	29979	VANDEMAREK F J	24843	VINE V	23896	WABASSE J P	30452
UNION STOCK YARDS CO OF		VAN DEN BERG X	25954	VINITIS P	26644	WAND A H	23674
OMAMA 31094		VAN DER LINDEN L	29739	VINTILA E	24939	WAND G F	32355
UNION SUISSE DES PAYSANS		VAN DER LINDEN L	25042	VA STATE DAIRYMENS ASSOC	24939	WAND G M	27317
32349		VAN DER MERWE A J	29576	VA STATE HORT SOC	25773	WARD G W	28632
UNITED NATIONS INTERIM CO		VAN DER MERWE E J	24814	VITANATHAN I	24590	WARD J C	28054
ORDINATING COM FOR INTER		VANDERMEULEN E L	25528	VITANT	24873	WARD K JR	30617
NATL COMMODITY		VANDERPLANK F L	29607	VITTORANGELI	30451	WARD R W	30177
ARRANGEMENTS	32435	VANDERWEREN H	26643	VITTOZ R	27246	WARE R B	25440
UNITED NATIONS SUB COMM		VAN EPPS C F	24288	VIVANCOS GUERAO I	26032	WARING E J	24546
ON STATIS SAMPLING	32724	VAN FLEET D B	26890	VIVEROS J DE	31412	WARMBURN K	24066
UNITED PROV DEPT OF AGR		VAN HOUWELING C D	30922	VIVERO CASTILLA	24940	WARGUEZ P	24540
30960		VAN LANEN J M	25435	VODAK L S	30237	WARGUEZ P	28633
U S BUR OF INT REV		VAN MELLE P J	25436	VOELCKER O J	31413	WARREN C H	24816
EXCESS PROFITS TAX		VAN MELLE P J	31324	VOEL F H	26667	WASASTJERNA J A	30618
COUNCIL 30610		VAN NEST G	28514	VOEL H	30963	WASH DEPT OF CONS AND	
U S BUR OF LAB STAT	29864	VANSEL G H	28514	VOGEL S G	27247	26034	
U S BUR OF RECLAM	26026	VAN SOMEREN E C C	28912	VOGELSANG T	28630	WASHKO F V	27249
U S BUR OF THE CENSUS		VANSTONE E	25955	VOGELSANGER T	23897	WASHKO F V	27250
29980		VAN TOL FILHO P L	28569	VOGT G B	28746	WASICKY E J	28380
U S BUR OF THE CENSUS		VANVIG A	31862	VOGT S M	31777	WASON E J	29179
29981		VAN VLACK C H	29577	VOLANKOVICH S I	26163	WASSERMAN A	24592
U S BUR OF THE CENSUS		VAN WYK H P D	27065	VOLK G M J S	26109	WASSON R A	26713
29982		VAN ZEBEN W	32531	VOLLMEYER J S	25704	WASSON R A	24708
U S BUR OF THE CENSUS		VAN ZYL J P	26128	VOLLMEYER J S	24815	WASSON R A	28138
32039		VANDEHAUG A	28029	VOLLMEYER J S	27123	WATANABE C	29060
U S BUR OF THE CENSUS		VARELA MARTINEZ R	24707	VOLODKO I F	26033	WATERFALL U T	23689
32436		VARGAS L	28910	VOLOVIA A E	31887	WATKINS J V	25441
U S COMMOD CREDIT CORP		VARGAS L	28912	VOLZ F E	31109	WATKINS N W	32432
31503		VARGAS ORJUELA V	25573	VOMSATTEL M	28515	WATKINS S G	28747
U S CUBAN SUGAR COUNCIL		VARGINA P I	31592	VONSATTEL M H	28516	WATSON A	27601
31410		VAKIN G	29174	VONDELL J M	27673	WATSON A J	27948
U S DEPT OF STATE	31464	VAKINI F	29523	VOSKUIL W C	27124	WATSON E B	26625
U S DEPT OF STATE	32437	VAKMA K	30236	VOSKUIL W C	31097	WATSON E B	27448
U S DEPT OF STATE	32438	VAKNEY H H	30175	VOSKUIL W C	31908	WATSON E B	29282
U S DEPT OF STATE	32439	VASIL CHENKO A A	24668	VOSS C M	28345	WATSON G E	32265
U S DEPT OF STATE	32440	VAVGHAN E K	24062	VOSS L A	30322	WATSON I	28015
U S DEPT OF STATE	32441	VAVGHAN E K	24062	VOSS R C	31325	WATSON I	31951
U S DEPT OF STATE	32442	VAVGHAN E K	24062	VOTH V	26771	WATSON J A S	27073
U S DEPT OF STATE	32443	VAVGHAN E K	24062	VOUK V	23913	WATSON R D	31326
U S DEPT OF STATE	32444	VAVGHAN E K	24062	VOY A	24193	WATSON R M	24097
U S DEPT OF STATE	32445	VAVGHAN E K	24062	VRIES V DE	29219	WATSON S J	31508
U S DEPT OF STATE	32446	VAVGHAN E K	24062	VSESOIUZNYI NAUCHNO	24194	WATSON S J	31900
U S DEPT OF STATE	32447	VAVGHAN E K	24062	ISSLEDOVATELSKII INST		WATSON S J	32603
U S DEPT OF STATE	32448	VAVGHAN E K	24062	PSCHELOVOODSTVA	28517	WATT J H	30501
U S DEPT OF STATE	32449	VAVGHAN E K	24062	ISSLEDOVATELSKII INST		WATT J H	25129
U S DEPT OF STATE	32450	VAVGHAN E K	24062	ZHIVOTNOVOODSTVA	26946	WATT R D	29478
U S DEPT OF STATE	32451	VAVGHAN E K	24062	VSIKIKH A S	27069	WATTS G S	26194
U S DEPT OF STATE	32452	VAVGHAN E K	24062	VUCASSOVICH M P	30005	WAUGH R K	24787
U S ECON COOP ADMIN	31465	VAVGHAN E K	24062			WAUTHY R	24867
U S ECON COOP ADMIN	32452	VAVGHAN E K	24062			WAYGOOD E R	24593
U S EMBASSY GT BRIT	24534	VAVGHAN E K	24062			WEATHERBY H P	26658
U S EMBASSY GT BRIT	32710	VAVGHAN E K	24062			WEATHERWAX R C	24289
U S EMBASSY GT BRIT	32711	VAVGHAN E K	24062			WEAVER J W JR	26728
U S FED TRADE COMM	29359	VAVGHAN E K	24062			WEAVER J W JR	29528
U S GEOL SURVEY	26027	VAVGHAN E K	24062			WEBB MRS E R	24541
U S GEOL SURVEY	26028	VAVGHAN E K	24062			WEBB MRS E R	28518
U S GEOL SURVEY	26029	VAVGHAN E K	24062			WEBB MRS E R	28519
U S INST OF INTERAMER AFF		VAVGHAN E K	24062			WEBBER W T	30699
26193		VAVGHAN E K	24062			WEBER A F	27251
DIV OF HEALTH AND SANIT		VAVGHAN E K	24062			WEBER H	28099
32257		VAVGHAN E K	24062			WEBER K	30178
U S JUNIOR CHAMBER OF		VAVGHAN E K	24062			WEBER M	28572
COM 32311		VAVGHAN E K	24062			WEBER M	28534
U S JUNIOR CHAMBER OF		VAVGHAN E K	24062			WEBSTER C C	25705
COM 32352		VAVGHAN E K	24062			WEBSTER C C	25706
U S LIBR OF CONG	32655	VAVGHAN E K	24062			WEBSTER O J	33993
CENSUS LIBR PROJ	29983	VAVGHAN E K	24062			WEBSTER R L	28635
U S OFF OF BUDGET AND		VAVGHAN E K	24062			WEBSTER W L	29450
FINANCE 32598		VAVGHAN E K	24062			WEBSTER KAY R G	28749
U S OFF OF EDUC	32258	VAVGHAN E K	24062			WECHER A TE	26582
U S PRES COM ON FOREIGN		VAVGHAN E K	24062			WECKEL K G	30239
AID 31466		VAVGHAN E K	24062			WECKEL K G	26352
U S PUB HEALTH SERV	28908	VAVGHAN E K	24062			WECKEL K G	26353
U S RUBBER CO	31350	VAVGHAN E K	24062			WECKEL K G	26354
U S TARIFF COMN	32453	VAVGHAN E K	24062			WECKEL K G	26355
U S TARIFF COMN	32454	VAVGHAN E K	24062			WECKEL K G	26356
U S TARIFF COMN	32455	VAVGHAN E K	24062			WECKEL K G	26357
U S TREAS DEPT		VAVGHAN E K	24062			WECKEL K G	26358
SAVINGS BOND DIV	31475	VAVGHAN E K	24062			WECKEL K G	26359
UNIVERSITIES FED FOR ANIM		VAVGHAN E K	24062			WECKEL K G	26360
WELFARE 27608		VAVGHAN E K	24062			WECKEL K G	26361
UNIVERSITY COL OF WALES	29797	VAVGHAN E K	24062			WECKEL K G	26362
DEPT OF AGR ECON	31063	VAVGHAN E K	24062			WECKEL K G	26363
UNIVERSITY COL OF WALES	29797	VAVGHAN E K	24062			WECKEL K G	26364
DEPT OF AGR ECON	31063	VAVGHAN E K	24062			WECKEL K G	26365
UNTO D	28380	VAVGHAN E K	24062			WECKEL K G	26366



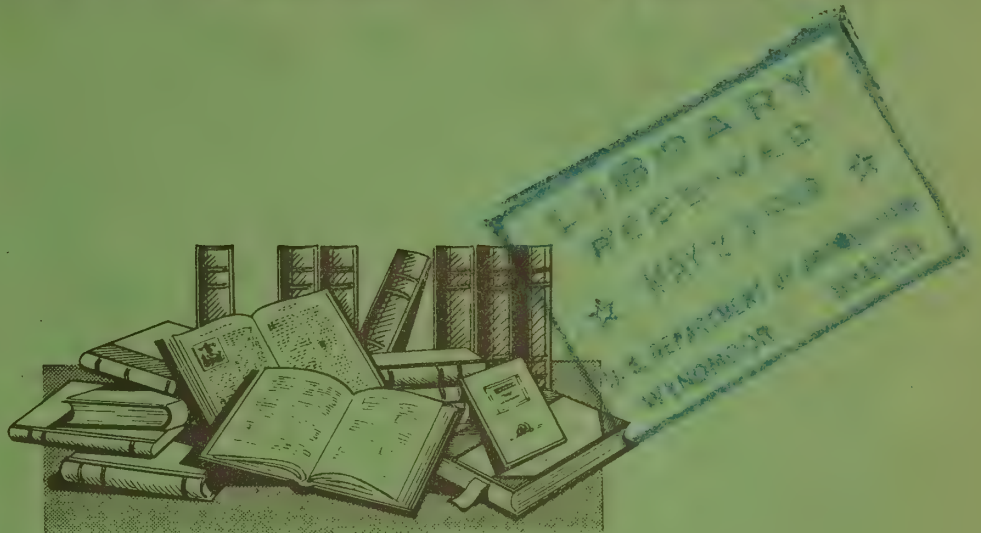
☆ U. S. GOVERNMENT PRINTING OFFICE : O—1949 801228







# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 13 of the Bibliography of Agriculture will appear as number 12 of volume 13, the issue of December 1949.

United States Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications, is followed in this publication with the exception of the following: B.—Bulletin; C.—Circular; J.—Journal; P.—Publication; Q.—Quarterly; U.—University; U. S. D. A.—United States Department of Agriculture; Ybk.—Yearbook; Z.—Zeitschrift.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library at the following prices:

**MICROFILMS:**

Periodical Articles.—A flat charge of 50 cents for any single article, from any single volume of a periodical.

Books and Serial Publications.—50 cents for each 50 pages or fraction thereof.

**PHOTOPRINTS:**

50 cents for each 5 pages or fraction thereof from any single volume.

**ALL CHARGES ARE CASH WITH ORDER.** (Only Federal agencies are exempt.)

Enclose payment in cash, library coupon or check or money order drawn to the Treasurer of the United States.

**LIBRARY COUPONS**—United States Department of Agriculture Library coupons valued at 50 cents each may be ordered in any quantity.



UNITED STATES DEPARTMENT OF AGRICULTURE

LIBRARY

BIBLIOGRAPHY OF AGRICULTURE

Vol. 13

May 1949  
Items 32725-41472

No. 5

CONTENTS

	Item		Item		Item
Plant Science	32725-35196	Materials for Soil Improvement	35692	Feeds and Feeding	36275
Systematic and Geographic		Primary Materials	35702	Veterinary Medicine	36362
Botany	32792	Secondary and Minor Element		Miscellaneous	36480
Spermatophytes	32821	Materials	35710	Cattle	36504
Pteridophytes	32917	Mixed Fertilizers and Fertilizer		Breeds and Breeding	36504
Bryophytes	32937	Technology	35714	Feeds and Feeding	36622
Algae	32956	Fertilizer Statistics	35720	Veterinary Medicine	36688
Fungi and Lichens	32968	Mineral Soil Amendments	35727	Miscellaneous	36800
Pathology	33001	Manures and Composts	35728	Dogs and Cats	36867
Fungus Diseases	33087	Forestry	35751-36249	Breeds and Breeding	36867
Bacterial Diseases	33222	Economics and Policy	35751	Feeds and Feeding	36878
Virus Diseases	33243	Legislation	35796	Veterinary Medicine	36880
Nematodes	33284	Description and Resources	35799	Miscellaneous	36926
Ecology	33299	Individual Genera	35818	Fur Animals - Pen Raised	36935
Morphology, Anatomy, and		Forest Administration and		Breeds and Breeding	36935
Cytology	33324	Management	35835	Feeds and Feeding	36941
Genetics	33388	Farm Woodlands	35873	Veterinary Medicine	36947
Physiology	33436	Mensuration	35899	Miscellaneous	36958
Biochemistry	33605	Forest Protection and Damage		Horses and Mules	36971
Field Crops	33657	Fire	35918	Breeds and Breeding	36971
Cereals	33685	- Meteorological Injuries	35929	Feeds and Feeding	36999
Fiber Crops	33778	Silviculture	35954	Veterinary Medicine	37002
Forage and Grasses	33800	Lumbering	35956	Miscellaneous	37054
Oil Crops	33935	Equipment	36008	Laboratory Animals, Small	37073
Sugar Crops	33965	Logging	36010	Feeds and Feeding	37073
Tobacco	33981	Lumber Industry	36026	Veterinary Medicine	37075
Horticultural Crops	33988	Sawmills	36033	Miscellaneous	37076
Fruits	34103	Wood Technology	36063	Poultry	37078
Citrus and Subtropical	34189	Preservative Treatment	36072	Breeds and Breeding	37078
Deciduous	34240	Properties and Structure	36079	Feeds and Feeding	37128
Small	34333	Seasoning, Conditioning, and	36086	Veterinary Medicine	37175
Nuts	34406	Finishing	36096	Miscellaneous	37235
Shade Trees and Ornamental		Forest Products	36106	Rabbits	37353
Plants	34453	Building Construction	36143	Breeds and Breeding	37353
Vegetables	34838	Charcoal	36148	Feeds and Feeding	37372
Weeds and Poisonous Plants	35048	Containers	36150	Veterinary Medicine	37375
Miscellaneous	35128	Cork	36151	Miscellaneous	37390
Soils and Fertilizers	35197-35750	Furniture	36154	Sheep and Goats	37401
Soil Science	35197	Naval Stores	36155	Breeds and Breeding	37401
Soil Physics	35211	Pulp and Paper	36157	Feeds and Feeding	37424
Soil Chemistry	35222	Tanning Material	36169	Veterinary Medicine	37439
Soil Biology	35251	Veneers, Plywood, and Adhesives		Miscellaneous	37481
Soil-Plant-Animal Relation-		Wood as Fuel	36174	Swine	37512
ships	35280	Miscellaneous	36196	Breeds and Breeding	37512
Soil Genesis, Formation,		Education	36201	Feeds and Feeding	37520
Classification, and Mapping	35294	Forest Engineering	36231	Veterinary Medicine	37552
Soil Management	35311	Forest Influences	36243	Miscellaneous	37583
Soil Fertility	35328	Wildlife	36247	Entomology	37612-38556
Tilth and Tillage	35502	Animal Industry	36250-37611	General - Economic	37632
Drainage, Irrigation, Water		Breeds and Breeding	36250	Apiculture and Apis Mellifera	
Supply, etc.	35520			Colony Management	37787
Erosion and Control	35608			Arachnida, etc.	37864
Sanitation	35679			Coleoptera	37878
					37938

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Diptera	38074	Grading, etc.	39074	Income	40484
Culicidae	38172	Packing and Packaging	39077	Inflation	40488
Hemiptera	38249	Prices, etc.	39083	Insurance	40490
Hymenoptera	38343	Processing and Storage	39114	Taxation	40507
Lepidoptera	38381	Statistics	39164	Agricultural Labor and Wages	40532
Orthoptera	38488	Beverages and Condiments	39185	Agriculture - Situation, Policies	40578
Sericulture and the Silkworm	38514	Dairy Products	39261	and Programs	40696
Smaller Orders	38517	Analysis and Composition	39334	Subsidies	40700
Agricultural Engineering	38557-	Consumption, etc.	39366	Cost and Standard of Living	40703
	38964	Distribution, etc.	39379	Farm Management and Land	40703
General and Miscellaneous	38557	Grading, etc.	39402	Economics	40776
Machines and Equipment	38580	Packing and Packaging	39435	Bookkeeping and Records	40781
Animal Husbandry	38632	Prices, etc.	39450	Costs and Returns	40826
Cultivation and Tillage	38667	Processing and Storage	39477	Land Settlement and Colonization	40835
Fertilizer and Seed Distributors	38685	Statistics	39568	Land Tenure	40919
Harvesting	38689	Feed and Forage Crops	39570	Land Utilization	40943
Land Clearing	38714	Fibers and Textiles	39593	Land Values, etc.	40951
Processing Equipment Used on	38715	Fruits, Vegetables, and Nuts	39707	Population	40959
the Farm	38715	Analysis and Composition	39760	Rural Social Organization	40968
Repair, Maintenance, and Con-	38734	Consumption, etc.	39776	Human Ecology	40976
struction	38734	Distribution, etc.	39784	Institutions	41080
Spraying and Dusting	38742	Grading, etc.	39829	Leadership	41082
Vehicles	38755	Packing and Packaging	39844	Rural Organizations and	41160
Structures and Rural Housing	38812	Prices, etc.	39854	Movements	41163
Animal Shelters and Service	38828	Processing and Storage	39863	Rural Social Psychology	41197-
Buildings	38828	Statistics	39946	Trade, Foreign and International	41304
Farmhouses and Farmsteads	38878	Grain and Grain Products	39957	Food and Human Nutrition	41304
Greenhouses and Plant Service	38884	Honey and Beeswax	40041	Food Habits	41253
Buildings	38884	Livestock and Livestock Products	40051	Nutritive and Vitamin Content	41255
Materials and Methods	38891	Analysis and Composition	40102	Miscellaneous	41305-41472
Storage Structures	38899	Consumption, etc.	40111	History and Biography	41348
Walls and Fences	38908	Distribution, etc.	40112	Home Management	41391
Utilities	38913	Grading, etc.	40129	International Relations	41421
Electricity and Electrification	38913	Packing and Packaging	40138	Meteorology	41429
Heating, Lighting, and Radiation	38939	Prices, etc.	40139	Research	41440
Power Plants, Motors and	38944	Processing and Storage	40145	Statistics	41469
Engines	38944	Statistics	40168	U. S. D. A. Publications	p. 185
Sewage and Waste Disposal	38953	Oils and Oilseeds	40174	State Agr. Expt. Sta. Publications	p. 189
Telephones	38955	Poultry and Poultry Products	40233	State Agr. Ext. Serv. Publications	p. 193
Water Supply	38956	Rubber and Rubber Substitutes	40326	AUTHOR INDEX	p. 199
Agricultural Products: Processing,	38965-	Seeds	40339		
Distribution, and Statistics	38965-	Sugar and Sirups	40363		
	40425	Tobacco	40403		
Analysis and Composition	39006	Miscellaneous Products	40412		
Consumption, etc.	39020	Agricultural Economics and Rural	40426-41196		
Distribution, etc.	39025	Sociology	40426-41196		
		Agricultural Finance	40449		
		Credit	40458		

## Corrections

Item 16191 in the February issue, which appears also in the Checklist of publications of the Department of Agriculture was mimeographed for internal use and is not available for distribution.

Southern Lumberman vol. 177, no. 2225, which was indexed in the March issue, was dated incorrectly Jan. 3, 1949. The date should be Dec. 15, 1948.



## PLANT SCIENCE

## GENERAL

- 32725 AMSTERDAM UNIVERSITE. JARDIN BOTANIQUE. Catalogue des graines. 1948. 22 p. 61.5 Am8
- 32726 ANGELY, J. Dictionary of technical botanical terms. (In Portuguese.) Rev. da Flora Med. 15: 387-408, 421-456, 492-504. (Cont.) Sept.-Nov. 1948. 71.8 R32
- 32727 AYYAR, S. N. C. How best the botanist can help in solving the food crisis? Madras Agr. J. 35: 392-394. Dec. 1948. 22 M262
- 32728 BLAKELOCK, R. A. The Rustam Herbarium, 'Iraq. 1. Kew B. 1948: 375-444. 451 K51B
- 32729 BONNER, J. Chemical warfare among the plants. Sci. Amer. 180(3): 48-51. Mar. 1949. 470 Sci25
- 32730 CAMPBELL, T. N. The pioneer tree-ring work of Jacob Kuechler. Tree-Ring B. 15(3): 16-20. Ref. Jan. 1949. 99.8 T713
- 32731 CÁRDENAS, M. Algunos vegetales curiosos de Bolivia. Agros [Cochabamba] 1: 37-40. Oct. 1948. 9.4 Ag86
- 32732 CERCOS, A. P. Actinomicelina, nuevo antibiotico producido por un "Streptomyces." Argentina. Dir. Gen. de Labs. e Invest. Rev. de Invest. Agr. 2: 147-156. Ref. July 1948. 9 R329
- 32733 CHANEY, R. W. The ancient forests of Oregon. Eugene, Oreg. State System of Higher Ed., 1948. 56 p. (Condon Lectures) 402.1 C36A
- 32734 COE, J. E. The enigma of the flowering plants. School Sci. & Math. 49: 27-31. Jan. 1949. 470 Sch64
- 32735 CONNELL, E. A. Laws and trees in Connecticut. II. Trees [Cleveland] 9(2): 16-17. Jan./Feb. 1949. 99.8 W52
- 32736 COOK, L. Australian plants. Amateur Gard. Ann. 1949: 97. 80 Am12
- 32737 COOPER, R. E. Notes upon Bhutan in the eastern Himalaya. Roy. Hort. Soc. J. 74: 68-75. Ref. Feb. 1949. 84 L84J
- Vegetation.
- 32738 DANIELSSON, B. An excursion to northern Frostviken. (In Swedish.) Svensk Bot. Tidskr. 42: 486-492. Ref. 1948. 450 Sv2
- English summary.
- Vegetation.
- 32739 DAWSON, E. Y. A naturalist's diary on the Mexican West Coast. III. Cactus and Succulent J. 21: 26-28. Jan./Feb. 1949. 451 C11
- 32740 DEMBINSKI, J. Die beziehungen des menschen zur pflanze. Berufsgärt. 1(11): 1-2. Nov. 1948. 80 B463
- 32741 DEMPSEY, P. W. A candid estimate of radicle activity and plants. Horticulture 27: 80. Mar. 1949. 80 H787
- 32742 DULANEY, E. L. Observations on Streptomyces griseus. III. Carbon sources for growth and streptomycin production. Mycologia 41: 1-10. Jan./Feb. 1949. 450 M99
- 32743 ERDTMAN, G. Palynology. Aspects and prospects. Svensk Bot. Tidskr. 42: 467-483. 1948. 450 Sv2
- 32744 EYSTER, W. H. Botany for the gardener. 16. Organic Gard. 14(3): 29-31. Mar. 1949. 56.8 Or3
- 32745 FASSETT, N. C. Herbarium technique. Rhodora 51: 59-60. Mar. 1949. 450 R34
- 32746 FERREIRA, F. H. The tree of the piercing thorns [Gymnosporia buxifolia]. Veld Trust News 5(4): 21. Jan. 1949. 56.8 V54
- 32747 FRITSCH, F. E. The lines of algal advance. Cambridge Phil. Soc. Biol. Rev. 24: 94-124. Ref. Jan. 1949. 442.9 C14
- 32748 GALLE, F. C., and NANK, E. E. Oak leaf patterns. Amer. Nurseryman 89(6): 11-13, 48-50. Mar. 15, 1949. 80 Am371
- 32749 GRUNBACH, F., and others. Présence dans les jus bruts de culture et dans les extraits trichloroacétiques du mycélium d'Actinomyces griseus d'un antibiotique différent de la streptomycine et de la griséine. Paris. Acad. des Sci. Compt. Rend. 228: 212-214. Jan. 10, 1949. 505 P21
- É. Arquie, P. Goret, F. Boyer, and C. Flachet, joint authors.
- 32750 HANSEN, H. P. Postglacial forests in south central Alberta, Canada. Amer. J. Bot. 36: 54-65. Ref. Jan. 1949. 450 Am36
- 32751 HART, T. S. Botany group excursion to fern-tree gully. Victorian Nat. 65: 179. Nov. 1948. 410 V66
- 32752 HENRICI, M. Als botanikerin im dienste der Südafrikanischen Union. Leben u. Umwelt 5: 77-84. Jan. 1949. 410 L49
- 32753 HOFFERD, G. W. What's in a plant name? Your Gard. & Home 3: 14, 20-22. Jan. 1949. 80 Y8
- 32754 INGWERSEN, W. Corsica again. My Gard. 37: 589-592. Dec. 1948. 80 M995
- Vegetation.
- 32755 IVERSEN, J. Palaeobotany and pollen analysis. In The humanities and the sciences in Denmark, p. 313-315. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- 32756 JANKE, A. Die methangärung. Österr. Bot. Z. 95: 325-335. Ref. Nov. 15, 1948. 450 Os7
- 32757 JONES, G. N., and MEADOWS, E. Principal institutional herbaria of the United States. Amer. Midland Nat. 40: 724-740. Nov. 1948. 410 M58
- 32759 KELNER, A. Studies on the genetics of antibiotic formation: the induction of antibiotic-forming mutants in Actinomycetes. J. Bact. 57: 73-92. Ref. Jan. 1949. 448.3 J82
- 32760 KING, E. A. Plants of the Holy Scriptures... with a Check-list of plants that are mentioned in the Bible. New York, New York Botanical Garden, 1948. 23 p. 452.7 K58P
- 32761 KING, F. A. Musical trees and other forest curiosities. Trees [Dorchester] 12: 137-140. Winter 1948. 99.8 T714
- 32762 LANDERKIN, G. B., and LOCHHEAD, A. G. A comparative study of the activity of fifty antibiotic Actinomycetes against a variety of soil bacteria. Canad. J. Res. Sect. C, Bot. Sci. 26: 501-506. Dec. 1948. 470 C16C
- 32763 LAUGER, J. From the world over, new plants; the regional station at Iowa State plays a vital role in the recently expanded plant introduction program. Iowa Agriculturist 48(6): 7, 21. Jan. 1949. 6 Io9
- 32764 LEHMANN, E. Lebende fossilien. Orion 4: 28-31. Jan. 1, 1949. 474 Or4
- Metasequoia.
- 32765 LOCQUIN, M., and LOCQUIN, MME. M. Les antibiotiques d'origine fongique. Revue bibliographique IV. Rev. de Mycol. (n. s.) 13: 135-144. Oct. 1, 1948. 450 An74
- 32766 MACINDOE, S. L. He helped to make Australia one of the granaries of world; our debt to [William James] Farrer, the experimenter & the man. Land [Sydney] (Farm & Sta. Ann.) 1928: 37-38. Oct. 20, 1948. 23 L22
- 32767 MASCRÉ, M., and DEYSSON, G. Manuel d'herborisation, introduction à l'étude de la botanique systématique. Paris, Société d'Édition d'Enseignement Supérieur, 1948. 228 p. 459.5 M37
- 32768 NEGRI, R. An antibiotic substance contained in the aqueous extract of Raphanus sativus L., var. radicular Pers., particularly active "in vitro" against V. cholerae and other gram-negative bacteria. Preliminary note. (In Italian.) Ist. Super. di Sanit. Rend. 11: 990-993. 1948. 449.9 R66
- French, English, and German summaries.
- 32769 PERLMAN, D. Production of penicillin on natural media. Torrey Bot. Club. B. 76: 79-88. Ref. Mar./Apr. 1949. 451 T63B
- 32770 PETERSON, B. Hortus Christinedal. A botanical garden in Gothenburg in the 18th century. (In Swedish.) Svensk Bot. Tidskr. 42: 444-456. Ref. 1948. 450 Sv2
- English summary.
- 32771 PORTER, R. H. Recent developments in seed technology. Bot. Rev. 15: 221-282. (To be cont.) Apr. 1949. 450 B6527
- 32772 PURI, G. S. The flora of the Karewa series of Kashmir and its phytogeographical affinities with chapters on the method used in identification. Indian Forester 74: 152-164. (Cont.) Apr. 1948. 99.8 In2
- 32773 ROBERTS, P. To understand Florida you'll have to see it. Fla. Grower 57(3): 5, 17. Mar. 1949. 80 F6622
- Includes vegetation.



- 32774 RYDER, E. A god for every farm job. *Cornell Countryman* 46(5): 6. Feb. 1949. 6 C81  
Plant mythology.
- 32775 SCHULMAN, E. Chronology characters at ruins in the Gila Basin. *Tree-Ring B.* 15(3): 21-22. Jan. 1949. 99.8 T713  
Dates from tree rings.
- 32776 SCHUSTER, H. Samengewinnung so u. so. *Gärt.-Kurier* 3(24): 5. Dec. 15, 1948. 80 G1942
- 32777 SMILEY, T. L. Tree-ring dates from Point of Pines. *Tree-Ring B.* 15(3): 20-21. Jan. 1949. 99.8 T713
- 32778 SOBOLEVSKAIA, K. A. Fundamental characteristics of the vegetation of south-eastern Tuva. (In Russian.) *Vsesoiuzn. Geog. Obsch. Izv.* 80: 496-499. Sept./Oct. 1948. 511 L546
- 32779 SPAIN, R. L. Insectivorous plants. *Gard. Chron. Amer.* 53: 62-63. Mar. 1949. 80 G1632
- 32780 STEYERMARK, J. A. Effects of damming Ozark Springs. *Mo. Bot. Gard. B.* 37: 41-48. Feb. 1949. 451 M69B  
Vegetation.
- 32781 SYMPOSIUM on botanical nomenclature. I-IX. *Amer. J. Bot.* 36: 1-32. Jan. 1949. 450 Am36  
I, Introduction, by E. E. Sherff; II, Botanical nomenclature since 1867, by C. A. Weatherby; III, Byways of nomenclature, by S. F. Blake; IV, An editor's point of view, by H. W. Rickett; V, Adventures in locating validly published but unlisted binomials, by E. D. Merrill; VI, Toward a simple and clear nomenclature, by F. W. Pennell; VII, Problems in taxonomy, by L. H. Bailey; VIII, The problem of subspecific categories, by C. O. Rosendahl; IX, The nomenclature of fossil plants, by T. Just.
- 32782 TATE, G. H. H. Australia's stinging trees [Laportea]. *Nat. Hist.* 58: 125-126, 141. Mar. 1949. 500 N483J
- 32783 VITTORIA, A. The program of the F. A. O. and the international exchange of seed. (In Italian.) *Humus* 4(12): 3-6. Dec. 1948. 16 H88
- 32784 WAKSMAN, S. A. The literature on streptomycin, 1944-1948. New Brunswick, Rutgers Univ. Press, 1948. 112 p. 241.64 W13
- 32785 WALLACE, W. S. ed. The Royal Canadian Institute: centennial volume, 1849-1949. Toronto, Royal Canadian Institute, 1949. 232 p. 517 T63W  
Includes Botany, by D. L. Bailey.
- 32786 WARD, F. K. Monsoon on Sirhoi. *Gard. Chron.* 125: 62-63, 72-73. Feb. 19-26, 1949. 80 G162  
Vegetation.
- 32787 WEBBER, I. S. Bits that grow big; where plants come from. New York, Scott, 1949. 64 p. 463.38 W38
- 32788 WEISS, F. Weeds, fungi, and the education of botanists. *Sci. Monthly* 68: 257-261. Apr. 1949. 470 Sci23
- 32789 WHITAKER, F. O. The Cromer Forest Bed: a comparison between the pre-glacial and the present flora of Norfolk. *So.-East. Nat. & Antiquary* 53: 31-38. 1948. 501 So82
- 32790 WHITTENBERGER, R. T., and NAGHSKI, J. Separation and mounting of leaf vein skeletons and epidermis. *Amer. J. Bot.* 35: 719-722. Dec. 1948. 450 Am36
- 32791 ZANDER, R. Kleines botanisches fremdwörterbuch; hilfsbuch der botanischen fachsprache für gärtner, land- und forstwirte. Ed. 2, rev. and enl. Stuttgart, Ulmer, 1948. 155 p. (Grundlagen und Fortschritte im Garten- und Weinbau, v. 57) 452.12 Z1K
- 32796 BOUBY, H. Quelques plantes intéressantes trouvées à Paris ou aux abords immédiats. *Feuille des Nat. (n. s.)* 2: 61. May/June 1947. 410 F432
- 32797 BOURNÉRIAS, M. Quelques plantes intéressantes des environs de Rosny-sur-Seine (Seine-et-Oise). *Feuille des Nat. (n. s.)* 3: 17-18. Jan./Feb. 1948. 410 F432
- 32798 CAIN, S. A., and SLATER, J. V. The vegetation of Sodon Lake [Michigan]. *Amer. Midland Nat.* 40: 741-762. Nov. 1948. 410 M58
- 32799 CHATTERJEE, D. New records of plants from India, Pakistan and Burma. *Kew B.* 1948: 373-374. 451 K51B
- 32800 DRIESS, E., MILDNER, T., and FISCHER, C. Herba kräuter- und pflanzenbuch; es wächst so viel ... kennst du es auch? Plochingen A. N., 1948. v. 2, 90 p. 452.8 D83
- 32801 EVANS, I. B. P. A reconnaissance trip through the eastern portion of the Bechuanaland Protectorate, April, 1941 and an expedition to Ngamiland, June-July, 1947. *Union So. Africa. Bot. Survey. Mem.* 21, 111 p. Ref. 1948. 460.46 So8
- 32802 FERNALD, M. L., and SCHUBERT, B. G. Studies of American types in British herbaria. *Gray Herbarium, Harvard U. Contrib.* 167: 149-233. 1948. 451 G792
- 32803 FOURY, A. Liste des plantes spontanées récoltées dans la région d'El Kelaa des Srahna les 11 & 12 février 1947. In Morocco. Service de la Recherche Agronomique et de l'Expérimentation Agricole. Étude préliminaire des sols du périmètre irrigable des Srahna, p. 27-29. Rabat, 1948. 56.27 M82
- 32804 GAUBA, E. Contributions to the flora of South Australia. II. *Victorian Nat.* 65: 163-168. Nov. 1948. 410 V66
- 32805 HOWELL, J. T. Base camp botany, 1948. n. p., 1948. 18 p. 455.82 H83  
California.
- 32806 JOVET, P. Florule des ruines de Louviers (Eure). *Feuille des Nat. (n. s.)* 2: 24-25. Feb./Mar. 1947. 410 F432
- 32807 MCDOUGALL, W. B. Plants of Grand Canyon National Park. *Grand Canyon Nat. Hist. Assoc. Nat. Hist. B.* 10, sup. 8 p. July 1948. 410.9 G76
- 32808 PARROT, A. G. Plantes adventices des environs de Luz (Hautes-Pyrénées). *Feuille des Nat. (n. s.)* 2: 10. Jan. 1947. 410 F432
- 32809 PARROT, A. G. Plantes adventices des environs de Luz-Saint-Sauveur (Hautes-Pyrénées). *Feuille des Nat. (n. s.)* 3: 19. Jan./Feb. 1948. 410 F432
- 32810 PORTER, C. L. An annotated list of type specimens in the Rocky Mountain herbarium. *Wyo. U. P.* 13: 25-35. (Cont.) Aug. 15, 1948. 500 W99
- 32811 PRIME, C. T., and DEACOCK, R. J. The shorter British flora. London, Methuen, 1948. 376 p. 458 P93
- 32812 RAVEN, J. E. Alien plant introductions on the Isle of Rhum. *Nature [London]* 163: 104-105. Jan. 15, 1949. 472 N21
- 32813 REGEL, C. Floristische notizen aus Griechenland. (Florae graecae notulae III.) *Österr. Bot. Z.* 95: 243-250. Ref. Nov. 15, 1948. 450 Os7
- 32814 RUNE, O. Some new finds of plants in the mountains of Lycksele Lappmark. (In Swedish.) *Svensk Bot. Tidskr.* 42: 494-497. 1948. 450 Sv2  
English summary.
- 32815 SAINT-PÉRIER, R. DE. Plantes accidentelles en Seine-et-Oise. *Feuille des Nat. (n. s.)* 2: 60. May/June 1947. 410 F432
- 32816 TEREKHOV, A. F. Opredelitel' vesennikh i osennikh rastenii Srednego Povolzh'ia i Zavolzh'ia [A guide to spring and autumn plants of the Central Volga Provinces and the left bank of the Volga]. Ed. 2, rev. & enl. Kuibyshev, Kuibyshevskoe obl. izd-vo, 1948. 462 p. 459.2 T27
- 32817 TILDESLEY, W. Further botany notes for 1948. *Victoria Nat.* 5: 91-93. Feb. 1949. 410 V662
- 32818 TURRILL, W. B. On the flora of St. Helena. *Kew B.* 1948: 358-362. 451 K51B
- 32819 TURRILL, W. B. Winter flora on the Athos Peninsula. *Kew B.* 1948: 328. 451 K51B
- 32820 WOODSON, R. E., JR., and SCHERY, R. W. Flora of Panama. III. *Mo. Bot. Gard. Ann.* 35: 337-468. Feb. 1949. 451 M69

## SYSTEMATIC AND GEOGRAPHIC BOTANY

## General

- 32792 ARTZ, L. Plants of the shale barrens of the tributaries of the James River in Virginia. *Castanea* 13: 141-145. Dec. 1948. 450 So82
- 32793 BARTHOLOMEW, E. A. Flora of Wirt County, West Virginia. *Castanea* 13: 145-166. Dec. 1948. 450 So82
- 32794 BESEMER, A. F. H., and WIJK, R. VAN DER. Flora en fauna. Amsterdam, Breughel, 1948. 698 p. (Natuurhistorische Bibliotheek. 9) 409 B462
- 32795 BIMONT, G. Promenades botaniques autour de Paris. *Feuille des Nat. (n. s.)* 2: 43. Apr. 1947. 410 F432



## Spermatophytes

- 32821 AIRY SHAW, H. K. A note on the euphorbiaceous genus *Botryophora*. Kew B. 1948: 484. 451 K51B
- 32822 ALLAN, H. H. Wild species-hybrids in the phanerogams. II. Bot. Rev. 15: 77-105. Ref. Feb. 1949. 450 B6527
- 32823 AMSHOFF, G. J. H. Enumeration of the herbarium specimens of a Suriname wood collection made by Prof. G. Stahel. The Hague, Nijhoff, 1948. 46 p. (Natuurwetenschappelijke Studiekring voor Suriname en Curaçao, Utrecht. P. 2) 452.54 Am8
- 32824 BACKEBERG, C. New ways in cactology. Cactus and Succulent J. 21: 3-6. (To be cont.) Jan./Feb. 1949. 451 C11
- 32825 BAILEY, L. H. *Rubus* studies—review and additions. Gentes Herb. 7: 481-526. Jan. 1949. 450 B15
- 32826 BALLAND, R. *Stratiotes aloides* L. et *Salvinia natans* Hoffm. dans le sud-ouest de la France. Feuille des Nat. (n. s.) 2: 55-57. May/June 1947. 410 F432
- 32827 BEETLE, A. A. The genus *Aegopogon* Humb. & Bonpl. Wyo. U. P. 13: 17-23. Aug. 15, 1948. 500 W99
- 32828 BEETLE, A. A. The genus *Scirpus* in Wyoming. Wyo. U. P. 13: 1-15. Aug. 15, 1948. 500 W99
- 32829 BERTON, A. *Sium* et *Helosciadum*. —Tussilago et *Petasites*. Structure des pétioles; détermination par les feuilles. Feuille des Nat. (n. s.) 2: 95-96. Sept./Oct. 1947. 410 F432
- 32830 BIMONT, G. Au sujet de *Salvia verbenaea* L. Feuille des Nat. (n. s.) 2: 75. July/Aug. 1947. 410 F432
- 32831 BOITEAU, P., and MANNONI, O. Les *Kalanchoe*. Cactus [Paris] 15/16: 37-42. (Cont.) July/Sept. 1948. 450 C114
- 32832 BOR, N. L. *Bhidea* Stapf; a new genus of Indian grasses. Kew B. 1948: 445-448. 451 K51B
- 32833 BOYCE, S. G. *Quercus imbricaria* in the Lower Piedmont of North Carolina. Castanea 14: 52. Mar. 1949. 450 S62
- 32834 BREMEKAMP, C. E. B. List of the *Acanthaceae* collected in Celebes by Dr. W. Kaudern and Dr. G. Kjellberg. Svensk Bot. Tidskr. 42: 372-403. 1948. 450 Sv2
- Includes new spp. in *Thunbergia*, *Dipteracanthus*, *Hemigraphis*, *Sericocalyx*, *Kjellbergia* n. g., *Hygrophila*, *Dyschoriste*, *Phlogacanthus*, *Pseuderanthemum*, *Peristrophe*, *Hypoestes*, *Strophacanthus*, and *Rungia*.
- 32835 BREMEKAMP, C. E. B. Some new species of *Pavetta* L. from tropical Africa. Kew B. 1948: 350-357. 451 K51B
- 32836 BRENAN, J. P. M. A new species of *Tricalysia* from Tanganyika Territory. Kew B. 1948: 499-500. 451 K51B
- 32837 BROYER, C., and LENOBLE, F. Note complémentaire sur la distribution du *Buxus sempervirens* L. en France. Soc. Bot. de France B. 95: 218-219. May/June 1948. 451 F84B
- 32838 BULLOCK, A. A. On the identity of *Statice tetragona* Thunb. Kew B. 1948: 368. 451 K51B
- 32839 BULLOCK, A. A. *Thonningia* Vahl. Kew B. 1948: 363-367. Ref. 451 K51B
- 32840 BURTT, B. L. On *Erigeron bonariensis* Linn. Kew B. 1948: 369-372. 451 K51B
- 32841 BURTT, B. L. On *Farsetia hamiltonii* Royle. Kew B. 1948: 495-498. 451 K51B
- 32842 BURTT, B. L. Studies in the *Ericales*. IX. The taxonomic position of *Wittsteinia*. Kew B. 1948: 493-495. 451 K51B
- 32843 BUXBAUM, F. Gegen L. Croizat's ansicht über die systematische stellung der *Cactaceae*. Österr. Bot. Z. 95: 336-340. Nov. 15, 1948. 450 Os7
- 32844 CANADA. FOREST SERV. Checklist of the native trees of Canada; coniferous species. Ottawa? 1948? 4 p. 99.3 C16
- 32845 CHAMPION, J. Classification, origine et répartition géographique des espèces du genre *Musa*. Fruits d'Outre Mer 4: 16-24. (Cont.) Jan. 1949. 80 F9492
- 32846 CHATTERJEE, D. *Acacia chundra* or *Acacia sundra*? Sci. & Cult. 14: 290-291. Jan. 1949. 475 Sci24
- 32847 CHATTERJEE, D. Correct name of *Corchorus antichorus* Raeusch. Kew B. 1948: 372-373. 451 K51B
- 32848 CHATTERJEE, R., and LAHIRI, J. K. Studies on Indian belladonna. Amer. Pharm. Assoc. J. Sci. Ed. 38: 11-13. Ref. Jan. 1949. 396.9 Am33J
- 32849 CHEESMAN, E. E. Classification of the bananas. III. Kew B. 1948: 323-328. 451 K51B
- 32850 CHEVALIER, A. Sur les prétendus *Landolphia's* d'Amérique tropicale. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 28: 453-456. Sept./Oct. 1948. 26 R323
- 32851 CHO, J. H., and LI, L. Y. A preliminary list of trees and shrubs of the campus of Fukien Christian University. (In Chinese.) Fukien Agr. J. 9: 91-98. June 1948. 22.5 F95
- English summary.
- 32852 CLAUSEN, R. T. *Carlina vulgaris* in the Cayuga quadrangle, 42-43 N., 76-77 W. Rhodora 51: 33-34. Mar. 1949. 450 R34
- 32853 CONSTANCE, L., and SHAN, R. H. The genus *Osmorhiza* (Umbelliferae): a study in geographic affinities. Calif. U. P. Bot. 23: 111-155. Ref. 1948. 500 C125B
- 32854 CONSTANCE, L. A revision of *Phacelia* subgenus *Cosmanthus* (Hydrophyllaceae). Gray Herbarium. Harvard U. Contrib. 168, 48 p. Ref. 1949. 451 G792
- 32855 CORY, V. L. African rue (*Peganum harmala* L.) in the United States. Field & Lab. 17: 20-23. Jan. 1949. 470 F46
- 32856 COVAS, G. Taxonomic observations on the North American species of *Hordeum*. Madrono 10: 1-21. Ref. Jan. 1949. 450 M26
- 32857 CUATRECASAS, J. Studies in South American plants. I. *Lloydia* 11: 185-225. Sept. 1948. 442.8 L77
- Includes new spp. in: *Quararibea*, *Hampea*, *Weinmannia*, *Ilex*, *Meliosma*, *Citronella*, *Tapura*, *Dichapetalum*, and *Perrottetia*.
- 32858 CUGNAC, A. DE. Sur la signification systématique de quelques expériences de croisement entre des Graminées appartenant à des genres éloignés dans la classification: *Elymus*, *Festuca*, *Lolium*, *Dactylis*. Paris. Acad. des Sci. Compt. Rend. 228: 422-423. Jan. 31, 1949. 505 P21
- 32859 DAHLGREN, K. V. O. *Verbascum nigrum* x *phlomoides* [a spontaneous hybrid new to Sweden]. (In Swedish.) Svensk Bot. Tidskr. 42: 484-486. 1948. 450 Sv2
- English summary.
- 32860 DALLIMORE, W. A handbook of *Coniferae* including *Ginkgoaceae*. Ed. 3. London, Arnold, 1948. 682 p. 452.3 D16H
- 32861 DUFFIELD, J. W., and CUMMING, W. C. Does *Pinus ponderosa* occur in Baja California? Madrono 10: 22-24. Jan. 1949. 450 M26
- 32862 DU RIETZ, G. E. Taxonomical notes on some Tasmanian species of *Euphrasia*. II. *Euphrasia collina* R. Br. and *E. gunnii* Du Rietz nov. nom. Svensk Bot. Tidskr. 42: 348-363. Ref. 1948. 450 Sv2
- 32863 EIG, A. Diagnoses specierum novarum palaestinae. Palestine J. Bot., Jerusalem Ser. 4: 171-173. Mar. 1948. 450 P17
- New spp. in: *Alyssum*, *Reseda*, *Stachys* and *Eremostachys*.
- 32864 FEINBRUN, N. Further studies on *Allium* of Palestine and the neighbouring countries. Palestine J. Bot., Jerusalem Ser. 4: 144-157. Ref. Mar. 1948. 450 P17
- 32865 FERNALD, M. L., and SCHUBERT, B. G. Some identities in *Breweria*. Rhodora 51: 35-43. Mar. 1949. 450 R34
- Contributions from the Gray Herbarium of Harvard University. CLXIX. 1.
- 32866 FERNALD, M. L. Studies of eastern American plants. II. Rhodora 51: 43-57. Mar. 1949. 450 R34
- 1, Blackberries, old and new; 2, Rhizome-characters in and minor forms of *Viola*.
- Contributions from the Gray Herbarium of Harvard University. CLXIX. 2.
- 32867 FISCHER, W. Von unseren einheimischen orchideen. Kosmos 44: 115-119. Apr./May 1948. 474 K842



- 32868 FLORSCHÜTZ, P. A. Our native succulents. (In Dutch.) Succulenta 1949: 6-9. Jan./Feb. 1949. 450 Su12
- 32869 GERSTNER, J. Further notes on South African Sapotaceae. J. So. African Bot. 14: 171-174. Oct. 1948. 450 J262
- 32870 HAGLUND, G. E. Further contributions to the knowledge of the Taraxacum flora of Alaska and Yukon. Svensk Bot. Tidskr. 42: 297-336. Ref. 1948. 450 Sv2
- 32871 HARPER, R. M. A fifth species of Erythronium in Alabama. Castanea 14: 49-52. Mar. 1949. 450 So82
- 32872 HERRICK, A. C. Iris vicaria and Iris graeberiana. Iris Ybk. 25: 97-98. 1948. 84 Ir4
- 32873 HERTRICH, W. Observations on the genus Cereus. Cactus and Succulent J. 21: 17-22. Jan./Feb. 1949. 451 C11
- 32874 HOUGHTON, F. Mimulus and Corydalis. Sanctuary News 8(4): 16-18. Jan. 1949. 410 Sa5
- 32875 HOWARD, R. A. Atkinsia gen. nov., Thespesia, and related West Indian genera of the Malvaceae. Torrey Bot. Club. B. 76: 89-100. Mar./Apr. 1949. 451 T63B
- 32876 HUBBARD, M. Recognition of conifers in Britain. Timber News 56: 465-466. Dec. 1948. 99.81 T482
- 32877 HUMBERT, H. Un genre nouveau [Gladiopap-pus] remarquable de Mutisiées à Madagascar. Soc. Bot. de France B. 95: 181-183. May/June 1948. 451 F84B
- 32878 HUNNEWELL, F. W. Diervilla sessilifolia in Virginia. Rhodora 51: 60. Mar. 1949. 450 R34
- 32879 JACOBSEN, H. A survey of succulent genera (excluding cacti). Cactus & Succulent J. Gt. Brit. 11: 6-7. Jan. 1949. 450 C113
- 32880 JAEGER, P., and SUMMERHAYES, V. S. Note sur quelques orchidées récoltées dans les Monts Loma (Sierra-Leone) et les contrées limitrophes. Kew B. 1948 475-483. 451 K51B
- 32881 JOVET, P. Lagoseris sancta (L.) Maly subsp. nemausensis (Gouan) Thell. = Pterotheca santa L. = P. nemausensis Cass. Feuille des Nat. (n. s.) 2: 9. Jan. 1947. 410 F432
- 32882 KECK, D. D. Hemizonella becomes a Madia. Madroño 10: 22. Jan. 1949. 450 M26
- 32883 KREUZINGER, K. G., and BUINING, A. F. H. Gymnocalycium valnkeianum Jajó. (In Dutch.) Succulenta 1949: 3-4. Jan./Feb. 1949. 450 Su12
- 32884 LEE, R. D. "Cup-flowers" [Angianthus preissianus]. Victorian Nat. 65: 177-178. Nov. 1948. 410 V66
- 32885 LI, H. L. A revision of the genus Pedicularis in China. I. Acad. Nat. Sci. Phila. Proc. 100: 205-378. 1948. 500 P53
- 32886 LITARDIÈRE, R. DE. Nouvelles observations sur les Phleum pratense L. subsp. alpinum (L.) Asch. et Graebn. des Pyrénées. Paris. Acad. des Sci. Compt. Rend. 228: 349-351. Jan. 31, 1949. 505 P21
- 32887 MCVAUGH, R. Studies in South American Lobelioideae (Campanulaceae) with special reference to Colombian species. Brittonia 6: 450-493. Feb. 21, 1949. 450 B77
- Includes new spp. in Siphocampylus and Centropogon.
- 32888 MIÈGE, J. Le Dioscorea esculenta Burkill en Côte d'Ivoire. Rev. Internat. de Bot. Appl. et d'Agr. Trop. 28: 509-514. Nov./Dec. 1948. 26 R323
- 32889 MILNE-REDHEAD, E., and others. Tropical African plants. XX. Kew B. 1948: 449-473. 451 K51B
- N. E. B. Bremekamp, E. A. Bruce, and Melke, joint authors.
- New spp. in: Robbairia, Hypericum, Enterospermum, Otomeria, Rauwolfia, Ceropegia, Lightfootia, Lippia, Crocosmia, and Eriocaulon.
- 32890 NEGRI, G. Erbario figurato, descrizione e proprietà delle piante medicinali e velenose della flora italiana con cenni sulle principali specie dell'Africa settentrionale ed orientale [Illustrated herbarium, descriptions and properties of medicinal and poisonous plants of the Italian flora with a list of the principal species of north and east Africa]. Ed. 4. Milano, Hoepli, 1948. 459 p. 459.8 N312
- 32891 NEHOU, J. Quelques phanérogames adventices nouvelles dans la région nantaise. Soc. Bot. de France B. 95: 193-195. May/June 1948. 451 F84B
- 32892 PARODI, L. R. Una nueva especie de gramínea argentina del género Muhlenbergia [M. atacamensis]. Rev. Argentina de Agron. 15: 248-253. Dec. 1948. 9 R327
- 32893 PARROT, A. G. À propos du Pterotheca nemausensis Cass. Feuille des Nat. (n. s.) 2: 61. May/June 1947. 410 F432
- 32894 PICKWELL, G. The pines of California. Pacific Discovery 1(6): 15-21. Ref. Nov./Dec. 1948. 500 P112
- 32895 RIOUX, J., and QUEZEL, P. Solanum sisymbriifolium Lam., adventice des environs de Montpellier. Feuille des Nat. (n. s.) 2: 110. Nov./Dec. 1947. 410 F432
- 32896 RUPP, H. M. R. Oberonia muelleriana Schltr. Queensland Nat. 13: 116-118. Dec. 1948. 410 Q3
- 32897 RUPP, H. M. R. What is Caladenia gracilis R. Br.? Victorian Nat. 65: 173-176. Nov. 1948. 410 V66
- 32898 RYCHIN, IŮ. V. Flora gigrofitov; opredelitel' po vegetativnym priznakam sosudistyykh rasteniy vodoe-mov i syrykh i vlazhnykh mestoobitanii (sentrāl'noi chasti Evropejskoj territorii SSSR [Hygrophyte flora; identification by the vegetative characteristics of vascular plants from reservoirs, wet, and moist habitats of the central European territory of U. S. S. R.]. Moskva, "Sovetskaja Nauka," 1948. 447 p. 463.82 R96
- 32899 ST. JOHN, H., and KUYKENDALL, J. R. Revision of the native Hawaiian species of Gardenia (Rubiaceae). Hawaiian Plant Studies. 15. Brittonia 6: 431-449. Feb. 21, 1949. 450 B77
- 32900 SANTAPAU, H. Novitates bombayenses. Kew B. 1948: 485-492. 451 K51B
- Includes new spp. in: Pimpinella, Canscora, Gymnema, Barleria, and Achyranthes.
- 32901 SCHNARF, K. Der umfang der Lilioideae im natürlichen system. Österr. Bot. Z. 95: 257-269. Ref. Nov. 15, 1948. 450 Os7
- 32902 SCHNEIDER, C. L. Natural establishment of Eucalyptus in California. Madroño 10: 31-32. Jan. 1949. 450 M26
- 32903 SHINNERS, L. H. Nomenclature of species of dandelion and goatsbeard (Taraxacum and Tragopogon) introduced into Texas. Field & Lab. 17: 13-19. Ref. Jan. 1949. 470 F46
- 32904 SHINNERS, L. H. Notes on Texas Compositae. I. Field & Lab. 17: 23-30. Jan. 1949. 470 F46
- Includes new spp. in Palafoxia and Cirsium.
- 32905 SHURLY, E. Mammillaria schwarzii spec. nova. Cactus & Succulent J. Gt. Brit. 11: 17. Jan. 1949. 450 C113
- 32906 SÖDERBERG, E. Arctium palladinii (Marc.) R. E. Fr. et Söderb. in Stockholm. (In Swedish.) Svensk Bot. Tidskr. 42: 497-498. 1948. 450 Sv2
- 32907 SURINAME timbers. I. Utrecht, 1948. 59 p. (Natuurwetenschappelijke Studiekkring voor Suriname en Curaçao, Utrecht. P. 3) 99.8 Su7
- I, General introduction, Guttiferae, Vochysiaceae, Anacardiaceae and Icacinaceae, by A. M. W. Mennega.
- 32908 SWALLEN, J. R. New grasses from Honduras Colombia, Venezuela, Ecuador Bolivia, and Brazil. U. S. Natl. Mus. Contrib. U. S. Natl. Herb. 29: 251-275. 1948. 450 C76
- 32909 TARDIEU-BLOT. Celastraceae nouvelles d'Indochine. II. Soc. Bot. de France B. 95: 179-180. May/June 1948. 451 F84B
- New spp. in Phanrangia n. g.; Quadripterygium n. g.; Euonymus; and Celastrus.
- 32910 TAUGOURDEAU, P. H. Une station de Pannaria rubiginosa (Del) var conoplea (Nyl) fructifié. Feuille des Nat. (n. s.) 2: 110. Nov./Dec. 1947. 410 F432
- 32911 UITEWAAL, A. J. A. Gasteria verrucosa (Mill.) Duval. (In Dutch.) Succulenta 1949: 10-13. Jan./Feb. 1949. 450 Su12
- 32912 VENARD, H. A necessary transfer in Liatris. Rhodora 51: 34-35. Mar. 1949. 450 R34
- 32913 WATERFALL, U. T. A new species of Sarcostemma from Oklahoma. Rhodora 51: 58-59. Mar. 1949. 450 R34
- 32914 WEBB, D. A. Some observations on the Arbutus in Ireland. Irish Nat. J. 9: 198-203. Oct. 1948. 410 Ir42



32915 WIGGINS, I. L. Some notes on the genus *Galvezia* Dombey, and on the taxonomy of *Galvezia juncea* (Benth.) Ball. *Madroño* 10: 25-30. Ref. Jan. 1949. 450 M26

32916 ZOHARY, M. *Echinosciadium*, a new genus of Umbelliferae from Arabia. *Palestine J. Bot., Jerusalem Ser.* 4: 174-176. Mar. 1948. 450 P17

#### Pteridophytes

32917 BALLARD, F. Further notes on *Onocleopsis*. *Amer. Fern J.* 38: 125-132. Oct./Dec. 1948. 450 Am35

32918 BENEDICT, R. C. Fern miscellany: Brooklyn. *Amer. Fern J.* 38: 148-154. Oct./Dec. 1948. 450 Am35

32919 BLOMQUIST, H. L. *Asplenium monanthes* in South Carolina. *Amer. Fern J.* 38: 171-176. Oct./Dec. 1948. 450 Am35

32920 CAMPBELL, D. H. Notes on the geographical distribution of ferns. *Amer. Fern J.* 38: 122-125. Oct./Dec. 1948. 450 Am35

32921 CHANDLER, A. *Dryopteris* hybrids. *Amer. Midland Nat.* 40: 763-773. Nov. 1948. 410 M58

32922 CHRYSLER, M. A. Origin of the West Indian fern flora. *Amer. Fern J.* 38: 135-142. Oct./Dec. 1948. 450 Am35

32923 CLAUSEN, R. T. The *Ophioglossum* of the Falkland Islands and the relationships and distribution of *Ophioglossum crotalophoroides*. *Amer. Fern J.* 38: 176-186. Oct./Dec. 1948. 450 Am35

32924 COPELAND, E. B. A new *Athyrium* with reticulate venation. *Amer. Fern J.* 38: 132-134. Oct./Dec. 1948. 450 Am35

32925 DOIGNON, P. *Hymenophyllum unilaterale* dans le Finistère. *Feuille des Nat. (n. s.)* 2: 27-28. Feb./Mar. 1947. 410 F432

32926 DOIGNON, P. *Pilularia globulifera* à Fontainebleau. *Feuille des Nat. (n. s.)* 2: 26-27. Feb./Mar. 1947. 410 F432

32927 KUPKA, H. Die vermehrungsarten von *Adiantum nephrolepis*, *Pteris* und *Asplenium*. *Gärt.-Kurier* 4(1): 2-3. Jan. 1, 1949. 80 G1942

32928 MERRILL, E. D. Unlisted fern names of Alphonso Wood. *Amer. Fern J.* 38: 142-147. Oct./Dec. 1948. 450 Am35

32929 MORTON, C. V. Bibliography of William R. Maxon. *Amer. Fern J.* 38: 106-117. Oct./Dec. 1948. 450 Am35

32930 MORTON, C. V. Notes on *Elaphoglossum*. II. The species of the French West Indies. *Amer. Fern J.* 38: 202-215. Oct./Dec. 1948. 450 Am35

32931 PARROT, A. G. Une riche station de fougères: le ravin du Pont Napoléon à Luz-Saint-Sauveur (Hautes-Pyrénées). *Feuille des Nat. (n. s.)* 2: 98. Sept./Oct. 1947. 410 F432

32932 SVENSON, H. K. *Dryopteris simulata*. *Amer. Fern J.* 38: 195-201. Oct./Dec. 1948. 450 Am35

32933 TRYON, R. M., JR. Some Woodsias from the north shore of Lake Superior. *Amer. Fern J.* 38: 159-170. Oct./Dec. 1948. 450 Am35

32934 WAGNER, W. H., JR., and GREY, D. F. The pteridophytes of the Admiralty Islands. *Calif. U. P. Bot.* 23: 17-109. 1948. 500 C125B

32935 WHERRY, E. T. Remarks on the American Lady Ferns [*Athyrium*]. *Amer. Fern J.* 38: 155-158. Ref. Oct./Dec. 1948. 450 Am35

32936 WIGGINS, I. L. Notes on a collection of ferns from the vicinity of Cayambe Peak, Ecuador. *Amer. Fern J.* 38: 186-194. Oct./Dec. 1948. 450 Am35

#### Bryophytes

32937 ALLORGE, V., and ALLORGE, P. Végétation bryologique de l'île de Flores (Açores). *Rev. Bryologique et Lichénologique (n. s.)* 17: 126-164. Ref. 1948. 450 R325

32938 BARTRAM, E. B. Mosses of Guatemala. *Fieldiana. Bot.* 25, 442 p. Ref. Jan. 31, 1949. 500 C432B

32939 BERGHEN, C. V. Notes sur quelques Lejeunées de l'Afrique centrale. *Rev. Bryologique et Lichénologique (n. s.)* 17: 91-100. 1948. 450 R325

32940 BERGHEN, C. V. Un nouveau genre d'Hépatiques *Evansiolejeunea* nov. gen. *Rev. Bryologique et Lichénologique (n. s.)* 17: 86-90. 1948. 450 R325

32941 BERNER, L. Les Muscinées des environs de Marseille. *Rev. Bryologique et Lichénologique (n. s.)* 17: 55-72. Ref. 1948. 450 R325

32942 DOIGNON, P. Bryoflore des grès calcaireux du Massif de Fontainebleau. *Rev. Bryologique et Lichénologique (n. s.)* 17: 47-52. 1948. 450 R325

32943 DOIGNON, P. Microlocalités des *Hypnum* cupressiforme observés à Fontainebleau. *Feuille des Nat. (n. s.)* 3: 20. Jan./Feb. 1948. 410 F432

32944 DOIGNON, P. Les sphaignes du Massif de Fontainebleau; une espèce nouvelle pour la Forêt. *Feuille des Nat. (n. s.)* 2: 75. July/Aug. 1947. 410 F432

32945 GAUME, R. Les Bryophytes atlantiques des environs de Paris. *Rev. Bryologique et Lichénologique (n. s.)* 17: 40-46. Ref. 1948. 450 R325

32946 GUILLAUMOT, M. Note sur le *Mnium stellare*. *Rev. Bryologique et Lichénologique (n. s.)* 17: 175. 1948. 450 R325

32947 JELENC, F. Sur l'extension dans le bassin méditerranéen de certaines Muscinées de la Péninsule ibérique. *Rev. Bryologique et Lichénologique (n. s.)* 17: 75-78. Ref. 1948. 450 R325

32948 JOVET-AST, S. *Bazzania tricenata* (Wahl.) Trevis. aux Açores. *Rev. Bryologique et Lichénologique (n. s.)* 17: 174. 1948. 450 R325

32949 JOVET-AST, S. Hépatiques des Antilles françaises récoltées par P. et V. Allorge en 1936. II. *Rev. Bryologique et Lichénologique (n. s.)* 17: 24-34. 1948. 450 R325

Includes new spp. in *Amblyolejeunea*, *Colura*, and *Diplasiolejeunea*.

32950 MEIJER, W. La flore des Bryophytes du Lac de Naarden. *Rev. Bryologique et Lichénologique (n. s.)* 17: 101-118. Ref. 1948. 450 R325

32951 PARRIAT, H. Mousses nouvelles du Val de Peisey. *Rev. Bryologique et Lichénologique (n. s.)* 17: 53-54. 1948. 450 R325

32952 PATTERSON, P. M. The Bryophytes of Virginia. I. Bryophytes reported in the literature. *Castanea* 14: 1-49. Ref. Mar. 1949. 450 So82

32953 PERSSON, H. On the discovery of *Merceya ligulata* in the Azores with a discussion of the so-called "copper mosses." *Rev. Bryologique et Lichénologique (n. s.)* 17: 75-78. Ref. 1948. 450 R325

32954 POTIER DE LA VARDE, R. Contribution à la flore bryologique de Sierra Leone. *Rev. Bryologique et Lichénologique (n. s.)* 17: 16-23. 1948. 450 R325

Includes new spp. in *Leucoloma*, *Bryum*, *Trichosteleum* and *Glossadelphus*.

32955 SAINSBURY, G. O. K. Synonyms of some New Zealand mosses. *Rev. Bryologique et Lichénologique (n. s.)* 17: 79-85. 1948. 450 R325

#### Algae

32956 ABDIN, G. Physical and chemical investigations relating to algal growth in the river Nile, Cairo. *Inst. d'Égypte. B.* 29: 19-44. Ref. 1948. 515 Eg9

32957 ABDIN, G. Seasonal distribution of phytoplankton and sessile algae in the river Nile, Cairo. *Inst. d'Égypte. B.* 29: 369-382. Ref. 1948. 515 Eg9

32958 BOURRELLY, P. Un nouveau cas de convergence morphologique entre *Chrysophycées* et *Chlorophycées*: *Heimiochrysis actinotrichia* (nov. gen. et sp.) *Paris. Acad. des Sci. Compt. Rend.* 228: 272-273. Jan. 17, 1949. 505 P21

32959 BRITTON, M. E. New species of *Oedogonium* from Leyte, the Philippine Islands. *Amer. J. Bot.* 35: 715-719. Dec. 1948. 450 Am36

32960 CHADEFAUD, M. Une diatomée marine à fucosane. *Paris. Acad. des Sci. Compt. Rend.* 228: 270-271. Jan. 17, 1949. 505 P21

*Licmophora lyngbiei*.

32961 CORILLION, R. Les associations de Charophycées de l'Ouest et du Nord-Ouest de la France. *Paris. Acad. des Sci. Compt. Rend.* 228: 596-598. Feb. 14, 1949. 505 P21

32962 KOLBE, R. W. Einige bemerkenswerte diatomeen aus schwedischen gewässern. *Svensk Bot. Tidskr.* 42: 457-466. Ref. 1948. 450 Sv2

32963 KRASSKE, G. Diatomeen tropischer moosrasen. *Svensk Bot. Tidskr.* 42: 404-443. Ref. 1948. 450 Sv2



32964 LOEB, W. Eine besondere art von süßwas-seralgen. Kosmos 44: 166-167. June 1948. 474 K842 Chara fragilis.

32965 PARIS. MUSÉUM NATIONAL D'HISTOIRE NATURELLE. LABORATOIRE DE CRYPTOLOGIE. Catalogues des collections vivantes, herbiers et docu-ments. Paris, 1948. 20 p. 451 P212 I, Algothèque.

32966 SILVA, H. A review of freshwater phycologi-cal research in southeastern United States. Castanea 13: 133-141. Ref. Dec. 1948. 450 So82

32967 TSCHERMAK-WOESS, E. Über wenig bekannte und neue flechtengonidien. I. Chlorella ellipsoi-dea Gerneck, als neue flechtenalge. Österr. Bot. Z. 95: 341-343. Ref. Nov. 15, 1948. 450 Os7

#### Fungi (Including Lichens)

32968 BERGGREN, G. Aleuria proteana Boud. found in Sweden. (In Swedish.) Svensk Bot. Tidskr. 42: 492-494. 1948. 450 Sv2 English summary.

32969 BUCHWALD, N. F. Mycology. In The hu-manities and the sciences in Denmark, p. 300-305. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882

32970 COOK, M. T. Species of Synchronium in Loui-siana. V. A new species on Sambucus canadensis. Myco-logia 41: 24-27. Jan./Feb. 1949. 450 M99 Synchronium canadensis.

32971 CORTESI, F. I funghi mangerecci e velenosi. Roma, Ramo Editoriale degli Agricoltori, 1948. 168 p. (Biblioteca per l'Insegnamento Agrario Professionale. 155-157) 462.5 C81

32972 DA COSTA, G. C., and MUNDKUR, B. B. A revision of the genus Phyllosticta in India. Natl. Inst. Sci. India. Proc. 14: 55-63. Feb. 1948. 513 N212

32973 DIEHL, W. W. Article 64 and the nomencla-ture of lichens. Mycologia 41: 89-91. Jan./Feb. 1949. 450 M99

32974 DOIGNON, P. Lichens hétéromères inédits du Massif de Fontainebleau. Feuille des Nat. (n. s.) 2: 102. Sept./Oct. 1947. 410 F432

32975 GALLØE, O. Natural history of the Danish lichens. VII. Copenhagen, Munksgaard, 1948. 62 p., 101 pl. 461.5 G13N

32976 GOLDSMITH, E. P. Observations on some water fungi collected in and around Johannesburg. J. So. African Bot. 14: 135-158. Ref. Oct. 1948. 450 J262

32977 GRELET, L. J. Les Discomycètes de France d'après la classification de Boudier. 18. Rev. de Mycol. (n. s.) 13: 105-134. Oct. 1, 1948. 450 An74 Includes Lambertella bouchetii n. sp.

32978 GROVES, J. W., and LEACH, A. M. The spe-cies of Tympanis occurring on Pinus. Mycologia 41: 59-76. Ref. Jan./Feb. 1949. 450 M99

32979 HEIM, R. Les champignons, tableaux d'un monde étrange. Paris, Éditions Alpina, 1948. 141 p. 462.5 H36

32980 HOLM, L. Taxonomical notes on Ascomycetes I. The Swedish species of the genus Ophiobolus Riess sensu Sacc. Svensk Bot. Tidskr. 42: 337-347. 1948. 450 Sv2

32981 HOWARD, H. J. The Mycetozoa of sand-dunes and marshland. So.-East. Nat. & Antiquary 53: 26-30. 1948. 501 So82

32982 JOSSERAND, M. Description et sporogénèse d'un coprin nouveau: Coprinus hexagonosporus. Rev. de Mycol. (n. s.) 13: 82-91. Oct. 1, 1948. 450 An74

32983 KÜHNER, R. Observations sur Coprinus hexa-gonosporus en culture pure. Rev. de Mycol. (n. s.) 13: 92-104. Oct. 1, 1948. 450 An74

32984 KUHNHOLTZ-LORDAT, G. Une station à parasites. Feuille des Nat. (n. s.) 2: 69-70. July/Aug. 1947. 410 F432

Fungi found in the Département de l'Herault.

32985 LESDAIN, M. B. DE. Notes lichénologiques. XXXIII. Soc. Bot. de France B. 95: 196-200. May/June 1948. 451 F84B

New spp. in Lecanora, Pertusaria, Lecania, Toninia, Bacidia, Verrucaria, and Crocynia.

32986 LING, L. Nota sinónfmica sobre Cintractia peribebuyensis. Rev. Argentina de Agron. 15: 254-255. Dec. 1948. 9 R327

32987 LING, L., and STEVENSON, J. A. A note on the genus Kuntzeomyces. Mycologia 41: 87-89. Jan./Feb. 1949. 450 M99

32988 MCINTYRE, R. N. Indian paint and quinine fungus collected. Yosemite Nature Notes 28: 4-6. Jan. 1949. 409.6 Y8

Echinodontium tinctorium and Fomes officinalis.

32989 MARTIN, G. W. The genus Ceracea Cragin. Mycologia 41: 77-86. Jan./Feb. 1949. 450 M99

32990 MEYER, S. L. Some Xylarias from Panama. Mycologia 41: 91-92. Jan./Feb. 1949. 450 M99

32991 MOREAU, C., and MOREAU, M. Microflore fongique du département de l'Aisne. I-II. Feuille des Nat. (n. s.) 2: 41-42, 99-100. Apr., Sept./Oct. 1947. 410 F432

32992 OZENDA, P. Lichens de l'Estérel et du Tanneron. Rev. Bryologique et Lichénologique (n. s.) 17: 165-169. 1948. 450 R325

32993 RONDON, Y. Le Parmelia acetabulum en montagne. Feuille des Nat. (n. s.) 2: 26. Feb./Mar. 1947. 410 F432

32994 SACCAS, A. Etude morphologique et biologi-que d'un nouveau champignon papyricole, le Beauveria heimii sp. nov. Rev. de Mycol. (n. s.) 13: 61-81. Ref. Oct. 1, 1948. 450 An74

32995 SCOGGAN, H. J. Pioneer plants. Canad. Na-ture 11: 22-25. Jan./Feb. 1949. 410 C16 Lichens.

32996 SPARROW, F. K., and ELLISON, B. Olpidiop-sis schenkiana and its hyperparasite Ectrogella besseyi n. sp. Mycologia 41: 28-35. Ref. Jan./Feb. 1949. 450 M99

32997 SUMSTINE, D. R. The Albert Commons col-lection of fungi in the Herbarium of the Academy of Natu-ral Sciences in Philadelphia. Mycologia 41: 11-23. Jan./Feb. 1949. 450 M99

32998 TOMASELLI, R. Aperçu sur quelques asso-ciations de lichens cryptophiles en France méridionale (Lot, Tarn, Hérault). Rev. Bryologique et Lichénologi-que (n. s.) 17: 170-173. 1948. 450 R325

32999 WINITZKY, J. Las especies de "Aspergillus" en muestras de tierra y aire de la ciudad de Buenos Aires. Argentina. Dir. Gen. de Labs. e Invest. Rev. de Invest. Agr. 2: 97-104. Ref. July 1948. 9 R329

33000 ZELLER, S. M. Keys to the orders, families, and genera of the Gasteromycetes. Mycologia 41: 36-58. Ref. Jan./Feb. 1949. 450 M99

#### PATHOLOGY

##### General

33001 ABBOTT, R. T. March of the giant African snail [Achatina fulica]; its sudden advance around half the circumference of the world is a serious menace to agri-culture. Nat. Hist. 58: 68-71. Feb. 1949. 500 N483J

33002 AKELEY, R. V., STEVENSON, F. J., and SCHULTZ, E. S. Kennebec: a new potato variety resist-ant to late blight, mild mosaic, and net necrosis. Amer. Potato J. 25: 351-361. Oct. 1948. 75.8 P842

33003 ANTO. Les galles de Macédoine. (In Croa-tian.) Glasnik za Sumske Pokuse 9: 43-94. Ref. 1948. 99.9 Z1

French summary.

33004 BAIN, D. C. Study treatment of sweetpotatoes at Truck Station. Miss. Farm Res. [Miss. Sta.] 12: 7. Jan. 1949. 100 M69Mi

33005 BALSAC, H. H. DE. Mammalogie agricole; Pots-trappes. Dispositif de lutte contre les rongeurs ravageurs des cultures. Efficacité; inconvénients. Acad. d'Agr. de France. Compt. Rend. 34: 1022-1024. Dec. 8/22, 1948. 14 P215Bc

33006 BARTHOLOMEW, E. T. When insecticides injure plants. West. Grower & Shipper 20(3): 14-15. Feb. 1949. 280.38 W52

33007 BEDOUET, J. Le noircissement interne des tubercules. Pomme de Terre Franç. 12(113): 27-28. Jan. 1949. 75.8 P77

33008 BEHR, L. Gibt es eine therapie in der pflanzenpathologie? Ceres [Hamburg] 1948(5/6): 15. 80 C332

33009 BERLIN. BIOLOGISCHE ZENTRALANSTALT FÜR LAND- UND FORSTWIRTSCHAFT. Anleitung zur bestimmung und bekämpfung der wichtigsten schädigungen der kulturpflanzen. II. Gemüse- und obstbau. Ed. 8. Berlin, 1948. 72 p. 464 B453

33010 BODE, L. La degenerescence des vignobles. Petit Casablançais 30, i. e. 32(1354): 6. Feb. 21, 1948. 280.8 P44



- 33011 BROOKS, F. A. Notes on a major freeze. *Calif. Citrog.* 34: 192, 218. Mar. 1949. 80 C125
- 33012 BRUNESE, F. Advantages of winter spraying of fruit plants. (In Italian.) *Mezzogiorno Agr.* 5(1): 2. Jan. 2, 1949. 16 M57
- 33013 BUCHWALD, N. F. Plant pathology. In *The humanities and the sciences in Denmark*, p. 584-588. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- 33014 BURRELL, A. B. Partial concentrates for air-blast sprayers. Successful for scab. *Amer. Fruit Grower* 69(2): 28, 46. Feb. 1949. 80 G85
- 33015 BUSH, R. Disease resistance in apples and pears. *Amateur Gard. Ann.* 1949: 24. 80 Am12
- 33016 CALVINO, M. Infected flower bulbs from Holland. (In Italian.) *Glor. di Agr.* 59: 30. Jan. 23, 1949. 16 It1G
- 33017 CANADIAN PHYTOPATHOLOGICAL SOCIETY. Proceedings, fifteenth session, June 21-24, 1948, Guelph, Ont. n. p., 1949. 23 p. 464.9 C162
- 33018 COSTA, A. S., and FORSTER, R. Occurrence of a disease similar to "frenching" in a tobacco plantation at Piracicaba. (In Portuguese.) *Biológico* 14: 171. July 1948. 442.8 B529
- 33019 COX, C. E., MOORE, J. E., and SMOOT, J. J. Results of spraying tomatoes for disease control in Maryland. *Peninsula Hort. Soc. Trans.* 62: 103-110. 1948. 81 P37
- 33020 DERMINE, E. Perplexité en matière de pulvérisations hivernales. *Fruit Belge* 17(sup.): 16. Jan. 1949. 80 F9493
- 33021 DEUSSER, K. Mehr und bessere wundbehandlung an unseren obstäumen. *Gartenjahr* 4: 23-25. Feb. 1949. 80 G1932
- 33022 DEZEEUW, D. J. Efficient control of cucumber diseases. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 209. Mar. 1949. 389.8 F94
- 33023 DICKEY, R. D. Cold injury to dormant buds of two tung varieties and its effect on yields. *Amer. Soc. Hort. Sci. Proc.* 52: 115-116. Nov. 1948. 81 S12
- 33024 DREISEITL, H. Neue methode in der obstwinterspritzung. *Salzburg. Bauer* 4(1): 4. Jan. 6, 1949. 19 Sn3
- 33025 DU PLESSIS, S. J. Root rot in corn. (In Afrikaans.) *Landman [Monthly]* 31(16): 6-7. Nov. 1948. 24 L233
- 33026 DU PREEZ, D. The dropping of immature figs. *Farming So. Africa* 23: 817-818, 822, 830. Dec. 1948. 24 So842
- 33027 EDMUNDS, F. Careful rose gardener sprays twice during dormant season in winter. *Sunday Oregonian, Farm, Home, Gard.* 1949: 4. Jan. 23, 1949. 6 Su7
- 33028 FINLEY, J. Mouse control in orchards. *Wash. State Hort. Assoc. Proc.* 44: 129-130. 1948. 81 W273
- 33029 FOLSOM, D. Comparative effects of certain sulphur fungicides on McIntosh apple trees. *Maine. Agr. Expt. Sta. B.* 464, 31 p. Ref. Dec. 1948. 100 M28S
- 33030 FORUM—insecticides and fungicides. *Natl. Shade Tree Conf. Proc.* 24: 58-64. 1948. 99.9 N218
- 33031 FRASER, H. Currant eelworm and midge [*Dasyneura tetensi*]. *Gard. Illus.* 66: 56. Mar. 1949. 80 G169
- 33032 GALLETTI, A. C. Cold injuries; olive scab. (In Italian.) *Terra [Firenze]* 59(49): 3. Dec. 5, 1948. 16 T274
- 33033 GARRIGUES, E. Sur le court-noué de la vigne. *Potasse* 23: 8. Jan. 1949. 57.8 P84  
Also in *Voix des Colons* 31(1492): 3. Feb. 21, 1949. 24 V85
- 33034 GIULIANELLI, E. Winter treatment of fruit trees. (In Italian.) *Agr. Romagna* 1949(2): 1. Jan. 20, 1949. 16 Ag828
- 33035 GLEISBERG, J. Beobachtungen bei der durchführung der gemüsesaaten-erkennung. *Ceres [Hamburg]* 1948(9): 12. Sept. 1948. 80 C332  
Chiefly on vegetable diseases.
- 33036 GOLDSWORTHY, M. C. Fungicidal and phytotoxic properties of 506 synthetic organic compounds. *Plant Dis. Rptr. Sup.* 182: 89-109. Mar. 30, 1949. 1.9 P69P
- 33037 GORLIA, E. Pulvérisations des arbres fruitiers; les composés mercuriques dans la lutte contre la tavelure. *Fruit Belge* 17: 13. Jan. 1949. 80 F9493
- 33038 GREEN, D. E. Peach troubles. *Amateur Gard. Ann.* 1949: 40. 80 Am12
- 33039 GROS, M. Traitement d'hiver des arbres fruitiers e de la vigne. *Rev. Agr. de l'Afrique du Nord* 46: 609. Dec. 3, 1948. 80 R326
- 33040 GUYON, G. Sur le dépérissement du pommier de pré-verger dans le Massif Central. *Ann. Agron.* 18: 593-606. Sept./Oct. 1948. 14 An75A
- 33041 HANF, M. Aus der praxis der obstbaumwinterspritzung. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.)* 2: 121-127. July/Aug. 1948. 464.9 N11
- 33042 HARLAN, P. W. Heavy damage from 1949 freeze. *Citrus Leaves* 29(2): 6-7. Feb. 1949. 80 C492
- 33043 HEIM, R., and BACHY, A. Observations préliminaires sur une grave maladie du palmier à huile sévissant au Congo Français. *Paris. Acad. des Sci. Compt. Rend.* 228: 217-220. Jan. 17, 1949. 505 P21
- 33044 HOAK, C. M. The lessons to be learned from the recent freeze. *Golden Gard.* 13: 104, 112. Mar. 1949. 80 G56
- 33045 HORSFALL, F., JR. Treating chufas with zinc phosphide. *Va. Fruit* 37(3): 27-28. Mar. 1949. 81 V81B  
Making bait for orchard mouse control.
- 33046 JOHNSTON, J. C. Treatment of frost-injured citrus trees. *Calif. Citrog.* 34: 190, 210-211. Mar. 1949. 80 C125
- 33047 JOUGAN, E. Conseils pour les traitements d'hiver. *Acclimatation* 76(1): 3. Jan. 1, 1949. 14 Ac2  
Fruit.
- 33048 JOUGAN, E. Le pourridié, ruine des vergers. *Monit. Agr.* 2(54): 12. Jan. 23, 1949. 14 M744
- 33049 JOUGAN, E. À quelle époque peut-on effectuer les derniers traitements d'hiver sur les arbres fruitiers? *Monit. Agr.* 2(57): 11. Feb. 13, 1949. 14 M744
- 33050 KELLY, C. B. How to keep down rabbits in orchards. *Canad. Grower* 71(12): 7. Dec. 13, 1948. 80 C16
- 33051 KIRK, J. W. C. Notes on two maladies. *Iris. Ybk.* 25: 114-117. 1948. 84 Ir4  
Botrytis and scorch.
- 33052 KLINKOWSKI, M. Penicillin und streptomycin in der pflanzenherapie. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.)* 2: 114-117. Ref. July/Aug. 1948. 464.9 N11
- 33053 LEWIS, A. G., JR. My experiences dusting apples and peaches. *Amer. Fruit Grower* 69(2): 21. Feb. 1949. 80 C85
- 33054 MARCHIONATTO, J. B. Tratado de fitopatología. Buenos Aires, Ediciones Librería del Colegio, 1948. 537 p. 464 M333T
- 33055 MÁSPOLI, A. O. Enrulamiento de la vid. *Vinos, Viñas y Frutas* 44: 271, 273-274. Dec. 1948. 9 Ag89
- 33056 MATSUMOTO, T. An annotated list of sugarcane diseases in Formosa and remarks on the taxonomy of some of their causal organisms. I. *Soc. Chin. Trop. Agr. J.* 1: 12-16. Sept. 1948. 26 So14
- 33057 MATTOON, H. G. Boxwood troubles. *Horticulture* 27: 52. Feb. 1949. 80 H787
- 33058 MILLIKAN, C. R. Lower leaf scorch of flax. *Victoria. Dept. Agr. J.* 46: 511-517. (To be cont.) Nov. 1948. 23 V66J
- 33059 MILLIMAN, L. H. Dormant spraying on way out. *Better Fruit* 43(8): 9, 30-31. Feb. 1949. 80 B46
- 33060 MOODY, G. S. Control of mice in orchards. *South. Planter* 110: 51. Jan. 1949. 6 So89
- 33061 O'BRIEN, H. R. Legumes are in trouble. *Country Gent.* 119(2): 19, 75, 77-78. Feb. 1949. 6 C833  
Diseases.
- 33062 OLDHAM, C. H. Winter spraying soft fruits. *Amateur Gard.* 65(3376): 14. Jan. 25, 1949. 80 Am13
- 33063 PEGLION, V. Plant pathology panorama. 2. Biological profilaxis. (In Italian.) *Italia Agr.* 86: 3-13. Jan. 1949. 16 It1
- 33064 PIRONE, P. P. A new threat to London plane trees [*Platanus acerifolia*]. *Natl. Shade Tree Conf. Proc.* 24: 97-101. 1948. 99.9 N218
- 33065 RANDOLPH, L. F. Observations on diseases affecting the foliage of garden Irises. *Iris Ybk.* 25: 80-82. 1948. 84 Ir4



- 33066 REEVES, E. L., and BLODGETT, E. C. Diseases and disease control in orchards irrigated by sprinkling. Wash. State Hort. Assoc. Proc. 44: 233-236. 1948. 81 W273
- 33067 REID, R. D. Breeding disease resistant strawberries. Grower [London] 31: 398-400. Feb. 26, 1949. 286.83 M34
- 33068 REID, R. D. Breeding strawberries for disease resistance. Gt. Brit. Min. Agr. Agriculture 55: 476-482. Ref. Feb. 1949. 10 G79J
- 33069 RICHARDS, A. A. Tomato troubles. Amateur Gard. Ann. 1949: 91. 80 Am12
- 33070 RIKER, A. J. Developing resistance to disease in trees. Natl. Shade Tree Conf. Proc. 24: 65-73. 1948. 99.9 N218
- 33071 RYBAK, B. Infections associées expérimentales du Pelargonium. Inst. Pasteur. Ann. 75: 285-290. Sept. 1948. 448.3 An75
- 33072 SACKSTON, W. E. The effect of DDT and 2,4-D on some diseases of flax. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 16-17. 1949. 464.9 C162
- 33073 SIMMONS, S. A. Control of Gladiolus diseases. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 15. 1949. 464.9 C162
- 33074 SLYKHUIS, J. T. Sweet clover failure in southwestern Ontario. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 16. 1949. 464.9 C162
- 33075 SOENEN, M. A. Les "avertissements." Fruit Belge 17: 17-21. Feb. 1949. 80 F9493
- Spraying and dusting.
- 33076 SONGER, N. N. Plant Inspection Station, Miami International Airport. Amer. Orchid Soc. B. 17: 702-704. Dec. 1948. 80 Am329
- 33077 STANTON, H. Late winter treatment of peaches. Amateur Gard. 65(3378): 16. Feb. 8, 1949. 80 Am13
- 33078 STOECKELER, J. H. Recovery of winter-injured conifers. Amer. Nurseryman 88(9): 9, 54. Nov. 1, 1948. 80 Am371
- 33079 SWARTWOUT, H. G. Spray research. Mo. State Hort. Soc. Hort. News 1949: 4-7. Feb. 1949. 81 M692H
- Fruit diseases.
- 33080 TARROUX, M. Pourquoi faut-il traiter les arbres fruitiers. Tribune Agr. 42(753): 1. Feb. 15, 1949. 24 T732
- 33081 THOMPSON, A. H., and BATJER, L. P. Helpful soil treatment for correcting arsenic injury to peach trees planted on toxic soils. (Abs.) Wash. State Hort. Assoc. Proc. 44: 207-208. 1948. 81 W273
- 33082 TORRE R., G. DE LA. Enfermedades y plagas de la papa. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr. 15: 43-46. (Cont.) Oct. 1948. 9.8 P4352
- 33083 VERHOEVEN, W. B. L. Algemene leer der plantenziekten van landbouwgewassen [General study of diseases of crop plants]. Wageningen, Veenman, 1948. 101 p. 464.4 V582
- 33084 VILLA, U. The snail has destroyed 600 plants in a single night. (In Italian.) Terra [Firenze] 60(3): 3. Jan. 16, 1949. 16 T274
- 33085 WHITTEN, R. R., and SWINGLE, R. U. The status of research on two epidemic elm diseases. Natl. Shade Tree Conf. Proc. 24: 113-120. 1948. 99.9 N218
- Discussion, p. 120-123.
- Ceratostomella ulmi and a virus transmitted by Scaphoideus luteolus.
- 33086 YEAGER, A. F., and RASMUSSEN, E. J. Frost injury to apples in the autumn. Amer. Soc. Hort. Sci. Proc. 52: 157-158. Nov. 1948. 81 So12
- Diseases Caused by Fungi
- 33087 BAILEY, D. L. Specialization in parasitism in Cladosporium fulvum Cooke. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 15. 1949. 464.9 C162
- 33088 BAILEY, J. S. Further observations on the control of mummy berry on cultivated blueberries. Amer. Soc. Hort. Sci. Proc. 52: 299-303. Nov. 1948. 81 So12
- Monilinia vaccinii-corymbosi.
- 33089 BATTS, C. C. V. Black rust [Puccinia graminis] in south-east Scotland. Nature [London] 163: 107. Jan. 15, 1949. 472 N21
- 33090 BENLLOCH, M. El "tizón" del trigo. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 19-48 H, 11 p. Oct. 1948. 15 H68
- 33091 BJÖRLING, K. Bidrag till kännedomen om potatiskräftsvampens (Synchytrium endobioticum (Schilb.) Perc.) biologi [Contribution to the knowledge of the biology of the potato wart fungus, Synchytrium endobioticum (Schilb.) Perc.]. Sweden. Statens Växtskyddsanst. Meddel. 52, 20 p. Ref. 1948. 464.9 Sw3M
- English summary.
- 33092 BONI, A. A new calamity descends upon our chestnuts, Endothia parasitica or bark canker. (In Italian.) Ital. Vinic. ed Agr. 38: 256-257. Nov. 30, 1948. 95.8 It1
- 33093 BRANDENBURG, E. Über ein pilzliches toxin in der gattung Pythium und seine wirkung auf die wirtspflanze. Z. f. Pflanzenkrankh. 55: 129-138. May/June 1948. 464.8 Z3
- 33094 BRENTZEL, W. E. Treating seed wheat increases yields. N. Dak. Agr. Expt. Sta. Bimo. B. 11(3): 79-81. Jan./Feb. 1949. 100 N813B
- 33095 BROADFOOT, W. C. The Helminthosporium blight of oats in Ontario. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 17. 1949. 464.9 C162
- 33096 BUCHHOLTZ, W. F. A comparison of gross pathogenic effects of Pythium graminicola, Pythium debaryanum, and Helminthosporium sativum on seedlings of crested wheatgrass. Phytopathology 39: 102-116. Feb. 1949. 464.8 P56
- 33097 BUSCH, L. V. Investigations on Phytophthora infestans with respect to tomato late blight. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 14. 1949. 464.9 C162
- 33098 BUSH, R. Fungus diseases of tropical fruits. Grower [London] 31: 251, 253. Feb. 5, 1949. 286.83 M34
- 33099 CAIN, R. F., and GROVES, J. W. Notes on seed-borne fungi. VI. Sordaria. Canad. J. Res. Sect. C, Bot. Sci. 26: 486-495. Oct. 1948. 470 C16C
- 33100 CALLBECK, L. C. Late blight epidemiology studies in Prince Edward Island. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 13-14. 1949. 464.9 C162
- 33101 CARRERA, C. Peronospora o mildiu de la vid. Vinos, Viñas y Frutas 44: 275, 277, 279-280. Dec. 1948. 9 Ag89
- 33102 CHAMBERLAIN, G. C. Three years' spraying experiments for control of apple scab in the Niagara Peninsula. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 13. 1949. 464.9 C162
- 33103 CHEN, C. C. Desiccation of conidia as a means of increasing the percentage of infection in inoculation experiments with rice-blast fungus. (In Chinese.) Soc. Chin. Trop. Agr. J. 1: 17-26. Sept. 1948. 26 So14
- English summary.
- 33104 CHILDERS, W. R. Record of the occurrence of Physoderma graminis in Canada. Science 108: 484. Oct. 29, 1948. 470 Sci2
- 33105 CHOWDHURY, S. Diseases of pan (Piper betle) in Sylhet, Assam. VII-VIII. Indian Acad. Sci. Proc. Sect. B 28: 227-246. Ref. Dec. 1948. 513 In25B
- VII, Effects of some soil treatments on the incidence of sclerotial wilt; VIII, Effect of temperature on the development of sclerotial wilt of pan.
- 33106 CONNECTICUT. (STATE) AGRICULTURAL EXPERIMENT STATION. Saving your valued elms. Conn. (State) Agr. Expt. Sta. Spec. B., 4 p. Jan. 1949. 464.07 C76
- Dutch elm disease.
- 33107 CONOVER, R. A. Phytophthora seedling blight, a new disease of Florida avocados. Calif. Avocado Soc. Ybk. 33: 88-90. 1948. 81 C128
- 33108 CRIST, E. E. The evaluation of mildew sprays in the Wenatchee and Okanogan areas for 1948. Wash. State Hort. Assoc. Proc. 44: 33, 35-36. 1948. 81 W273
- For apples and pears.
- 33109 DARPOUX, H., and VUITTENEZ, A. Essais de traitements contre la tavelure du poirier [Venturia pirina]. Ann. des Épiphyt. (n. s.) 14: 7-26. 1948. 464.9 F84A
- 33110 DENMARK. LANTBRUGSMINISTERIUM. Proprietary fungicides, insecticides, and weed-killers. Rules for testing by the Danish State Agricultural Experiment Stations. n. p., 1948. 4 p. 464.4 D412



- 33111 DIETZ, S. M., and YOUNG, R. A. Oak wilt—a serious disease in Iowa. Iowa. Agr. Expt. Sta. B. P91, 20 p. July 1948. 100 Io9  
Caused by the fungus *Chalara quercina*.
- 33112 DIMOCK, A. W. Botrytis bud rot of carnations. N. Y. State Flower Growers B. 41: 8. Jan. 1949. 80 N486
- 33113 DIMOND, A. E., and STODDARD, E. M. Chemotherapy. Natl. Shade Tree Conf. Proc. 24: 107-113. 1948. 99.9 N218  
For dieback of elm.
- 33114 DIMOND, A. E., and POTTS, S. F. Control of sycamore anthracnose with mist blown fungicidal spray concentrates. Natl. Shade Tree Conf. Proc. 24: 130-134. 1948. 99.9 N218
- 33115 DOOLITTLE, S. P. El tizón tardío en los tomates. Agronomía [Habana] 8(12): 19-20, 24. Dec. 1948. 8 C893
- 33116 DUNEGAN, J. C., GOLDSWORTHY, M. C., and WILSON, R. A. Peach blossom blight control. Peninsula Hort. Soc. Trans. 62: 44. 1948. 81 P37
- 33117 EPPS, J. M., and SHERBAKOFF, C. D. The Miles watermelon, a new wilt-resistant variety. Tenn. Agr. Expt. Sta. C. 103, 4 p. Dec. 1948. 100 T255  
Fusarium wilt.
- 33118 EPPS, J. M., and SHERBAKOFF, C. D. Raspberry disease control. Tenn. Agr. Expt. Sta. C. 102, 2 p. Dec. 1948. 100 T255  
Leaf spot and anthracnose.
- 33119 FISCHER, G. W. What we know and what we need to find out about apple mildew. Wash. State Hort. Assoc. Proc. 44: 39-40, 42. 1948. 81 W273
- 33120 FORSBERG, J. L. A new method of evaluating fungicides. Phytopathology 39: 172-174. Feb. 1949. 464.8 P56
- 33121 FRÖHLICH, E. Nochmals: "stachelbeermehltau-bekämpfung." Land Wald u. Gart. 3: 168. July 1948. 18 L22
- 33122 GARRISS, H. R. Blue mold control is best investment for leaf growers. South. Planter 110(2): 18, 41. Feb. 1949. 6 So89  
Tobacco.
- 33123 GAUDINEAU, M. L'oidium ou blanc du pommier. Fruit Belge 17: 1-5. Jan. 1949. 80 F9493  
*Podosphaera leucotricha*.
- 33124 GOIDANICH, G., and RUGGIERI, G. The character of resistance of some citrus species to the parasitism of "Deuterophoma tracheiphila" Petri. (In Italian.) Citrus [Messina] 20(4/6): 3-7. Ref. Apr./June 1948. 286.83 M56  
English summary.
- 33125 GOIDANICH, G., and RUGGIERI, G. On mal secco of citrus. (In Italian.) Humus 4(11): 24. Nov. 1948. 16 H88  
With a note by E. Baldacci.
- 33126 GREAT BRITAIN. FORESTRY COMMISSION. Conifer heart-rot (*Fomes annosus* (Fr.) Cooke = *Trametes radiciperda* Hartig.). Gt. Brit. Forestry Comn. Leaflet 5, rev., 7 p. July 1948. 99.9 G795L
- 33127 GREAT BRITAIN. FORESTRY COMMISSION. Honey fungus, *Armillaria mellea* Vahl. = *Agaricus melleus* L. Gt. Brit. Forestry Comn. Leaflet 6, rev., 5 p. July 1948. 99.9 G795L
- 33128 GREAT BRITAIN. FORESTRY COMMISSION. Phomopsis disease of conifers, *Phomopsis pseudotsugae* Wilson. Gt. Brit. Forestry Comn. Leaflet 14, rev., 4 p. 1948. 99.9 G795L
- 33129 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Peach leaf curl [*Taphrina deformans*]. Gt. Brit. Min. Agr. and Fisheries. Adv. Leaflet 81, 3 p. Oct. 1948. 10 G79La
- 33130 GREEN, L. Control scab and Monilia now. (In Swedish.) Sveriges Pomol. För. Fruktdlaren 1948: 145-146. 86 Sv2F
- 33131 GREUTE, J. Influence des attaques de mort-lin [*Ascochyta linicola*] sur le rendement du lin cultivé. Ann. des Epiphyt. (n. s.) 14: 27-37. 1948. 464.9 F84A
- 33132 GROVES, J. W., and LEACH, A. M. The *Tympanis* species occurring on pine. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 10. 1949. 464.9 C162
- 33133 GUYOT, A. L., and others. Au sujet d'un hôte écidien nouveau de la rouille des oeillets [*Uromyces caryophyllinus* (Schrank) Winter]. Rev. de Path. Veg. et d'Ent. Agr. de France 27: 164-166. July 1948. 464.9 Sol  
M. Massenot, J. Montegut, and A. Saccas, joint authors.
- 33134 HAILLOU, G. Il faut lutter de bonne heure contre l'oidium. Vaucluse Agr. 5: 13. Jan. 1, 1949. 14 V26  
Powdery mildew of grape.
- 33135 HAMILTON, J. M. Fungicide tests for apple-scab control in 1948. Mountaineer Grower 19(175): 4-5, 7-8. Feb. 1949. 80 M86
- 33136 HARRIS, M. R. Apple scab. Wash. State Hort. Assoc. Proc. 44: 43-48. 1948. 81 W273
- 33137 HEAN, A. F. 'N verwelksiekte van *Crotalaria juncea* Linn (Sunn-hennep) wat in Suid-Afrika aangetref word [A wilt disease of *Crotalaria juncea* Linn (Sunn hemp) occurring in South Africa]. Union So. Africa. Dept. van Landbou. Wetenskaplike Pam. 255, 18 p. Ref. 1948. 24 So84Sd
- 33138 HENRY, A. W. Flax rust in Alberta. Alberta. U. Dept. Plant Sci. Seasonal Notes 34: 6-7. Jan. 8, 1949. 64.9 AL12
- 33139 HERNANDEZ, T. Spray for late blight—double potato profits. Prog. Farmer, Miss.-Ark.-La. Ed. 64(2): 20, 107. Feb. 1949. 6 So81
- 33140 HEUBERGER, J. W. The downy mildew disease of Henderson bush lima beans. Peninsula Hort. Soc. Trans. 62: 111-113. 1948. 81 P37
- 33141 HEUBERGER, J. W., and POULOS, P. L. Peach brown rot disease control studies: pre-harvest sprays. Peninsula Hort. Soc. Trans. 62: 48-53. 1948. 81 P37
- 33142 HILDEBRAND, A. A. Soil treatment with Arasan for the control of blackroot of sugar beet seedlings. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 16. 1949. 464.9 C162
- 33143 HOCKEY, J. F. Apple scab control relation to its epidemiology. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 12. 1949. 464.9 C162
- 33144 HOWARD, F. L. Outlook for fungicides. Amer. Fruit Grower 69(2): 26, 38. Feb. 1949. 80 G85
- 33145 IBBETT, W. C. Wilt-resistant cucumbers by grafting. Nurseryman & Seedsman 108: 186-187. Jan. 20, 1949. 80 N933
- 33146 JANSSEN, R. W. On pea varieties. (In Dutch.) Boer en Tuinder 3(110): 4. Feb. 12, 1949. 12 B632  
Susceptibility to *Fusarium solani*.
- 33147 JENSEN, H. Thermal death points for spores and mycelia of moulds on fermented tobacco. Physiol. Plant. 1: 255-264. 1948. 450 P564
- 33148 JOUGAN, E. Comment lutter contre la cloque du pêcher. Acclimatation 76: 4. Jan. 29, 1949. 14 Ac2
- 33149 KIENHOLZ, J. R. The evaluation of mildew sprays at Hood River. Wash. State Hort. Assoc. Proc. 44: 37-38. 1948. 81 W273  
On pears and apples.
- 33150 KLOTZ, L. J., DEWOLFE, T. A., and ZENTMYER, G. A. Brown rot control. Citrus Leaves 29(2): 12-13. Feb. 1949. 80 C492
- 33151 KREITLOW, K. W. *Sclerotinia trifoliorum*, a pathogen of Ladino clover. Phytopathology 39: 158-166. Feb. 1949. 464.8 P56
- 33152 KUHNHOLTZ-LORDAT, G. La menthe sylvestre et sa rouille [*Puccinia menthae*]. Feuille des Nat. (n. s.) 2: 27. Feb./Mar. 1947. 410 F432
- 33153 LEDINGHAM, R. J., and SALLANS, B. J., and SIMMONDS, P. M. The significance of the normal flora on wheat seed in inoculation studies with *Helminthosporium sativum*. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 10-11. 1949. 464.9 C162
- 33154 LOIBL, L. Der steinbrand, ein gefährlicher feind des weizenbaues. Oberöstr. Landwirtschaftsztg. 19(36): 3-4. Sept. 3, 1947. 19 Ob23
- 33155 LOUW, A. J. A leafspot disease of pears. Farming So. Africa 23: 737-741, 743. Nov. 1948. 24 So842
- 33156 MCCALLUM, A. W. Dutch elm disease reaches Ontario. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 1. Nov./Dec. 1948. 423.92 C16F
- 33157 MCDONOUGH, E. S. The relation of fungi to cavity formation in trees. Natl. Shade Tree Conf. Proc. 24: 5-8. Ref. 1948. 99.9 N218  
Discussion, p. 8-10.
- 33158 MCKEEN, C. D. Soil treatment with Arasan in the control of certain seedling diseases of vegetables. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 15-16. 1949. 464.9 C162



- 33159 MCKEEN, W. E. Blackroot [*Aphanomyces cochlioides*] of sugar beets and latest methods of control. Up & Down Rows 83: 8. Feb. 1949. 66.8 Up1
- 33160 MCNEW, G. L., and YOUNG, R. A. The nature and control of oak wilt. Natl. Shade Tree Conf. Proc. 24: 123-128. 1948. 99.9 N218  
Discussion, p. 128-130.  
Caused by *Chalara quercina*.
- 33161 MARCHIONATTO, J. B. El "tixón" o "podredumbre del tallo" del conejito. Buenos Aires U., Facul. de Agron. y Vet. Rev. 12: 3-7. Nov. 1948. 9 B863  
English summary.  
*Phyllosticta antirrhini* on *Antirrhinum majus*.
- 33162 MARTIN, W. J. Moldy rot of tapping panels of Hevea rubber trees. U. S. D. A. C. 798, 23 p. Ref. Jan. 1949. 1 Ag84C  
Caused by *Ceratostomella fimbriata*.
- 33163 MASSACHUSETTS FOREST AND PARK ASSOCIATION. Dutch elm disease survey for Massachusetts. Boston, New England Trust Co., 1948. 4 p. 464.07 M383
- 33164 MATTHEWS, D. N., and HUTCHISON, S. B. Development of a blister rust control policy for the National forests in the Inland Empire. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 16, 116 p. Ref. Dec. 1948. 1.9622 N3St1
- 33165 MEHLQUIST, G. A. L., and RAHMANI, R. Inheritance of resistance to rust in the snapdragon, *Antirrhinum majus*. Amer. Soc. Hort. Sci. Proc. 52: 481-486. Nov. 1948. 81 So12
- 33166 MERCER, R. Treating small grain seed. Mont. Farmer-Stockman 36(12): 18-19. Feb. 15, 1949. 6 M764
- 33167 MILLIKAN, C. R. Lower leaf scorch of flax. Victoria. Dept. Agr. J. 46: 566-576. (Cont.) Dec. 1948. 23 V66J
- 33168 MOORE, E. L., and LUCAS, G. B. Blackshank, the King of tobacco diseases. Prog. Farmer, Car.-Va. Ed. 63(11): 16, 114. Nov. 1948. 6 P945
- 33169 MOSES, A. L. 1947 fungicide tests. North Amer. Gladiolus Council. B. 17: 29. Mar. 1949. 96.43 N81
- 33170 NATIONAL INSTITUTE OF AGRICULTURAL BOTANY. Seed disinfection of linseed. Natl. Inst. Agr. Bot. Seed Notes 25, 4 p. Nov. 1948. 61.9 N21S
- 33171 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BRANCH. DIVISION OF SCIENCE SERVICES. Leaf curl of stone fruits. N. S. Wales. Dept. Agr. Plant Dis. Leaflet 15, 4 p. 1948. 464.9 N47  
*Taphrina deformans*.
- 33172 NIETHAMMER, A. Beiträge zur kultur einzelner brandpilze. Z. f. Pflanzenkrank. 55: 141-144. May/June 1948. 464.8 Z3
- 33173 NOBLES, M. K. Identification of cultures of wood-rotting fungi. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 10. 1949. 464.9 C162
- 33174 PARROT, A. G. Flore fongique d'une souche de platane. Feuille des Nat. (n. s.) 2: 53. May/June 1947. 410 F432
- 33175 PETERSON, R. F., CAMPBELL, A. B., and HANNAH, A. E. A diagrammatic scale for estimating rust intensity on leaves and stems of cereals. Canad. J. Res. Sect. C, Bot. Sci. 26: 496-500. Oct. 1948. 470 C16C
- 33176 PETURSON, B. The occurrence of *Puccinia coronata* on *Rhamnus frangula* in Canada. Phytopathology 39: 142-148. Ref. Feb. 1949. 464.8 P56
- 33177 PIACCO, R. Helminthosporiose of rice. (In Italian.) Risiqoltura 36: 231-235. Ref. Oct. 1948. 59.8 G43
- 33178 PRASAD, N. Variability of the cucurbit root-rot fungus, *Fusarium* (*Hypomyces*) *solani* f. *cucurbitae*. Phytopathology 39: 133-141. Feb. 1949. 464.8 P56
- 33179 QUÉBEC. MINISTÈRE DES TERRES & FORÊTS. Rapport general des travaux effectués sur la maladie hollandaise de l'orme dans la Province de Québec en 1947, par René Pomerleau. Québec, 1948? 33 p. 464.07 Q3R
- 33180 RAEDER, J. M. Seed treatment is also essential to maximum small grain yields. Victory Farm Forum 34: 16. Mar. 1949. 281.8 F226
- 33181 RAPIN, J. Observations sur la carie du froment (*Tilletia tritici*). Rev. Romande d'Agr. de Vitic. et d'Arbor. 4: 81-82. Nov. 1948. 17 J82A
- 33182 REINMUTH, E. Die helminthosporiose des Ölmoehns. Z. f. Pflanzenkrank. 55: 138-141. Ref. May/June 1948. 464.8 Z3
- 33183 RENNERFELT, E. Investigations of thujaplicin, a fungicidal substance in the heartwood of *Thuja plicata* D. Don. Physiol. Plant. 1: 245-254. Ref. 1948. 450 P564
- 33184 RICH, A. C. The evaluation of mildew sprays in Yakima for 1948. Wash. State Hort. Assoc. Proc. 44: 31-32. 1948. 81 W273  
Powdery mildew of apples.
- 33185 RIMANN, C. Der zunder [Fomes] ein "nützlicher" schädling. Natur u. Tech. 2: 349-351. Oct. 15, 1948. 474 N215
- 33186 SADLER, G. How to prevent peach leaf curl. Pop. Gard. 50: 470. Feb. 5, 1949. 80 G1622
- 33187 SALLANS, B. J., LEDINGHAM, R. J., and SIMMONDS, P. M. Testing wheat seedlings for resistance to *Helminthosporium sativum*, with reference to antibiosis. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 11. 1949. 464.9 C162
- 33188 SAVILE, D. B. O. Some foliage parasites of trees. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 10. 1949. 464.9 C162
- 33189 SCHAEFER, E. E. *Rhizoctonia* stem-rot of carnations. Farming So. Africa 23: 742-743. Nov. 1948. 24 So842
- 33190 SEN, A. B., and JOSHI, K. C. Organic fungicides. I. Synthesis of dibromoacetamides. Indian Chem. Soc. J. 26: 483-484. Oct. 1948. 385 In27
- 33191 SHPILER, E. E. Breeding of gooseberry varieties resistant to *Sphaerotheca mors uvae*. (In Russian.) Sad i Ogorod 1948(6): 28-31. June 1948. 87 Sa1
- 33192 SIMMONS, S. A. Research on *Botrytis* corm rot. North Amer. Gladiolus Council. B. 17: 93-94. Mar. 1949. 96.43 N81
- 33193 SMITH, W. P. C. Autumn rainfall in relation to spring epidemics of wheat stem rust. West. Austral. Dept. Agr. J. 2 ser. 25: 291-293. Sept. 1948. 23 W52J
- 33194 SONDERMAN, C. H., and MACLEAN, N. A. *Rhizoctonia* neck and bulb rot of Iris in the Pacific Northwest. Phytopathology 39: 174-175. Feb. 1949. 464.8 P56
- 33195 SPROSTON, T. Vermont apple scab and control, 1947-1948. Vt. Agr. Expt. Sta. B. 550, 12 p. Feb. 1949. 100 V59
- 33196 STEINBAUER, C. E. A sweetpotato from Tinian Island highly resistant to *Fusarium* wilt. Amer. Soc. Hort. Sci. Proc. 52: 304-306. Nov. 1948. 81 So12
- 33197 STIRLAND, L. How many hopes per acre? Seed World 64(2): 12, 14. Jan. 21, 1949. 61.8 Se52  
Treatment of seeds.
- 33198 TANON, C. Le *Cercospora* est-il un danger pour la production bananière aux Antilles Françaises. Fruits d'Outre Mer 4: 29. Jan. 1949. 80 F9492
- 33199 TERMAN, G. L., STEINMETZ, F. H., and HAWKINS, A. Effects of certain soil conditions and treatments upon potato yields and the development and control of potato scab. Maine. Agr. Expt. Sta. B. 463, 31 p. Dec. 1948. 100 M28S
- 33200 THENARD, J. La carie du blé. Blé et le Vin 25(1117): 3. Jan. 16/30, 1949. 14 B61
- 33201 THIRUMALACHAR, M. J. Angular leaf-spot of Kudzu in Mysore. Cur. Sci. 18: 16-17. Jan. 1949. 475 Sci23  
*Cercospora pueraricola*.
- 33202 THOMASON, B. L. New advance in "damping-off" control. Canad. Florist 44(5): 15-17. Mar. 1, 1949. 80 C163
- 33203 TISDALE, W. B., and RUEHLE, G. D. Pythium root rot of aroids and Easter lilies. Phytopathology 39: 167-170. Feb. 1949. 464.8 P56
- 33204 ULLSTRUP, A. J. A method for producing artificial epidemics of *Diplodia* ear rot. Phytopathology 39: 93-101. Feb. 1949. 464.8 P56  
Of corn.
- 33205 VENKATARAYAN, S. V. Smut on the mat-sedge, *Cyperus pangorei*, Rottb. Cur. Sci. 18: 13. Jan. 1949. 475 Sci23
- 33206 WAIN, R. L. Recent advances in the study of fungicides and insecticides. Agr. Prog. 23: 44-49. Ref. 1948. 10 Ag86



- 33207 WALDRON, L. R. Breeding for leaf rust resistance in wheat. N. Dak. Agr. Expt. Sta. Bimo. B. 11 (3): 73-76. Jan./Feb. 1949. 100 N813B
- 33208 WEAVER, L. O. The apple scab control program in 1948 and 1949. Peninsula Hort. Soc. Trans. 62: 24-27. 1948. 81 P37
- 33209 WEAVER, L. O. The importance of blossom blight of peach. Peninsula Hort. Soc. Trans. 62: 45-48. 1948. 81 P37
- 33210 WEAVER, L. O. Observations on the use of lime-sulfur sprays on peach in Maryland, 1948. Plant Dis. Rptr. 32: 515-517. Dec. 15, 1948. 1.9 P69P
- 33211 WEIMER, J. L. Red stem canker of cowpea, caused by *Phytophthora cactorum*. J. Agr. Res. 78: 65-75. Feb. 1/15, 1949. 1 Ag84J
- 33212 WELCH, D. S. The occurrence of active wood-rotting fungi in apparently sound wood of living trees. Arborist's News 14: 18-19. Feb. 1949. 99.8 Ar14
- 33213 WELLS, S. A., and PLATT, A. W. The effect of loose smut on the viability of artificially inoculated barley seeds. Sci. Agr. 29(1): 45-52. Jan. 1949. 7 Sci2 Ustilaga nuda.
- 33214 WILLIAMS, W. O., and HEWITT, W. B. Control of grape root-rot in solution culture. Amer. Soc. Hort. Sci. Proc. 52: 279-282. Nov. 1948. 81 So12 *Pythium oligandrum*.
- 33215 WILSON, J. D., and RUNNELS, H. A. Losses from tomato fruit rot can be reduced. Food Packer 30(3): 44, 46. Mar. 1949. 286.83 C165
- 33216 WOLFF, E. T. An experimental study of Colletotrichum graminicolum on fine turf. Pa. State Col. Abs. Doct. Diss. (1947) 10: 31-35. 1948. 241.8 P38
- 33217 YEAGER, A. F., and RICHARDS, M. C. A new fall bearing red raspberry, Durham—and the spur blight problem. Amer. Soc. Hort. Sci. Proc. 52: 263-264. Nov. 1948. 81 So12
- 33218 YOUNG, H. C. Recent developments in fungicides and their evaluation, nature, compatibility, and use. Natl. Shade Tree Conf. Proc. 24: 47-58. 1948. 99.9 N218
- 33219 ZELLER, S. M., and CAMPBELL, L. Synchytrium found on the roots of strawberry. Phytopathology 39: 149-151. Feb. 1949. 464.8 P56
- 33220 ZENTMYER, G. A. Replanting avocado root rot soil. Calif. Avocado Soc. Ybk. 33: 82. 1948. 81 C128
- Phytophthora cinnamomi*.
- 33221 ZENTMYER, G. A. Verticillium wilt of avocado. Calif. Avocado Soc. Ybk. 33: 83-87. 1948. 81 C128

#### Diseases Caused by Bacteria

- 33222 ARK, P. A. Further studies on walnut blight; properly timed copper sprays reduce losses. Diamond Walnut News, 31(2): 4-6. Mar. 1949. 94.68 D34
- 33223 BIRAGHI, A. Observations and considerations on bacterial wilt of corn. (In Italian.) Agr. Bresciana 1(50): 1. Dec. 15, 1948. 16 Ag89
- 33224 BOYD, O. C. Eastern States now has seed beans free from halo blight. East. States Coop. 25(2): 9. Feb. 1949. 280.28 Ea7
- 33225 BRAUN, A. C. The rôle of thiamin and certain related compounds in pigment production by *Corynebacterium michiganense* (Erw. Smith) Jensen. Phytopathology 39: 171-172. Feb. 1949. 464.8 P56
- 33226 CASSERES, E. H. Bacterias causan la "maya" de los papales. Suelo Tico 1: 87-90. Sept. 1948. 8 Su2
- 33227 COLEMAN, M. F., and REID, J. J. The conversion of strains of *Alcaligenes radiobacter* and *Phytomonas tumefaciens* in the "S" phase to the "M" phase of the heterologous species. Phytopathology 39: 182-190. Ref. Mar. 1949. 464.8 P56
- 33228 FLEURY, C., and MARIAT, F. Une nouvelle bactérie, hôte du poirier: *Aplanobacter fleuryi* n. sp., Mariat. Landw. Jahrb. der Schweiz 62: 786-789. 1948. 17 L23
- 33229 GONÇALVES, R. D. Bacteriosis of cassava. (In Portuguese) Colheitas e Mercados 4(7/8): 23-24. July/Aug. 1948. 255.3 Sa652
- Caused by *Phytomonas manihotis*.
- 33230 HAYES, W. Blight observations in the Yakima Valley. Wash. State Hort. Assoc. Proc. 44: 59-60. 1948. 81 W273
- On pears.

- 33231 HWANG, L. Spraying experiments to control citrus canker. Phytopathology 39: 177-181. Mar. 1949. 464.8 P56
- 33232 KNORR, L. C. Suscept range of the potato ring rot bacterium. Amer. Potato J. 25: 361-371. Oct. 1948. 75.8 P842
- 33233 LUCE, W. A. Pear blight observations in 1948. Wash. State Hort. Assoc. Proc. 44: 49-50. 1948. 81 W273
- 33234 MARTIN, J. A. Bacterial spot resistance in peppers. Amer. Soc. Hort. Sci. Proc. 52: 336-340. Nov. 1948. 81 So12
- 33235 NONNECKE, I. Fire-blight resistance across the prairies in *Malus*. West. Canad. Soc. Hort. Rpt. Proc. 4: 31-32. 1948. 82 W522
- In apples.
- 33236 RYBAK, B. L'immunité dans le crown-gall. Inst. Pasteur Ann. 75: 351-367. Oct. 1948. Ref. 448.3 An75
- 33237 RYBAK, B. Le pouvoir pathogène de *Phytomonas* (Bacterium) tumefaciens Berg. Rev. de Path. Veg. et d'Ent. Agr. de France 27: 125-142. Ref. July 1948. 464.9 So1
- 33238 STEVENS, R. F. Spraying for brown rot control. Peninsula Hort. Soc. Trans. 62: 54-55. 1948. 81 P37
- On peach.
- 33239 THOMAS, W., MACK, W. B., and FAGAN, F. N. Foliar diagnosis: the mineral nutrition of peach trees with particular reference to bacterial leaf spot. Amer. Soc. Hort. Sci. Proc. 52: 47-56. Ref. Nov. 1948. 81 So12
- 33240 THORNBERRY, H. H., BRAUN, A. C., and ELROD, R. P. Application of the bacteriophage-lysis technique for the identification of plant pathogenic bacteria. Phytopathology 39: 152-154. Ref. Feb. 1949. 464.8 P56
- 33241 TUFTS, W. P., and DETAR, J. E. The present status of pear blight in California. Wash. State Hort. Assoc. Proc. 44: 51, 53-55. 1948. 81 W273
- 33242 VOLMER, W. E., JR. Control of pear blight in my Hood River orchard. Wash. State Hort. Assoc. Proc. 44: 57-58. 1948. 81 W273

#### Viruses and Virus Diseases

- 33243 ALLARD, H. A. USDA research first to show that insects transmit tobacco mosaic. U. S. Agr. Res. Admin. Res. Achvt. Sheet 120, 2 p. Feb. 1949. 1.98 R31
- 33244 BAWDEN, F. C. Some properties of plant viruses. (Sum.) Chem. & Indus. 1949: 10. Jan. 1, 1949. 382 M31C
- 33245 BRANAS, J. La maladie de Pierce ou maladie de Californie. Prog. Agr. et Vitic. 1949: 51-56. Jan. 30, 1949. 14 P94
- 33246 BRIERLEY, P., and SMITH, F. F. Evidence points to virus as cause of Chrysanthemum stunt. Florists' Rev. 103(2676): 36-37. Mar. 10, 1949. 80 W41
- Also in South. Florist & Nurseryman 61(51): 9-11, 62-63. Mar. 18, 1949. 80 So86
- 33247 CIFERRI, R. Infectious chlorosis of bananas in Colombia. Nature [London] 163: 175. Jan. 29, 1949. 472 N21
- 33248 DANNENBERG, H., SCHRAMM, G., and FLAMMERSFELD, H. Die ultraviolettabsorption verschiedener stämme des tabakmosaik-virus. Z. f. Naturf. 3b: 241-245. July/Aug. 1948. 474 Z3
- 33249 DUVICK, E. The American elm vs. phloem necrosis. Ill. Agr. 53(4): 22. Feb. 1949. 6 IL6
- 33250 EVANS, G. Cocoa disease in the Gold Coast. Nature [London] 163: 271-272. Feb. 19, 1949. 472 N21
- Swollen shoot.
- 33251 FERNANDEZ VALIELA, M. V. Informe preliminar acerca de la etiología de la "podredumbre de las raicillas" del naranjo agrio injertado. Argentina. Dir. Gen. de Labs. e Invest. Rev. de Invest. Agr. 2: 139-146. July 1948. 9 R329
- 33252 FULTON, R. W. Virus concentration in plants acquiring tolerance to tobacco streak. Phytopathology 39: 231-243. Ref. Mar. 1949. 464.8 P56
- 33253 GALIBERT, A. Comment lutter contre la dégénérescence infectieuse. Réveil Agr. 58: 51-52. Feb. 15, 1949. 14 R322
- Of grapes.



- 33254 GILBERT, F. A. New Jersey strawberry growers urge extended study of yellows virus. N. J. State Hort. Soc. Hort. News 30: 2133-2134. Feb. 1949. 81 N46
- 33255 HEWITT, W. B. Une maladie à mosaïque de la vigne transmissible par greffage. Prog. Agr. et Vitic. 1949: 57-58. Jan. 30, 1949. 14 P94  
With a note by J. Branas.
- 33256 HULL, R. Seed crops, mangold clamps—and virus yellows. Brit. Sugar Beet Rev. 17: 67-70, 80. Dec. 1948. 66.8 B77
- 33257 JANSSEN, R. W. Yellows of beets. (In Dutch.) Boer en Tuinder 3(113): 1-2. Mar. 5, 1949. 12 B632
- 33258 JENSEN, D. D. Papaya ringspot virus and its insect vector relationships. Phytopathology 39: 212-220. Mar. 1949. 464.8 P56
- 33259 JENSEN, D. D. Papaya virus diseases with special reference to papaya ringspot. Phytopathology 39: 191-211. Ref. Mar. 1949. 464.8 P56
- 33260 LO, T. T. Chlorotic streak disease of sugarcane in Taiwan. (In Chinese.) J. Sugarcane Res. 2(11): 1-8. Nov. 1948. 65.8 J822  
English summary.
- 33261 MARKHAM, R., and SMITH, K. M. Studies on the virus of turnip yellow mosaic. Parasitology 39: 330-342. Ref. Feb. 1949. 448.8 P21
- 33262 MATTHEWS, R. E. F. Criteria of relationship between plant virus strains. Nature [London] 163: 175. Jan. 29, 1949. 472 N21
- 33263 MATTHEWS, R. E. F. Reactions of Cyphomandra betacea to strains of potato virus X. Parasitology 39: 241-244. Feb. 1949. 448.8 P21
- 33264 OCHSE, J. J. Tristeza disease in Java. Citrus Indus. 29(11): 12-14. Nov. 1948. 80 C49
- 33265 PALMITER, D. H., PARKER, K. G. Peach "X-disease" now threatens sour cherries. Farm Res. [N. Y. State Sta.] 15: 12-13. Jan. 1949. 100 N48A
- 33266 RHOADS, A. S. Psorosis considered incurable. Fla. Grower 57(3): 19. Mar. 1949. 80 F6622
- 33267 RICH, S. Some relations between Phaseolus virus 2 and its associated crystalline inclusions. Phytopathology 39: 221-224. Mar. 1949. 464.8 P56
- 33268 ROZENDAAL, A., and WANT, J. P. H. VAN DER. On the identity of the rattle virus of tobacco and the stem-mottle virus of potato. (In Dutch.) Tijdschr. over Plantenziekten 54: 113-133. July/Aug. 1948. 464.8 T44  
English summary.
- 33269 SCHACHMAN, K. H., and LAUFFER, M. A. The hydration, size and shape of tobacco mosaic virus. Amer. Chem. Soc. J. 71: 536-541. Feb. 1949. 381 Am33J
- 33270 SCHULTZ, J. H. Chokecherry disease [X-disease] in North Dakota. N. Dak. Agr. Expt. Sta. Bimo. B. 11(3): 98-99. Jan./Feb. 1949. 100 N813B
- 33271 SCHWARTZ, D. Épidémiologie de la mosaïque du tabac. Soc. Statist. de Paris. J. 89: 475-490. Nov./Dec. 1948. 260 P212J
- 33272 SEVERIN, H. H. P. Additional virus diseases of spinach in California. Hilgardia 18: 553-558. Ref. Nov. 1948. 100 C12H
- 33273 SEVERIN, H. H. P., and TOMPKINS, C. M. Aphid transmission of mild mosaic virus of annual stock. Hilgardia 18: 539-552. Nov. 1948. 100 C12H
- 33274 SHARP, D. G., and WOLF, F. A. The virus of tobacco leaf-curl. Phytopathology 39: 225-230. Ref. Mar. 1949. 464.8 P56
- 33275 SHEWELL-COOPER, W. E. Kentish fruit research; progress made on strawberry virus problems. Field 193: 79. Jan. 15, 1949. 10 F45
- 33276 SIMONDS, A. O. Apricots and plums as hosts of western X-disease. Science 109: 199. Feb. 25, 1949. 470 Sci2
- 33277 SMEDGÅRD, G. Quality potatoes is the big aim: the seed grower and the potato viruses. (In Swedish.) Lantmannen 33: 127-128. Feb. 19, 1949. 11 L234
- 33278 SYLVESTER, E. S. Transmission of sugar beet yellow-net virus by the green peach aphid [Myzus persicae]. Phytopathology 39: 117-132. Ref. Feb. 1949. 464.8 P56
- 33279 TAKAHASHI, W. N., and RAWLINS, T. E. The effect of washing frozen mosaic leaves on the length of tobacco mosaic virus particles. J. Bact. 57: 131-134. Jan. 1949. 448.3 J82
- 33280 VALLEAU, W. D. The genetics of mosaic resistance in Nicotiana glutinosa. J. Agr. Res. 78: 77-79. Feb. 1/15, 1949. 1 Ag84J
- 33281 WANT, J. P. H. VAN DER, and ROZENDAAL, A. An electron microscope study of the virus causing rattle disease of tobacco and stem-mottle of potato. (In Dutch.) Tijdschr. over Plantenziekten 54: 134-146. Ref. July/Aug. 1948. 464.8 T44  
English summary.
- 33282 WILLISON, R. S. Some observations on cherry viroses in Ontario. (Abs.) Canad. Phytopath. Soc. Proc. (1948) 15: 13. 1949. 464.9 C162
- 33283 WRIGHT, C. M., and others. The 1948 little cherry and western X disease survey. Wash. State Hort. Assoc. Proc. 44: 227-231. 1948. 81 W273  
E. C. Blodgett, E. L. Reeves, and H. E. Williams, joint authors.

## Diseases Caused by Nematodes

- 33284 ALLARD, R. W. Westan variety is resistant to root-knot nematodes in lima beans. Fruit & Veg. Rev. 9(12): 15. Mar. 1949. 80 C1224
- 33285 ALLEN, M. W. Root-lesion nematodes; resistant rootstocks most promising method of control. Calif. Agr. [Calif. Sta.] 3: 8, 14. Jan. 1949. 100 C12Cag  
Similar title in Calif. Farmer, South. Ed. 190: 144-145. Feb. 12, 1949. 6 C126A
- 33286 ALLERTON, F. W. Control of Chrysanthemum eelworm. Nurseryman & Seedsman 108: 194-195. Jan. 20, 1949. 80 N933
- 33287 ALLERTON, F. W. Sure control of Chrysanthemum eelworm. Nurseryman & Seedsman 107: 1688-1690. Dec. 2, 1948. 80 N933
- 33288 ANDERSON, P. J. Blame for baffling tobacco disease [brown rootrot] laid to nematodes. Frontiers Plant Sci. 1: 7. Nov. 1948. 100 F92
- 33289 BINGEFORS, S. Crop rotation and "clover fatigue" caused by nematode attacks. (In Swedish.) Försök och Forskning 5: 94-95. Dec. 1948. 11 F77
- 33290 BURGIS, D. S., and BECKENBACH, J. R. Herbicides for control of weeds in vegetable seedbeds also control root-knot. Amer. Soc. Hort. Sci. Proc. 52: 461-463. Nov. 1948. 81 So12
- 33291 CURCIO, M. On the root nematode (Heterodera marioni). (In Italian.) Tabacco 52: 290-296. Oct. 1948. 69.8 T115
- 33292 JEFFERS, W. F. Meeting the increasing nematode problem on the Eastern Shore. Peninsula Hort. Soc. Trans. 62: 101-103. 1948. 81 P37
- 33293 MARRIAN, D. H. The potato eelworm hatching factor. Cambridge. U. Abs. Diss. 1946/47: 56-57. 1948. 241.8 C14
- 33294 MULLISON, W. R. Nematode control in nuticulture. Amer. Soc. Hort. Sci. Proc. 52: 467-470. Nov. 1948. 81 So12
- 33295 PETERS, B. G. Potato root eelworm [Heterodera rostochiensis], D-D, and soil sterilization. I-II. J. Helminthol. 22: 117-138. 1947/1948. 436.8 J82  
I. Methods and criteria. II. Results for 1946.
- 33296 PETERS, B. G. The potato root eelworm [Heterodera rostochiensis] problem. Gt. Brit. Min. Agr. Agriculture 55: 493-498. Ref. Feb. 1949. 10 G79J
- 33297 SMITH, W. P. C., and HARVEY, H. L. The control of root-knot or eelworm-gall disease by soil fumigation with D-D. West. Austral. Dept. Agr. J. 2 ser. 25: 283-290. Sept. 1948. 23 W52J  
Caused by Heterodera marioni.
- 33298 TYLER, J. EDB [Ethylene dibromide] and nematode control. Hawaii Farm & Home 12: 58-59, 68. Jan. 1949. 25 H3191

## ECOLOGY

- 33299 ARAUJO, A. V. DE. Geo-sociological aspects of the Amazon region. (In Portuguese.) Assoc. Com. do Amazonas. B. 8(88): 29-47. Nov. 1948. 286.9 As7B  
Includes plants.



33300 BERÉNY, D. The concept of plant-climate. (In Hungarian.) *Időjárás* 24: 175-176. Oct./Dec. 1948. 340.8 Id5

English summary, p. 240.

33301 BÖCHER, T. W. Plant geography and plant sociology. In *The humanities and the sciences in Denmark*, p. 309-312. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882

33302 BOGDANOVSKAIA-GIENEF, I. D. Regularities of development in the Polistovo-Lovafskii peat bogs. (In Russian.) *Pochvovedenie* 1948: 484-488. Aug. 1948. 57.8 P34

An ecological study.

33303 BRODY, S. Climate and efficiency of productive processes. In *American Council on Education. Committee on Southern Regional Studies and Education. Scientists look at resources*, p.44-73. Lexington, 1948. 280.002 Am3S

Plants and animals.

33304 CHANG, T. L. Ecological behavior of perennial cotton from Yunnan in Shensi. (In Chinese.) *Chin. J. Cotton* 1(2): 79-82. Nov. 11, 1948. 72.8 C444

English summary.

33305 CONFORTI, E. Associations of economic plants in tropical countries. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 42: 218-229. Ref. Oct./Dec. 1948. 26 Ag82

English summary.

33306 COTTAM, G., and CURTIS, J. T. A method for making rapid surveys of woodlands by means of pairs of randomly selected trees. *Ecology* 30: 101-104. Jan. 1949. 410 Ec7

33307 CURTIS, J. T., and GREENE, H. C. A study of relic Wisconsin prairies by the species-presence method. *Ecology* 30: 83-92. Ref. Jan. 1949. 410 Ec7

33308 DUCHAUFOR, P. Note sur la végétation des dunes calcaires de l'île d'Oléron (Forêt Domaniale de Saint-Trojan). *Soc. Bot. de France B.* 95: 202-205. May/June 1948. 451 F84B

33309 FANSHAW, D. B., and SWABEY, C. Botanical and ecological exploration in Guiana. *Timehri* 28: 19-23. Dec. 1948. 9.6 Ti18

33310 HÉDIN, L. L'écologie des prairies—méthodes de recherches. *Acad. d'Agr. de France. Compt. Rend.* 34: 936-939. Nov. 24/Dec. 1, 1948. 14 P215Bc

With note by A. Chevalier.

33311 IUNATOV, A. A. Zonal analysis of vegetative cover of the Mongolian Republic. (In Russian.) *Vsesoifuzn. Geog. Obsch. Izv.* 80: 346-360. Ref. July/Aug. 1948. 511 L546

33312 KIREEV, A. F. I. M. Krashennikov's "Cycle" in the Ilovli River Valley. (In Russian.) *Vsesoifuzn. Geog. Obsch. Izv.* 80: 525-529. Ref. Sept./Oct. 1948. 511 L546

Reference to his work "Cycle of development of vegetation in valleys of the steppe zones of Eurasia." An ecological study.

33313 LÜDI, W. Die pflanzengesellschaften der Schinigeplatte bei Interlaken und ihre Beziehungen zur Umwelt, eine vergleichend ökologische Untersuchung. *Geobot. Inst. Rübel. Zürich. Veröffentl.* 23, 400 p. 1948. 451 Z83

33314 NIELSEN, E. S. Plant ecology. In *The humanities and the sciences in Denmark*, p. 306-308. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882

33315 RENÉ, G. Matériaux pour une bibliographie phytosociologique de la Belgique. *Ann. de Gembloux* 54: 238-259. Ref. Fourth Quart. 1948. 13 G28

33316 RONDON, Y. Cinq lichens citadins. *Feuille des Nat. (n. s.)* 2: 74. July/Aug. 1947. 410 F432

An ecological note.

33317 SŁAWIŃSKI, W. Właściwości komponentów drzewnych buczyn zamojskich (Fagetum zamoscience) i spis pospolitszych gatunków flory mikologicznej atakującej drzewa. Properties of tree components of the beech forests (Fagetum zamoscience) and the list of common species of micologic flora invading trees. *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. E* 3: 49-61. Ref. Apr. 15, 1948. 512 L96Ae

English summary.

33318 STEUBING, E. Einfluss der Brandung auf die Sandstrandvegetation. *Z. f. Naturf.* 3b: 293-298. July/Aug. 1948. 474 Z3

33319 STEWART, G., and HULL, A. C. Cheatgrass (*Bromus tectorum* L.)—an ecologic intruder in southern Idaho. *Ecology* 30: 58-74. Ref. Jan. 1949. 410 Ec7

33320 WENT, F. W. Ecology of desert plants. II. The effect of rain and temperature on germination and growth. *Ecology* 30: 1-13. Jan. 1949. 410 Ec7

33321 WENT, F. W., and WESTERGAARD, M. Ecology of desert plants. III. Development of plants in the Death Valley National Monument, California. *Ecology* 30: 26-38. Jan. 1949. 410 Ec7

33322 WILLIAMS, L. G. Seasonal alternation of marine floras at Cape Lookout, North Carolina. *Amer. J. Bot.* 35: 682-695. Ref. Dec. 1948. 450 Am36

33323 WUTTKE, G. Pflanzensoziologie. *Thür. Gartenbau* 1948: 203-204. Dec. 1, 1948. 80 T42

#### MORPHOLOGY, ANATOMY, AND CYTOLOGY

33324 ANDERSON, E., and BROWN, W. L. A morphological analysis of row number in maize. *Mo. Bot. Gard. Ann.* 35: 323-336. Ref. Nov. 1948. 451 M69

33325 BAUM, H. Die Stellung der samenanlagen am karpell bei *Asclepias syriaca*, *Cynanchum vincetoxicum* und *Erythraea centaurium*. *Österr. Bot. Z.* 95: 251-256. Nov. 15, 1948. 450 Os7

33326 BLACKHURST, H. T. Cytogenetic studies on *Rosa rubiginosa* and its hybrids. *Amer. Soc. Hort. Sci. Proc.* 52: 510-516. Nov. 1948. 81 So12

33327 BOLD, H. C. The morphology of *Chlamydomonas chlamydogama*, sp. nov. *Torrey Bot. Club. B.* 76: 101-108. Ref. Mar./Apr. 1949. 451 T63B

33328 BONNETT, O. T. Ear and tassel development in maize. *Mo. Bot. Gard. Ann.* 35: 269-287. Ref. Nov. 1948. 451 M69

33329 BORGET, M. Fasciation des branches chez l'*Hevea brasiliensis*; intérêt du phénomène chez le clone AVROS 164. *Inst. des Rech. sur le Caoutchouc en Indochine. Cahiers I. R. C. I.* 3: 33-35. 1948. 78.9 In7

33330 CLENDENNING, K. A. Growth studies of normal and parthenocarpic tomato fruits. *Canad. J. Res. Sect. C, Bot. Sci.* 26: 507-513. Ref. Dec. 1948. 470 C16C

33331 CONDIT, I. J. Parthenocarpy in caprifigs. *Amer. Soc. Hort. Sci. Proc.* 52: 233-236. Nov. 1948. 81 So12

33332 COSTA, C. A. Pseudo-frutos intracarpicos en ajíes. *Rev. Argentina de Agron.* 15: 245-247. Dec. 1948. 9 R327

33333 CUENOD, A. Le sommet végétatif du *Mesembryanthemum edule*. *Rev. Sci. [Paris]* 86: 288-289. Mar. 1/15, 1948. 473 R32

33334 CUTLER, H. C., and CUTLER, M. C. Studies on the structure of the maize plant. *Mo. Bot. Gard. Ann.* 35: 301-316. Ref. Nov. 1948. 451 M69

33335 DAVIES, F. R., and others. Influence of saprophytic microorganisms on the sporulation of *Ophiobolus graminis* Sacc. (Abs.) *Canad. Phytopath. Soc. Proc.* (1948) 15: 12. 1949. 464.9 C162

A. W. Henry, A. W. Jackson, and J. D. Gilpatrick, joint authors.

33336 DAYSSON, G. Sur l'effet tropocinétisant des agents mitoclasiques. *Soc. Bot. de France B.* 95: 206-211. May/June 1948. 451 F84B

33337 DODD, J. D. On the shapes of cells in the cambial zone of *Pinus silvestris* L. *Amer. J. Bot.* 35: 666-682. Ref. Dec. 1948. 450 Am36

33338 DOUWES, H. Plasma, polyploidy, and cell magnitude. On reciprocal difference in hybrids of triploid and tetraploid races of *Epilobium hirsutum*. (In Dutch.) *Genetica* 24: 161-198. Ref. 1948. 442.8 G282

French and English summaries.

33339 DREW, K. M. In situ development of carpospores of *Bonnemaisonia asparagoides*. *Nature [London]* 163: 253-254. Feb. 12, 1949. 472 N21

33340 DUNLOP, D. W. Casparian strips in *Isoetes macrospora*. *Torrey Bot. Club. B.* 76: 134-135. Mar./Apr. 1949. 451 T63B

33341 ERICKSON, R. C. Cytological and growth correlations in the flower bud and anther of *Lilium longiflorum*. *Amer. J. Bot.* 35: 729-739. Dec. 1948. 450 Am36

33342 FELDMANN, J., and SCHOTTER, G. Sur la structure du pyrénolide chez les Rhodophycées. *Paris. Acad. des Sci. Compt. Rend.* 228: 196-198. Jan. 10, 1949. 505 P21



- 33343 GAISER, L. O. Chromosome studies in *Liatris*. I. Spicatae and Pycnostachyae. Amer. J. Bot. 36: 122-135. Ref. Jan. 1949. 450 Am36
- 33344 GANGULY, J. K. Studies in the embryology of *Anisomeles indica* O. Kze and *Leonurus sibiricus* Linn. Natl. Inst. Sci. India. Proc. 14: 181-212. Ref. Apr. 1948. 513 N212
- 33345 GEITLER, L. Ergebnisse und probleme der endomitoseforschung. Österr. Bot. Z. 95: 277-299. Ref. Nov. 15, 1948. 450 Os7
- 33346 GOODWIN, R. H. Variation in a natural population of *Plantago aristata*. Torrey Bot. Club. B. 76: 109-115. Mar./Apr. 1949. 451 T63B
- 33347 GURNETT-SMITH, A. F. Function of root-hairs in plants. Citrus Leaves 29(2): 16. Feb. 1949. 80 C492
- 33348 HALL, C. The nettle's sting. Amateur Gard. Ann. 1949: 98. 80 Am12
- 33349 HAMILTON, H. H. A developmental study of the apical meristem in four varieties of *Avena sativa* grown at two temperatures. Amer. J. Bot. 35: 656-665. Ref. Dec. 1948. 450 Am36
- 33350 HARDER, R., and KOCH, W. Life-history of *Bonnemaisonia hamifera* (Trailliella intricata). Nature [London] 163: 106. Jan. 15, 1949. 472 N21\*
- 33351 HARMON, S. A. Preliminary studies on the top system of the bunch Porto Rico sweet potato. Amer. Soc. Hort. Sci. Proc. 52: 311-312. Nov. 1948. 81 So12
- 33352 HENRY, P. Un Elaeis remarquable : le palmier à huile vivipare. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 28: 422-427. Sept./Oct. 1948. 26 R323
- 33353 HILTZ, P. Note préliminaire sur la cytologie des cellules à cystolites de *Ficus elastica*. Etude du système vacuolaire. Paris. Acad. des Sci. Compt. Rend. 228: 194-196. Jan. 10, 1949. 505 P21
- 33354 HIRSCH, H. E. The cytogenetics of sex in *Hymenocys solani* f. cucurbitae. Amer. J. Bot. 36: 113-121. Ref. Jan. 1949. 450 Am36
- 33355 HUBER, B., and KOLBE, R. W. Elektronenmikroskopische untersuchungen an siebröhren. Svensk Bot. Tidskr. 42: 364-371. Ref. 1948. 450 Sv2
- 33356 JOVET-AST, S. Remarques sur les oléocorps et les ocelles de quelques Hépatiques du Congo. Rev. Bryologique et Lichénologique (n. s.) 17: 35-39. 1948. 450 R325
- 33357 KELLY, S. M., and BLACK, L. M. The origin, development and cell structure of a virus tumor in plants. Amer. J. Bot. 36: 65-73. Ref. Jan. 1949. 450 Am36
- 33358 KNAYSI, G. Cytology of bacteria. II. Bot. Rev. 15: 106-151. Ref. Feb. 1949. 450 B6527
- 33359 KØIE, M. Morphologic and systematic botany (excluding mycology). In The humanities and the sciences in Denmark, p. 297-299. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- 33360 LAUBENGAYER, R. A. The vascular anatomy of the four-rowed ear of corn. Mo. Bot. Gard. Ann. 35: 337-340. Nov. 1948. 451 M69
- 33361 LAWALRÉE, A. Histogénèse florale et végétative chez quelques Composées. Cellule 52: 213-294. Ref. 1948. 442.8 C33
- 33362 LEBÈGUE, A. Embryogénie des *Oenothera*-cées. Développement de l'embryon chez l'*Epilobium montanum* L. Soc. Bot. de France B. 95: 173-178. Ref. May/June 1948. 451 F84B
- 33363 LENZ, L. W. Comparative histology of the female inflorescence of *Zea mays* L. Mo. Bot. Gard. Ann. 35: 353-376. Ref. Nov. 1948. 451 M69
- 33364 LOUNSBERRY, C. C. Morphology and structure of the walnut. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 72-74. 1948. 94.69 N81
- 33365 MCGUGAN, J. M. Seeds and seedlings of the genus *Brassica*. Canad. J. Res. Sect. C, Bot. Sci. 26: 520-587. Ref. Dec. 1948. 470 C16C
- 33366 MANN, L. K. Morphological development of parthenocarpic fruits. Amer. Soc. Hort. Sci. Proc. 52: 226-232. Ref. Nov. 1948. 81 So12
- 33367 MARTENS, P. Les paraphyses de *Polypodium vulgare* et la sous-espèce serratum. Paris. Acad. des Sci. Compt. Rend. 228: 502-504. Feb. 7, 1949. 505 P21
- 33368 MEYER, K. I. Prakticheskiy kurs morfologii i sistematiki vysshikh rasteniy [Practical course in morphology and systematics of higher plants]. Ed. 2, rev. and enl. Moskva, "Sovetskaya Nauka," 1948. 182 p. 463.4 M47
- 33369 NEVA, A. C., and FISCHER, E. B. A comparative pharmacognostical study of *Plantago purshii* R. & S. and *Plantago aristata* Michx. seeds with the present N. F. VIII *Plantago* seeds. Amer. Pharm. Assoc. J. Sci. Ed. 38: 34-41. Jan. 1949. 396.9 Am33J
- Abs. of PhD thesis, Univ. of Minnesota.
- 33370 OLIVE, L. S. Karyogamy and meiosis in the rust *Coleosporium vernoniae*. Amer. J. Bot. 36: 41-54. Ref. Jan. 1949. 450 Am36
- 33371 PHILIPSON, W. R. The ontogeny of the shoot apex in dicotyledons. Cambridge Phil. Soc. Biol. Rev. 24: 21-50. Ref. Jan. 1949. 442.9 C14
- 33372 PICHON, M. Classification des Apocynacées: XIX. Le rétinacle des Echitoidées. Soc. Bot. de France B. 95: 211-216. May/June 1948. 451 F84B
- 33373 PRAT, H. General features of the epidermis in *Zea mays*. Mo. Bot. Gard. Ann. 35: 341-351. Nov. 1948. 451 M69
- 33374 PRESTON, R. D., and others. An electron microscope study of cellulose in the wall of *Valonia ventricosa*. Nature [London] 162: 665-667. Ref. Oct. 23, 1948. 472 N21
- E. Nicolai, R. Reed, and A. Millard, joint authors.
- 33375 PREVOT, P. C. Contribution à l'histologie des phénomènes de néoformation chez *Begonia rex* Putz. Rev. Sci. [Paris] 86: 275-285. Mar. 1/15, 1948. 473 R32
- 33376 RABAUD, É. Les plantes-piège. Feuille des Nat. (n. s.) 2: 23-24. Feb./Mar. 1947. 410 F432
- For insect pollination.
- 33377 REZENDE-PINTO, M. C. DE. The problem of the origin of plastids. (In Portuguese.) Brotéria 17: 1-48. Ref. 1948. 410 B79C
- Observations on *Culcita macrocarpa*, *Solanum tuberosum* and *Iris germanica*.
- 33378 SAURA, F. Cariologia de Gramineas en Argentina. Buenos Aires U., Facul. de Agron y Vet. Rev. 12: 51-67. Ref. Nov. 1948. 9 B863
- English summary.
- Chromosome counts.
- 33379 SOUÈGES, R. Les lois du développement de l'embryon chez le *Lupinus polyphyllus* Lindl. Soc. Bot. de France B. 95: 184-191. May/June 1948. 451 F84B
- 33380 STEPHENS, S. G. A comparative developmental study of a dwarf mutant in maize, and its bearing on the interpretation of tassel and ear structure. Mo. Bot. Gard. Ann. 35: 289-299. Ref. Nov. 1948. 451 M69
- 33381 STERLING, C. Embryonic differentiation in *Taxus cuspidata*. Torrey Bot. Club. B. 76: 116-133. Ref. Mar./Apr. 1949. 451 T63B
- 33382 TSCHERMAK-WOESS, E. Zytologische untersuchungen an den *Alisma*-arten der umgebung Wiens. Österr. Bot. Z. 95: 270-276. Ref. Nov. 15, 1948. 450 Cs7
- 33383 UHL, C. H. Cytotaxonomic studies in the sub-families Crassuloideae, Kalanchoideae, and Cotyledonoidae of the Crassulaceae. Amer. J. Bot. 35: 695-706. Ref. Dec. 1948. 450 Am36
- 33384 VOS, M. P. DE. The development of the ovule and the seed in the Hypoxidoideae. I. *Ianthé Salisb.* J. So. African Bot. 14: 159-169. Ref. Oct. 1948. 450 J262
- 33385 WEATHERWAX, P. Right-handed and left-handed corn embryos. Mo. Bot. Gard. Ann. 35: 317-321. Nov. 1948. 451 M69
- 33386 ZOHARY, M. Carpological studies in Cruciferae. Palestine J. Bot., Jerusalem Ser. 4: 158-165. Ref. Mar. 1948. 450 P17
- 33387 ZOHARY, M. Follicular dehiscence in Cruciferae. Lloydia 11: 226-228. Sept. 1948. 442.8 L77

## GENETICS

- 33388 AIZENSHTAT, I. A. S. Effect of pollination time on the development of recessive characteristics in tomatoes. (In Russian.) Selekt. i Semen. 15(6): 12-17. June 1948. 61.9 Se5
- 33389 ALLARD, R. W. A cytogenetic study dealing with the transfer of genes from *Triticum timopheevi* to common wheat by backcrossing. J. Agr. Res. 78: 33-64. Ref. Feb. 1/15, 1949. 1 Ag84J



- 33390 BOLOGNA. ISTITUTO DI ALLEVAMENTO VEGETALE PER LA CEREALICOLTURA. Miglioramento genetico nell'attività sperimentale 1946-47 [Genetic improvement in experimental activity 1946-47], by M. Bonvicini. Bologna, Cuppini, 1948. 78 p. 463.6 B633
- 33391 CHANG, T. S., and CHANG, T. L. On the genetical behavior of several mutants in Upland cotton. (In Chinese.) Chin. J. Cotton 1(2): 83-94. Nov. 11, 1948. 72.8 C444  
English summary.
- 33392 DARLINGTON, C. D. Threat of disease in tropical crops. Nature [London] 163: 332. Feb. 26, 1949. 472 N21  
Necessity for long-continued plant breeding.
- 33393 DRAGHETTI, A. Man as a transformer of flora and fauna types. (In Italian.) Humus 5: 5-6. Jan. 1949. 16 H88
- 33394 EIKHFEL'D, I. G. Increase of plant resources and the problems of plant breeders. (In Russian.) Agrobiologiya 1948(3): 3-18. May/June 1948. 20 Ag822  
Plant collections and research at Vsesoiuznyĭ Institut Rastenievodstva.
- 33395 FASSETT, N. C. The variations of *Polygonum punctatum*. Brittonia 6: 369-393. Feb. 21, 1949. 450 B77
- 33396 FONDARD, L. La génétique et l'avenir de l'agriculture. Bouches du Rhone Agr. 22(996): 18. Feb. 15, 1949. 14 B662  
Plants and animals.
- 33397 FORLANI, R. Notes on "pure lines." (In Italian.) Humus 5: 25-26. Jan. 1949. 16 H88  
Genetics.
- 33398 FRETTS, G. P. The F<sub>4</sub> seed generation of 1936 in crosses between two clean lines of *Phaseolus vulgaris*. (In Dutch.) Nederland. Akad. van Wetensch. Proc. 52: 76-86. 1949. 503 Am8P
- 33399 GAGNIEU, A. Hérédité polysomique: travaux récents, points de vue actuels sur l'étude des polyploïdes. Ann. Biol. [Paris] (ser. 3) 24: 321-350. Sept./Oct. 1948. 442.8 An7  
Plants.
- 33400 GYÖRFFY, I. Heredity and perturbed thallus of Hepatic. On the disturbed thalli of the *Chomocarpon commutatus* of Austria. Rev. Bryologique et Lichénologique (n. s.) 17: 119-125. 1948. 450 R325
- 33401 HOWARD, W. L. The Luther Burbank Centennial. Flower Grower 36: 240-241, 268-271. Mar. 1949. 80 M72
- 33402 HUGHES, M. B. The inheritance of two characters of *Cucumis melo* and their interrelationship. Amer. Soc. Hort. Sci. Proc. 52: 399-402. Nov. 1948. 81 So12
- 33403 JOHNSON, L. P. V. The need for fundamental research in genetics. Alberta. U. Dept. Plant Sci. Seasonal Notes 34: 9-10. Jan. 8, 1949. 64.9 AL12
- 33404 JØRGENSEN, C. A. Genetics and cytology. In The humanities and the sciences in Denmark, p. 316-321. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- 33405 KHOSHOO, T. N. A mutant *Cedrus deodara*, Loudon. Cur. Sci. 18: 12. Jan. 1949. 475 Sci23
- 33406 KOZLOVA, F. I. Effect of different pollen parents on variability in buckwheat. (In Russian.) Selek. i Semen. 15(8): 28-30. Aug. 1948. 61.9 Se5
- 33407 KRISHNASWAMY, N., and RAMAN, V. S. A note on the amphidiploid of the hybrid of *Pennisetum typhoides* Stapf. and Hubbard-P. *purpureum* Schumacher. Cur. Sci. 18: 15-16. Jan. 1949. 475 Sci23
- 33408 LANGHAM, D. G., and RODRIGUEZ, M. Abrete sesamo; ajonjolí (*Sesamum indicum* L.) que no pierde semillas. Venezuela. Dept. de Genet. C. 17, 9 p. July 1947. 64.9 V55  
English summary.
- 33409 LANGHAM, D. G. Algunas variaciones genéticas en la flor de ajonjolí (*Sesamum indicum* L.) Venezuela. Dept. de Genet. C. 18, 10 p. July 1947. 64.9 V55
- 33410 LANGHAM, D. G. Ausencia de un color amarillo en la foveola de la flor de ajonjolí (*Sesamum indicum* L.). Venezuela. Dept. de Genet. C. 25, 5 p. July 1947. 64.9 V55  
English summary.
- 33411 LANGHAM, D. G. Cogollo morado y cogollo verde en las plantulas de ajonjolí (*Sesamum indicum* L.). Venezuela. Dept. de Genet. C. 23, 4 p. July 1947. 64.9 V55  
English summary.
- 33412 LANGHAM, D. G. Flor blanca en el ajonjolí (*Sesamum indicum* L.). Venezuela. Dept. de Genet. C. 29, 4 p. July 1947. 64.9 V55  
English summary.
- 33413 LANGHAM, D. G. La forma de heredarse la pubescencia en la base interior de la flor de ajonjolí (*Sesamum indicum* L.). Venezuela. Dept. de Genet. C. 20, 6 p. July 1947. 64.9 V55  
English summary.
- 33414 LANGHAM, D. G., and RODRIGUEZ, M. Herencia del tipo de cápsula en el ajonjolí (*Sesamum indicum* L.). Venezuela. Dept. de Genet. C. 24, 7 p. July 1947. 64.9 V55  
English summary.
- 33415 LANGHAM, D. G. Hoja matizada en el ajonjolí (*Sesamum indicum* L.). Venezuela. Dept. de Genet. C. 22, 4 p. July 1947. 64.9 V55  
English summary.
- 33416 LANGHAM, D. G. El tipo de herencia de un color rojo en la base interior de la corola de la flor del ajonjolí (*Sesamum indicum* L.). Venezuela. Dept. de Genet. C. 21, 7 p. July 1947. 64.9 V55  
English summary.
- 33417 LANGHAM, D. S. Algunos colores que se presentan en las plantas de ajonjolí (*Sesamum indicum* L.) Venezuela. Dept. de Genet. C. 19, 4 p. July 1947. 64.9 V55  
English summary.
- 33418 LARSON, R. E., and PAUR, S. The description and inheritance of a functionally sterile flower mutant in tomato and its probable value in hybrid tomato seed production. Amer. Soc. Hort. Sci. Proc. 52: 355-364. Ref. Nov. 1948. 81 So12
- 33419 LARSON, R. E. Functional sterile mutant may make hybrid tomato seed readily available. Sci. Farmer [Pa. Sta.], 1949: 10-11. Mar. 1949. 100 P381
- 33420 LASSER, E. Aufgaben der pflanzenzüchtung in Österreich. II. Kärntner Bauer 98: 347-348. Nov. 1, 1948. 19 K14
- 33421 LEE, S. H. The effects of bud pollination on fertility and F<sub>1</sub> fruit characters of some Chinese Brassicas. Amer. Soc. Hort. Sci. Proc. 52: 435-440. Ref. Nov. 1948. 81 So12
- 33422 LOOMIS, N. H. A note on the inheritance of flower type in Muscadine grapes. Amer. Soc. Hort. Sci. Proc. 52: 276-278. Nov. 1948. 81 So12
- 33423 MA, S. T., and WANG, Y. C. Genetical behavior of green fuzz of Upland cotton and its relation to some of the economic characters. (In Chinese.) Chin. J. Cotton 1(2): 95-106. Nov. 11, 1948. 72.8 C444  
English summary.
- 33424 MALLYA, P. B., and SUBRAMANIAM, M. K. Genic differences and rate of growth in yeasts. Nature [London] 163: 251-252. Feb. 12, 1949. 472 N21
- 33425 MANDY, G. Plant breeding in Hungary with regard to the developing of climatical resistance. (In Hungarian.) Időjárás 24: 155-157. Oct./Dec. 1948. 340.8 Id5  
English summary, p. 240.
- 33426 MANGELSDORF, P. C. The role of pod corn in the origin and evolution of maize. Mo. Bot. Gard. Ann. 35: 377-406. Ref. Nov. 1948. 451 M69  
Zea mays tunicata.
- 33427 POPOV, G. I. Defining a variety must have some purpose. (In Russian.) Selek. i Semen. 15(8): 31-34. Aug. 1948. 61.9 Se5  
Plant breeding.
- 33428 RICHHARIA, R. H. Sex inheritance in *Luffa acutangula*. Cur. Sci. 17: 359. Dec. 1948. 475 Sci23
- 33429 RICK, C. M. Genetics and development of nine male-sterile tomato mutants. Hilgardia 18: 599-633. Ref. Dec. 1948. 100 C12H
- 33430 RIEDL, W. A. The inheritance of tuber-set in *Solanum tuberosum* L. Wyo. Agr. Expt. Sta. B. 287, 33 p. Ref. Dec. 1948. 100 W99
- 33431 TODARO, F. Research in Sweden has a predominantly genetic character. (In Italian.) Gior. di Agr. 59: 29. Jan. 23, 1949. 16 It1G  
Plant genetics.



33432 TRAVIN, I. S. Formation of a variety. (In Russian.) Selek. i Semen. 15(8): 42-49. Aug. 1948. 61.9 Se5

Plant breeding.

33433 U. S. S. R. MINISTERSTVO SEL'SKOGO KHOZ'YAYSTVA. TEKHNIČESKII SOVET. At the meeting on additional artificial pollination of agricultural crops. (In Russian.) Selek. i Semen. 15(6): 76-79. June 1948. 61.9 Se5

33434 VENKATARAYAN, S. V. Sex reversal (heterogamy) in the jack-fruit tree, (*Artocarpus integrifolia*, Linn.). Cur. Sci. 18: 14-15. Jan. 1949. 475 Sci23

33435 WHEELER, H. E., and others. Genetics of *Glomerella*. V. Crozier and ascus development. Amer. J. Bot. 35: 722-728. Dec. 1948. 450 Am36

L. S. Olive, C. T. Ernest, and C. W. Edgerton, joint authors.

#### PHYSIOLOGY

33436 ABERG, B., and EKDAHL, I. Effects of nitrogen fertilization on the ascorbic acid content of green plants. Physiol. Plant. 1: 290-329. Ref. 1948. 450 P564

33437 AIYAR, S. P. The effects of potassium deficiency on rice. Indian Acad. Sci. Proc. Sect. B 28: 202-226. Ref. Dec. 1948. 513 In25B

33438 ALGÉUS, S. The utilization of glycocoll by *Chlorella vulgaris*. Physiol. Plant. 1: 236-244. 1948. 450 P564

33439 ALLEN, F. W. Bartlett pears; the possibilities of 2,4-D sprays in controlling preharvest drop. Calif. Agr. [Calif. Sta.] 3: 4, 13. Jan. 1949. 100 C12Cag

33440 ALVIM-CARNEIRO, P. DE T. Vernalization of garden plants. A review of the literature. (In Portuguese.) Rev. Ceres 7: 297-320. Ref. Jan./May 1948. 9.2 C332

33441 ANDERSON, W. L. The trace elements.

Hoard's Dairyman 94: 9, 39. Jan. 10, 1949. 44.8 H65  
First article in a series on trace element deficiencies in plants and animals.

33442 ANDUS, L. J. The mechanism of auxin action. Cambridge Phil. Soc. Biol. Rev. 24: 51-93. Ref. Jan. 1949. 442.9 C14

33443 ANTLES, L. C. Soil chemicals affect potency of pollens. Better Fruit 43(8): 26, 28-29. Feb. 1949. 80 B46

33444 ASHBY, E. Leaf shape and physiological age. Endeavour 8(29): 18-25. Jan. 1949. 472 En2

33445 BAILEY, J. S. A study of the rest period in red raspberries. Amer. Soc. Hort. Sci. Proc. 52: 265-270. Nov. 1948. 81 So12

33446 BALTADORI, A. Inversion of the relations of velocity and mass in wheat. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 621-622. May 1948. 442.8 So12  
Plant physiology.

33447 BALTADORI, A. The law of velocity and mass in the yield of agricultural plants. (In Italian.) Soc. Ital. di Biol. Sper. B. 24: 618-620. May 1948. 442.8 So12

Plant physiology.

33448 BARRY, J. P. Accidents d'origine physiologique sur les panicules du riz. Prog. Agr. et Vitic. 1949: 59. Jan. 30, 1949. 14 P94

33449 BASKETT, R. S., and SCOTT, C. E. Corral spot effect on beans in California. Plant Dis. Rptr. 33: 93-94. Feb. 15, 1949. 1.9 P69P  
Zinc deficiency.

33450 BEESON, K. C., and SMITH, S. E. Effect of fertilizers on the composition of plants. Cornell Nutr. Conf. Feed Mfrs. Proc. 1948: 62-65. 389.79 C81

33451 BERÉNYI, D. Mikroklimatikus mérések dohányban és napraforgóban. Microclimatological observations on tobacco and sunflower. Debrecen, 1948. 58 p. (Debrecen, Hungary. Tudománygyetem. Meteorológiai Intézetének. Közleményei. 8 B. Met. Inst. U. Debrecen. 8) 463.84 B452

33452 BERTON, A. L'*Oenanthe fluviatilis* fleurirait-il en 1947? Feuille des Nat. (n. s.) 2: 62. May/June 1947. 410 F432

33453 BERTON, A. Plantes lucifuges. Feuille des Nat. (n. s.) 2: 54. May/June 1947. 410 F432

33454 BOYNTON, D., COMPTON, O. C., and FISHER, E. Further work on leaf nitrogen and leaf color as measures of the nitrogen status of fruit trees. Amer. Soc. Hort. Sci. Proc. 52: 40-46. Nov. 1948. 81 So12

33455 BRANSFIELD, W. Trees and water. Trees [Dorchester] 12: 121-122. Winter 1948. 99.8 T714

33456 BRAY, R. H. Nitrogen hungry or nitrogen starved? Victory Farm Forum 34: 11-12. Mar. 1949. 281.8 F226

33457 BROOKS, R. M. Seasonal incidence of perfect and staminate olive flowers. Amer. Soc. Hort. Sci. Proc. 52: 213-218. Nov. 1948. 81 So12

33458 BRYAN, O. C. The nature of plant food. New England Gladiolus Soc. Gladiolus 24: 53-56. 1949. 96.43 N44

33459 BURSTRÖM, H. Observations on the influence of galactose on wheat roots. Physiol. Plant. 1: 209-215. 1948. 450 P564

33460 CANTINO, E. C. The physiology of the aquatic phycomycete, *Blastocladiella pringsheimii*, with emphasis on its nutrition and metabolism. Amer. J. Bot. 36: 95-112. Ref. Jan. 1949. 450 Am36

33461 CHAPLIN, C. E. Some artificial freezing tests of peach fruit buds. Amer. Soc. Hort. Sci. Proc. 52: 121-129. Ref. Nov. 1948. 81 So12

33462 CHENG, K. S., and JAN, Y. Studies on perennial cotton in Yunnan. V. A note on the development of branches and leaves. (In Chinese.) Chin. J. Cotton 1(2): 73-78. Ref. Nov. 11, 1948. 72.8 C444  
English summary.

33463 CHOUARD, P. Les progrès récents dans la connaissance et l'emploi des substances de croissance. Rev. Internat. de Bot. Appl. et d'Agr. Trop. 28: 427-452, 529-554. (Cont.) Sept./Oct.-Nov./Dec. 1948. 26 R323

33464 CLARK, L. H. Acetylene treatment of pineapple plants. (In Afrikaans.) Landbouweekblad 30(1542): 28. Feb. 2, 1949. 24 L232

33465 CORMACK, R. G. H. Intercellular inclusions in white mustard roots induced by colchicine treatment. Nature [London] 163: 362-363. Mar. 5, 1949. 472 N21

33466 CORTVRIENDT, S. F., and ONSEM, J. G. VAN. Les hormones et leurs applications principales dans l'horticulture. II. Rev. de l'Agr. 1: 911-916. Nov./Dec. 1948. 13 R322

33467 CRANE, H. L. Factors influencing the hardiness of woody plants. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 30-39. 1948. 94.69 N81

33468 CRANE, J. C. Fruit growth of four fig varieties as measured by diameter and fresh weight. Amer. Soc. Hort. Sci. Proc. 52: 237-244. Ref. Nov. 1948. 81 So12

33469 CRANE, J. C., and BLONDEAU, R. The use of growth-regulating chemicals to induce parthenocarpic fruit in the Calimyrna fig. (Abs.) Amer. Soc. Hort. Sci. Proc. 52: 236. Nov. 1948. 81 So12

33470 CRÉTÉ, P., and JANOT, M. M. Action de deux substances de croissance sur l'embryogénie du *Lychnis githago* Scop. Paris. Acad. des Sci. Compt. Rend. 228: 336-338. Jan. 24, 1949. 505 P21

33471 DEVAUX, H. La diversité des durées de germination des grains d'un même épi de blé. Paris. Acad. des Sci. Compt. Rend. 228: 145-147. Jan. 10, 1949. 505 P21

33472 DÍAZ, J. R. Postmaduración de semillas y cultivo de embriones de duraznero. Buenos Aires U., Facul. de Agron. y Vet. Rev. 12: 80-113. Ref. Nov. 1948. 9 B863

English summary.

33473 DILLEMANN, G. L'auto-incompatibilité chez les phanérogames. Rev. Sci. [Paris] 86: 303-314. Ref. Mar. 1/15, 1948. 473 R32

33474 DROUHET, E., and SEGRETAINE, G. Action de l'hyaluronidase sur la capsule de *Torula histolytica*. Paris. Acad. des Sci. Compt. Rend. 228: 424-425. Jan. 31, 1949. 505 P21

33475 DUPÉRON, R. Influence de la printanisation sur l'évolution des lipides et des glucides chez le *Sinapis alba*. Paris. Acad. des Sci. Compt. Rend. 228: 192-194. Jan. 10, 1949. 505 P21

33476 EDGERTON, L. J. Peach fruit bud hardiness as affected by blossom thinning treatments. Amer. Soc. Hort. Sci. Proc. 52: 112-114. Nov. 1948. 81 So12



- 33477 EMSWELLER, S. L. Colchicine-induced polyploidy in *Lilium longiflorum*. *Amer. J. Bot.* 36: 135-144. Ref. Jan. 1949. 450 Am36
- 33478 EVENARI, M. Germination inhibitors. *Bot. Rev.* 15: 153-194. Ref. Mar. 1949. 450 B6527
- 33479 EVENARI, M., KONIS, E., and ZIRKIN, D. On the germination of some rosaceous seeds. II. The germination of *Kerassi* seeds. *Palestine J. Bot., Jerusalem Ser.* 4: 166-170. Mar. 1948. 450 P17
- 33480 FAASE, J. G. Effect of temperature on the blooming of hyacinth. (In Dutch.) *Tuinbouw* 4: 16-17. Jan. 1949. 80 T815
- 33481 FAULKNER, R. P. Trace-element deficiencies. *Amateur Gard. Ann.* 1949: 95. 80 Am12
- 33482 FEHÉR, D. Untersuchungen über die biologische Wirkung der durchdringenden Strahlung der Elemente. *X. Erdészeti Kisérletek* 48: 45-54. 1948. 99.9 Er22
- English summary.
- 33483 FRANÇOT, P., and MAURO, J. Action des phytohormones sur la vigne. *Off. Internatl. du Vin. B.* 21(214): 32-45. Dec. 1948. 390.8 B87
- 33484 FRANCK, J., and LOOMIS, W. E., eds. Photosynthesis in plants. Ames, Iowa State Col. Press, 1949. 500 p. 463.34 F84
- Ch. 1, Photosynthesis—an introduction, by W. E. Loomis; Ch. 2, Photosynthesis under field conditions, by M. D. Thomas and G. R. Hill; Ch. 3, Products of photosynthesis, by J. H. C. Smith; Ch. 4, Diffusion through multiperforate septa, by J. Verduin; Ch. 5, The chloroplasts: their structure, composition, and development, by S. Granick; Ch. 6, Functions and properties of the chloroplast pigments, by H. H. Strain; Ch. 7, The photochemistry of chlorophyll, by R. Livingston; Ch. 8, Chlorophyll studies, by P. Rothemund; Ch. 9, Processes accompanying chlorophyll formation, by J. H. C. Smith; Ch. 10, The quantum requirement of photosynthesis, by R. Emerson and M. S. Nishimura; Ch. 11, Quantum efficiency of photosynthesis in *Chlorella*, by W. E. Moore and B. M. Duggar; Ch. 12, Quantum efficiencies for photosynthesis and photoreduction in green plants, by F. F. Rieke; Ch. 13, A calorimetric determination of the quantum yield in photosynthesis, by W. Arnold; Ch. 14, The photochemical liberation of oxygen from water by isolated chloroplasts, by A. S. Holt and C. S. French; Ch. 15, Chlorophyll fluorescence as an energy flowmeter for photosynthesis, by E. Katz; Ch. 16, The relation of the fluorescence of chlorophyll to photosynthesis, by J. Franck; Ch. 17, The pattern of photosynthesis in *Chlorella*, by J. Myers; Ch. 18, Some remarks on tracer researches in photosynthesis, by M. D. Kamen; Ch. 19,  $C^{14}$  in photosynthesis, by A. A. Benson, M. Calvin, V. A. Haas, S. Aronoff, A. G. Hall, J. A. Bassham, and J. W. Weigl; Ch. 20, Kinetics of a photochemical intermediate in photosynthesis, by A. H. Brown, E. W. Fager, and H. Gaffron; Ch. 21, Investigation of the chemical properties of intermediates in photosynthesis, by E. W. Fager; Ch. 22, The comparative biochemistry of photosynthesis, by C. B. Van Niel.
- 33485 FREAR, D. E. H., and others. Potassium content of various parts of the peach tree and their correlation with potassium fertilization—a sampling study. *Amer. Soc. Hort. Sci. Proc.* 52: 61-74. Nov. 1948. 81 So12
- R. D. Anthony, A. L. Haskins, and F. N. Hewetson, joint authors.
- 33486 FRIES, N. Viability and resistance of spontaneous mutations in *Ophiostoma* representing different degrees of heterotrophy. *Physiol. Plant.* 1: 330-341. Ref. 1948. 450 P564
- 33487 GABRIELSEN, E. K. Photosynthesis in leaves at very low carbon dioxide concentrations. *Nature [London]* 163: 359-360. Mar. 5, 1949. 472 N21
- 33488 GALSTON, A. W., and HAND, M. E. Studies on the physiology of light action. I. Auxin and the light inhibition of growth. *Amer. J. Bot.* 36: 85-94. Ref. Jan. 1949. 450 Am36
- 33489 GEITLER, L. Symbiosen zwischen Chrysomonaden und knospenden bakterien-artigen organismen sowie beobachtungen über organisationseigentümlichkeiten der Chrysomonaden. *Österr. Bot. Z.* 95: 300-324. Ref. Nov. 15, 1948. 450 Os7
- 33490 GODWIN, H. Plant biology; an outline of the principles underlying plant activity and structure. Ed. 4. Cambridge, U. Press, 1948. 308 p. 463 G54
- 33491 GOLUB, S. J., and WETMORE, R. H. Studies of development in the vegetative shoot of *Equisetum arvense* L. I-II. *Amer. J. Bot.* 35: 755-781. Ref. Dec. 1948. 450 Am36
- 33492 GRANGER, M. M., and LEIBY, R. W. How plants absorb parathion. *Agr. Chem.* 4(2): 34-35, 79-81, 83, 85. Feb. 1949. 381 Ag8
- 33493 HAAS, A. R. C. Potassium, calcium, and magnesium content in citrus flowers collected from trees on various rootstocks. *Amer. Soc. Hort. Sci. Proc.* 52: 7-10. Nov. 1948. 81 So12
- 33494 HAFFERT, W. A., JR. Radio-active plantings. *N. J. Farm & Gard.* 20(2): 16, 77. Feb. 1949. 6 G162
- Treatment of tomatoes with radioactive substance called alphetrol.
- 33495 HALL, C. B. Culture of *Solanum nigrum* embryos. *Amer. Soc. Hort. Sci. Proc.* 52: 343-346. Nov. 1948. 81 So12
- 33496 HALLIDAY, D. J. A guide to the uptake of plant nutrients by farm crops. *Imp. Chem. Indus. Jealott's Hill Res. Sta. B.* 7, 34 p. Ref. Mar. 1948. 103 Im7B
- 33497 HAVINGA, E., and NIVARD, R. J. F. Ultraviolet absorption spectra and stereochemical structure of plant growth substances of the cis cinnamic acid type and of stilboestrol. *Rec. des Trav. Chim. des Pays-Bas* 67: 846-854. Nov. 1948. 385 R24
- 33498 HEWITT, S. P., and CURTIS, O. F. The effect of temperature on loss of dry matter and carbohydrate from leaves by respiration and translocation. *Amer. J. Bot.* 35: 746-755. Ref. Dec. 1948. 450 Am36
- 33499 HILDEBRANDT, A. C., and RIKER, A. J. The influence of various carbon compounds on the growth of marigold, Paris-daisy, periwinkle, sunflower and tobacco tissue in vitro. *Amer. J. Bot.* 36: 74-85. Ref. Jan. 1949. 450 Am36
- 33500 HOAGLAND, D. R. Lectures on the inorganic nutrition of plants. Waltham, Mass., Chronica Botanica Co., 1948. v. 14, 226 p. 463.34 H65
- 33501 HOFFMANN-OSTENHOF, O., and REITMAIER, G. Untersuchungen über bakteriostatische chinone und andere antibiotica. VI. Über die hemmung des keimlingswachstums von *Lepidium sativum* durch verschiedene chinonderivate. *Akad. der Wiss. Wien. Math.-Nat. Kl. Sitzber. Abt. 2b* 157: 276-279. 1948. 510 V67
- 33502 JACOBONI, N. Affinity and metabolic intensity of grafted olives. (In Italian.) *Olivicoltura* 3(11): 3-7. Nov. 1948. 80 OL42
- 33503 JOHNSTON, W. H., WELLS, S. A., and KUSCH, A. G. Reaction of barley varieties to spring frost. *Sci. Agr.* 29: 60-68. Feb. 1949. 7 Sci2
- 33504 KAMP, J. R. The incidence of blindness in the Better Times rose. *Amer. Soc. Hort. Sci. Proc.* 52: 490-500. Nov. 1948. 81 So12
- 33505 KASTENDIECK, M. "Rosettenkrankheit" - eine ernste bedrohung des obstbaues? *Ceres [Hamburg]* 1948(9): 18-19. Sept. 1948. 80 C332
- 33506 KELNER, A. Effect of visible light on the recovery of *Streptomyces griseus* conidia from ultra-violet irradiation injury. *Natl. Acad. Sci. Proc.* 35: 73-79. Ref. Feb. 1949. 500 N21P
- 33507 KING, J. V., CAMPBELL, J. J. R., and EAGLES, B. A. The mineral requirements for fluorescein production. *Canad. J. Res. Sect. C, Bot. Sci.* 26: 514-519. Dec. 1948. 470 C16C
- Pseudomonas aeruginosa*.
- 33508 KIPLINGER, D. C., and ALGER, J. Interrupted shading of *Chrysanthemums*. *Amer. Soc. Hort. Sci. Proc.* 52: 478-480. Nov. 1948. 81 So12
- 33509 KOO, S. Effects of nitrogen on the growth and agronomic characters of cotton plant. (In Chinese.) *Chin. J. Cotton* 1(2): 28-46. Ref. Nov. 11, 1948. 72.8 C444
- English summary.
- 33510 KUPKA, H. Pflanzenhormon u. pflanzenährstoff "Welan." *Gärt.-Kurier* 3(21): 3-4. Nov. 1, 1948. 80 G1942
- 33511 LAMBETH, V. N. Nutrient-element balance and time of anthesis in tomato flowers. *Amer. Soc. Hort. Sci. Proc.* 52: 347-349. Nov. 1948. 81 So12
- 33512 LANDTSHEER, H. DE. La radiesthésie. *Rev. Agr. de l'Afrique du Nord* 46: 654-656. (Cont.) Dec. 24, 1948. 80 R326



- 33513 LARSEN, C. M. Hereditary variations in the sensitivity of *Avena* coleoptiles to growth substance. *Physiol. Plant.* 1: 265-277. Ref. 1948. 450 P564
- 33514 LARSEN, P. Conversion of indole acetaldehyde to indoleacetic acid in excised coleoptiles and in coleoptile juice. *Amer. J. Bot.* 36: 32-41. Ref. Jan. 1949. 450 Am36
- 33515 LARSEN, P. Plant physiology. In *The humanities and the sciences in Denmark*, p. 322-328. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- 33516 LASNIER, G. Sur l'hormone végétale anti-abscissive, l'acide naphthalène-acétique. *Rev. d'Oka* 22: 201-212. Ref. Nov./Dec. 1948. 7 Ok1
- 33517 LEITÓN JIMÉNEZ, J. J. Función cloroflica o fotosíntesis. *Agr. Mex.* 65: 11-14. Jan. 1949. 8 Ag8
- 33518 LHOSTE, J., and RAVAUULT, L. Étude de l'action de l'INPC [Isopropyl N Phenylcarbamate] sur quelques végétaux. *Acad. d'Agr. de France. Compt. Rend.* 34: 1007-1010. Ref. Dec. 8/22, 1948. 14 P215Bc
- 33519 LHOSTE, J. Hormones végétales de synthèse. *Feuille des Nat. (n. s.)* 2: 3-4. Jan. 1947. 410 F432
- 33520 LIWERANT, J. Contribution à l'étude de la nutrition du pêcher. 3. *Ann. Agron.* 18: 589-592. Sept./Oct. 1948. 14 An75A
- 33521 LORKH, A. G. Dinamika nakopeniia urozhai kartofeli [Dynamics of potato growth]. *Moskva, Sel'khozgiz*, 1948. 191 p. 75 L89D
- 33522 LOTT, W. L. Magnesium injection in Muscadine grape vines. *Amer. Soc. Hort. Sci. Proc.* 52: 283-288. Ref. Nov. 1948. 81 So12
- 33523 LOZA, J. Action des ultrasons sur les graines et les plantules des végétaux supérieurs. *Paris. Acad. des Sci. Compt. Rend.* 228: 595-596. Feb. 14, 1949. 505 P21
- 33524 LUSH, G. B. Some aspects of plant nutrition. (Abs.) *Chem. & Indus.* 1949: 159. Mar. 5, 1949. 382 M31C
- Relation of plant disease to mineral nutrition.
- 33525 LUTERAAN, P. J., LANGERON, M., and MERY J. Diverses réactions morphologiques et physiologiques des champignons à l'action de l'oxygène. *Paris. Acad. des Sci. Compt. Rend.* 228: 338-340. Jan. 24, 1949. 505 P21
- 33526 MCCARTNEY, J. S. A study of the effects of a-naphthaleneacetic acid on prolongation of rest in the Latham raspberry. *Amer. Soc. Hort. Sci. Proc.* 52: 271-275. Ref. Nov. 1948. 81 So12
- 33527 MCELWEE, E. W. The flowering response of the Veitch Gardenia to long-day treatment. *Amer. Soc. Hort. Sci. Proc.* 52: 475-477. Nov. 1948. 81 So12
- 33528 MACK, W. B. Nutritional imbalances related to fruit diseases. *Victory Farm Forum* 34: 14-15. Mar. 1949. 281.8 F226
- 33529 MARVIN, J. W. Changes in bark thickness during sap flow in sugar maples. *Science* 109: 231-232. Mar. 4, 1949. 470 Sci2
- 33530 MAUME, L., and DULAC, J. Comment se présente le redressement alimentaire dans les cas de carences diagnostiquées par l'analyse chimique de la feuille. *Acad. d'Agr. de France. Compt. Rend.* 34: 961-963. Dec. 8/22, 1948. 14 P215Bc
- 33531 MENTZER, C. Action favorable de l'acide  $\alpha$ -naphtylacétique sur l'enracinement et la croissance des boutures de platane (*Platanus orientalis* var. *acerifolia* Willd.). *Acad. d'Agr. de France. Compt. Rend.* 34: 983-986. Dec. 8/22, 1948. 14 P215Bc
- 33532 MILIAVSKIĬ, I. O. Change in absolute weight and in pods of sainfoin seeds during ripening. (In Russian.) *Selek. i Semen.* 15(6): 29-33. June 1948. 61.9 Se5
- 33533 MITCHELL, J. W., EZELL, B. D., and WILCOX, M. S. Effect of p-chlorophenoxyacetic acid on the vitamin C content of snap beans following harvest. *Science* 109: 202-203. Feb. 25, 1949. 470 Sci2
- 33534 MOEWUS, F. Über die erblichkeit des kopulationsverhaltens bei *Chlamydomonas*. *Z. f. Naturf.* 3b: 279-290. July/Aug. 1948. 474 Z3
- 33535 MONIGATTI, J. D. W., and others. Indicator plants. *New Zeal. Dept. Sci. and Indus. Res. Soil Bur. P.* 17: 58-71. 1948. 56.9 N482
- J. K. Johannesson, A. R. Browning, and R. J. W. McLaughlin, joint authors.
- 33536 MONTASIR, A. H. On the rate of transpiration in plants. *Inst. d'Égypte. B.* 29: 397-440. Ref. 1948. 515 Eg9
- 33537 MOSOLOV, I. V. Some characteristics of nitrogen nutrition in the plant when there is a deficiency of copper in the soil. (In Russian.) *Sovet. Agron.* 6(6): 59-61. June 1948. 20 So84
- Experiments with barley.
- 33538 MUNERATI, O. Observations on the reproduction of the sugar beet. (In Italian.) *Indus. Sac. Ital.* 41: 187-189. Sept./Oct. 1948. 65.8 In23
- 33539 NANK, E. Effects of pruning and wound dressings upon callusing. *Arborist's News* 14: 1-5. Jan. 1949. 99.8 Ar14
- 33540 NEFF, M. S., DROSDOFF, M., and SHARPE, R. Effect of different seedling rootstocks on growth, production, and nutrient absorption of tung clones. *Amer. Soc. Hort. Sci. Proc.* 52: 97-102. Nov. 1948. 81 So12
- 33541 NEFF, M. S., and PAINTER, J. H. Factors affecting branching and growth of newly transplanted tung trees trained to vase form. *Amer. Soc. Hort. Sci. Proc.* 52: 75-80. Nov. 1948. 81 So12
- 33542 NEW SOUTH WALES. DEPT. OF AGRICULTURE. The effect of length of day and temperature on the flowering, seed production and growth of vegetables. *N. S. Wales. Dept. Agr. Biol. Br. Plant Physiol. Leaflet* 2, 5 p. Ref. 1948. 451 N472
- 33543 OVANDO C., L. La colchicina como factor mutante. *Agros [Cochabamba]* 1: 81-83. Oct. 1948. 9.4 Ag86
- 33544 PADDOCK, E. F. Effects on tomatoes of field application of two hormone-insecticide-fungicide mixtures. *Amer. Soc. Hort. Sci. Proc.* 52: 365-367. Nov. 1948. 81 So12
- Alpha 2-Chlorophenoxy propionic acid and alpha 2,4,5-trichlorophenoxy propionic acid.
- 33545 PALIERI, G. Just vindication of Prof. Palieri; chemical thinning of fruit an Italian invention dating back to 1936. (In Italian.) *Gior. di Agr.* 59: 37. Jan. 30, 1949. 16 It1G
- 33546 PERLMAN, D. Effects of minor elements on the physiology of fungi. *Bot. Rev.* 15: 195-220. Ref. Mar. 1949. 450 B6527
- 33547 PINCUS, G., and THIMANN, K. V., eds. The hormones: physiology, chemistry and applications. New York, Academic Press, 1948. v. 1, 886 p. Ref. 444 P65H
- Partial contents: Plant growth hormones, by K. V. Thimann, p. 5-74. Other plant hormones, by K. V. Thimann, p. 75-119. Hormones in insects, by B. Scharrer, p. 121-158.
- 33548 POPOV, A. V. Individual tendencies of root withering in sugar beets. (In Russian.) *Selek. i Semen.* 15(6): 24-28. June 1948. 61.9 Se5
- Chiefly physiological factors.
- 33549 QUIDET, P. À propos du dépérissement du pommier. *Potasse* 23: 2-3. Jan. 1949. 57.8 P84
- 33550 RAMELLA, R. Una experiencia sobre longevidad de las semillas que podrá durar 360 años. *La Plata. U. Nac. Facul. de Agron. Rev.* 26: 277-279. 1948. 9 R32
- 33551 RAMONA, R. DE. Las fitohormonas y la caída de las frutas. *Cult. Mod.* 31: 417-418. Nov. 1948. 15 C89
- 33552 RANDHAWA, G. S., and THOMPSON, H. C. Effect of hormone sprays on yield of snap beans. *Amer. Soc. Hort. Sci. Proc.* 52: 448-452. Nov. 1948. 81 So12
- 33553 RAYNER, M. C. Mycorrhiza and the growth of farm crops. (Sum.) *Chem. & Indus.* 1949: 106. Feb. 12, 1949. 382 M31C
- 33554 REILLY, H. W. Las radiaciones cósmicas en la germinación vegetal. *Chacra* 19(220): 84-85. Feb. 1949. 9 C34
- 33555 REINHARD, H. Spurenelemente, ihre bedeutung für die pflanzenernährung. *Natur u. Tech.* 2: 373-379. Nov. 1, 1948. 474 N215
- 33556 RIEMSCHEIDER, R., and GERISCHER, W. Über den einfluss von halogenkohlenwasserstoffen auf heferassen und bakterien. I. *Z. f. Naturf.* 3b: 267-272. July/Aug. 1948. 474 Z3
- 33557 ROBBINS, W. J., and STEBBINS, M. An additional report on the growth of excised tomato roots. *Torrey Bot. Club. B.* 76: 136-140. Mar./Apr. 1949. 451 T63B
- 33558 ROBERTS, A. N., and BOLLER, C. A. Pollination requirements of English holly, *Ilex aquifolium*. *Amer. Soc. Hort. Sci. Proc.* 52: 501-509. Nov. 1948. 81 So12



- 33559 ROBERTS, W. O. Prevention of mineral deficiency by soaking seed in nutrient solution. *J. Agr. Sci. [London]* 38: 458-468. Ref. Oct. 1948. 10 J822
- 33560 ROHRER, E. Kupfervergiftung bei hefe. *Österr. Weinztg.* 4(7): 49. Feb. 12, 1949. 390.8 Os7
- 33561 ROUJANSKY, G. Sur quelques expérimentations de sels ferreux dans la lutte contre la chlorose calcique de pêcher. *Acad. d'Agr. de France. Compt. Rend.* 34: 981-983. Dec. 8/22, 1948. 14 P215Bc
- 33562 ROUSSEAU, J. Action de l'acide  $\alpha$  naphthalène acétique sur la croissance des pommes de terre. *Acad. d'Agr. de France. Compt. Rend.* 34: 1010-1014. Dec. 8/22, 1948. 14 P215Bc
- 33563 RYLSKA, T. Promieniowanie t. zw. mitogene-tyczne pączkujących drożdży i narośli rakowatej ziemniaka. La radiation dite mitogénétique de la levure bourgeonnante et de la tumeur cancéreuse de pomme de terre. *Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. C* 3: 355-417. Ref. Nov. 27, 1948. 512 L96Ac  
French summary.
- 33564 SAYRE, C. B., and VITTUM, M. T. Effect of some sodium salts and rate of seeding on the yield and color of beets. (Abs.) *Amer. Soc. Hort. Sci. Proc.* 52: 398. Nov. 1948. 81 So12
- 33565 SCARAMUZZI, G. Arrest of development of the root apparatus in tobacco plants in seedbeds through asphixiating soil conditions. (In Italian.) *Tabacco* 52: 322-328. Nov. 1948. 69.8 T115
- 33566 SCHROEDER, R. A. Nutrient-element balance and growth of leaf lettuce. *Amer. Soc. Hort. Sci. Proc.* 52: 464-466. Nov. 1948. 81 So12
- 33567 SÉCHET, J. Influence de la printanisation sur la teneur en glucides des semences de céréales. *Paris. Acad. des Sci. Compt. Rend.* 228: 334-336. Jan. 24, 1949. 505 P21
- 33568 SEKAWIN, M. Application of plant hormones in agriculture. (In Italian.) *B. dell'Agr.* 82: 2. Jan. 2, 1948. 16 B87
- 33569 SEXTON, W. A. The chemistry of plant growth regulators. *Mfg. Chem.* 20: 37-38. Jan. 1949. 396.8 M31
- 33570 SHEAR, G. M., and HORSFALL, F., JR. Color as an index of nitrogen content of leaves of York and Stayman apples. *Amer. Soc. Hort. Sci. Proc.* 52: 57-60. Nov. 1948. 81 So12
- 33571 SHMUELI, E. The water balance of some plants of the Dead Sea salines. *Palestine J. Bot., Jerusalem Ser.* 4: 117-143. Ref. Mar. 1948. 450 P17
- 33572 SHRIKHANDE, J. G. Assimilation of phosphorus during the decomposition of plant materials. *Cur. Sci.* 17: 364-365. Dec. 1948. 475 Sci23
- 33573 SIMMONS, S. A. How plants grow. *Your Gard. & Home* 3(2): 11, 22-23. Feb. 1949. 80 Y8
- 33574 SKOOG, F., and TSUI, C. Chemical control of growth and bud formation in tobacco stem segments and callus cultured in vitro. *Amer. J. Bot.* 782-787. Ref. Dec. 1948. 450 Am36
- 33575 SKRIPCHINSKIĬ, V. V. Chto takoe rostovye veshchestva i kakoe znachenie oni imeiut dlia sel'skogo khoziaistva [What are growth substances and of what importance are they in agriculture]. *Stavropol', Kraevoe Knizhnoe Izd-vo*, 1948. 29 p. (Biblioteka Kolkhoznika. Serifa Nauchno-populiarnoi Literatury) 463.36 Sk6
- 33576 SLANKIS, V. Verschiedene zuckerarten als kohlehydratquelle für isolierte wurzeln von *Pinus sylvestris*. *Physiol. Plant.* 1: 278-289. Ref. 1948. 450 P564
- 33577 STAFFORD, H. A. Studies on the growth and xylary development of *Phleum pratense* seedlings in darkness and in light. *Amer. J. Bot.* 35: 706-715. Ref. Dec. 1948. 450 Am36
- 33578 STEWART, W. S., SMOYER, K. M., and PUFFER, R. E. Progress report on effects of plant growth regulator sprays on avocados. *Calif. Avocado Soc. Ybk.* 33: 113-116. 1948. 81 C128
- 33579 STOLL, K. Über sporenenkeimprüfungen in geschlossenen pflanzenbeständen. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.)* 2: 118-120. July/Aug. 1948. 464.9 N11
- 33580 STOUT, P. R., and MEAGHER, W. R. Studies of the molybdenum nutrition of plants with radioactive molybdenum. *Science* 108: 471-473. Ref. Oct. 29, 1948. 470 Sci2
- 33581 STUART, N. W. Effect of storage at low temperature and high humidity on forcing performance of Easter lily bulbs. *Florists Exch.* 112(12): 18-19. Mar. 19, 1949. 80 F666  
Also in *South. Florist & Nurseryman* 61(50): 11-13, 101-102. Mar. 11, 1949. 80 So86
- 33582 STUIVENBERG, J. H. M. VAN. Fruit set under the influence of growth substances. (In Dutch.) *Tuinbouw* 4: 12-13. Jan. 1949. 80 T815
- 33583 SUN, F., and YANG, W. H. Studies on perennial cotton in Yunnan. IV. Heterosis, asexual propagation, and transplanting. (In Chinese.) *Chin. J. Cotton* 1(2): 67-72. Ref. Nov. 11, 1948. 72.8 C444  
English summary.
- 33584 SWANSON, W. H. On the relation between respiration and assimilation in cultures of *Saccharomyces cerevisiae*. *Stanford U. Abs. Diss.* 23: 71-73. 1948. 241.8 St2
- 33585 SZÁNTÓ, I. The cancer of the beech as a climatic illness. (In Hungarian.) *Erdészeti Kiseletlek* 48: 10-31. Ref. 1948. 99.9 Er22  
English summary.
- 33586 THOMPSON, R. C., and KOSAR, W. Vernalization and seed stem development in lettuce. *Amer. Soc. Hort. Sci. Proc.* 52: 441-442. Nov. 1948. 81 So12
- 33587 TOXOPEUS, H. J. Note on the effect of colchicine treatment of *Hibiscus sabdariffa* L. and *Hibiscus cannabinus* L. *Genetica* 24: 330-332. 1948. 442.8 G282
- 33588 TREGUBENKO, M. I. A. Germination of freshly-harvested alfalfa seeds. (In Russian.) *Selek. i Semen.* 15(6): 38-43. June 1948. 61.9 Se5
- 33589 TUKEY, H. B. Harnessing hormones; scientists have discovered a powerful tool for improving nature's order in growth of plants. *Capper's Farmer* 60(3): 12, 101. Mar. 1949. 6 M693
- 33590 VAN DERLINDEN, L. What plant foods do for your crops; a diagrammatic scheme to diagnose deficiency symptoms for many plants. *New Agr.* 31(5): 10-11. Feb. 1949. 66.8 Su32
- 33591 VEGIS, A. Einfluss tagesperiodisch wechselnder aufbewahrungstemperatur auf die streckungsbereitschaft der ruhenden winterknospen von *Stratiotes aloides*. *Physiol. Plant.* 1: 216-236. Ref. 1948. 450 P564
- 33592 VODERBERG, K. Zum nähr- und wirkstoffbedarf von *Coprinus lagopus*. *Z. f. Naturf.* 3b: 272-279. July/Aug. 1948. 474 Z3
- 33593 WAARD, J. DE, and FLORSCHÜTZ, P. A. On the interaction of 2,3,5-triiodobenzoic acid and indole-3-acetic acid in growth processes. *Nederland. Akad. van Wetensch. Proc.* 51: 1317-1321. Ref. 1948. 503 Am8P
- 33594 WALKER, R. D. The use of growth-regulating substances in crop production. *Agr. Prog.* 23: 50-53. 1948. 10 Ag86
- 33595 WARING, E. J., WILSON, R. D., and SHIRLOW, N. S. Whiptail of cauliflower; control by the use of ammonium molybdate and sodium molybdate. *Agr. Gaz. N. S. Wales* 59: 625-630. (Cont.) Dec. 1, 1948. 23 N472
- 33596 WEILER, F. Das leben der pflanze (von der wissenschaftlichen seite betrachtet). *Gärt.-Kurier* 4(1): 1-2. Jan. 1, 1949. 80 G1942
- 33597 WESTER, R. E., and WEIGEL, C. A. Effect of DDT insecticides on plant growth and yield of some bush lima bean varieties. *Amer. Soc. Hort. Sci. Proc.* 52: 453-460. Nov. 1948. 81 So12
- 33598 WHITE, D. J. B. The living tree-flowers and fruits. *Timber News* 57: 69-70. Feb. 1949. 99.81 T482
- 33599 WHITEHEAD, S. B. Synthetic plant hormones. *Fruit & Prod.* 3(7): 31-32. Nov. 1948. 80 F9427
- 33600 WILDEMAN, E. DE. Stérilité ou vieillissement et disparition des espèces végétales. *Brussels, Palais des Académies*, 1948. 2 v. (Académie royale de Belgique. Classe des sciences. Mémoires. Collection in-8. 2 sér. 22A and B) 463.38 W64S
- 33601 WILLIAMS, C. F., and VEERHOFF, O. Response of peach trees to boron. *Amer. Soc. Hort. Sci. Proc.* 52: 88-96. Ref. Nov. 1948. 81 So12
- 33602 WILSIE, C. P., and HOLLOWELL, E. A. Effect of time of cutting red clover on forage yields, seed setting and chemical composition. *Iowa. Agr. Expt. Sta. Res. B.* 357, p. 639-668. June 1948. 100 Io9



- 33603 YOGESWARI, L. Trace element nutrition of fungi. I. The effect of boron, zinc and manganese on *Fusarium* species. *Indian Acad. Sci. Proc. Sect. B* 28: 177-201. Ref. Dec. 1948. 513 In25B
- 33604 ZIELINSKI, Q. Ascorbic acid content of 33 peach varieties in relation to genetic and environmental factors. *Amer. Soc. Hort. Sci. Proc.* 52: 143-148. Nov. 1948. 81 So12

## BIOCHEMISTRY

- 33605 ANDRÉ, E., and KOGANE-CHARLES, M. Contribution à l'étude des composés sulfurés volatils des graines de crucifères. 3. *Ann. Agron.* 18: 547-558. Ref. Sept./Oct. 1948. 14 An75A
- 33606 BELVAL, H., LEGRAND, G., and LEWIS, C. Sur la spécificité des préparations de saccharase. *Paris. Acad. des Sci. Compt. Rend.* 228: 420-422. Jan. 31, 1949. 505 P21
- 33607 BERNARD, P., and SICÉ, J. Sur le principe aphrogène d'une Clématite (*Clematis flammula* L.). *Ann. Pharm. Franç.* 6: 437-439. Sept./Oct. 1948. 396.8 An7
- 33608 BERTRAND, G. Sur la recherche de traces d'éléments dans les organes des plantes et des animaux. *Analyt. Chim. Acta* 2: 770-781. Ref. Dec. 1948. 381 An1
- 33609 BASELGA, A., and WEIDMANN, H. Beitrag zur einer pharmakologischen betrachtung von *Avena sativa* L. (saathafer). *Schweiz. Arch. f. Tierheilk.* 90: 661-667. Nov. 1948. 41.8 Sch9
- 33610 BILLEN, D., and LICHSTEIN, H. C. Aspartic acid decarboxylation by *Rhizobium trifolii*. *J. Bact.* 57: 267-268. Feb. 1949. 448.3 J82
- 33611 BOITEAU, P., and others. Chemical constitution of asiaticoside. *Nature [London]* 163: 258. Ref. Feb. 12, 1949. 472 N21
- A. Buzas, E. Lederer, and J. Polonsky, joint authors. From *Centella asiatica*.
- 33612 BONDI, A., and MEYER, H. Lignins in young plants. *Biochem. J.* 43: 248-256. Ref. 1948. 382 B52
- 33613 BRIGGS, L. H., MANGAN, J. L., and RUSSELL, W. E. Alkaloids of New Zealand *Senecio* species. I. The alkaloid from *Senecio kirkii*. *Chem. Soc. J.* 1948: 1891-1892. Nov. 1948. 382 L84J
- 33614 BRIGGS, L. H., and MANGAN, J. L. *Sophora* alkaloids. V. The alkaloids of the seeds of a possibly new species from Anawhata, New Zealand. *Chem. Soc. J.* 1948: 1889-1891. Nov. 1948. 382 L84J
- 33615 BROWN, J. G., LILLELAND, O., and JACKSON, R. K. The determination of calcium and magnesium in leaves using flame methods and a quartz spectrophotometer. *Amer. Soc. Hort. Sci. Proc.* 52: 1-6. Nov. 1948. 81 So12
- 33616 CHARCONNET-HARDING, F., and JACQUOT, R. La synthèse du tryptophane par les plantules isolées. Comparaison avec le pouvoir de synthèse de *Sterigmatozystis nigra*. *Paris. Acad. des Sci. Compt. Rend.* 228: 498-500. Feb. 7, 1949. 505 P21
- 33617 CHOLLET, M. M. Les glucides du *Paulownia imperialis*, holoside et hétéroside. *Paris. Acad. des Sci. Compt. Rend.* 228: 425-427. Jan. 31, 1949. 505 P21
- 33618 CROOK, E. M., and HOLDEN, M. Some factors affecting the extraction of nitrogenous materials from leaves of various species. *Biochem. J.* 43: 181-185. 1948. 382 B52
- 33619 DESCHAMPS, I. On the mechanism of enzyme action. XXXIV. The influence of a pigment from *Fusarium solani* D2 purple (solanione) on the composition of fats formed in *Fusaria*. *Arch. Biochem.* 20: 457-464. Ref. Feb. 1949. 381 Ar2
- 33620 FUCHS, W. H., and BEILER, A. Die anwendung der biochemischen methode nach Lakon für die saatgutprüfung bei heisswasserbeiztem weizen. *Nachrichtenbl. f. den Deut. Pflanzenschutzdienst* (n. s.) 2: 127-129. July/Aug. 1948. 464.9 N11
- 33621 GOLDOVSKII, A. M. Outline of biochemical changes in organisms in the course of evolution. (In Russian.) *Zhur. Obshch. Biol.* 9: 181-201. Ref. May/June 1948. 442.8 Z6
- Fat formation in plants used as examples.
- 33622 GORDON, S. A., and SÁNCHEZ NIEVA, F. The biosynthesis of auxin in the vegetative pineapple. I-II. *Arch. Biochem.* 20: 356-366, 367-385. Ref. Feb. 1949. 381 Ar2
- I. Nature of the active auxin; II. The precursors of indoleacetic acid.
- 33623 HAXO, F. Studies on the carotenoid pigments of *Neurospora*. I. Composition of the pigment. *Arch. Biochem.* 20: 400-421. Ref. Feb. 1949. 381 Ar2
- 33624 HAY, R. E., JR. The concentration of certain nitrogen compounds in corn throughout the maturation period. *Urbana*, 1948. 5 p. 463.34 H32
- Abstract of thesis—University of Illinois.
- 33625 HIRST, E. L., HOUGH, L., and JONES, J. K. N. Composition of the gum of *Sterculia setigera*: occurrence of D-tagatose in nature. *Nature [London]* 163: 177. Jan. 29, 1949. 472 N21
- 33626 KING, H. Curare alkaloids. VIII. Examination of commercial curare, *Chondrodendron tomentosum* R and P and *Anomosperrum grandifolium* Eichl. *Chem. Soc. J.* 1948: 1945-1949. Nov. 1948. 382 L84J
- 33627 LATIES, G. G. The role of pyruvate in the aerobic respiration of barley roots. *Arch. Biochem.* 20: 284-299. Ref. Feb. 1949. 381 Ar2
- 33628 LE RICHE, F. J. H. An investigation on the synthesis of ascorbic acid in the guava (*Psidium guajava*). *So. African Chem. Inst. J.* (n. s.) 1: 35-38. June 1948. 385 So84
- 33629 LI, L. Y., and CHOU, C. Y. The ascorbic acid content of the flowers of some citrus trees. (In Chinese.) *Fukien Agr. J.* 9: 99-104. June 1948. 22.5 F95
- English summary.
- 33630 LWOFF, A., and SCHAEFFER, P. Remarques sur une analogie structurale entre streptomycine et chlorophylle. *Paris. Acad. des Sci. Compt. Rend.* 228: 511-513. Feb. 7, 1949. 505 P21
- Experiment with *Euglena gracilis*.
- 33631 LYTGOE, B., and TRIPPETT, S. Centelloside. *Nature [London]* 163: 259-260. Feb. 12, 1949. 472 N21
- From *Centella asiatica*.
- 33632 MARKHAM, R., and SMITH, J. D. Chromatography of nucleic acid derivatives. *Nature [London]* 163: 250-251. Feb. 12, 1949. 472 N21
- 33633 NEUBERG, C. A. Carbohydrates in yeast. (Abs.) *Canner* 107(20): 26. Nov. 13, 1948. 286.83 C16
- 33634 NYSTERAKIS, F., and BERDUCOU, J. Quantités relatives de chlorophylle contenues dans les divers tissus d'*Evonymus japonicus* et d'*Aucuba japonica*. *Soc. Bot. de France B.* 95: 216-218. May/June 1948. 451 F84B
- 33635 OVERCASH, J. P., and MCWHIRTER, L. The ascorbic acid content of nine strawberry varieties in Mississippi. *Amer. Soc. Hort. Sci. Proc.* 52: 251-256. Ref. Nov. 1948. 81 So12
- 33636 PARIS, R., and MOYSE-MIGNON, H. Étude préliminaire du *Fagara viridis* A. Chev. et du *Fagara parvifolia* A. Chev. *Ann. Pharm. Franç.* 6: 409-421. Ref. Sept./Oct. 1948. 396.8 An7
- A biochemical study.
- 33637 POLITIS, J. Sur la distribution de l'acide chlorogénique dans la famille des Composées et dans les organes de ces plantes. *Paris. Acad. des Sci. Compt. Rend.* 228: 265-266. Jan. 17, 1949. 505 P21
- 33638 RIGNEY, J. A., and BLASER, R. E. Sampling Alyce clover for chemical analyses. *Biometrics* 4: 234-239. Dec. 1948. 442.8 B5224
- 33639 RINCK, É., and BROUARDEL, J. Sur les prétendues transmutations d'éléments constatées chez les végétaux: l'iode chez *Laminaria flexicaulis*. *Paris. Acad. des Sci. Compt. Rend.* 228: 263-265. Jan. 17, 1949. 505 P21
- 33640 RUBIN, B. A., and ARTSIKHOVSKAIA, E. *Biokhimicheskaiā kharakteristika ustoičivosti rastenii k mikroorganizmam* [Biochemical analysis of plant resistance to microorganisms]. *Moskva, Akademiiā Nauk SSSR*, 1948. 86 p. 464.41 R82
- 33641 SANNIE, C., and SOSA, A. Sur un hétéroside de *Citrus trifoliata* L. *Fruits d'Outre Mer* 4: 4-8. Jan. 1949. 80 F9492
- 33642 SANTOS RUIZ, A., VILLAR PALASI, V., and ANDRÉS IRIGOYEN, P. Estudios sobre bioquímica de protidos. III. Aminoácidos del grupo de la leucina e hidroxiaminoácidos de la semilla del "*Lathyrus sativus*." *Soc. Españ. de Fís. y Quím. An. Ser. B. Quím.* 44: 775-788. Ref. June 1948. 385 So16
- 33643 SCHADE, A. L., and others. Studies on the respiration of the white potato. III. Changes in the terminal oxidase pattern of potato tissue associated with time of suspension in water. *Arch. Biochem.* 20: 211-219. Feb. 1949. 381 Ar2
- H. Levy, L. Bergmann, and S. Harris, joint authors.



33644 SCHOEMAN, D. J., and HAWKE, F. The fruit-coat fat of *Myrica cordifolia*-cape berry wax. I. Physical and chemical constants and fatty acid composition. So. African Chem. Inst. J. (n. s.) 1: 5-13. Ref. June 1948. 385 So84

33645 SERRANO, M. Contribución al estudio de la formación de nicotina en el género *Nicotiana*. Soc. Españ. de Fís. y Quím. An. Ser. B. Quím. 44: 763-770. June 1948. 385 So16  
English summary.

33646 SHULL, G. M., THOMA, R. W., and PETERSON, W. H. Amino acid and unsaturated fatty acid requirements of *Clostridium sporogenes*. Arch. Biochem. 20: 227-241. Feb. 1949. 381 Ar2

33647 SOUZA, A. H. DE. Hemagglutinins in legumes. (In Portuguese.) Chacaras e Quintais 78: 720-722. Ref. Dec. 15, 1948. 9.2 C34

33648 TAPPI, G., and KARRER, P. Über die carotinoide aus den staubbeuteln von *Lilium candidum*. Cis-antheraxanthin. Helvet. Chim. Acta 32: 50-55. Feb. 1, 1949. 385 H36

33649 ULRICH, R. Extraction et analyse des gaz internes des fruits charnus. Paris. Acad. des Sci. Compt. Rend. 228: 500-502. Feb. 7, 1949. 505 P21

33650 VERGHE E., J., GULATI, K. C., and JOSHI, M. L. Production of thymol from ajowan [*Carum copticum*] seeds. Cur. Sci. 18: 17. Jan. 1949. 475 Sci23

33651 VILLAR PALASÍ, V., SANTOS RUIZ, A., and SANZ DOMÍNGUEZ, F. Estudios sobre bioquímica de protidos. II. Aminoácidos aromáticos y sulfurados de la semilla de "*Lathyrus sativus*". Soc. Españ. de Fís. y Quím. An. Ser. B. Quím. 44: 771-774. June 1948. 385 So16  
English summary.

33652 WAGER, H. G. Experimental evidence that the stem-end blackening pigment of potatoes is a compound of iron. Gt. Brit. Sci. and Indus. Res. Food Invest. Mem. 578: 318-320. 1948? 389.9 G792M  
Also in Biochem. J. 43: 318-320. 1948. 382 B52

33653 WALLACE, A., TOTH, S. J., and BEAR, F. E. Cation and anion relationships in plants with special reference to seasonal variation in the mineral content of alfalfa. Agron. J. 41: 66-71. Ref. Feb. 1949. 4 Am34P

33654 WILDMAN, S. G., and BONNER, J. Observations on the chemical nature and formation of auxin in the Avena coleoptile. Amer. J. Bot. 35: 740-746. Ref. Dec. 1948. 450 Am36

33655 WOKES, F., and MELVILLE, R. Vitamin C in the walnut (*Juglans regia*). Biochem. J. 43: 585-592. Ref. 1948. 382 B52

33656 YOUNGKEN, H. W. Observations on the bark of *Remijia pedunculata*. Amer. Pharm. Assoc. J. Sci. Ed. 38: 27-30. Jan. 1949. 396.9 Am33J

## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

### General

33657 ALBERTA VARIETAL ZONATION COMMITTEE. Field crop varieties for Alberta. 1948. 6 p. 64.9 AL1

33658 ARENTOFT, M. Crop rotation problems in seed growing. (In Danish.) Tidsskr. for Frøavl 37: 98-102. Jan. 1949. 61.8 T43

33659 BAIRD, G. Keep the soil fertile. Utah Farmer 68(11): 10. Jan. 22, 1949. 6 D45  
Crop rotation.

33660 BEARD, D. The importance of adapted crop varieties. Grain & Feed Rev. 38(7): 14. Mar. 1949. 280.28 G78

Grain and forage crops.

33661 BELONozHKO, I. I. Problems of planning and of methods in studying grassland crop rotations. (In Russian.) Selek. i Semen. 15(8): 52-61. Aug. 1948. 61.9 Se5

33662 BRANDL, M. Welche erfahrungen lehrte uns das pflanzenbaujahr 1947/48. Landwirtschaft 1948: 345-346. Dec. 20, 1948. 19 L235

33663 CHRISTENSEN, N. A. Experiments with seed crops. (In Danish.) Tidsskr. for Frøavl 37: 107-114. Feb. 1949. 61.8 T43

33664 COLLIER, J. W., TROGDON, W. O., and JOHNSTON, J. R. Crop variety tests at the Blackland Experiment Station. Tex. Agr. Expt. Sta. Prog. Rpt. 1147, 4 p. Jan. 27, 1949. 100 T31P

33665 COOKE, H. L., and MOORE, R. P. Measured [field] crop performance, 1948. N. C. Agr. Expt. Sta. B. 364, 49 p. Jan. 1949. 100 N81

33666 FERGUS, E. N., and HAMMONDS, C. Field crops management. Rev. Chicago, Lippincott, 1949. 600 p. Ref. 64 F38

33667 ISOLANI, C. T. L'agronomo condotto opera già in Gran Bretagna. Sardegna Agr. 26(42/43): 2. Nov. 21/28, 1948. 16 Sa7

33668 JOHNSON, I. J., and ROBINSON, J. L. Crop varieties recommended for Iowa. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 3(8): 11. Feb. 1949. 275.28 Io94  
Field crops.

33669 MONTHEY, L. G. Better farm crops ahead; many of the new crops of yesterday are already being replaced, as our plant breeders develop new crop varieties. Better Farming Methods 21(3): 15, 55, 72-73. Mar. 1949. 58.8 B46

33670 MOROCCO. SERVICE DE LA RECHERCHE AGRONOMIQUE ET DE L'EXPERIMENTATION AGRICOLE. Les cahiers de la recherche agronomique. 1. Rabat, 1948. 129 p. 14 M82

33671 MOSSEI, H. V. Des buts et méthodes de la recherche agronomique. Inst. d'Égypte. B. 29: 383-396. 1948. 515 Eg9

33672 NETHERLANDS. GOVERNMENT COMMITTEE FOR THE COMPILATION OF THE LIST OF VARIETIES OF FIELD CROPS. Descriptive list of varieties of field crops, 23, 1948. Wageningen, 1948. 45 p. 64.9 N38

33673 ORTIZ G., G. Estudio comparativo de tres cultivos de clima frío: maíz, papas, trigo. Suelo Tico 1: 257-261. Oct. 1948. 8 Su2

33674 PATERSON, R. This year—next year; the effect of the ley on following grain crops. Farmers Weekly [London] 30(7): 42-43. Feb. 18, 1949. 10 F2226

33675 PETERSSON, G. Växtodling på sandjord [Crop culture on sandy soil]. Stockholm, 1948. 150 p. 64 P44

33676 RIDRUEJO, L. Alternativas de secano. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 24-48 H, 11 p. Dec. 1948. 15 H68

33677 SMITH, W. E. General variety tests. Alberta. U. Dept. Plant Sci. Seasonal Notes 34: 10-12. Jan. 8, 1949. 64.9 AL12

33678 STAROV, M. In regard to a system of State variety testing. (In Russian.) Selek. i Semen. 15(8): 49-51. Aug. 1948. 61.9 Se5  
Field crops.

33679 STRIFFLING, M., and TELLIEZ, J. Le temps et l'agriculture dans la région lyonnaise pendant l'année 1947. Études Rhodaniennes 23: 205-213. 1948. 473 Et8

33680 URVALEK, J. The significance of pastures in utilisation of soil. (In Czech.) Českoslov. Akad. Zeměděl. Vest. 22: 500-508. Dec. 15, 1948. 19.5 C332  
English and Russian summaries.

Chiefly on crop rotations as a measure to improve fertility.

33681 WALTON, L. Lespedeza following oats succeeds in Black Belt. Miss. Farm Res. [Miss. Sta.] 11(12): 4. Dec. 1948. 100 M69Mi

33682 WESTERMANN, W. Der gemengebau mit getreide, leguminosen und hackfrüchten. Lüneburg, Kinau, 1948. 40 p. (Kurzschriften für Landwirtschaft, Gartenbau und Siedlung, 15) 33.27 W52

33683 WORZELLA, W. W., and others. Progress report of research in crops and soils at the South Dakota Experiment Station. S. Dak. Agr. Expt. Sta. C. 72, 12 p. June 1948. 100 So82

A. N. Hume, L. F. Puhr, J. E. Grafius, C. J. Franzke, D. B. Shank, V. A. Dirks, J. G. Ross, M. W. Adams, and R. A. Cline, joint authors.

Chiefly field crop variety tests.

33684 ZAKHARCHENKO, S. A. The principal base of the Vsesojuznyĭ Institut Rastenievodstva. (In Russian.) Agrobiologiya 1948(3): 94-101. May/June 1948. 20 Ag822

Field crop research carried out at the Kubanskaja Opytnaja Stantsiya.



## Cereals

- 33685 ALCOVER, M. Planting time for wheat. (In Portuguese.) Soc. Rural Bras. Rev. 29: 28-29. Jan. 1949. 9.2 B733
- 33686 AMERICAN SEED TRADE ASSOCIATION. Growth and development of the corn plant. Chicago, 1948? 60 p. 59.22 Am33
- 33687 ANDRES, J. M. Híbridos comerciales de maíz; resultados de las experiencias realizadas durante los años agrícolas 1941-42 a 1947-48. Rev. Argentina de Agron. 15: 236-244. Dec. 1948. 9 R327  
English summary.
- 33688 ATKINS, R. E., and MURPHY, H. C. Evaluation of yield potentialities of oat crosses from bulk hybrid tests. Agron. J. 41: 41-45. Ref. Jan. 1949. 4 Am34P
- 33689 BERLIAND, S. S. Resources of wheat varieties of U. S. S. R. and their world importance. (In Russian.) Agrobiologičeskii 1948(3): 120-134. May/June 1948. 20 Ag822
- 33690 BERNARD, P. Avant les semailles d'avoine. Monit. Agr. 2(58): 2. Feb. 20, 1949. 14 M744
- 33691 BERNARD, P. L'hiver et les blés en terre. Monit. Agr. 2(54): 2. Jan. 23, 1949. 14 M744
- 33692 CARDINALI, B., and TRUZZI. Production and varieties of grain [in Italy]. (In Italian.) Humus 4(11): 20-22. Nov. 1948. 16 H88
- 33693 CHEVALIER, A., and ANGLADETTE, A. Le riz. Paris, Presses Universitaires de France, 1948. 126 p. (Que Sais-je? 305) 59.24 C42
- 33694 CHIAPPELLI, R. The problem of rice for seed. (In Italian.) Riscicoltura 37: 6-8. Jan. 1949. 59.8 G43
- 33695 CLAPP, A. L., and TATUM, L. A. Kansas corn tests, 1948. Kans. Agr. Expt. Sta. B. 340, 46 p. Feb. 1949. 100 K13S
- 33696 COLLINS, E. R. 1948 corn records exceed those of 1947. Farmers Fed. News 29(7): 20-21. Mar. 1949. 280.28 F225
- 33697 COLVIN, W. S. 50 bushels per acre of wheat predicted in Midwest. Com. Fert. 78(3): 20-21, 46-48. Mar. 1949. 57.8 C73
- 33698 COTTE, A. Essais de sorghos à l'École Nationale d'agriculture de Montpellier. Prog. Agr. et Vitic. 1949: 34-44. (Cont.) Jan. 16/23, 1949. 14 P94
- 33699 CROSIER, W. F. Planting value of dehulled seed oats. Seed World 64(4): 20, 22. Feb. 21, 1949. 61.8 Se52
- 33700 DAVE, B. B. Inheritance of characters in Central Provinces' rices. Nagpur Agr. Col. Mag. 23: 20-50. June/Sept. 1948. 107.5 N132
- 33701 DELUCQ, Le sorgho sucrier. Terre d'Oc 30: 502-509. Dec. 1948. 14 Ar5
- 33702 ELLE, T. Grain culture. (In Norwegian.) Norsk Landbr. 15: 82-85. Mar. 4, 1949. 11 N8122
- 33703 ENKEN, V. B. Method of selecting for frost resistance by planting on beds raised from the ground. (In Russian.) Selek. i Semen. 15(6): 17-20. June 1948. 61.9 Se5  
Experiments with barley in U. S. S. R.
- 33704 ERWIN, A. T. The origin and history of pop corn, Zea mays L. var. indurata (Sturt.) Bailey mut. everta (Sturt.) Erwin. Agron. J. 41: 53-56. Ref. Feb. 1949. 4 Am34P
- 33705 FEITSARENKO, A. I. Intervarietal crossing of self-pollinators. (In Russian.) Selek. i Semen. 15(6): 10-12. June 1948. 61.9 Se5  
Wheat research at the L'govskaja Selekcijonnaja Stan-  
sija.
- 33706 FENAROLI, L. American hybrid corn cultivated in Italy during 1948. (In Italian.) Voce dei Campi 4(4): 1. Feb. 10, 1949. 16 V852
- 33707 FIORITO, G. Grain crops; elements and factors determining an increased production. (In Italian.) Mezzogiorno Agr. 5(2): 3. Jan. 9, 1949. 16 M57
- 33708 FLANDRIN, L'origine généalogique de nos blés. Acad. d'Agr. de France. Compt. Rend. 34: 977-981. Dec. 8/22, 1948. 14 P215Bc
- 33709 FOMICHEV, I. M. Millet in Kalinin Region. (In Russian.) Selek. i Semen. 15(6): 73-74. June 1948. 61.9 Se5
- 33710 FRANCHET, A. Qu'est-ce que le blé d'Égypte? Prog. Agr. et Vitic. 1948: 353-360. Dec. 26, 1948. 14 P94
- 33711 FREY, K. J. What's new in oat varieties for Michigan. Mich. Farmer 211: 179. Mar. 5, 1949. 6 M58
- 33712 GARST, R. Early planting, soil fertility are keys to bigger corn yields. Farmer-Stockman 82(2): 5, 50. Feb. 1949. 6 Ok45
- 33713 GRAFIUS, J. E. Plains barley. S. Dak. Agr. Expt. Sta. C. 74, 4 p. Apr. 1948. 100 So82
- 33714 GRILLOT, G. L'état actuel de l'amélioration du blé tendre au Maroc. B. Econ. et Social du Maroc 10: 16-18. Apr. 1948. 280.8 So18
- 33715 HUBBARD, V. C., and HARPER, H. J. Effect of clipping small grains on composition and yield of forage and grain. Agron. J. 41: 85-92. Feb. 1949. 4 Am34P
- 33716 HULL, F. H. Hybrid corn adding yields. Fla. Grower 57(3): 21. Mar. 1949. 80 F6622
- 33717 HUTCHESON, T. B. The 100-bushel corn club. Commonwealth 16(2): 7-9. Feb. 1949. 280.8 C732
- 33718 JETER, F. H. Five steps to big corn yields. South. Planter 110(2): 14, 21. Feb. 1949. 6 So89
- 33719 KARPEN, R. E. The rise of combine sorghums. Crops & Soils 1(5): 14-16. Feb. 1949. 6 W55  
Breeding varieties adapted to harvesting by the combine harvester.
- 33720 KRASNJUK, A. A. New winter rye variety—Volzhanka. (In Russian.) Selek. i Semen. 15(6): 55-59. June 1948. 61.9 Se5
- 33721 KUZNETSOV, N. N. Effect of various degrees of frost resistance on the planting qualities of seeds. (In Russian.) Sovet. Agron. 6(10): 52-57. Oct. 1948. 20 So84  
Study in Siberian wheat culture.
- 33722 LAGARDE, J. Blés alternatifs et blés de printemps. Acclimatation 76: 37. Feb. 12, 1949. 14 Ac2
- 33723 LAVALLARD, M. L. The Arkansas Station grows 100-bushel corn. Prog. Farmer, Miss.-Ark.-La. Ed. 64(2): 110. Feb. 1949. 6 So81
- 33724 LEBEDEFF, G. A., and BROOKS, O. L. Performance tests of corn hybrids and varieties, 1943-1948. Ga. Agr. Expt. Sta. C. 158, 16 p. Jan. 1949. 100 G29S  
Georgia Mountain Experiment Station cooperating.
- 33725 LEJEUNE, A. J. Up-to-date information on Montcalm barley. N. Dak. Agr. Expt. Sta. Bimo. B. 11(3): 77-78. Jan./Feb. 1949. 100 N813B
- 33726 LIUBIMOVA, V. F. Local varieties of spring wheat in Kirgizia. (In Russian.) Selek. i Semen. 15(8): 19-27. Aug. 1948. 61.9 Se5
- 33727 LUNGO, A. DEL. The greatest agricultural innovation of the postwar period: hybrid corn seeds. (In Italian.) Mezzogiorno Agr. 5(5): 3. Jan. 30, 1949. 16 M57
- 33728 MCCALLA, A. G. What about Red Bobs wheat? Alberta. U. Dept. Plant Sci. Seasonal Notes 34: 1-2. Jan. 8, 1949. 64.9 AL12
- 33729 MCMURRAY, S. F. Variety performance trials of corn, oats, barley, wheat, soybeans, and cotton. Tenn. Agr. Expt. Sta. B. 208, 13 p. Jan. 1949. 100 T22S
- 33730 MCNEW, E. Hybrid corn marches on. Purdue Agr. 40(5): 6, 16. Feb. 1949. 6 P97
- 33731 MARESCALCHI, A. Wheat can yield more. (In Italian.) Ital. Vinic. ed Agr. 38: 234-235. Oct. 31, 1948. 95.8 It1
- 33732 MAUMENÉ, A. J'ai assisté à la moisson du riz en Camargue. Vie à la Campagne 38: 53-55. Feb. 1949. 80 V67
- 33733 MERLI, V. Italian corn culture and the new hybridization technique. (In Italian.) Rinascita Agr. 3(10): 1. Mar. 15, 1948. 281.8 R47
- 33734 MIKHALOVSKII, A. G. Effect of plant arrangement in rows on the development and yields of cereals. (In Russian.) Sovet. Agron. 6(7): 72-76. July 1948. 20 So84
- 33735 MORO, M. Observations on the transplanting of rice. (In Italian.) Rinascita Agr. 3(13): 1. May 1, 1948. 281.8 R47
- 33736 MOTRENKO, M. G. Four year experiment in buckwheat culture in Rostov Region. (In Russian.) Selek. i Semen. 15(8): 62-63. Aug. 1948. 61.9 Se5



- 33737 NEVANO, G. Cultivation of oats compared with wheat. (In Italian.) *Italia Agr.* 86: 36-42. Jan. 1949. 16 It1
- 33738 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. The growing of oats. North. Ireland. Min. Agr. Leaflet 120, 12 p. Dec. 1948. 10 N81
- 33739 OCAMPO MOSCOSO, E. El imperio de los Incas dentro de la civilización del maíz. *Agros [Cochabamba]* 1: 46-47. Oct. 1948. 9.4 Ag86
- 33740 OGNEV, I. M. Farm laboratories obtained high yields. (In Russian.) *Selek. i Semen.* 15(8): 64-65. Aug. 1948. 61.9 Se5  
Experiments with millet on the Voroshilov collective farm in Bobruisk Region.
- 33741 ORSI, S., and PINI, P. L. College experiments with mountain wheat in Tuscany. (In Italian.) *Agr. Tosc.* 3: 373-377. Dec. 1948. 16 Ag827
- 33742 PARKER, J. H. Barley can be a profitable crop. *Dak. Farmer* 69(3): 14. Feb. 5, 1949. 6 D14
- 33743 PENDLETON, J. W., and others. 1948 Illinois tests of corn hybrids in widest use. III. *Agr. Expt. Sta. B.* 531, p. 59-91. Feb. 1949. 100 IL6S  
G. H. Dungan, J. H. Bigger, A. L. Lang, B. Koehler, R. W. Jugenheimer, and G. E. McKibben, joint authors.
- 33744 PIACCO, R. Comparative studies of the principal varieties of rice grown in Italy. (In Italian.) *Risicoltura* 36: 251-253. (Cont.) Nov. 1948. 59.8 G43
- 33745 PIACCO, R., and LUCOV, A. Rice culture in Bulgaria. (In Italian.) *Risicoltura* 36: 224-228. (Cont.) Oct. 1948. 59.8 G43
- 33746 POLIACHENKO, V. Millet harvesting without losses. (In Russian.) *Tekhsovety MTS* 9(22): 5-8. 1948. 58.8 T233
- 33747 PORTNOV, M. Combine harvesting of lodged and long straw grain. (In Russian.) *Tekhsovety* 9(22): 1-4. 1948. 58.8 T233
- 33748 PRICE, C. W., JR. "It ain't pop corn"—hybrid. *Prog. Farmer, Miss.-Ark.-La.* Ed. 64(2): 14, 107. Feb. 1949. 6 So81
- 33749 RAMÍREZ, A., and MONTAÑO, J. Posibilidades del cultivo del trigo en el altiplano. *Agros [Cochabamba]* 1: 67-73. Oct. 1948. 9.4 Ag86
- 33750 RAMONA, R. DE. Genética cerealista. *Cult. Mod.* 31: 405-407. Nov. 1948. 15 C89
- 33751 RIURIKOV, N. A. "Vegetative hybrid No. 1" of spring wheat. (In Russian.) *Selek. i Semen.* 15(7): 36-39. July 1948. 61.9 Se5
- 33752 RUSAKOV, L. F. High yield wheat varieties at the Stavropol'skaya Seleksionnaya Stanfisa. (In Russian.) *Selek. i Semen.* 15(7): 13-14. July 1948. 61.9 Se5
- 33753 SAMARIN, N. G. How Tselest 1274 form of naked barley originated. (In Russian.) *Selek. i Semen.* 15(6): 72. June 1948. 61.9 Se5
- 33754 SAMOKHINA, Z. F. Growth and development of spring wheat in relation to types of weather. (In Russian.) *Selek. i Semen.* 15(8): 12-19. Aug. 1948. 61.9 Se5
- 33755 SAVCHENKO-BEL'SKIĬ, A. To carry out efficiently the harvesting of grain in 1948. (In Russian.) *Sovet. Agron.* 6(7): 14-22. July 1948. 20 So84
- 33756 SCHAAFFHAUSEN, R. V. Adlay. (In Portuguese.) *Colheitas e Mercados* 4(7/8): 20-22. July/Aug. 1948. 255.3 Sa652
- 33757 SHUBIN, I. V. Local varieties of winter wheat in Tashauzsk Region. (In Russian.) *Selek. i Semen.* 15(7): 61-64. July 1948. 61.9 Se5
- 33758 SHULKUM, E., and others. 1948 official Virginia varietal tests of corn hybrids, barley, oats, and wheat. *Va. Agr. Expt. Sta. B.* 420, 16 p. Jan. 1949. 100 V81S  
C. F. Genter, C. W. Roane, T. J. Smith, and T. M. Starling, joint authors.
- 33759 SHULYNDIN, A. F. Natural interspecific hybrids of *Melanocephalus* 69. (In Russian.) *Selek. i Semen.* 15(7): 39-41. July 1948. 61.9 Se5  
Wheat.
- 33760 SKUTIL, J. Origin and development of our grain. (In Czech.) *Ceskoslov. Akad. Zemedel. Vest.* 22: 490-500. Dec. 15, 1948. 19.5 C332  
Russian and French summaries.
- 33761 STADLER, H. Erfolgreicher wintergetreideanbau im gebirge. *Salzburger Bauer* 4(5): 5-6; (6): 5. Feb. 3-10, 1949. 19 Sa3
- 33762 STAHL, C. Danish seed and seed cereals. *Danish Foreign Off. J.* 1948(4): 16-20. Oct./Dec. 1948. 286.8 D22
- 33763 STANTON, T. R., and MURPHY, H. C. New oat varieties make good in '48. *Crops & Soils* 1(5): 5-9. Feb. 1949. 6 W55
- 33764 STOA, T. E., and WALDRON, L. R. Wheat varieties—which to grow. *N. Dak. Agr. Expt. Sta. Bimo.* B. 11(3): 63-72. Jan./Feb. 1949. 100 N813B
- 33765 STOIUSHKIN, I. A., and SHTOIKO, D. A. Practices which resulted in the production of high yields in Kursk Region. (In Russian.) *Sovet. Agron.* 6(10): 81-86. Oct. 1948. 20 So84  
Cereals.
- 33766 SWORD, J. Milling values of oat varieties. I. *Scot. Agr.* 28: 137-148. Winter 1948/49. 10 Sco82So
- 33767 TEIXEIRA, E. F. Rotation in rice culture. (In Portuguese.) *Lav. Arroz.* 2(23): 10, 12. Nov. 1948. 59.8 L39
- 33768 THIBAU, C. E. Notes on wheat culture in Minas Gerais. (In Portuguese.) *Rev. Ceres* 7: 403-409. June/Sept. 1948. 9.2 C332
- 33769 TREWARTHA, G. T., and YANG, S. J. Notes on rice growing in China. *Assoc. Amer. Geog. Ann.* 38: 277-281. Dec. 1948. 500 As73
- 33770 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Improved methods boost corn yields, by B. A. Krantz, E. R. Collins, C. Parker, and others. Washington, 1949. 4 p. 1.914 R2R11
- 33771 VAILLANT, M. Milieu culturel et classification des variétés de riz des Guyanes Française et Hollandaise. *Rev. Internatl. de Bot. Appl. et d'Agr. Trop.* 28: 520-529. Nov./Dec. 1948. 26 R323
- 33772 VIANNA E SILVA, M. Rice in the language of the natives. (In Portuguese.) *Lav. Arroz.* 2(22): 13-15. Oct. 1948. 59.8 L39
- 33773 VIANNA, C. Les blés en Anjou et à Avrillé en 1947-1948. *Agro d'Angers* 27(254): 6-9. Jan. 1949. 105.3 An4
- 33774 VILLAMIZAR A., F. Clasificación del trigo para semillas. *Agr. Trop. Sup. Agron.* 5: 11-13. Jan. 1949. 26 Ag8
- 33775 WISER, W. J. 1948 performance tests. *Ark. Agr. Expt. Sta. Rpt. Ser.* 12, 22 p. Jan. 1949. 100 Ar42R  
Corn.
- 33776 YEHIELI, Y. On the C. C. C. and Florence varieties. (In Hebrew.) *Hassadeh* 29: 58-60. Dec. 1948. 26 H27  
Wheat.
- 33777 ZUBER, M. S., and ASLIN, W. E. 1948 yield trials with corn hybrids in Missouri. *Mo. Agr. Col. Ext. Manual* 48, 19 p. Jan. 1949. 275.29 M69Ma

## Fiber Crops

- 33778 ANGLADETTE, A. Note sur la culture du cotonnier en Indochine. *Coton et Fibres Trop.* 3: 73-111. Oct./Dec. 1948. 73.8 C82
- 33779 BROTO, A. DE. El cultivo del algodón en Castilla. *Crisantemos? No, algodóneros.* *Ceres [Valladolid]* 14: 15, 17. Jan. 1949. 15 C33
- 33780 COWLEY, W. R. Weslaco cotton variety test, 1944-48. *Tex. Agr. Expt. Sta. Prpg. Rpt.* 1146, 2 p. Jan. 24, 1949. 100 T31P
- 33781 FRÖIER, K. A survey of modern plant breeding work with monoecious hemp. (In Swedish.) *Lin, Dansk-Svensk Hörtidsskr.* 2: 163-169. Ref. Oct. 1948. 73.18 L63  
English summary, p. 181.
- 33782 GODOY, E. F., and MARCIOTTE, C. V. El cultivo del lino en Entre Ríos y las nuevas variedades obtenidas en la Estación Experimental de Pergamino. *IDIA; Inform. de Invest. Agr.* 2(13): 14-15. Jan. 1949. 9 Id3
- 33783 HARDY, E. Australian jute substitute plant; Posidonia fibre from marine beds. *Jute & Canvas Rev.* 20(245): 5, 9. Feb. 1949. 73.38 J982
- 33784 HUA, H. N. Discussion on the problems of cotton breeding. I. Basic concept. (In Chinese.) *Chin. J. Cotton* 1(2): 1-3. Nov. 11, 1948. 72.8 C444



- 33785 KIRBY, R. H. Le jute et ses succédanés; possibilités de production dans l'empire britannique. *Coton et Fibres Trop.* 3: 113-122. Ref. Oct./Dec. 1948. 73.8 C82
- 33786 LAUDE, H. H. For success with flax. *Kans. Farmer* 86(3): 7. Feb. 5, 1949. 6 K13
- 33787 MAKAROV, V. V. L'novodstvo [Flax culture]. Moskva, Sel'khozgiz, 1948. 191 p. 73.1 M28
- 33788 NODDER, C. R. Jute quality: effect of district. *Jute B.* 11: 284-286. Nov. 1948. 73.38 In2
- 33789 O'KELLY, J. F., and DICK, J. B. Results of 1948 cotton variety tests reported. *Miss. Farm Res. [Miss. Sta.]* 12(2): 2, 3. Feb. 1949. 100 M69M1
- 33790 PEARSON, E. O. Quelques notes sur la culture du cotonnier en A. E. F. *Coton et Fibres Trop.* 3: 61-71. Oct./Dec. 1948. 73.8 C82
- 33791 RAVAGLIOLI, T. Cultivation of the common cane in Rimine. (In Italian.) *Agr. Romagna* 1949(2): 1. Jan. 20, 1949. 16 Ag828
- 33792 REINGARDT, V. E. Khlopkovodstvo v novykh raionakh [Cotton growing in the new regions]. Moskva, Sel'khozgiz, 1948. 219 p. (Uchebniki i Uchebnye Posobiya dlia Podgotovki Sel'skokhoziaistvennykh Kadrov) 72 R272
- Southern regions of R.S.F.S.R. and Ukraine.
- 33793 ROCASOLANO, C. El ramio y su cultivo. *Cult. Mod.* 31: 456. Dec. 1948. 15 C89
- 33794 SAMPAIO, R. S. Agave fibers in Brazil. I. (In Portuguese.) *Soc. Rural Bras. Rev.* 29: 34-39. Jan. 1949. 9.2 B733
- 33795 SOUZA, J. A. DE. Instructions for cotton culture. (In Portuguese.) *Rev. Ceres* 7: 417-423. June/Sept. 1948. 9.2 C332
- 33796 TANG, Y. S., and DIAU, G. J. Purity of the extended cotton varieties in 1947. (In Chinese.) *Chin. J. Cotton* 1(2): 109-110. Nov. 11, 1948. 72.8 C444
- 33797 VERA BRAVO, M. Relaciones entre algunos factores de la calidad industrial del lino oleaginoso e influencia que sobre ellos ejercen el año, suelo y variedad. *La Plata. U. Nac. Facul. de Agron. Rev.* 26: 79-139. Ref. 1948. 9 R32
- 33798 WANG, P. S. A note on two new strains of Stoneville No. 4. (In Chinese.) *Chin. J. Cotton* 1(2): 107-108. Nov. 11, 1948. 72.8 C444
- English summary.
- 33799 WOODLE, H. A. Try South Carolina's 32-point program. *Prog. Farmer, Car.-Va. Ed.* 64(3): 19, 136. Mar. 1949. 6 P945
- Improvements in cotton production.
- Forage Crops and Grasses**
- 33800 AGOR, N. Don't overlook Ladino. *G. L. F. Week. Serv. Sched.* 13(36): 1, 4. Mar. 7, 1949. 280.28 G113W
- 33801 ALABOUVETTE, L. Luzerne arborescente et blé d'Egypte. *Prog. Agr. et Vitic.* 1949: 29-30. Jan. 16/23, 1949. 14 P94
- 33802 ALBAUGH, R. Irrigated pastures give high return. *West. Livestock J.* 27(12): 100, 102, 106. Jan. 15, 1949. 6 F2278
- 33803 ANDERSON, E. Pastos naturales versus pastos cultivados. *Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 15: 25-26. Oct. 1948. 9.8 P4352
- 33804 ANDRUKOVICH, V. I. Kul'tura timofeevki lugo-voi v usloviiakh nagornykh raionov vostochnoĭ Gruzii [Timothy growing in the mountainous regions of eastern Georgia]. Tbilisi, Gosizdat Gruzinskoi SSR, 1948. 49 p. 60.1 An2
- 33805 ARAUJO E SILVA, O. B. DE. Legumes for pastures. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 12: 165-166. July/Sept. 1948. 9.2 R325
- 33806 AYYAR, K. V. S., and NARAYANASWAMY, K. "Varagu," *Paspalum scrobiculatum* (Linn.). *Cur. Sci.* 17: 367. Dec. 1948. 475 Sci23
- 33807 BAKER, C. W. Big news in grasses! *South. Seedsman* 12(3): 16, 65. Mar. 1949. 61.8 So8
- 33808 BANAL, R. Blau medic (Medicago lupulina). (In Italian.) *Humus* 5: 15. Jan. 1949. 16 H88
- 33809 BANAL, R. The clover family. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 210-211. Nov. 30, 1948. 16 C72
- 33810 BARNES, O. K. Progress report on some range and grass research, Archer Field Station. *Wyo. Agr. Expt. Sta. Wyo. Range Mangt.* 1, 8 p. June 1948. 60.19 W99
- 33811 BATEMAN, G. Q., KELLER, W., and PACKER, J. E. Actual grazing trials prove new pasture mixtures potentially high producing. *Farm & Home Sci. [Utah Sta.]* 10: 6-7, 17. Mar. 1949. 100 U1F
- 33812 BAUMANN, H., and THOMAS, J. Futterbau und grüdüngung aus eigener saat. Berlin, Deutscher Zentralverlag, 1948. 43 p. 603 B322
- 33813 BEETLE, A. A. An annotated index to grass names. *Wyo. Agr. Expt. Sta. Wyo. Range Mangt.* 4, 3 p. Oct. 1948. 60.19 W99
- 33814 BELMONTE, A. R. Fundamentals of range management seen as key to today's important problem. *West. Livestock J.* 27(12): 73-76. Jan. 15, 1949. 6 F2278
- 33815 BOTHA, J. P. Nile grass (*Acroceras macrum*). *Farming So. Africa* 23: 717-722. Nov. 1948. 24 So842
- 33816 BOTHA, J. P. *Setaria* grasses [bristleglass]. *Farming So. Africa* 23: 729-735. Nov. 1948. 24 So842
- 33817 BOUCHARDEAU, C. Défendons nos abeilles; les trefles, le sainfoin. *Rev. Franc. d'Apic.* 36: 720-722. Dec. 1948. 424.8 R329
- Chiefly pollination.
- 33818 BROMFIELD, L. "Why I am a grass farmer." *Successful Farming* 46(11): 36-37, 154, 156-157. Nov. 1948. 6 Sul2
- 33819 BUONAIUTO, G. Why the peasants cultivate pastures so little. (In Italian.) *Mezzogiorno Agr.* 5(7): 3. Feb. 13, 1949. 16 M57
- 33820 BURBACK, H. J. Range reseeding—no panacea for all conservation ills. *Natl. Wool Grower* 39: 14-16, 18, 42-43. Jan. 1949. 45.8 N21N
- 33821 BURTON, G. W. Bermuda: turf toughie! *South. Seedsman* 12(3): 17, 56-57. Mar. 1949. 61.8 So8
- 33822 CAMPBELL, J. B. The Stavely Grassland Sub-station of the Lethbridge Experimental Station. *Canad. Cattleman* 11: 246-247. Mar. 1949. 49 C16
- 33823 CAPÜLER, B. Growing purple vetch for seed. (In Hebrew.) *Hassadeh* 29: 55-56. Dec. 1948. 26 H27
- 33824 CHAPLINE, W. R. Range research, the foundation for range management and improvement. *Agron. J.* 41: 72-75. Feb. 1949. 4 Am34P
- 33825 CHATTERJEE, I. Khesari (*Lathyrus sativus*) as a human food. *Indian Farming* 9: 328-331. Aug. 1948. 22 In283
- 33826 CHEVALIER, A. Plantes fourragères à cultiver dans les pays tropicaux. *Rev. Internat. de Bot. Appl. et d'Agr. Trop.* 28: 489-500. Nov./Dec. 1948. 26 R323
- 33827 CLAPP, A. J. Don't forget grasses and legumes. *South. Seedsman* 12(3): 32, 41, 52. Mar. 1949. 61.8 So8
- 33828 CLARK, F. L. More moisture more grass. *Hoard's Dairyman* 94: 26. Jan. 10, 1949. 44.8 H65
- 33829 COETZEE, P. J. S. The Pennisetum grasses. *Farming So. Africa* 23: 811-814. Dec. 1948. 24 So842
- 33830 COPE, C. Kudzu worked wonders and will for you. *Prog. Farmer, Car.-Va. Ed.* 64(3): 15. Mar. 1949. 6 P945
- 33831 CRAWFORD, J. SCS reports many acres of pasture improved. *Avoset Dairyman* 2(10): 2. Feb. 1949. 44.8 Av7
- 33832 CRAY, A. S. Grassland improvement. *Gt. Brit. Min. Agr. Agriculture* 55: 469-475. Feb. 1949. 10 G79J
- 33833 CRESCINI, F. Forage from the fields of Marcito. (In Italian.) *Humus* 4(11): 14-15. Nov. 1948. 16 H88
- 33834 DAVIES, W. Grassland and the farmer. 6. Pasture improvement. *Agr. Ireland* 6: 17, 19-20. Jan. 1949. 10.5 Ag8
- 33835 DAWSON, D. Kudzu in Texas. *Land* 7: 624-625. Winter 1948/49. 279.8 L22
- Culture.
- 33836 DAWSON, G. T. Berseem clover, a valuable winter and spring fodder crop. *Agr. Gaz. N. S. Wales* 59: 637-638, 652. Dec. 1, 1948. 23 N472



- 33837 **DIKEY, R. N.** The economics of grass conservation. n. p., 1948. 14 p. 60.1 D642 England.
- 33838 **DODD, D. R.** Birdsfoot trefoil—new legume for Ohio. *Hoosier Hort.* 31: 15-16. (To be cont.) Jan. 1949. 81 In2H
- 33839 **DONALDSON, R. W.** The green pastures of New England. *Pasture Prog.* 4: 1-4. Feb. 2, 1949. 60.18 P262
- 33840 **DU TOIT, J. J.** The production and uses of sunn-hemp [*Sunn grotalaria*]. *Farming So. Africa* 23: 819-822. Dec. 1948. 24 So842
- 33841 **ELAM, F. L.** Farming the soil for livestock. *West. Livestock J.* 27(12): 50, 66. Jan. 15, 1949. 6 F2278
- Forage plants.
- 33842 **EMRICK, W. E.** How to plant permanent pasture. *Calif. Farmer, South. Ed.* 190: 196-197. Feb. 26, 1949. 6 C126A
- 33843 **EVANS, R. J.** Red clover produces both a forage and a seed crop. *Farm & Home Sci. [Utah.Sta.]* 10: 5, 19. Mar. 1949. 100 Ut1F
- Variety tests.
- 33844 **FELLOWS, I. F.** What method of hay harvesting is best? C[onn]. M[i]lk. P[rod]. A[ssoc]. B. 29(354): 8-9. Feb. 1949. 44.9 C768
- 33845 **FRISCHKNECHT, N. C., and PLUMMER, A. P.** A simplified technique for determining herbage production on range and pasture land. *Agron. J.* 41: 63-65. Feb. 1949. 4 Am34P
- 33846 **FRYER, J. R.** Defoliation of alfalfa and clover seed crops. *Alberta. U. Dept. Plant Sci. Seasonal Notes* 34: 4-5. Jan. 8, 1949. 64.9 AL12
- 33847 **GJERTSON, J. O.** Practical guides for seedling grass on skid roads, trails, and landings, following logging on east-side forests of Washington and Oregon. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 49, 5 p. Jan. 20, 1949. 1.9 F7629Fr
- 33848 **GRANDY, D. D.** Double forage by reseedling. *Utah Farmer* 68(13): 7. Feb. 26, 1949. 6 D45
- Reseeding range land.
- 33849 **HAFENRICHTER, A. L.** Back to grass. *Wash. Farmer* 74: 155, 176. Mar. 3, 1949. 6 R151
- Varieties.
- 33850 **HANSON, A. A.** How to have good pastures. *Macdonald Col. J.* 9(5): 8-9. Jan. 1949. 101 M144
- 33851 **HARDY, W. D.** Clovers for milk and meat on the Southern Tableland. *Agr. Gaz. N. S. Wales* 59: 617-619. (Cont.) Dec. 1, 1948. 23 N472
- Utilization of subterranean clover in pastures.
- 33852 **HARRISON, C. M.** Forage crop management for higher yields. III. *Hoard's Dairyman* 94: 14. Jan. 10, 1949. 44.8 H65
- 33853 **HODGES, E. M., and JONES, D. W.** Grass on Southern Florida sand. I. Preparation of soil, choice of land. *Fla. Cattleman* 13(5): 14-15. Feb. 1949. 43.8 F66
- 33854 **HOLMES, W.** The intensive production of herbage for crop-drying. I. *J. Agr. Sci. [London]* 425-436. Ref. Oct. 1948. 10 J822
- 33855 **HOWARD, R.** Rushes to grass in a year. *Farmer & Stock-Breeder* 63: 334. Feb. 8, 1949. 10 F228
- Method used on heavy wet land near Romney Marsh.
- 33856 **HUFF, W. C.** Bottlenecks in grassland agriculture. *Natl. Assoc. Silo Mfrs. Prod.* 36: 78-87. 1948. 60.79 N21
- 33857 **HUGHES, H. D.** Is Ladino for Iowa? *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 3(8): 14. Feb. 1949. 275.28 Io94
- 33858 **HUNTER, A. S.** Yield and composition of alfalfa as affected by variations in the calcium-magnesium ratio in the soil. *Soil Sci.* 67: 53-62. Ref. Jan. 1949. 56.8 So3
- 33859 **HUTCHESON, T. B.** Make pastures profitable. *Amer. Plant Food Council. J.* 2(4): 6, 11-12, 15-16. Oct./Dec. 1948. 57.8 P692
- 33860 **IYER, S. N. C., PARTHASARATHY, S. V., and SUNDARARAJ, D. D.** Fodder grasses of Madras. *Madras Agr. J.* 35: 379-384. Dec. 1948. 22 M262
- 33861 **JONES, B. J.** Pastures—cold weather poses problem for pasture planters. *West. Dairy J.* 5(5): 49. Mar. 1, 1949. 44.8 W524
- 33862 **KELLY, A. G.** Cultivation of lucerne in Natal. *Farmer & Home Companion* 38(3): 12, 14. Jan. 21, 1949. 24 F227
- 33863 **KING, W. A.** Pasture: a real cash crop. *Avoset Dairyman* 2(10): 3. Feb. 1949. 44.8 Av7
- 33864 **KNIELY, A.** Almanger und wildheu, die versicherung gegen den hunger. *Salzburg. Bauer* 3(51): 3-5. Dec. 16, 1948. 19 Sa3
- 33865 **KONING, H.** Economic grass seed culture. (In Dutch.) *Boer en Tuinder* 3(113): 5. Mar. 5, 1949. 12 B632
- 33866 **KONSTANTINOVA, A. M.** Methods of utilizing wild growing alfalfas in the development of varieties in the new regions of alfalfa production. (In Russian.) *Selek. i Semen.* 15(8): 35-42. Aug. 1948. 61.9 Se5
- 33867 **KOSAREV, M. G., and IUVENSKAIA, S. I.** Hardness of alfalfa seeds. (In Russian.) *Selek. i Semen.* 15(7): 57-60. July 1948. 61.9 Se5
- 33868 **KOVÁTSITS, L.** Takarmánytermesztésünk korszerű átszervezése [Right policy in the Hungarian fodder-growing]. *Növénytermelési Kutatások (ser. 6)* 10, 12 p. 1948. 281.8 N85
- English summary.
- 33869 **KUZ'MIN, V. P.** Hybrid alfalfa seeds. (In Russian.) *Selek. i Semen.* 15(8): 63-64. Aug. 1948. 61.9 Se5
- 33870 **LANCASTER, R. R.** Rhodesgrass, for hay and pasture in South Texas. *Tex. Agr. Col. Ext. C-245*, 8 p. 1949. 275.29 T312C
- 33871 **LEBEAU, R.** Les alpages du Jura français. *Études Rhodaniennes* 23: 185-204. 1948. 473 Et8
- 33872 **LE CLUS, P. G.** Alfalfa problems and mechanical drainage. (In Afrikaans.) *Primary Prod. [Cape Town]* 24(2): 7, 14. Jan. 14, 1949. 281.8 P93
- 33873 **LEMMON, P. E., and TAYLOR, P. W.** Pampas grass—widespread use of new plant for perennial dryland pasture seen. *West. Livestock J.* 27(17): 104, 114-115. Feb. 15, 1949. 6 F2278
- 33874 **LOVVORN, R. L.** Small grains for winter forage in the South. *Victory Farm Forum* 34: 6. Mar. 1949. 281.8 F226
- 33875 **MCCONNELL, O. E.** Better grass management increases profits. *Amer. Farm Pict.* 1949: 1-2. Winter 1949. 6 Am396
- Range management.
- 33876 **MCNULTY, G.** Gold Hill stockman grows green gold. *Oreg. Farmer* 72(3): 71, 82. Feb. 3, 1949. 6 Or3
- Varieties of forage plants.
- 33877 **MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV.** Enter the green pastures contest. *Maine. Agr. Col. Ext. C.* 248, 6 p.-folder. Apr. 1948. 275.29 M281C
- New England Green Pastures Contest.
- 33878 **MALYGIN, I. U. N.** Selection of perennial lupine. (In Russian.) *Selek. i Semen.* 15(7): 44-52. July 1948. 61.9 Se5
- 33879 **MARTIN, R.** Kobe lespedeza is becoming popular in Eastern Oklahoma. *Farmer-Stockman* 62(3): 5, 27. Mar. 1949. 6 Ok4
- 33880 **MATLOCK, R. L., and AEPLI, D. C.** Growth and diseases of guar. *Ariz. Agr. Expt. Sta. B.* 216, 42 p. Ref. July 1948. 100 Ar4
- 33881 **MAULDIN, R. C.** Grasses we should know more about. *Tex. Livestock J.* 8: 8, 94. Jan. 15, 1949. 49 T29
- Indiangrass, Little Bluestem, and Sand Bluestem.
- 33882 **MIMEUR, G.** La reproduction des Graminées prairiales. Les problèmes qu'elle soulève. *Rev. Internatl. de Bot. Appl. et d'Agr. Trop.* 28: 501-508. (To be cont.) Nov./Dec. 1948. 26 R323
- 33883 **MOOR, A.** Von kleiner fläche höchste leistung; vorbericht über winterzwischenfruchtbau zur erweiterung der futterbasis. *Tierzucht* 2: 138-140. Sept. 1948. 49 T443
- 33884 **MOSOLOV, V. P.** Clover and cover crops. (In Russian.) *Sovet. Agron.* 6(10): 32-38. Oct. 1948. 20 So84
- Red clover.
- 33885 **MÜLLER, K.** Hohe milchleistung durch intensive weidenbewirtschaftung. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 115-116. Feb. 12, 1949. 18 L2346



- 33886 NEAL, E. M., HALL, R. A., and JONES, J. H. Sweet and common Sudan grass for pasturage. Tex. Agr. Expt. Sta. Prog. Rpt. 1149, 2 p. Feb. 9, 1949. 100 T31P
- 33887 NELSON, E. W. Better grass for Western ranges. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 158. Jan. 1, 1949. 6 R153
- 33888 NEUMEISTER, F. Ist unsere Allgäuer dauergrünlandwirtschaft wettbewerbsfähig? Allgäuer Bauernbl. 17: 2-3. Jan. 7, 1949. 18 AL53
- 33889 NEVENS, W. B. You can have green pastures all season. Successful Farming 47(2): 41, 148. Feb. 1949. 6 Su12
- 33890 NISSANOV, S. Experiments and conclusions in connection with the growing of clover. (In Hebrew.) Hassadeh 29: 56-57. Dec. 1948. 26 H27
- 33891 PATERSON, R. A ley is as good as its keep. Farmers Weekly [London] 30(3): 39. Jan. 21, 1949. 10 F2226
- Pasture management.
- 33892 PELLET, M. Paturage intensif. B. des Engrais 20: 468-472. Dec. 1948. 57.8 B87
- 33893 PETERSON, M. L. Spring pastures. Breeder's Gaz. 114(4): 16-17. Apr. 1949. 49 B74
- 33894 POULTON, C. E. A study of forage volume sampling on grassland range. (Abs.) J. Forestry 47: 195. Mar. 1949. 99.8 F768
- 33895 PRINCE, F. S., and SPAVEN, J. W. Greener pastures—pride of New England. Crops & Soils 1(5): 10-11. Feb. 1949. 6 W55
- New England Green Pastures Contest.
- 33896 REED, O. E. Renovating pastures. Breeder's Gaz. 114(4): 17. Apr. 1949. 49 B74
- 33897 REUTER, R. Richtlinien für den luzerneanbau. Allgäuer Bauernbl. 17: 3. Jan. 7, 1949. 18 AL53
- 33898 REYNTENS. L'analyse botanique des herbages et l'abaissement du prix de revient des productions animales. Agriculteur 53(4): 3. Jan. 23, 1949. 13 B63P
- 33899 RICE, W. H. Ladino clover pastures reduce poultry production costs. Md. Poultry Ybk. 1949: 59. 47.9 M36
- 33900 ROBERTS, G. Sow alfalfa and grass together. Ky. Farmer 85(2): 18. Feb. 1949. 6 F2237
- 33901 ROCASOLANO, C. Las leguminosas en cultivos asociados. Cult. Mod. 31: 450. Dec. 1948. 15 C89
- 33902 ROE, J. Grow your own fertilizer. Successful Farming 47(3): 36-37, 139. Mar. 1949. 6 Su12
- Sweetclover.
- 33903 ROSSI, S. Improve the pastures. (In Italian.) Agr. Romagna 1949(2): 2. Jan. 20, 1949. 16 Ag828
- 33904 RUDE. Grassamenbau—zweckmässig? Württemberg. Wchnbl. f. Landw. 116: 93. Feb. 19, 1949. 18 W96
- 33905 SCHAAL, W. The new Williamsburg alfalfa. Crops & Soils 1(5): 12-13. Feb. 1949. 6 W55
- 33906 SHAIN, S. S. Determining the quantity of roots of perennial forage plants and grasses in the soil. (In Russian.) Sovet. Agron. 6(10): 86-91. Oct. 1948. 20 So84
- 33907 SIMS, H. J., and MCCANN, J. M. Pasture and sheep investigations at the Mallee Research Station. Victoria. Dept. Agr. J. 46: 548-559, 561. Dec. 1948. 23 V66J
- 33908 SIRRI, A. Improvement of meadows and pastures and increase of selected livestock. (In Italian.) Voce dei Campi 4(4): 2. (To be cont.) Feb. 10, 1949. 16 V852
- Italy.
- 33909 SNYDER, H. J. Ladino clover for better pastures. Hoard's Dairyman 94: 211. Mar. 10, 1949. 44.8 H65
- 33910 STADLER, H. Das futter als grundlage der viehwirtschaft. Salzburg. Bauer 3(51): 1-2. Dec. 16, 1948. 19 Sa3
- Culture of forage plants and pastures.
- 33911 STAELER, H. Hat die mähweide wirklich nachteile? Allgäuer Bauernbl. 16: 340-341. Dec. 24, 1948. 18 AL53
- 33912 STAPLEDON, SIR R. G. A plan for the production of winter grass. Gt. Brit. Min. Agr. Agriculture 55: 461-465. Feb. 1949. 10 G79J
- 33913 SUSLOV, A. F. Seed production of meadow forage grasses in grass mixtures. (In Russian.) Selekt. i Semen. 15(7): 52-57. July 1948. 61.9 Se5
- 33914 TABOR, P. Additions to the early history of common lespedeza in the United States. Amer. Soc. Agron. J. 40: 942-943. Ref. Oct. 1948. 4 Am34P
- 33915 TABOR, P. Jointhead grass [Arthraxon]. Agron. J. 41: 98. Feb. 1949. 4 Am34P
- 33916 TEMPLETON, W. C., JR. More profits thru "grassland farming"; management of grasslands. Ky. Farmer 85(2): 3, 19; (3): 14-15, 36. Feb.-Mar. 1949. 6 F2237
- 33917 THOMPSON, W. R. Pasture work never lets up. Prog. Farmer, Miss.-Ark.-La. Ed. 64(2): 26, 110. Feb. 1949. 6 So81
- 33918 THOMPSON, W. R. Sweet Sudan for summer grazing. Miss. State Col. Ext. Leaflet 86, 4 p. Apr. 1948. 275.29 M68Ex
- 33919 TRABAUER, F. Die anlage von koppel- und mähweiden. Landwirtschaft 22(1/2): 1-3. 1949. 19 L235
- 33920 TRIST, P. J. O. New leys in Essex. Gt. Brit. Min. Agr. Agriculture 55: 465-469. Feb. 1949. 10 G79J
- 33921 UNGLAUB, H. Der grassamenbau, seine wirtschaftlichen voraussetzungen und seine eingliederung in den landwirtschaftlichen betrieb. Stuttgart, Ulmer, 1948. 34 p. 60.1 Un35
- 33922 VASS, A. F., and others. The range lands of Wyoming; a summary of the record of 50 years' study by the scientists of the Wyoming Agricultural Experiment Station. Wyo. Agr. Expt. Sta. B. 289, 35 p. Feb. 1949. 100 W99
- A. A. Beetle, R. Lang, and M. Haag, joint authors. Chiefly on the question of overgrazing.
- 33923 VOGLER, E. L'exploitation rationnelle des pâturages. Potasse 23: 22-24. Feb. 1949. 57.8 P84
- 33924 WALKER, A. H. A new concept—range management. Sheep and Goat Raiser 29(6): 32-33. Mar. 1949. 45.8 Sh3
- 33925 WATSON, S. J. The utilisation of grassland. Highland and Agr. Soc. Scot. Trans. (Ser. 5) 60: 31-47. 1948. 10 H536
- 33926 WELLHAUSEN, H. W. Alta and Kentucky 31 Fescue production in Tennessee. Tenn. Agr. Col. Ext. Leaflet 95, rev., 4 p. Oct. 1948. 275.29 T25L
- 33927 WELLINGER, J. La luzerne arborescente. Agriculture [Paris] 12: 375-378. Dec. 1948. 14 Ag823
- 33928 WHITE, J. B. Changing wiregrass to clover. Fla. Grower 57(3): 8. Mar. 1949. 80 F6622
- 33929 WHYTE, R. O. The fodder resources of Palestine; a report of a survey made in autumn 1945 and spring 1946. Jerusalem, Govt. Print. Off., 1948. 31 p. 60 W62
- 33930 WILLARD, C. J., BEARD, D. F., and THATCHER, L. E. Alfalfa varieties for Ohio. Ohio Agr. Col. Ext. B. 291, 8 p. Feb. 1948. 275.29 Oh32
- 33931 WILLARD, C. J., and BEARD, D. F. Bromegrass; use and culture on Ohio farms. Ohio Agr. Col. Ext. B. 290, 8 p. Jan. 1948. 275.29 Oh32
- 33932 WILSON, T. I. Gray ashes of burned over area converted into green grass. Oreg. Farmer 72: 108. Feb. 17, 1949. 6 Or32
- Grass varieties used for erosion protection.
- 33933 WOBST. Futterfläche und wiesenerträge. Landw. Wchnbl. f. Westfalen u. Lippe 105: 363. Dec. 11, 1948. 18 L2346
- 33934 WOLFE, L. G. Tall wheatgrass comes to the Platte Valley. Soil Conserv. 14: 171-173. Mar. 1949. 1.6 So3S

#### Oil Crops

- 33935 AMARGÓS, J. L., and DÍAZ ROMERO, E. Cultivo del manf. Agronomía [Habana] 8(12): 21-24. (To be cont.) Dec. 1948. 8 C893
- 33936 BALDONI, R. Cultivation of soybeans in America and Italy. (In Italian.) Humus 5: 12-14. Jan. 1949. 16 H88
- 33937 BALDONI, R. Soybean cultivation tests. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 603-642. Ref. 1948. 16 An76
- English summary.



33938 BURR, L. Etwas zum sojabaubau. Württemb. Wechbl. f. Landw. 115: 396. Dec. 18, 1948. 18 W96

33939 CARR, R. B. Compare vegetable soybean varieties at Delta Station. Miss. Farm Res. [Miss. Sta.] 11(12): 4. Dec. 1948. 100 M69Mi

33940 CARR, R. B. Grain types of soybeans good for hay. Miss. Farm Res. [Miss. Sta.] 12(2): 1, 7. Feb. 1949. 100 M69Mi

33941 CHEVALIER, A. Genèse et origine géographique des arachides cultivées et possibilité de leur amélioration. Rev. Internat. de Bot. Appl. et d'Agr. Trop. 28: 514-519. Ref. Nov./Dec. 1948. 26 R323

33942 CHILDS, A. H. B. Sunflower production in the Iringa District. East African Agr. J. 14: 77-78. Oct. 1948. 24 Ea74

33943 CLEAL, H. Adams soybean. Iowa Agriculturist 48(6): 10. Jan. 1949. 6 Io9

33944 DEUTSCHE ARBEITSGEMEINSCHAFT SOJA. Anleitung für den anbau von soja. Weilsbronn, 1948. 2 p. 60.3 D48

33945 FEASTER, C. V. Influence of planting date on yield and other characteristics of soybeans grown in southeast Missouri. Agron. J. 41: 57-62. Feb. 1949. 4 Am34P

33946 HÄSTADIUS, N. Soybean culture; impressions from a trip to the U. S. A. (In Swedish.) Lantmannen 33: 143-144. Feb. 26, 1949. 11 L234

33947 HENDERSON, E. S. Thanks to the rabbits—now we eat soybeans. Flower Grower 36: 290-291. Mar. 1949. 80 M72

33948 HURT, E. F. A new economic crop: sunflower. Power Farmer 3: 82-83. Mar. 1949. 58.8 P872

33949 JOUBERT, A. J. South African oil plants. (In Afrikaans.) Landbouweekblad 30(1534): 51, 53, 59. Dec. 8, 1948. 24 L232

33950 KADE, J. Plantas productoras de sustancias grasas. Chacra 19(220): 58, 100. Feb. 1949. 9 C34

33951 KALTON, R. R. Breeding behavior at successive generations following hybridization in soybeans. Iowa Agr. Expt. Sta. Res. B. 358, p. 671-732. Ref. Dec. 1948. 100 Io9

33952 KENNEDY, W. K., and UNRAU, J. A rapid method for determining the oil content of safflower and sunflower seeds. Agron. J. 41: 93-95. Feb. 1949. 4 Am34P

33953 KNOWLES, P. F. Castor beans studied for potential values as oil crop for California production. Calif. Agr. [Calif. Sta.] 3(3): 13-14. Mar. 1949. 100 C12Cag

33954 MIEGE, E. Les exigences du lin oléagineux. Voix des Colons 31(1492): 1-2. Feb. 21, 1949. 24 V85

33955 MITCHELL, W. K. Why not a big peanut industry? Farmer [Kingston] 52: 214-216, 218. Oct./Dec. 1948. 8 J223  
Chiefly culture.

33956 MONTANARI, V. Agronomic and industrial possibilities of the soybean. (In Italian.) Agr. delle Venezie 2: 800-823. Sept./Oct. 1948. 16 Ag826

33957 OCAÑA, B. Valor y cultivo del maní, una leguminosa. Panama, 1948. 24 p. 77 Oc1

33958 ORTEGA, R., and LANGHAM, D. G. Obtención de un nuevo tipo de tártao (Ricinus communis L.) por hibridación. Venezuela. Dept. de Genet. C. 27, 11 p. July 1947. 64.9 V55  
English summary.

33959 PURSER, R. Canada can grow her own edible oil. Family Herald & Weekly Star 80(4): 3. Jan. 26, 1949. 7 F21

33960 RAMOS NUÑEZ, G. Perspectivas para el cultivo de la higuera en Colombia. Agr. Trop. Sup. Agron. 5: 14-18. Jan. 1949. 26 Ag8

33961 SHIMANSKI, N. K. Free intervarietal cross-pollination of sunflower. (In Russian.) Selekt. i Semen. 15(7): 41-43. July 1948. 61.9 Se5

33962 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Rape as an oil seed crop, by A. F. Sievers. Washington? 1948. 2 p. 1.965 T2R18

33963 VSESOIUZNYĖ NAUCHNO-ISSLEDOVATEL'SKIĖ INSTITUT MASLICHNYKH KUL'TUR. Nauchnyi otchet 1941-1944. Moskva, Sel'khozgiz, 1947. 415 p. 77.9 K86N

Oil plants research in the U. S. S. R.

33964 WILSON, A. S. B., CATTO, G. A., and MEKLEJOHN, A. K. M. Linseed trials, 1948. Scot. Agr. 28: 150-155. Winter 1948/49. 10 Sco82So

### Sugar Crops

33965 CLAYTON, J. L. Sugar culture in Hawaii. (Sum.) Austral. Inst. Agr. Sci. J. 14: 193. Dec. 1948. 23 Au74

33966 DILLEWIJN, C. VAN. Influence of the kind of planting material on the stalk population. Sugar 44(3): 38-39. Mar. 1949. 65.8 F11

33967 ELCOCK, H. A. Sugar beets and stoop labor are no longer synonymous. Sugar Beet 8: 6-7, 25. Mar. 1949. 66.8 Su34B

33968 GAUTIER-WALTER, A. Que veulent les betteraviers? Produire davantage. Monit. Agr. 2(57): 1. Feb. 13, 1949. 14 M744

33969 THE GILMORE manual azucarero de Cuba; Cuba sugar manual, 1948/49. New Orleans, La., 1949. 464 p. 65.8 G42

33970 HADDOK, J. L. The influence of plant population, soil moisture, and nitrogen fertilization on the sugar content and yield of sugar beets. Agron. J. 41: 79-84. Ref. Feb. 1949. 4 Am34P

33971 JENSEN, V. Processed sugar beet seed. Sugar Beet 8: 13. Mar. 1949. 66.8 Su34B

33972 JOYCE, J. A grower's view on flat cultivation. Beet Grower 2: 350-352. Jan. 1949. 66.8 B392

33973 JUÁREZ MONTEGRIFO, F. La remolacha azucarera y su cultivo en la provincia de Murcia. Murcia, Spain. Cám. Ofic. Agr. B. 73/74: 4-5, 8. Nov./Dec. 1948. 15 M93

33974 LOH, C. S., and others. A progress report on the failure of the ratooning sugarcane in Taiwan. (In Chinese.) J. Sugarcane Res. 2(10): 1-47. Oct. 1948. 65.8 J822

S. M. Ma, C. S. Yeung, K. H. Kwong, M. Y. Wu, H. C. Chiang, H. B. Leung, and N. S. Chen, joint authors.

33975 ORLOVSKIĖ, N. I. Whatever the breeders select the seed producers reject. (In Russian.) Agrobiologiya 1948(3): 150-152. May/June 1948. 20 Ag822  
Sugar beets.

33976 PANJE, R. R. Wooden pans for sugarcane seedlings. Cur. Sci. 18: 18. Jan. 1949. 475 Sci23

33977 PULZ, K. Steigerung der zuckerrübenproduktion im jahre 1949. Österr. Bauernbündler 5(4): 3. Jan. 22, 1949. 19 Os7

33978 ROLTO, F., and MASTRASCUSA, L. M. Ensayos comparativos de remolacha azucarera. Uruguay. U. Facul. de Agron. Rev. 45: 25-41. May 1948. 102.5 M76R

33979 SHA, C. K., and LIN, K. T. A preliminary study of sixteen varieties of sugar cane. (In Chinese.) Fukien Agr. J. 9: 105-116. June 1948. 22.5 F95  
English summary.

33980 SHEE, B. W. A preliminary report on the germination of sugarcane. 3. The effect of water soaking upon germination. (In Chinese.) J. Sugarcane Res. 2(11): 9-19. Nov. 1948. 65.8 J822  
English summary.

### Tobacco

33981 ALCARAZ MIRA, E. El nuevo centro del cultivo del tabaco. Surco [Madrid] 7(81): 18-21. Nov. 1948. 15 Su7

33982 BOUCLIER. Culture rationnelle du tabac à priser. Rev. Agr. de l'Afrique du Nord 46: 604-605. (To be cont.) Dec. 3, 1948. 80 R326

33983 HUNT, R. Know your [tobacco] variety—burley. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 64(2): 20. Feb. 1949. 6 P945K

33984 PERUCCI, E. The "Resistant 142." (In Italian.) Tabacco 52: 297-317. (Cont.) Oct. 1948. 69.8 T115

33985 PONTING, C. Better luck this year with your tobacco crop. Pop. Gard. 50: 458, 464. Jan. 29, 1949. 80 G1622

33986 SERANDOUR, P. L'exemple du tabac. Monit. Agr. 2(57): 3. Feb. 13, 1949. 14 M744

33987 STREET, O. E. Producing cigar tobacco in Pennsylvania. U. S. D. A. Farmers' B. 2001, 32 p. Dec. 1948. 1 Ag84F



## HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

## General

- 33988 AGENDA des horticulteurs, 55th, 1949. 1948? 288 p. 80 Ag3 France.
- 33989 ALDRICH, W. W. Hard, bare soil may reduce frost losses. Peninsula Hort. Soc. Trans. 62: 33-36. 1948. 81 P37
- 33990 ALLEN, E. J., and BURTON, L. H. 4-H gardening. Ark. Agr. Col. Ext. C. 359, rev., 28 p. Apr. 1948. 275.29 Ar4
- 33991 ALLERTON, F. W. Modern propagating technique. Nurseryman & Seedsman 108: 354-355. Feb. 3, 1949. 80 N933
- 33992 ALMINDELIG DANSK GARTNERFORENING. Årbog for gartneri [Horticultural yearbook], 30, 1948. København, 1949. 432 p. 86 AL6
- 33993 AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE. Proceedings, November 1948. East Lansing, Mich., 1948. v. 52, 576 p. 81 So12
- 33994 ARMBRECHT, O. Gedanken eines alten gärtners. Süddeut. Erwerbsgärt. 2: 58-59. Aug. 1948. 80 Su2
- 33995 ARRUDA, A. F. DE. My garden; invitation to horticulture. (In Portuguese.) Chacaras e Quintais 78: 701-702. (Cont.) Dec. 15, 1948. 9.2 C34
- 33996 BAAKE, H. C. Lathhouses. Golden Gard. 13: 84, 94. Feb. 1949. 80 G56
- 33997 BAILEY, L. H. Mysteries never cease. Horticulture 26: 410. Nov. 1948. 80 H787
- 33998 BANGA, O. De veredeling van tuinbouwgewassen in de Verenigde Staten van Amerika [The improvement of horticultural plants in the United States of America]. Inst. v. de Veredeling van Tuinbouwgewassen. Meded. 9, 73 p. July 1948. 86 W12
- 33999 BAUMGARTNER, H. Der gartenbau in der Schweiz. Berufsgärt. 1(12): 1-3. Dec. 1948. 80 B463
- 34000 BEAR, P. K. Bush and standard tree pruning. Amateur Gard. Ann. 1949: 94. 80 Am12
- 34001 BLODGETT, E. C., and WILLIAMS, H. E. The 1948 progress report of the Moxee Plant Introduction & Quarantine Station. Wash. State Hort. Assoc. Proc. 44: 215-216. 1948. 81 W273
- 34002 BLODGETT, E. C., EATON, J. S., and GRAHAM, S. C. The 1948 report on the nursery improvement program in the State of Washington. Wash. State Hort. Assoc. Proc. 44: 217-218. 1948. 81 W273
- 34003 BODDY, F. A. Industry and horticulture. I. North. Gard. 3: 3-8. Jan. 1949. 80 N816
- 34004 BOSWORTH, H. Nature education dramatized for children at the Morton Arboretum. Green Thumb 6(2): 6-7. Feb. 1949. 80 G82
- 34005 BRAUN, E. Demonstration horticultural layouts for institutions. West. Canad. Soc. Hort. Rpt. Proc. 4: 57-58. 1948. 82 W522
- 34006 BUCKLEY, K. H. In my garden; it's work, but it pays. Miss. State Col. Ext. C. 144, 8 p. Jan. 1948. 275.29 M68C
- 34007 BULL-HANSEN, G. A trip to Finmark in the summer 1948. (In Norwegian.) Norsk Hagetidend 65: 22-25. Feb. 1, 1949. 80 N81
- Fruit and vegetable gardens.
- 34008 BURNHAM, G. T. Active plants for active children. Amer. Home 41(4): 134-138. Mar. 1949. 80 Am313
- 34009 BUSH, F. A. The amateur's greenhouse. My Gard. 38: 143-146. Feb. 1949. 80 M995
- 34010 BUTTERFIELD, H. M. The beginnings of horticulture in California. Ann. Calif. Spring Gard. Show 16: 12-13. 1948. 80 C1282
- 34011 CARSON, C. M. The 1949 All-Americas, gold medals galore! South. Seedsman 12(3): 15. Mar. 1949. 61.8 So8
- 34012 CARTER, G. A. J. Flowers, shrubs & fruit for the small garden. Worcester, Eng., Littlebury, 1948. 86 p. 90.3 C24
- 34013 CHASE, J. L. H. Cloche gardening. London, Faber, 1948. 196 p. 90.13 C38Cg
- 34014 DAVIS, M. B. Horticulture across Canada. West. Canad. Soc. Hort. Rpt. Proc. 4: 63-71. 1948. 82 W522
- 34015 DORST, W. L'inspection des semences en Hollande. J. de la France Agr. 5: 18-19. Jan. 14/20, 1949. 14 J829
- 34016 DOVASTON, H. F. New light on seed germination. Gard. Illus. 66: 54, 56. Mar. 1949. 80 G169
- 34017 DUFRENOY, M. L. François Bernier et l'histoire de l'horticulture. Rev. Hort. [Paris] (n. s.) 31: 326-327. Oct. 1948. 80 R32
- 34018 DUNBAR, C. O. Orchard heating 1948. Peninsula Hort. Soc. Trans. 62: 27-30. 1948. 81 P37
- 34019 EYSTER, W. H. How to plant and prune nursery stock. Organic Gard. 14(3): 39-42. Mar. 1949. 56.8 Or3
- 34020 FERNIE, L. M. The Amani Plantations; an account of some of the more interesting horticultural features to be seen at the East African Agricultural Research Institute, Amani, Tanganyika Territory. East African Agr. J. 14: 86-93. Oct. 1948. 24 Ea74
- 34021 FOTHERGILL, H. S. A new seed-raising medium. Iris Ybk. 25: 118-120. 1948. 84 Ir4
- Vermiculite.
- 34022 FREE, M. What makes a plant really hardy? Home Gard. 13(3): 32-36. Mar. 1949. 80 H756
- 34023 GARNER, R. J. The grafter's handbook. London, Faber, 1949. 223 p. 93.5 G18
- 34024 GERRETSEN, F. C., MANTEN, A., and MULLER, F. M. Investigations concerning the preparation and application of substitutes for the present practice of using stable manure and cereal straw in the biological heating of hot-beds. Plant & Soil 1: 240-263. Ref. Jan. 1949. 450 P696
- 34025 GRANT, R. Planning this season's crops. Grower [London] 31: 248. Feb. 5, 1949. 286.83 M34
- 34026 GRAVES, G. If you are going to garden near Boston. Amer. Home 41(4): 52-53, 133. Mar. 1949. 80 Am313
- 34027 GROH, W. Leistungsnormen für Junggärtner. Gartenfreund f. Junggärt. 1(10): 1-6. Oct. 1948. 80 G1935
- 34028 GUERIN, B. C. DE. Guernsey's latest glass-houses. Fruit-Grower 107: 136. Feb. 3, 1949. 80 F941
- 34029 HARDY, R. M. Many things can be grown at home; propagation of plants. Horticulture 26: 416. Nov. 1948. 80 H787
- 34030 HARGRAVE, P. D. Vegetative propagation from the standpoint of plant anatomy. West. Canad. Soc. Hort. Rpt. Proc. 4: 22-24. 1948. 82 W522
- 34031 HASTINGS, W. R. All-America Selections for 1950 are announced; red Petunia Fire Chief, Uconn squash, Fulcrop snapbean are all top medal award winners. Seed Trade News 52(10): 1, 4. Mar. 9, 1949. 61.8 Se3
- 34032 HASTINGS, W. R. The 1950 All-America winners. Seed World 64(5): 8, 12, 46. Mar. 7, 1949. 61.8 Se52
- 34033 HELLYER, A. G. L., ed. Amateur gardening annual, 1949. London, 1949. 112 p. 80 Am12
- 34034 HELLYER, A. G. L. The pruning season. Amateur Gard. Ann. 1949: 41. 80 Am12
- 34035 HENKEL, H. Wandlungen im garten. Obst-u. Gartenbau 3: 75. Dec. 1, 1948. 80 O672
- 34036 HEPBURN, N. Grower experiences with orchard heating. Peninsula Hort. Soc. Trans. 62: 31-33, 1948. 81 P37
- 34037 HILTON, R. J. Inert materials as media for vegetative propagation. West. Canad. Soc. Hort. Rpt. Proc. 4: 30-31. 1948. 82 W522
- 34038 HOUSE Beautiful's practical gardener. New York, 1949. 116 p. 80 H813
- 34039 HUTTON, E. V. The propagation of clonal stocks by layering and root cuttings. West. Canad. Soc. Hort. Rpt. Proc. 4: 25-26. 1948. 82 W522
- 34040 JELITTO, L. Die ausstellung der gartenbau-gesellschaft "Flora" Stuttgart. Süddeut. Erwerbsgärt. 2: 57. Aug. 1948. 80 Su2
- 34041 JOHNSTON, J. C. Frost protection. Calif. Avocado Soc. Ybk. 33: 122-124. 1948. 81 C128
- 34042 JOHNSTON, S. The American Pomological Society, its history, accomplishments, and objectives. Wash. State Hort. Assoc. Proc. 44: 197-198. 1948. 81 W273



- 34043 KAMMERER, E. L., and NORDINE, R. M. Propagating woody plants by hardwood cuttings. *Morton Arboretum. B. Pop. Inform.* 24: 1-3. Jan. 1949. 99.9 M84
- 34044 KARTACK, MRS. R. E. Advantages of a summer lathhouse. *Begonian* 16: 36-37. Feb. 1949. 96.511 B39
- 34045 KEARN, G. Whither horticultural education? *Fruit-Grower* 107: 135-136. Feb. 3, 1949. 80 F941
- 34046 KILIAN, W. Gedanken zur berufswahl und berufsausbildung. *Gartenjahr* 3: 195-196. Dec. 1948. 80 G1932
- 34047 KING, J. H. Soilless culture. *North. Gard.* 3: 9-13. Jan. 1949. 80 N816
- 34048 KRÖDEL, F. Nachwuchssorgen. *Süddeut. Erwerbsgärt.* 2: 61-62. Aug. 1948. 80 Su2
- 34049 LAING, G. B. Activities of the County Agricultural Commissioner. *Ann. Calif. Spring Gard. Show* 16: 43, 55. 1948. 80 C1282
- 34050 LANSINGAN, N. P. Growing plants without soil. *Agr.-Com.-Indus. Life* 10(12): 2, 43. Dec. 1948. 25 Ag8
- 34051 LAWRENCE, W. J. C. Science and the glass-house. *Edinburgh, Oliver and Boyd*, 1948. 174 p. 90.13 L43
- 34052 LOUVAIN, P. N'abusez pas de la taille. *Réveil Agr.* 58: 53-54. Feb. 15, 1949. 14 R322
- Pruning.
- 34053 LYNN-MAWBY, G. The curious art of topiary. *My Gard.* 38: 189-192. Feb. 1949. 80 M995
- 34054 MCKENNA, P. J. In protecting your garden, follow Nature's way. *Horticulture* 26: 414. Nov. 1948. 80 H787
- 34055 MABILLE, Le greffage. *Monit. Agr.* 2(54): 7. Jan. 23, 1949. 14 M744
- 34056 MATTHEWS, B. Can children be taught to love gardening? *New Zeal. Gard.* 5: 204-207. Nov. 1, 1948. 80 N4822
- 34057 MAUMENÉ, A. Jardins et rucher en plein ciel parisien. *Vie à la Campagne* 38: 47-49. Feb. 1949. 80 V67
- 34058 MAURER, E. Die bedeutung der "unterlage" für unsere gärtnerischen kulturpflanzen. *Gartenfreund f. Junggärt.* 1(11): 1-7. Nov. 1948. 80 G1935
- 34059 MERZ, E. Review of 1948. *Pacific Coast Nurseryman* 8: 12-13, 26. Jan. 1949. 80 P116
- California Association of Nurserymen.
- 34060 MUILENBURG, W. J. Adventures with a cold-frame. *Flower Grower* 36: 294-296. Mar. 1949. 80 M72
- 34061 NOURY, C. Soins à donner aux tuteurs. *Soc. d'Hort. et d'Acclim. du Maroc. B.* 33: 150. Fourth Quart. 1948. 87 So1
- 34062 O'ROURKE, F. L. Vermiculite in the cutting bench. *Amer. Nurseryman* 88(9): 10-11, 35. Nov. 1, 1948. 80 Am371
- 34063 PATTERSON, C. F. Methods of developing hardiness and protecting plants against winter killing. *West. Canad. Soc. Hort. Rpt. Proc.* 4: 46A-46D. 1948. 82 W522
- 34064 PEARCE, S. C., and TAYLOR, J. The changing of treatments in a long-term trial. *J. Agr. Sci. [London]* 38: 402-410. Oct. 1948. 10 J822
- Horticultural research.
- 34065 PEDERSEN, A. Horticulture. In *The humanities and the sciences in Denmark*, p. 605-608. Copenhagen, E. Munksgaard, 1948. 330 H882
- 34066 PENINSULA HORTICULTURAL SOCIETY. Transactions, sixty-second annual meeting, held at Dover, Delaware, December 2 and 3, 1948. Dover, Del., 1948. 127 p. 81 P37
- 34067 PENNSYLVANIA. DEPT. OF AGRICULTURE. List of certified nurseries, dealers, & collectors effective October 1, 1948 to September 30, 1949. Pa. Dept. Agr. B. 31(6), 36 p. Nov./Dec. 1948. 2 P38B
- 34068 PROCTER, G. C. Under glass: thoughts on soil block making. *Grower [London]* 31: 153, 157. Jan. 22, 1949. 286.83 M34
- 34069 QUARRELL, C. P. Dutch-light patterns offer wide scope; sow early frame crops now. *Nurseryman & Seedsman* 108: 275-276. Jan. 27, 1949. 80 N933
- 34070 REED, J. O. Wyoming veterans learn about horticulture. *Agr. Ed. Mag.* 21: 204. Mar. 1949. 275.8 Ag8
- 34071 RIVOIRE, A. L'horticulture en Hollande. *Soc. d'Hort. et d'Acclim. du Maroc. B.* 33: 136-138. Fourth Quart. 1948. 87 So1
- 34072 RIVOIRE, P. Progrès réalisés dans la culture potagère et la culture florale. *Réveil Agr.* 58: 54-55. Feb. 15, 1949. 14 R322
- 34073 ROCKWELL, F. F. How to keep pace with your seedlings. *Home Gard.* 13(3): 25-29. Mar. 1949. 80 H756
- 34074 ROSEN, A. Vermiculite conserves soil moisture; horticultural potentialities of well-known insulation material. *Farmer's Weekly [Bloemfontein]* 76: 42-43. Dec. 29, 1948. 24 F225
- 34075 RÖSSLER, P. Leitfaden der hydrokultur (chemische gärten). München, Ehrenwirth, 1948. 35 p. 90.15 R73
- 34076 ROWLES, W. F. How to make a small propagating case. *Pop. Gard.* 50: 471. Feb. 5, 1949. 80 G1622
- 34077 SADLER, G. How to grow really healthy plants. *Pop. Gard.* 50: 480. Feb. 12, 1949. 80 G1622
- 34078 SCHRÖDER, A. Etikettieren der pflanzen unerlässlich! *Gartenfreund f. Junggärt.* 1(12): 6-7. Dec. 1948. 80 G1935
- 34079 SCHROEDER, C. A. Central America—a horticultural Mecca. *Calif. Citrog.* 34: 191, 212-216. Mar. 1949. 80 C125
- 34080 SHING, K. C. A scientific review of the horticulture of Taiwan. (In Chinese.) *Soc. Chin. Trop. Agr. J.* 1: 1-7. Sept. 1948. 26 So14
- English summary.
- 34081 SILVEIRA, G. G. DA. Plant propagation by means of cuttings. 1. (In Portuguese.) *Lavoura* 52: 6-8. July/Aug. 1948. 9.2 L39
- 34082 SIMMONS, G. W., JR. Winter garden-planning. *Wis. Hort.* 39: 157-162. Feb. 1949. 80 W752
- 34083 SIMONS, A. J. Seed-sowing under glass. *Gard. Work Amateurs* 69: 391-393. Jan. 22, 1949. 80 G1627
- 34084 SKINNER, F. L. Highlights of a visit to Sweden. *West. Canad. Soc. Hort. Rpt. Proc.* 4: 61-63. 1948. 82 W522
- 34085 SMITH, F. D. Utilization of solar energy in Norwegian gardening. (In Norwegian.) *Norsk Hagetidend* 65: 32-36. Feb. 1, 1949. 80 N81
- 34086 SMITH, M. Money grows on plants. *Amer. Home* 41(4): 126-127. Mar. 1949. 80 Am313
- 34087 SOUTHWELL, V. G. Versatile vermiculite. *Flower Grower* 36: 232, 261. Mar. 1949. 80 M72
- 34088 SPINKS, J. W. T. The application of radioactive tracers in horticulture. *West. Canad. Soc. Hort. Rpt. Proc.* 4: 58-60. 1948. 82 W522
- 34089 STOUTEMYER, V. T. New mineral products for plant propagation. *Ann. Calif. Spring Gard. Show* 16: 27, 47. 1948. 80 C1282
- Vermiculite and Perlite.
- 34090 STROBL, W. Gärtnerische berufsbildungsmöglichkeiten in der Schweiz. *Gärt.-Kurier* 3(24): 3. Dec. 15, 1948. 80 G1942
- 34091 SWARBRICK, T. The application of science to modern fruitgrowing. (Extr.) *Essex Farmers' J.* 27(12): 21, 23, 25. Feb. 1949. 10 Es72
- 34092 TAWELL, G. H. Good market gardening, or the art of commercial horticulture. London, Hodder and Stoughton, 1948. 160 p. (Teach yourself farming) 91.13 T19
- 34093 THOMPSON, M. M. Some ideas for pruning. *Golden Gard.* 13: 85, 94. Feb. 1949. 80 G56
- 34094 TIEDJENS, V. A. Book knowledge vs actual experience. *Horticulture* 26: 409-410. Nov. 1948. 80 H787
- 34095 TIEDJENS, V. A. Start seedlings early. *Horticulture* 27: 46. Feb. 1949. 80 H787
- 34096 UNION OF SOUTH AFRICA. DEPT. OF AGRICULTURE. Registered nurseries and dealers in plants and trees, 1948-1949. Pretoria, 1948. 20 p. 225 So823
- 34097 WALLER, J. F. What I learned about orchard heating. *Amer. Fruit Grower* 69(3): 19, 28, 30. Mar. 1949. 80 G85
- 34098 WASHINGTON STATE HORTICULTURAL ASSOCIATION. Proceedings of the forty-fourth annual meeting, December 6, 7 and 8, 1948, Yakima, Washington. n. p., 1948. 296 p. 81 W273



34099 WEGER, N. Die bedeutung der schneedecke für feld und garten. Gartenjahr 3: 183-186. Dec. 1948. 80 G1932

34100 WESTERN CANADIAN SOCIETY OF HORTICULTURE. Report of proceedings, fourth annual meeting, Saskatoon, Saskatchewan, March 1st-3rd, 1948. n. p., 1948. 82 p. 82 W522

34101 WIDE range of damage result of early '49 cold; eight preliminary reports indicate tree and crop losses varied from slight to severe. Calif. Agr. [Calif. Sta.] 3(3): 8-11, 14, 16. Mar. 1949. 100 C12Cag

Contents: Subtropical fruits, by K. M. Smoyer; Citrus in Riverside, by C. P. Teague; Slight olive damage, by H. T. Hartmann; Wind machines used, by F. A. Brooks; Truck crops; Caprifig crop reduced, by J. C. Crane; Flower industry, by B. T. Stoutemyer; Deciduous fruit and nuts, by W. P. Tufts.

34102 WOODARD, O. Looking ahead in horticulture. Amer. Soc. Hort. Sci. Proc. 52: 537-541. Nov. 1948. 81 So12

#### Fruits--General

34103 ARAKEL'YAN, U. G. Michurinite varieties in high-mountainous regions of Kirghiz Republic. (In Russian.) Sad i Ogorod 1948(6): 71. June 1948. 87 Sal

Fruit.

34104 BAKER, C. E. Cultural practices in the orchard. Rural New-Yorker 99: 156, 177. Mar. 5, 1949. 6 R88

34105 BAUDEWIJN, J. La culture fruitière au Limbourg. Rev. de l'Agr. 1: 904-908. Nov./Dec. 1948. 13 R322

34106 BLAIR, D. S. How to bud and graft fruit trees. Amer. Fruit Grower 69(3): 14-15, 44-46. Mar. 1949. 80 G85

34107 BOHL, C. Propagación de frutales de carozo o hueso. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr. 15: 29-31. (Cont.) Oct. 1948. 9.8 P4352

34108 BOLOGOVSKAIA, RIMMA PETROVNA. Nastol'naya kniga po sadovodstvu [Reference book on fruit culture]. Leningrad? Leningradskoe Gazetno-Zhurnal'noe i Knizhnoe Izd-vo, 1948. 255 p. 93.28 B63

34109 BORISOGLEBSKII, A. D. Fruit breeders of Estonian SSR. (In Russian.) Sad i Ogorod 1948(6): 32-34. June 1948. 87 Sal

34110 BOS, J. De optimum groeivoorwaarden voor onze fruitgewassen [Optimum growth conditions for our fruit trees]. Wageningen, Veenman, 1948. 96 p. 93 B657

34111 BRANZANTI, E. C. Winter care of plants. (In Italian.) Riv. di Fruttic. 11: 31-33. Jan. 1949. 80 R52

34112 BUDARIN, M., and PALASHENKOV, A. F. Komissarov's creative achievement. (In Russian.) Sad i Ogorod 1948(6): 43-44. June 1948. 87 Sal

Fruit breeding in Siberia.

34113 CARLONE, R. Lagnasco, the fruit El Dorado of the Piedmont. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 200-202. Nov. 15, 1948. 16 C72

34114 CATCHPOLE, N. The merits of grassing down. Amateur Gard. Ann. 1949: 89. 80 Am12

Orchards.

34115 CATCHPOLE, N. Simple pruning. Ed. 3. London, Collingridge, 1948. 128 p. 90.12 C28

34116 CURTIS, C. H. Fruit growing in the 18th century. Grower [London] 31: 449, 451, 453. Mar. 5, 1949. 286.83 M34

34117 DARRAULT, G. Adaptons essences et portegriffes à toutes nos plantations fruitières. J. de la France Agr. 4: 977. Nov. 19/25, 1948. 14 J829

34118 DEVILLERS, P. La conduite des arbres fruitiers suivant la "méthode de l'inclinaison." Foyer Rural [Paris] 11(59): 4. Dec. 12, 1948. 14 F83

34119 DEVILLERS, P. Créons des vergers à grand rendement. Monde Paysan 4(125): 2. Jan. 15, 1949. 14 M742

34120 DEVILLERS, P. Notre production fruitière sera-t-elle décuplée par la méthode de "l'inclinaison." J. de la France Agr. 5: 7. Jan. 7/13, 1949. 14 J829

34121 D'ACHENKO, A. E., and KAS'ANOV, F. M. Orchard development in semideserts. (In Russian.) Sad i Ogorod 1948(8): 15-19. Aug. 1948. 87 Sal

34122 DÖRINGER, O. Wie können wir zur erhaltung der baumbestände beitragen. Gartenjahr 4: 33-34. Feb. 1949. 80 G1932

34123 DUKHANIN, K. S. Planning the development of orchards in the zone of the Kashirskaia Mashinno-Traktornaja Stanitsia. (In Russian.) Sad i Ogorod 1948(7): 37-38. July 1948. 87 Sal

34124 ESCAURIAZA, R. DE. Plantación de frutales. Balearic Isl. Diputación Prov. B. de Agr. 50: 4-5. Nov. 1948. 15 B19

34125 GARNER, R. J. Fruit propagation by layers and cuttings. (Excerpts.) Grower [London] 31: 453, 455-457. Mar. 5, 1949. 286.83 M34

34126 GRÜNBERG, I. P. Raleo de plantas frutales. Bolsa de Cereales, Buenos Aires. Rev. 36(1883): 7. Jan. 27, 1949. 287 B866

34127 HARRIS, J. H. Fruits for the family. South. Agr. 78, 1. e. 79(2): 12. Feb. 1949. 6 So83

34128 HECKENBERGER. Was tut jetzt im obstbau not? Landw. Wchnbl. 138: 449-450. Dec. 18, 1948. 18 L2338

34129 HILKENBÄUMER, F. Obstbau: grundlagen, anbau und betrieb. Ed. 2, rev. Berlin, Parey, 1948. 390 p. 93.26 H542

34130 HILTON, R. J. Grafting fruit trees. Alberta. U. Dept. Plant Sci. Seasonal Notes 34: 7-9. Jan. 8, 1949. 64.9 AL12

34131 HOCHAPFEL, H. Verhütung von keimschädigungen bei obstsämereien durch beachtung ihrer physiologischen eigenart. Bad. Obst- u. Gartenbauer 1(2): 7-8. Nov. 1, 1948. 80 B142

34132 HUGHES, H. M. Dwarf pyramid culture. Amateur Gard. Ann. 1949: 75. 80 Am12

34133 HUGHES, H. M. Reliable soft fruits. Amateur Gard. Ann. 1949: 71. 80 Am12

34134 JAIVENOIS, A. Le buisson; conceptions actuelles de formation. Fruit Belge 17: 27-30. Feb. 1949. 80 F9493

34135 JOHNSON, S. Progress in fruit varieties. Wash. State Hort. Assoc. Proc. 44: 153-156. 1948. 81 W273

34136 JOUGAN, E. Doit-on tailler les arbres fruitiers en les plantant? Acclimatation 76: 7. Jan. 8, 1949. 14 Ac2

34137 JOUGAN, E. Quand et comment prélever les greffons pour les greffages de printemps. Acclimatation 76: 30. Feb. 5, 1949. 14 Ac2

34138 KALMYKOV, S. S. Wild growing fruits of Southern Kazakstan. (In Russian.) Sad i Ogorod 1948(8): 24-27. Aug. 1948. 87 Sal

34139 KARNATZ, H. Die bedeutung des wind-schutzes für den obstbau. Ceres [Hamburg] 1948(11): 7-8. 80 C332

34140 KARNATZ, H. Möglichkeiten der saatgut-gewinnung im obstbau. Ceres [Hamburg] 1948(7/8): 9-11. 80 C332

34141 KARPOV, G. K. Thirty years in the orchards of Siberia. (In Russian.) Sad i Ogorod 1948(6): 37-38. June 1948. 87 Sal

Achievements in fruit breeding by Anatoliĭ Dmitrievich Tiāzhel'nikov.

34142 KEMMER, E. Zur systematik des obstbaumschnittes. Land Wald u. Gart. 3: 166-167. July 1948. 18 L22

34143 KOLESNIKOV, V. A. Care of root system of fruit trees. (In Russian.) Sad i Ogorod 1948(7): 3-7. July 1948. 87 Sal

34144 KÖTTER, E. Richtlinien für die erntearbeiten im gärtnerischen und feldmässigen gemüsebau. Ceres [Hamburg] 1948(9): 13-14; (10): 7-8; (11): 9. (Cont.) 80 C332

34145 KRASNOPEROVA, E. G. Young followers of I. V. Michurin in the struggle for orchard development. (In Russian.) Sad i Ogorod 1948(6): 11-16. June 1948. 87 Sal

34146 LEGHIS, L. M. Les arbres qui produisent et ceux qui ne produisent pas. Paysan Franç. 24(373): 8. Jan. 1949. 14 P29

34147 LEGHIS, L. M. Le greffage des arbres. Paysan Franç. 24(375): 8. Mar. 1949. 14 P29

34148 LEONOR, M. Let marcotted fruit trees pay your farm bills. Agr.-Com.-Indus. Life 11(1/2): 5, 9. Jan./Feb. 1949. 25 Ag8



34149 LEPAGE, P. Comment taillerez-vous vos arbres fruitiers? Vie à la Campagne 38: 9-10. Jan. 1949. 80 V67

34150 LEPAGE, P. Production abondante de fruits de choix. Vie à la Campagne 38: 41-43. Feb. 1949. 80 V67

34151 LIEBERMAN, J. On the establishment of orchards in the Negev. (In Hebrew.) Hassadeh 29: 81-83. (To be cont.) Dec. 1948. 26 H27

34152 LIEBSTER. Das Süddolnburger obstbaugbiet. Ceres [Hamburg] 1948(10): 1-4. 80 C332

34153 LITVINOVA, E. V. New varieties and selected seedlings of fruits and berries. (In Russian.) Sad i Ogorod 1948(6): 77-78. June 1948. 87 Sal

34154 MAKSIMOV, A. I. Progress made in orchard cultivation and problems of the nurseries. (In Russian.) Sad i Ogorod 1948(6): 7-11. June 1948. 87 Sal

34155 MARINUCCI, M. The technique of fruit planting: systems of raising. (In Italian.) Glor. di Agr. 59: 27. Jan. 23, 1949. 16 It1G

34156 MARTIN, K. Astgruppen oder leitaststreuung? Gartenjahr 4: 29-31. Feb. 1949. 80 G1932

Pruning fruit.

34157 MAURER, K. J. Einiges über trocken- und hitze-notstände im obstbau. Land Wald u. Gart. 3: 169-170. July 1948. 18 L22

34158 MIATKOVSKII, O. N. Orchards in Telet'sk Lake region. (In Russian.) Sad i Ogorod 1948(6): 49-51. June 1948. 87 Sal

34159 MIATKOVSKII, O. N. To strengthen the ties between science and production. (In Russian.) Sad i Ogorod 1948(7): 35-37. July 1948. 87 Sal

Achievements of the Altaiskaf Plodovo-fagodna Opytnaf Stanstia in fruit production.

34160 MIATLIK, A. I. Development of fruit trees with their own roots. (In Russian.) Sad i Ogorod 1948(7): 20-22. July 1948. 87 Sal

34161 MÖHRING. Zur frage des stärkeren einbaues des obstbaues in der landwirtschaft. Ceres [Hamburg] 1948(9): 11. (Concl.) 80 C332

34162 MURNEEK, A. E. Why do we prune bearing fruit trees? Mo. State Hort. Soc. Hort. News 1949: 7-10. Feb. 1949. 81 M692H

34163 NATIVIDADE, J. V. Differentiation and evolution of flower buds of fruit trees. (In Portuguese.) Portugal. Junta Nac. das Frutas. B. 8: 359-371. 1948. 286.3939 P83

Summary in English and French.

34164 NEL, R. I. Strengthening the South African fruit industry. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 69, 19 p. Dec. 1947. 87 St3

34165 NOWAK, J. Unter welchen verhältnissen soll man obstbäume im frühjahr pflanzen? Berufsgärt. 2(1): 3-4. Jan. 1949. 80 B463

34166 OVSIANNIKOV, N. V. Fruit growers of Vladivostok. (In Russian.) Sad i Ogorod 1948(6): 40-41. June 1948. 87 Sal

34167 PETERSEN, E. O. Fruit in the home garden. 2. New Zeal. Homes & Gard. 18(8): 17. Nov. 1948. 80 N4823

34168 PITENEV, I. P. Ten years of research [in fruit breeding] of the Novosibirsk Michurin Society. (In Russian.) Sad i Ogorod 1948(6): 36. June 1948. 87 Sal

34169 RASKIN, L. M. Republic's Conference on Fruit and Berry Nurseries. (In Russian.) Sad i Ogorod 1948(6): 79-80. June 1948. 87 Sal

In Russia.

34170 RAT'KOVSKII, S. P. Nonirrigated fruit culture in the mountains of Uzbek SSR. (In Russian.) Sad i Ogorod 1948(8): 76-77. Aug. 1948. 87 Sal

34171 RENAUD, M. Les chantiers-écoles d'arbres fruitiers peuvent permettre à tous les producteurs d'effectuer une taille de qualité à prix réduit. Colon Franç. de Tunisie 59(2082): 1, 4. Jan. 15, 1949. 24 C712

34172 RENNER, F. Vom wachsen und blühen der grösseren baumformen. Landwirtschaft 1948: 359-360. Dec. 20, 1948. 19 L235

Fruit trees.

34173 ROGENT, I. La explotación frutícola. Cult. Mod. 31: 452. Dec. 1948. 15 C89

34174 SCHMIDT, H. Warum noch immer mangel an obstbäumen? Wie steht es um die obstbaumerzeugung? Gartenjahr 4: 26-27. Feb. 1949. 80 G1932

34175 SCHMIDT, H. Zur frage der pflanzabstände im obstbau. Gartenjahr 3: 186-188. Dec. 1948. 80 G1932

34176 SERGIENKO, I. E. Selection work on a collective farm. (In Russian.) Sad i Ogorod 1948(6): 47-48. June 1948. 87 Sal

Fruit.

34177 SHEWELL-COOPER, W. E. Garden walls can pay good dividends if suitable fruits are planted against them. Smallholder 80(2027): 10. Feb. 4, 1949. 10 Sml

34178 SHEWELL-COOPER, W. E. Growing without digging; changes in fruit cultivation are a matter of interest to every grower. Field 193: 103. Jan. 22, 1949. 10 F45

34179 SHEWELL-COOPER, W. E. Increasing root stocks from cuttings. Smallholder 80(2024): 11. Jan. 14, 1949. 10 Sml

Fruit propagation.

34180 SHEWELL-COOPER, W. E. Medlars, mulberries, crabs and quinces. Smallholder 80(2025): 10. Jan. 21, 1949. 10 Sml

Pruning.

34181 SOLOPOV, G. P. Sady [Orchards]. Moskva, Gos. izd-vo kul'turno-prosvetitel'noy lit-ry, 1948. 82 p. 93.28 So42

34182 SOTO, T. Presente y futuro de las frutas en Costa Rica. Suelo Tico 1: 272-276. Oct. 1948. 8 Su2

34183 SPRENGER, A. M., ed. Het leerboek der fruitteelt [Fruit culture manual]. Ed. 5. Zwolle, Tjeenk Willink, 1948. 2 v. 93.25 Sp7

Contributions by J. P. Nieuwstraten, G. de Bakker, E. W. van den Muijzenberg, P. Hus, A. Minderhoud, J. Bos, C. M. van der Slikke, J. J. van Hennik, T. van Hiele, and A. K. Zweede.

34184 TALBERT, T. J. Observations on dwarf fruit trees. Mo. State Hort. Soc. Hort. News 1949: 3. Feb. 1949. 81 M692H

34185 UPSHALL, W. H. Tree fruits and grapes for the home garden. Your Gard. & Home 3: 10-11, 24. Jan. 1949. 80 Y8

34186 WILSON, A. Orchard gardens in the Bay region. Ann. Calif. Spring Gard. Show 16: 19, 47, 50. 1948. 80 C1282

34187 ZMAZNEV, I. S. Michurin Society in the City of Kemerovo. (In Russian.) Sad i Ogorod 1948(6): 34-35. June 1948. 87 Sal

34188 ZUCCHINI, M. Fruit culture in Ferrara. (In Italian.) Humus 4(11): 12-13. Nov. 1948. 16 H88

#### Fruits--Citrus and Subtropical

34189 AUGUSTE, A. Mise en valeur de terrains médiocres par le figuier. Rev. Agr. de l'Afrique du Nord 46: 612-613. Dec. 3, 1948. 80 R326

34190 AVERRETT, W. E. When is the time to tree thin the avocado grove? Calif. Avocado Soc. Ybk. 33: 118-121. 1948. 81 C128

34191 BARRETT, C. The 1948 pilgrimage to Mexico. Calif. Avocado Soc. Ybk. 33: 28-40. 1948. 81 C128

34192 BOHL, C. El cultivo del plátano. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr. 15: 32-36. (Cont.) Oct. 1948. 9.8 P4352

34193 CALIFORNIA AVOCADO SOCIETY. Yearbook, 33, 1948. Los Angeles, 1948. 174 p. 81 C128

34194 CAMERON, J. W., and JOHNSTON, J. C. Nucellar seedlings may permit development of disease-free citrus varieties. Calif. Agr. [Calif. Sta.] 3: 9, 12. Jan. 1949. 100 C12Cag

34195 CASTORENA, M. M. Highlights of the Society tour through Mexico in 1948. Calif. Avocado Soc. Ybk. 33: 45-48. 1948. 81 C128

34196 CHAVANIER, G. Le bananier des Canaries (Musa sinensis) au Maroc. Soc. d'Hort. et d'Acclim. du Maroc. B. 33: 128-130. Fourth Quart. 1948. 87 Sol

34197 CHEVALIER, A. Documents nouveaux sur l'avocatier. Fruits d'Outre Mer 4: 9. Jan. 1949. 80 F9492

34198 CHIKVANAIA, E. E. Avocado culture in Georgian SSR. (In Russian.) Sad i Ogorod 1948(8): 51-52. Aug. 1948. 87 Sal



- 34199 CHRISTIE, A. W. The aims and accomplishments of the California Avocado Society. Calif. Avocado Soc. Ybk. 33: 135-136. 1948. 81 C128
- 34200 COIT, J. E. Mexican explorations of 1948. Calif. Avocado Soc. Ybk. 33: 59-62. 1948. 81 C128
- 34201 COOPER, W. C. The Texas Avocado Society. Calif. Avocado Soc. Ybk. 33: 137-138. 1948. 81 C128
- 34202 CROCE, F. M. Poda del nispero japonés. Rev. Mens. B. A. P. 31(369): 32-33. Aug. 1948. 9 R326
- 34203 CROSBY, J. Utt begins huge nucellar lemon replant program. Calif. Farmer, South. Ed. 190: 124-125. Feb. 12, 1949. 6 C126A
- 34204 EBBOTT, I. E. Passion fruit [Purple granadilla] growing in northeastern Victoria. Victoria. Dept. Agr. J. 46: 508-510. Nov. 1948. 23 V66J
- 34205 ESTRADA, M. Citricultura serrana. Rev. Mens. Illus. B. A. P. 32(373): 73-74, 76-80. Dec. 1948. 9 R326
- 34206 ESTRADA, M. Las paltas de Vacanto. Rev. Mens. Illus. B. A. P. 32(373): 9-13. Dec. 1948. 9 R326
- 34207 FIESTER, D. New avocados from the home of "Fuerte." Calif. Avocado Soc. Ybk. 33: 62-65. 1948. 81 C128
- 34208 FRIEND, W. H. Bringing cold-damaged or otherwise ailing citrus trees back to health. I. Tex. Farming & Citric. 25(8): 4, 18. Feb. 1949. 80 T31
- 34209 FRIEND, W. H. Review of aims, plans and progress in Rio Grande Valley citrus growing. Tex. Farming & Citric. 25(9): 6. Mar. 1949. 80 T31
- 34210 GOMES, P. The culture of purple granadilla. (In Portuguese.) Lavoura 52: 57. July/Aug. 1948. 9.2 L39
- 34211 HALMA, F. F., and WHITE, F. A. Avocado rootstock trials in Santa Barbara County. Calif. Avocado Soc. Ybk. 33: 103-107. 1948. 81 C128
- 34212 HALMA, F. F. Replacing declined and sun-blotched avocado trees. Calif. Avocado Soc. Ybk. 33: 90-92. 1948. 81 C128
- 34213 KUSHNIR, T. The origin of the fig tree and flowering problems. (In Hebrew.) Hassadeh 29: 78-81. (To be cont.) Dec. 1948. 26 H27
- 34214 LOEST, F. C., and NEL, E. A. The papaw and its cultivation. Farming So. Africa 23: 789-794, 814. Dec. 1948. 24 So842
- 34215 LOMBARD, C. A. The cultivation of citrus orchards in the eastern Cape coastal area. Citrus Grower 179: 6-8. Dec. 31, 1948. 80 C495
- 34216 LÓPEZ SOSA, R. Procedimiento que se usa para el trasplante de los cítricos. Agr. Mex. 65: 9-11. Jan. 1949. 8 Ag8
- 34217 MENON, H. B. El cocotero "enano" y sus grandes posibilidades en la América Tropical. Agr. Costarricense 6: 264, 266-268, 273, 275-280, 282-283, 285, 287. (Concl.) Nov./Dec. 1948. 8 Ag895
- 34218 MORETTINI, A. Biological, cultural and economic aspects of the kaki persimmon. (In Italian.) Riv. di Fruttic. 10: 152-164. Oct. 1948. 80 R52
- 34219 NESTERENKO, G. A. For high yields of tea and citrus crops. (In Russian.) Sad i Ogorod 1948(8): 43-49. Aug. 1948. 87 Sa1
- 34220 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF HORTICULTURE. Heavy "drop" of citrus fruit; influence of tree health, by R. J. Benton. Sydney, Tennant, 1948. 2 p. 464.06 N47
- 34221 OLIVEIRA JÚNIOR, A. P. DE. More on the culture of lychee. (In Portuguese.) Chacaras e Quintais 78: 681-682. Dec. 15, 1948. 9.2 C34
- 34222 OPPENHEIMER, H. R. The living-space requirements of citrus trees and the thinning-out problem. (In Hebrew.) Hassadeh 29: 75-78. Dec. 1948. 26 H27
- 34223 POILANE, A. À propos de la greffe des citrus. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 28: 457. Sept./Oct. 1948. 26 R323
- 34224 POPENOE, W., and WILLIAMS, L. O. Mexican explorations of 1948. Calif. Avocado Soc. Ybk. 33: 54-58. 1948. 81 C128
- 34225 PUZZI, D. Some aspects of the culture of the dwarf banana on the São Paulo coast. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 353-356. Nov./Dec. 1948. 9.2 R324
- 34226 RASTEGAEV, P. N. Lemon culture. (In Russian.) Sad i Ogorod 1948(7): 39-40. July 1948. 87 Sa1
- 34227 REBOUR, H. À travers les orangeries marocaines. Fruits et Primeurs de l'Afrique du Nord, Éd. Maroc. 19: 45-47. Feb. 1949. 80 F9482
- 34228 RENAUD, M. Taille des oliviers. Colon Franc. de Tunisie 59(2085): 1, 3. Feb. 5, 1949. 24 C712
- 34229 RUEHLE, G. D. A rapid method of propagating the guava. Calif. Avocado Soc. Ybk. 33: 108-112. 1948. 81 C128
- 34230 SCHROEDER, C. A. Progress report on avocado breeding. Calif. Avocado Soc. Ybk. 33: 71-73. 1948. 81 C128
- 34231 SMOYER, K. Can we afford to grow avocados? Calif. Avocado Soc. Ybk. 33: 124-130. 1948. 81 C128
- 34232 SMOYER, K. M. Care of frost damaged avocado trees. Calavo News 1949: 2-3. Jan. 31, 1949. 280.28 C12
- 34233 STEWART, W. S. Effects on avocados of plant growth regulator sprays. Fruit & Veg. Rev. 9(12): 11, 26. Mar. 1949. 80 C1224
- 34234 TRASK, E. E. Observations on the avocado industry in Mexico. Calif. Avocado Soc. Ybk. 33: 50-53. 1948. 81 C128
- 34235 VENKATARAMANI, K. S. A note on the banana variety, "Moongil." Madras Agr. J. 35: 402-405. Dec. 1948. 22 M262
- 34236 VIL'CHINSKII, N. M. Avocado in Sochi. (In Russian.) Sad i Ogorod 1948(8): 49-51. Aug. 1948. 87 Sa1
- 34237 VINOT, M., and BOUSCARY, A. Le pamplemoussier dans le Midi de la France. Ann. Agron. 18: 570-588. Ref. Sept./Oct. 1948. 14 An75A
- 34238 WHITE, A. Steps in the solution of avocado problems. Calif. Avocado Soc. Ybk. 33: 131-134. 1948. 81 C128
- 34239 WHITE, F. A. Cooperative test plots. Calif. Avocado Soc. Ybk. 33: 116-118. 1948. 81 C128

## Fruits--Deciduous

- 34240 AGULIAN, S. L. Michurinite apple varieties in high-mountainous Armenia. (In Russian.) Sad i Ogorod 1948(6): 70-71. June 1948. 87 Sa1
- 34241 ALDRICH, W. W. Some factors affecting fruit set of Delicious. Mountaineer Grower 19(175): 15, 17-19. Feb. 1949. 80 M86
- 34242 ARAKEL'IAN, U. G. Peaches and apricots at an altitude of 1650 meters. (In Russian.) Sad i Ogorod 1948(7): 75. July 1948. 87 Sa1
- Culture in mountainous sections of the Kirghiz Republic.
- 34243 AUGUSTE. La taille de l'abricotier. Voix des Colons 31(1491): 2. Feb. 14, 1949. 24 V85
- 34244 BARNARD, L. C. Pruning Bartlett pear trees. Calif. Fruit & Grape Grower 3: 26. Jan. 1949. 95.8 G762
- 34245 BATJER, L. P., and THOMPSON, A. H. Three years' results with chemical thinning of apples in the Northwest. Amer. Soc. Hort. Sci. Proc. 52: 164-172. Nov. 1948. 81 So12
- Similar titles in Wash. State Hort. Assoc. Proc. 44: 203-206. 1948. 81 W273; Country Life [Vernon] 33(2): 12-13, 22-23. Feb. 1949. 7 C832
- 34246 BEAR, E. M. Drastic pruning of Morellos. Grower [London] 31: 246-247. Feb. 5, 1949. 286.83 M34
- 34247 BENGTTSSON, B. B. Pierre Corneille. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1949: 21-22. 86 Sv2F
- A pear variety.
- 34248 BENSÁ, S. The Pollard peach. (In Italian.) Gior. di Agr. 59: 37. Jan. 30, 1949. 16 It1G
- 34249 BLACKMON, G. H., DICKEY, R. D., and SHARPE, R. H. Recent developments in Florida peach production. Citrus Indus. 30(3): 18-19. (To be cont.) Mar. 1949. 80 C49
- 34250 BOWMAN, F. T., and others. Hormone sprays for apple crop regulation. 2. Prior research on apple thinning. Agr. Gaz. N. S. Wales 59: 643-647. (Concl.) Dec. 1, 1948. 23 N472
- 34251 BREGGER, J. T. Peach variety incompatibilities on seedlings of a Yunnan understock. Amer. Soc. Hort. Sci. Proc. 52: 141-142. Nov. 1948. 81 So12
- 34252 BREGGER, J. T. Recent advances in growing peaches. Wash. State Hort. Assoc. Proc. 44: 157-159, 161-165. 1948. 81 W273



- 34253 BUSAROV, N. A. Rational methods of harvesting apples. (In Russian.) Sad i Ogorod 1948(8): 5-12. Aug. 1948. 87 Sa1
- 34254 BUSH, R. Some good late apples. Amateur Gard. Ann. 1949: 88. 80 Am12
- 34255 CAMPBELL, R. W. More than thirty peach varieties survived minus thirty-two degrees Fahrenheit. Amer. Soc. Hort. Sci. Proc. 52: 117-120. Nov. 1948. 81 So12
- 34256 CAUWENBERGHE, E. VAN. The names of sour and sweet cherries arranged in groups and strains. (In Flemish.) Tuinbouwberichten 13: 6-7. Jan. 15, 1949. 80 T817
- 34257 CHERNENKO, S. F. "Tul'skoe"—new apple variety. (In Russian.) Sad i Ogorod 1948(6): 16-19. June 1948. 87 Sa1
- 34258 CROWTHER, D. S. Apple and pear cordons. Amateur Gard. Ann. 1949: 74. 80 Am12
- 34259 DARROW, G. M., and others. The nature of giant apple sports and their use in breeding. (Abs.) Amer. Soc. Hort. Sci. Proc. 52: 130. Nov. 1948. 81 So12
- R. A. Gibson, W. E. Toenjes, and H. Dermen, joint authors.
- 34260 DAVIDSON, J. H. Experiences in thinning apples and peaches with sprays. Mo. State Hort. Soc. Hort. News 1949: 12-15. Feb. 1949. 81 M692H
- 34261 DAVISON, J. R. Summer training of stone fruit trees on the Murrumbidgee Irrigation area; effect on winter pruning. Agr. Gaz. N. S. Wales 59: 639-642. (Concl.) Dec. 1, 1948. 23 N472
- Deals with apricots and plums.
- 34262 DOSS, T. Thousand-acre fruit basket. Farm & Ranch 68(2): 6-7. Feb. 1949. 6 T31
- Peach culture on a Texas farm.
- 34263 DREISEITL, H. Zur kronenpflege an unseren obstbäumen. Salzburg. Bauer 3(51): 5-6. Dec. 16, 1948. 19 Sa3
- Pruning.
- 34264 EGE, Die apfelsorte "Brettacher." Bad. Obst- u. Gartenbauer 1(2): 3-4. Nov. 1, 1948. 80 B142
- 34265 ELAGIN, I. N. Cherry trees in the forests of Krasnodar Region. (In Russian.) Sad i Ogorod 1948(8): 75. Aug. 1948. 87 Sa1
- 34266 ENIKEEV, KH. K. Breeding of dwarf rootstocks of stone fruits. (In Russian.) Sad i Ogorod 1948(6): 26-28. June 1948. 87 Sa1
- 34267 EVREINOFF, V. A. Les fruits à pépins; pommier, poirier, cognassier, néflier. Paris, Flammarion, 1948. 245 p. (La Terre, Encyclopédie Paysanne) 93.25 Ev7
- 34268 EVREINOFF, V. A. Le verger en forme rampante pour les pays de latitude ou d'altitude élevées. Rev. Hort. [Paris] (n. s.) 31: 300-304. Oct. 1948. 80 R32
- 34269 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Winter pruning established apple and pear trees. Gt. Brit. Min. Agr. and Fisheries. Adv. Leaflet 336, 5 p. Nov. 1948. 10 G79La
- 34270 GREEN, J. J. Planting of apples and pears. North. Gard. 3: 14-16. Jan. 1949. 80 N816
- 34271 HAVIS, L. Some peach varieties for the Delmarva Peninsula. Peninsula Hort. Soc. Trans. 62: 36-38. 1948. 81 P37
- 34272 HIBBARD, A. D. Are we pruning our peaches too much. Mo. State Hort. Soc. Hort. News 1949: 11. Feb. 1949. 81 M692H
- 34273 HIBBARD, A. D. The effect of severity of pruning on the performance of young Elberta peach trees. Amer. Soc. Hort. Sci. Proc. 52: 131-136. Nov. 1948. 81 So12
- 34274 HJELTNES, K. A. Grafting of fruit trees. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1949: 45-47. 86 N81
- 34275 HOFFMAN, M. B. Chemical thinning of apples and peaches. Mountaineer Grower 19(175): 8-9, 11-14. Feb. 1949. 80 M86
- 34276 HÜBNER, F. W. Zur versorgung mit obstwildlingen. Ceres [Hamburg] 1948(11): 5-6. 80 C332
- 34277 JAIVENOIS, A. L'éducation des pommiers: hautes tiges. Fruit Belge 17: 14-15. Jan. 1949. 80 F9493
- 34278 JOHANSSON, E. New German rootstock clones for pears. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1949: 23-24. 86 Sv2F
- 34279 JOHNSTON, S. The Fairhaven peach. Fruit Varieties & Hort. Digest 4: 3. Spring 1949. 80 F9464
- 34280 JOUGAN, E. Conseils pratiques pour la taille du poirier. Acclimatation 76: 38. Feb. 12, 1949. 14 Ac2
- 34281 KALASHNIKOV, A. P. Plantings of spreading trees in a farmstead orchard. (In Russian.) Sad i Ogorod 1948(7): 40-41. July 1948. 87 Sa1
- 34282 KELEMBET, T. S. Utilization of seedlings of cultivated and local apple varieties as rootstocks. (In Russian.) Sad i Ogorod 1948(7): 16-18. July 1948. 87 Sa1
- 34283 KIESELBACH, A. Die bevorstehenden neupflanzungen im obstbau. Bad. Obst- u. Gartenbauer 1(2): 5-6. Nov. 1, 1948. 80 B142
- 34284 KLEIN, K. Die pflanzung von obstbäumen. Kärntner Bauer 98: 353-354. Nov. 1, 1948. 19 K14
- 34285 LARUE, P. Pêchers et couverture de sol. Arbres et Fruits 35: 26. Jan. 1949. 80 Ar1
- 34286 LEBEDEV, V. V. Formation of fruit trees. (In Russian.) Sad i Ogorod 1948(8): 12-14. Aug. 1948. 87 Sa1
- 34287 LESLEY, J. W. New midseason peach for California. Pacific Coast Nurseryman 8: 11. Jan. 1949. 80 P116
- 34288 LOOSE, H. Der wert der Myrobalana alba [Prunus cerasifera]—pfälzer typ als unterlage. Ceres [Hamburg] 1948(11): 6. Nov. 1948. 80 C332
- 34289 LUNDIN, Y. A few details with regard to pruning. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1949: 12-13. 86 Sv2F
- Fruit trees.
- 34290 MCINTYRE, E. R. Apple breeders seek giant sports. Calif. Farmer, South. Ed. 190: 136. Feb. 12, 1949. 6 C126A
- 34291 MAGOMET, I. IA. Repanka plum. (In Russian.) Sad i Ogorod 1948(6): 74-75. June 1948. 87 Sa1
- Variety of Khar'kov Region.
- 34292 MARGOLIN, A. F. Characteristics of the formation and rooting of dwarf rootstock cuttings. (In Russian.) Sad i Ogorod 1948(8): 22-23. Aug. 1948. 87 Sa1
- Fruit.
- 34293 MARKOV, N. V. Agricultural practices for plum varieties under conditions of Alma-Ata. (In Russian.) Sad i Ogorod 1948(7): 25-27. July 1948. 87 Sa1
- 34294 MARKUS, R. Pollination of apples. (In Portuguese.) Lav. Arroz. 2(22): 21-22. Oct. 1948. 59.8 L39
- 34295 MARTIN, A. Feldbereinigung und obstbau. Bad. Obst- u. Gartenbauer 1(2): 2-3. Nov. 1, 1948. 80 B142
- 34296 MARTIN, L. R. E. After-Christmas apples. Amateur Gard. 65(3375): 17. Jan. 18, 1949. 80 Am13
- 34297 METRAL, R. Nos vieux pommiers. Potasse 23: 32-33. Feb. 1949. 57.8 P84
- 34298 MOISEEV, T. N. Planting of fruit trees in the mountains. (In Russian.) Agrobiologifā 1948(3): 148-150. May/June 1948. 20 Ag822
- In connection with reforestation in Alma-Ata Region.
- 34299 NOVIKOVA, A. N. Stone fruit varieties for preserving in Grozny Region. (In Russian.) Sad i Ogorod 1948(7): 76. July 1948. 87 Sa1
- 34300 PIABOV, I. N. Extensive introduction of peach culture into the orchards of Crimea. (In Russian.) Sad i Ogorod 1948(7): 23-25. July 1948. 87 Sa1
- 34301 PICAZA, J. DE. Cultivo del manzano. Madrid, 1948. 272 p. 93.31 P58
- 34302 PUKHTINSKIĬ, IŪ. E. Transformation of wild growing fruit trees into a cultivated orchard. (In Russian.) Sad i Ogorod 1948(7): 19-20. July 1948. 87 Sa1
- By grafting.
- 34303 PUTOV, V. S. Valuable forms of Canada Plum in mountainous Altai. (In Russian.) Sad i Ogorod 1948(6): 73-74. June 1948. 87 Sa1
- 34304 RETOVSKÝ, R., OPLT, J., and KLECKOVA, V. Preliminary report about the rooting of fruit-tree cuttings. (In Czech.) Českoslov. Akad. Zeměděl. Vest. 22: 485-488. Dec. 15, 1948. 19.5 C332
- English and Russian summaries.
- Experiments with plum trees most successful.



- 34305 ROSSI, L. Considerations on the selection of peach varieties. (In Italian.) Riv. di Fruttic. 10: 149-151. Oct. 1948. 80 R52
- 34306 ROSSI, L. Pruning in peach production. (In Italian.) Riv. di Fruttic. 11: 28-30. Jan. 1949. 80 R52
- 34307 SAAVEDRA ANTEZANA, R. Algunas consideraciones sobre el cultivo del manzano en el Valle de Cochabamba. Agros [Cochabamba] 1: 47-50. Oct. 1948. 9.4 Ag86
- 34308 SACIA, F. What we see in the orchard. Wis. Hort. 39: 175. Mar. 1949. 80 W752
- Apples.
- 34309 SANNAC, G. La production du pruneau dans le sud-ouest. Potasse 23: 4-7. Jan. 1949. 57.8 P84
- France.
- 34310 SCHNEIDER, G. W. Rootstocks for apples. N. J. State Hort. Soc. Hort. News 30: 2129, 2131, 2133. Feb. 1949. 81 N46
- 34311 SCHÜLE, H. Pfirsichverjüngung. Obst- u. Gartenbau 3: 75-76. Dec. 1, 1948. 80 Ob72
- 34312 SERIDKO, A. M., and LISOVENKO, L. T. Seed reserves of the wild fruit species in the Ukraine. (In Russian.) Sad i Ogorod 1948(8): 23-24. Aug. 1948. 87 Sa1
- 34313 SERR, E. F., and PARKS, R. R. Compressed air pneumatic pruning in deciduous orchards. Fruit & Veg. Rev. 9(12): 16, 34. Mar. 1949. 80 C1224
- 34314 SHAND, P. M. Older kinds of apples. I-II. Roy. Hort. Soc. J. 74: 60-67, 88-97. Feb.-Mar. 1949. 84 L84J
- 34315 SHEWELL-COOPER, W. E. To grow good cherries. Field 193: 163. Feb. 5, 1949. 10 F45
- 34316 SMOCK, R. M. A study of maturity indices for McIntosh apples. Amer. Soc. Hort. Sci. Proc. 52: 176-182. Ref. Nov. 1948. 81 So12
- Picking apples for cold storage.
- 34317 SNYDER, J. C. How to prune apple trees. Better Fruit 43(5): 9-10, 13, 16-19, 26. Nov. 1948. 80 B46
- 34318 SOUTHWICK, L. The popular dwarf apple trees. Rural New-Yorker 99: 180-181. Mar. 5, 1949. 6 R88
- 34319 STIRNBERG. Auch die quitte gehört in den bauerngarten. Landw. Wchnbl. f. Westfalen u. Lippe 106: 55. Jan. 22, 1949. 18 L2346
- 34320 STRUCKMEYER, B. E. Studies of the pollination of apples—1948. Wis. Hort. 39: 170, 172. Mar. 1949. 80 W752
- 34321 TETEREV, F. K. Cherries in the North. (In Russian.) Agrobiologiya 1948(3): 33-41. May/June 1948. 20 Ag822
- Breeding in U. S. S. R.
- 34322 TETEREV, F. K. Krasa Severa cherry in Leningrad Region. (In Russian.) Sad i Ogorod 1948(6): 73. June 1948. 87 Sa1
- 34323 TIAZHEL'NIKOV, A. D. To extend the culture of steppe cherries. (In Russian.) Sad i Ogorod 1948(8): 19-21. Aug. 1948. 87 Sa1
- 34324 TITUS, H. Like Johnny Appleseed, Bob Anderson, who made a veritable sand heap a show place, is happiest when he's sharing his orchard enthusiasm and know-how with others. Country Gent. 119(3): 36, 144-146. Mar. 1949. 6 C833
- 34325 TRENKLE, R. Zur frage des süßkirschenanbaues und der vogelkirschen-unterlage. Ceres [Hamburg] 1948(11): 1-5. Nov. 1948. 80 C332
- 34326 TUFTS, W. P. Thirty-five years with deciduous fruit problems. Calif. Farmer, North. Ed. 190: 144-145. Feb. 12, 1949. 6 C126
- 34327 UL'IANISHCHEV, M. M. New varieties of apricots. (In Russian.) Sad i Ogorod 1948(6): 25-26. June 1948. 87 Sa1
- 34328 U. S. PATENT OFF. Plant patent 821. Wickersham, J. A. Peach tree. 2 p., 1 col. pl. Feb. 1, 1949. 156.65 P69
- 34329 WEBER, P. Wechselfälle im obstbau und die nutzanwendung. Bad. Obst- u. Gartenbauer 1(2): 4. Nov. 1, 1948. 80 B142
- 34330 WEEKS, W. D. Further scion and stock combinations with Spy 227. Amer. Soc. Hort. Sci. Proc. 52: 137-140. Nov. 1948. 81 So12
- 34331 ZHAVORONKOV, P. A. New cold resistant varieties of Rennets [apples]. (In Russian.) Sad i Ogorod 1948(7): 32-33. July 1948. 87 Sa1
- 34332 ZNAMENSKII, V. V. Naslednik apple variety. (In Russian.) Sad i Ogorod 1948(6): 71-72. June 1948. 87 Sa1

## Fruits--Small

- 34333 ALEXANDRE, A. J. Posséderez-vous votre vigne familiale ou fermière? Vie à la Campagne 38: 56-57. Feb. 1949. 80 V67
- 34334 ASHTON, C. D. Grapes for the home garden; good varieties make growing easier. Utah Farmer 68(12): 18-19. Feb. 12, 1949. 6 D45
- 34335 BADÍA, V. Los viticultores entran de nuevo en acción después de varios años de relativa quietud. Agr. Levantino 14(169): 7-8. Dec. 1948. 15 Ag85
- Spain.
- 34336 BASTELEUS, R. Les raisins de serres en Belgique. Rev. Hort. [Paris] (n. s.) 31: 322-323. Oct. 1948. 80 R32
- 34337 BASTRIKOV, K. Strawberries in the Enisei North. (In Russian.) Sad i Ogorod 1948(8): 74. Aug. 1948. 87 Sa1
- 34338 BERTELSEN. Black currants. (In Danish.) Haven 49: 37-38. Mar. 1949. 80 H29
- 34339 BONDAR, G. A new graft for European grapes. (In Portuguese.) Chacaras e Quintais 78: 705-706. Dec. 15, 1948. 9.2 C34
- 34340 BRANTINGHAM, J. A. Problems of the large grape growers. Wash. State Hort. Assoc. Proc. 44: 65-67. 1948. 81 W273
- 34341 BRASE, K. D. How to propagate grapes. Amer. Fruit Grower 69(3): 13, 40-42. Mar. 1949. 80 G85
- 34342 BRIGHTWELL, W. T. Propagation of the rabbiteye blueberry. Amer. Soc. Hort. Sci. Proc. 52: 289-293. Nov. 1948. 81 So12
- 34343 BRUNELLI, P. Problems of vineyard reconstruction in the Parina region. (In Italian.) Avvenire Agr. 56: 299-313. Dec. 1948. 16 Av9
- 34344 BUTTERFIELD, H. M. Cane fruits for east Bay gardens. Ann. Calif. Spring Gard. Show 16: 23-24. 1948. 80 C1282
- 34345 CASTELLINI, A. Are reconstituted vines really short-lived? Investigations on plantings more than 30 years old. (In Italian.) Agr. Tosc. 3: 365-372. Dec. 1948. 16 Ag827
- 34346 CHAMBRIER, A. DE. Vue d'ensemble. In Balmer, J. R. Agriculture et viticulture, p. 109-149. Neuchâtel (Suisse), 1948. 33.21 B21
- Swiss viticulture.
- 34347 CHRIST, E. G. Strawberry growing in New Jersey. N. J. Agr. Col. Ext. B. 253, 16 p. Feb. 1949. 275.29 N46
- 34348 CHRIST, E. G. Strawberry varieties for 1949 planting. N. J. State Hort. Soc. Hort. News 30: 2132, 2138-2139, 2141-2142. Feb. 1949. 81 N46
- 34349 CROSBY, J. Santa Maria's strawberries are no accident. Calif. Farmer, South. Ed. 190: 154. Feb. 12, 1949. 6 C126A
- 34350 CUMMINGS, M. B. The berry book; brambles and other berries. Emmaus, Pa., Organic Gard. [1948]. The Gardeners' Book Club, ser. 3, no. 8, 64 p. 56.9 Or3
- 34351 DALMASSO, G. The problem of grafts. IV. (In Italian.) Gior. di Agr. 59: 45. Feb. 6, 1949. 16 It1G
- Grapes.
- 34352 DALMASSO, G. Table grapes. (In Italian.) Humus 4(11): 9-11. Nov. 1948. 16 H88
- 34353 DRAIN, B. D. Tennessee Prolific red raspberry. Tenn. Agr. Expt. Sta. C. 101, 4 p. Dec. 1948. 100 T25S
- 34354 DU TOIT, H. J. The importance of selection of varieties for the South African wine industry. (In Afrikaans.) Wynboer 18(209): 18-23. Feb. 1949. 390.8 W724
- 34355 FAUVART, M. Essais de chauffage électrique pour les greffes-boutures de vigne. Rev. Hort. [Paris] (n. s.) 31: 314-317. Oct. 1948. 80 R32
- 34356 FRANCE, R. A. Starting a new vinery. Amateur Gard. 65(3372): 13. Dec. 28, 1948. 80 Am13



- 34357 FRENCH, A. P. Raspberry growing. Mass. U. Agr. Ext. Leaflet 48, rev., 23 p. Dec. 1948. 275.29 M381L
- 34358 GILSON, H. Cultivez le raisin en serre. Rustica 22: 87, 128. Jan. 30-Feb. 13, 1949. 14 R92
- 34359 GIRARDI, R. J. Rebedelreiser schneiden — von welchen stöcken? Gart.-Z. illus. Flora 72: 13-14. Jan. 1949. 80 G1991
- 34360 GORIACHEVA, N. S. Raspberry varieties for Gor'kiy Region. (In Russian.) Sad i Ogorod 1948(7): 30-31. July 1948. 87 Sa1
- 34361 GRAMOLINI, M. Growing of grapes. (In Italian.) Corriere Agr. 4(4): 1-2. June 20, 1948. 16 C813
- 34362 HALL, C. J. Henry Hall, pioneer grower, a vet of revolutionary war. Cranberries 13(10): 6-8, 22-25. (Cont.) Feb. 1949. 80 C852
- 34363 HARMON, F. N. Some factors affecting the success of green wood grafting of grapes. Amer. Soc. Hort. Sci. Proc. 52: 294-298. Nov. 1948. 81 So12
- 34364 HEINRICHS, P. Die frostempfindlichkeit der brombeere Theodor Reimers. Gartenjahr 3: 193-194. Dec. 1948. 80 G1932
- 34365 HELM, G. W. VAN DER. The culture of strawberries under glass. (In Dutch.) Tuinbouw 4: 8-11. Jan. 1949. 80 T815
- 34366 HUDSON, J. P. New Zealand raspberries. Amateur Gard. 65(3372): 15. Dec. 28, 1948. 80 Am13
- 34367 HURIEZ, H. Le vignoble nantais. Ann. Agron. 18: 528-546. Sept./Oct. 1948. 14 An75A
- 34368 IL'INSKII, A. A. Method of rejuvenating strawberry plantations. (In Russian.) Sad i Ogorod 1948(7): 28-30. July 1948. 87 Sa1
- 34369 JONES, D. F. Better care brings better berries. Home Gard. 13(3): 61-64. Mar. 1949. 80 H756
- 34370 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Kentucky Fruit Notes; special strawberry edition, 4(1), 14 p. Jan. 1949. 100 K41
- 34371 KONOPLEV, V. F. Grape culture in Orlov Region. (In Russian.) Sad i Ogorod 1948(7): 46-47. July 1948. 87 Sa1
- 34372 KRONENBERG, H. G., and others. De aardbei [Strawberries]. Zwolle, Tjeenk Willink, 1949. 327 p. 94.21 K92
- J. D. Gerritsen, C. H. Klinkenberg, M. A. Erkelens, and A. K. Zweede, joint authors.
- 34373 LE ROUX, M. S. Planning a new table-grape vineyard. Farming So. Africa 23: 825-828. Dec. 1948. 24 So842
- Culture and varieties.
- 34374 LONGO, A. Dissension on the subject of table grapes but a solution does not present serious difficulty. (In Italian.) Gior. di Agr. 59: 35. Jan. 30, 1949. 16 It1G
- Varieties.
- 34375 LOOMIS, N. H. 204 grape varieties tested: 18 classed as desirable. Miss. Farm Res. [Miss. Sta.] 11(12): 7. Dec. 1948. 100 M69Mi
- 34376 LOREE, R. E., HUTSON, R., and CATION, D. Strawberry growing in Michigan. Mich. State Col. Agr. B. 297, 33 p. 1948? 275.29 M58B
- 34377 MABILLE, Les hybrides blancs. Monit. Agr. 2(57): 6. Feb. 13, 1949. 14 M744
- Grapes.
- 34378 MALAN, A. H. Hanepoot grapes. West. Prov. Fruit Res. Sta. W. P. Fruit Res. Pop. Ser. 68, 11 p. Feb. 1948. 87 St3
- 34379 MAMELLI, L. La coltivazione del vitigno. Sardegna Agr. 26(42/43): 3. Nov. 21/28, 1948. 16 Sa7
- 34380 MANARESI, A., and others. Observations on grape development on various trees as trellises in Emilia and Veneto. (In Italian.) Riv. di Fruttic. 10: 121-148. Oct. 1948. 80 R52
- A. Calderoni, G. Calderoni, P. Chiarini, F. Faccioli, E. Sintoni, and M. Trevisan, joint authors.
- French and English summaries.
- 34381 MARTIN, K. Beerensträucher müssen geschnitten werden. Bad. Obst- u. Gartenbauer 1(2): 12-13. Nov. 1, 1948. 80 B142
- 34382 MENSIO, C. Present conditions of our grape culture. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 199-200. Nov. 15, 1948. 16 C72

- 34383 MERZHANIAN, A. S. Something new in cultural practices for grapes. (In Russian.) Sad i Ogorod 1948(7): 42-45. July 1948. 87 Sa1
- 34384 MIR, R. M. Rejuvenecimiento de los cultivos arbustivos. Cult. Mod. 31: 454-455. Dec. 1948. 15 C89
- Chiefly grapes.
- 34385 MONTICELLI, F. The Nebbiolo grape. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 232-233. Dec. 31, 1948. 16 C72
- 34386 MORETTI, A. Effects on table grapes and wine grapes of topping in summer. (In Italian.) Riv. di Fruttic. 11: 1-27. Ref. Jan. 1949. 80 R52
- English summary.
- 34387 MÖSE, G. Der erfolgreiche beerenobst-anbau. Ed. 2. Zella/Rhön, Hofmann, 1948. 16 p. 94 M852
- 34388 MÖSE, G. Sommerarbeiten am weinspalier. Land Wald u. Gart. 3: 170. July 1948. 18 L22
- 34389 NEUNER, J. Vorarbeiten für die veredlung. Landwirtschaft 22(1/2): 21. 1949. 19 L235
- Grapes.
- 34390 NOVIKOV, A. A., and BOSAK, D. E. Methods of accelerated propagation of gooseberries. (In Russian.) Sad i Ogorod 1948(8): 27-33. Aug. 1948. 87 Sa1
- 34391 OLDHAM, C. H. Pruning bush fruits. Amateur Gard. Ann. 1949: 70. 80 Am12
- 34392 OLDHAM, C. H. Strawberries in pots. Amateur Gard. 65(3375): 17. Jan. 18, 1949. 80 Am13
- 34393 PARKER, G. B. Grape growing. Wash. State Hort. Assoc. Proc. 44: 61-64. 1948. 81 W273
- 34394 PATTERSON, V. Pruning small fruits. Ohio. Agr. Col. Ext. B. 304, 12 p. Feb. 1949. 275.29 Oh32
- 34395 PEDERSEN, A. Can the expansion of black currant culture be profitable? (In Danish.) Gart. Tid. 65: 25-26. Jan. 19, 1949. 80 G192
- 34396 PEYRONNET, R. Le développement des hybrides en Algérie. V, VIII-IX. Rev. Agr. de l'Afrique du Nord 46: 601-603, 649-653, 666-670. Dec. 3, 24-31, 1948. 80 R326
- Grapes.
- 34397 RATH. Die vermehrung des weinstockes. Gart.-Z. illus. Flora 72: 6-9. Jan. 1949. 80 G1991
- 34398 RECASENS, L. DE. La obra de unos visionarios. Cult. Mod. 31: 444-445. Dec. 1948. 15 C89
- Grape culture.
- 34399 RIVEROS, J. E. Breve historia de la filoxera y del empleo de los portaingertos. Vinos, Viñas y Frutas 44: 281-284. Dec. 1948. 9 Ag89
- 34400 RIVEROS, J. E. La nueva vitivinicultura. Chacra 19(220): 80-81. Feb. 1949. 9 C34
- 34401 ROUSSEL, L. Les caractères des vignes américaines d'après leur origine. Fruits et Primeurs de l'Afrique du Nord, Éd. Maroc. 19: 50-51. Feb. 1949. 80 F9482
- 34402 RUBIN, S. M. For the further advancement of grape culture. (In Russian.) Sad i Ogorod 1948(8): 36-38. Aug. 1948. 87 Sa1
- 34403 SCHÜTZE, P. Wir legen erdbeerbeete an. Kleingärt. u. Siedler 2: 84. Aug. 1948. 80 K67
- 34404 SEATON, H. E. Choice gooseberries that don't straggle. Guild Gard. 24(2): 3-4. Feb. 1949. 80 G94
- 34405 SHOEMAKER, J. Raspberries are profitable for us. Amer. Fruit Grower 69(3): 38-39. Mar. 1949. 80 G85

## Nuts

- 34406 SIMONOVA, M. N. Cause of infertility in Koralka strawberry variety. (In Russian.) Sad i Ogorod 1948(8): 73. Aug. 1948. 87 Sa1
- 34407 SLATE, G. L. Strawberry culture. Rural New-Yorker 99: 160, 161. Mar. 5, 1949. 6 R88
- 34408 SMITH, H. Bumper crops of black currants every year. Pop. Gard. 50: 460. Jan. 29, 1949. 80 G1622
- 34409 TALIAFERRO, P. Building a grape empire. Farm & Ranch 68(2): 14. Feb. 1949. 6 T31
- Cultivation in Montague County, Texas.
- 34410 VOLUZNEV, A. G. Self-fertility of black currants. (In Russian.) Sad i Ogorod 1948(8): 33-34. Aug. 1948. 87 Sa1



- 34411 WERNER, W. Pflanzte wieder mehr erdbeeren. Ceres [Hamburg] 1948(7/8): 11-12. 80 C332
- 34412 WETTSTEIN, H. Wilde johannisbeeren in Tirol. Berufsgärt. 1(11): 2. Nov. 1948. 80 B463
- 34413 YEAGER, A. F. New development in raspberries. Fruit Varieties & Hort. Digest 4: 4-6. Spring 1949. 80 F9464
- 34414 ALLAMAN, R. P. Planting of nut trees on highways undesirable. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 113-114. 1948. 94.69 N81
- 34415 BEARD, E. Good nut trees for the North. Home Gard. 13(3): 38-42. Mar. 1949. 80 H756
- 34416 BERNATH, S. Observations on hardiness of the Carpathian walnuts at Poughkeepsie, New York. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 106-107. 1948. 94.69 N81  
Includes discussion.
- 34417 CARNEVALE, J. A. Arboles de frutos secos. IV. El castaño. Pampa Argentina 22(256): 6-7. Dec. 1948. 9 P19
- 34418 CHASE, S. B. Test plantings of Thomas black walnut in the Tennessee Valley. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 60-68. 1948. 94.69 N81
- 34419 CORBET, C. Why is there no nut research? Fruit-Grower 107: 229-230. Feb. 24, 1949. 80 F941
- 34420 FILMAN, O. Nut trees hardy at Aldershot, Ontario, Canada. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 45-48. 1948. 94.69 N81
- 34421 GAULT, A. Plantons des noyers. Monit. Agr. 1(50/51): 4. Dec. 25, 1948/Jan. 1, 1949. 14 M744
- 34422 GLENN, E. M. Interested in walnuts? Cultural difficulties explained. Fruit-Grower 107: 287-288. Mar. 10, 1949. 80 F941
- 34423 GLENN, E. Should walnuts be planted? Amateur Gard. 65(3378): 16. Feb. 8, 1949. 80 Am13
- 34424 GRAVES, A. H. Breeding chestnut trees: report for 1946 and 1947. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 85-91. 1948. 94.69 N81
- 34425 GUILLAUME, A. Récolte et conservation des châtaignes. Nature [Paris] 3165: 11-12. Jan. 1949. 473 N21
- 34426 HEMMING, E. S. The Hemming Chinese chestnuts. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 79-82. 1948. 94.69 N81  
Includes discussion.
- 34427 HERSHEY, J. W. Nut trees in your backyard for food and beauty. Horticulture 26: 419. Nov. 1948. 80 H787
- 34428 HERSHEY, J. W. Tree crop and nut notes from southern Pennsylvania. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 116-119. 1948. 94.69 N81
- 34429 HODGSON, R. E. Nuts about trees. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 108-110. 1948. 94.69 N81
- 34430 HOLLISTER, W. N. Paynes produce at Santa Barbara. Diamond Walnut News 31(2): 13. Mar. 1949. 94.68 D34
- 34431 HOWES, F. N. Nuts: their production and everyday uses. London, Faber and Faber, 1948. 264 p. Ref. 94.6 H83
- 34432 JONES, G. S. Chinese chestnuts in the Chattahoochee Valley. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 92-94. 1948. 94.69 N81
- 34433 KALMYKOV, S. S. Valuable variety of walnuts. (In Russian.) Sad i Ogorod 1948(7): 76. July 1948. 87 Sa1
- 34434 KORN, G. J. Importance of bud selection in the grafting of nut trees. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 78-79. 1948. 94.69 N81
- 34435 LAHTI, M. Nut notes from New Hampshire. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 52-55. 1948. 94.69 N81
- 34436 MACDANIELS, L. H., and ATWOOD, S. S. A simplified schedule for judging black walnut varieties. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 55-60. Ref. 1948. 94.69 N81
- 34437 MCKAY, J. W. Results of a Chinese chestnut rootstock experiment. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 83-85. 1948. 94.69 N81
- 34438 MATTOON, H. G. Nut growing for the farm owner. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 114-116. 1948. 94.69 N81
- 34439 NORTHERN NUT GROWERS ASSOCIATION. Annual report, 38, 1947. Nashville, Tenn., 1948. 129 p. 94.69 N81
- 34440 PHILIPPIS, A. DE. Expand walnut culture. (In Italian.) Ital. Forest. e Mont. 3: 380-381. Nov./Dec. 1948. 99.8 It12
- 34441 REED, C. A. Ever better varieties is need of chestnut industry. Peanut J. & Nut World 28(5): 29, 62-66. Mar. 7, 1949. 77.8 P313
- 34442 ROSBOROUGH, J. F., BRISON, F. R., and SMITH, C. L. Pecan orchard management. Tex. Agr. Col. Ext. B. 162, 15 p. 1948. 275.29 T312
- 34443 SCHNEIDERS, E. "Papiernüsse" und "meisennüsse." Obst- u. Gartenbau 3: 73. Dec. 1, 1948. 80 Ob72  
Abnormalities in walnuts.  
Also in Gartenjahr 4: 20-23. Feb. 1949. 80 G1932
- 34444 SCHNEIDERS, E. F. Der neuzeitliche walnussbau; die walnuss als obst-, strassen-, park- und waldbaum; die methoden der walnuss-haus- und freilandveredlung. Ed. 2. Stuttgart, Ulmer, 1948. 127 p. (Grundlagen und Fortschritte im Garten- und Weinbau. 62) 99.35 Sch5
- 34445 SLATE, G. L. Some results with filbert breeding at Geneva, N. Y. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 94-100. 1948. 94.69 N81
- 34446 SMITH, G. L. Experience with the Crath Carpathian walnuts. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 104-106. 1948. 94.69 N81
- 34447 STEARNS, M. Better plant a few nut trees. Country Gent. 119(3): 26, 132. Mar. 1949. 6 C833  
Varieties and culture.
- 34448 STRONG, W. J. Nut growing at the Horticultural Experiment Station, Vineland, Station, Ontario. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 39-43. 1948. 94.69 N81
- 34449 TUTTLE, H. L. A method of budding walnuts. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 74-77. 1948. 94.69 N81  
Includes discussion.
- 34450 U. S. DEPT. OF AGRICULTURE. OFF OF INFORMATION. Nuts for Christmas and other times, by H. L. Crane, M. Wood, A. Frew, and others. Washington 1948. 7 p. 1.914 R2R11  
Includes culture and varieties.
- 34451 WHITEHOUSE, W. E., and JOLEY, L. E. Notes on the growth of Persian walnut propagated on rootstocks of the Chinese wing-nut Pterocarya stenoptera. Amer. Soc. Hort. Sci. Proc. 52: 103-106. Nov. 1948. 81 So12
- 34452 WILKINSON, J. F. Experiences of a nut tree nurseryman. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 70-72. 1948. 94.69 N81  
Includes discussion.

#### Shade trees and Ornamental Plants

- 34453 ALLEN, H. T. Germination requirements of seeds of trees and shrubs. West. Canad. Soc. Hort. Rpt. Proc. 4: 26-29. Ref. 1948. 82 W522
- 34454 ALPINE GARDEN SOCIETY. Yearbook, 1949. Farnborough, Kent, 1949. 104 p. 84 AL6Y
- 34455 ALTWATER, A. S. Meet Amphidasis cognataria. Horticulture 26: 426. Nov. 1948. 80 H787
- 34456 AMERICAN DELPHINIUM SOCIETY. Delphinium, 1948. Euclid, Ohio, 1948. 124 p. 96.527 Am3D
- 34457 ANDERSON, G. W. Problems and duties of a shade tree commission. N. J. Fed. Shade Tree Comms. Monthly B. 21(11): 2-5. Nov. 1948. 99.8 Sh1
- 34458 ANDREWS, W. S. Glads are personalities. New England Gladiolus Soc. Gladiolus 24: 56-58. 1949. 96.43 N44
- 34459 ANDRIST, R. K. Your lawn—feed, seed, and repair now. Better Homes & Gard. 27(7): 46-47. Mar. 1949. 80 F9424
- 34460 ANLEY, G. Iris junonia. Iris Ybk. 25: 47. 1948. 84 Ir4
- 34461 ANLEY, G. G. Irises, their culture and selection. Rev. and enl. London, Collingridge, 1948. 117 p. 96.45 An6
- 34462 ANNUAL California spring garden show, 16, April 27-May 2, 1948. Oakland, 1948. 68 p. 80 C1282



- 34463 ARNOLD, R. E. *Pleurothallis ornata*. Orchid Rev. 57: 23-24. Feb. 1949. 80 Or15
- 34464 ARNOLD-FORSTER, W. Shrubs for the mild-er counties. London, Country Life, 1948. 367 p. 97.3 Ar6
- 34465 ARNOLD-FORSTER, W. Spectacular Mag-nolias. Gard. Illus. 66: 46-47. Mar. 1949. 80 G169
- 34466 BAILEY, R. Planning comes second; first you've got to decide what to plan for. Home Gard. 13(3): 17-20. Mar. 1949. 80 H756
- 34467 BAIRD, B. M. Roses for southern gardens. Chapel Hill, U. N. C. Press, 1948. 96 p. 96.1 B16
- 34468 BALLAND, R. À propos de l'orthographe de Camellia. Feuille des Nat. (n. s.) 2: 60. May/June 1947. 410 F432
- 34469 BALLAND, R. Sur l'origine du mot Hortensia. Feuille des Nat. (n. s.) 2: 62. May/June 1947. 410 F432
- Hydrangea.
- 34470 BAMFORD, D. Florists' flowers. Amer. Primrose Soc. Q. 6: 33-46. Jan. 1949. 96.575 Am3
- 34471 BARDWELL, N. An orchid for my lady. Cornell Countryman 46(5): 5. Feb. 1949. 6 C81
- 34472 BARNES, A. T. The elusive show Dahlia. Amateur Gard. 65(3372): 8. Dec. 28, 1948. 80 Am13
- 34473 BARNES, A. T. The newer Dahlias. Gard. Illus. 66: 51-52. Mar. 1949. 80 G169
- 34474 BARNES, A. T. Propagation of Dahlias. Amateur Gard. 65(3378): 12. Feb. 8, 1949. 80 Am13
- 34475 BARRETT, M. F. An outmoded tree, some thoughts on the rubber plant of yesteryear. N. Y. Bot. Gard. J. 50: 33-35. Feb. 1949. 451 N48J
- 34476 BAUMAN, J. R. The tuberous Begonia, its colorful addition to your garden. Begonian 16: 29-30. Feb. 1949. 96.511 B39
- 34477 BAWDEN, H. E. Alpine cushion plants. My Gard. 38: 165-166. Feb. 1949. 80 M995
- Arenaria parnassica* and *Scleranthus biflorus*.
- 34478 BAZDORF, A. Growing those expensive bulblets. North Amer. Gladiolus Council. B. 17: 41-42. Mar. 1949. 96.43 N81
- 34479 BAZDORF, A. Some thoughts on show manage-ment. North Amer. Gladiolus Council. B. 17: 21-22. Mar. 1949. 96.43 N81
- 34480 BEDBROOK, C. The Iris calendar. Iris Ybk. 25: 52-56. 1948. 84 Ir4
- 34491 BEHREND, D. S. *Begonia lucerna*. Be-gonian 16: 30-31. Feb. 1949. 96.511 B39
- 34492 BEKHMANN, L. V. Winter covering of roses in the ground in the central regions of U. S. S. R. (In Russian.) Sad i Ogorod 1948(7): 48-51. July 1948. 87 Sa1
- 34483 BERG, H. Überwinterung von blumenzwiebeln und knollen. Neue Mitt. f. die Landw. 3: 373. Nov. 5, 1948. 18 N39
- 34484 BERGE, J. S. Magnetic Island orchids. Austral. Orchid Rev. 13: 108. Dec. 1948. 80 Au73
- 34495 BERRY, MRS. C. F. Choose flowers for fragrance, have a nose garden. Horticulture 27: 113-114. Mar. 1949. 80 H787
- 34486 BERTRAM, E. L. Chrysanthemums as I grow them. Natl. Chrysanthemum Soc. B. 4(4): 1-2. Fourth Quart. 1948. 96.519 Ea7
- 34487 BIDDLE, D., and BLOM, D. The story of an impressionist. Flower Grower 36: 210, 212. Mar. 1949 80 M72
- Flower arrangement.
- 34488 BIES, W. H. Why a local rose society? Amer. Rose Mag. 8: 145. Jan./Feb. 1949. 80 Am327A
- 34499 BISHOP, F. W. Growing good Delphiniums. Amateur Gard. Ann. 1949: 73. 80 Am12
- 34490 BLACKBURN, B. Distinctive shrubs. (Abs.) Hort. Soc. N. Y. Monthly B. 20: 15-17. First Quart. 1949. 81 N482M
- 34491 BLACKBURN, B. Plant for permanence, Alabama Fothergilla. Flower Grower 36: 206, 208-209. Mar. 1949. 80 M72
- 34492 BODE, L. Cultures florales marocaines; la préparation de plantes bulbeuses au forçage. Petit Casa-blancs 30, i. e. 32(1356): 6. Mar. 6, 1948. 280.8 P44
- 34493 BOMMELJE, C. Cactus from seed. (In Dutch.) Succulenta 1949: 13. Jan./Feb. 1949. 450 Su12

- 34494 BREDDY, N. C. How to grow good Gloxinias. Amateur Gard. Ann. 1949: 86. 80 Am12
- 34495 BROMLEY, S. W. Why I like the white pine. Trees [Cleveland] 9(2): 6-7. Jan./Feb. 1949. 99.8 W52
- 34496 BRYDON, P. H. Rhododendrons for the Pacif-ic Coast. Ann. Calif. Spring Gard. Show 16: 14, 29-31. 1948. 80 C1282
- 34497 BUCKLEY, A. Auratums love company. Your Gard. & Home 3(2): 13, 19. Feb. 1949. 80 Y8
- 34498 BURDETT, J. H. How to raise flowers from seed. Flower Grower 36: 230-232, 262-264. Mar. 1949. 80 M72
- 34499 BUXTON, B. R. Begonias for the window garden. Organic Gard. 14(3): 22-25. (To be cont.) Mar. 1949. 56.8 Or3
- 34500 CARESS, U. *Davallia canariensis*. Begonian 16: 35. Feb. 1949. 96.511 B39
- 34501 CARLÉE, H. The Dahlia year in Holland. Dahlia 17(2): 7-8, 45. Dec. 1948. 80 D133
- 34502 CARLETON, R. M. Geraniums. Country Gent. 119(3): 169, 181. Mar. 1949. 6 C833
- Propagation and culture.
- 34503 CARTER, J. E. Tuberous Begonias. Your Gard. & Home 3(2): 9, 19. Feb. 1949. 80 Y8
- 34504 CARTER, R. C. Growing Glads. Horticul-ture 27: 64-65. Feb. 1949. 80 H787
- 34505 CASON, J. F. Top blooms among the lighter colored glads. Ill. Gladiolus Soc. Notebook 7: 4-7. Dec. 1948. 96.43 IL6N
- 34506 CASTBERG, K. S. Room azalea [*Rhododendron indicum*]. (In Norwegian.) Norsk Hagetidend 64: 225-227. Dec. 1948. 80 N81
- 34507 CAVE, N. L., FOTHERGILL, H. S., and PILKINGTON, G. L. Commentaries in variety. Iris Ybk. 25: 123-127. 1948. 84 Ir4
- 34508 CAYEUX, L. L'ornementation florale de plein air dans les jardins publics. Jard. de France (ser. 7) 3: 9-20. Jan. 1949. 86 So13
- 34509 CHOQUET, A. Les Iris. Jard. Ouvrier de France 1948: 3. July/Aug. 1948. 80 J283
- 34510 CLAYTON, MRS. F. Growing Chrysanthemums in Tennessee. Natl. Chrysanthemum Soc. B. 4(4): 23-24. Fourth Quart. 1948. 96.519 Ea7
- 34511 COLVIN, B. Land and landscape. London, Murray, 1948. 266 p. 98 C73
- 34512 COMBER, H. F. The light hybrids: a beauti-ful new race of Peruvian lilies. Amateur Gard. Ann. 1949: 12. 80 Am12
- Alstroemeria ligula*.
- 34513 CONNAH, H. H. Lupins of fame. Amateur Gard. Ann. 1949: 13. 80 Am12
- 34514 CONTRÉ, E. Un nouvel hybride d'Amarantus : *Amarantus ralleii* E. Contré (*A. retroflexus* L.  $\times$  *A. bouchonii* Thell.). Feuille des Nat. (n. s.) 2: 11. Jan. 1947. 410 F432
- 34515 COOK, L. Some good Australian plants. Amateur Gard. 65(3372): 10. Dec. 28, 1948. 80 Am13
- 34516 COOK, L. J. The graceful Abutilons. Ama-teur Gard. 65(3376): 10. Jan. 25, 1949. 80 Am13
- 34517 COOK, M. L. Chinese fleece vine, *Polygonum auberti*. Back Eden 15(5, i. e. 6): 7. Feb. 1949. 80 B12
- 34518 CORBETT, M. A. Irises in Argentina. Iris Ybk. 25: 41-47. 1948. 84 Ir4
- 34519 CORLISS, P. G. Gladiolus fever (virulent form). North Amer. Gladiolus Council. B. 17: 25, 27, 29. Mar. 1949. 96.43 N81
- 34520 CORREVON, A. Most popular of alpine, the gracious gentians. Horticulture 26: 418. Nov. 1948. 80 H787
- 34521 CORY, MRS. R. N. Rose planting program in Richmond, Indiana. Amer. Rose Mag. 8: 148. Jan./Feb. 1949. 80 Am327A
- 34522 COUTTS, J. Winter flowering shrubs. Roy. Hort. Soc. J. 74: 97-104. Mar. 1949. 84 L84J
- 34523 COYSH, A. W., ed. Birds, beasts and flowers. Worcester, Eng., Littlebury, 1948. 148 p. 409 C832
- 34524 CRANE, H. H. Raising and growing Violas. Amateur Gard. Ann. 1949: 67. 80 Am12
- 34525 CURTIS, R. W. Landscape plants colorful in winter. Cornell Plantations 5: 19-25. Winter 1948/49. 409.6 C812



- 34526 CUTAK, L. What is a succulent? Cactus and Succulent J. 21: 10-14. Jan./Feb. 1949. 451 C11
- 34527 DAKERS, J. S. Charm Chrysanthemums. Gard. Illus. 66: 49. Mar. 1949. 80 G169
- 34528 DAKERS, J. S. Tuberous-rooted Begonias. Amateur Gard. 65(3375): 13. Jan. 18, 1949. 80 Am13
- 34529 DANKS, F. M. Australian notes. Iris Ybk. 25: 108-110. 1948. 84 Ir4
- 34530 DAVIS, J. J. Some shade tree problems. Natl. Shade Tree Conf. Proc. 24: 90-94. 1948. 99.9 N218
- 34531 DAVIS, R. S. The genus *Staurosis*. Orchid Digest 12: 267-268. Nov./Dec. 1948. 80 Or172
- 34532 DAY, H. A. Easy to grow, steady demand. Smallholder 80(2029): 9. Feb. 18, 1949. 10 Sml
- Primula culture.
- 34533 DEGENER, O., and HAWKES, A. V. Shaving-brush rose [*Eugenia jambos*]. Horticulture 27: 106. Mar. 1949. 80 H787
- 34534 DEIGHTON, G. M. Success with border carnations. New Zeal. Gard. 5: 180-181. Nov. 1, 1948. 80 N4822
- 34535 DELPLACE, E. Pour rendre plus gaie la maison pendant la période hivernale, cultivons quelques oignons à fleurs en appartement. Acclimatation 76(1): 2. (Concl.) Jan. 1, 1949. 14 Ac2
- 34536 DICKINSON, L. S. Lawn management. Mass. U. Agr. Ext. Leaflet 85, rev., 14 p. Oct. 1948. 275.29 M381L
- 34537 DILL, M. H. Importance of landscape architecture in community planning. Washington? 1949. 4 p. 98.5 D58I
- 34538 DILLON, G. W. West Coast tour. Amer. Orchid Soc. B. 17: 716-717. Dec. 1948. 80 Am329
- Orchids in Florida.
- 34539 DILLON, J. L. Living with 150 Camellias. Flower Grower 36: 200, 202. Mar. 1949. 80 M72
- 34540 DOBYNS, W. S. The potted garden. Golden Gard. 13: 64, 69, 73. Jan. 1949. 80 G56
- 34541 DORAN, W. L. Plant that "back walk" with low-growing shrubs. Flower Grower 36: 272-273. Mar. 1949. 80 M72
- 34542 DORMON, C. Adventures in Louisiana Irises. Iris Ybk. 25: 83-86. 1948. 84 Ir4
- 34543 DORMON, C. Three beautiful Texas shrubs. Home Gard. So. 9: 54-55. Mar. 1949. 80 H755
- Berberis trifoliata*, *Sophora secundiflora* and *Leucophyllum texanum*.
- 34544 DORRANCE, A. Legends of the lilac. Flower Grower 36: 260. Mar. 1949. 80 M72
- 34545 DORT, H. W. V. Gloxinia's. (In Dutch.) Bloemisterij 23(5): 3-4. Feb. 4, 1949. 80 B624
- 34546 DOUGLAS, G. Lengthening the Iris season. Iris Ybk. 25: 48-51. 1948. 84 Ir4
- 34547 DRAYSON, G. F. Dahlias in England. Dahlia 17(2): 3-5. Dec. 1948. 80 D133
- 34548 DREWETT, A. W. Some recent introductions and new seedlings. Iris Ybk. 25: 57-67. 1948. 84 Ir4
- 34549 DU COURTILS, C. La splendeur hivernale des Cyclamens de Perse. Vie à la Campagne 38: 7-8. Jan. 1949. 80 V67
- 34550 DUNCOMB, M. Easy annuals we all can grow. Back Eden 15(5, 1. e. 6): 7-8. Feb. 1949. 80 B12
- 34551 DUNHAM, C. W., and ROBERTS, R. H. Notes on growth habits and pinching of Hydrangeas. Amer. Soc. Hort. Sci. Proc. 52: 525-527. Nov. 1948. 81 So12
- 34552 DUNN, A. C. Turf problems in cemetery operation. Greenkeepers' Rptr. 17: 5-7. Jan./Feb. 1949. 60.18 G83
- 34553 DUPHORNE, J. How to have bigger and better Begonias. Successful Farming 47(2): 108-109. Feb. 1949. 6 Su12
- 34554 DUPHORNE, J. You can grow a lawn to brag about. Successful Farming 47(3): 43, 176, 177. Mar. 1949. 6 Su12
- 34555 EASTWOOD, A. How to press orchids. Orchid Digest 12: 267. Nov./Dec. 1948. 80 Or172
- 34556 EBERLE, G. Porst [*Ledum palustre*] und gägel [*Myrica gale*]. Natur u. Volk 78: 164-170. Dec. 1, 1948. 509 F856
- 34557 ELKAN, E. Botanical adventure. Cactus & Succulent J. Gt. Brit. 11: 8-9. Jan. 1949. 450 C113
- Cultivation of *Euphorbia lathyris*.
- 34558 ELLIOTT, D. Meet the witch-hazel family [Hamamelidaceae]. New Zeal. Gard. 5: 196-198. Nov. 1, 1948. 80 N4822
- 34559 ELLIOTT, D. New Zealand shrub. Horticulture 26: 430. Nov. 1948. 80 H787
- Leucospermum reflexum*.
- 34560 ENE DE PIRO, M. Funkias et Hemerocalles. Réveil Agr. 57: 374-375. (Cont.) Dec. 15, 1948. 14 R322
- 34561 ESDALE, K. M. Grow tuberous Begonias from seed. Your Gard. & Home 3: 17. Jan. 1949. 80 Y8
- 34562 EVANS, H. O. Pioneering—color value ratings New England Gladiolus Soc. Gladiolus Mag. 13: 26-28. Feb. 1949. 96.43 N44
- 34563 EVERETT, T. H. Plant portraits [*Hippeastrum procum*]. Gard. Chron. Amer. 53: 68-69. Mar. 1949. 80 G1632
- 34564 EVISON, J. R. B. The Aquilegias. Amateur Gard. 65(3376): 11. Jan. 25, 1949. 80 Am13
- 34565 EVISON, J. R. B. Cistus and Genistas. Amateur Gard. 65(3375): 11. Jan. 18, 1949. 80 Am13
- 34566 EVISON, J. R. B. Climbers for rapid results. Amateur Gard. 65(3372): 9. Dec. 28, 1948. 80 Am13
- 34567 EVISON, J. R. B. A garden where the sun never penetrates. Amateur Gard. Ann. 1949: 66. 80 Am12
- 34568 EVISON, J. R. B. Shrubs for the seaside. Amateur Gard. 65(3374): 12. Jan. 11, 1949. 80 Am13
- 34569 FAIRBURN, D. C. That first year of growing orchids in Florida. Amer. Orchid Soc. B. 17: 701-702. Dec. 1948. 80 Am329
- 34570 FERRY, E. S. Flower compositions for the home in eastern Asia. II. Development of flower art in Japan. N. Y. Bot. Gard. J. 50: 25-33. Feb. 1949. 451 N48J
- 34571 FISK, A. Notes on *Iris kaempferi*. Iris Ybk. 25: 121-122. 1948. 84 Ir4
- 34572 FISK, G. M. The Iris out of the garden. Iris Ybk. 25: 71-74. 1948. 84 Ir4
- 34573 FORSBERG, J. L. Results of disease control tests in 1948. III. Gladiolus Soc. Notebook 7: 8-10. Dec. 1948. 96.43 IL6N
- 34574 FOSTER, W. J. So. Australia shows. New England Gladiolus Soc. Gladiolus Mag. 13: 36, 38, 40, 42, 44, 46, 48, 50, 52. Feb. 1949. 96.43 N44
- 34575 FRASER, D. M. Confusion among Camellias. New Zeal. Gard. 5: 171-172. Nov. 1, 1948. 80 N4822
- 34576 FREE, M. Gloxinias for indoor color. Home Gard. 13(3): 56-60. Mar. 1949. 80 H756
- 34577 FRIEDRIGER, W. Clematis und ihre vermehrung. Gärt.-Kurier 3(24): 1-2. Dec. 15, 1948. 80 G1942
- 34578 FRIERSON, W. C. A new interest in holly. Gard. Gateways 18(4): 1-2. Dec. 1948. 90.32 G166
- 34579 GAARDER, P. I. Perennials. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1949: 10-17. 86 N81
- 34580 GALLAGHER, J. Pruning of roses. Golden Gard. 13: 88, 95. Feb. 1949. 80 G56
- 34581 GALLAGHER, J. S. For autumn charm, plant Japanese Anemones. Flower Grower 36: 244-245, 276-277. Mar. 1949. 80 M72
- 34582 GILBUT, C. J. Know what you are doing before you do it. Horticulture 27: 48, 69. Feb. 1949. 80 H787
- Pruning trees and shrubs.
- 34583 GODDARD, J. H. Border Chrysanthemums grown for exhibition. Amateur Gard. Ann. 1949: 93. 80 Am12
- 34584 GODDARD, J. H. Chrysanthemums—looking ahead. Amateur Gard. 65(3375): 10. Jan. 18, 1949. 80 Am13
- 34585 GORDON, E. T. Hardy Cyclamen. Amateur Gard. Ann. 1949: 22. 80 Am12
- 34586 GORDON, E. T. Poppies from many countries. Amateur Gard. 65(3375): 12-13. Jan. 18, 1949. 80 Am13
- 34587 GRANT, J., and GRANT, C. The right and wrong of using conifers. House Beautiful 91(3): 116-117, 202-203. Mar. 1949. 296.8 H81
- Landscaping.
- 34588 GRAVES, G. Evergreen Rhododendrons. Amer. Nurseryman 88(9): 14, 58-60. Nov. 1, 1948. 80 Am371



34589 GREEN, A. E. Bowl gardens bring gift business. Nurseryman & Seedsman 108: 114-116. Jan. 13, 1949. 80 N933

34590 GREEN, G. G. Euphorbias. Cactus & Succulent J. Gt. Brit. 11: 10-15. Jan. 1949. 450 C113

34591 GREY, C. H. Bulbs of summer and autumn. North. Gard. 3: 17-20. (To be cont.) Jan. 1949. 80 N816

34592 GRIGSON, G. Why yews were planted. Country Life [London] 105: 362-363. Feb. 18, 1949. 80 C83

34593 GROVE, L. C. Spring flowers in February's cold. Horticulture 27: 45. Feb. 1949. 80 H787

Flowering shrubs for forcing.

34594 GROVER, E. O. Orchids in the Mead Botanical Garden [Orlando, Florida]. Amer. Orchid Soc. B. 17: 707-708. Dec. 1948. 80 Am329

34595 GUBA, N. Hausgartengestaltung. Gart.-Z. Illus. Flora 72: 2. Jan. 1949. 80 G1991

34596 HADDEN, N. G. Oncocyclis Irises in a West Somerset garden. Iris Ybk. 25: 106-108. 1948. 84 Ir4

34597 HADDRELL, B. Fun growing Begonias from seed. Begonian 16: 35-36. Feb. 1949. 96.511 B39

34598 HAGEN, W. What's the elm you're selling? Pacific Coast Nurseryman 8(2): 13. Feb. 1949. 80 P116

34599 HAGOOD, P. Indoor garden thrives during winter under Madras woman's green thumb. Sunday Oregonian, Farm, Home, Gard. 1949: 2. Jan. 16, 1949. 6 Su7

34600 HALL, J. S. Winter window gardening. Your Gard. & Home 3(2): 20. Feb. 1949. 80 Y8

34601 HAMBURGER, L. M. Once started, there's no stopping tuberous Begonia fascination. Horticulture 27: 89-90. Mar. 1949. 80 H787

34602 HANSELL, D. E. Suburban garden roses. Horticulture 27: 47, 69. Feb. 1949. 80 H787

34603 HARRISON, C. M. Starting a lawn on the farm. Hoard's Dairyman 94: 228-229. Mar. 10, 1949. 44.8 H65

34604 HARSHBARGER, G. Mother's garden belongs to everyone. Flower Grower 36: 236-237, 273-274. Mar. 1949. 80 M72

34605 HAUSNER, F. Gartenhecken wollen regelmässig gepflegt werden. Berufsgärt. 2(1): 6-7. Jan. 1949. 80 B463

34606 HAWKES, A. D. East Coast tour. Amer. Orchid Soc. B. 17: 709-711. Dec. 1948. 80 Am329

Orchids in Florida.

34607 HAWKES, A. D. Everglades tour. Amer. Orchid Soc. B. 17: 713-715. Dec. 1948. 80 Am329

Orchids in Florida.

34608 HAWKES, A. D. A rare Okinawan orchid [Luisia liukiensis]. Orchid Digest 12: 263-264. Nov./Dec. 1948. 80 Or172

34609 HAWKES, A. D. White orchids [Dendrophylax] from Cuba. Nat. Hist. 58: 119. Mar. 1949. 500 N483J

34610 HAY, T. Zonal Pelargoniums. Amateur Gard. 65(3376): 11. Jan. 25, 1949. 80 Am13

34611 HAYWARD, W. Amaryllis being transformed. Horticulture 27: 81, 121. Mar. 1949. 80 H787

34612 HELLYER, A. G. L. The rock garden stands trial. Country Life [London] 105: 418-419. Feb. 25, 1949. 80 C83

34613 HENNINGSEN, MRS. H. G. Garden favorites—yours and mine. Golden Gard. 13: 72, 74. Jan. 1949. 80 G56

34614 HERRE, H. The use of succulents for landscaping purposes. (In Dutch.) Succulenta 1949: 14-16. (To be cont.) Jan./Feb. 1949. 450 Su12

34615 HERTRICH, W. Notes on Camellias. Golden Gard. 13: 86, 94. Feb. 1949. 80 G56

34616 HETHERINGTON, E. Some notes on Cattleya and allied generic hybrids. Orchid Digest 12: 255-256. Nov./Dec. 1948. 80 Or172

34617 HEYER, J. New lilies for southern gardens. Ann. Calif. Spring Gard. Show 16: 41, 53. 1948. 80 C1282

34618 HILL, M. Cypripediums. Austral. Orchid Rev. 13: 86-87. Dec. 1948. 80 Au73

34619 HOAK, C. M. Avoid having your garden carted away. Golden Gard. 13: 89, 96. Feb. 1949. 80 G56

Selection of ornamentals.

34620 HOAK, C. M. Bulb of the month: crown Anemone, Anemone coronaria. Golden Gard. 13: 90. Feb. 1949. 80 G56

34621 HOAK, C. M. Bulb of the month, Lilium pumilum (L. tenuifolium). Golden Gard. 13: 67. Jan. 1949. 80 G56

34622 HOAK, C. M. Lily pageants for your western gardens. Golden Gard. 13: 65, 70, 73. Jan. 1949. 80 G56

34623 HOGG, R. B. The Odontoglossum family. Austral. Orchid Rev. 13: 104-105. Dec. 1948. 80 Au73

34624 HOLLAND, L. J. Rock gardens for Colorado. Green Thumb 6(2): 16-18. Feb. 1949. 80 G82

34625 HOLM, H. Pflanzenzusammenstellungen in der binderei. Thür. Gartenbau 1948: 202-203. Dec. 1, 1948. 80 T42

34626 HOLWAY, C. P. A springtime arrangement for the living room. Wis. Hort. 39: 191. Mar. 1949. 80 W752

34627 HOWLAND, J. E. You get what you pay for. Do you wonder why there are such differences in the prices of rose bushes, tulip bulbs, and flowering shrubs? House Beautiful 91(3): 127, 204-206. Mar. 1949. 296.8 H81

34628 HUCKETT, G. W. Growing flowers the easy way. Amer. Agr. 146: 121, 157. Mar. 5, 1949. 6 Am3

34629 HYNES, S. R., WEINARD, F. F., and KAMP, J. R. Preventing transplanting shock in poinsettias. Biologist 31(1/2): 8-9. Nov. 1948. 442.8 B5263

34630 IKIN, R. Preparations for Gladioli. Amateur Gard. 65(3376): 10. Jan. 25, 1949. 80 Am13

34631 IKIN, R. Treatment of Gladiolus corms. Amateur Gard. 65(3378): 13. Feb. 8, 1949. 80 Am13

34632 INGRAM, C. Some Iris species. Iris Ybk. 25: 111-114. 1948. 84 Ir4

34633 INGWERSEN, W. The awakening rock garden. Gard. Work Amateurs 69: 464. Feb. 12, 1949. 80 G1627

34634 INGWERSEN, W. Plants for edges and pavements. Amateur Gard. 65(3376): 12. Jan. 25, 1949. 80 Am13

34635 IRIS SOCIETY. Iris year book, 25, 1948. Watford, Hertfordshire, 1948. 160 p. 84 Ir4

34636 JACOB, C. Les tulipes. Monit. Agr. 1(50/51): 15. Dec. 25, 1948/Jan. 1, 1949. 14 M744

34637 JACOBS, M. R. Our native lotus. Horticulture 26: 428. Nov. 1948. 80 H787

34638 JACOBSON, E. I. The promotion of a Gladiolus project. New England Gladiolus Soc. Gladiolus 24: 18-20. 1949. 96.43 N44

34639 JANES, E. R. Sweet peas. My Gard. 38: 151-155. Feb. 1949. 80 M995

34640 JENKINS, W. J. Flowers and winter can be companions. Agrarian 8(2): 22. Jan. 1949. 276.8 Ag8

34641 JOHNSON, A. T. Making a heather garden. Amateur Gard. 65(3374): 12-13. Jan. 11, 1949. 80 Am13

Planting Erica and Calluna.

34642 JOHNSON, F. R. Some thoughts on trees. Green Thumb 6(2): 4-5. Feb. 1949. 80 G82

Elms and oaks in Denver.

34643 JOHNSON, M. P. Long live Dictamnus! Home Gard. 13(3): 30-31. Mar. 1949. 80 H756

34644 JONES, J. P. Australian and N. Z. pedigrees. New England Gladiolus Soc. Gladiolus 24: 101-105. 1949. 96.43 N44

34645 JONES, J. P. Australian survey. New England Gladiolus Soc. Gladiolus 24: 21-32. 1949. 96.43 N44

34646 JØSANG, H. Summer flowers seeded directly in garden. (In Norwegian.) Norsk Hagetidend 65: 19-22. Feb. 1, 1949. 80 N81

34647 KALSER, J. Euphorbia pulcherrima plenissima (Poinsettia)-weihnachtsstern. Berufsgärt. 1(12): 3-4. Dec. 1948. 89 B463

34648 KASAJU, T. B. Dendrobium formosum. Orchid Rev. 57: 22. Feb. 1949. 80 Or15

34649 KELLY, G. W. We need research on ornamental plants. Green Thumb 6(2): 23-24. Feb. 1949. 80 G82

34650 KERSHISNIK, P. F. New Dahlias in the Pacific Northwest. Dahlia 17(2): 24. Dec. 1948. 80 D133



- 34651 KING, R. E. Keep the plants received for Christmas. Back Eden 15(5): 2-3. Jan. 1949. 80 B12
- 34652 KIRCHER, M., and KIRCHER, R. As we saw and grew them in 1948. New England Gladiolus Soc. Gladiolus 24: 80-96. 1949. 96.43 N44
- 34653 KLEIN, L. G. Canadian Gladiolus Growers Council 1948 test garden report. North Amer. Gladiolus Council. B. 17: 67, 69-70. Mar. 1949. 96.43 N81
- 34654 KNOCK, F. Variety in window garden. Back Eden 15(5): 1. Jan. 1949. 80 B12
- 34655 KNOWLES, R. H. Beautifying the approach to the home. Alberta. U. Dept. Plant Sci. Seasonal Notes 34: 2-4. Jan. 8, 1949. 64.9 AL12
- 34656 KRAUS, E. J. Bud and petal hardness. Natl. Chrysanthemum Soc. B. 4(4): 11-12. Fourth Quart. 1948. 96.519 Ea7
- 34657 KRAUSS, H. K. A hundred kinds to choose from: winter Begonia garden. Horticulture 26: 421. Nov. 1948. 80 H787
- 34658 KRUEGER, W. C. The rose Gladiolus. Wis. Hort. 39: 149, 151. Feb. 1949. 80 W752
- 34659 KUEMMERLING, K. Safety for the arborist. Natl. Shade Tree Conf. Proc. 24: 33-37. 1948. 99.9 N218
- Also in Arborist's News 14: 9-12. Jan. 1949. 99.8 Ar14
- 34660 LABADIE, E. A. Cacti from seed. Horticulture 27: 49. Feb. 1949. 80 H787
- 34661 LAKING, L., and LAKING, B. Armenian grape hyacinth, *Muscari armeniacum*. Your Gard. & Home 3: 17. Jan. 1949. 80 Y8
- 34662 LAKING, L., and LAKING, B. Good garden plants: Korean spice *Viburnum*, *V. carlesii*. Your Gard. & Home 3(2): 21. Feb. 1949. 80 Y8
- 34663 LAMSON, M. D. Make the small place seem bigger, plan before building. Horticulture 27: 51. Feb. 1949. 80 H787
- 34664 LANDALE, M. Iris *histrioides major*: an examination. Iris Ybk. 25: 68-70. 1948. 84 Ir4
- 34665 LARUS, J. R., and LARUS, C. T. Color inheritance. North Amer. Gladiolus Council. B. 17: 30, 33, 35-36, 39. Mar. 1949. 96.43 N81
- 34666 LARUS, J. R., and LARUS, C. T. 1948 variety ratings for exhibition purposes. New England Gladiolus Soc. Gladiolus 24: 59-74. 1949. 96.43 N44
- 34667 LEMMON, R. S. The best loved trees of America. Home Gard. 13(3): 47-54. Mar. 1949. 80 H756
- Quercus virginiana* and *Cupressus macrocarpa*.
- 34668 LEMMON, R. S. Let's face it: most annuals won't start blooming till summer. Home Gard. 13(3): 22-24. Mar. 1949. 80 H756
- 34669 LINCOLN, MRS. G. L. Colorful winter material from your garden. Wis. Hort. 39: 160. Feb. 1949. 80 W752
- 34670 LITTLEMAN, E. H. How to live on a slope and like it. Better Homes & Gard. 27(7): 240, 242-243. Mar. 1949. 80 F9424
- Landscaping.
- 34671 LONGLEY, L. E. New garden Chrysanthemums. Minn. Hort. 77: 23. Feb. 1949. 81 M66
- 34672 LONGNECKER, G. W. Adaptability and use of shade trees. Natl. Shade Tree Conf. Proc. 24: 95-96. 1948. 99.9 N218
- 34673 LOTT, MRS. Y. C. A history of orchid growing in Florida. Amer. Orchid Soc. B. 17: 696-700. Dec. 1948. 80 Am329
- 34674 LYNDON, R. Cape Honey flowers; *Porteas* for New Zealand gardens. New Zeal. Gard. 5: 194-195, 213-214. Nov. 1, 1948. 80 N4822
- 34675 LYNDON, R. New *Leptospermums*; hybrids raised in California. New Zeal. Gard. 5: 215-217. Nov. 1, 1948. 80 N4822
- 34676 MCCLELLAND, T. B. The five Florida orchid societies. Amer. Orchid Soc. B. 17: 705-707. Dec. 1948. 80 Am329
- 34677 MCCULLY, A. Early bloom in the rock wall. Gard. Chron. Amer. 53: 64-65. Mar. 1949. 80 G1632
- 34678 MACRAE, L. You can have a summer border packed with color. Better Homes & Gard. 27(7): 42-43. Mar. 1949. 80 F9424
- 34679 MACSELF, A. J. The aristocratic auricula. Amateur Gard. 65(3375): 12. Jan. 18, 1949. 80 Am13
- 34680 MACSELF, A. J. The summer hyacinth. Amateur Gard. 65(3378): 15. Feb. 8, 1949. 80 Am13
- 34681 MACSELF, A. J. Zonal Pelargoniums. Amateur Gard. Ann. 1949: 29. 80 Am12
- 34682 MAEKAWA, M., and MYODO, H. The cultivation of tulips in Hokkaido. I. Growth-rate and yield of bulbs. (In Japanese.) Soc. Agr. and Forestry, Sapporo. J. 37(4): 1-14. July 1948. 22.5 So1
- 34683 MARRIAGE, K. In a sunny window, gaining winter gaiety. Horticulture 26: 415. Nov. 1948. 80 H787
- 34684 MARSHALL, R. P. Importance of research in shade tree care. Natl. Shade Tree Conf. Proc. 24: 30-33. 1948. 99.9 N218
- 34685 MARZELL, H. Die lilie der goldmacher. Kosmos 44: 164-165. June 1948. 474 K842
- Lilium martagon*.
- 34686 MATTHEWS, L. Curing and storing Gladiolus corms. North Amer. Gladiolus Council. B. 17: 74-75. Mar. 1949. 96.43 N81
- 34687 MELVILLE, R. Conifers on show. Roy. Hort. Soc. J. 74: 17-22. Jan. 1949. 84 L84J
- 34688 MIDDLETON, MRS. F. C. A line arrangement. Wis. Hort. 39: 198. Mar. 1949. 80 W752
- 34689 MILLER, F. C. Old fashioned flowers for fragrance. Back Eden 15(5, 1. e. 6): 6. Feb. 1949. 80 B12
- 34690 MOORE, J. G. Lawns. Wis. Agr. Col. Ext. Stencil C. 244, rev., 18 p. Dec. 1948. 275.29 W75B
- Planting and care.
- 34691 MORRIS, SIR C. Notes on oncobreeding. Iris Ybk. 25: 39-40. 1948. 84 Ir4
- 34692 MORRIS, J. Potted versus dormant rose bushes. Amer. Rose Mag. 8: 142-143. Jan./Feb. 1949. 80 Am327A
- 34693 MORTON, R. P. First potting of perpetual carnations. Amateur Gard. 65(3375): 11. Jan. 18, 1949. 80 Am13
- 34694 MUELLER, C. H. Forcing spring bulbs. Horticulture 26: 411, 433. Nov. 1948. 80 H787
- 34695 MUHLESTEIN, T. Playing with the hybrids. Iris Ybk. 25: 90-94. 1948. 84 Ir4
- 34696 MULLER, A. M. Coleus for color. Home Gard. So. 9: 62-63, 72. Mar. 1949. 80 H755
- 34697 MUNRO, J. Find these a sunny spot, *Echinops* and *Eryngium* for cutting. Nurseryman & Seedsman 108: 36-37. Jan. 6, 1949. 80 N933
- 34698 MUNRO, J. Golden rod is in vogue again. Nurseryman & Seedsman 108: 270-271. Jan. 27, 1949. 80 N933
- 34699 MUNRO, J. Northern markets like the Geum. Nurseryman & Seedsman 108: 360-361. Feb. 3, 1949. 80 N933
- 34700 MUNRO, J. You can eat it, too. Nurseryman & Seedsman 108: 540-541. Feb. 17, 1949. 80 N933
- Physalis franchetti gigantea*.
- 34701 MURDOCK, R. Silverberry [*Eleagnus argentea*]. N. & S. Dak. Hort. 22: 46. Mar. 1949. 81 N817
- 34702 NATIONAL SHADE TREE CONFERENCE. Proceedings of annual meeting, 24, Milwaukee, Wisconsin, August 23, 24, 25, 26 and 27, 1948. Wooster, Ohio, 1948. 216 p. 99.9 N218
- 34703 NEL, G. C. Some South African succulents. Cactus & Succulent J. Gt. Brit. 11: 4-5. Jan. 1949. 450 C113
- 34704 NEW ENGLAND GLADIOLUS SOCIETY. The Gladiolus, twenty-fourth annual edition, 1949. Boston, 1949. 96.43 N44
- 34705 NICHOLSON, A. E. Orchids for amateurs. Amateur Gard. Ann. 1949: 53. 80 Am12
- 34706 NICOLINI, G. 100 carnations = 1600 grams. (In Italian.) Humus 4(12): 19-21. Dec. 1948. 16 H88
- 34707 NIES, E. E. The breeding of Iris. Golden Gard. 13: 103, 111. Mar. 1949. 80 G56
- 34708 NORMAN, A. Roses for garden and exhibition. Amateur Gard. 65(3376): 12-13. Jan. 25, 1949. 80 Am13
- 34709 NORTON, C. Consider wild western bulbs, neglected native beauty. Horticulture 26: 413. Nov. 1948. 80 H787
- 34710 ODELL, J. H. "She's my baby." New England Gladiolus Soc. Gladiolus 24: 109-113. 1949. 96.43 N44
- Breeding.



34711 OLSON, M. Orchids grow in Oregon, can be found in forests. Sunday Oregonian, Farm, Home, Gard. 1949: 2. Jan. 23, 1949. 6 Su7

34712 ORR, H. P. Cloth house aids culture of mums in South's climate. South. Florist & Nurseryman 61(50): 17, 63-65. Mar. 11, 1949. 80 So86

34713 ORR, H. P. Cloth house roses offer profit possibilities in South. South. Florist & Nurseryman 61(51): 14-15, 64. Mar. 18, 1949. 80 So86

34714 ORR, H. P. South imports many crops which are native to area. South. Florist & Nurseryman 61(47): 13, 99-102. Feb. 18, 1949. 80 So86

34715 PACKARD, J. H. Forever roses. Golden Gard. 13: 67. Jan. 1949. 80 G56

34716 PACKARD, J. H. Glamorize your garden with ease. Golden Gard. 13: 107, 115. Mar. 1949. 80 G56

34717 PALMER, E. F. Things we might do. North Amer. Gladiolus Council. B. 17: 42, 45, 47. Mar. 1949. 96.43 N81

Study of varieties.

34718 PARK, B. A planned rose garden. Amateur Gard. Ann. 1949: 78. 80 Am12

34719 PARK, B. Roses for walls. Amateur Gard. 65(3372): 9. Dec. 28, 1948. 80 Am13

34720 PARROT, A. G. L'origine du mot "Hortensia." Feuille des Nat. (n. s.) 2: 7-8. Jan. 1947. 410 F432

Hydrangea.

34721 PARRY, J. A unique renaissance garden. Gard. Illus. 66: 48-49. Mar. 1949. 80 G169

Villandry near Tours.

34722 PATIENCE, W. F. Best fifty little ones. North Amer. Gladiolus Council. B. 17: 39, 41. Mar. 1949. 96.43 N81

34723 PAUTZSCH, A. Your own Rhododendrons, grow them from seed. Horticulture 27: 53, 69. Feb. 1949. 80 H787

34724 PEARCE, S. A. Clivias for brilliance. Amateur Gard. 65(3378): 13. Feb. 8, 1949. 80 Am13

34725 PEARCH, S. A. Biennials and perennials from seed. Amateur Gard. Ann. 1949: 52. 80 Am12

34726 PELTON, W. C. Better home grounds; growing and transplanting trees and shrubs. Tenn. Agr. Col. Ext. P. 196, rev., 20 p. Mar. 1948. 275.29 T25

34727 PERRY, F. Planting a garden pool. Amateur Gard. Ann. 1949: 39. 80 Am12

34728 PFISTER, C. E. Gardening twelve months a year; an amateur's greenhouse. Horticulture 27: 86-87. Mar. 1949. 80 H787

34729 PHILLIPS, G. A. R. Hardy perennials for spring planting. Amateur Gard. 65(3378): 14-15. Feb. 8 1949. 80 Am13

34730 PHILLIPS, G. A. R. A planned herbaceous border. Amateur Gard. Ann. 1949: 30. 80 Am12

34731 POLLANETZ, E. V. Chrysanthemum koreanum. Gärt.-Kurier 3(24): 5. Dec. 15, 1948. 80 G1942

34732 PONTING, C. A winter study of the water-lily pool. Pop. Gard. 50: 469. Feb. 5, 1949. 80 G1622

34733 POST, K. Pompon growth after pinching. N. Y. State Flower Grower B. 41: 3, 5. Jan. 1949. 80 N486

Chrysanthemums.

34734 PRING, G. H. Water-lilies. Mo. Bot. Gard. B. 37: 65-88. Mar. 1949. 451 M69B

34735 PROCKTER, N. J. Coloured barks of trees and shrubs. Amateur Gard. Ann. 1949: 96. 80 Am12

34736 PROCKTER, N. J. Conifers of moderate size. Amateur Gard. 65(3374): 13. Jan. 11, 1949. 80 Am13

Chiefly Cupressus.

34737 PROCTOR, R. C. Orchid cactus[Epiphyllum]—glamor for your window sill. Farm J. 73(3): 146-148. Mar. 1949. 6 F2212

34738 PUDDLE, F. C. Dwarf Rhododendrons and evergreen Azaleas. My Gard. 38: 133-142. Feb. 1949. 80 M995

34739 PULLAR, E. A. New flower seeds. Conn. Circle 12(3): 14. Mar. 1949. 280.8 C7632

34740 QUIROS CALVO, M., and MATA PACHECO, J. Gladiolos, su importancia, cultivo, enfermedades, control y variedades. Suelo Tico 1: 128-134. Sept. 1948. 8 Su2

34741 RANDALL, H. J. Irises that are different. Iris Ybk. 25: 99-106. 1948. 84 Ir4

34742 REINSMITH, W. H. Some southern shrubby hollies. Amer. Nurseryman 88(9): 12. Nov. 1, 1948. 80 Am371

34743 REUSCH, G. Corsages of milady. II. Home Gard. So. 9: 56-57. Mar. 1949. 80 H755

34744 RICHARDSON, W. L. Form and substance. Amer. Rose Mag. 8: 137-138. Jan./Feb. 1949. 80 Am327A

34745 ROBERTS, W. Hybridizing, past and present. New England Gladiolus Soc. Gladiolus 24: 97-101. 1949. 96.43 N44

34746 ROBINSON, F. B. Landscape planting for airports. Urbana, Univ. of Illinois, 1948. (Ill. U. Inst. of Aeronautics. Aeronautics 2) 98 R563L

34747 ROCKWELL, F. F. Grooming grass for summer. Home Gard. 13(3): 37. Mar. 1949. 80 H756

34748 ROCKWELL, F. F., and GRAYSON, E. C. How to make a flower arranger. Home Gard. 13(3): 65-68. Mar. 1949. 80 H756

34749 RODRIGUEZ AVILA, A. Orquideas. Ager 44: 145-146. Aug. 1948. 33.23 Ag3

34750 ROS DE RAMIS, J. DE. Rosas. Cult. Mod. 31: 419-422. Nov. 1948. 15 C89

34751 ROSE, F. J. Lilies for beginners. Roy. Hort. Soc. J. 74: 53-60. Feb. 1949. 84 L84J

34752 ROYAL HORTICULTURAL SOCIETY. Classified list of daffodil names. London, 1948. 307 p. 96.47 R81

34753 RUCK, J. Cypripedium cameo versus C. oxus. Orchid Rev. 57: 26-28. Feb. 1949. 80 Or15

34754 SANDAY, W. J. W. Roses for the exhibition box and the garden. Gard. Chron. 125: 80. Mar. 5, 1949. 80 G162

34755 SAXTON, R. A glorious pageant of spring gold. Pop. Gard. 50: 481, viii. Feb. 12, 1949. 80 G1622

34756 SCHMIDT, W. Das reich der Chrysanthemen. Gart.-Z. Illus. Flora 72: 3-5. Jan. 1949. 80 G1991

34757 SCHREINER, E. J. Why a shade tree service. Amer. Forests 55(3): 26-27, 43-45. Mar. 1949. 99.8 F762

34758 SCHWARZ, F. Gymnocactus subterraneus Backeberg. Cactus & Succulent J. Gt. Brit. 11: 16. Jan. 1949. 450 C113

34759 SCORGIE, H. C. For bloom the year around, a garden of heaths. Horticulture 27: 54, 68. Feb. 1949. 80 H787

Erica and Bruckenthalia spiculifolia.

34760 SCOTT, L. Flowers for exhibition. New Zeal. Gard. 5: 185-187, 189. Nov. 1, 1948. 80 N4822

34761 SECKMAN, M. C. The newer Chrysanthemums. Flower Grower 36: 234-235, 284-285. Mar. 1949. 80 M72

34762 SHADE trees—their use, planting and maintenance. Natl. Shade Tree Conf. Proc. 24: 101-106. 1948. 99.9 N218

Panel discussion led by P. Pirone.

34763 SHEAT, W. G. Propagation of trees, shrubs and conifers. London, Macmillan, 1948. 479 p. 90.11 Sh3

34764 SHEPHERD, H. W. Lawns and ground covers. Ann. Calif. Spring Gard. Show 16: 16-17, 52. 1948. 80 C1282

34765 SHEPHERD, R. E. Find space for more climbing roses. Flower Grower 36: 226-229, 266-267. Mar. 1949. 80 M72

34766 SHEWELL-COOPER, W. E. Beauty and ashes! Estate Mag. 49: 60-62. Feb. 1949. 10 Es8

Planting flowering shrubs.

34767 SHEWELL-COOPER, W. E. Charm of a lily pool. Field 193: 135. Jan. 29, 1949. 10 F45

34768 SHEWELL-COOPER, W. E. Soilless cultivation; producing cut flowers for market by the water culture system. Field 193: 219. Feb. 19, 1949. 10 F45

34769 SHURLY, E. Starting a collection of Cacti. Amateur Gard. Ann. 1949: 87. 80 Am12

34770 SHVAN-GURIISKII, I. P. Duration of keeping quality of cut flowers. (In Russian.)—Sad i Ogorod 1948 (7): 51-52. July 1948. 87 Sa1

34771 SIMMONS, G. W., JR. Winter garden-planning. Wis. Hort. 39: 196. (Cont.) Mar. 1949. 80 W752

34772 SKINNER, F. L. The work of a rose breeder. Amer. Rose Mag. 8: 146-147. Jan./Feb. 1949. 80 Am327A



- 34773 SMIRNOW, L. Tree peony tour. Amer. Peony Soc. B. 111: 3-6. Dec. 1948. 81 Am38B
- 34774 SMITH, D. H. Glads in school gardens. New England Gladiolus Soc. Gladiolus 24: 135-137. 1949. 96.43 N44
- 34775 SMITH, H. Free-flowering brooms for the shrub border and rockery. Pop. Gard. 50: 468. Feb. 5, 1949. 80 G1622
- 34776 SNOOK, J. S. Lilacs and peonies. Amer. Peony Soc. B. 111: 27-31. Dec. 1948. 81 Am38B
- 34777 SOLLY, C. Colored-leaved trees and shrubs. Wash. State Hort. Assoc. Proc. 44: 223-226. 1948. 81 W273
- 34778 SPENCER, S. J. What is a cut-flower? Nurseryman & Seedsman 108: 268-269. Jan. 27, 1949. 80 N933
- 34779 STEFFEK, E. F. Garden flowers for 1949. Horticulture 27: 88, 119. Mar. 1949. 80 H787
- 34780 STEFFEN, A. Die Gladiolen und ihre lebensansprüche. Süddeut. Erwerbsgärt. 2: 59-60. Aug. 1948. 80 Su2
- 34781 STEVENS, A. Withstanding the famous freeze. Begonia 16: 33. Feb. 1949. 96.511 B39
- Clivia.
- 34782 STEVENS, J. An interesting garden hybrid. Iris Ybk. 25: 95-96. 1948. 84 Ir4
- 34783 STEVENSON, V. The African violet. Amateur Gard. 65(3372): 10. Dec. 28, 1948. 80 Am13
- 34784 STEVENSON, V. Christmas flower decoration. Amateur Gard. Ann. 1949: 99. 80 Am12
- 34785 STIRLING, W. The best Cypripediums? Orchid Rev. 57: 28-32. (Concl.) Feb. 1949. 80 Or15
- 34786 STOUT, A. B. Daylilies being introduced in 1949. N. Y. Bot. Gard. J. 50: 36-39. Feb. 1949. 451 N48J
- 34787 STOWE, E. J. Hedging. Young Farmer 17: 15-16. Jan./Feb. 1949. 10 Y8
- Hedge laying and trimming.
- 34788 STUART, N. W. Effect of temperature and humidity on storage of lily bulbs. Florists' Rev. 103 (2675): 39-41. Mar. 3, 1949. 80 W41
- Also in Florists Exch. 112(12): 18-19. Mar. 19, 1949. 80 F666; South. Florist & Nurseryman 61(50): 11-13, 101-102. Mar. 11, 1949. 80 So86
- 34789 STURGES, A. B. The most satisfying perennial? Back Eden 15(5, i. e. 6): 3. Feb. 1949. 80 B12
- Shasta daisy, Chrysanthemum maximum.
- 34790 SYDENHAM, F. Establishment and maintenance of a lawn. New Zeal. Dept. Agr. B. 309, 11 p. Mar. 1948. 23 N48Bu
- 34791 TAIT, D. M. Iris-growing in the north of Portugal. Iris Ybk. 25: 77-79. 1948. 84 Ir4
- 34792 TEELE, MRS. A. P. Gladiolus in design. New England Gladiolus Soc. Gladiolus 24: 11-18. 1949. 96.43 N44
- 34793 THAYER, C. L., and BOICOURT, A. W. House plants. Mass. U. Agr. Ext. Leaflet 103, 15 p. Oct. 1948. 275.29 M381L
- Culture.
- 34794 THEE, J. Pelouses nord-africaines: Stenotaphrum ou Pennisetum [clandestinum]. Rev. Hort. [Paris] (n. s.) 31: 324-325. Oct. 1948. 80 R32
- 34795 THOMAS, D. G. Sowing sweet peas in January. Amateur Gard. 65(3374): 11. Jan. 11, 1949. 80 Am13
- 34796 THOMAS, D. G. Sweet pea matters. Amateur Gard. 65(3372): 8. Dec. 28, 1948. 80 Am13
- 34797 THOMAS, D. G. Sweet peas for decoration. Amateur Gard. Ann. 1949: 28. 80 Am12
- 34798 THOMAS, J. E. How trees can effect putting greens. Greenkeepers' Rptr. 17: 16. Jan./Feb. 1949. 60.18 G83
- 34799 THWING, W. E. Yes, you can grow fringed gentians. Home Gard. 13(3): 11-16. Mar. 1949. 80 H756
- 34800 TOWNDROW, K. R. The shape of things to come? Iris Ybk. 25: 75-77. 1948. 84 Ir4
- Iris breeding.
- 34801 TURNER, A. B. Misplaced plants. Horticulture 26: 427. Nov. 1948. 80 H787
- Proper environment for house plants.
- 34802 UITEWAAL, A. J. A. Views on the classification of Haworthias. Cactus & Succulent J. Gt. Brit. 11: 19-21. Jan. 1949. 450 C113
- 34803 U. S. PATENT OFF. Plant patents. 6 Nos. 1949. 156.65 P69
- Contents: 822. Andre, T. J. Rose plant. 2 p., 1 col. pl. Feb. 1; 825. Sparre, G. C. Chrysanthemum plant. 2 p., 1 col. pl. Feb. 22; 826. Sparre, G. C. Chrysanthemum plant. 2 p., 1 col. pl. Feb. 22; 827. Sparre, G. C. Chrysanthemum plant. 2 p., 1 col. pl. Feb. 22; 828. Swim, H. C. Rose plant. 3 p., 1 col. pl. Feb. 22; 829. Swim, H. C. Rose plant. 3 p., 1 col. pl.
- 34804 U. S. SOIL CONSERVATION SERV. Plant living fences of multiflora rose. Milwaukee, 1948. 2 p. 1.9605 P695
- 34805 VAN KONYNENBURG, J. Bulbous plants for the rock garden. Amateur Gard. Ann. 1949: 23. 80 Am12
- 34806 VAN WORMER, H. M. Common errors in tree pruning. Natl. Shade Tree Conf. Proc. 24: 26-29. 1948. 99.9 N218
- 34807 VAUGHN, H. L. Garden paving, curbs, gutters and steps. Ann. Calif. Spring Gard. Show 16: 20-21. 1948. 80 C1282
- 34808 VÖTH, W. Die fliedertreiberei. Berufsgärt. 2(1): 5. Jan. 1949. 80 B463
- 34809 WAINWRIGHT, B. Lilies from seeds. Back Eden 15(5): 8. Jan. 1949. 80 B12
- 34810 WALL, J. T. The alpine house. Amateur Gard. 65(3374): 10. Jan. 11, 1949. 80 Am13
- 34811 WALL, J. T. Cushion saxifrages. Amateur Gard. 65(3378): 14. Feb. 8, 1949. 80 Am13
- 34812 WALLIN, H. E. Winter greens. Explorer 98: 6-7. Winter 1949. 409.6 Ex7
- 34813 WATKINS, J. V. Propagation of ornamental plants. Fla. Agr. Col. Ext. B. 137, 44 p. Aug. 1948. 275.29 F66
- 34814 WEALE, K. M. Show winners—1948 symposium. New England Gladiolus Soc. Gladiolus 24: 75-79. 1949. 96.43 N44
- 34815 WEATHERBY, C. A. Rare Scott's spleenwort—one chance in a thousand. Horticulture 27: 85, 119. Mar. 1949. 80 H787
- 34816 WEBB, G. E. V. A profitable Christmas pot plant. Grower [London] 31: 197. Jan. 29, 1949. 286.83 M34
- Begonia optima.
- 34817 WEBB, G. E. V. Why import Hydrangea plants? Grower [London] 31: 448-449. Mar. 5, 1949. 286.83 M34
- 34818 WEBB, R. W. Eastern Dahlia review. Dahlia 17(2): 14-16. Dec. 1948. 80 D133
- 34819 WEBB, V. E. Sweet violets in winter. Amateur Gard. Ann. 1949: 92. 80 Am12
- 34820 WELD, M. F. Try creating your own miniature landscapes. Horticulture 26: 417, 432. Nov. 1948. 80 H787
- 34821 WELLS, J. B. The return of picotees. Amateur Gard. Ann. 1949: 72. 80 Am12
- 34822 WHEELER, W. H. Konynenburg & Mark, Nordwyk, the Netherlands. New England Gladiolus Soc. Gladiolus 24: 32-36. 1949. 96.43 N44
- 34823 WHITEHEAD, J. Ferns for east Bay gardens. Ann. Calif. Spring Gard. Show 16: 25, 49-50. 1948. 80 C1282
- 34824 WHITEHEAD, J. Succulents from the University of California South African Expedition. Ann. Calif. Spring Gard. Show 16: 61. 1948. 80 C1282
- 34825 WILL, G. F. The badlands cedar [Juniperus scopulorum]. N. & S. Dak. Hort. 22: 42. Mar. 1949. 81 N817
- 34826 WILLES, E. N. Plan bedding schemes now. Amateur Gard. 65(3376): 13. Jan. 25, 1949. 80 Am13
- 34827 WILLOUGHBY, A. C. The orchid. Ann. Calif. Spring Gard. Show 16: 45. 1948. 80 C1282
- 34828 WILSON, F. C. Transplanting seedlings. Gard. Chron. Amer. 53: 67, 69. Mar. 1949. 80 G1632
- 34829 WOLFF, W. H. Yes, you can plant lilies in the spring. Horticulture 27: 91. Mar. 1949. 80 H787
- 34830 WOOD, C. W. Color in shady places. Amer. Nurseryman 88(9): 16, 18, 49. Nov. 1, 1948. 80 Am371
- 34831 WOOD, C. W. Evergreens for low edgings. Amer. Nurseryman 89(6): 20, 22, 24, 67. Mar. 15, 1949. 80 Am371



34832 WOODROFFE, F. B. Grow Begonias. Better Homes & Gard. 27(7): 54-55, 246-247. Mar. 1949. 80 F9424

34833 WOOLMAN, J. Chrysanthemum grower's A. B. C. Nurseryman & Seedsman 108: 356-357. Feb. 3, 1949. 80 N933

34834 YAGER, L. Shrub plantings around the farm. Dak. Farmer 69(4): 5. Feb. 19, 1949. 6 D14

34835 YAGER, L. Trees in the landscape planting. Dak. Farmer 69(3): 10-11. Feb. 5, 1949. 6 D14

34836 ZAHROY, K. Die treiberei der hyazinthen. Berufsgärt. 1(11): 4-5. Nov. 1948. 80 B463

34837 ZATSEPIN, M. G. Autumn work in landscape gardening. (In Russian.) Sel'sk. Stroitel' 3(5): 19-20. Sept./Oct. 1948. 296.28 Se4

#### Vegetable and Truck Crops (Including Potatoes)

34838 ALBAN, E. K., FORD, H. W., and HOWLETT, F. S. A preliminary report on the effect of various cultural practices with greenhouse tomatoes on the respiration rate of the harvested fruit. Amer. Soc. Hort. Sci. Proc. 52: 385-390. Nov. 1948. 81 S012

34839 ALLEN, E. J. 4-H Club manual in growing early Irish potatoes. Ark. Agr. Col. Ext. C. 380, rev., 7 p. Mar. 1948. 275.29 Ar4

34840 ALLERTON, F. W. Factors that influence tomato yields. Nurseryman & Seedsman 108: 542-544. Feb. 17, 1949. 80 N933

34841 ANDERSON, W. S. New variety of cucumber developed for Mississippi. Miss. Farm Res. [Miss. Sta.] 12: 1, 7. Jan. 1949. 100 M69Mi  
Similar title in Mkt. Growers J. 78(2): 29. Feb. 1949. 6 M34

34842 ARNOLD, R. E. Root crops on shallow soils. Amateur Gard. Ann. 1949: 68. 80 Am12

34843 ARNOLD, R. E. They need a long season. Smallholder 80(2029): 7. Feb. 18, 1949. 10 Sm1

Parsnip culture.

34844 ARTISS, P. Grow early lettuce without heat. Amateur Gard. Ann. 1949: 20. 80 Am12

34845 BALASHOV, N. N. To utilize the mountain districts for potato seed production. (In Russian.) Selek. i Semen. 15(7): 19-21. July 1948. 61.9 Se5

34846 BALLINGER, R. J. Vegetables for New Zealand. New Zeal. Gard. 5: 176-178. Nov. 1, 1948. 80 N4822

34847 BAVRA, J. Gurkenzucht im gewächshaus. Thür. Gartenbau 1948: 204. Dec. 1, 1948. 80 T42

34848 BEN-DAVID, T. Uncovered winter nurseries for tomatoes. (In Hebrew.) Hassadeh 29: 71-72. Dec. 1948. 26 H27

34849 BERARDO, C. Coopération hollandaise et nouveaux plants de pommes de terre. Agriculture [Paris] 12: 383-385. Dec. 1948. 14 Ag823

34850 BEVERLY, V. C., and LANGLEY, E. How to grow 4-H potatoes. Maine. Agr. Col. Ext. B. 375, 12 p. Apr. 1948. 275.29 M281B

34851 BINKLEY, A. M., and KUNKEL, R. The effect of chemical vine killers on yield and quality of Red McClure and Bliss Triumph potatoes. Amer. Potato J. 25: 371-376. Oct. 1948. 75.8 P842

34852 BLAKE, C. M. Siberian kale as a cover crop plant. Bio-dynamics 7: 6-9. Fall/Winter 1948. 56.8 B52

34853 BLASSINSKY, J. Gedarrte steckzwiebeln bringen höhere und bessere ernten! Ceres [Hamburg] 1948(10): 5-6. 80 C332

34854 BLIN, H. Culture de la chicorée a café. Monit. Agr. 2(54): 6. Jan. 23, 1949. 14 M744

34855 BLIN, H. Parlons un peu de la culture des fèves au potager. Acclimatation 76: 37. Feb. 12, 1949. 14 Ac2

34856 BLIN, H. Les plantes potagères à élever en pépinière. Acclimatation 76: 18. Jan. 22, 1949. 14 Ac2

34857 BLIN, H. Production de carottes sur couche. Acclimatation 76(1): 3. Jan. 1, 1949. 14 Ac2

34858 BLIN, H. Produisez la pomme de terre sur couche pour récolter jusqu'en juin. Acclimatation 76: 29. Feb. 5, 1949. 14 Ac2

34859 BÖHM, F. J. Die zuckermelonen. Landwirtsch. 1948: 325-327. Nov. 25, 1948. 19 L235

34860 BOWERS, J. L., and others. Sweet corn variety testing program in Mississippi. Miss. Agr. Expt. Sta. C. 142, 8 p. Sept. 1948. 100 M69

T. E. Ashley, J. A. Campbell, M. T. Deonier, L. R. Farish, and O. Sheets, joint authors.

34861 BRASHER, E. P. The management of young asparagus plantings. Peninsula Hort. Soc. Trans. 62: 93-98. 1948. 81 P37

34862 BREMER, A. H. Leek yields from early or normal culture in hotbeds with thin or normal seeding. (In Norwegian.) Norsk Hagetidend 65: 37. Feb. 1, 1949. 80 N81

34863 BREMER, A. H. Selection of vegetable and root crop varieties. (In Norwegian.) Norsk Hageselskap Minneliste for Hagedyrkere 1948: 19-22. 86 N81

34864 BREZHNEV, D. D. Selection and seed production of vegetable crops at VIR [Vsesoyuznyi Institut Rasteniyevodstva]. (In Russian.) Agrobiologiya 1948(3): 63-71. May/June 1948. 20 Ag822

34865 BROWN, C. Pick the potatoes that will suit your soil. Smallholder 80(2025): 6. Jan. 21, 1949. 10 Sm1

34866 BROWN, D. M. Wisconsin and Midwest edible mushrooms. Madison, 1948. 30 p. 462.5 B81

34867 BUKASOV, S. M. Kul'tura kartofelia [Potato culture]. Leningrad, Leningradskoe Gazetno-Zhurnal'noe i Knizhnoe Izd-vo, 1948. 228 p. 75 B86K

34868 BULIN, F. Die bohne im erwerbsgartenbau. Ceres [Hamburg] 1948(11): 10. Nov. 1948. 80 C332

34869 BURKE, O. D., and MILLS, W. R. New potatoes yield high in 2-year tests but older kinds have some advantages. Sci. Farmer [Pa. Sta.], 1949: 8-9. Mar. 1949. 100 P381

34870 BUZULIN, G. S. We shall create new varieties of melons by using Michurin's methods. (In Russian.) Sad i Ogorod 1948(6): 66-68. June 1948. 87 Sa1

34871 CAILLAU, G. Une culture qui rapporte: la truffe. Monit. Agr. 1(50/51): 9. (To be cont.) Dec. 25, 1948/Jan. 1, 1949. 14 M744

34872 CALIFORNIA. DEPT. OF AGRICULTURE. Final report, seed potato certification service. Sacramento, 1948. 28 p. 75.9 C122S

34873 CAMPBELL, J. A. Breeding tomatoes for higher yields, better quality, and resistance to Fusarium wilt. Miss. Agr. Expt. Sta. Inform. Sheet 420, 2 p. Dec. 1948. 100 M69In

34874 CAMPBELL, J. A. Good traits in new lines of tomatoes. Miss. Farm Res. [Miss. Sta.] 11(12): 1, 8. Dec. 1948. 100 M69Mi

34875 CAMPBELL, J. A. High yields made by new snap beans. Miss. Farm Res. [Miss. Sta.] 12(2): 8. Feb. 1949. 100 M69Mi

34876 CAMPBELL, J. C., and MARTIN, W. H. Potatoes: yesterday and today. Rural New-Yorker 99: 123, 126. Feb. 19, 1949. 6 R88

34877 CAPULER, B. Preparing the soil for spring vegetables. (In Hebrew.) Hassadeh 29: 63-64. Dec. 1948. 26 H27

34878 CAPULER, B. Problems of the vegetable garden in the autumn of 1948. (In Hebrew.) Hassadeh 29: 67-70. Dec. 1948. 26 H27

34879 CAROLUS, R. L. Yielding and processing quality of pickle varieties in 1947 and 1948 tests. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 208. Mar. 1949. 389.8 F94

34880 CARRANZA S., J. L. Ensayo agrícola-económico del cultivo de la papa en la Provincia de Cartago. Suelo Tico 1: 251-256. Oct. 1948. 8 Su2

34881 CHAMBRIAL, R. La sélection généalogique. Pomme de Terre Franç. 12(114): 21-24. Feb. 1949. 75.8 P77

34882 CHOPINET, R., and TRÉBUCHET, G. Essai de classification et d'identification des principales variétés de haricots cultivées en France. Rev. Hort. [Paris] (n. s.) 31: 307-312. (Cont.) Oct. 1948. 80 R32

34883 CHOU, C. Y., FANG, T. K., and LIN, A. K. A preliminary study of sweetpotato varieties and yields in eastern Fukien. (In Chinese.) Fukien Agr. J. 9: 137-147. Ref. June 1948. 22.5 F95

34884 COMIN, D. Varieties of vegetables for 1949. Gard. Greetings 7(3): 7, 12. Mar. 1949. 90.32 G167

34885 COOK, H. H. The way to produce good celery. Amateur Gard. Ann. 1949: 85. 80 Am12



- 34886 COWART, F. F., and DEMPSEY, A. H. Pimiento production in Georgia. *Ga. Agr. Expt. Sta. B.* 259, 32 p. Ref. Mar. 1949. 100 G29S
- 34887 CRANSTOUN, W. M. New Jersey certified seed is good. *Hints Potato Growers* 29(8): 1-3. Dec. 1948. 75.9 H59
- 34888 CROSBY, J. Vegetables succeed where oranges fail. *Calif. Farmer, South. Ed.* 190: 93. Jan. 29, 1949. 6 C126A  
Where trees succumb to quick decline.
- 34889 CUMMING, G. E. Early tomatoes need growing, not forcing. *Grower [London]* 31: 353, 355, 357. Feb. 19, 1949. 286.83 M34
- 34890 DAWSON, C. D. R. Sweet corn is becoming popular. *Nurseryman & Seedsman* 108: 634-636. Feb. 24, 1949. 80 N933  
In Great Britain.
- 34891 DEMESMAY, H. Doit-on pratiquer dans une zone, la sélection massale avant la sélection généalogique? *Pomme de Terre Franç.* 11(112): 6-8. Dec. 1948. 75.8 P77
- 34892 DEMESMAY, H. Le problème des variétés. *Pomme de Terre Franç.* 12(113): 3-6. Jan. 1949. 75.8 P77
- 34893 DEMESMAY, H. La production du plant en France. *Pomme de Terre Franç.* 11(112): 4-5. Dec. 1948. 75.8 P77
- 34894 DMITRIEV, N. P. Growing potatoes in the subalpine zone of Northern Caucasus. (In Russian.) *Selekt. i Semen.* 15(6): 49-55. June 1948. 61.9 Se5
- 34895 DOBROGORSKII, V. I. Growing eastern radish. (In Russian.) *Sad i Ogorod* 1948(7): 77. July 1948. 87 Sal  
In the Ukraine.
- 34896 DU COURTIL, G. Quelles variétés de tomates adopterez-vous? *Vie à la Campagne* 38: 39-40. Feb. 1949. 80 V67
- 34897 EDWARDS, R. L. Mushroom Research Station at Yaxley. *Nature [London]* 163: 337. Feb. 26, 1949. 472 N21
- 34898 EGUIRAUN, J. DE. Tratado de horticultura y generalidades de agricultura. Caracas, Tip. Garrido, 1948. 382 p. 91 Eg8  
Vegetable culture.
- 34899 EICHINGER, A. Zum abbau der kartoffeln. *Neue Mitt. f. die Landw.* 3: 451. Dec. 5, 1948. 18 N39
- 34900 EIRE. DEPT. OF AGRICULTURE. Onion growing. *Eire. Dept. Agr. Leaflet* 118, 6 p. 1948. 10.5 Ir42
- 34901 ELLISON, W. A healthy crop and a bumper yield. *Farmers Weekly [London]* 30(6): 45, 47. Feb. 11, 1949. 10 F2226  
Potato culture in England.
- 34902 EPPS, J. M., and SHERBAKOFF, C. D. The Miles watermelon. *Seed World* 64(6): 14, 16. Mar. 18, 1949. 61.8 Se52
- 34903 ESTRADA BERG, A. Breve reseña del cultivo de la papa. *Campo [Tacuba]* 16(681): 3, 5-8, 10. Nov. 30, 1948. 8 C157
- 34904 FÉDÉRATION NATIONALE DES PRODUCTEURS DE PLANTS DE POMMES DE TERRE. Dans votre intérêt lisez attentivement ce dépliant; chaque année des quantités importantes de plants sont perdues par suite de mauvaise conservation ou de transports réalisés dans de mauvaises conditions. Paris, 1948. 8 p.-folder. 75 F31D
- 34905 FERGUSON, W. Vegetable growing. Canada. *Dept. Agr. Farmers' B.* 154, 55 p. Oct. 1948. 7 C16F  
Culture.
- 34906 FLACCOMIO, E. A food supplied free by nature: mushrooms. (In Italian.) *Risveglio Agr.* 7: 351-352. Oct. 15/31, 1948. 16 R49
- 34907 FLAWN, L. N. Cloche protection gives higher quality. *Smallholder* 80(2025): 9. Jan. 21, 1949. 10 Sm1  
In vegetable culture.
- 34908 FLAWN, L. N. Early beans and peas. *Amateur Gard.* 65(3374): 14. Jan. 11, 1949. 80 Am13
- 34909 FLAWN, L. Early crops under Dutch lights. *Fruit, Flower, & Veg. Trades' J.* 95(6): 18-19. Feb. 5, 1949. 80 F946  
Similar title in *Amateur Gard.* 65(3376): 14. Jan. 25, 1949. 80 Am13
- 34910 FONINA, O. Ia. Berlikhingen potato variety under conditions of Uzbekistan. (In Russian.) *Sad i Ogorod* 1948(6): 63-64. June 1948. 87 Sal
- 34911 FRAZIER, W. A., KIKUTA, K., and HENDRIX, J. W. Climate and the question of time in tomato improvement. *Amer. Soc. Hort. Sci. Proc.* 52: 341-342. Nov. 1948. 81 So12
- 34912 GAULT, S. M. Preparing exhibition vegetables. *Amateur Gard. Ann.* 1949: 77. 80 Am12
- 34913 GERN, A. P. Potato varieties for Penza Region. (In Russian.) *Sad i Ogorod* 1948(8): 70-72. Aug. 1948. 87 Sal
- 34914 GIBBS, L. C. Grow your own vegetables; when, what and how to plant. *N. Mex. Agr. Col. Ext. C.* 220, 8 p.-folder. Feb. 1948. 275.29 N463E
- 34915 GILLESE, J. P. Tasty greens from nature's garden. *Family Herald & Weekly Star* 80(4): 35, 40. Jan. 26, 1949. 7 F21
- 34916 GILLIN, P. La culture de la patate douce en Tunisie. *Colon Franç. de Tunisie* 59(2082): 3. (To be cont.) Jan. 15, 1949. 24 C712
- 34917 GLASSCOCK, H. H. Prevention of sprouting in potato clamps. *Gard. Chron.* 125: 54-55. Feb. 12, 1949. 80 G162
- 34918 GRAYSON, E. C. 188 pounds of vegetables from a flower bed. *Woman's Day* 1949: 46-47, 84, 86-87. Mar. 1949. 321.8 W842
- 34919 GREENLEAF, W. H. Comparative yields of seven varieties of pumpkins (*Cucurbita moschata*) adapted to the South. *Amer. Soc. Hort. Sci. Proc.* 52: 430-434. Nov. 1948. 81 So12
- 34920 GULIAEV, L. M. Winter storage of onion seed. (In Russian.) *Sad i Ogorod* 1948(8): 53-55. Aug. 1948. 87 Sal
- 34921 GUYATT, R. H. Vegetables from chalk soils. *Amateur Gard. Ann.* 1949: 84. 80 Am12
- 34922 HANNA, G. C. New asparagus; two new strains of the Mary Washington produce tight spears of uniform color. *Calif. Agr. [Calif. Sta.]* 3(3): 15. Mar. 1949. 100 C12Cag
- 34923 HARTH TERRE, L. El cultivo del tomate. *Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr.* 15: 23-24. Oct. 1948. 9.8 P4352
- 34924 HARTMAN, J., and OESTERLE, E. Effect of frequency of picking tomatoes on yield and returns. *Amer. Soc. Hort. Sci. Proc.* 52: 383-384. Nov. 1948. 81 So12
- 34925 HAUSRATH, E. Jungflanzenanzucht, eine hochintensive frühbeetnutzung. *Ceres [Hamburg]* 1948 (5/6): 9. 80 C332  
Vegetables.
- 34926 HÉDOU, J. Reflexions sur la conservation et le conditionnement. *Pomme de Terre Franç.* 11(112): 8-11. Dec. 1948. 75.8 P77
- 34927 HEISER, C. B., JR., and SMITH, P. G. Observations on another species of cultivated pepper, *Capsicum pubescens* R. & P. *Amer. Soc. Hort. Sci. Proc.* 52: 331-335. Ref. Nov. 1948. 81 So12
- 34928 HICKEY, J. C. Fall tomatoes at Portland, Maine. *Mkt. Growers J.* 78(3): 24, 40. Mar. 1949. 6 M34
- 34929 HICKEY, J. C. Vegetable varieties for the Maine home garden. *Maine. Agr. Col. Ext. B.* 374, 15 p. Feb. 1948. 275.29 M281B
- 34930 HOFFMAN, I. C. Vitamin B complex increases mushroom yields. *Ohio Farm & Home Res. [Ohio Sta.]* 33: 184-186. Nov./Dec. 1948. 100 Oh3S
- 34931 HOME GROWN THRESHED PEAS JOINT COMMITTEE. Better quality and bigger yields from your peas. London, 1948? 4 p. 91.56 H75B
- 34932 INGWERSEN, W. Houseleeks and stonecrops. *Amateur Gard. Ann.* 1949: 38. 80 Am12
- 34933 ISBIT, A. What about irrigation and seed pelleting in pickle production? (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 208. Mar. 1949. 389.8 F94
- 34934 JOHNSON, W. A., and WARE, L. M. Effects of rates of nitrogen on the relative yields of sweetpotato vines and roots. *Amer. Soc. Hort. Sci. Proc.* 52: 313-316. Nov. 1948. 81 So12
- 34935 JONES, H. A. New hybrid onion varieties being readied for trade. *West. Feed & Seed* 4(2): 10, 14-16, 20. Feb. 1949. 389.78 W52



- 34936 JUNG, K. Betriebswirtschaft im Gemüsebau nach der Währungsreform. *Ceres* [Hamburg] 1948(9): 9. 80 C332
- 34937 KARUNAKAR, P. D. Potato cultivation in lower elevations. *Planters' Chron.* 43: 598-599. Dec. 15, 1948. 22 p693 India.
- 34938 KHVATOVA, K. A. Agrotehnika gorokha [Cultural practices for peas]. Leningrad, Leningradskoe Gazetno-zhurnal'noe i Knizhnoe Izd-vo, 1948. 35 p. 91.56 K52
- 34939 KIROVSKII, G. K. Local varieties of muskmelons and squash in Altaï Region. (In Russian.) *Sad i Ogorod* 1948(8): 61-62. Aug. 1948. 87 Sal
- 34940 KNIGGE, A., FREIHERR. Die absatzkrise im deutschen Gemüsebau. *Ceres* [Hamburg] 1948(11): 15-16. 80 C332
- 34941 KNOTT, J. E. Cooperation in vegetable research. *Amer. Soc. Hort. Sci. Proc.* 52: 542-548. Nov. 1948. 81 S012
- 34942 KÖTTER. Die Steigerung der Gemüseerträge im Gartenbau durch zweckmässige Auswahl geeigneter Kulturfolgen. *Ceres* [Hamburg] 1948(7/8): 5-7. 80 C332
- 34943 KÖTTER, E. Wie kann der frühgemüsebauer zur Ernährungssicherung beitragen? *Ceres* [Hamburg] 1948(5/6): 11-12. (Cont.) 80 C332
- 34944 KREVCHENKO, E. D. New varieties of muskmelons at the Birfuchekutskafâ Ovoshchnafâ Selektsionnâfâ Stanfâ. (In Russian.) *Sad i Ogorod* 1948(7): 58-61. July 1948. 87 Sal
- 34945 KRICKL, M. Züchterische Richtlinien für die Auswahl der samenzwiebel zur Verbesserung der Haltbarkeit und des inneren Aufbaues der Zwiebel. *Gartenbauwirtschaft* [Berlin] 1948(9): 1-6. 80 G1936
- 34946 KUZ'MIN, V. P. Potatoes in Akmolinsk Steppe. (In Russian.) *Sad i Ogorod* 1948(8): 68-70. Aug. 1948. 87 Sal
- 34947 LARUE, P. Asparagiculture expérimentale. *Rev. Hort.* [Paris] (n. s.) 31: 312-313. Oct. 1948. 80 R32
- 34948 LEBEDEVA, E. G. Tomato varieties in the Siberian forest zone of the Eniseï North. (In Russian.) *Sad i Ogorod* 1948(8): 59-60. Aug. 1948. 87 Sal
- 34949 LECHNER. "Wunderfrucht" topinambur. *Landw. Wchnbl.* 138: 447. Dec. 18, 1948. 18 L2338
- 34950 LEONT'EVA, I. A. Apropos of summer plantings of potatoes in Moscow Region. (In Russian.) *Sad i Ogorod* 1948(6): 64-65. June 1948. 87 Sal
- 34951 LEWIS, D. C. Identifying rogue tomato plants. *Grower* [London] 31: 244-245. Feb. 5, 1949. 286.83 M34
- 34952 LITVINCHUK, K. A. Late summer planting of potatoes in Naryn. (In Russian.) *Sad i Ogorod* 1948(8): 67-68. Aug. 1948. 87 Sal
- 34953 LORKH, A. G. Seedling 525. (In Russian.) *Molod. Kolkhoz.* 15(7): 20-21. July 1948. 110 M73  
New potato variety in U. S. S. R.
- 34954 LÜCKING, W. Gemüsebau auch im landwirtschaftlichen Betrieb. *Ceres* [Hamburg] 1948(5/6): 10-11. 80 C332
- 34955 LUSIGNANI. New beet culture experiments. (In Italian.) *Rinascita Agr.* 3(11): 1. Apr. 1, 1948. 281.8 R47 Italy.
- 34956 LUSTIG, E. Topinamburen in forstlicher Zwischenkultur. *Landwirtschaft* 22(1/2): 19-20. 1949. 19 L235
- 34957 MCGEE, F., and CHRISTI, F. Cut [potato] seed pieces are all right. *San Luis Val. Farmer & Stockman* 3(6): 4. Feb. 1949. 6 Sa52
- 34958 MACSELF, A. J. Growing onions for seed. *Amateur Gard.* 65(3372): 13. Dec. 28, 1948. 80 Am13
- 34959 MALMONTE. Quelques observations. *Pomme de Terre Franç.* 12(114): 8-13. Feb. 1949. 75.8 P77
- 34960 MALMONTE. Une visite en Belgique. *Pomme de Terre Franç.* 11(112): 12-15. Dec. 1948. 75.8 P77
- 34961 MARKOV, V. M. Culture of white mushroom. (In Russian.) *Sad i Ogorod* 1948(8): 64-65. Aug. 1948. 87 Sal
- 34962 MARRITT, J. W. The Prairie Provinces' place in the certified seed potato industry. *West. Canad. Soc. Hort. Rpt. Proc.* 4: 45-48. 1948. 82 W522
- 34963 MARTINI. Ueber das vorkommen der frühkartoffeln. *Württemberg. Wchnbl. f. Landw.* 116: 96. Feb. 19, 1949. 18 W96
- 34964 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Varieties of vegetables recommended for Maryland in 1948, by E. K. Bender. College Park? 1948. 275.29 M36V
- 34965 MATTINGLEY, G. H. The potato crop; seed, planting and cultivation. *Victoria. Dept. Agr. J.* 46: 529-535. Dec. 1948. 23 V66J
- 34966 METCALF, J. Producing show leeks. *Amateur Gard. Ann.* 1949: 69. 80 Am12
- 34967 MEYER, A. Sweetpotato production and storage. *Tenn. Agr. Col. Ext. P.* 287, rev., 15 p. Feb. 1948. 275.29 T25
- 34968 MISHINKINA, V. V. Cauliflower under climatic conditions of Apsheron. (In Russian.) *Sad i Ogorod* 1948(7): 77-78. July 1948. 87 Sal
- 34969 MODENA, A. More observations on the behavior of the "Irish Cobbler" potato in Tuscany. (In Italian.) *Agr. Tosc.* 3: 378-380. Dec. 1948. 16 Ag827
- 34970 MOLFINO, J. F. Las especies medicinales de "ruibarbo." *Chacra* 19(220): 88-89. Feb. 1949. 9 C34
- 34971 MOMMELE, G. Rapport sur la déficience de rendement dans la reproduction des plants arrachés ou brûlés très tôt avant maturité. *Pomme de Terre Franç.* 12(114): 4-7. Feb. 1949. 75.8 P77
- 34972 MONOT, G. Essais de variétés. *Pomme de Terre Franç.* 12(114): 15-20. Feb. 1949. 75.8 P77
- 34973 MOORE, J. G., and COMBS, O. B. Growing onions in Wisconsin. *Wis. Agr. Col. Ext. Stencil C.* 283, 13 p. Dec. 1948. 275.29 W75B
- 34974 MORGAN, C. N. The choko. *Queensland Agr. J.* 67: 261-265. Nov. 1948. 23 Q33
- 34975 MURAIAMA, S. J. Cabbage culture. (In Portuguese.) *Rev. Agron.* [Porto Alegre] 12: 133-134. July/Sept. 1948. 9.2 R325
- 34976 MURAIAMA, S. J. Culture of chayote. (In Portuguese.) *Rev. Agron.* [Porto Alegre] 12: 135. July/Sept. 1948. 9.2 R325
- 34977 MYERS, J. H. How I grow tomatoes. *Flower Grower* 36: 222-224, 282. Mar. 1949. 80 M72
- 34978 NEGRE, M. Compte-rendu d'essais effectués dans l'Aveyron — expériences relatives aux arrachages échelonnés. *Pomme de Terre Franç.* 12(113): 15-20. Jan. 1949. 75.8 P77
- 34979 NOVIKOV, F. A. Practices of the leading potato growers. (In Russian.) *Sad i Ogorod* 1948(6): 52-54. June 1948. 87 Sal
- 34980 ODLAND, M. L., LARSON, R. E., and FI, L. P. Thick planting of lima beans improves yields in good weather. *Sci. Farmer* [Pa. Sta.], 1949: 11. Mar. 1949. 100 P381
- 34981 OLSEN, O. A. Potato research, University of Manitoba. *West. Canad. Soc. Hort. Rpt. Proc.* 4: 48-50. 1948. 82 W522
- 34982 ORLOV, V. N. A highly productive grafted potato hybrid. (In Russian.) *Selek. i Semen.* 15(6): 59-61. June 1948. 61.9 Se5
- 34983 ORMAN, A. C. Taking the gamble out of vegetable growing; interesting research developments. *Land* [Sydney] (Farm & Sta. Ann.) 1928: 55-56, 66. Oct. 20, 1948. 23 L22
- 34984 OSIPOV, K. I. Agricultural practices for high yields of potatoes in Cheliabinsk Region. (In Russian.) *Sad i Ogorod* 1948(6): 60-63. June 1948. 87 Sal
- 34985 OZOLINA, I. M. New method of growing seedlings of late cabbage. (In Russian.) *Sad i Ogorod* 1948(8): 55-56. Aug. 1948. 87 Sal
- 34986 PAEZ C., J. Fomento y perfeccionamiento del cultivo de la papa. *Agronomía* [Lima] 13(54): 19-38. 1948. 9.8 Ag83
- 34987 PÁEZ C., J. Investigaciones sobre el cultivo de la papa. *Vida Agr.* [Lima] 25: 1053, 1055, 1057, 1059, 1061, 1063-1064. Dec. 1948. 9.8 V66
- 34988 PAGUIRIGAN, D. Outline of Philippine crops. *Agr.-Com.-Indus. Life* 10(12): 30. Dec. 1948. 25 Ag8 Beets.
- 34989 PALAMARCHUK, A. S. Repeated selection of root crops during stages of development. (In Russian.) *Selek. i Semen.* 15(7): 32-36. July 1948. 61.9 Se5



- 34990 PALMER, E. L. Edible weeds. *Nature Mag.* 42: 178-181, 194. Apr. 1949. 409.6 N214
- 34991 PARKS, N. M. Impressions of potato growing in the Prairie Provinces gained from trips through the West in 1946 and 1947. *West. Canad. Soc. Hort. Rpt. Proc.* 4: 43-44. 1948. 82 W522
- 34992 PENA, F. DE LA. La judía o alubia. Spain. *Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg.* 23-48 H, 16 p. Dec. 1948. 15 H68
- 34993 PETERSON, C. E., and HABER, E. S. New storage onion developed for peat or muck soils; Iowa Yellow Globe 44. *Seed World* 64(4): 14, 16. Feb. 21, 1949. 61.8 Se52
- 34994 PIENING, L. Eyeing potatoes. *Bio-dynamics* 7: 18-20. Fall/Winter 1948. 56.8 B52
- 34995 POOLE, C. F. Baking sweet potato tests in Hawaii. *Amer. Soc. Hort. Sci. Proc.* 52: 307-310. Nov. 1948. 81 So12
- 34996 POTAPENKO, M. T. On organizing potato seed production. (In Russian.) *Selek. i Semen.* 15(6): 6-9. June 1948. 61.9 Se5
- 34997 QUARRELL, C. P. Growing lettuces under cloches. *Pop. Gard.* 50: 460, 464, 467. Jan. 29-Feb. 5, 1949. 80 G1622
- 34998 QUARRELL, C. P. Make your cold glass pay—spring-sown vegetable plants. *Nurseryman & Seedsman* 108: 42-44, 118-120. Jan. 6-13, 1949. 80 N933
- 34999 QUARRELL, C. P. Parsnips—their troubles and their returns. *Fruit, Flower, & Veg. Trades' J.* 95(6): 14. Feb. 5, 1949. 80 F946
- 35000 QUARRELL, C. P. Single & multiple frame cropping. *Nurseryman & Seedsman* 108: 452-454. Feb. 10, 1949. 80 N933  
Vegetable culture.
- 35001 QUARRELL, C. P. Tomatoes in frames. *Gard. Illus.* 66: 53. Mar. 1949. 80 G169
- 35002 QUÉBEC. MINISTÈRE DE L'AGRICULTURE. Le jardin de famille. Québec. *Serv. de l'Hort. Feuillet Hort.* 26, 8 p. 1948. 82 Q32
- 35003 RAHN, E. M. High lights of lima bean experiments, 1942-1948. *Peninsula Hort. Soc. Trans.* 62: 83-85. 1948. 81 P37
- 35004 RATERA, E. L. Ensayos realizados con semillas de papa (*Solanum tuberosum* L.). Buenos Aires U., *Facul. de Agron. y Vet. Rev.* 12: 37-46. Ref. Nov. 1948. 9 B863  
English summary.
- 35005 REBER, N. F. York County cantaloupes. *Pa. Farmer* 140: 187. Mar. 12, 1949. 6 P383  
Chiefly culture.
- 35006 REINHOLD, J. Zur frage der verträglichkeit der verschiedenen gemüsearten. *Süddeut. Erwerbsgärt.* 2: 60-61. Aug. 1948. 80 Su2
- 35007 RENARD, W. Gemüsebau mit getopften pflanzen. *Ceres [Hamburg]* 1948(9): 5-8. 80 C332
- 35008 RICHARDS, A. A. Outdoor tomatoes. *Amateur Gard. Ann.* 1949: 26. 80 Am12
- 35009 RICHARDS, A. A. Tomatoes for the first crop. *Amateur Gard.* 65(3374): 14. Jan. 11, 1949. 80 Am13
- 35010 RICHARDS, J. M. Ridge cucumbers and vegetable marrows. *Amateur Gard. Ann.* 1949: 90. 80 Am12
- 35011 ROCKWELL, F. F. Warming up the vegetable patch. *Home Gard.* 13(3): 43-46. Mar. 1949. 80 H756
- 35012 ROHDE, E. S. Jerusalem artichokes needn't be so "knobbly." *Smallholder* 80(2026): 7. Jan. 28, 1949. 10 Sm1  
Chiefly culture.
- 35013 ROLL-HANSEN, J. Directions for onion culture. (In Norwegian.) *Norsk Hageselskap. Minneliste for Hagedyrkere* 1949: 7-8. 86 N81
- 35014 SANDER, O. Anleitung zum feldgemüsebau. Stuttgart, Ulmer, 1948. 93 p. 91.13 Sa5
- 35015 SCHRÖDER. Kartoffelherkunftsprüfungen und pflanzkartoffelvermehrungsbau. *Landwirtschaftsblatt Weser-Ems* 95: 278. Dec. 10, 1948. 18 L2345
- 35016 SCHULTZ, J. H., and MATTSOHN, H. Sweet corn varieties and hybrids. *N. Dak. Agr. Expt. Sta. Bimo. B.* 11(3): 99-101. Jan./Feb. 1949. 100 N813B
- 35017 SENGUPTA, J. C., and MUKHERJI, D. K. Growth and development of 'mung' (*Phaseolus radiatus* Linn.). *Nature [London]* 163: 252-253. Feb. 12, 1949. 472 N21
- 35018 SHEWELL-COOPER, W. E. Rhubarb planting. *Fruit, Flower & Veg. Trades' J.* 95(5): 19. Jan. 29, 1949. 80 F946
- 35019 SHEWELL-COOPER, W. E. Strip-cropping with cloches. *Amateur Gard. Ann.* 1949: 46. 80 Am12
- 35020 SNELL, K., and GEYER, H. Die zugelassenen deutschen kartoffelsorten; ihre erkennung, unterscheidung und wirtschaftliche bewertung. Ed. 10, enl. Berlin, Parey, 1948. 84 p. 75 Sn2Z
- 35021 SNYDER, L. C. Vegetable variety tests. *Minn. Hort.* 77: 24-25. Feb. 1949. 81 M66
- 35022 SPRAGUE, MRS. H. R. Early tomatoes in the garden. *Organic Gard.* 14(3): 20. Mar. 1949. 56.8 Or3
- 35023 STELZNER, G., and TORKA, M. *Solanum macolae*, eine neue käferfeste wildkartoffel: weitere untersuchungen zur käferresistenz der tubarerien. *Züchter* 19(1/3): 68-69. 1948. 442.8 Z8
- 35024 TEUSCHER, H. Potager pour une famille de cinq. Ed. 3. Montreal. *Jard. Bot. B.* 3, 31 p. 1948. 451 M765
- 35025 THØGERSEN, A. The potato control. (In Danish.) *Dansk Landbr.* 68: 63-64. Feb. 2, 1949. 280.28 V91  
Culture, harvesting and diseases.
- 35026 TIURDENEV, A. P. Seed production of vegetable crops and potatoes in the extreme north. (In Russian.) *Sad i Ogorod* 1948(8): 57-59. Aug. 1948. 87 Sa1
- 35027 TUFFIN, H. R. Vegetables for exhibition. *Amateur Gard.* 65(3378): 19. Feb. 8, 1949. 80 Am13
- 35028 TURLAPOVA, A. P. In regard to planting only certified potatoes. (In Russian.) *Selek. i Semen.* 15(7): 16-19. July 1948. 61.9 Se5  
U. S. S. R.
- 35029 VAN DERLINDEN, L. What's wrong with Arizona-California tomatoes. *New Agr.* 31(5): 6-7. Feb. 1949. 66.8 Su32
- 35030 VAUGHAN, R. E. Prevent potatoes sprouting. *Wis. Agr. Col. Ext. Stencil C.* 281, 2 p. Oct. 1948. 275.29 W75B
- 35031 VERLINDEN, J. Le witloof, produit d'exportation. *Rev. de l'Agr.* 1: 896-902. Nov./Dec. 1948. 13 R322
- 35032 WALKER, J. C., POUND, G. S., and KUNTZ, J. E. Development of Wisconsin 55 tomato. *Wis. Agr. Expt. Sta. B.* 478, 20 p. Sept. 1948. 100 W75
- 35033 WALLACE, J. C. Can potato yields be increased? *Manx J. Agr. (n. s.)* 3(3): 19, 21, 23-26. Jan. 1949. 10 M312  
Methods of potato growing in the Isle of Man.
- 35034 WELCH, J. H. The spectacular rise of lettuce as a Rio Grande Valley crop. *Tex. Farming & Citric.* 25(8): 5, 19. Feb. 1949. 80 T31
- 35035 WEST, M. Are early sowings worth while? *Amateur Gard.* 65(3375): 14. Jan. 18, 1949. 80 Am13  
Vegetables.
- 35036 WHILLIS, J. Early care "makes" the shallot crop. *Smallholder* 80(2025): 7. Jan. 21, 1949. 10 Sm1
- 35037 WHITEHEAD, C. E. The potato in Fiji. *Fiji. Dept. Agr. Agr. J.* 19: 36-38. June 1948. 25 F47Ag
- 35038 WINDHAM, S. L. Aristogold Bantam leads in sweet corn variety test. *Miss. Farm Res. [Miss. Sta.]* 12(2): 1, 7. Feb. 1949. 100 M69Mi
- 35039 WINDHAM, S. L. Two pepper varieties recommended after tests at Truck Crops Station. *Miss. Farm Res. [Miss. Sta.]* 12: 1. Jan. 1949. 100 M69Mi
- 35040 WITTWER, S. H. Results, 1948 Michigan snap bean [variety] trials. *Mkt. Growers J.* 78(2): 13, 36. Dec. 1949. 6 M34
- 35041 WOLF, E. A., and STAIR, E. C. Effect of plant training and number of pollinations per cluster on production of F1 hybrid tomato seed in the greenhouse. *Amer. Soc. Hort. Sci. Proc.* 52: 350-354. Nov. 1948. 81 So12
- 35042 WORK, P. Growing early plants in the North. *Mkt. Growers J.* 78(2): 11, 30. Feb. 1949. 6 M34  
Growing plants under glass.
- 35043 WORK, P. Newer vegetables for home and market. *Amer. Agr.* 146: 130, 142. Mar. 5, 1949. 6 Am3
- 35044 WORK, P., and ELLE, G. O. Varieties of vegetables for 1949. *N. Y. Agr. Col. Cornell Ext. B.* 763, 16 p. Feb. 1949. 275.29 N48E



35045 WYNN, J. Show vegetables. Pop. Gard. 50: 478. Feb. 12, 1949. 80 G1622

35046 XAVIER FILHO, S. Beans. (In Portuguese.) Rev. Ceres 7: 410-416. June/Sept. 1948. 9.2 C332

35047 ZAITSEV, A. I. Pruning tomatoes grown in the field. (In Russian.) Sad i Ogorod 1948(6): 68-69. June 1948. 87 Sa1

#### WEEDS AND POISONOUS PLANTS

35048 AASHEIM, T. What about fallowing with chemicals? Mont. Farmer-Stockman 36(12): 1. Feb. 15, 1949. 6 M764

Controlling weeds on fallow.

35049 BABÉ, E. Note sur *Phelipæa coerulea*, C. A. Meyer. Feuille des Nat. (n. s.) 2: 38. Apr. 1947. 410 F432

35050 BARRONS, K. C. TCA [trichloroacetic acid]—a promising new chemical for grass control. Down to Earth 4(4): 8-9. Spring 1949. 381 D75

35051 BARROW, R. H. Chemical control of Johnson grass. Sugar B. 27: 162-163. Mar. 1, 1949. 65.9 Am32

35052 BENDER, E. K. Maryland studies and observations in chemical weed control. Peninsula Hort. Soc. Trans. 62: 88-90. 1948. 81 P37

35053 BRANDNER, E. L. TCA, a new chemical, kills harmful grasses and cactus. West. Farm Life 51 (5): 19. Mar. 1, 1949. 6 R153

Trichloroacetic acid.

35054 BROWN, A. L., and MCILVAIN, E. H. Suggested techniques for testing airplane application of herbicides. Agron. J. 41: 96-97. Feb. 1949. 4 Am34P

35055 BURGIS, D. S. Control of weeds in sweet corn with 2,4-D sprays. Mkt. Growers J. 78(3): 26, 38. Mar. 1949. 6 M34

35056 CHEVALIER, A. Une orchidée nuisible aux caféiers et aux cacaoyers cultivés à la Côte d'Ivoire. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 28: 463-464. Sept./Oct. 1948. 26 R323

35057 COHEN, G. Early spraying (before germination) for the eradication of weeds. (In Hebrew.) Has-sadeh 29: 104-106. Dec. 1948. 26 H27

35058 CORNS, W. G. Field experiments with chemical weed-killers during 1948. Alberta. U. Dept. Plant Sci. Seasonal Notes 34: 5-6. Jan. 8, 1949. 64.9 AL12

35059 COULTER, L. L. Aerial application of 2,4-D alkanolamine salt in water shows promise on small grains. Down to Earth 4(4): 13. Spring 1949. 381 D75

35060 CRAFTS, A. S., and EMANUELLI, A. J. Eradicación de yerbajos. Asoc. de Téc. Azucareros de Cuba. B. Ofic. 7: 359, 361-365. Jan. 1949. 65.9 As5B

35061 DANIELSON, L. L. A progress report on chemical weed control in vegetable crops. Peninsula Hort. Soc. Trans. 62: 90-92. 1948. 81 P37

Includes discussion.

35062 DANIELSON, L. L. Weed control in strawberries. South. Planter 109(10): 46, 47. Oct. 1948. 6 So89

35063 DANIELSON, L. L. Weeding sweet corn with 2,4-D. South. Planter 109(11): 28, 29. Nov. 1948. 6 So89

35064 DAVID, R. L'influence herbicide du phényl-carbamate d'isopropyle, du 2,4-dichlorophénoxyacétate d'éthyle et de la chloropicrine. Paris. Acad. des Sci. Compt. Rend. 228: 198-200. Jan. 10, 1949. 505 P21

35065 DODD, A. P. Noogoora burr [*Xanthium strumarium*] in relation to the wool industry, and the use of hormone weed killers. (Sum.) Austral. Inst. Agr. Sci. J. 14: 192-193. Dec. 1948. 23 Au74

35066 DRUMMOND, O. A., and ROBBINS, W. W. The latest results in weed control. (In Portuguese.) Rev. Ceres 7: 376-382. June/Sept. 1948. 9.2 C332

35067 EDWARDS, M. V. *Eupatorium odoratum* Linn. as a fish poison. Indian Forester 74: 164. Apr. 1948. 99.8 In2

35068 ELDER, W. C. Trichloroacetate (T C A) for Bermuda grass and Johnson grass control. Okla. Agr. Expt. Sta. Mimeog. C. M-180, 5 p. Mar. 1949. 100 Ok4M

35069 ELLIS, N. K. 2,4-D finds a place in potato production. Down to Earth 4(4): 14-15. Spring 1949. 381 D75

35070 FARMER, W. H. Windmill weed-killer or aerial war on weeds. Reclam. Era 35: 39. Feb. 1949. 156.84 R24

2,4-D sprayed from a helicopter.

35071 FLEETWOOD, J. R. The use of 2,4 D to control weeds. Mo. Farmer 41(2): 3, 5. Feb. 1949. 6 M696

35072 FORD, T. War against hyacinths. Ala. Conserv. 20(8): 7, 26. Feb. 1949. 279.8 AL1

Waterhyacinths.

35073 FOSTER, R. L. Report on weed killers. Cap-per's Farmer 60(3): 11, 102. Mar. 1949. 6 M693

35074 FRANSEN, J. J. Weed control with growth substances. (In Dutch.) Tuinbouw 4: 14-15. Jan. 1949. 80 T815

35075 FRY, H. S. Manitoba attacks leafy spurge. Country Guide 68(2): 9, 28-29. Feb. 1949. 7 G76

35076 FULDE, M. Zur unkrautbekämpfung im getreide. Landwirtschaftsblatt Weser-Ems 95: 278-279. Dec. 10, 1948. 18 L2345

35077 GRIGSON, G. A poisoner's garden. Country Life [London] 105: 475. Mar. 4, 1949. 80 C83

35078 HAGEN, C. Weed control frenzy now settling down. Oreg. Farmer 72: 108, 111, 121, 136. Feb. 17, 1949. 6 Or32

35079 HARING, R. C. Weed control in Glads. North Amer. Gladiolus Council. B. 17: 61, 63. Mar. 1949. 96.43 N81

35080 HOLMES, E. Up-to-date weed killing. Scot. Farmer 57: 334. Jan. 8, 1949. 10 Sco8

Also in Farmers' Club, London. J. 1949(1): 1-8. 10 L84

35081 HUBERT, B. Weed control. (In Dutch.) Chron. Nat. 104: 306-310. Nov. 1948. 514 B31

35082 JOYCE, J. J. Weeds of the beet field. Beet Grower 2: 359-363. Jan. 1949. 66.8 B392

35083 KEPHART, L. W. Make research dollars kill weeds. Wash. Farmer 74: 157, 171. Mar. 3, 1949. 6 R151

35084 KIRCHER, W. H. More spraying in '49; recommendations for applying 2,4-D. Farmer [St. Paul], Gen. Ed. 67(4): 7, 67. Feb. 19, 1949. 6 F2211

35085 KLOSTERMAN, H. J., and CLAGETT, C. O. Does 2,4-D adversely affect the value of the flax crop? N. Dak. Agr. Expt. Sta. Bimo. B. 11(3): 96-98. Jan./Feb. 1949. 100 N813B

35086 LACHMAN, W. H. Controlling weeds with Stoddard Solvent. Mkt. Growers J. 78(3): 18. Mar. 1949. 6 M34

35087 LAFOREST, G. L'emploi des hormones comme desherbants sélectifs. Unité Paysanne 3(164): 1, 4. Dec. 25, 1948. 14 Un3

35088 LEE, O. C. No rest for weeds. Breeder's Gaz. 114(4): 14. Apr. 1949. 49 B74

35089 LEE, O. C. Weeding corn and other crops with 2,4-D. Surge News 1948/49: 2. Winter 1948/49.

35090 MARCHETTANO, E. Among the herbs of alpine pastures; mortality of animals through poisoning. (In Italian.) Allevatore 4(42): 4. Oct. 17, 1948. 49 AL55

35091 MARTIN, R. Ragweeds, bless 'em! Farmer-Stockman 62(2): 3, 26. Feb. 1949. 6 Ok45

Effects on the soil.

35092 MASON, J. Report on 2,4-D for pre-emergence weed control. Flower Grower 36: 239, 277. Mar. 1949. 80 M72

35093 MEENEN, F. E., and TIMMONS, F. L. Use of herbicides in production of buffalograss seed. Agron. J. 41: 98-99. Feb. 1949. 4 Am34P

35094 MERCER, A. D. Control of pasture weeds in Tailevu. Fiji Dept. Agr. Agr. J. 19: 33-34. June 1948. 25 F47Ag

35095 MURILLO ESQUIVEL, N. El uso de herbicidas. Suelo Tico 1: 218-223. Oct. 1948. 8 Su2

35096 NORTH CENTRAL WEED CONFERENCE. POLICY COMMITTEE ON HERBICIDES. Report. Agr. Chem. 4(2): 37, 39, 41, 71, 73. Feb. 1949. 381 Ag8

35097 OGILVIE, A. S. The control of weeds and reeds. Country Life [London] 105: 266. Feb. 4, 1949. 80 C83

35098 PETERSEN, H. I. Can seed of wild oats be destroyed in milling? (In Danish.) Dansk Landbr. 68: 45-47. Jan. 27, 1949. 280.28 V91



35099 PHILIBERT, M. Desherberons-nous nos rizières avec le 2,4-D? Bouches du Rhone Agr. 22 (96): 6. Feb. 15, 1949. 14 B662

35100 PINGREE, G. Poison ivy. Safety Ed. 28(8, sect. 1): 4-5, 32. Apr. 1949. 449.8 Sa12

35101 PISONI, C. Modern weed control. (In Italian.) Agr. Bresciana 2(2): 2. Jan. 12, 1949. 16 Ag89

35102 PROVAGLIO, G. Weeds. (In Italian.) Agr. Bresciana 2(4): 1. Jan. 26, 1949. 16 Ag89

35103 RAHN, E. M., and SCHELL, C. E. Chemical weed control in sweet corn and asparagus. Peninsula Hort Soc. Trans. 62: 87-88. 1948. 81 P37

35104 RECHENTHIN, C. A. Bitterweed no problem when grass is given a chance. Grass is the ranchman's crop. Sheep & Goat Raiser 29(5): 12-15. Feb. 1949. 45.8 Sh3

35105 RICHARDSON, T. C. 2,4-D and caution get weeding done. Farmer-Stockman 62(3): 5, 35. Mar. 1949. 6 Ok4

35106 ROBBINS, W. W. Control de las malezas. Rev. Argentina de Agron. 15: 257-260. Dec. 1948. 9 R327

35107 RUSSELL, S. S. Chemical weed killers bring better right-of-way maintenance. Elect. World 131(11): 110-111, 193. Mar. 12, 1949. 335.8 EL2

35108 RYNES, S. E. House ivy dermatitis. Ann. Allergy 7: 62-64. Ref. Jan./Feb. 1949. 448.8 An72

35109 SAINT-QUENTIN, M. Un dangereux ennemi des fourrages: l'orobanche. Rustica 22: 102. Jan. 30, 1949. 14 R92

35110 SHANKLAND, H. 2,4-D tough on sage brush. Kans. Farmer 86(3): 12. Feb. 5, 1949. 6 K13

35111 SPANGELO, L. P. Weed control in vegetable crops with selective herbicides. West. Canad. Soc. Hort. Rpt. Proc. 4: 54-57. 1948. 82 W522

35112 STAHLER, L. M., and DERSCHEID, L. A. Cultural methods of noxious weed control in South Dakota. S. Dak. Agr. Expt. Sta. C. 75, 8 p. June 1948. 100 So82

35113 SWIFT, J. E. Weeds in flax; chemical control of grasses and broadleaved weeds in Imperial County. Calif. Agr. [Calif. Sta.] 3: 11, 14. Jan. 1949. 100 C12Cag

35114 TINGEY, D. C. Quality and yield of winter wheat only slightly affected by use of 2,4-D in weed control. Farm & Home Sci. [Utah Sta.] 10: 12-13. Mar. 1949. 100 U1F

35115 U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Control of weeds in corn with chemicals, by L. W. Kephart and L. S. Evans. Beltsville, 1948. 6 p. 1.965 C2C764

35116 U. S. FOREST SERV. Control of brush by chemical sprays, by J. E. Sanderson. Washington, 1949. 5 p. 1.9621 R1C76

35117 VAN GELUWE, J. Chemical weed control in small grains. Amer. Agr. 146: 128. Mar. 5, 1949. 6 Am3

35118 VAN GELUWE, J. Weed killers are here! Amer. Agr. 146: 68, 77. Feb. 5, 1949. 6 Am3

35119 VIDME, T. Weed control in gardening. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1949: 3-6. 86 N81

35120 VOSKUIL, W. C. Winning the weed war. Wis. Agr. & Farmer 76(2): 9. Jan. 15, 1949. 6 W751

35121 WADD, J. C. Cleaning the ground with potatoes. Amateur Gard Ann. 1949: 45. 80 Am12

35122 WILLARD, C. J., and SHAW, W. C. Chemicals control weeds in field crops. Ohio Farm & Home Res. [Ohio Sta.] 33: 188-192. Nov./Dec. 1948. 100 Oh3S

35123 WILLIAMS, J. R. A preliminary account of the project for the control of Cordia macrostachya (Jacq.) Roem. & Schult. (Herbe Condé), in Mauritius. Rev. Agr. de l'Île Maurice 27: 214-233. Ref. Sept./Oct. 1948. 24 M44

35124 WOLF, D. E. Progress in chemical weed control. Agr. Engin. 30: 78-80. Feb. 1949. 58.8 Ag83

35125 ZINK, F. W. Chemicals control weeds in onions and garlic. Calif. Farmer, South. Ed. 190: 138. Feb. 12, 1949. 6 C126A

35126 ZOBELL, H. D. Weeds, an expensive pest. Sugar Beet 8: 20-21. Mar. 1949. 66.8 Su34B

35127 ZOCCOLINI, S., and FEDI, Z. Poisoning by Mercurialis annua. (In Italian.) Clin. Vet. [Milan] 71: 389-390. Dec. 1948. 41.8 C61

#### MISCELLANEOUS ECONOMIC PLANTS (Drug, Dye, Rubber, Etc.)

35128 AKADEMIJA NAUK. BOTANICHESKIY INSTITUT. OTDEL RASTITEL'NYKH RESURSOV. Metodika polevogo issledovaniya syr'evykh rasteniy [Methods of field investigations of economic plants]. Moskva, 1948. 250 p. 452.8 Ak1

35129 ALGEMEEN PROEFSTATION DER A.V.R.O.S. Verslag [Report], 1940. Alg. Proefsta. der A.V.R.O.S. Meded. Alg. Ser. 60, 59 p. 1948. 78.9 AL3Me

Algemeene Vereeniging van Rubberplanters ter Oostkust van Sumatra.

35130 ARIAS, J. B. Plantas utiles al campesino colombiano. Rev. Agr. y Ganad. 11(110): 25-26. Dec. 1948/Jan. 1949. 9.4 R327

35131 AVSARAGOV, A. KH. Field germination of kok-saghyz seeds. (In Russian.) Sovet. Agron. 6(6): 51-58. June 1948. 20 So84

35132 BAEZ, C. R., FISHER, H. G., and SIVORI, E. M. Plantas caucheras; especies de la flora autóctona e introducidas y posibilidades de su explotación. La Plata. U. Nac. Facul. de Agron. Rev. 26: 183-200. 1948. 9 R32

Euphorbia portulacoides and Taraxacum kok-saghyz.

35133 BAMONTE, T. The olive in the economic history of the Farfa monastery. (In Italian.) Olivicultura 3(12): 8-16. Ref. Dec. 1948. 80 OL42

35134 BARRETO, J. R. DOS R. Medicinal plants of Goa. (In Portuguese.) Portugal. Agência Geral das Colón. B. Geral das Colón. 24(278/279): 68-90; (280): 48-86. (Cont.) Aug./Sept.-Oct. 1948. 264 Ag3

35135 BEALES, P. S. Colour from trees. Trees [Dorchester] 12: 141-143. Winter 1948. 99.8 T714

35136 BLIN, H. Pour produire de l'ail. Acclimatation 76: 5. Jan. 29, 1949. 14 Ac2

35137 BRENNER, L. G. Food for thought, for quail. Mo. Bot. Gard. B. 37: 48-53. Feb. 1949. 451 M69B

35138 CAMP, W. H. Cinchona at high altitudes in Ecuador. Brittonia 6: 394-430. Ref. Feb. 21, 1949. 450 B77

35139 CHAVARRÍA FLORES, R. A. Algunos recursos de interés industrial para nuestro país. Suelo Tico 1: 153-156. (Cont.) Sept. 1948. 8 Su2

35140 CHEN, Y. L., and CHEN, S. C. Chemical studies of the insecticidal plant "Tripterygium forrestii Loes." I. (In Chinese.) Soc. Chin. Trop. Agr. J. 1: 8-11. Sept. 1948. 26 Sol4

English summary.

35141 CHEVALIER, A. Les lianes à caoutchouc de l'Afrique tropicale. Rev. Internatl. de Bot. Appl. d'Agr. Trop. 28: 390-421. Ref. Sept./Oct. 1948. 26 R323

35142 CHEVALIER, A. Une plante oléagineuse africaine. (Tetracarpidium conophorum Hutch. et Dalziel.). Rev. Internatl. de Bot. Appl. d'Agr. Trop. 28: 465-466. Sept./Oct. 1948. 26 R323

35143 COIT, J. E. Carob culture in the semi-arid Southwest. San Diego, Rittenhouse, 1949. 15 p. 99.47 C66

35144 COMPAGNON, P., and ZILLER, R. L'Institut des Recherches sur le Caoutchouc en Indochine. Inst. des Rech. sur le Caoutchouc en Indochine. Cahiers I. R. C. I. 3: 1-12. 1948. 78.9 In7

35145 CORKILL, N. L. The poisonous wild cluster yam, Dioscorea dumetorum Pax, as a famine food in the Anglo-Egyptian Sudan. Ann. Trop. Med. & Parasitol. 42: 278-287. Ref. Dec. 1948. 448.9 L75A

35146 CORRIN, W. My herb garden. My Gard. 38: 179-183. Feb. 1949. 80 M995

35147 CUCALÓN TEJERO, E. Las aceitunas negras para mesa. Cult. Mod. 31: 453-454. Dec. 1948. 15 C89

35148 CUCALÓN TEJEIRO, E. Dos variedades de olivos con alta producción. Vinos, Viñas y Frutas 44: 288-290. Dec. 1948. 9 Ag89



35149 DEUTSCHE WIRTSCHAFTSKOMMISSION. HAUPTVERWALTUNG LAND- UND FORSTWIRTSCHAFT. Sortenliste der in der sowjetischen besatzungszone zugelassenen sorten von kulturpflanzen. Berlin, Deutscher Zentralverlag, 1948. 24 p. 459.3 D48

35150 EATON, E. M. A sample garden of simples. Amer. Home 41(4): 54-55, 139-140. Mar. 1949. 80 Am313

35151 EHRET, M. Etude sur la sélection de l'Hevea en Indochine. Inst. des Rech. sur le Caoutchouc en Indochine. Cahiers I. R. C. I. 3: 13-31. 1948. 78.9 In7

35152 ESDORN, I. Kampferbasilikum, eine neue kampferquelle. Z. f. Weltforstw. 12: 200-204. Dec. 1948. 99.8 Z35

English and French summaries.  
Ocimum canum.

35153 FINCH, F. H. Yerba planting in Argentina. Rev. River Plate 105(2982): 24-25. Feb. 4, 1949. 286.8 R32

35154 FOSTER, G. B. Late planting best for herbs: November seed sowing. Horticulture 26: 412. Nov. 1948. 80 H787

35155 FUMI, R. Medicinal plants. (In Italian.) Riv. Ital. Essenze, Profumi, Piante Off., Olii Veg., Saponi 31(1): 8. Jan. 15, 1949. 308.8 R52

35156 GILBERT, S., and LAGASSE, F. S. Accelerating germination of seed in winter. Tung World 4: 11, 17-18. Jan. 1949. 77.8 T83

35157 GOKRAN, M. A. Katha manufacture in Bhatkal and Coondapur Ranges. Indian Forester 74: 173. Apr. 1948. 99.8 In2  
Catechu acacia.

35158 GRUNENBERG, M. Wir färben mit einheimischen "kräutern." Gartenfreund f. Junggärt. 1(12): 5-6. Dec. 1948. 80 G1935

35159 HOWES, F. N. Vegetable sources of drying oils. Research 2: 68-73. Ref. Feb. 1949. 472 R31

35160 JAYME, G., HINDENBURG, K. G., and HARDERS-STEINHÄUSER, M. Eignungsvergleich verschiedener einjahrespflanzen als rohstoff für papiersulfatzellstoffe. Papier 2: 95-105. (Cont.) Mar. 1948. 302.8 P1934

35161 JOLY, R. L. La culture des plantes à parfums et aromatiques en Algérie; perspectives d'avenir. Indus. de la Parfumerie 4(1): 13-14. Jan. 1949. 308.8 In2

35162 KILBY, W. W. Recent research in breeding and selection of tung. Amer. Soc. Hort. Sci. Proc. 52: 81-87. Ref. Nov. 1948. 81 So12

35163 KING, E. Medicine value of plants recognized by trial and error of pioneer settlers. Sunday Oregonian, Farm, Home, Gard. 1949: 3. Jan. 16, 1949. 6 Su7

35164 LAGASSE, F. S., POTTER, G. F., and BLACKMON, G. H. Relative variability of fruits of seedling and budded tung trees. Amer. Soc. Hort. Sci. Proc. 52: 107-111. Nov. 1948. 81 So12

35165 MARTINEZ CROVETTO, R. Notas sobre plantas indígenas cultivadas en la Argentina. Argentina. Dir. Gen. de Labs. e Invest. Rev. de Invest. Agr. 2: 105-116. Ref. July 1948. 9 R329

35166 MENDES, J. E. T. Grafting the coffee-tree. III. (In Portuguese.) São Paulo. Supt. dos Serv. do Café, B. 23: 386-391. June 1948. 68.29 Sa63

35167 NEUMANN, F. Eine neue beerenfrucht: die erdkirsche. Gartenjahr 4: 22-23. Feb. 1949. 80 G1932

35168 NORMANHA, E. S., and PEREIRA, A. S. Best time of planting for cassava. (In Portuguese.) Colheitas e Mercados 4(7/8): 37-42. July/Aug. 1948. 255.3 Sa652

35169 NOSTI, J. El problema del caucho. Agricultura [Madrid] 17: 564-567. Dec. 1948. 15 Ag84

35170 PABLO DUQUE, J. El café en la República Dominicana; problemas relativos a la producción. Dominican Repub. Comm. de Defensa del Café y del Cacao. B. Inform. 5(39/40), 13 p. Nov./Dec. 1948. 286.3689 D71

Climatic factors.

35171 PEDERSEN, A. Agricultural plant cultivation. In The humanities and the sciences in Denmark, p. 580-583. Copenhagen, E. Munksgaard, 1948. 330 H882

35172 POLITIS, H. Flowers in the herb garden. Golden Gard. 13: 69. Jan. 1949. 80 G56

35173 POLOVENKO, I. S. Culture of kok-saghyz on peat bogs and flood plains. (In Russian.) Sovet. Agron. 6(6): 43-50. June 1948. 20 So84

35174 QUEVREUX, A. Une richesse ignorée, le genêt. Monit. Agr. 2(54): 6. (To be cont.) Jan. 23, 1949. 14 M744

35175 RADZHABLI, A. D. The wild olive. (In Russian.) Sad i Ogorod 1948(8): 75-76. Aug. 1948. 87 Sa1

35176 RAMOS LARA, M. Atención a cafetos adultos. Café de El Salvador 29: 1093-1094. Dec. 1948. 68.28 C112

35177 RANGHEL GALINDO, A. Las terrazas individuales, sus características y su aplicación a los cafetales colombianos. Agr. Trop. Sup. Agron 5: 39-46. Jan. 1949. 26 Ag8

35178 REDDY, M. L. Spacing trials on chillies, (Capsicum annum). Madras Agr. J. 35: 399-402. Dec. 1948. 22 M262

35179 REED, C. A. J. F. Jones, introducer of many nut varieties. Peanut J. & Nut World 22(12): 71-72, 74-77. Oct. 7, 1948. 77.8 P313

35180 RIVA, F. P. DE LA. Variedades de café. Asoc. Nac. de Caficultores. P. Ser. B 1, 72 p. Ref. 1948. 68.29 As5

35181 ROMANNÉ-JAMES, MRS. C. Bracken—the female fern. Guild Gard. 24(2): 8. Feb. 1949. 80 G94

35182 RONECKER, F. Majoran-kultur. Ceres [Hamburg] 1948(5/6): 12. 80 C332

35183 SAULES, C. L. DE. Reflections on the Ambay Ambayba [Cecropia] and its use in the treatment of cancer. (In Portuguese.) Rev. da Flora Med. 15: 411-420. Oct. 1948. 71.8 R32

35184 SCHOONNEVELDT, J. C. VAN. Tree number and thinning in the rubber plantation. (In Dutch.) Bergcultures 17: 109, 111, 113. Nov. 1, 1948. 22.5 B45

35185 SCHÜTZE, P. Vom heilkräftigen holunder. Kleingärt. u. Siedler 2: 99. Sept. 1948. 80 K67

35186 SIEVERS, A. F. Production of drug and condiment plants. U. S. D. A. Farmers' B. 1999, 99 p. Washington, 1948. 1 Ag84F

35187 SÍVORI, E. M. Estudios sobre fisiología, morfología y selección de "Taraxacum kok-saghyz", Rodin. La Plata. U. Nac. Facul. de Agron. Rev. 26: 201-234. Ref. 1948. 9 R32

35188 SKUTCH, A. F. The Panama-hat plant. Nature Mag. 42: 173-174. Apr. 1949. 409.6 N214  
Hat Carludovica.

35189 TATTERSFIELD, F., and others. Insecticides derived from plants. Kew B. 1948: 329-349. Ref. 451 K51B

C. Potter, K. A. Lord, Mrs. E. M. Gillham, M. J. Way, and R. I. Stoker, joint authors.

35190 TATTERSFIELD, F. Production of pyrethrum in England. Angew. Chem. Ausg. B. (n. s.) 12: 127-131. Mar. 1949. 384 C428

35191 TAYLOR, C. A. Observations on the storage and germination characteristics of Angelica seed. Amer. Soc. Hort. Sci. Proc. 52: 471-474. Nov. 1948. 81 So12

35192 TIMM, E. Heilmittel aus der pflanze. Natur u. Tech. 2: 430-433. Nov. 15, 1948. 474 N215

35193 TISCORNIA, M. A. Contenido de caucho en "Taraxacum kok-saghyz." Métodos de análisis. Influencias morfológicas y climáticas. La Plata. U. Nac. Facul. de Agron. Rev. 26: 259-276. 1948. 9 R32

35194 WARD, K. M. Cape gooseberry growing. Queensland Agr. J. 67: 258-260. Nov. 1948. 23 Q33

35195 WARREN, R. L. Planting herbs in the garden. Home Gard. So. 9: 64-65. Mar. 1949. 80 H755

35196 WILDEMAN, E. DE. À propos de médicaments antiléproux d'origine végétale. XII. Inst. Roy. Colon. Belge. Sect. des Sci. Nat. et Méd. Mém. 17(4), 114 p. 1948. 504 B8362M

## SOILS AND FERTILIZERS

### SOIL SCIENCE

35197 BORDAS, J., MATHIEU, G., and HUGUET, F. Étude des sols et mise en valeur des marais de Morestel. Ann. Agron. 18: 641-658. Nov./Dec. 1948. 14 An75A



35198 DAMSGAARD-SØRENSEN, P. Rural-economic soil science, manuring, soil melloration, and experimental technique. In *The humanities and the sciences in Denmark*, p. 573-579. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882

35199 DWORAK, L. A "primitiv" gyakorlat szambavétele mint a talajtani kutatás kezdete [The introduction of the "primitive" practice into the soil-research]. *Növénytermelési Kutatások* (ser. 6) 6, 8 p. 1948. 281.8 N85

English summary.

35200 GEZE, B. Méthode d'étude de la zonalité pédogénétique par la paléopédologie. *Paris. Acad. des Sci. Compt. Rend.* 228: 333-334. Jan. 24, 1949. 505 P21

35201 GORSHENIN, K. P. Trends in soil-geographic research. (In Russian.) *Pochvovedenie* 1948: 534-538. Sept. 1948. 57.8 P34

In U. S. S. R.

35202 KLINTWORTH, H. Desert encroachment over the Karoo. *Farming So. Africa* 23: 723-728. Nov. 1948. 24 So842

Changes in soil, vegetation and climate.

35203 MACAULAY INSTITUTE FOR SOIL RESEARCH. Annual report, 1947/48. Aberdeen, 1948. 31 p. 56.9 M11A

35204 MONAGHAN, B. Newton, Iowa FFA learns soil problems—first hand. *Better Farming Methods* 21(3): 68. Mar. 1949. 58.8 B46

35205 MORWICK, F. F. Soils education in the colleges. *Agr. Inst. Rev.* 4: 26-30. Jan. 1949. 7 Ag8

35206 NORVAL, R. Is South Africa becoming a desert? (In Afrikaans.) *Landbouweekblad* 30(1535): 33, 38. Dec. 15, 1948. 24 L232

35207 PUTNAM, D. F. Soils education in secondary schools. *Agr. Inst. Rev.* 4: 33-34, 37. Jan. 1949. 7 Ag8

35208 SALTER, R. M. A look ahead in soils and crops research. Washington, U. S. Bur. Plant Indus., Soils, and Agr. Engin., 1949. 12 p. 1.965 A25A3

35209 VENEZUELA. DIRECCIÓN DE AGRICULTURA. DEPARTAMENTO DE SUELOS. Estudio agrológico de la zona del Central Tacarigua, Estado Carabobo, by R. V. Peña. Caracas, 1948. 25 p. 56.23 V55Ec

35210 VENEZUELA. DIRECCIÓN DE AGRICULTURA. DEPARTAMENTO DE SUELOS. Levantamiento edáfico y estudio agrológico de la zona Valera-Motatan, Estado Trujillo, by S. J. Strebin and R. Gondelles Amengual. Caracas, 1948. 58 p. 56.23 V55L

#### Soil Physics

35211 ALDERFER, R. B. A study of the factors affecting the structure, permeability and erodibility of soils. *Pa. State Col. Abs. Doct. Diss.* (1947) 10: 17-23. 1948. 241.8 P38

35212 BROWNING, G. M., and WILSON, H. A. Soil that breathes. *Ky. Farmer* 85(2): 4-5. Feb. 1949. 6 F2237

35213 CHANG, L. Y., LI, L. Y., and CHOU, C. Y. The mechanical analysis of some soils near Kushan, Foochow. (In Chinese.) *Fukien Agr. J.* 9: 163-168. June 1948. 22.5 F95

English summary.

35214 GAEL, A. G. Freezing and thawing of soils in Priaral'e during the winter of 1946/47. (In Russian.) *Pochvovedenie* 1948: 429-444. July 1948. 57.8 P34

35215 KIRKHAM, D., and FENG, C. L. Some tests of the diffusion theory, and laws of capillary flow, in soils. *Soil Sci.* 67: 29-40. Ref. Jan. 1949. 56.8 So3

35216 LEES, H. The soil percolation technique. *Plant & Soil* 1: 221-239. Ref. Jan. 1949. 450 P696

35217 LI, C. S., and LI, L. Y. The determination of field capacity and wilting coefficient of some soils near Kushan, Foochow. (In Chinese.) *Fukien Agr. J.* 9: 169-180. Ref. June 1948. 22.5 F95

English summary.

35218 MCHENRY, J. R., and NEWELL, L. C. Residual effect of some perennial grasses on the structure of an eastern Nebraska fine-textured soil. *Agron. J.* 41: 76-78. Ref. Feb. 1949. 4 Am34P

35219 PROTSEROV, A. V. Accumulation of precipitation by the soil during the cold period in European U. S. S. R. (In Russian.) *Voprosy Geog.* 7: 158-161. 1948. 331.8 V89

35220 TIULIN, A. F. Method of separating large particles of soil dust into aggregated and non-aggregated parts and thus determining the two fundamental types of dust aggregation. (In Russian.) *Pochvovedenie* 1948: 421-428. Ref. July 1948. 57.8 P34

35221 TSYGANOV, M. S. Perennial grasses as re-builders of soil structure. (In Russian.) *Pochvovedenie* 1948: 561-568. Ref. Sept. 1948. 57.8 P34

#### Soil Chemistry and Mineralogy

35222 ALVSAKER, E. Determination of the humus content of the soil through the aid of a modified Waksman procedure. (In Norwegian.) *Nord. Jordbrugsforsk.* 1948: 740-748. 11 N752

35223 BARBIER, G., CHABANNES, J., and DURROUX, M. Retour spontané à l'état mobile, dans le sol, de la fraction dite rétrogradée des engrais phosphatés et potassiques. *Ann. Agron.* 18: 521-527. Sept./Oct. 1948. 14 An75A

35224 BEATER, B. E. A rapid method for obtaining readily soluble phosphates and phosphate fixation in soils. *Plant & Soil* 1: 215-220. Jan. 1949. 450 P696

35225 BONDORFF, K. A. Soil analysis and field experiments. (In Danish.) *Nord. Jordbrugsforsk.* 1948: 749-762. 11 N752

Discussion, p. 762-764.

35226 BOSWELL, J. G. Observations on the measurement of hydrogen-ion concentration in soils. *Soil Sci.* 67: 23-27. Jan. 1949. 56.8 So3

35227 COLLIER, D. À propos d'une critique sur la technique calcimétrique. *Ann. Agron.* 18: 714-717. Nov./Dec. 1948. 14 An75A

35228 DAVIS, E. J. The meaning of pH. *Bio-dynamics* 7: 13-15. Fall/Winter 1948. 56.8 B52

35229 DMITRENKO, P. A. Phosphorus content in the organic part of soils. (In Russian.) *Pochvovedenie* 1948: 495-501. Ref. Aug. 1948. 57.8 P34

35230 DRAGUNOV, S. S., ZHELOKHOVTSOVA, N. N., and STRELKOVA, E. I. Comparative analysis of soil and peat humic acids. (In Russian.) *Pochvovedenie* 1948: 409-420. Ref. 57.8 P34

35231 EGNÉR, H. Soil analysis and field experiments. Some new laboratory investigations. (In Swedish.) *Nord. Jordbrugsforsk.* 1948: 765-771. 11 N752

35232 GERRETSEN, F. C. On the use of *Aspergillus niger* for the determination of plant nutrients in the soil. *Analyt. Chim. Acta* 2: 782-791. Dec. 1948. 381 An1

Discussion, p. 791-792.

Summary in French and German.

35233 GROGGER, H. If you can judge cows you can judge land. *Better Farming Methods* 21(3): 20-21, 38-39. Mar. 1949. 58.8 B46

Soil analysis.

35234 HESTER, J. B. The fate of phosphate soil supplements. *Amer. Fert.* 110: 11, 24, 26. (Cont.) Ref. Jan. 8, 1949. 57.8 Am3

35235 INSTITOUTON CHEMEISS KAI GEORGAS "NIKOLAOS KANELLOPOYLOS." Dia na gnōrisoun kallitera oi ellenes tous agrous ton; 9000 edaphologikai analyseis apo olokiēron ten Ellade [Toward better knowledge of the land of Greece; 9000 soil analyses for all of Greece]. n. p., 1948. 128 p. 56.42 In7

35236 KORABLEVA, L. I. Effect of protracted lime treatment on acidity of Podzolic soils. (In Russian.) *Pochvovedenie* 1948: 569-575. Ref. Sept. 1948. 57.8 P34

35237 LEE, C. K. A study of methods of extraction and determination of the available nutrients in soils. Urbana, 1948. 6 p. 56.43 L51

Abstract of thesis - Univ. of Illinois.

35238 MARGULIS, H., and GANE, J. Action de l'alumine sur l'acide arsénieux. *Ann. Agron.* 18: 559-561. Sept./Oct. 1948. 14 An75A

35239 MULDER, E. G. The microbiological estimation of copper, magnesium and molybdenum in soil and plant material. *Analyt. Chim. Acta* 2: 793-800. Dec. 1948. 381 An1

Summary in French and German.

35240 PERKINS, A. T. Reactions of muscovite, bentonite, and their treated residues. *Soil Sci.* 67: 41-46. Ref. Jan. 1949. 56.8 So3



35241 PETERSON, D. F., JR., REEVE, R. C., and ALLISON, L. E. Removal of salts by leaching found feasible and economical at Delta. *Farm & Home Sci. [Utah Sta.]* 10: 10-11, 17. Mar. 1949. 100 U1F

35242 PROCTER, C. Under glass: how to use the soil auger. *Grower [London]* 31: 444-445. Mar. 5, 1949. 286.83 M34

35243 PURVIS, E. R., and HANNA, W. J. Rapid electroanalysis of soils in dilute boric acid solution. *Soil Sci.* 67: 47-52. Jan. 1949. 56.8 So3

35244 SOKOLOV, D. F. On the presence of some organic compounds of phosphorus in soils. (In Russian.) *Pochvovedenie* 1948: 502-513. Ref. Aug. 1948. 57.8 P34

Phosphatides and nucleoproteins.

35245 STEPHENSON, R. E. Deterioration of soil, physical and chemical. *Better Fruit* 43(8): 32, 34-36, 38-39. Feb. 1949. 80 B46

35246 SVANBERG, O., and others. Minor elements, results from recent experiments. (In Swedish, Norwegian, and Danish.) *Nord. Jordbrugsforsk.* 1948: 689-736. Ref. 11 N752

Swedish studies on minor elements, by O. Svanberg, p. 689-711; Studies on copper, by M. Stenberg, P. Ekman, K. Lundblad, and O. Svanberg, p. 689-700; Studies on manganese, by P. Ekman, p. 700-704; Studies on boron, by T. Philipson, p. 704-708; English summary, p. 709-711; Importance of minor elements for plant production and animal husbandry in Norway, by M. Ødelien, p. 711-721; Minor elements and agriculture. Results of current investigations and experiments in Denmark, by F. Steenbjerg, p. 722-733; Discussion, p. 733-736.

35247 SWENSON, R. M., COLE, C. V., and SIELING, D. H. Fixation of phosphate by iron and aluminum and replacement by organic and inorganic ions. *Soil Sci.* 67: 3-22. Ref. Jan. 1949. 56.8 So3

35248 VINOKUROV, M. A., and ALPATOVA, R. A. Humus composition of the soils in the Tartar Republic. (In Russian.) *Pochvovedenie* 1948: 489-494. Ref. Aug. 1948. 57.8 P34

35249 WERTH, A. J. pH.-werte und kalkbedürfnis. *Ceres [Hamburg]* 1948(10): 12-13. 80 C332

35250 WILCOX, L. V. Discharge and salt burden of the Rio Grande above Fort Quitman, Texas, and salt-balance conditions of the Rio Grande project for the year 1947. U. S. Region. Salinity Lab. Res. Rpt. 31, 19 p. June 1948. 1.965 A2R31

#### Soil Biology

35251 AGOR, N. Farmers can't afford to overlook legume inoculation. *G. L. F. Week Serv. Sched.* 13(37): 3. Mar. 14, 1949. 280.28 G113W

35252 ATKINSON, R. G., and ROUATT, J. W. The effect of the incorporation of certain cover crops on the microflora of potato-scab-infested soil. (Abs.) *Canad. Phytopath. Soc. Proc.* (1948) 15: 15. 1949. 464.9 C162

35253 BANAL, R. Unknown and misunderstood aids to fertilizing. (In Italian.) *Terra [Firenze]* 60(2): 3. Jan. 9, 1949. 16 T274

Earthworms.

35254 BARKER, H. A. Soil bacteria useful in studying processes of organic matter formation and decomposition. *Calif. Agr. [Calif. Sta.]* 3: 10. Jan. 1949. 100 C12Cag

35255 BINGLEY, R. B. D. The control of earthworms. *Country Life [London]* 105: 434, 437. Feb. 25, 1949. 80 C83

35256 BRIAN, P. W. The production of antibiotics by soil micro-organisms. (Sum.) *Chem. & Indus.* 1949: 107. Feb. 12, 1949. 382 M31C

35257 CHESTERS, C. G. C. Soil microflora. (Abs.) *Chem. & Indus.* 1949: 159. Mar. 5, 1949. 382 M31C

35258 DUFRESNE, A. Le cultivateur trouverait profit à étudier la microbiologie si on la mettait à sa portée. *Terre de Chez Nous* 21(1A, i. e. 23): 17-18. Mar. 2, 1949. 7 T27

35259 FRASER, G. K. Microorganisms in relation to the production and degradation of soil organic matter. (Sum.) *Chem. & Indus.* 1949: 106. Feb. 12, 1949. 382 M31C

35260 FROUD, M. D. Earthworms and soil fertility. *Agr. Prog.* 23: 54-58. Ref. 1948. 10 Ag86

35261 GEHIN, V. Le ver de terre et son utilisation. *Soc. d'Hort. et d'Acclim. du Maroc. B.* 33: 133-135. Fourth Quart. 1948. 87 So1

35262 HARVEY, B. H. Trees and grasses should be "married." *Grower [London]* 31: 249, 251. Feb. 5, 1949. 286.83 M34

Orchard cover crops.

35263 HOPKINS, D. P. Earthworms in the garden. *Gard. Work Amateurs* 69: 394. Jan. 22, 1949. 80 G1627

35264 LEGHIS, L. M. Nos fils mangeront-ils à leur faim? *Paysan Franç.* 24(374): 8. Feb. 1949. 14 P29

Biological aspects of soil management.

35265 LOCHHEAD, A. G., and LANDERKIN, G. B. Aspects of antagonisms between micro-organisms in soil. *Plant & Soil* 1: 271-276. Ref. Jan. 1949. 450 P696

35266 MILLER, J. J. Further notes on the maintenance of fungus cultures in soil. (Abs.) *Canad. Phytopath. Soc. Proc.* (1948) 15: 17. 1949. 464.9 C162

35267 PICHLER, F. Stickstoff aus der luft. *Landwirtschaft* 22(1/2): 11. 1949. 19 L235

Also in *Salzburger Bauer* 4(6): 5-6. Feb. 10, 1949. 19 Sa3; *Kärntner Bauer* 99: 57-58. Feb. 15, 1949. 19 K14

35268 POCHON, J., and TCHAN, Y. T. Précis de microbiologie du sol: principes, techniques, place dans les cycles géo-biologiques. Paris, Masson, 1948. 222 p. (Monographies de l'Institut Pasteur) 56.5 P75

35269 RÄMSCH, H. Misserfolge bei der hülsenfruchtimpfung und ihre vermeidung. *Ceres [Hamburg]* 1948(7/8): 4. 80 C332

35270 ROLINSON, G. N. Antibiosis. (Abs.) *Chem. & Indus.* 1949: 159. Mar. 5, 1949. 382 M31C

In relation to soil population.

35271 RUDAKOV, K. Fertilizers from the air. (In Russian.) *Molod. Kolkhoz.* 15(6): 26-27. June 1948. 110 M73

Nitrogen fixation by nodular bacteria of legumes and the use of nitragin.

35272 SCHUH, W. VON. Lebendiger boden. *Deut. Soja-Arch.* 2(sup.), 2 p. Mar. 1, 1948. 60.38 D48

35273 SHOOBRIDGE, H. W. Soil life and fertility. *Fruit World & Mkt. Grower* 50(2): 18-19. Feb. 5, 1949. 80 F948

35274 SILVA, J. G. DA. Inoculation of some important legumes. (In Portuguese.) *Colheitas e Mercados* 4(7/8): 3-6. July/Aug. 1948. 255.3 Sa652

35275 SILVA, J. G. DA. Studies on soy bean inoculation. (In Portuguese.) *Rev. de Agr. [Piracicaba]* 23: 365-378. Ref. Nov./Dec. 1948. 9.2 R324

35276 SYMES, E. L. Factores bio-físicos de fertilidad. *Agronomia [Habana]* 8(12): 10-11, 15-16, 29. Dec. 1948. 8 C893

35277 VAUGHAN, E. S. How good is your soil. *Wis. Hort.* 39: 158, 162. Feb. 1949. 80 W752

Biology of the soil.

35278 VERONA, O. Outlines of forest microbiology. (In Italian.) *Ital. Forest. e Mont.* 3: 340-345. Nov./Dec. 1948. 99.8 It12

In soils.

35279 WALLACE, R. H., and LOCHHEAD, A. G. Qualitative studies of soil microorganisms. VIII. Influence of various crop plants on the nutritional groups of soil bacteria. *Soil Sci.* 67: 63-69. Ref. Jan. 1949. 56.8 So3

#### Soil-Plant-Animal Relationships

35280 ALBRECHT, W. A. Are we going to grass? *Shorthorn World* 33(21): 13, 78-79. Feb. 10, 1949. 43.8 Sh8

Cattle prefer weeds on fertilized field to grass.

35281 ALBRECHT, W. A. Cows are capable soil chemists in assaying forages and the soils growing them. *Guernsey Breeders' J.* 75: 885-887, 908. Mar. 15, 1949. 43.8 G93

35282 ALBRECHT, W. A. National pattern of tooth troubles points to pattern of soil fertility. n. p., 1948. 7 p. 56.6 AL12N

35283 BEESON, K. C. Fertilizers and their effect on food quality. *Victory Farm Forum* 34: 15-16. Mar. 1949. 281.8 F226

35284 BINDSCHADLER, H. Native vegetation in relation to soil in parts of Wyoming. *Wyo. Agr. Expt. Sta. Wyo. Range Mangt.* 3, 4 p. June 1948. 60.19 W99

35285 EDWARDS, S. W. Food. Where does yours come from? *Bio-dynamics* 7: 2-5. Fall/Winter 1948. 56.8 B52

Soil-plant-animal relationships.



35286 EISELT, M. G. Die dynamisch-biologische frage. *Thür. Gartenbau* 1948: 205. Dec. 1, 1948. 80 T42

35287 GANDELIN, R. Augmentons nos rendements laitiers par l'amélioration de la production fourragère. *Jura Agr.* (n. s.) 20: 1. Feb. 15, 1949. 14 J97

35288 KLEINSCHMIDT, E. H. Some bio-dynamic activity in Germany. *Bio-dynamics* 7: 15-18. Fall/Winter 1948. 56.8 B52

35289 LARTHE, R. Pas d'élevage rentable sans engrais phosphatés. *J. de la France Agr.* 5: 1. Jan. 7/13, 1949. 14 J829

35290 MATRONE, G., and others. Studies of the effect of phosphate fertilization on the composition and nutritive value of certain forages for sheep. *J. Anim. Sci.* 8: 41-51. Ref. Feb. 1949. 49 J82  
R. L. Lovvorn, W. J. Peterson, F. H. Smith, and J. A. Weybrew, joint authors.

35291 MOORE, H. I. You can get more milk from your grass; correct manuring lifts production. *Dairy Farmer* [Ipswich] 22(3): 17. Mar. 1949. 44.8 D1414

35292 NEVENS, W. B., and SALISBURY, G. W. Relation of soils and crops to dairy cattle feeding. *Victory Farm Forum* 34: 4-5. Mar. 1949. 281.8 F226

35293 SALOMONI, V. Livestock increase on improved clay soils. (In Italian.) *Allevatore* 4(48): 7. Nov. 28, 1948. 49 AL55

#### Soil Genesis, Formation, Classification, and Mapping

35294 AARNIO, B. Of what use are soil maps or the so-called field maps. (In Swedish.) *Nord. Jordbrugsforsk.* 1948: 784-787. 11 N752

35295 AZNAREZ, J. Apuntes y notas sobre: "una nomenclatura para los suelos del Uruguay, basada en la geología." *Uruguay. U. Facul. de Agron. Rev.* 45: 43-99. May 1948. 102.5 M76R

35296 BENTLEY, C. F., and ODYNSKY, W. Minimizing the field time required for preparing permanent soil profiles. *Agron. J.* 41: 99-100. Feb. 1949. 4 Am34P

35297 BONCAMBI, C. L. From bare rock to agricultural land. (In Italian.) *Humus* 4(11): 3-5. Nov. 1948. 16 H88

35298 BRYSSINE, G. Rapport préliminaire sur les sols de la région des Srahna. In Morocco. Service de la Recherche Agronomique et de l'Expérimentation Agricole. Étude préliminaire des sols du périmètre irrigable des Srahna, p. 7-25. Rabat, 1948. 56.27 M82

35299 CHARLES, G. Sur la formation de la carapace zonale en Algérie. *Paris. Acad. des Sci. Compt. Rend.* 228: 261-263. Jan. 17, 1949. 505 P21

35300 EKSTRÖM, G. Report of the soil mapping committee of the Association of Scandinavian Agricultural Research Workers. (In Swedish.) *Nord. Jordbrugsforsk.* 1948: 772-783. 11 N752

35301 GRAINDOR, J. Les limons quaternaires aux environs de Rouen. *Ann. Agron.* 18: 659-686. Ref. Nov./Dec. 1948. 14 An75A

35302 GRILLOT, G. Mission d'étude des sols du futur périmètre irrigable des Srahna. In Morocco. Service de la Recherche Agronomique et de l'Expérimentation Agricole. Étude préliminaire des sols du périmètre irrigable des Srahna, p. 31-40. Rabat, 1948. 56.27 M82

35303 LIERE, W. J. VAN. Soil conditions in the Westland. (In Dutch.) *Netherlands. Dir. van den Landb. Verslag van Landbouwk. Onderzoek.* 54, 152 p. Ref. 's-Gravenhage, 1948. 105.2 V61V

English summary.  
Accompanied by maps.

35304 MASCHHAUPT, J. G. Soil survey in the Dollard area. *Netherlands. Dir. van den Landb. Verslag van Landbouwk. Onderzoek.* 54, 222 p. Ref. 1948. 105.2 V61V

English summary.

35305 MOROCCO. SERVICE DE LA RECHERCHE AGRONOMIQUE ET DE L'EXPERIMENTATION AGRICOLE. Étude préliminaire des sols du périmètre irrigable des Srahna. Rabat, 1948. 54 p. 56.27 M82

35306 PIJLS, F. W. G. Een gedetailleerde bodemkartering van de gemeente Didam. A detailed soil survey of the community Didam. 's-Gravenhage, Staatsdrukkerij, 1948. 116 p. 56.24 P63

35307 PRINCIPI, P. Agricultural lands of Tridentine Venezia. (In Italian.) *Italia Agr.* 86: 27-35. Jan. 1949. 16 It1  
Soils.

35308 SMYTHE, L. E. Soil science in Fiji. IV. Soil survey—its role in land classification for land-use planning. *Fiji. Dept. Agr. Agr. J.* 19: 42-45. June 1948. 25 F47Ag

35309 STRZEMSKI, M. Gleby doliny Wisly. I. Odcinek: Kazimierz Dolny, Puławy (część prawobrzeżna). Les sols de la vallée de la Vistule. I. Secteur: Kazimierz Dolny, Puławy (partie de la rive droite). *Lublin. U. M. Curie-Skłodowska. Ann. Sect. E* 3: 109-122. 1948. 512 L96Ae

French summary.

35310 U. S. SOIL CONSERVATION SERV. Significant ranges in land characteristics for soil conservation surveys. *Washington?* 1949. 1 p. 1.96 Ad6Sig

#### SOIL MANAGEMENT

35311 ADVISORY FERTILIZER BOARD FOR ONTARIO. Soil management and fertilizer use. *Ontario. Dept. Agr. B.* 463, 54 p. Ref. Jan. 1949. 101 On8B

35312 BROOKE, J. Soil management in newly planted orchards. *Grower* [London] 31: 348-350. Feb. 19, 1949. 286.83 M34

35313 CHIAPPELLI, R. Practical notes: agricultural reclamation in Baraggia. (In Italian.) *Risicoltura* 36: 236-237. Oct. 1948. 59.8 G43

35314 FISCHER, H. G. Características geo-agrológicas del Departamento de Montevideo; mejoramiento de sus tierras. *Uruguay. U. Facul. de Agron. Rev.* 45: 155-180. May 1948. 102.5 M76R

35315 KOLIASEV, F. E. Soil moisture and methods for its conservation. (In Russian.) *Sovet. Agron.* 6(6): 73-83. June 1948. 20 So84

35316 LAMMERT, A. Vorbeugung gegen sommerdürre im garten, eine aufgabe für den spätwinter. *Gartenjahr* 4: 28-29. Feb. 1949. 80 G1932

35317 LIMSTROM, G. A. Extent, character, and forestation possibilities of land stripped for coal in the Central States. *U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper* 109, 79 p. Dec. 1948. 1.9622 C3T222

35318 MALIUGIN, P. A. Agricultural utilization of deserts (Results of fifteen years of research of the Priaral'skaja Opytnaja Stanitsa). *Agrobiologičeskij* 1948 (3): 113-119. May/June 1948. 20 Ag822

35319 MIRNIG, E. Neulandgewinnung durch ödlandkultur. *Kärntner Bauer* 99: 8-10. Jan. 15, 1949. 19 K14

Marshland culture.

35320 MONTES V., R. Es posible eliminar y sustituir la práctica de la quema de los campos, uno de los factores que más daño causan a la economía nacional. *Agr. Costarricense* 6: 261-263. Nov./Dec. 1948. 8 Ag895

35321 PASSERINI, G. Protection of the soil and the problem of production. (In Italian.) *Glor. di Agr.* 59: 34. Jan. 30, 1949. 16 It1G

35322 RECHENTHIN, C. A. Maintaining the productivity of irrigated lands. *Better Crops with Plant Food* 33(2): 15-18, 45-48. Feb. 1949. 6 B46

35323 STOREY, H. C. Watershed research in the Delaware and Lehigh. *Forest Leaves* 34 i.e. 39: 15-16. Jan./Feb. 1949. 99.8 F763

35324 THIAGO, A. S. The soil and its problem. (In Portuguese.) *DEACOOP. Inform. Coop.* 1(6): 23-27. Sept. 1948. 280.28 D34  
Policy.

35325 TROUW, J. De West-Nederlandsche veenplassen, historisch-planologisch [The West-Netherlands peat fields, history, utilization]. Amsterdam, Allert de Lange, 1948. 220 p. (Heemschut Bibliotheek. Pt. 4) 56.33 T75

35326 U. S. S. R. SOVET MINISTROV. O plane polezashchitnykh lesopasazhdeniy, vnedreniya travopol'nykh sevooborotov, stroitel'stva prudov i vodoemov dlya obespecheniya vysokikh i ustoychivyykh urozhayev v stepnykh i lesostepnykh rayonakh Evropeyskoy chasti SSSR [Plan for shelterbelt plantings, introduction of grassland crop rotations, construction of ponds and reservoirs for guaranteeing high and stable harvests in the steppe and forest-steppe regions of European U. S. S. R.]. Moskva, Gos. Izd-vo Polit. Lit-ry, 1948. 45 p. 281.179 Un352

35327 VINE, R. Burning off; do fire and farming go together. *New Zeal. Farmer* 69(24): 3. Jan. 20, 1949. 23 N484

Brush burning and effects of fires on the soil.



## Soil Fertility

- 35328 AAS, J. Fertilizing vegetables. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1949: 23-24. 86 N81
- 35329 ARLAND, A. Schlamm als düngemittel. Ceres [Hamburg] 1948(11): 13-14. 80 C332
- 35330 ARMAGNAC. Magnésie et agriculture. Terre d'Oc 30: XXI-XXII. Dec. 1948. 14 Ar5
- 35331 ARNOLD, B. L. Sodium influence on cotton yield and composition. Victory Farm Forum 34: 7-8. Mar. 1949. 281.8 F226
- 35332 AVDONIN, N. S. Granulated superphosphate. (In Russian.) Sovet. Agron. 6(7): 42-52. July 1948. 20 So84  
Effect on plants.
- 35333 BARBIER, G. Observations sur la culture sans fumier dans les sols de limon. Ann. Agron. 18: 701-707. Nov./Dec. 1948. 14 An75A
- 35334 BARILLI, P. Winter nutrition of wheat. (In Italian.) Terra [Firenze] 60(1): 3. Jan. 2, 1949. 16 T274
- 35335 BARNES, W. C. Three-year tests on Irish potato fertilization. Victory Farm Forum 34: 6-7. Mar. 1949. 281.8 F226
- 35336 BARTHOLOMEW, R. P. Nitrogen top dressing will produce more oats. Victory Farm Forum 34: 12. Mar. 1949. 281.8 F226
- 35337 BEACH, G., and MUSSENBROCK, A. Effect of nitrogen and potash fertilizers on Patrician carnations in soil. Amer. Soc. Hort. Sci. Proc. 52: 487-489. Nov. 1948. 81 So12
- 35338 BEALE, C. Burning leaves robs gardens. Fla. Grower 57(3): 26. Mar. 1949. 80 F6622
- 35339 BEAR, E. M. Nitrogen in fruit plantations should act quickly and finish early. Grower [London] 31: 446-447. Mar. 5, 1949. 286.83 M34
- 35340 BEAR, F. E. Minor elements in soils and plants. Amer. Fert. 110: 7-9, 28. Jan. 8, 1949. 57.8 Am3
- 35341 BEAR, F. E. To fertilize or not. Horticulture 27: 84. Mar. 1949. 80 H787
- 35342 BENSON, N. R., and DREGNE, H. E. Leaf tissue analysis gives part of the answer. Better Fruit 43(9): 37-38. Mar. 1949. 80 B46
- 35343 BERGER, H. Düngen - aber mit dem rechenstift. Landw. Wchnbl. f. Westfalen u. Lippe 106: 49-50. Jan. 22, 1949. 18 L2346
- 35344 BERGER, K. C. Soil fertility investigations with potatoes in Wisconsin. Amer. Potato J. 25: 377-390, 392. Oct. 1948. 75.8 P842
- 35345 BERNARD, P. Les lois économiques en agriculture; fumures et arrière-fumures. Monit. Agr. 2(57): 2. Feb. 13, 1949. 14 M744
- 35346 BERNARD, P. Le problème des terres incultes: petites terres et terres blanches. Monit. Agr. 2(59): 2. Feb. 27, 1949. 14 M744
- 35347 BERNARD, P. La valeur productive du fumier. Monit. Agr. 2(55): 2. Jan. 30, 1949. 14 M744
- 35348 BERTIN, G. La fumure rationnelle du blé. Paysan Franç. 24(373): 13. Jan. 1949. 14 P29
- 35349 BOHNE, H. Laboratoriumsversuche zur frage der mobilisierung der bodenphosphorsäure durch kalk auf sauren böden. I. Z. f. Pflanzenernähr., Düngung. Bodenk. 43(1): 37-55. 1949. 384 Z343A
- 35350 BOISCHOT, P., and BARBIER, G. Notes sur le fumier artificiel et quelques autres sources d'humus. Ann. Agron. 18: 562-569. Sept./Oct. 1948. 14 An75A
- 35351 BÖRSTING, B. Der erfolg der kalkstickstoffdüngung in zahlen. Landw. Wchnbl. f. Westfalen u. Lippe 105: 363. Dec. 11, 1948. 18 L2346
- 35352 BRÉTIGNIÈRE, L. La localisation des fumures. France. Min. de l'Agr. B. Tech. d'Inform. 33: 495-496. Oct. 1948. 14 F844B
- 35353 BULLOCK, J. F. Tobacco fertilizer recommendations for South Carolina. Prog. Farmer, Car.-Va. Ed. 64(3): 18. Mar. 1949. 6 P945
- 35354 BYNGHAM, D. Forest, fertility and food. Trees [Dorchester] 12: 134-135. Winter 1948. 99.8 T714
- 35355 CALDWELL, A. C. Fertilizer paid off in '48. Hormel Farmer 12(5): 2. Jan. 1949. 49 H782

- 35356 CAMPBELL, I. J. Every cotton farmer can fertilize for profit. Cotton Gin & Oil Mill Press 50(5): 12-14. Mar. 5, 1949. 304.8 C822
- 35357 CHAPMAN, C. J. Plow-sole fertilizing revives weary soils; deep placement is beneficial to many crops. Wis. Agr. & Farmer 76(2): 39. Jan. 15, 1949. 6 W751
- 35358 CHEN, C. T., CHANG, J. M., and WEI, C. T. A study on the application of calcium cyanamide to soils. (In Chinese.) Soc. Chin. Trop. Agr. J. 1: 36-52. Ref. Sept. 1948. 26 So14  
English summary.
- 35359 COCANNOUER, J. A. The friendly weeds. Land 7: 491-494. Winter 1948/49. 279.8 L22  
Value to soil fertility.
- 35360 CORNCROSS, J. W. Economic problems in soil improvement on New Jersey vegetable farms. N. J. State Hort. Soc. Hort. News 30: 2136, 2138. Feb. 1949. 81 N46
- 35361 COWLEY, W. R., MAXWELL, N. P., and EDWARDS, C. C. Effects of fertilizers upon the yield and grade of cabbage. Tex. Agr. Expt. Sta. Prog. Rpt. 1145, 3 p. Jan. 14, 1949. 100 T31P
- 35362 CROW, D. Fertilize this spring—and get more feed this summer. West. Dairy J. 5(5): 22, 46, 48. Mar. 1, 1949. 44.8 W524
- 35363 CULBERT, J. R., and WILDE, E. I. The effect of various amounts of potassium on the production and growth of Better Times roses under glass. Amer. Soc. Hort. Sci. Proc. 52: 528-536. Nov. 1948. 81 So12
- 35364 DALY, R. Le renouveau des phosphates naturels. Terre d'Oc 30: XXIII-XXIV. Dec. 1948. 14 Ar5
- 35365 DAS, N. K. Soils in relation to fruit culture in Kumaon Hills. Indian Farming 7: 344-345. July 1948. 22 In283
- 35366 DAVIS, J. F., and LAWTON, K. Correlation of soil test results with celery plant growth. Amer. Soc. Hort. Sci. Proc. 52: 443-447. Nov. 1948. 81 So12
- 35367 DEE, W. E. Improvement of pastures through fertilization. Victory Farm Forum 34: 9-10. Mar. 1949. 281.8 F226
- 35368 DEHART, P. H. The use of lime in Virginia. South. Planter 109(11): 12. Nov. 1948. 6 So89
- 35369 DOAK, B. W. Don't use too much lime. New Zeal. Gard. 5: 173-175. Nov. 1, 1948. 80 N4822
- 35370 DOREAU, La fumure de la vigne. Rev. Agr. de l'Afrique du Nord 46: 606-607. Dec. 3, 1948. 80 R326
- 35371 DWORAK, L. Előrehaladó műtrágyázási politika [Right policy in the application fertilizers in Hungary]. Növénytermelési Kutatások (ser. 6), 9, 12 p. 1948. 281.8 N85  
English summary.
- 35372 EICHMANN, O. T. Artificial soil program balances element depletion. South. Florist & Nurseryman 61(51): 44-48. Mar. 18, 1949. 80 So86
- 35373 EICHMANN, O. T. Soil management for Gladiolus profit. New England Gladiolus Soc. Gladiolus Mag. 13: 13-16, 32-34. Feb. 1949. 96.43 N44  
Also in North Amer. Gladiolus Council. B. 17: 49, 53, 56-57. Mar. 1949. 96.43 N81
- 35374 ERNEST, E. Increased spring manuring with harrowing is advised. (In Swedish.) Lantmannen 33: 129-130. Feb. 19, 1949. 11 L234
- 35375 ESPINOZA, J. Los suelos de Santa Cruz en relación con el cultivo de la caña de azúcar. Agros [Cochabamba] 1: 40-43. Oct. 1948. 9.4 Ag86
- 35376 ETIGNY, J. D. Tendencias modernas de la agricultura. III. Asoc. Gen. de Agr. [Guatemala] B. 202: 3. Feb. 19, 1949. 8 As52  
Soil fertility.
- 35377 FERNANDES, F. M. The action of nitrogen on plants. (In Portuguese.) Vida Agr. [Lisboa] 63: 7-8. Jan./Feb. 1948. 15.5 V66
- 35378 FIORITO, G. Need for renewing soil fertility. (In Italian.) Agr. del Mezzogiorno 4(13): 1-2. Oct. 25, 1948. 16 Ag854
- 35379 FOLL, S. C. Soils and fertilizer relationships to tree development. Natl. Shade Tree Conf. Proc. 24: 10-17. 1948. 99.9 N218  
Discussion, p. 17-18.



- 35380 FOLLONI, A. For tomorrow's bread, intensify nitrogen fertilization. (In Italian.) Bologna Agr. 2(5): 1. Jan. 29, 1949. 16 B634
- 35381 FONDARD, L. Fertilisations des cultures florales; rôles des fumures organiques. Réveil Agr. 58: 49-50. Feb. 15, 1949. 14 R322
- 35382 FORMIGONI, L. Fertilize the wheat before the snow. (In Italian.) Campagna 47: 316. Nov. 30, 1948. 16 C152
- 35383 GABRIEL, F. Le chaulage des terres. Voix des Colons 31(1491): 2. Feb. 14, 1949. 24 V85
- 35384 GALLE, F., and CHADWICK, L. C. The effect of mulches and companion crops on soil aggregation and porosity and on the growth of some woody ornamental plants in the garden and nursery. Amer. Soc. Hort. Sci. Proc. 52: 517-524. Nov. 1948. 81 S012
- 35385 GALLETTI, A. C. Nitrates and nitration. (In Italian.) Terra [Firenze] 60(2): 2. Jan. 9, 1949. 16 T274
- 35386 GARDNER, V. R. Condensation of talk on nutrient balance sheet in the orchard. Wash. State Hort. Assoc. Proc. 44: 147-151. 1948. 81 W273
- 35387 GENTER, C. F. Effects of fertilizer treatments on corn yields. Victory Farm Forum 34: 8-9. Mar. 1949. 281.8 F226
- 35388 GERICKE, S. Humusfragen. Z. f. Pflanzen-ernähr., Düngung. Bodenk. 43(1): 55-67. 1949. 384 Z343A
- 35389 GILLIN, P. La fumure de la vigne et des arbres fruitiers. Colon Franç. de Tunisie 59(2083): 3. Jan. 22, 1949. 24 C712
- 35390 GIUSEPPE, F. Grain fertilization. (In Italian.) Agr. Mezzogiorno 5(1/2): 2. Jan. 30, 1949. 16 Ag8254
- 35391 GOY, S. Zur auswertung der durch laboratoriumsmethoden erhaltenen werte für phosphorsäure und kali für die landwirtschaftliche praxis. Z. f. Pflanzen-ernähr., Düngung. Bodenk. 43(1): 18-36. 1949. 384 Z343A
- 35392 GRAHAM, S. C. The loss of soil fertility in New South Wales as reflected by depleted nitrogen content and its effect on the baking quality of wheat. (Sum.) Austral. Inst. Agr. Sci. J. 14: 194-195. Dec. 1948. 23 Au74
- 35393 GRIFFITH, A. L., and GUPTA, R. S. The determination of the characteristics of soil suitable for sal (Shorea robusta). Indian Forest B. New Ser., Silv. 138, 27 p. 1948. 99.9 In22B
- 35394 GROOT, H. DE. The fertilization of grassland. (In Friesian.) Friesch Landbouwblad 46: 26, 38, 50, 63. Jan. 14-Feb. 4, 1949. 12 F91
- 35395 HAWKINS, A., TERMAN, G. L., and WYMAN, O. L. Efficient fertilization of potatoes in Maine. Maine. Agr. Col. Ext. B. 373, 16 p. Mar. 1948. 275.29 M281B
- 35396 HENSLEY, G. S. How can we give new vigor to "worn-out" land? Mo. Farmer 41: 3, 7. Jan. 1949. 6 M696
- Soil tests for correct use of fertilizers.
- 35397 HINEDY, M. E., and ALLAM, F. Cotton crop yield in relation to application of fertilizers. Nature [London] 163: 362. Ref. Mar. 5, 1949. 472 N21
- 35398 HO, W. G., and TU, C. S. Fertilizer experiments in Kinghuei irrigation district, Shen-si. (In Chinese.) Chin. J. Cotton 1(2): 4-13. Nov. 11, 1948. 72.8 C444
- English summary.
- 35399 HOCKEY, K. C. Feeding fruit trees. New Zeal. Gard. 5: 209-210. Nov. 1, 1948. 80 N4822
- 35400 IAZVITSKII, M. N. Local adaptation of Podzolic soils for fruit plants. (In Russian.) Sad i Ogorod 1948(7): 10-16. July 1948. 87 S1
- Fertilizer application.
- 35401 JANSSEN, R. W. Nitrogen fertilizing of sugar beets. (In Dutch.) Boer en Tuinder 3(108): 1-2. Jan. 29, 1949. 12 B632
- 35402 JOHNSTON, J. C. Citrus fertilization. Calif. Citrog. 34: 194, 206, 208-209. Mar. 1949. 80 C125
- 35403 JUGUET, E. Les engrais potassiques. Agr. du Sud-Est (n. s.) 56(3): 1-2. Feb. 13, 1949. 14 Ag88
- 35404 KEVORKOV, A. P. Technique of applying small doses of lime. (In Russian.) Sovet. Agron. 6(6): 67-72. June 1948. 20 So84
- Experiments with clover and timothy on Podzolic soils.
- 35405 KING, G. H. Fertilizing tobacco. Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(2): 110. Feb. 1949. 6 P945G
- 35406 KING, N. Founded on sand. My Gard. 38: 128-130. Feb. 1949. 80 M995
- 35407 KIRCHMEYER, F. Stickstoff, der retter schwacher wintersaaten. Oberöstr. Landwirtschafts-ztg. 21(4): 3. Jan. 26, 1949. 19 Ob23
- 35408 KOPETZ, L. M. Was sind gesundungspflanzen? Landwirtschaft 1948: 344-345. Dec. 20, 1948. 19 L235
- 35409 KUŽNIAR, K. Remarks on the determination of the productive capacity of sandy soil. (In Polish.) Sylwan 92: 33-40. 1948. 99.8 Sy52
- English summary.
- 35410 KVAALE, E. Fertilizing fruit trees and berry bushes. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1949: 36-37. 86 N81
- 35411 LAATSCH, W., and BIENECK, O. Untersuchungen über den wert des mülls als düngemittel und kompostrohstoff. Ceres [Hamburg] 1948(7/8): 1-4. 80 C332
- 35412 LACHAT, A. Difficultés d'emploi des engrais dans les vallées des grands fleuves du sud-ouest Malgache. Agriculture [Paris] 12: 387-389. Dec. 1948. 14 Ag823
- 35413 LACOMBE, R. Épandage des engrais en solution. Prog. Agr. et Vitic. 1949: 60-65. Jan. 30, 1949. 14 P94
- 35414 LAFOREST, G. La fertilisation du sol. Unité Paysanne 4(171): 4. Feb. 12, 1949. 14 Un3
- 35415 LAGASSE, F. S., and DROSDOFF, M. The nutrition of tung trees. Amer. Soc. Hort. Sci. Proc. 52: 11-18. Ref. Nov. 1948. 81 S012
- 35416 LANGE, P. Die bedeutung des kalis für den obstbau. Gartenjahr 4: 32-33. Feb. 1949. 80 G1932
- 35417 LEAVITT, F. H. Nitrogeation, nitrojection, and soil fumigation; their application and their results. Amer. Fert. 110(2): 7-8, 24. Jan. 22, 1949. 57.8 Am3
- 35418 LEMMERMANN, O., and RAUTERBERG, E. Über die ausnutzung schwerlöslicher phosphorsäureverbindungen durch sogenannte tiefwurzler und flachwurzler nebst einigen anderen fragen der stoffaufnahme. Z. f. Pflanzenernähr., Düngung, Bodenk. 43(1): 1-18. 1949. 384 Z343A
- 35419 LEWIS, D. E. Fertilizing citrus trees for profit. Tex. Farming & Citric. 25(9): 14, 22. Mar. 1949. 80 T31
- 35420 LIGUORI, F. Phosphorus and grain. (In Italian.) Agr. del Mezzogiorno 4(13): 1. Oct. 25, 1948. 16 Ag854
- 35421 LIVANOV, K. V. Increasing the fertility of Chestnut soils in Zavolzh'e by using grassland crop rotations. (In Russian.) Sovet. Agron. 6(10): 39-44. Oct. 1948. 20 So84
- 35422 LONG, D. D. Correcting magnesium deficiencies in the soil. Tung World 4: 10. Jan. 1949. 77.8 T83
- 35423 LONG, O. H., and EWING, J. A. Fertilizer studies on small grains, with special emphasis on time and rate of nitrogen application. Tenn. Agr. Expt. Sta. B. 209, 21 p. Feb. 1949. 100 T25S
- 35424 MELSTED, S. W., KURTZ, T., and BRAY, R. Hydrogen peroxide as an oxygen fertilizer. Agron. J. 41: 97. Feb. 1949. 4 Am34P
- 35425 MENNECKE, W. Thomasphosphat oder superphosphat? Landw. Wehnl. f. Westfalen u. Lippe 106: 33. Jan. 15, 1949. 18 L2346
- 35426 MIEDEMA, R. Points of present interest. (In Dutch.) Boer en Tuinder 3(108): 6. Jan. 29, 1949. 12 B632
- Manuring of grassland.
- 35427 MIGHTON, C. E., and OSBORN, J. H. Fertilizing tomatoes for earliness and quality. Better Crops with Plant Food 33(2): 6-8, 43-44. Feb. 1949. 6 B46
- 35428 MOLFINO, R. H. Influencia de la reacción del suelo sobre el rendimiento de un ensayo de lino oleaginoso durante el bienio 1940-1941. La Plata. U. Nac. Facul. de Agron. Rev. 26: 235-257. 1948. 9 R32
- English summary.
- 35429 MONOT, G. Essais d'engrais sur les pommes de terre. Pomme de Terre Franç. 12(113): 28-32. Jan. 1949. 75.8 P77



- 35430 MONTAGNA, A. Questions on phosphate fertilizing. (In Italian.) Terra [Firenze] 59(52): 2. Dec. 26, 1948. 16 T274
- 35431 MOON, W. T. The Valley's future depends chiefly upon conserving the fertility of the soil. Tex. Farming & Citric. 25(9): 7, 23. Mar. 1949. 80 T31
- 35432 MORGAN, N. D. Starved plants show hunger. Farmer-Stockman 62(2): 12, 38, 39. Feb. 1949. 6 Ok45
- 35433 NADAUD, F. L'agriculture anglaise: un sol pauvre richement exploité. Monit. Agr. 1(50/51): 24. Dec. 25, 1948/Jan. 1, 1949. 14 M744
- 35434 NATIONAL JOINT COMMITTEE ON FERTILIZER APPLICATION. Methods of applying fertilizer. Natl. Fert. Assoc. Pam. 149, rev., 27 p. Nov. 1948. 57.9 N212P
- 35435 NAUMOV, S. A. Structure-formative function of perennial Derzhavin rye. (In Russian.) Sovet. Agron. 6(6): 84-85. June 1948. 20 So84
- Effects on soils.
- 35436 NEARING, G. G. Acid soils. Horticulture 27: 116-118. Mar. 1949. 80 H787
- 35437 NEW SOUTH WALES. DEPT. OF AGRICULTURE. Soil acidity and the growth of vegetables. N. S. Wales. Dept. Agr. Biol. Br. Plant Physiol. Leaflet 3, 3 p. 1948. 451 N472
- 35438 NIESCHLAG, F. Die bodenuntersuchung auf dem grünland. Landwirtschaftsblatt Weser-Ems 95: 275. Dec. 10, 1948. 18 L2345
- 35439 NORMAND, J. Les forêts et la restauration des sols en Algérie. Bois et Scieries 55: 148. Feb. 10, 1949. 99.81 B632
- 35440 OVERSETH, O. E. Hints on handling fertilizers. Calif. Citrog. 34: 227-228. Mar. 1949. 80 C125
- 35441 PAINTER, J. H., DROSDOFF, M., and BROWN, R. T. Responses of bearing tung trees on Red Bay fine sandy loam to potassium and nitrogen. Amer. Soc. Hort. Sci. Proc. 52: 19-24. Nov. 1948. 81 So12
- 35442 PARGUEY, G., and MENGUE, J. Créons des coopératives de marnage. Défense Agr. de la Beauce et du Perche 46: 1-2. Jan. 1, 1949. 14 D36
- 35443 PEDRETTI, L. Nicht auf sachwerte, sondern auf produktionswerte das augenmerk lenken. Allgäuer Bauernbl. 16: 318-320. Dec. 10, 1948. 18 AL53
- Fertilizers and fertilizing.
- 35444 PERMAN, O. 10 points on lime. (In Swedish.) Försök och Forskning 5: 91. Dec. 1948. 11 F77
- Fertilizer directions.
- 35445 PERRIER, M. Les engrais phosphatés agissent-ils rapidement sur la vigne? Paysan Franç. 24(875): 9. Mar. 1949. 14 P29
- 35446 PERSI, R. The problem of nitrates for wheat. (In Italian.) Campagna 47: 314-315. Nov. 30, 1948. 16 C152
- 35447 PETERSSON, G. Don't starve the potato! (In Swedish.) Lantmannen 33: 125-126. Feb. 19, 1949. 11 L234
- Fertilizer directions.
- 35448 PORTER, J. A. The cost of not using lime. Mich. Farmer 211: 194, 213. Mar. 5, 1949. 6 M58
- 35449 POWELL, L. A. Manuring your garden. Farmer [Kingston] 52: 207, 209-211, 213-214. Oct./Dec. 1948. 8 J223
- 35450 PROEBSTING, E. L. Tailor your deciduous fertilizer program. Calif. Farmer, South. Ed. 190: 90. Jan. 29, 1949. 6 C126A
- Nitrogen application.
- 35451 PROVAGLIO, G. Nitrate for wheat. (In Italian.) Agr. Bresciana 2(3): 1-2. Jan. 19, 1949. 16 Ag89
- 35452 RATNER, E. I. Improving the effectiveness of phosphates. (In Russian.) Sovet. Agron. 6(7): 53-62. July 1948. 20 So84
- By using organic fertilizers.
- 35453 REINHOLD, J. Müll als bodenverbesserungsmittel. Ceres [Hamburg] 1948(9): 1-3. Sept. 1948. 80 C332
- 35454 ROLLAND, L. Présentation et dosage actuel des ammonitrates. Bouches du Rhone Agr. 22(996): 16. (To be cont.) Feb. 15, 1949. 14 B662
- 35455 RØYNE, H. Fertilizing. (In Norwegian.) Norsk Landbr. 15: 85-88. Mar. 4, 1949. 11 N8122
- 35456 SAHASRABUDDHE, K. R. Broadcasting versus drilling method of applying fertilizers to wheat crop in Haveli tract. Nagpur Agr. Col. Mag. 23: 5-10. June/Sept. 1948. 107.5 N132
- 35457 SAMOILOV, I. I. Sistema udobreniya v sevooborotakh nechernozemnoi zony [A system of fertilizers in the crop rotations of the non-black soil area]. Moskv, Sel'khozgiz, 1948. 127 p. 57.7 Sa4S
- 35458 SAUNBY, T. Too many balanced fertilisers? Fruit-Grower 107: 165-166. Feb. 10, 1949. 80 F941
- 35459 SCARBROUGH, G. Cross question, crooked answer. Land 7: 495-498. Winter 1948/49. 279.8 L22
- Soil deterioration and its effects.
- 35460 SCARSETH, G. D. Grow more, buy less. Ill. Agr. Assoc. Rec. 27(2): 20, 30. Feb. 1949. 6 IL62
- Use of fertilizers for increased production.
- 35461 SCHMALFUSS, K. Pflanzenernährung und bodenkunde. Stuttgart, Hirzel, 1948. 274 p. (Landwirtschaftliche Wissenschaft; eine Lehrbuchreihe für Studium und Praxis, v. 1) 395 Sch4
- 35462 SCHREIBER, R. Über den einfluss der magnesiumgehalte der verschiedenen kalidüngemittel auf ertrag und qualität von sommerweizen. Z. f. Pflanzenernähr., Düngung, Bodenk. 43(1): 69-77. 1949. 384 Z343A
- 35463 SEGAL, L. A new form of fertilization. (In Italian.) Humus 5: 16-17. Jan. 1949. 16 H88
- 35464 SHAMEL, A. D. Citrus and soils. Citrus Leaves 28(11): 14-15, 28. Nov. 1948. 80 C492
- 35465 SHAW, F. M. Waking up sleepy acres. Soil Conserv. 14: 181-183. Mar. 1949. 1.6 So3S
- Soil improvement by planting hairy vetch.
- 35466 SHEWELL-COOPER, W. E. Many fruit trees now lack magnesium. Smallholder 80(2026): 13. Jan. 28, 1949. 10 Sm1
- 35467 SITTON, B. G., and others. Increasing tung profits with potassium. Better Crops with Plant Food 33(2): 21-24. Feb. 1949. 6 B46
- J. H. Painter, R. T. Brown, S. G. Gilbert, and M. Drosdoff, joint authors.
- 35468 SITTON, B. G. Response of bearing tung trees to nitrogen, phosphorus, and potassium fertilizers. Amer. Soc. Hort. Sci. Proc. 52: 25-39. Ref. Nov. 1948. 81 So12
- 35469 SKVORTSOV, A. Liming of Podzolic soils. (In Russian.) Sovet. Agron. 6(6): 62-66. June 1948. 20 So84
- 35470 SLOAN, G. D. The citrus calendar, a twelve-months' fertilizer program. Citrus [Tampa] 11(6): 18, 20. Feb. 1949. 80 C498
- 35471 SMITH, V. T. Green manure crops for Idaho farms. Idaho Agr. Col. Ext. C. 105, 4 p. Nov. 1948. 275.29 Id13C
- Effect on soils.
- 35472 SNIDER, H. J. Lime is needed to maintain fertility. Better Crops with Plant Food 33(2): 19-20, 48-49. Feb. 1949. 6 B46
- 35473 SOUFFRONT, L. O. Algunos apuntes sobre el uso de la cal en los terrenos. Agr. Trop. 5(2): 45-58. Ref. Feb. 1949. 26 Ag8
- 35474 SPENCER, E. L. Factors influencing fertilizer uptake by vegetable crops. Mkt. Growers J. 78(2): 12, 32. Feb. 1949. 6 M34
- 35475 STALL, C. W. For better crops. Hoosier Farmer 34(3): 12-13. Mar. 1949. 280.82 H76
- Fertilizer application.
- 35476 STARK, F. C., JR. New findings suggest changes in the fertilization practices for cantaloupes. Peninsula Hort. Soc. Trans. 62: 86-87. 1948. 81 P37
- 35477 STOTTER, S. P. The liquid feeding of tomatoes. Grower [London] 31: 200-201. Jan. 29, 1949. 286.83 M34
- 35478 SVESHNIKOV, A. M., and SAI, L. R. Mineralnye udobreniya i ikh primenenie [Mineral fertilizers and their application]. Ivanovo, Ivanovskoe Obl. Izd-vo, 1948. 85 p. 57.2 Sv2
- 35479 TARRANT, R. F. The role of organic matter as a source of nitrogen in Douglas-fir forest soils. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 48, 5 p. Dec. 31, 1948. 1.9 F7629Fr
- 35480 'T HART, M. L. An observation upon the influence of the climate on the effect of potassium fertilizers on grassland. Plant & Soil 1: 264-270. Jan. 1949. 450 P696



- 35481 THERON, J. J. Modern conceptions of soil fertility. (In Afrikaans.) Landbouweekblad 30(1534): 45, 55. Dec. 8, 1948. 24 L232
- 35482 TIEDJENS, V. A. Before you plant, prepare soil properly. Horticulture 27: 82. Mar. 1949. 80 H787
- 35483 TIEDJENS, V. A. Some things to think about to increase yields. Peninsula Hort. Soc. Trans. 62: 98-100. 1948. 81 P37
- 35484 TODARO, F. In search of humus. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 231-232. Dec. 31, 1948. 16 C72
- 35485 TURNER, P. E., WARNEFORD, F. H. S., and MARTIN, E. R. H. Antigua experimental scheme. 1948. 38 p. 65 An8
- 35486 VALERY, C. Fertilisation des prairies. Paysan du Sud-Quest 5(195): 3. Jan. 29, 1949. 14 P292
- 35487 VANDERFORD, H. B. Wise land use increases farm income in the South. Better Crops with Plant Food 33(2): 11-14, 39-41. Feb. 1949. 6 B46
- 35488 VAN DERLINDEN, L. Soil problem changes from year to year for grower. Better Fruit 43(9): 24, 26. Mar. 1949. 80 B46
- 35489 VAN HAARLEM, J. R. Soil management for nut plantations in Ontario. North. Nut Growers Assoc. Ann. Rpt. (1947) 38: 43-44. 1948. 94.69 N81
- 35490 VIRGINIA. AGRICULTURAL AND MECHANICAL COLLEGE AND POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION DIV. Virginia's field and truck crop fertilizer recommendations. Va. Agr. Col. Ext. C. 341, rev., 6 p.-folder. Jan. 1948. 275.29 V81C
- 35491 VOGLER, E. Fumure minérale et rendement des paturages. Potasse 22: 204-205. Dec. 1948. 57.8 P84
- 35492 WALLIS, M. Soil conditions in South Wexford. Beet Grower 2: 347-349. Jan. 1949. 66.8 B392
- 35493 WALRATH, E. K. The "put and take" in grassland farming. Better Crops with Plant Food 33(2): 9-10, 44-45. Feb. 1949. 6 B46
- 35494 WARE, L. M., and JOHNSON, W. A. Effects of organic materials, fertilizers, and irrigation on the yield of sweetpotatoes. Amer. Soc. Hort. Sci. Proc. 52: 317-321. Nov. 1948. 81 S012
- 35495 WELCH, F. J. Fertilizer recommendations for 1949. Miss. Farm Res. [Miss. Sta.] 12(2): 4-6. Feb. 1949. 100 M69M1
- 35496 WHEETING, L. C. Organic matter is keystone of healthy soil. Idaho Farmer 67: 72. Feb. 3, 1949. 6 G282
- 35497 WHITE, H. F. Land usage in Australia; fertilisers or organic farming? Past. Rev. 58: 1057-1058 Nov. 16, 1948. 23 Au75
- 35498 WING, A. S. Soil pros and cons. Nature Mag. 42: 135-137, 148. Mar. 1949. 409.6 N214
- 35499 WITTWER, S. H. Fertilizer rates and methods of fertilizer placement for pickling cucumbers. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 207-208. Mar. 1949. 389.8 F94
- 35500 WRIGHT, E. A. Building soil fertility. New England Homestead 122(3): 8, 25. Feb. 12, 1949. 6 N442
- 35501 ZINN, L. G. Four West Virginia veterans top 100-bushel corn yield. Better Crops with Plant Food 33(2): 25-26, 41-43. Feb. 1949. 6 B46
- Soil Tilth and Tillage
- 35502 BAUER, M. Was ist bodengare? Landw. Wchnbl. f. Westfalen u. Lippe 105: 376. Dec. 18, 1948. 18 L2346
- 35503 BERNARD, J. Les différentes utilisations de l'explosif agricole. Foyer Rural [Paris] 12(62): 4. Jan. 2, 1949. 14 F83
- 35504 DAVIS, R. L. Salad crops on kudzu mulch. Land 7: 544-546. Winter 1948/49. 279.8 L22
- 35505 DENOZIERE, M. Les travaux aratoires dans les vergers. Rev. Agr. de l'Afrique du Nord 46: 608-609. Dec. 3, 1948. 80 R326
- 35506 DWORAK, L. Alapvető kérdések tisztázása a produktív talajművelési politikához [Soil cultivation in summer]. Növénytermelési Kutatások (ser. 6) 8, 43 p. 1948. 281.8 N85  
English summary.
- 35507 EYSTER, W. H. Rock-mulched asparagus. Organic Gard. 14(3): 18-20. Mar. 1949. 56.8 Or3
- 35508 FLEISCHMANN, C. Gedanken zur bodenbearbeitung. Ceres [Hamburg] 5/6: 21-22; 9: 15-16; 10: 11-12. (Cont.) 1948. 80 C332
- 35509 HUFFAKER, A. Row width and proper equipment. Sugar Beet 8: 19. Mar. 1949. 66.8 Su34B
- 35510 KALTSCHMIDT, W. Die herbstfurche im obst- und gemüsebau. Bad. Obst- u. Gartenbauer 1(2): 10. Nov. 1, 1948. 80 B142
- 35511 KURON, H. Forderungen des bodenkundlers an die landtechnik. Deut. Bauerntech. 2(9): 10-13. Sept. 1948. 58.8 D48  
Tillage and tillage equipment.
- 35512 MACANDREWS, A. H. Is the living mulch a dead issue? Amer. Rose Mag. 8: 140-141. Jan./Feb. 1949. 80 Am327A
- 35513 POZDENA, L. Tiefbearbeitung im bäuerlichen betrieb. Burgenländische Bauernbündler 2: 5. Jan. 10, 1949. 19 B91
- 35514 REICHART, M. A. L. "El cultivo del suelo": las labranzas. Tambo y Chacra 21(740): 4. (Cont.) Jan. 24, 1949. 44.8 T15
- 35515 RUBIN, S. S. Depth of soil tillage in orchards. (In Russian.) Sad i Ogorod 1948(7): 8-10. July 1948. 87 S1
- 35516 SCHEFFER, F. Tiefkultur, flachkultur, untergrundlockerung. Landwirtschaftsblatt Weser-Ems 95: 273-274. Dec. 10, 1948. 18 L2345
- 35517 SWANSON, C. L. W. Should we stop cultivating? Frontiers Plant Sci. 1: 2, 8. Nov. 1948. 100 F92
- 35518 SWINGLE, C. F. Experiments with mulching cherries and apples. Wis. Hort. 39: 134. Feb. 1949. 80 W752
- 35519 VALENTIN, J. Les labours profonds dans la région de l'ouest. Potasse 23: 11. Jan. 1949. 57.8 P84
- Drainage, Irrigation, Water Supply, and Flood Control
- 35520 ABEL, E. What price reclamation? Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam. 5, 11 p. 1948? 292.9 Ir7
- 35521 ANDERSON, E. Gravel bars evolve their own flood-control. Mo. Bot. Gard. B. 37: 54-57. Feb. 1949. 451 M69B
- 35522 BALLESTER, R. E. The use of irrigation water. (In Portuguese.) Fazenda 44(2): 40. Feb. 1949. 6 H11P
- 35523 BARKER, J. R. Creeping paralysis threatens; drainage of irrigated land may be necessary to keep farms showing profit. Utah Farmer 68(11): 5, 20. Jan. 22, 1949. 6 D45
- 35524 BARNES, H. Madera [Irrigation District] faces the facts. Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam. 2, 6 p. 1948? 292.9 Ir7
- 35525 BARNES, H. The Madera [Irrigation District] problem, September 1948. Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam. 10, 6 p. 1948? 292.9 Ir7
- 35526 BAZILEVICH, N. I. Factors in the improvement of Baraba Plain marshes. (In Russian.) Pochvo-vedenie 1948: 514-525. Aug. 1948. 57.8 P34
- 35527 BLOODWORTH, M. E. Turning water onto and off the land. Tex. Farming & Citric. 25(8): 16-17. Feb. 1949. 80 T31
- 35528 BODDY, H. Water storage dams make higher dollar gains. West. Livestock J. 27(12): 48, 60, 62. Jan. 15, 1949. 6 F2278  
Lowland pasture irrigation in California.
- 35529 BRETTING, A. E. Hydraulics, irrigation and drainage, reclamation and water-power plants. In The humanities and the sciences in Denmark, p. 708-711. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- 35530 BROOKS, W. W. Electric water systems save crops by irrigation. New Agr. 31(5): 9. Feb. 1949. 66.8 Su32
- 35531 CEMBRAN, A. Sprinkler irrigation for grapes; it's first use in Europe is at S. Maddalena. (In Italian.) Ital. Vinic. ed Agr. 38: 244-246. Nov. 15, 1948. 95.8 It1
- 35532 CHURCH, L. E. Cloud Creek Watershed. Land 7: 533-536. Winter 1948/49. 279.8 L22  
Flood control and soil conservation.



- 35533 CLARK, C. C. Sprinkler equipment problems and improvements. Wash. State Hort. Assoc. Proc. 44: 25-27. 1948. 81 W273
- 35534 DAHL, N. J., and JUUSELA, T. Drainage. (In Danish and Swedish.) Nord. Jordbrugsforsk. 1948: 657-669. 11 N752
- The hydraulic basis for calculating drainage pipes, by N. J. Dahl, p. 657-663; Heat and moisture conditions in drained and open ditch fields, by T. Juusela; Discussion, p. 670-672.
- 35535 DAKERS, J. S. The art of watering. Amateur Gard. Ann 1949: 43 80 Am12
- 35536 DHIR, R. D. Snow surveys in Himalayas. India. Cent. Bd. Irrig. J. 5: 380-383. Oct. 1948. 55.9 In222C
- 35537 DONEEN, L. D. Gypsum in irrigation; effective use governed by application and ratio of salts in the water. Calif. Agr. [Calif. Sta.] 3: 13. Jan. 1949. 100 C12Cag
- 35538 DONNAN, W. W., and BRADSHAW, G. B. Tile effluent measuring devices. Agr. Engin. 30: 134-136, 140. Mar. 1949. 58.8 Ag83
- 35539 DOVELL, J. E. Water control in central and southern Florida. Econ. Leaflets 8(2), 4 p. Jan. 1949. 280.9 F663
- Floods.
- 35540 DUBIANSKII, V. A. Methods of creating guaranteed harvest plots in the southeastern part of the central Chernozem area. (In Russian.) Sovet. Agron. 6(10): 76-80. Oct. 1948. 20 So84
- Irrigation.
- 35541 DUDENEY, P. Common sense. Farmers Weekly [London] 30(6): 43. Feb. 11, 1949. 10 F2226
- Reclamation of England's common lands.
- 35542 DUFFIE, H. Z. Irrigate pastures and field crops? Agrarian 8(2): 5. Jan. 1949. 276.8 Ag8
- 35543 DUSENBERRY, H. L. Get water off the land. Mont. Farmer-Stockman 36(12): 24-25. Feb. 15, 1949. 6 M764
- Water logging from over irrigation.
- 35544 ELEAZER, J. M. Will irrigation be our next great step? Prog. Farmer, Car.-Va. Ed. 63(11): 19, 111. Nov. 1948. 6 P945
- Southern States.
- 35545 FEDORENKO, I. D., and DOROZHKO, P. K. Poliv oroshaemykh uchastkov [Watering the plots under irrigation]. Moskva, Sel'khozgiz, 1948. 55 p. 55 F313
- 35546 FERGUSON, F. F. Reclaiming the Indian desert. Sci. & Cult. 14: 292. Jan. 1949. 475 Sci24
- With a note by M. B. Pithawalla, p. 293.
- 35547 FLEURY, F. Water for Quebec potatoes. Family Herald & Weekly Star 80(5): 5. Feb. 2, 1949. 7 F21
- 35548 FUHRMAN, W. U. Recent and prospective developments on Columbia Basin Project. Wash. State Col. Inst. Dairying Proc. 17: 97-102. 1948. 44.9 W27
- 35549 GEE, H. C. Flood control; public works investment number 1. Milit. Engin. 41: 86-88. Mar./Apr. 1949. 290.9 Un3
- 35550 GOOKIN, W. S. Central Arizona project. I-II. Reclam. Era 35: 5-8; 28-30, 40. Jan.-Feb. 1949. 156.84 R24
- Importation of Colorado River water to supplement the irrigation water supply.
- 35551 GOUDIE, A. G. Overhead spray irrigation. Citrus News 24, 1. e. 34: 179, 181. Dec. 1948. 80 C494
- 35552 HASWELL, J. R. Some tile drainage experiences. Agr. Engin. 30: 81-83, 85. Feb. 1949. 58.8 Ag83
- 35553 HAYS, J. B. T. V. A. on the Jordan; proposals for irrigation and hydroelectric development in Palestine. Washington, Public Affairs Press, 1948. 114 p. 55 H332
- 35554 HEPPERLY, A. K. There's a gold mine in the pasture; irrigated pasture. Rec. Stockman, Ann. Ed. 59(52): 54, 74, 78-79. Dec. 23, 1948. 49 D43
- 35555 HOLLEY, H. Vanishing waters. Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam. 13, 10 p. 1948? 292.9 Ir7
- Dwindling underground water supply in California.
- 35556 HOOBER, C. O. Land-water-government. Calif. Citrog. 34: 193. Mar. 1949. 80 C125
- 35557 IDAHO. DEPT. OF RECLAMATION. Fifteenth biennial report, 1947-1948. 1948. 106 p. 292.9 Id1
- Includes irrigation.
- 35558 IDEKER, R. A. Arkansas plans ahead; growers join forces with Government to provide a steady supply of irrigation water. Rice News 16(2): 3-4. Feb. 1949. 59.8 R362
- 35559 INDIA. CENTRAL BOARD OF IRRIGATION. Hydro-electric development in India. India. Cent. Bd. Irrig. Pop. Ser. Leaflet 5, 24 p. Aug. 31, 1948. 55.9 In222P
- 35560 IRRIGATION DISTRICTS ASSOCIATION OF CALIFORNIA. The proposed contract for the Central Valley Project. Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam. 4, 12 p. 1948? 292.9 Ir7
- 35561 IRRIGATION DISTRICTS ASSOCIATION OF CALIFORNIA. Water; principles of development and use. Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam. 1, 3 p. 1948? 292.9 Ir7
- 35562 JESACHER, C. Alm-bewässerung. Kärntner Bauer 99: 13-14. Jan. 15, 1949. 19 K14
- 35563 JOHNS, R. L. The "Big Inch" comes to Plains irrigation. Southwest. Crop & Stock 3(2): 8-9. Feb. 1949. 6 So8942
- Under ground concrete irrigation pipe.
- 35564 KIRCHER, W. H. Water when it's needed. Farmer [St. Paul], Dak. Ed. 66(23): 1, 32. Dec. 4, 1948. 6 F2211D
- Irrigation.
- 35565 KOLESNIKOV, I. T. Orositel'naia na uchastkakh garatirovannogo urozhaiia [Irrigation system on plots to guarantee harvest]. Moskva, Sel'khozgiz, 1948. 54 p. 55 K832
- 35566 KOVAL', T. A. Bor'ba s zasukhoi [Drought control]. Moskva, Gos. Izd-vo Sel'skokhozhiaistvennoi Lit-ry, 1948. 157 p. 33.31 K844
- 35567 LARSON, F. D. Irrigation comes to the ranges and ranchers of Carter (Montana) County and Uncle Sam approves. West. Livestock Rptr. 9(28): 36. Mar. 2, 1949. 286.85 W523
- 35568 LEPIK, A. F. Grass roots discussion. Irrig. Farmer 6(8): 9. Dec. 2, 1948. 55.8 Ir78
- A discussion of Nebraska's Tri-County irrigation system.
- 35569 LEWIS, M. R. Sprinkler or other methods of irrigation. Agr. Engin. 30: 86-87. Feb. 1949. 58.8 Ag83
- 35570 LOWDERMILK, W. C. The Palestine problem, an untried approach. Land '7: 563-566. Winter 1948/49. 279.8 L22
- Irrigation and a hydroelectric project.
- 35571 LUTHER, J. M. The Sacramento Valley and water rights. Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam. 3, 6 p. 1948? 292.9 Ir7
- 35572 MCCULLOCH, A. W. Portable sprinkler system design. I. Farm Impl. News 70(4): 58-60. Feb. 24, 1949. 58.8 F22
- 35573 MALUHOTRA, J. K. Siphon spillways simple formulae for the maximum jet travel and the corresponding nozzle elevation. India. Cent. Bd. Irrig. J. 5: 374-379. Oct. 1948. 55.9 In222C
- 35574 MILNER, R. Surface drainage of flat land. Ohio. Agr. Col. Ext. B. 299, 24 p. June 1948. 275.29 Oh32
- Channels and terraces.
- 35575 MINAW, F. Radio-geophysical prospection for desert underground water and the utilisation of Egyptian deserts. Egypte Contemporaine 39(243/244): 1-9. Jan./Feb. 1948. 270 Eg95
- 35576 MISRA, R. K. Sub-soil irrigation in relation to plant-growth. I-II. India. Cent. Bd. Irrig. J. 5: 389-397. Oct. 1948. 55.9 In222C
- V. K. Subramanian joint author of II.
- 35577 MITCHELL, J. Crosby [County, Texas] irrigation booms—cotton farmer irrigates 3 1/4 miles from pump. Southwest. Crop & Stock 3(2): 30-31. Feb. 1949. 6 So8942
- 35578 MOLENAAR, A. Sprinkling in orchards; report on 1948 questionnaire returns. Wash. State Hort. Assoc. Proc. 44: 19, 21-24. 1948. 81 W273
- 35579 MOREL, C. La reforme juridique des irrigations. Génie Rural 42: 21-22. (Cont.) Jan. 1949. 58.8 Au8



- 35580 NORTH DAKOTA. AGRICULTURAL COLLEGE. What can the North Dakota Agricultural College do to advance the water program for the state? Fargo? 1948? 4 p. 276 N816W
- 35581 PATTERSON, P. Progressive irrigation. *Farm Life* 51: 6. Jan. 1, 1949. 6 R153  
In San Juan County, New Mexico.
- 35582 PAUKKONEN, N. Experiences with regard to digging machines. (In Swedish.) *Nord. Jordbrugsforsk.* 1948: 650-654. 11 N752  
For drainage digging.
- 35583 PEIKERT, F. W. "Man made" rain. *Mich. Farmer* 211: 138-139, 149. Feb. 19, 1949. 6 M58  
Irrigation in Michigan.
- 35584 POLK, H. E. A new look at reclamation. *Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam.* 9, 11 p. 1948? 292.9 Ir7
- 35585 RASCO, D. Student develops new irrigation syphon. *Southwest. Crop & Stock* 3(2): 10. Feb. 1949. 6 So8942
- 35586 RICHARDSON, T. C. Make the desert bloom. *Farmer-Stockman* 62(3): 32. Mar. 1949. 6 Ok4  
Chiefly irrigation.
- 35587 SHAUMIAN, V. A. Irrigation as a means of producing high and stable harvests. (In Russian.) *Sov. vet. Agron.* 6(7): 23-31. July 1948. 20 So84
- 35588 SISLER, G. P. Three years' experience with high and low sprinklers on the Ox Team Orchard. *Wash. State Hort. Assoc. Proc.* 44: 29-30. 1948. 81 W273
- 35589 SLAVIK, W. Reclamation's 1948-54 long-range program. *Reclam. Era* 35: 9-16. Jan. 1949. 156.84 R24
- 35590 SMITH, G. A. The first irrigation canal in San Bernardino Valley. *Good Earth Mag.* 3(3/4): 6-7. Jan./Feb. 1949. 6 G59
- 35591 SORTDAL, K. K., and others. Irrigation. (In Norwegian, Swedish, and Danish.) *Nord. Jordbrugsforsk.* 1948: 615-649. 11 N752  
Report on irrigation in Norway, by K. K. Sortdal, p. 615-619; Experiments and experiences with irrigation in Sweden, by G. Hallgren, p. 619-630; On irrigation experiments in Finland, by M. Wäre, p. 630-634; On irrigation in Denmark, by N. C. Nielsen, p. 634-642; Discussion, p. 642-649.
- 35592 SPOONER, H. New portable irrigation systems take guess work out of growing. *South. Seedsman* 12(3): 58-59. Mar. 1949. 61.8 So8
- 35593 SPOONER, H. L. Irrigation doubles squash production. *Mkt. Growers J.* 78(3): 22, 40. Mar. 1949. 6 M34
- 35594 TODD, C. T. First steps in reclaiming African desert land; East African experiment points the way to restore fertility to barren areas and halt land wastage. *Crown Colonist* 19: 141. Mar. 1949. 280.8 C88
- 35595 TORRAS URIARTE, L. Riada-1948. *Alcance. Cám. Ofic. Agr. B.* 57/58: 3-6. Nov./Dec. 1948. 15 AL4
- 35596 TRINTIGNAC, R. La mise en valeur des Doukkala. *B. Econ. et Social du Maroc* 10: 5-15. Apr. 1948. 280.8 So18  
Irrigation.
- 35597 U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC LANDS. La Prele Irrigation Project, resources of the Powder River Basin. Hearings, 80th Cong., 2d sess., Nov. 29, 1948, Douglas, Wyo., Nov. 30, 1948, Buffalo, Wyo. Washington, 1949. 194 p.
- 35598 U. S. GEOLOGICAL SURVEY. Surface water supply of Hawaii, July 1, 1944 to June 30, 1945. *U. S. Geol. Survey. Water-Supply Paper* 1045, 130 p. 1948. 407 G29W
- 35599 U. S. GEOLOGICAL SURVEY. Surface water supply of the United States, 1946. 14. Pacific Slope Basins in Oregon and Lower Columbia River Basin. *U. S. Geol. Survey. Water-Supply Paper* 1064, 255 p. 1948. 407 G29W
- 35600 USUELLI, F. Fertirrigation and livestock. (In Italian.) *Allevatore* 4(41): 1. Oct. 10, 1948. 49 AL55
- 35601 VOGEL, C. F. Irrigation by water spreading. *Agr. Engin.* 30: 84-85. Feb. 1949. 58.8 Ag83
- 35602 WHITEHEAD, S. B. Is your garden adequately drained? *Pop. Gard.* 50: 470. Feb. 5, 1949. 80 G1622
- 35603 WILLIAMS, J. S., MAUGHAN, J. H., and ISRAELSEN, O. W. Irrigation and drainage problems in the Lewiston area. *Farm & Home Sci. [Utah Sta.]* 10: 8-9. Mar. 1949. 100 Ut1F
- 35604 WILMOT-WARE, E. V. Trees and water control. *Trees [Dorchester]* 12: 119-120. Winter 1948. 99.8 T714
- 35605 WOOD, F. B. The proposed contract for the Central Valley Project. *Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam.* 7, 30 p. 1948? 292.9 Ir7
- 35606 WOOTEN, H. H., and LEE, A. T. M. Costly development is needed for most potential farm land. *Agr. Situation* 33: 6-7. Jan. 1949. 1 Ec7Ag  
Requires drainage, clearing and large-scale irrigation projects.
- 35607 YIEH, H. T. Studies on cotton irrigation in Kinghuei irrigation district in Shensi. (In Chinese.) *Chin. J. Cotton* 1(2): 14-27. Nov. 11, 1948. 72.8 C444  
English summary.

## Erosion and Erosion Control

- 35608 ABRAHAMSON, J. A. Soil conservation in nurseries. *Amer. Nurseryman* 88(9): 15, 60-61. Nov. 1, 1948. 80 Am371
- 35609 ALLRED, B. W. Reconditioning wind-blown sandy lands for grazing. *Soil Conserv.* 14: 153-155. Feb. 1949. 1.6 So3S
- 35610 ANDREWS, L. H. Soil erosion. *St. Joseph? Mich.*, 1948. 2 p. 56.7 An22
- 35611 ARGENTINA. MINISTERIO DE AGRICULTURA. La erosión eólica en la región pampeana y plan para la conservación de los suelos. *Argentina. Dir. de Inform. P. Misc.* 303, 235 p. 1948. 9 P943
- 35612 AUGER, A. La conservation des sols. *Terre de Chez Nous* 21(18): 9. Jan. 26, 1949. 7 T27
- 35613 BEAUMONT, A. B. Even backyard gardeners should try soil conservation. *Horticulture* 27: 90. Mar. 1949. 80 H787
- 35614 BENNETT, H. H. The challenge of soil conservation. *Natl. Grange Monthly* 47, i. e., 46(3): 4. Mar. 1949. 6 N215
- 35615 BODDY, H. Los Angeles college unique in Nation. *Soil Conserv.* 14: 178-180. Mar. 1949. 1.6 So3S  
Soil care and use of the Pierce School's acreage where the students learn by doing.
- 35616 BODDY, H. Terracing a good soil saver in some areas. *Idaho Farmer* 67: 108. Feb. 17, 1949. 6 G282
- 35617 BOTHA, J. P. Soil stability and veld management. *Farming So. Africa* 23: 747-750. Nov. 1948. 24 So842  
In Drakensberg, South Africa.
- 35618 BRUNE, G. M. Reservoir sedimentation in limestone sinkhole terrain. *Agr. Engin.* 30: 73-77. Feb. 1949. 58.8 Ag83
- 35619 BURVILL, G. H. Soil conservation methods for control of wind erosion. *West. Austral. Dept. Agr. J.* 2 ser. 25: 293-299. Sept. 1948. 23 W52J
- 35620 CALL, A. B., and WEBBER, A. J. Keep your top soil at home. *Natl. Co. Agent* 5(2): 12, 30. Feb. 1949. 275.28 N213
- 35621 CARRIER, L. Soil conservation plans in Old Testament days. *Prog. Farmer, Miss.-Ark.-La. Ed.* 64(2): 42. Feb. 1949. 6 So81
- 35622 CLARK, M. W. The value of terracing in Missouri. *Amer. Cyanograms* 1(8): 10-11. Winter 1949. 381 Am392
- 35623 CLAYTON, E. S. Soil erosion and its control. *Rev. ed. n. p.*, 1948. 95 p. 56.7 C57S
- 35624 COPE, C. Conservation by persuasion. *Land* 7: 502-504. Winter 1948/49. 279.8 L22
- 35625 DEVOTO, A. Time prances on. *Land* 7: 519-523. Winter 1948/49. 279.8 L22  
The problem of soil conservation and the food supply.
- 35626 DICKSON, J. S. Absentee landowners in Union County are found sound conservationists. *N. Mex. Stockman* 14(3): 52-53. Mar. 1949. 49 N462
- 35627 DONAHOO, A. W. Community soil conservation program, Sigourney, Iowa. *Agr. Ed. Mag.* 21: 206. Mar. 1949. 275.8 Ag8
- 35628 DOUTHIT, J. B. Where is your spade? *Clemson? S. C.*, 1948. 3 p. 56.7 D74  
Soil conservation.



35629 DULEY, F. L., and RUSSEL, J. C. Stubble mulch farming; new hope for eroded soils. *Crops & Soils* 1(5): 18-19. Feb. 1949. 6 W55

35630 ELLISON, W. D. Protecting the land against the raindrop's blast. *Sci. Monthly* 68: 241-251. Apr. 1949. 470 Sci23

35631 ESPRELLA, B., O. La erosión en los suelos de Bolivia. *Agros [Cochabamba]* 1: 87-88. Oct. 1948. 9.4 Ag86

35632 ETTER, A. G. Memoirs of misuse. *Mo. Bot. Gard. B.* 37: 34-40. Feb. 1949. 451 M69B  
Soil erosion.

35633 FERTILITY erosion of soil. *Fed. Reserve Bank Kansas City. Monthly Rev.* 34: 1-4. Jan. 31, 1949. 284.8 F31K

35634 GAYLE, H. K. How conservation farming benefits livestock producers. *Ky. Farmer* 85(3): 22, 23. Mar. 1949. 6 F2237

35635 GEDNEY, D. C. Land abuse, a flood, and then more floods. *Forest Leaves* 34 i.e. 39: 17. Jan./Feb. 1949. 99.8 F763

35636 GILLMAN, S. Common-sense methods to save soil. *Farmer's Weekly [Bloemfontein]* 76: 46-47, 49. Jan. 12, 1949. 24 F225

35637 GILLMAN, S. Nation-wide publicity in United States. *Veld Trust News* 5(4): 12-13. Jan. 1949. 56.8 V54

Soil conservation.

35638 GREENE, L. S., BROWN, V. H., and IVERSON, E. A. Rescued earth, a study of the public administration of natural resources in Tennessee. Knoxville, U. Tenn. Press, 1948. 204 p. 279.081 G83  
Includes soil and forest conservation.

35639 HARDY, W. M. Soil conservation districts give growers helping hand. *South. Florist & Nurseryman* 61(51): 15, 63-64. Mar. 18, 1949. 80 So86

35640 HARRISON, H. M. Soil and water conservation major concern. *East Tex.* 23(6): 9. Mar. 1949. 6 Ea73

35641 HARROLD, L. L. Soil loss as determined by watershed measurements. *Agr. Engin.* 30: 137-140. Mar. 1949. 58.8 Ag83

35642 HART, J. F. Erosion in a Wisconsin dairy community. *Econ. Geog.* 25(1): 41-46. Jan. 1949. 278.8 Ec7

35643 HAVVILLE, A. Nécessité de la plantation établie suivant les courbes de niveau. *Rev. Agr. de l'Afrique du Nord* 46: 659-660. Dec. 24, 1948. 80 R326

35644 HICKOK, R. B. Runoff losses from permanent pastures and woodlots. *Agr. Engin.* 30: Feb. 1949. 58.8 Ag83

35645 HOW TO combat lethargy: a panel discussion. *Land* 7: 609-613. Winter 1948/49. 279.8 L22

Discussion by E. Peterson, S. Snyder, S. Lottenville, and G. Wetherell.

Soil conservation.

35646 JONES, J. P., and WISE, J. M. Strip cropping made easy. *Soil Conserv.* 14: 176-177. Mar. 1949. 1.6 So38

In Pennsylvania.

35647 LEAVITT, K. How our [soil conservation] districts operate. *Land* 7: 592-593. Winter 1948/49. 279.8 L22

35648 MADRAS PRESIDENCY. Soil erosion, its prevention and control. Madras, Govt. Press, 1948. 184 p. 56.7 M262

35649 MARQUES, J. Q. A. Suggestions for the solution of the soil conservation problem. (In Portuguese.) *Colheitas e Mercados* 4(7/8): 27-33. July/Aug. 1948. 255.3 Sa652

Brazil.

35650 MINSHALL, N. E. Rates of runoff for the design of conservation structures in the Upper Mississippi Valley Upland Loessial areas. *U. S. Soil Conserv. Serv. SCS-TP-73*, 30 p. Jan. 1949. 1.96 Ad6Tp

35651 NICHOLS, A. G. Tax the man who neglects land; a new approach to compelling conservation. *Land* 7: 499-501. Winter 1948/49. 279.8 L22

35652 NORTH DAKOTA. AGRICULTURAL COLLEGE. EXTENSION SERV. Soil Conservation Districts in North Dakota. *N. Dak. Agr. Col. Ext. Spec. C.*, 6 p.-folder. Apr. 1948. 275.29 M812Sa

35653 NOSULENKO, I. U. A. New method of soil erosion control and of combatting drought. (In Russian.) *Pochvovedenie* 1948: 448-451. July 1948. 57.8 P34

35654 OSBORN, F. The downward spiral. *Land* 7: 513-515. Winter 1948/49. 279.8 L22  
Soil conservation.

35655 PENZHORN, K. E. W. Farm planning: one of two important stages in soil conservation. *Farmer & Home Companion* 38: 9. Jan. 7, 1949. 24 F227

35656 PRESNIAKOVA, G. A. Effect of degree of soil erosion on farm crop yields in the Podzolic zone. (In Russian.) *Pochvovedenie* 1948: 539-552. Ref. Sept. 1948. 57.8 P34

35657 PUENTES, M. Defensa de los suelos o catastrofe. *Rev. Agr. y Ganad.* 10(109): 24. Nov. 1948. 9.4 R327

Erosion in Colombia.

35658 PUGH, B. All forces pull together. *Soil Conserv.* 14: 150, 152. Feb. 1949. 1.6 So3S  
Model soil conservation farm in Louisiana.

35659 RAESIDE, J. D., and BAUMGART, I. L. Erosion on the downlands of Geraldine County, South Canterbury. *New Zeal. Dept. Sci. and Indus. Res. Soil Bur. P.* 16: 49-57. 1948. 56.9 N482

35660 RIGNAULT, J. Conservons nos terres. *Colon Franç. de Tunisie* 58(2077): 1-2. Dec. 11, 1948. 24 C712

35661 SÁNCHEZ, M. La erosión de la tierra laborable. *Cult. Mod.* 31: 411-412. Nov. 1948. 15 C89

35662 SCOTT, A. La conservation des sols: les formes d'érosion. *Terre de Chez Nous* 21(20): 9. Feb. 9, 1949. 7 T27

35663 SNEDDEN, J. The fable of the unfortunate farmer. *Macdonald Col. J.* 9(5): 6-7. Jan. 1949. 101 M144

Soil conservation.

35664 SOBOLEV, S. S. In regard to I. U. A. Nosulenko's article. (In Russian.) *Pochvovedenie* 1948: 452. July 1948. 57.8 P34

On soil erosion control.

35665 STACEY, W. A. Worn out farm rebuilt in one day. *Wood Preserv. News* 27: 1-4. Jan. 1949. 300.8 W853

35666 STARK, C. R., JR. Washington State soil conservation supervisors. *Com. Fert.* 78(3): 40-42. Mar. 1949. 57.8 C73

35667 STEELE, W. On the Little Sioux; a report of action. I and 7: 600-603. Winter 1948/49. 279.8 L22  
Soil conservation.

35668 STRONG, W. D. Community soil conservation program, Lake City, Iowa. *Agr. Ed. Mag.* 21: 206-207. Mar. 1949. 275.8 Ag8

35669 TALJAARD, M. S. Small stream-control works influence erosive behaviour and enable engineers to treat catchments as a whole. *Veld Trust News* 5(4): 14-16. Jan. 1949. 56.8 V54

35670 THOMPSON, G. T., and MORROW, J. A. Soil conservation competition in the Upper Murray region, 1948. *Victoria. Dept. Agr. J.* 46: 481-490. Nov. 1948. 23 V66J

35671 U. S. SOIL CONSERVATION SERV. Books dealing with soil and water conservation and related subjects. *Rev. Upper Darby, Pa.*, 1949. 6 p. 1.9601 B64

35672 U. S. SOIL CONSERVATION SERV. Summaries of annual reports of research project supervisors for calendar year 1947, by G. R. Stewart. Washington, 1948. 121 p. 1.96 Su6

35673 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the bunchgrass-sagebrush range in the East Wenatchee Soil Conservation District, by A. E. Blomdahl. Wenatchee, Wash., 1948. 13 p. 1.9609 R16

35674 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the grass-sagebrush range in the Owyhee Soil Conservation District, Elko County, Nevada, by D. F. Collins. n. p., 1948. 14 p. 1.9609 R162

35675 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the sagebrush-grassland forage type in the West Side Soil Conservation District, by V. P. McConnell. Idaho Falls, Idaho, 1948. 16 p. 1.9609 R163



35676 U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the scab land-grass type for the West Whitman Soil Conservation District, by R. Newell. Lacrosse, Wash., 1948. 14 p. 1.9609 R164

35677 VENINO, P. Our land. (In Italian.) B. dell' Agr. 82(5): 2. Feb. 27, 1948. 16 B87  
Soil erosion in Italy.

35678 WHITE, S. E. Processes of erosion on steep slopes of Oahu, Hawaii. Amer. J. Sci. 247: 168-186. Ref. Mar. 1949. 470 Am34

#### Sanitation

35679 ASHTON, J. R. The tile system of soil sterilizing. Grower [London] 31: 443. Mar. 5, 1949. 286.83 M34

35680 BEHR, E. A. Application of pentachlorophenol as soil poison and wood preservative. Pests 17(3): 19-20. 22. Mar. 1949. 449.8 Ex8

35681 DE ONG, E. R. Soil fumigation; summary of chemical and their uses. Calif. Fruit & Grape Grower 3: 7-8. Jan. 1949. 95.8 G762

35682 DIETER, C. E., and COULTER, L. L. Dowfume MC-2 for fumigation of plant beds. Down to Earth 4(4): 2-5. Spring 1949. 381 D75

35683 GURLEV, A. S. Chemical disinfection of old soils in protected ground. (In Russian.) Sad i Ogorod 1948(7): 56-58. July 1948. 87 Sa1  
Chloropicrin as disinfectant.

35684 GURRIERI, V. Importance of soil disinfection. (In Italian.) Riv. della Ortoflorofruttic. Ital. 32: 127-128. July/Aug. 1948. 86 R22

35685 HÉBERT, J. Remarques sur l'action des anti-parasitaires dans le sol. France. Min. de l'Agr. B. Tech. d'Inform. 33: 497-500. Oct. 1948. 14 F844B

35686 KLANTE, C. Gedanken zur bodenreform; der "gärtnerhof" eine neue betriebsform. Süddeut. Erwerbsgärt. 2: 61. (To be cont.) Aug. 1948. 80 Su2  
For nematode control.

35687 LEROY, A. Fertilisez vos terres en les désinfectant. Vie à la Campagne 38: 26. Jan. 1949. 80 V67

35688 NORLIN, C. Soil fumigation in the West. Com. Fert. 78(3): 37. Mar. 1949. 57.8 C73

35689 SCOTT, E. L. Soil sterilization. Natl. Chrysanthemum Soc. B. 4(4): 24-25. Fourth Quart. 1948. 96.519 Ea7

35690 SIMPSON, F. J., and NEWTON, J. D. Studies of steam sterilization of soils. II. Canad. J. Res. Sect. C, Bot. Sci. 27: 1-13. Ref. Feb. 1949. 470 C16C

35691 STEINBERG, R. A., and CLAYTON, E. E. Chemical soil treatment for black root rot of tobacco in the greenhouse. Phytopathology 39: 155-157. Feb. 1949. 464.8 P56

#### MATERIALS FOR SOIL IMPROVEMENT

35692 CARLIER, L. Quelques engrais économiques. Vaucluse Agr. 5: 11. Jan. 1, 1949. 14 V26

35693 CHRISTENSEN, B. T. Are commercial fertilizers harmful? Com. Fert. 78(3): 22-23, 47-48. Mar. 1949. 57.8 C73

35694 HOPKINS, D. P. Organic and inorganic fertilizers. Estate Mag. 49: 54-57. Feb. 1949. 10 Es8

35695 HUTCHESON, T. B. The ABC's of fertilizer knowledge. Prog. Farmer, Car-Va. Ed. 64(2): 13, 115. Feb. 1949. 6 P945

35696 MULLALLY, M. J. Artificial manures. Beet Grower 2: 377-382. Jan. 1949. 66.8 B392

35697 RAMONA, R. DE. Pueden los fertilizantes químicos reemplazar los abonos orgánicos? Cult. Mod. 31: 458-459. Dec. 1948. 15 C89

35698 RECASENS, L. DE. Los orujos de la uva como abono. Cult. Mod. 31: 412. Nov. 1948. 15 C89

35699 RODALE, R. Fish for fertilizer. Organic Gard. 14(3): 21. Mar. 1949. 56.8 Or3

35700 TOBEY, E. R. Commercial fertilizers, 1948. Maine. Agr. Expt. Sta. Off. Insp. 209, 36 p. Oct. 1948. 100 M28S

Inspection and analysis.

35701 WOLF, B. The possible use of bark in soils. Northeast. Wood Util. Council. B. 25: 109-114. Jan. 1949. 99.9 N819

Discussion, p. 114-117.

#### Primary Materials

35702 ANDREWS, W. D. Anhydrous ammonia as a source of nitrogen. Better Farming Methods 21(3): 22, 62. Mar. 1949. 58.8 B46

35703 BARR, H. T. Notes on anhydrous ammonia. Sugar B. 27: 174, 180. Mar. 15, 1949. 65.9 Am32

35704 GILLIN, P. Les engrais chimiques. Colon Franç. de Tunisie 59(2082): 3. Jan. 15, 1949. 24 C712

35705 SHERWIN, K. A., and STEVENTON, J. W. Granulation of compound fertilizers: some current production problems and developments. (Sum.) Chem. & Indus. 1949: 105. Feb. 12, 1949. 382 M31C

35706 SUNDERLAND, D. Fertilizers—where they come from; a review of elementary facts about fundamental plant food. Irrig. Farmer 6(10): 4, 14. Feb. 3, 1949. 55.8 Ir78

35707 THOMANN. Was ist rüchlingphosphat? Württemb. Wehnl. f. Landw. 115: 395. Dec. 18, 1948. 18 W96

35708 THOMPSON, H. L., and others. Properties of diammonium phosphate fertilizer. Indus. & Engin. Chem. 41: 485-494. Ref. Mar. 1949. 381 J825

P. Miller, F. H. Dole, and A. Kaplan, joint authors.

35709 TINDALL, C. Magic for crops. Kans. Farmer 86: 6, 22. Jan. 1, 1949. 6 K13  
Fertilizer manufacture.

#### Secondary and Minor Element Materials

35710 GILBERT, F. C. The value of trace elements in fertilizers. Agr. Chem. 4(2): 24-27, 73, 75-77. Feb. 1949. 381 Ag8

35711 HARDIN, L. J., and MACINTIRE, W. H. A volumetric method for the determination of magnesium. Assoc. Off. Agr. Chem. J. 32(1): 139-143. Feb. 15, 1949. 381 As7  
In fertilizers.

35712 HUTCHESON, T. B. What about "minor elements" and lime? Prog. Farmer, Car-Va. Ed. 64 (3): 26, 129. Mar. 1949. 6 P945

35713 WILSON, R. D. Some responses of lettuce to the application of molybdenum. Austral. Inst. Agr. Sci. J. 14: 180-187. Ref. Dec. 1948. 23 Au74

#### Mixed Fertilizers and Fertilizer Technology

35714 FOURGEAUD, J. Les engrais de mélange. Paysan Franç. 24(374): 15. Feb. 1949. 14 P29

35715 GILLIN, P. Les mélanges d'engrais ou engrais composés. Colon Franç. de Tunisie 58(2077): 6. Dec. 11, 1948. 24 C712

35716 JACOB, K. D. Fertilizers. Analyt. Chem. 21: 208-215. Ref. Feb. 1949. 381 J825A  
Analysis.

35717 JERNA, G. "Compounds"—what they are, their nature, their advantages. (In Italian.) Terra e Sole 75/76: 771-773. Dec. 1948. 16 T273  
Fertilizers.

35718 KUNSTMANN, F. W. Über die bestimmung kleiner ammoniakmengen in kleinen mengen pflanzennähr-lösung mit hilfe des pulfrich-photometers. Z. f. Pflanzenernähr., Düngung. Bodenk. 43(1): 67-69. 1949. 384 Z343A

35719 BRITISH SULPHATE OF AMMONIA FEDERATION, LIMITED. Annual report, 1947/48. London, 1948. 6 p. 57.9 B77

#### Fertilizer Statistics

35720 DOETSCH, J. F. Chilean nitrate supplies for 1949 crops. Victory Farm Forum 34: 2. Mar. 1949. 281.8 F226

35721 FUDGE, J. F. Distribution of fertilizer sales in Texas, July 1-December 31, 1948. Tex. Agr. Expt. Sta. Prog. Rpt. 1150, 2 p. Feb. 18, 1949. 100 T31 P

35722 HAGANDER, H. The fertilizer distribution. (In Swedish.) Lantmannen 33: 108, 110. Feb. 12, 1949. 11 L234

35723 OOG, W. G. Role des engrais dans l'économie nationale britannique. Ann. Agron. 18: 687-700. Nov./Dec. 1948. 14 An75A

35724 TULOOU, J. Du nouveau en matière de transport d'engrais. Génie Rural 42: 16. Jan. 1949. 58.8 Au8



35725 VAN ZYL, J. P. Fertilizer requirements for 1949. (In Afrikaans.) Wynboer 17(307): 22-23. Dec. 1948. 390.8 W724

35726 WENGERT, N. The land—TVA—and the fertilizer industry. Land Econ. 25: 11-21. Feb. 1949. 282.8 J82

#### Mineral Soil Amendments

35727 SCHLAGER, H. Kalkdüngung und düngelkalk. Pflüg 2: 7-8. Jan. 1949. 19 P48

#### Manures and Composts

35728 ANDREEVSKII, N. Speedy preparation of plant compost. (In Russian.) Sad i Ogorod 1948(7): 78. July 1948. 87 S41

35729 AVILA, E. The guano industry of Peru. (In Portuguese.) Fazenda 44(2): 29. Feb. 1949. 6 H11P

35730 BERNARD, P. Bétail, fumier et engrais verts. Monit. Agr. 2(56): 2. Feb. 6, 1949. 14 M744

35731 BLANES, F. Necesidad de cuidar el estiércol. Balearic Isl. Diputación Prov. B. de Agr. 50: 7-8. Nov. 1948. 15 B19

35732 BOTES, J. P. J. Makers of guano; nature's factory on Bird Island, South of Port Elizabeth. Farmer's Weekly [Bloemfontein] 76: 46-47. Dec. 22, 1948. 24 F225

35733 CHAPMAN, C. J. Reinforce farm manure. Hoard's Dairyman 94: 205. Mar. 10, 1949. 44.8 H65

35734 EWESON, E. Manufactured compost; farm wastes and city sewage used in new-process product for restoring worn-out land. (Abs.) Chemurgic Digest 8(3): 9-11. Mar. 1949. 381 N213Na

35735 FLECHER, C. C. Rabbit manure as fertilizer. Small Stock Mag. 33(3): 22. Mar. 1949. 48.8 P492

35736 GALLETTI, A. C. Good care for manure. (In Italian.) Agr. Tosc. 3: 380-381. Dec. 1948. 16 Ag827

35737 GOTTFELD, S. F. Remarks on the treatment of organic manure in winter. (In Hebrew.) Hassadeh 29: 104. Dec. 1948. 26 H27

35738 HELLSTRÖM, P. Winter application of manure. (In Swedish.) Lantmannen 33: 112. Feb. 12, 1949. 11 L234

35739 KING, F. C. Whither civilisation? I. Guild Gard. 24(2): 2-3. Feb. 1949. 80 G94

Compost and food production.

35740 LLOYD-THOMAS, W. Foil to soil exhaustion. Fruit & Prod. 3(7): 29-30. Nov. 1948. 80 F9427

Poultry in orchards.

35741 MANELL, E., and IVERSEN, K. Storage and utilization of natural fertilizers. (In Swedish and Danish.) Nord. Jordbrugsforsk. 1948: 677-687. 11 N752

Care and utilization of stable manure, by E. Manell, p. 677-681; Effects of climate on storage and utilization of liquid manure, by K. Iversen, p. 682-687; Discussion, p. 687-688.

35742 MURAIAMA, S. J. Manure from the corral for organic fertilizers. (In Portuguese.) Lav. Arroz. 2(23): 31-32. Nov. 1948. 59.8 L39

35743 PFEIFFER, E. A preliminary report on humus formation in the root areas of plants under different soil management. Bio-dynamics 7: 20-27. Fall/Winter 1948. 56.8 B52

35744 POIROT, E. M. Making compost on the farm. Chemurgic Digest 8(3): 15, 17. Mar. 1949. 381 N213Na

35745 POPP, M., and MARXEN, J. Nuevas investigaciones sobre el guano. Co. Admin. del Guano, Peru. B. 29: 85-105, 113-133. Ref. June-July 1948. 57.9 C73B

35746 QUARRELL, C. P. Compost is the key; high humus content means bigger vegetable yields. Nurseryman & Seedsman 108: 638-639. Feb. 24, 1949. 80 N933

35747 RODALE, J. I. Composting on a farm scale. Organic Gard. 14(3): 12-17. Mar. 1949. 56.8 Or3

35748 TYMANN, V. C. The law vs. the compost-pile. Organic Gard. 14(3): 26-28. Mar. 1949. 56.8 Or3

35749 VOLPINI, A. Organic fertilizers. (In Italian.) Allevatore 4(45): 3. Nov. 7, 1948. 49 AL55

Sheep and cow manures.

35750 WILSON, F. B. A system of composting farm and village waste. East African Agr. J. 14: 82-85. Oct. 1948. 24 Ea74

## FORESTRY

### FOREST ECONOMICS AND POLICY

35751 ANDREWS, H. J. The Pacific Northwest looks ahead in forestry. West. Forestry and Conserv. Assoc. Proc. 39: 8-10. 1948. 99.9 W522

35752 ARZE L., R. Hacia una política forestal. Agros [Cochabamba] 1: 77-79. Oct. 1948. 9.4 Ag86

35753 BARTH, J. Vue sur le marché des bois italiens. Bois et Scieries 55: 41. Jan. 13, 1949. 99.81 B632

35754 BESLEY, L. Taxation of forest lands in West Virginia. W. Va. Agr. Expt. Sta. B. 333, 39 p. Nov. 1948. 100 W52

35755 BRACHMANN-NAGEL, E. Oestereichs holzwirtschaft und der Marshallplan. Österr. Forst- u. Holzwirtschaft. 3: 225-228. Aug. 7, 1948. 99.81 Os7

35756 BUCHHOLZ, E. The forest and wood utilization of the Soviet Union. Pulp & Paper Mag. Canada 50(3): 279-280, 282. Feb. 1949. 302.8 P96

35757 BURKART, E. Eine neue methode der bodenwertermittlung? Allg. Forst- u. Holzwirtschaft. Ztg. 59: 192-193. Dec. 1948. 99.8 AL53

35758 DESFARGES, P. Une nouvelle discussion sur le fond forestier national. Bois et Scieries 55: 62-63. Jan. 20, 1949. 99.81 B632

35759 DESFARGES, P. A propos des "maxima" reboisement et fonds forestier. Bois et Scieries 55: 34-35. Jan. 13, 1949. 99.81 B632

35760 DIETERICH, V. Mehr ökologisches (organisches) denken auch in der beurteilung und erfüllung forstpolitischer aufgaben. Allg. Forstz. 3: 41-44. Mar. 15, 1948. 99.8 AL52

35761 FLATSCHER, H. Die forstwirtschaft der erde. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 185-187. Dec. 1948. 99.8 AL53

35762 FORESTRY in Asia and the Pacific. Unasylva 2: 291-299. Nov./Dec. 1948. 99.8 Un1

35763 FRÖHLICH, I. Von der forstwirtschaft Rumäniens. Österr. Forst- u. Holzwirtschaft. 3: 248. Aug. 21, 1948. 99.81 Os7

35764 GARRISON, P. M. What is private forestry doing in the South? South. Lumberman 178(2226): 38, 40. Jan. 1, 1949. 99.81 So82

35765 GAULT, A. La forêt française en 1948 et son avenir. Monit. Agr. 2(53): 12. Jan. 16, 1949. 14 M744

35766 GILLETT, C. A. Trees for America. Paper Mill News 72(9): 98. Feb. 26, 1949. 302.8 P195

35767 GREELEY, W. B. Our expanding forest economy. Banker & Business 47(8): 3. Feb. 1949. 284.8 B225

35768 GRIMM, W. Ist der deutsche wald entrechtet? Allg. Forstz. 3: 68-69. Apr. 15, 1948. 99.8 AL52

35769 HARPER, V. L. New horizons in forestry. Forest Leaves 34 i.e. 39: 1-2. Jan./Feb. 1949. 99.8 F763

35770 HASEL, A. A., and POLI, A. A new approach to forest ownership surveys. Land Econ. 25: 1-10. Feb. 1949. 282.8 J82

35771 HEERMANCE, E. L. Connwood, Inc.—a cooperative forestry program. Timber Prod. Assoc. B. 69: 5-7. Dec. 1948. 99.9 T482B

35772 HENSLER. Die neuen holzpreise in Südbaden. Holz-Zentbl. 74: 615. Dec. 14, 1948. 99.81 H742

35773 HERNANDEZ MENDIRICHAGA, M. Reforestación. Cult. Mod. 31: 415-416. Nov. 1948. 15 C89

35774 HOWARD, H. "More trees for Alabama" project adopts tree farm practices as next phase of its program. Ala. Conserv. 20(8): 16-17. Feb. 1949. 279.8 AL1

35775 KAUFFMAN, E. Planting America. Amer. Forests 55(3): 6-10. Mar. 1949. 99.8 F762

35776 KNIGHT, G. E. The forests yesterday and to-day—a changing point of view. Sylva 4(6): 13. 1948. 99.8 Sy5

35777 KRUEDENER, A. FREIHERR VON. Probleme der aufforstung [Germany]. Kurzbrieft f. Ernähr. u. Landw. 10, A IV 1, 6 p. Oct. 1948. 281.8 K96



- 35778 LA PANOUSE, DE. Comment et pourquoi faut-il utiliser le Fonds Forestier National? Agr. Prat. 112: 429-432. Déc. 1948. 14 J82  
France
- 35779 LEE, S. C. Forestry in China. China Weekly Rev. 112: 166-167. Jan. 15, 1949. 280.8 C445
- 35780 LEE, S. C., and HAN, N. Forestry in China. Unasylva 2: 304-308. Nov./Dec. 1948. 99.8 Un1
- 35781 MACDONALD, D. A. Canadian forestry looks ahead. West. Forestry and Conserv. Assoc. Proc. 39: 6-8. 1948. 99.9 W522
- 35782 MCKECHNIE, B. Norwegian forestry: recovery and development. Wood [London] 14(2): 53-55. Feb. 1949. 99.82 W855
- 35783 OLHAMMAR, G. 237 billion cubic meter wood cut down since 1939. (In Swedish.) Skogen 36: 38-39. Feb. 1, 1949. 99.8 Sk51
- 35784 RIQUELME INDA, J. Los bosques, el suelo y el agua. Confed. de Cám. Nac. de Com. Carta Semanal 12(611): 16-17. (Cont.) Feb. 5, 1949. 286.8 C76  
Mexico.
- 35785 ROTHROCK, J. T. What forestry is? Forest Leaves 34 i.e. 39: 21-22. Jan./Feb. 1949. 99.8 F763
- 35786 SCHENCK, C. A. Forestry in Germany, present and prospective. New York, Newsprint Service Bureau, 1948. 42 p. 99.66 Sch2
- 35787 SEN, B. R. Utilization of the forest wealth of India. Unasylva 2: 301-303. Nov./Dec. 1948. 99.8 Un1
- 35788 SMITH, D. N. Reforestation project. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 3. Nov./Dec. 1948. 423.92 C16F
- 35789 SPEER, J. Die forstwirtschaft im wirtschaftsgeschehen des jahres 1948. Allg. Forstz. 4: 1-5. Jan. 5, 1949. 99.8 AL52
- 35790 SPEER, J. Die lage des deutschen waldes. Allg. Forstz. 3: 9-12, 17-19. Jan. 15-Feb. 1, 1948. 99.8 AL52
- 35791 STAPELFELD, F. Holzpreise und holzausfuhr. Holz-Zentbl. 74: 625-626. Dec. 17, 1948. 99.81 H742
- 35792 STRUNZ, H. Irren ist menschlich—aber nicht beim finanzamt. Österr. Forst- u. Holzwirtschaft. 3: 264-265. Sept. 3, 1948. 99.81 Os7  
Taxation.
- 35793 TAMESIS, F. Philippine forests and forestry. Unasylva 2: 316-325. Nov./Dec. 1948. 99.8 Un1
- 35794 THONET, H. M. Die waldwerttafel, ein neuer behelf für waldwertschätzung. Allg. Forst- u. Holzwirtschaft. Ztg. 60: 6-8. Jan. 1949. 99.8 AL53
- 35795 VERHILLE, H. Le fonds forestier national. Féd. Natl. des Synd. de Propriétaires Forest. Sylvic. B. Off. 16: 4-5. July/Aug. 1948. 99.9 F315  
France.
- Legislation
- 35796 DUBOIS. Rapport sur les incidences des lois sociales agricoles sur la forêt. Féd. Natl. des Synd. de Propriétaires Forest. Sylvic. B. Off. 16: 5. July/Aug. 1948. 99.9 F315
- 35797 U. S. LAWS, STATUTES, ETC. Laws relating to forestry, game conservation, flood control and related subjects. Washington, 1948. 317 p. 279.12 Un3
- 35798 VIRGINIA. LAWS, STATUTES, ETC. Forest products tax act of 1948, issued by Dept. of Taxation. Richmond, Div. of Purchase and Print., 1948. 8 p. 99.57 V81  
Includes The Forest Situation in Virginia, by G. W. Dean.
- FOREST DESCRIPTION AND RESOURCES
- 35799 BACHMAN, E. Minnesotans: your forests. Lake States Timber Digest 3(10): 8, 10, 14. Feb. 24, 1949. 99.81 L14
- 35800 BECKING, L. G. M. B. Notes on jungle trees. I. Chron. Nat. 104: 271-277. Ref. Oct. 1948. 514 B31  
Netherlands Indies.
- 35801 BRANDNER, H. P. Mt. Baker National Forest: forester's problem. Wash. U. Forest Club Quart. 22: 19-21, 23-26, 28. 1948/49. 99.9 W275Q
- 35802 CAIN, S. A. Billions of board feet. Cranbrook Inst. Sci. News Let. 18: 58-62. Mar. 1949. 410.9 C85N  
Michigan.
- 35803 CHAUDÉ, P. D'ici cinquante ans: plus de bois en France à moins que. Forêt Franç. 133: 1-2. Feb. 1949. 99.8 F7682
- 35804 COCKROFT, R. S. Timber supply in Mississippi. South. Lumberman 178(2231): 34. Mar. 15, 1949. 99.81 So82
- 35805 EDWARDS, F. Ungava future forest area; tree line advancing; climate warmer and trees growing bigger. Woodland World 2(2): 1. Feb. 1949. 99.8 W853
- 35806 GEETE, E. The deanery park in Svärdsjö - the seven mile forest. (In Swedish.) Skogen 36: 24. Jan. 15, 1949. 99.8 Sk51
- 35807 GÓMEZ, J. M. Costa Rica y sus recursos forestales. Suelo Tico 1: 138-140. Sept. 1948. 8 Su2
- 35808 HUBERMAN, M. A. Forests in ferment. II. Amer. Forests 55(3): 18-20, 40-41. Mar. 1949. 99.8 F762
- 35809 LALLEMAND. La forêt Girondine. 13. Bois et Résineux 30(1482): 1. Dec. 30, 1948/Jan. 10, 1949. 99.82 B63
- 35810 MELOUN, K. Auwald. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 188-190. Dec. 1948. 99.8 AL53
- 35811 MOORHOUSE, S. England's first national forest park. So. African Timber Trades' J. 3(2): 17-18. Nov. 1948. 99.8 So82
- 35812 NORMAND, J. Les eaux et les forêts en Tunisie. Bois et Scieries 55: 91-94. Jan. 27, 1949. 99.81 B632
- 35813 SAPRIZA VERA, C. Como apreciar los árboles en los balnearios de nuestras costas. Uruguay. Min. de Ganad. y Agr. B. Inform. 237: 4; 240: 9; 243: 6. (Cont.) Sept. 23, Oct. 14, Nov. 4, 1948. 9.9 G15B
- 35814 SERANDOUR, P. La Forêt de Bondy. Monit. Agr. 2(53): 3. Jan. 16, 1949. 14 M744
- 35815 VOLPINI, C. Wood reserves of the forest. (In Italian.) Ital. Forest. e Mont. 3: 346-351. Nov./Dec. 1948. 99.8 It12
- 35816 WILLIAMS, A. B. The native forests of Cuyahoga County, Ohio. Cleveland Mus. Nat. Hist. Sci. P. 9, 90 p. Ref. Jan. 1949. 500 C59S
- 35817 XIMÉNEZ DE EMBÚN Y GONZÁLEZ-ARNAO, J. Sobre estética forestal y parques nacionales; el bello monte valldemosino y la técnica. II. Balearic Isl. Diputación Prov. B. de Agr. 51: 2-4. Dec. 1948. 15 B19
- Individual Genera and Species
- 35818 ALDERSON, J. J. Replacing our red cedar. Austral. Timber J. 14: 683, 705. Nov. 1948. 99.81 Au7
- 35819 AUDET, L. P. La gloire vacillante du chêne. Paysana 2(12): 12-13. Feb. 1949. 7 P29
- 35820 BEE, E. Jarrah [Eucalyptus marginata] Australia's "believe it or not" tree. Indian Forester 74: 177-180. Apr. 1948. 99.8 In2
- 35821 CHAMPION, H. G. The kauri tree in New Zealand. Nature [London] 163: 238-239. Feb. 12, 1949. 472 N21
- 35822 DUBRET, R. Le tremble et son emploi. Bois et Scieries 55: 61-62. Jan. 20, 1949. 99.81 B632
- 35823 FONSECA FILHO, C. DE A. Notes on the "Jacaré" (Piptadenia communis Benth.). (In Portuguese.) Rev. Ceres 7: 355-360. Jan./May 1948. 9.2 C332
- 35824 GEHLOT, C. B. Food, fodder, wood: dry cum wet farming series. Indian Forester 74: 165-172. Apr. 1948. 99.8 In2  
Mesquite for reclamation.
- 35825 GILMAN, W. Maple—the mystery tree. Nature Mag. 42: 119-122. Mar. 1949. 409.6 N214
- 35826 LANGLET, O. What should we call our birches. (In Swedish.) Skogen 36: 40. Feb. 1, 1949. 99.8 Sk51
- 35827 LITTLEFIELD, E. The cedars—white and red. N. Y. State Conserv. 3(4): 28. Feb./Mar. 1949. 279.8 N48
- 35828 MAYER, J. Die weisstanne, ein dem verschwinden naher waldbaum. Allgäuer Bauernbl. 16: 342. Dec. 24, 1948. 18 AL53
- 35829 NEVES, C. M. B. The cork oak (Quercus suber L.) in Portugal according to Daveau. (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 10: 611-614. Oct. 1948. 309.9 J96  
English summary, p. CVI.
- 35830 OLD, T. G. The maple sap is flowing. Nature Lover 5: 555-557. Dec. 1948. 410 N218



35831 PEATTIE, D. C. The sugar maple. *Atlantic Monthly* 183(3): 50-53. Mar. 1949. 110 At6

35832 RUDOLF, P. O. Hybrid poplar planting in the Lake States. U. S. Forest Serv. Lake States Forest Expt. Sta. Paper 14, 17 p. Dec. 1948. 1.9622 L2St2

35833 WATTS, R. L. White pine. *Pa. Farmer* 140: 155, 168. Feb. 26, 1949. 6 P383

35834 WILL, G. F. The diamond willow [*Salix missouriensis*]. *N. & S. Dak. Hort.* 22: 25. Feb. 1949. 81 N817

#### FOREST ADMINISTRATION AND MANAGEMENT

35835 ANDREWS, L. R. Some problems under the sustained yield management plan in British Columbia. *West. Forestry and Conserv. Assoc. Proc.* 39: 22-23. 1948. 99.9 W522

35836 AUFDERHEIDE, R. Getting forestry into the logging plan. *Timberman* 50(5): 53-56, 96. Mar. 1949. 99.81 T484

35837 BURKART, E. Nochmals zur frage der forstlichen einheitsbewertung. *Allg. Forst- u. Holzwirtschaft* Ztg. 60: 4-6. Jan. 1949. 99.8 AL53

35838 COPE, J. A. Social approach to sustained yield management. *J. Forestry* 47: 221-222. Mar. 1949. 99.8 F768

35839 GARRISON, P. M. Utilization of low quality southern hardwoods and its effect on forest management. *Wood Prod.* 54(3): 20, 22. Mar. 1949. 99.82 W856

35840 GILMOUR, J. D. Realistic forest management for British Columbia. *Brit. Columbia Lumberman* 33(2): 47-48, 76, 78, 99, 102, 104. Feb. 1949. 99.81 B77

35841 GLEASON, C. H., and MACBEAN, D. G. Use of the helicopter for sowing mustard seed in burned areas of southern California. *J. Forestry* 47: 192-195. Mar. 1949. 99.8 F768

35842 GOLD COAST. FORESTRY DEPARTMENT. Annual report, 1947/48. Accra, Gold Coast, 1948. 23 p. 99.9 G56

35843 GOMES, P. More wood. (In Portuguese.) *Lav. Arroz.* 2(22): 23. Oct. 1948. 59.8 L39

35844 GROVER, H. Welches bedeutungsvolle problem der forstwirtschaft kam bei der hochschulwoche nicht zur sprache. *Österr. Forst- u. Holzwirtschaft.* 3: 247-248. Aug. 21, 1948. 99.81 Os7  
Forest management.

35845 GÜDE, J. Ueber die mögliche zuwachsleistung unserer forste. *Österr. Forst- u. Holzwirtschaft.* 3: 211-213. July 21, 1948. 99.81 Os7

35846 HELANDER, A. B. Management of the crown forest in Finland. (In Swedish.) *Suomen Paperi ja Puutavaralehti* 30: 135-138, 221-223, 358-361, 412-414, 429-431. (Cont.) 1948. 302.8 P1991

35847 HUTCHISON, O. K. Aerial photo alignment guide. *J. Forestry* 47: 204-206. Mar. 1949. 99.8 F768

35848 JIRIKOWSKI, G. Erfahrungen auf dem gebiete der leistungssteigerung. *Allg. Forst- u. Holzwirtschaft.* Ztg. 60: 11-12. Jan. 1949. 99.8 AL53

35849 KLOTZ, K. Gerechte verteilung der holzumlage. *Allg. Forstz.* 3: 139-141. July 15, 1948. 99.8 AL52

35850 KRAUS, H. Durchforstung. *Österr. Forst- u. Holzwirtschaft.* 3: 264. Sept. 3, 1948. 99.81 Os7

35851 KRUTZSCH, Zwangsnutzungen-walderhaltung. *Forst u. Holz* 4: 17-20. Jan. 15, 1949. 99.8 F7724

35852 MACFARLANE, H. F. Forestry management in Wisconsin. *Wis Conserv. B.* 14(2): 3-5. Feb. 1949. 279.8 W752

35853 MAINE. FOREST SERV. Directory and manual, 1948. Augusta, 1948. 94 p. 99.9 M282M

35854 MANTEL, W. Zeitgemässe forsteinrichtung. *Allg. Forstz.* 3: 25-27. Feb. 15, 1948. 99.8 AL52

35855 NEUHAUS, E. Lastenausgleich und bewertungsrichtlinien. *Forst u. Holz* 4: 22-24. Jan. 15, 1949. 99.8 F7724

35856 ORCHARD, C. D. British Columbia's forest management licenses. *West. Forestry and Conserv. Assoc. Proc.* 39: 20-21. 1948. 99.9 W522

35857 PEARSON, G. A. Management of cut-over land in the interior ponderosa pine type. *J. Forestry* 47: 172-178. Mar. 1949. 99.8 F768

35858 PENNSYLVANIA GAME COMMISSION. FIELD MANAGEMENT BUREAU. Federal aid in forestry-wildlife development. *Game News Pa.* 19(10): 8-9. Jan. 1949. 412.9 P38Pe

35859 SOME general problems of management in growing a new forest. *West. Forestry and Conserv. Assoc. Proc.* 39: 15-20. 1948. 99.9 W522

Douglas fir region, by C. W. Richen; Redwood region, by E. T. F. Wohlenberg; and Ponderosa pine region, by G. C. Flanagan.

35860 SOUTH AUSTRALIA. WOODS AND FORESTS DEPT. Annual report, 1946/47. Adelaide, 1948. 14 p. 99.9 So8R

35861 STRONG, T. A. Report on forest administration in the Malayan Union for the year 1947. Kuala Lumpur, 1948. 26 p. 99.9 F31

35862 TASCHENBUCH für forst- und holzwirte. Berlin, Deutsche Zentralverwaltung in der Sowjetischen Besatzungszone, 1948. 303 p. 99 T183

35863 UNION OF SOUTH AFRICA. DEPT. OF FORESTRY. Annual report, 1946/47. Pretoria, 1948. 14 p. 99.9 So84R

35864 U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. Forest products research in relation to soil and water conservation, by J. A. Hall. Portland Oreg., 1949. 8 p. 1.9622 P2H14

Forest management.

35865 THE UTILIZATION of the intermediate crop. *West. Forestry and Conserv. Assoc. Proc.* 39: 42-49. 1948. 99.9 W522

General outline, by T. G. Wright; Utilization of secondary species, by W. R. Schofield; Problems of salvaging the intermediate cutting, by D. Taylor; Marking trees for profit in the Douglas fir region, by W. A. Tinney.

35866 WEATHERBY, H. Modern air survey techniques place latest facilities within reach of small operator. *Brit. Columbia Lumberman* 33(2): 50-51. Feb. 1949. 99.81 B77

35867 WESTERN AUSTRALIA. FOREST DEPARTMENT. Annual report, 1948. Perth, 1948. 17 p. 99.9 W52A

35868 WESTERN FORESTRY AND CONSERVATION ASSOCIATION. Permanent forest production; an analysis of sustained yield management in western forests. Portland, Oreg., 1948. 62 p. 99.61 W524

35869 WILLIAMS, A. M., JR. Five years of sustained-yield operations. *South. Lumberman* 178(2229): 41-42. Feb. 15, 1949. 99.81 So82

35870 WISCONSIN. STATE FORESTRY ADVISORY COMMITTEE. Forestry management in Wisconsin. Madison, 1948. 4 p. 99.61 W75

35871 WITZGALL, L. Zeitgemässe forsteinrichtung. *Allg. Forstz.* 3: 91-93. May 15, 1948. 99.8 AL52  
Comment on an article by W. Mantels.

35872 ZEHNGRAFF, P. Growth of a managed pine forest. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 310, 2 p. Jan. 1949. 1.9 F7625T

#### Farm Woodlands

35873 BALLENTINE, L. Y. Forestry in the farm program. *N. C. Dept. Agr. Agr. Rev.* 24(3): 2. Feb. 1, 1949. 2 N81Ag

35874 BERTSCH, M. How much is a windbreak worth? *Prairie Farmer*, Gen. Ed. 121(5): 5, 10. Mar. 5, 1949. 6 P383

35875 BERTSCH, M. Woods for pasture? No! Woods for timber? Yes! *Prairie Farmer*, Gen. Ed. 121(3): 18-19. Feb. 5, 1949. 6 P883  
Farm woodlands, Switzerland County, Indiana.

35876 CHASHKIN, M. I. Planting of shelterbelts. (In Russian.) *Tekhsociety MTS* 9(27): 1-4. 1948. 58.8 T233

U. S. S. R.  
35877 CHASHKIN, M. I. A tractor marker for planting shelterbelts. (In Russian.) *Tekhsociety MTS* 9(27): 5-6. 1948. 58.8 T233

35878 CORLETT, J. B. Problems, progress, and recommendations for improvement in the practice of forestry by small private owners in the West. *West. Forestry and Conserv. Assoc. Proc.* 39: 29-30. 1948. 99.9 W522

35879 DAVIS, J. E. Windbreaks for Illinois farmsteads. *Ill. Nat. Hist. Survey. C.* 38, 33 p. Feb. 1949. 410.8 IL6C

35880 EDLIN, H. L. Farm woodlots. *Timber News* 56: 465. Dec. 1948. 99.81 T482



- 35881 EDLIN, H. L. Small woods. *Timber News* 57: 29. Jan. 1949. 99.81 T482
- 35882 FERRELL, E. K. Shelter belts proved their value. *Dak. Farmer* 69(4): 18-19. Feb. 19, 1949. 6 D14
- 35883 FRITZ, V. The woodlot has its place in Iowa agriculture. *Iowa Agriculturist* 47(7): 17, 21. Feb. 1949. 6 Io9
- 35884 GEVORKIANTZ, S. R., and SCHOLZ, H. F. Timber yields and possible returns from the mixed-oak farmwoods of southwestern Wisconsin. *Wis. Conserv. Dept. P.* 521, 72 p. Feb. 1948. 279.9 W75P
- 35885 GIBSON, H. B. Management of woodlots in the Douglas fir region of British Columbia. *West. Forestry and Conserv. Assoc. Proc.* 39: 27-29. 1948. 99.9 W522
- 35886 HUFNAGL, H. Vom auf und ab der bauernwaldbetreuung. *Österr. Forst- u. Holzwirtschaft.* 3: 262-263. Sept. 3, 1948. 99.81 Os7
- 35887 JACK, R. C. Build snow fences; living, permanent. *Wis. Agr. & Farmer* 76(2): 44. Jan. 15, 1949. 6 W751
- 35888 JOHNS, H. Profit with black locust. *Purdue Agr.* 40(5): 8, 12. Feb. 1949. 7 P97  
Returns from a farm woodlot.
- 35889 KENNAMEY, E. Leaders train farm youth to become educated Paul Bunyans. Alabama FFA and 4-H club members study better woodlot management. *Better Farming Methods* 21(3): 70, 76-77. Mar. 1949. 58.8 B46
- 35890 MCINTYRE, A. C. Woodland management. *Pa. Farmer* 140: 122-123. Feb. 12, 1949. 6 P383
- 35891 NIELAND, L. T. Farm tree planting record set. *Fla. Grower* 57(3): 25. Mar. 1949. 80 F6622
- 35892 PRESTON, J. F. Prairie woodlots. *Land* 7: 546-547. Winter 1948/49. 279.8 L22
- 35893 ROSS, C. R. Trees can put brake on howling winds. *Wash. Farmer* 74: 156. Mar. 3, 1949. 6 R151
- 35894 RUSSENHOLT, E. S. 64 acres farm trees worth \$2290 a year. *Woodland World* 2(2): 6-7. Feb. 1949. 99.8 W853
- 35895 SIZEMORE, W. R. Profit-making depends on woodland management. *Ala. Conserv.* 20(8): 9, 21. Feb. 1949. 279.8 AL1
- 35896 U. S. FOREST SERV. Norris-Doxey farm woodland management projects. *Rev. Washington*, 1949. 13 p. 1.962 C5N79
- 35897 WALL, G. M. Woodlots important in farm economy. *Family Herald & Weekly Star* 80(5): 10. Feb. 2, 1949. 7 F21  
In Nova Scotia.
- 35898 WITZGALL, L. Holzumlage im bauernwald. *Allg. Forstz.* 3: 14-15. Jan. 15-Feb. 1, 1948. 99.8 AL52
- Mensuration**
- 35899 BARNES, G. H. Site classification for even-aged stands of western hemlock. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 50, 7 p. Feb. 4, 1949. 1.9 F7629Fr
- 35900 BEVER, D. N. A study of a stocking survey system and the relationship of stocking percent as determined by this system to number of trees per acre. *Oreg. State Bd. Forestry B.* 1, 40 p. Jan. 1949. 99.9 Or32B
- 35901 BRIEGLEB, P. A. The yield of Douglas-fir in the Pacific Northwest measured by international 1/4-inch kerf log rule. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 46, 4 p. Dec. 16, 1948. 1.9 F7629Fr
- 35902 DIENER, H. Untersuchungen über die sortimentslänge von fichten-tannen-rundholz. *Schweiz. Anst. f. das Forstl. Versuchsw. Mitt.* 25: 395-434. Ref. 1948. 99.9 Sch92  
With an introduction by H. Burger.  
French summary.
- 35903 EVANS, O. Where is it and how much? *Amer. Eagle* 6(2): 4-5. Feb. 1949. 99.82 Am32  
Forest mensuration.
- 35904 GRIFFITH, A. L. The efficiency of enumerations. XV. Sal (*Shorea robusta*) forest in Dehra Dun Division of the United Provinces. *Forest Res. Inst., Dehra Dun. Indian Forest Leaflet* 96, 8 p. 1947. 99.9 F768
- 35905 GROCHOWSKI, J. Remarks about the form and measurement of the stems of the trees. (In Polish.) *Sylvan* 92: 22-32. 1948. 99.8 Sy52  
English summary.
- 35906 JENSEN, C. E. Dot-type scale for measuring tree-crown diameters on aerial photographs. U. S. Forest Serv. Cent. States Forest Expt. Sta. Sta. Note 48, 2 p. Dec. 1948. 1.9 F76252S
- 35907 JOERGENSEN, C. Increment percentage: its usefulness and a simplified method of computation. *Pulp & Paper Mag. Canada* 50(2): 75-78, 80. Feb. 1949. 302.8 P96
- 35908 KALLSTENIUS, L. Experiments with field punching of punch cards in crown forest mensuration. (In Swedish.) *Skogen* 36: 19-20. Jan. 15, 1949. 99.8 Sk51
- 35909 MULLOY, G. A. Calculation of stand density index for mixed and two-aged stands. Canada. Forest Serv. Silv. Leaflet 27, 2 p. Jan. 10, 1949. 99.9 C16S
- 35910 MUNGER, T. T. A tree classification for Douglas fir. *Timberman* 50(5): 76, 79. Mar. 1949. 99.81 T484
- 35911 RECKNAGEL, A. B. Remeasurement of twenty-five year old plots. *J. Forestry* 47: 191. Mar. 1949. 99.8 F768
- 35912 ROGERS, E. J. Estimating tree heights from shadows on vertical aerial photographs. *J. Forestry* 47: 182-191. Mar. 1949. 99.8 F768
- 35913 RUPF, H. Festlegung von probeflächen mittels optischer distanzmessungen. *Allg. Forstz.* 3: 101-102. June 1, 1948. 99.8 AL52
- 35914 SCHUMACHER, F. X., and CHAPMAN, R. A. Sampling methods in forestry and range management. *Duke U. Forestry B.* 7, 222 p. June 1948. 99.9 D88
- 35915 THOMSON, C. C. Reduction of error in line-plot tally. Canada. Forest Serv. Silv. Leaflet 28, 2 p. Jan. 24, 1949. 99.9 C16S
- 35916 VANSELOW, K. Ein neuer baumhöhenmesser. *Allg. Forstz.* 3: 29. Feb. 15, 1948. 99.8 AL52
- 35917 VANSELOW, K. Über die anwendung der ertragstafeln. *Allg. Forstz.* 3: 109-112. June 15, 1948. 99.8 AL52
- FOREST PROTECTION AND DAMAGE**
- References on forest insects are classified with Entomology; references on diseases of trees with Plant Pathology.
- 35918 AMOS, G. L., and DADSWELL, H. E. Siliceous inclusions in wood in relation to marine borer resistance. *Austral. Council Sci. and Indus. Res. J.* 21: 190-196. Ref. Aug. 1948. 514 Au72J
- 35919 BODENSIEK, K. H. Schutz dem wald. *Land Wald u. Gart.* 3: 164. July 1948. 18 L22
- 35920 CLEARWATER TIMBER PROTECTIVE ASSOCIATION. Annual reports, 41-42, 1947-48. Orofino, Idaho, 1948. 52 p. 99.9 C68  
Includes White Pine Blister Rust Control, by H. E. Swanson.
- 35921 DEVINE, J. Here is the exact cause of honeycombing. *Natl. Hardwood Mag.* 23(2): 35, 52. Mar. 1949. 99.81 N22
- 35922 FASSNACHT, D. L., and TRAIN, R. Tree defects common in the upland forests of southern Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Sta. Note 49, 2 p. Dec. 22, 1948. 1.9 F76252S
- 35923 KLIETSCH. Anlage und betrieb von saufängen. *Allg. Forstz.* 3: 4-5. Jan. 1, 1948. 99.8 AL52
- 35924 KLINGELHÖFFER. Zur anlage von saufängen. *Allg. Forstz.* 3: 19-20. Feb. 1, 1948. 99.8 AL52
- 35925 RUDOLF, P. O. Porcupine damage to forest plantations. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 307, 1 p. Jan. 1949. 1.9 F7625T
- 35926 RUDOLF, P. O. Porcupines' preferences in pine plantations. *J. Forestry* 47: 207-209. Mar. 1949. 99.8 F768
- 35927 URSIN, E. Observations on the habits of some Danish mice and shrewmice, especially in regard to their connection with the forest. (In Danish.) *Dansk Skovfor. Tidsskr.* 33: 561-571. Ref. Dec. 1948. 99.8 D23
- 35928 ZABEL, R. A. Variations in the decay resistance of white oak. N. Y. State Col. Forestry, Syracuse U. Tech. P. 68, 53 p. Ref. Dec. 1948. 99.9 N486B



## Fire

35929 ALLEN, R. K. A critical review of forest fire legislation and its enforcement in Nova Scotia. *Pulp & Paper Mag. Canada* 50(3): 242, 244. Feb. 1949. 302.8 P96

35930 BOUSQUET, V. W. A protection program to follow logging: Douglas fir region. *West. Forestry and Conserv. Assoc. Proc.* 39: 57-59. 1948. 99.9 W522

35931 BURGESS, R. H. The role of woods roads in fire fighting in N. S. *Pulp & Paper Mag. Canada* 50(3): 246. Feb. 1949. 302.8 P96

35932 COWAN, C. S. Statistical review of 1948 fire season. *West. Forestry and Conserv. Assoc. Proc.* 39: 56-57. 1948. 99.9 W522

35933 EVERTS, A. B. Propane-Diesel oil flame thrower. *Fire Control Notes* 10: 30-33. Jan. 1949. 1 F766Fi

35934 FLYNN, T. P. Spiral rotor trencher. *Fire Control Notes* 10: 40-42. Jan. 1949. 1 F766Fi  
For fire-line construction.

35935 HALL, J. E. A review of forest fire legislation and its enforcement in New Brunswick. *Pulp & Paper Mag. Canada* 50(3): 240, 242. Feb. 1949. 302.8 P96

35936 HOGELAND, C. Smokechasers' travel time. *Pa. Forests & Waters* 1: 70-72. 1949. 99.8 P38

35937 KIRKPATRICK, R. C. What the logger leaves. *Wis. Conserv. B.* 14(2): 8-10. Feb. 1949. 279.8 W752  
Fire hazards of slash.

35938 MARSHALL, E. H., ROGERS, N. S., and OSBORNE, W. B. Weighing the risk of carrying unburned slash; what factors should be used? *West. Forestry and Conserv. Assoc. Proc.* 39: 68-71. 1948. 99.9 W522

35939 MORRIS, W. G. Summer moisture of forest fire fuels in Oregon and Washington in 1948 and previous years. *U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note* 47, 2 p. Dec. 29, 1948. 1.9 F7629Fr

35940 NEW JERSEY. FOREST FIRE SERV. Forest firewardens, 1949. Trenton, 1949. 43 p. 225 N462

35941 OTTAWA RIVER FOREST PROTECTIVE ASSOCIATION LIMITED. Annual report, 35, 1948. Ottawa, 1948. 31 p. 99.9 Ot8

35942 PARKER, J. W. Back-pack pump carrier. *Fire Control Notes* 10: 36-37. Jan. 1949. 1 F766Fi  
Fire fighting equipment.

35943 PARKER, J. W. Challis fire line and trail plow. *Fire Control Notes* 10: 22-23. Jan. 1949. 1 F766Fi

35944 PARKER, J. W. Little tractors in fire fighting. *Fire Control Notes* 10: 24-26. Jan. 1949. 1 F766Fi

35945 RITTER, E. Driven wells for fire suppression. *Fire Control Notes* 10: 43-46. Jan. 1949. 1 F766Fi

35946 STOCKING, M. 1948 sets new forest fire record. *Conn. Woodlands* 14: 13-14. Jan. 1949. 99.8 C76

35947 TANNEHILL, R. M. Aerial patrol by State agencies in connection with detection of forest fires. (Abs.) *J. Forestry* 47: 214. Mar. 1949. 99.8 F768

35948 WEBB, H. A. The role of woods roads in fire fighting. *Pulp & Paper Mag. Canada* 50(3): 244, 246. Feb. 1949. 302.8 P96

35949 WHITE, H. M. A slip-on tanker for pickup trucks. *Fire Control Notes* 10: 14-16. Jan. 1949. 1 F766Fi

35950 WIESENDANGER, A. K. Keep green programs part in growing a new forest crop. *West. Forestry and Conserv. Assoc. Proc.* 39: 40-41. 1948. 99.9 W522

35951 WILSON, K. O. Cinder hills—a special fire control problem. *Fire Control Notes* 10: 4-6. Jan. 1949. 1 F766Fi

An area in the Coconino National Forest.

35952 WOODWARD, H. R. South Dakota's jeep tanker. *Fire Control Notes* 10: 18-19. Jan. 1949. 1 F766Fi

35953 YOCOM, H. A. Mobile radiotelephone service on the Flat Top Experimental Forest. *Fire Control Notes* 10: 20-21. Jan. 1949. 1 F766Fi

## Meteorological Injuries

35954 KRAUSS, G. A. Zur frage der dürrewirkungen im gefolge des aussergewöhnlich trockenen und heissen sommers 1947. *Allg. Forstz.* 3: 133-136. July 15, 1948. 99.8 AL52

35955 SCHEDL, K. E. Dürreschäden in der Steiermark. *Österr. Forst- u. Holzwirtschaft.* 3: 266. Sept. 3, 1948. 99.81 Os7

## SILVICULTURE

35956 AMBERG, R. Mischkulturen auf der kahlfläche. *Allg. Forstz.* 3: 61-64. Apr. 15, 1948. 99.8 AL52

35957 BAKER, F. S. A revised tolerance table. *J. Forestry* 47: 179-181. Mar. 1949. 99.8 F768

35958 BALDWIN, H. I. New seed-extraction apparatus. *J. Forestry* 47: 199. Mar. 1949. 99.8 F768

35959 BERGER, J. Die aussichten der waldsamen-ernte 1948. *Österr. Forst- u. Holzwirtschaft.* 3: 246-247. Aug. 21, 1948. 99.81 Os7

35960 BORNEBUSCH, C. H. Experiments with Polish larch in Denmark. *Sylvan* 92: 8-21. 1948. 99.8 Sy52

In Polish and English.

35961 BRUCHARD, M. DE. Culture et utilisation du peuplier. *Unité Paysanne* 4(171): 4. Feb. 12, 1949. 14 Un3

35962 BURGER, H. Einfluss der herkunft des samens auf die eigenschaften forstlicher holzgewächse. VI. Die buche. *Schweiz. Anst. f. das Forstl. Versuchsw. Mitt.* 25: 287-326. Ref. 1948. 99.9 Sch92  
French summary.

35963 BURGER, H. Holz, blattmenge und zuwachs. IX. Die föhre. *Schweiz. Znst. f. das Forstl. Versuchsw. Mitt.* 25: 435-493. Ref. 1948. 99.9 Sch92  
French summary.

35964 DIEPOLD, F. Waldbrache. *Allg. Forstz.* 3: 73-77. May 1, 1948. 99.8 AL52

Comment by H. Sippel, p. 103-104, June 1, 1948; comment by K. Vanselow, p. 136-138, July 15, 1948.

35965 FIELDING, J. M. The seeding and natural regeneration of Monterey pine in South Australia. *Austral. Forestry Bur. B.* 29, 62 p. Canberra, 1947. 99.9 Au723

35966 HILF, H. H. Die anerkennung von pappel-pflanzgut. *Allg. Forstz.* 3: 253-256. Dec. 15, 1948. 99.8 AL52

35967 HUBER, E. Tree planting. *N. Y. State Conserv.* 3(4): 10. Feb./Mar. 1949. 279.8 N48

35968 JACOBSON, N. The experimental forest. *West. Forestry and Conserv. Assoc. Proc.* 39: 49-51. 1948. 99.9 W522

35969 JETER, F. H. Carolina farm folks turning to timber. *South. Planter* 110(2): 12, 32-33. Feb. 1949. 6 So89

Planting pine seedlings in North Carolina.

35970 KLÖCK, A. Wiederaufforstung der gross-kahlflächen mit holfe der pappel. *Allg. Forstz.* 3: 12-13. Jan. 15, 1948. 99.8 AL52

35971 KRAUCH, H. Douglas-fir tree makes best growth during mature stage. *J. Forestry* 47: 217-218. Mar. 1949. 99.8 F768

35972 KRAUCH, H. Silvicultural treatment of virgin Douglas-fir stands in the Southwest. *J. Forestry* 47: 200-203. Mar. 1949. 99.8 F768

35973 LIAN, O. Rehabilitation of Norway's forest. (In Swedish.) *Skogen* 36: 26. Jan. 15, 1949. 99.8 Sk51

35974 MARCEL, M. Quelques remarques sur la culture des peupliers. *Agr. Prat.* 113: 24-25. Jan. 1949. 14 J82

35975 MARÉES, H. E. DE. Eine möglichkeit zur fichtenpflanzengewinnung. *Allg. Forstz.* 3: 55-56. Apr. 1, 1948. 99.8 AL52

35976 MARESCALCHI, A. Growing poplars in Italy. (In Italian.) *Ital. Vinic. ed Agr.* 38: 243-244. Nov. 15, 1948. 95.8 It1

35977 MATIAKIN, G. I. Biological and economic importance of the density of forest crops. (In Russian.) *Agrobiologiya* 1948(3): 135-147. May/June 1948. 20 Ag822

35978 MESSER, H. Die waldsamen-ernte. Hannover, Schaper, 1948. 64 p. 99.47 M562

35979 MICKALITIS, A. B., and KUTZ, D. B. Experiments and observations on planting areas 'stripped' for coal in Pennsylvania. *Pa. Forests & Waters* 1: 62-66. 1949. 99.8 P38

35980 MORRISON, V. L. Chemical brush elimination studies. *Forest Log* 18(6): 5. Jan. 1949. 99.8 F7631



- 35981 OW, L. FREIHERR VON. Beispielswirtschaft im tannennischbestand. Allg. Forstz. 3: 78-79. May 1, 1948. 99.8 AL52
- 35982 PEIN. Wider und für die forsteigene pflanzen-nachzucht. Allg. Forstz. 3: 89, 91. May 15, 1948. 99.8 AL52
- 35983 PICCAROLO, G. Industrial poplar culture. (In Italian.) Coltivatore e Gior. Vinic. Ital. 95: 5-6. Jan. 15, 1949. 16 C72
- 35984 ROE, E. I. Dense seed spots produce spindly jack pine seedlings. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 306, 1 p. Jan. 1949. 1.9 F7625T
- 35985 ROHMEDER, E. Die amtliche saatgutprüfung als mittler zwischen samenerzeugung und samenverwendung. Allg. Forstz. 3: 97-101. June 1, 1948. 99.8 AL52
- 35986 ROMNES, R. Commercial thinning of white pine. Wis. Conserv. B. 14(2): 6-8. Feb. 1949. 279.8 W752
- 35987 RUDEN, I. Our forests. (In Norwegian.) Norsk Landbr. 15: 91-92. Mar. 4, 1949. 11 N8122 Chiefly silviculture.
- 35988 SCHMIDT, W. Die forstgenetik in der weltforstwirtschaft. Z. f. Weltforstw. 12: 185-191. Dec. 1948. 99.8 Z35 English and French summaries.
- 35989 SCHREINER, E. J. Creating better trees. Forest Leaves 34 i.e. 39: 3-4. Jan./Feb. 1949. 99.8 F763
- 35990 SILVA, P. D. DA. Reforestation. (In Portuguese.) Rio Grande do Sul. Sec. da Agr. Indús. e Com. Inform. Rural 1(5/6): 5-6. (Cont.) May 1948. 9.2 R4741
- 35991 SINDING, A. Forest tree planting. (In Swedish.) Skogbrukeren 24: 19. Feb. 1, 1949. 99.8 Sk54
- 35992 SINGH, S. Regeneration of the fir forests of Pir Pannal, Kashmir. Indian Forester 74: 147-152. Apr. 1948. 99.8 In2
- 35993 SÖKJER-PETERSEN, E. Spruce or hardwood trees as undergrowth in oak forest. (In Swedish.) Skogen 36: 21. Jan. 15, 1949. 99.8 Sk51
- 35994 STROHMEYER, G. Forstliche züchtung. Allg. Forstz. 3: 30. Feb. 15, 1948. 99.8 AL52
- 35995 TECHNICAL problems of growing the new forest. West. Forestry and Conserv. Assoc. Proc. 39: 30-36. 1948. 99.9 W522
- The ponderosa pine region, by W. H. Reed; The western white pine region, by R. W. Billings; The redwood forest, by L. D. Wambold; The Douglas fir region, by A. P. MacBean.
- 35996 THIERRICHTER, K. Ein vegetationskundlicher kurs. Österr. Forst- u. Holzwirtsch. 3: 233-234. Aug. 7, 1948. 99.81 Os7
- 35997 URQUHART, B. Restocking forests in the natural way. Country Life [London] 105: 314-315. Feb. 11, 1949. 80 C83
- 35998 VAUGHAN, R. B. Cultura do Eucalipto [Eucalyptus culture]. Vamos para o Campo! 40, 18 p. 1948. 9.2 V25
- 35999 WARRACK, G. Treatment of red alder in the coastal region of British Columbia. Brit. Columbia. Forest Serv. Res. Notes 14, 7 p. Victoria, 1949. 99.9 B771
- 36000 WARRACK, G. C. Thinning as a forest health measure. West. Forestry and Conserv. Assoc. Proc. 39: 63-64. 1948. 99.9 W522
- 36001 WECK. Waldgefügetypen. Allg. Forstz. 3: 85-89. May 15, 1948. 99.8 AL52
- 36002 WEDDELL, D. J. Silvicultural practices in the pine hardwood types of the Piedmont. South. Lumberman 178(2230): 40, 42. Mar. 1, 1949. 99.81 So82
- 36003 WETTSTEIN, W. Rassenforschung, variation und vererbung bei bäumen. Allg. Forst- u. Holzwirtschaft. Ztg. 59: 187-188. Dec. 1948. 99.8 AL53
- 36004 WETTSTEIN, W. Studien auf dem gebiete der forstpflanzenzüchtung. Österr. Forst- u. Holzwirtsch. 3: 218-219. July 21, 1948. 99.81 Os7
- 36005 WIBLE, R. C. Scrub oak needs fire to thrive. Forest Warden News 23: 1-2. Jan. 1949. 99.8 F7643
- 36006 WOODS, J. A., JR. From Tillamook burn to Tillamook ex-burn. Wash. U. Forest Club Quart. 22: 3-7. 1948/49. 99.9 W275Q
- 36007 WRIGHT, J. W. Producing elm seeds on cut branches. J. Forestry 47: 210-214. Mar. 1949. 99.8 F768

## LUMBERING

- 36008 POPOV, I. S. Stakhanovite committees in lumbering. (In Russian.) Lesn. Promysh. 1948(5): 13. May 1948. 99.82 L56 Improved work management.
- 36009 POPOV, V. A. Results and immediate prospects. (In Russian.) Lesn. Promysh. 1948(5): 1-3. May 1948. 99.82 L56 Lumbering in U. S. S. R.

## Equipment

- 36010 BROOKS, R. D. Circular saws. Wood [Chicago] 4: 20, 48, 50. Jan. 1949. 99.82 W859
- 36011 CRESTIN, F. Transport rectiligne par câbles de lourdes charges. Bois et Scieries 55: 10-13, 39-41. Jan. 6-13, 1949. 99.81 B632
- 36012 HYLER, J. E. Wood-working saw blades. 1. South. Lumberman 178(2229): 85, 88, 90, 92, 94. Feb. 15, 1949. 99.81 So82
- 36013 KISHCHENKO, T. I. An attachment for loading logs on sleighs. (In Russian.) Lesn. Promysh. 1948(5): 11. May 1948. 99.82 L56
- 36014 KUZNETSOV, D. V., and KOZHANOV, D. I. New sectional conveyor for reloading short length lumber. (In Russian.) Lesn. Promysh. 1948(5): 15-18. May 1948. 99.82 L56
- 36015 LEHMANN, A. Das verhältnis zwischen vorschub und überhand. Noch ein beitrag zum thema "sägenüberhang." Holz-Zentbl. 74: 621. Dec. 14, 1948. 99.81 H742
- 36016 MCCOLL, B. J. The Magor side discharge pulpwood car. Pulp & Paper Mag. Canada 50(3): 278. Feb. 1949. 302.8 P96
- 36017 MANN, C. F. A. Tree farming with diesels. Diesel Prog. 15(2): 44-50. Feb. 1949. 291.8 D56
- 36018 MILLER, R. H. P., and FOBES, F. W. End loading of self-loading trucks. Cross Tie B. 30(2): 20, 22. Feb. 1949. 99.82 C87
- 36019 MONTGRAIN, C. Le fendeur à bois. Foyer Rur. [Montreal] 8(5): 6. Feb. 1949. 7 F83
- 36020 NEKRASOV, E. M. Mechanization of the production of pegged and bolted booms. (In Russian.) Lesn. Promysh. 1948(5): 18-19. May 1948. 99.82 L56 For lumber floating.
- 36021 NORMAND, J. La 24<sup>e</sup> foire de Marseille; le matériel forestier et le matériel roulant agricole en bois. Bois et Scieries 54: 937-939. Dec. 2, 1948. 99.81 B632
- 36022 PATSIORA, P. P. Homemade electric saws. (In Russian.) Lesn. Promysh. 1948(5): 4-10. May 1948. 99.82 L56 U. S. S. R.
- 36023 SANDWELL, P. R., GOU MENIOUK, G., and STEWART, R. M. Hydraulic barking on the Pacific Coast. Timber News 56: 450, 453, 474. (To be cont.) Dec. 1948. 99.81 T482
- 36024 SPINNER, W. Der kran im sägewerk. Holz-Zentbl. 74: 647, 651. Dec. 24, 1948. 99.81 H742
- 36025 TURNER, H. E. The use of electric chain saws in a tree. Trees [Cleveland] 9(2): 8. Jan./Feb. 1949. 99.8 W52

## Logging

- 36026 COX, H. A. Harvesting the crop. Wood [London] 14(2): 44-45. Feb. 1949. 99.82 W855
- 36027 HEACOX, E. F. Salvage logging as a silvicultural measure. West. Forestry and Conserv. Assoc. Proc. 39: 60-61. 1948. 99.9 W522
- 36028 HOOKER, L. W. Proposal for the establishment of Lake States Logging Laboratory at Michigan College of Mining and Technology. Timber Prod. Assoc. B. 69: 10-11, 25-26. Dec. 1948. 99.9 T482B
- 36029 LECLÈRE, A. Toujours à propos des délais d'abatage et de vidange des coupes. Bois 65, i. e. 66(24, i. e. 1): 1, 3; (2): 1, 3. (Cont.) Jan. 10/15-25/30, 1949. 99.82 B632
- 36030 SILVERSIDES, C. R. Bearing capacity of ice. Pulp & Paper Mag. Canada 50(3): 248. Feb. 1949. 302.8 P96 For logging.
- 36031 STIER, R. E. Recovery of seed trees and windfalls. West. Forestry and Conserv. Assoc. Proc. 39: 61-62. 1948. 99.9 W522



36032 TAYLOR, D. Problems in salvaging intermediate cutting. *Timberman* 50(5): 68, 70. Mar. 1949. 99.81 T484

### Lumber Industry

36033 BARTH, J. Vue sur le marché du noyer dans le Sud-Ouest. *Bois et Scieries* 55: 69. Jan. 20, 1949. 99.81 B632

36034 BERCKES, H. C. The emphasis is on quality. *Com. B.* 90(4791): 7. Dec. 11, 1948. 286.8 C736 Lumber.

36035 BLÜMEL, F. Weiteres über mangel beim holzexport. *Osterr. Forst- u. Holzwirtschaft*. 3: 216. July 21, 1948. 99.81 Os7

36036 BOWEN, J. W. Some problems appertaining to the lumber industry in South Africa. *So. African Timber Trades' J.* 3(3): 13-15. Dec. 1948. 99.8 So82

36037 BRODERICK, R. E. Northeastern softwood and hardwood production shows better quality. *Com. B.* 90(4791): 1, 7. Dec. 11, 1948. 286.8 C736

36038 BROWN, N. C. Utilization of lumber and forest products. *Timber Canada* 9(7): 35-37. Mar. 1949. 99.81 T487

36039 BURGER, G. Der österreichische holzexport im allgemeinen und seine derzeitigen möglichkeiten. *Osterr. Forst- u. Holzwirtschaft*. 3: 257-258. Sept. 3, 1948. 99.81 Os7

36040 BUSH, W. D. Selling black walnut timber. *U. S. D. A. Farmers' B.* 1459, rev., 19 p. July 1948. 1 Ag84F

36041 DOSKER, C. D. Utilization of low grade hardwood lumber. *South. Lumberman* 178(2230): 59-60, 62. Mar. 1, 1949. 99.81 So82

36042 FLETCHER, M. I. Balsa industry of Ecuador. *Econ. Geog.* 25(1): 47-54. Jan. 1949. 278.8 Ec7

36043 FREEMAN, R. Official British report outlines Canadian lumber import needs. *Timber Canada* 9(7): 38-40, 78-80. Mar. 1949. 99.81 T487

36044 GULLIGHSEN, H. Les industries finlandaises du bois après la guerre. *Bois et Scieries* 55: 95-96. Jan. 27, 1949. 99.81 B632

36045 GYAW, U. O. Burma teak lease. *Burma Mkt. Rev.* 3: 3, 67, 69-71. Jan. 4, 1949. 286.8 B92

36046 HEEDE, K. Holznot und intensivierung der holzwirtschaft. *Holz-Zentbl.* 75: 1-2. Jan. 5, 1949. 99.81 H742

36047 HEMPEL, K. Aufwertung des holzes. *Allg. Forstz.* 3: 1-4. Jan. 1, 1948. 99.8 AL52

36048 HUCKENPAHLER, B. J. Which is best? A study of loblolly vs. shortleaf. *South. Lumber J.* 53(3): 19, 108. Mar. 10, 1949. 99.81 So8

36049 KRZYSIK, F. Rationalisation of technical production methods in lumber industry. (In Polish.) *Sylvan* 92: 41-59. 1948. 99.8 Sy52 English summary.

36050 LANGDELL, M. R. How to get better prices for eastern white pine by making better lumber. *Com. B.* 90(4791): 9-10. Dec. 11, 1948. 286.8 C736

36051 LECLÈRE, A. La notion de vice apparent et de vice caché et les ventes de coupes. *Bois* 65(19): 1, 3; (23): 1, 3. (Cont.) Oct. 25, Dec. 25, 1948. 99.82 B632

36052 LEFKOF, E. A. Markets and marketing. *Forest Leaves* 34 i.e. 39: 7, 14. Jan./Feb. 1949. 99.8 F763

36053 LIGHTSEY, O. Controlling quality of lumber manufacture. *South. Lumberman* 178(2229): 60, 62. Feb. 15, 1949. 99.81 So82

36054 NELSON, L. A. How the grader looks at seasoned lumber. *Timberman* 50(5): 57-58. Mar. 1949. 99.81 T484

36055 O'BRIEN, W. H. The present market outlook for southern pine lumber and dimension. *South. Lumberman* 178(2229): 64-65. Feb. 15, 1949. 99.81 So82

36056 OGDEN, W. H., and OLSON, E. F. Lumber for industry, revised; 1946 lumber production by species for counties in the Tennessee Valley and surrounding region. *U. S. Tenn. Val. Authority. Forestry B.* 9, 28 p. Aug. 1948. 173.2 T25 Fo

36057 PAUL, B. H., and SWEET, C. V. Quality control in manufacture of lumber from second growth. *South. Lumberman* 178(2230): 48, 50, 52. Mar. 1, 1949. 99.81 So82

36058 PRICE, A. W., and HOYLE, R. J. Hardwood lumber inspection. *N. Y. State Col. Forestry, Syracuse U., Tech. P.* 70, 48 p. Oct. 1948. 99.9 N486B

36059 RAZOUS, P. Le commerce des bois en France et dans les pays de l'Union Française; commerce du bois d'Indochine. *Bois et Scieries* 55: 37-39, 63-65. (Cont.) Jan. 13-20, 1949. 99.81 B632

36060 RAZOUS, P. La comptabilité de rendement dans les exploitations forestières, les scieries et les industries du bois. *Paris, Dunod, 1948.* 112 p. 99.76 R21C

36061 TIMBER DEVELOPMENT ASSOCIATION LIMITED. Fifteenth annual report, Jan.-Dec. 1948. *London, 1949.* 76 p. 99.9 T48A

36062 WILCKENS, H. A. Der holzbedarf für den wiederaufbau. *Holz-Zentbl.* 74: 655-656. Dec. 28, 1948. 99.81 H742

### Sawmills

36063 BELL, G. E. The effect of log diameter on lumber recovery and on lumber manufacture in eastern Canada. Preliminary report, type "B" sawmills. *Canada. Forest Serv. Mimeog.* 0-136, 13 p. 1948. 99.9 C16B

36064 CANADA. BUR. OF STATISTICS. CENSUS OF INDUSTRY. FOREST PRODUCTS STATISTICS. List of Canadian sawmills. *Ottawa, 1948.* 83 p. 253 C3321

36065 DAVIS, E. M. Sawmill machinery guide. *Wood [Chicago]* 4: 33-34. Jan. 1949. 99.82 W859

36066 FOBES, E. W. Slab pick-up racks. *South. Lumberman* 178(2229): 96. Feb. 15, 1949. 99.81 So82

36067 LISTER, S. Introduction to sawmilling. *Timber Devlpmt. Assoc. Timber Inform.* 36, 5 p. n. d. 99.9 T48Tr

36068 MANKE. Plauderei aus der praxis fortschrittlicher sägeindustrie. *Holz-Zentbl.* 75: 13-14. (To be cont.) Jan. 11, 1949. 99.81 H742

36069 NEW HAMPSHIRE. FORESTRY AND RECREATION COMMISSION. Directory of sawmills and other primary wood-using industries of New Hampshire. 1948. 25 p. 99.9 N45W

36070 RITCHIE, J. The activities of the Bureau of Standards in relation to the sawmilling industry. *So. African Timber Trades' J.* 3(3): 5-7, 15. Dec. 1948. 99.8 So82

36071 ZEHENDER, F. Ein akkordbeispiel aus der praxis; beitrage zum thema "Leistungsvergleich im Sägewerksbetrieb." *Holz-Zentbl.* 74: 665-666. Dec. 31, 1948. 99.81 H742

### WOOD TECHNOLOGY

36072 BROWN, H. P. Textbook of wood technology. *New York, McGraw-Hill, 1949.* v. 1, 652 p. 99.79 B81T Volume 1 is a revision of his *Commercial Timbers of the United States* (99.31 B81C).

36073 NARAYANAMURTI, D., and GEORGE, J. Preliminary studies on improved wood. IV. *Forest Res. Inst., Dehra Dun. Indian Forest Leaflet* 98, 11 p. 1948. 99.9 F768

36074 PETITPAS, J. Technologie comparée des industries du bois. *Paris, Dunod, 1948.* 163 p. 99.77 P442

36075 POLJAK, A. Holzaufschluss mit peressigsäure. *Angew. Chem. Ausg. A.* 60: 45-46. Feb. 1948. 384 Z33

36076 TOVSTOLES, M. D. What kind of research is carried on at the Tsentral'nyi Nauchno-Issledovatel'skii Institut Mekhanicheskoi Obrabotki Drevesiny. (In Russian.) *Lesn. Promysh.* 1948(5): 20-21. May 1948. 99.82 L56

Wood.  
36077 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on chemistry of wood and derived products. *U. S. Forest Serv. Forest Prod. Lab. Mimeog.* R238, 43 p. Nov. 1948. 1.9 F761R

36078 WACEK, A. Grundlagenforschung und zweckforschung auf dem gebiete der holzchemie. *Osterr. Forst- u. Holzwirtschaft*. 3: 258-260. Sept. 3, 1948. 99.81 Os7

### Preservative Treatment

36079 BLEW, J. O., JR. Developments in wood preservation. *Chem. Indus.* 64: 218-223. Ref. Feb. 1949. 381 C426



- 36080 EDWARDS, H. H. Water-repellent preservatives work on wood. Architect. Rec. 105(2): 131-134. Feb. 1949. 296.8 Ar23
- 36081 HARKOM, J. F. Preservative treatment of poles by end-boring. Canada. Forest Serv. Mimeog. 131, 4 p. Nov. 1947. 99.9 C16B
- 36082 HARKOM, J. F., COLLEARY, M. J., and SED-ZIAK, H. P. Results of the examination of seven ground-line treatments and one butt treatment on eastern white cedar pole stubs after six years' service. n. p., Amer. Wood-Preservers' Assoc., 1948. 14 p. 300 H22R
- 36083 KULP, D. A. Treating fence posts with pentachlorophenol-fuel oil solutions, using the cold-soaking method. Miss. Agr. Expt. Sta. C. 141, 11 p. May 1948. 100 M69
- 36084 NARAYANAMURTI, D., PURUSHOTHAM, A., and PANDE, J. N. Preservative treatment of bamboos. Indian Forest B. New Ser., Comp. Wood & Wood Preserv. 137, 14 p. 1947. 99.9 In22B
- 36085 WALTERS, C. S. Preserve your posts with penta. Ill. Agr. Col. Ext. C. 636, 16 p. Feb. 1949. 275.29 IL62C  
Pentachlorophenol.

#### Properties and Structure

- 36086 BUTTNER, E. E. The density of timbers. III-IV. So. African Timber Trades' J. 2(12): 15-16; 3(1): 9, 20. Sept.-Oct. 1948. 99.8 So82
- 36087 GAUMANN, E. Der einfluss der meereshöhe auf die dauerhaftigkeit des lärchenholzes. Schweiz. Anst. f. das Forstl. Versuchsw. Mitt. 25: 327-393. Ref. 1948. 99.9 Sch92  
French summary.
- 36088 JANE, F. W. Histology of wood. II-IV. Timber News 56: 454-456, 468; 57: 19-21, 62-63, 68. Dec. 1948-Jan. 1949. 99.81 T482
- 36089 KURTH, E. F. The chemical composition of barks. Northeast. Wood Util. Council. B. 25: 19-42. Ref. Jan. 1949. 99.9 N819  
Discussion by A. Pollak, p. 42-44.
- 36090 LAMB, G. N. Foreign woods: origin, use, properties and nomenclature. Wood Prod. 54(2): 24, 26; (3): 26. (Cont.) Feb.-Mar. 1949. 99.82 W856
- 36091 LIANG, H., CHOW, K. Y., and AU, C. N. Properties of a "living-fossil" wood (*Metasequoia glyptostroboides*, Hu et Cheng). Nanking. Natl. Cent. U. Forestry Inst. Res. Notes. Wood Technol. 1, 4 p. Feb. 20, 1948. 99.9 N15R
- 36092 NEUBAUER, L. W. Redwood boards; durability studied in 12-year test of decay-resistance and weathering. Calif. Agr. [Calif. Sta.] 3: 15, 16. Jan. 1949. 100 C12Cag
- 36093 OSAWA, M., and HIRAI, S. Some informations on the heart-wood-colouration as a stem-morphology (chiefly on the Japanese larch). (In Japanese.) Soc. Agr. and Forestry, Sapporo. J. 37(4): 15-29. Ref. July 1948. 22.5 So1  
English summary.
- 36094 PEW, J. C. Membranous substances in common heartwoods. J. Forestry 47: 106-199. Mar. 1949. 99.8 F768
- 36095 U. S. HOUSING AND HOME FINANCE AGENCY. Properties of experimental wood-base house flooring materials, including a tentative test procedure for flooring. U. S. Housing and Home Finance Agency. Tech. Paper 11, 18 p. Nov. 1948. 177.3 T22

#### Seasoning, Conditioning, and Finishing

- 36096 DICKINSON, F. E. How dry is "dry"? Just what is "seasoned" lumber? South. Lumber J. 53(3): 30, 34. Mar. 10, 1949. 99.81 So8
- 36097 DICKINSON, T. A. Alloy spray finishing of wood products. Wood Working Digest 51(2): 114, 116, 118, 120, 122, 124. Feb. 1949. 99.82 W87
- 36098 LOUGHBOROUGH, W. K. Chemical seasoning of southern species. South. Lumberman 178(2231): 40, 42, 44, 46, 48, 50, 52, 54. Mar. 15, 1949. 99.81 So82
- 36099 MATHIEU, H. Le séchage naturel. Rev. du Bois 4: 18-21. Jan. 1949. 99.82 R32
- 36100 PRATT, G. H., and DEAN, A. R. Radio-frequency drying of timber. Wood [London] 14(2): 46-50. Feb. 1949. 99.82 W855
- 36101 SIMMONS, F. C. The Keystone Kiln Drying Association. Forest Leaves 34 i.e. 39: 13-14. Jan./Feb. 1949. 99.8 F763

- 36102 SWAIN, L. C., and BEGGS, A. F. Interior finishes and how to develop them. N. H. Agr. Col. Ext. C. 291, 23 p. Jan. 1949. 275.29 N45C
- 36103 TIEMANN, H. D. The kiln-drying of lumber. 2-3. South. Lumberman 178(2229): 80, 82, 84; (2231): 60, 64, 66. Feb. 15, Mar. 15, 1949. 99.81 So82
- 36104 WAMPLER, R. H. Non-grain-raising stains. Wood [Chicago] 4: 21, 42, 45. Jan. 1949. 99.82 W859
- 36105 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Selecting, seasoning, using home grown lumber. Wis. Agr. Col. Ext. Stencil C. 276, rev., 16 p. Dec. 1948. 275.29 W75B

#### FOREST PRODUCTS

- 36106 ARIES, R. S. The use of bark for paper deinking. Northeast. Wood Util. Council. B. 25: 119-124. Jan. 1949. 99.9 N819
- 36107 ARIES, R. S. The utilization of wood waste. South. Lumberman 178(2229): 72, 74, 76. Feb. 15, 1949. 99.81 So82
- 36108 ART, R. C. Tie ways of the nation. Wood [Chicago] 4: 30-32, 40. Jan. 1949. 99.82 W859
- 36109 CANADA. FOREST SERV. The Forest Products Laboratories of Canada. Canada. Forest Serv. Mimeog. 139, 6 p. 1948. 99.9 C16B
- 36110 CORNWALL, G. F. Douglas fir cross tie situation. Cross Tie B. 30(2): 16, 18. Feb. 1949. 99.82 C87
- 36111 THE DRYING of bark. Northeast. Wood Util. Council. B. 25: 129-133. Jan. 1949. 99.9 N819
- 36112 EHRFELD, J. R. VON. Die lage der holz-verarbeitenden industrie in Oesterreich. Osterr. Forst- u. Holzwirtsch. 3: 289-290. Oct. 7, 1948. 99.81 Os7
- 36113 GEVORKIANTZ, S. R. For more and better oak ties. Lake States Timber Digest 3(9): 3-4. Feb. 10, 1949. 99.81 L14
- 36114 GEVORKIANTZ, S. R. Proportion of various rough products in second-growth stands. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 308, 1 p. Jan. 1949. 1.9 F7625T
- 36115 GLESINGER, E. The coming age of wood. New York, Simon and Schuster, 1949. 279 p. 99.75 G48
- 36116 HARWOOD, V. D., and PURVES, C. B. Research on bark at McGill. Northeast. Wood Util. Council. B. 25: 45-58. Ref. Jan. 1949. 99.9 N819  
Discussion, p. 58-59.
- 36117 HASSELSTROM, T. On pine tree resenes. Paper Trade J. 128(7): 17-21. Ref. Feb. 17, 1949. 302.8 P196
- 36118 HODGINS, H. J. Wood procurement and utilization. Brit. Columbia Lumberman 33(2): 57-58, 108, 110, 112. Feb. 1949. 99.81 B77
- 36119 HÖRICHT, W. Waldsträucher und weichhölzer; ihre waldbauliche und wirtschaftliche bedeutung. Land Wald u. Gart. 3: 163. July 1948. 18 L22
- 36120 HORN, A. G. Minnesota leads Lake States in 1947 pole production. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 309, 1 p. Jan. 1949. 1.9 F7625T
- 36121 HYLER, J. E. The turning question. Wood [Chicago] 4: 26, 50, 52-53. Jan. 1949. 99.82 W859
- 36122 HYLER, J. E. Wood-working saw blades. II. South. Lumberman 178(2231): 70, 72. Mar. 15, 1949. 99.81 So82
- 36123 KANZLER, R. Forstliche verkaufs- und zahlungsbedingungen. Holz-Zentbl. 74: 665. Dec. 31, 1948. 99.81 H742
- 36124 LEVIN, O. R. Increase in utilization at Shelton. West. Forestry and Conserv. Assoc. Proc. 39: 52-54. 1948. 99.9 W522
- 36125 MACE, R. F. Hop hornbeam for handles. N. H. Forestry and Recreation Dept. Caroline A. Fox Res and Demon. Forest. Fox Forest Notes 36, 1 p. July 1948. 99.9 N454F
- 36126 MAXWELL, A. Marimba makers get eighty-eight notes from a single log. Wood [Chicago] 4: 18-19. Jan. 1949. 99.82 W859
- 36127 MORGAN, H. W. Masonite—a romance of industry. Austral. Timber J. 14: 650-651, 665-666. Nov. 1948. 99.81 Au7
- 36128 NEW ZEALAND. DEPT. OF LANDS AND SURVEY. Kauri-gum industry (report on the), 1947/48. 1948. 1 p. 309.9 N48



36129 NORTHEASTERN WOOD UTILIZATION COUNCIL, INC. The chemistry and utilization of bark. Northeast. Wood Util. Council. B. 25, 133 p. Jan. 1949. 99.9 N819

36130 PERFALL, F. FREIHERR VON. Die grubenholzumlage 1948/49 und die künftige beschaffung des grubenholzes. Allg. Forstz. 3: 258-259. Dec. 15, 1948. 99.8 AL52

36131 PROCTOR, P. B., and BAKER, W. J. Definition of wood waste. Timberman 50(5): 60, 62, 116. Mar. 1949. 99.81 T484

36132 PROCTOR, P. B. New developments in wood utilization. West. Forestry and Conserv. Assoc. Proc. 39: 51-52. 1948. 99.9 W522

36133 RETTIE, J. C., and SIMMONS, F. C. Estimates of bark supply in the Northeast. Northeast. Wood Util. Council. B. 25: 7-18. Jan. 1949. 99.9 N819

36134 RETTIE, J. C. Where is the bark? Forest Leaves 34 i.e. 39: 5-6. Jan./Feb. 1949. 99.8 F763

36135 SAECHTLING. Wohin mit holzspänen und abfällen? Holz-Zentbl. 74: 645. Dec. 24, 1948. 99.81 H742

36136 SCHWARTZ, H. Structural boards from eastern cedar and western red cedar barks. Northeast. Wood Util. Council. B. 25: 79-84. Jan. 1949. 99.9 N819 Discussion, p. 84-86.

36137 SPROULL, R. C. Research for southern forest products. South. Lumberman 178(2229): 50, 52, 54, 56. Feb. 15, 1949. 99.81 So82

36138 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Holly auction, by J. D. Tonkin and D. Lerch. Washington? 1948. 2 p. 1.914 R2T61 Holly Christmas wreaths.

36139 U. S. FOREST SERV. Working plan for a survey of wood used in manufacture. Washington, 1949. 9 p. 1.962 A2Su72

36140 UTERHARCK, F. Tonholz aus den alpen. Holz-Zentbl. 74: 616. Dec. 14, 1948. 99.81 H742

36141 VAN BECKUM, W. G. The development of bark products by Weyerhaeuser. Northeast. Wood Util. Council. B. 25: 61-70. Jan. 1949. 99.9 N819 Discussion, p. 70-77.

36142 WHITLOCK, R. The woodworker's craft. Field 193: 72. Jan. 15, 1949. 10 F45

#### Building Construction

36143 COOPER, K. L. Building - frames. Timbers and sizes. Austral. Council Sci. & Indus. Res., Pam. 112, 20 p. Melbourne, 1948. 514 Au72P

36144 FORBES, F. P. The fabrication of structural members from timber. Wood Working Digest 51(2): 163-164, 166, 168, 170. Feb. 1949. 99.82 W87

36145 GRONDAL, B. L., and ERICKSON, H. D. Wall-board from wood. West Coast Lumberman 76(2): 130-131. Feb. 1949. 99.81 W52

36146 KETCHUM, V. Design of glued laminated structural members. Timber News 57: 52, 55-56. Feb. 1949. 99.81 T482

36147 RUDNICKI, J. M., and KENNEDY, D. E. Trip-L-grip framing anchors. Canada. Forest Serv. Mimeog. 138, 6 p. Sept. 1948. 99.9 C16B

#### Charcoal

36148 BUGGE, O. Tar production. (In Swedish.) Skogbrukeren 24: 20. Feb. 1, 1949. 99.8 Sk54

36149 RISI, J. La distillation destructive du bois. Forêt Québécoise 14: 82-83. Feb. 1949. 99.8 F79

#### Containers

36150 DEAN, B. Fibre shipping containers; kraft from sawmill refuse. Amer. Boxmaker 38(3): 21-22. Mar. 1949. 99.82 Am3

#### Cork

36151 CIERCO, L. The French market. (In Portuguese.) Portugal. Junta Nac. da Cortiça. B. 11(121): 19-20. Nov. 1948. 309.9 J96 Summary in English, p. VIII-IX; text in French, p. 3-4, sup.

36152 GUILLEMONAT, A. Le liège, matière première d'une industrie chimique. Rev. du Bois 4: 4-6. Jan. 1949. 99.82 R32

36153 NORMAND, J. Les forêts et le liège en Afrique du Nord. Bois et Scieries 55: 65-68. Jan. 20, 1949. 99.81 B632

#### Furniture

36154 MANSELL, R. Furniture finishing processes. III-IV. Furniture Mfr. 64(2): 38-41; (3): 20, 22, 57. Feb.-Mar. 1949. 300.8 F982

#### Naval Stores

36155 PHILIPPIS, A. DE. New equipment for gum extraction. (In Italian.) Ital. Forest. e Mont. 3: 376-378. Nov./Dec. 1948. 99.8 It12

36156 SCHOPMEYER, C. S. A method for determining the proper time to start acid treatment of turpentine trees. Naval Stores Rev. 58(48): 16-17, 28. Feb. 26, 1949. 99.81 N22

#### Pulp and Paper

36157 BASER, C. J. Pulpwood producers chart course for a productive future. South. Lumberman 178 (2231): 38. Mar. 15, 1949. 99.81 So82

36158 BHARGAVA, M. P., and SINGH, C. Interim report on the pulping qualities of crushed and uncrushed bamboo chips. Paper Trade J. 128(8): 63-69. Feb. 24, 1949. 302.8 P196

36159 BILLINGER, R. D. Early Pennsylvania paper making. J. Chem. Ed. 26: 154-158, 162. Mar. 1949. 381 J826

36160 COHEN, W. E. Pulp and paper from Australian eucalypts. Unasylva 2: 309-315. Nov./Dec. 1948. 99.8 Un1

36161 GEHRING, C. I. Grinding different kinds of groundwood with three pocket grinders. Pulp & Paper Mag. Canada 50(2): 64-67. Feb. 1949. 302.8 P96

36162 KORNGUT, J. Hydrolysis of wood pulp. (In Polish.) Przemysł Chem. 27: 551-554. Nov. 1948. 385 P952

36163 MEIDELL, A. Chief problems of the pulp and paper industry and a survey of research activities. (In Norwegian.) Norsk Skogindustri. 2: 339-344. Dec. 1948. 99.82 N81

36164 PHILLIPS' paper trade directory of the world, 1949. London, 1949. 707 p. 302 P54

36165 SHACKLETON, P. Chemical barking to aid pulp operations. Woodland World 2: 8. Jan. 1949. 99.8 W853

36166 SITCH, D. A. The isolation and fractionation of white birch holo-cellulose. Pulp & Paper Mag. Canada 50(3): 234-236, 290, 292. Ref. Feb. 1949. 302.8 P96

36167 STEINLIN, R., and KLEMM, K. H. Der gegenwärtige stand der siebanalyse und der produktionsüberwachung in holzschleifereien. Papier 2: 131-138. Apr. 1948. 302.8 P1934

36168 STOVER, W. S., and TOFTE, A. L. Pulpwood production in Southern Forest Survey territory, 1947. U. S. Forest Serv. South. Forest Expt. Sta. Forest Survey Release 58, 16 p. Dec. 1948. 1.9 F7624F

#### Tanning Material

36169 GRASSMANN, W., and HUBER, B. Helmische gerbstoffversorgung. II. Allg. Forstz. 3: 138-139. July 15, 1948. 99.8 AL52 Germany.

36170 HILBERT, F. L. The technology of tanning: wattle bark. Leather & Shoes 116(24): 29-33. Dec. 11, 1948. 303.8 H53

36171 KOLAR, J. Study of the production of Rhus typhina in Yugoslavia. (In Czech.) Tech. Hlídka Koželužská 24: 6-8. Jan. 15, 1949. 303.8 T22 English summary. For tanning material.

36172 LOLLAR, R. M., and O'FLAHERTY, F. The domestic vegetable tannin situation. Northeast. Wood Util. Council. B. 25: 87-98. Ref. Jan. 1949. 99.9 N819

36173 ROGERS, J. S. Tannin from northeastern barks. Northeast. Wood Util. Council. B. 25: 99-104. Ref. Jan. 1949. 99.9 N819 Discussion, p. 104-108.

#### Veneers, Plywood, and Adhesives

36174 BALDWIN, C. American methods speed Chilean plywood output. Wood [Chicago] 4: 24-25. Jan. 1949. 99.82 W859



36175 BENTZ, T. From birds eye [maple] production to world wide conversion. Wood Prod. 54(3): 16-18. Mar. 1949. 99.82 W856

Veneer.

36176 BERGIN, E. G. Effect of wood moisture content on gluing. Canada. Forest Serv. Mimeog. 137, 8 p. 1948. 99.9 C16B

36177 BERGIN, E. G. Importance of control of moisture in wood to be glued with room-temperature setting urea-formaldehyde resins. Canada. Forest Serv. Mimeog. 134, 9 p. 1948. 99.9 C16B

36178 BERTHELSEN, V. Modern gluing in the wood industry. Wood Working Digest 51(3): 155-156, 158-168, 170. Mar. 1949. 99.82 W87

36179 BOCK, A. P. How much does it cost to use radio frequency heating? Wood Working Digest 51(3): 119-120, 122, 124, 126, 128, 130, 132, 134. Mar. 1949. 99.82 W87

36180 CHEATHAM, O. R. Plywood in Forty-Nine. West Coast Lumberman 76(2): 61-62. Feb. 1949. 99.81 W52

36181 DALLAS, J. E. The application of infra-red heating to the drying of veneers in the plywood industry. West Coast Lumberman 76(2): 92, 95. (To be cont.) Feb. 1949. 99.81 W52

36182 DELISLE, R. L'industrie du feuillet du bois. Forêt Québécoise 14: 118-120, 123-124. Feb. 1949. 99.8 F79

36183 DIETTERICH, C. W. The progressive southern plywood industry. West Coast Lumberman 76(2): 62, 124. Feb. 1949. 99.81 W52

36184 DOUGLAS FIR PLYWOOD ASSOCIATION. Douglas fir plywood, 1949. Washington, 1949, 20 p. 99.79 D74D

36185 IYER, N. K. A. Plywood manufacture in India. West Coast Lumberman 76(2): 76, 78, 82, 126. Feb. 1949. 99.81 W52

36186 KOUTONEN, A. Plywood progress continues. West Coast Lumberman 76(2): 60, 135. Feb. 1949. 99.81 W52

36187 NARAYANAMURTI, D., and PANDE, J. N. Durability trials on glues and plywood. Indian Forest B. New Ser., Comp. Wood & Wood Preserv. 139, 13 p. 1948. 99.9 In22B

36188 NICHOLS, W. Modern assembly gluing. II. Timber News 56: 472-474. Dec. 1948. 99.81 T482

36189 PERRY, T. D. Fundamentals of edge gluing lumber. Wood Prod. 54(3): 39-42. Mar. 1949. 99.82 W856

36190 PERRY, T. D. Glue preparation. Wood Prod. 54(2): 39-43. Feb. 1949. 99.82 W856

36191 PERRY, T. D. Single opening hot plate press has possibilities for veneer users. Canad. Woodworker 49: 32, 58. Jan. 1949. 99.82 C162

36192 PERRY, T. D. The supplier and the user of wood glues. Wood Working Digest 51(3): 75-76, 78, 80-83. Mar. 1949. 99.82 W87

36193 RUSHTON, J. T., and COPLEN, L. H. Preparation of resin adhesives. West Coast Lumberman 76(2): 66, 68, 71. Feb. 1949. 99.81 W52

36194 VAN EPPS, C. F. Mixing synthetic resin glues. Furniture Mfr. 64(3): 46-47. Mar. 1949. 300.8 F982

36195 WAKEFIELD, W. E. The manufacture of veneer and plywood. Canada. Forest Serv. Mimeog. 129, 17 p. 1948. 99.9 C16B

#### Wood as Fuel

36196 FONSECA FILHO, C. DE A. Reforestation. (In Portuguese.) Rev. Ceres 7: 429-437. June/Sept. 1948. 9.2 C332

To produce fuel and charcoal.

36197 FREIDAY, J. H. Improvement of bark burning methods thru the use of flash drying. Northeast. Wood Util. Council. B. 25: 125-127. Jan. 1949. 99.9 N819 Discussion, p. 127-128.

36198 MÖRATH, E. Verminderung des brennholzverbrauchs. Österr. Forst- u. Holzwirtschaft. 3: 213-216. July 21, 1948. 99.81 Os7

36199 NORTHEASTERN WOOD UTILIZATION COUNCIL. A home made wood burning furnace. Northeast. Wood Util. Council. B. 26, 12 p. Jan. 1949. 99.9 N819

36200 REICHERT, F. Die berechnung des heizwertes Holz-Zentbl. 74: 627. Dec. 17, 1948. 99.81 H742

#### MISCELLANEOUS

36201 ANDERSON, A. H. The need for a research center in the Allegheny Plateau Forests. Forest Leaves 34 i.e. 39: 10. Jan./Feb. 1949. 99.8 F763

36202 ANTOINE, S. Fourrages et musettes ou bêtes et gens. Bois et Scieries 55: 89-90. Jan. 27, 1949. 99.81 B632

High cost of living for forest workers.

36203 ARBETSFYSIOLOGISKUNDERSÖKNINGEN, STOCKHOLM. Studier över tungt kropsarbete; arbetsfysiologiska och arbetstekniska undersökningar vid skogsavverkning [Studies of heavy manual labor; physiological and technical investigations of lumber work]. Stockholm, Förlags a. b. Affärssekonomi, 1948. 323 p. Ref. 99.76 Ar1

English summary.

36204 BASER, N. Task force for conservation. Amer. Forests 55(3): 28-29. Mar. 1949. 99.8 F762 West Virginia Forest Council.

36205 BENNETT, H. D. Conservation in action. II. Lake States Timber Digest 3(9): 13-14. Feb. 10, 1949. 99.81 L14

Minnesota.

36206 BÖHM, H. Die forstorganisation in der oberösterreichischen idee unter besonderer berücksichtigung der oberösterreichischen waldgenossenschaften. Österr. Forst- u. Holzwirtschaft. 3: 291-295. Oct. 7, 1948. 99.81 Os7

36207 BRUNDAGE, M. R. Electronic detection of concealed metal in timber. Natl. Shade Tree Conf. Proc. 24: 74-80. 1948. 99.9 N218

36208 DOMINICAN REPUBLIC. JUNTE NACIONAL DE ALIMENTACIÓN Y AGRICULTURA. La Organización de las Naciones Unidas para la Agricultura y la Alimentación celebrará próximamente en Río de Janeiro una Conferencia Latinoamericana sobre Silvicultura y Productos Forestales. Ciudad Trujillo, 1948. 8 p. 99.9 D71

36209 EKLUND, B. The organisation and work of the Swedish Forest Research Institute. Pulp & Paper Mag. Canada 50(3): 250, 252, 254, 256, 258, 260, 262. Feb. 1949. 302.8 P96

36210 FEEST, F. Was ist die gesellschaft für forschung und was will sie? Österr. Forst- u. Holzwirtschaft. 3: 241-243. Aug. 21, 1948. 99.81 Os7

36211 GILMOUR, J. D. Neighbors plan for their future. J. Forestry 47: 221. Mar. 1949. 99.8 F768 Tropical forests.

36212 GRÖN, A. H. Forestry. In The humanities and the sciences in Denmark, p. 602-604. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882

36213 HARTEL, O. Dezimalklassifikation und forstwesen. Allg. Forst- u. Holzwirtschaft. Ztg. 60: 9-11. Jan. 1949. 99.8 AL53

36214 JOHNSON, W. H. G. A natural telephone. Forest & Outdoors 45: 34. Jan. 1949. 99.8 C16 Trees as sound transmitters.

36215 JONES, O. The place of the forester in New Zealand. Austral. Timber J. 14: 673, 675, 677, 679, 681. Nov. 1948. 99.81 Au7

36216 LAMONTAGNE, L. La forêt dans la littérature française du Canada. Forêt Québécoise 14: 69-70. Feb. 1949. 99.8 F79

36217 MCFARLAND, J. W. Death comes to a giant Sequoia. Yosemite Nature Notes 28: 2-4. Jan. 1949. 409.6 Y8

36218 MCQUILKIN, W. E. Forest research in the anthracite region. Forest Leaves 34 i.e. 39: 18-19. Jan./Feb. 1949. 99.8 F763

36219 MÜLLER. Revierförster—forstwart in Hessen Allg. Forstz. 3: 20. Feb. 1, 1948. 99.8 AL52

36220 OUR FORESTS are worth preserving. Roy. Bank Canada. Monthly Let. 1949: 1-4. Feb. 1949. 280.8 R81

36221 PEPLER, W. A. E. Forest conservation in the eastern townships. Forêt Québécoise 14: 98-101, 103-108. Feb. 1949. 99.8 F79

36222 ROBBINS, P. W. Wood production on the Dunbar Forest Experiment Station. Timber Prod. Assoc. B. 70: 18-19. Jan. 1949. 99.9 T482B

36223 RYAN, J. A. The green cross is the boss. Cutting down on injury rates in the woods is just as important as cutting pulpwood. Wood [Chicago] 4: 15-17, 46. Jan. 1949. 99.82 W859

Logging accidents.



36224 SÁENZ DOZAL, J. La necesidad de agrupar a los madereros. Mensajero Forest. 7(60): 22-23. Nov./Dec. 1948. 99.8 M522

36225 SOUTHERN PINE ASSOCIATION. Southern pine wages. A study of wages paid at 361 southern pine operations, employing 32,113 wageearners in 48 job classifications, on or about December 1, 1948. New Orleans, 1949. 12 p. 283 So86

36226 SURDAM, E. Radio's use in protecting and growing the new forest. West. Forestry and Conserv. Assoc. Proc. 39: 65-68. 1948. 99.9 W522

36227 TRENK, F. B. Scout camps teach and practice tree planting. Wis. Conserv. B. 14(2): 12. Feb. 1949. 279.8 W752

36228 WARD, J. D. U. Words of the woods. Country Life [London] 104: 739-740. Oct. 8, 1948. 80 C83

36229 WESTERN FORESTRY AND CONSERVATION ASSOCIATION. Proceedings of the 39th annual meeting, Victoria, B. C., December 9, 10, 11, 1948. Portland, Oreg., 1948. 74 p. 99.9 W522

36230 XIMÉNEZ DE EMBÚN Y GONZALEZ-ARNAO, J. Sobre estética forestal y parques nacionales: el bello monte valldemosino y la técnica. I. Balearic Isl. Diputación Prov. B. de Agr. 50: 2-3. Nov. 1948. 15 B19

#### Education

36231 BESLEY, L. Training men to grow the new forest. West. Forestry and Conserv. Assoc. Proc. 39: 25-27. 1948. 99.9 W522

36232 DAY, G. M. A five-year professional degree. J. Forestry 47: 222-223. Mar. 1949. 99.8 F768

36233 DU TILLY, H. Les questions techniques et l'enseignement forestier. Féd. Natl. des Synd. de Propriétaires Forest. Sylvic. B. Off. 16: 2. July/Aug. 1948. 99.9 F315

36234 GARLAND, H. Do educational facilities meet wood industry's needs? Wood [Chicago] 4: 22-23, 53-55. (To be cont.) Jan. 1949. 99.82 W859

36235 GERIN, M. La scierie-école de Duchesnay. Forêt Québécoise 14: 71-77, 79-80. Feb. 1949. 99.8 F79

36236 INDIA. DEPT. OF AGRICULTURE. The Forest Research Institute and colleges (its scope and functions). n. p., 1948. 21 p. 99.9 D36F

36237 KÖNIG, W. Sorgen der forststudenten. Allg. Forstz. 3: 27-28. Feb. 15, 1948. 99.8 AL52

36238 LAMP, J. Die probe auf das exempel. Österr. Forst- u. Holzwirtschaft. 3: 296-298. Oct. 7, 1948. 99.81 Os7

The teaching of forestry.

36239 OGRINC, J. P. A farm forestry program for rural schools. J. Forestry 47: 215-216. Mar. 1949. 99.8 F768

36240 RUPF, Die bedeutung der ausbildung in der forstwirtschaft. Allg. Forstz. 3: 115-117. June 15, 1948. 99.8 AL52

36241 SOUZA, P. F. Forestry schools. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 357-364. Nov./Dec. 1948. 9.2 R324

36242 WODERA, H. Forstwirtschaftliche arbeitgemeinschaft an der hochschule für bodenkultur in Wien. Österr. Forst- u. Holzwirtschaft. 3: 216-217. July 21, 1948. 99.81 Os7

#### Forest Engineering

36243 DUBRET, R. La misère des chemins forestiers. Bois et Scieries 55: 5-7, 33-34. Jan. 6-13, 1949. 99.81 B632

36244 MORRISON, V. Keeping roads alder free by use of chemical sprays. West. Forestry and Conserv. Assoc. Proc. 39: 71-72. 1948. 99.9 W522

36245 SCHROEDER, G. Should all logging roads be converted to truck roads and maintained. West. Forestry and Conserv. Assoc. Proc. 39: 59-60. 1948. 99.9 W522

36246 UGLAS, C. AF. Road clearing with tractor. (In Swedish.) Skogen 36: 22. Jan. 15, 1949. 99.8 Sk51

#### Forest Influences

36247 BASOV, G. F. Results of a fifty year study of the hydrological role of shelterbelts in Kamennafá Steppe. (In Russian.) Pochvovedenie 1948: 475-484. Aug. 1948. 57.8 P34

36248 DRAEMEL, M. F. Reforestation, an answer to supplies of clear waters. Pa. Forests & Waters 1: 53, 67. 1949. 99.8 P38

#### Wildlife

36249 WAUTHOZ, V. Le gros gibier, la forêt et la plaine dans le Luxembourg Belge. Soc. Cent. Forest. de Belg. B. 56: 1-15. Jan. 1949. 99.9 B83

#### ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

#### BREEDS AND BREEDING

36250 BONADONNA, T. Artificial insemination in England. (Travel notes and observations). (In Italian.) Zootec. e Vet. 3: 645-663. Oct. 1948. 41.8 Z7

36251 BONADONNA, T. Artificial insemination in the north and west of Europe. (In Italian.) B. dell'Agr. 82(24): 1. Dec. 7, 1948. 16 B87

36252 BONADONNA, T. Current practice of artificial insemination in North Europe. (Notes on a trip to Sweden, Denmark, and Holland.). (In Italian.) Zootec. e Vet. 3: 523-538. Aug. 1948. 41.8 Z7

36253 BONADONNA, T. Nozioni di tecnica della fecondazione artificiale degli animali [Ideas on the technique of artificial insemination in animals]. Ed. 3, rev. and enl. Milano, Cisalpino, 1948. 487 p. 40 B645

36254 BONADONNA, T. Organization and results of artificial insemination in France (Travel notes and observations.). (In Italian.) Zootec. e Vet. 3: 581-596. Sept. 1948. 41.8 Z7

36255 BONADONNA, T. Problems of livestock reproduction. (In Italian.) Italia Agr. 86: 22-24. Jan. 1949. 16 It1

36256 BORINI, F. Results of transoceanic artificial insemination. (In Italian.) Rinascita Agr. 3(19): 2. Aug. 1, 1948. 281.8 R47

36257 DÜRRWAECHTER, L. Züchtungsfibel. München, Bayerischer Landwirtschaftsverlag, 1948. 95 p. (Landwirtschaftliche Praxis. 3) 40 D93

36258 GALLINA, L. The first experiment in artificial insemination with sperm transported from the United States. (In Italian.) Prog. Vet. 3: 346-347. Oct. 15, 1948. 41.8 P942

36259 GALLIEN, L., and ROUX, P. L'insémination artificielle chez les animaux domestiques. Paris, Presses U. de France, 1948. 266 p. 40 G13

36260 GHEDINA. Artificial insemination in France and England. (In Italian.) Allevatore 4(48): 2. Nov. 28, 1948. 49 AL55

36261 GOMES, C. E. S. Economic value of artificial insemination. (In Portuguese.) Granja [Porto Alegre] 4(36/37): 38. Sept./Oct. 1948. 9.2 G76

36262 GRANT, R. M. Engineering better meat. Pop. Mechanics Mag. 91(2): 174-177, 246, 252. Feb. 1949. 291.8 P81

Improving types of livestock.

36263 KASHTANOV, L. V. To get rid of the remainders of Morganism in zootechnical science. (In Russian.) Konevodstvo 18(5): 6-13. Sept./Oct. 1948. 42.8 K832

Livestock genetics.

36264 LOMNITZ-WALDHOF. Rückblick auf 20 jahre künstliche besamung. Kurzbriefe f. Ernährung u. Landw. 11: A III 1a, 4 p. Nov. 1948. 281.8 K96

36265 LUSH, J. L. Recent developments in animal breeding. Austral. Inst. Agr. Sci. J. 14: 158-161. Dec. 1948. 23 Au74

36266 MALPRESS, F. H. The use of hormones in animal husbandry. Chem. & Indus. 1949: 99-104. Feb. 12, 1949. 382 M31C

36267 MARCANTONIO, C. The significance of pedigree as a current idea in the time of Virgil and Horace. (In Italian.) Humus 4(12): 12-13. Dec. 1948. 16 H88

36268 MILOVANOV, V. K., and SMIRNOV-UGRUMOV, D. V. Iskusstvénnoe osemenenie sel'skokhoziáistvennykh zhivotnykh [Artificial insemination of farm animals]. Ed. 2. Moskva, Sel'khozgiz, 1948. 109 p. 40 M63O



- 36269 PALTRINIERI, S. Inauguration of the artificial insemination center at Santa Maria a Monte. (In Italian.) Riv. di Zootec. 21: 362. Nov. 1948. 49 R52
- 36270 PITTONI, G. Artificial insemination of animals in Europe. I-II. (In Italian.) Allevatore 4(46): 1; (47): 1. Nov. 14-21, 1948. 49 AL55
- 36271 PORTEOUS, H. Purebreds make more dough. Calif. Farmer, South. Ed. 190: 202-203. Feb. 26, 1949. 6 C126A
- 36272 ROTHSCILD, LORD. Measurement of sperm activity before artificial insemination. Nature [London] 163: 358-359. Mar. 5, 1949. 472 N21
- 36273 SHATALOV, P. I. Uvelichenie priploda sel'skokhoziaistvennykh zhivotnykh [Increasing the progeny of farm animals]. Sverdlovsk, Sverdlovskoe Obl. Gos. Izd-vo, 1948. 93 p. 40 Sh23
- 36274 VAN COSTE, C. A propos de la consanguinité. Rev. Agr. de l'Afrique du Nord 46: 656-658. Dec. 24, 1948. 80 R326  
Livestock.

## FEEDS AND FEEDING

- 36275 ADAMS, G. H. Home-made drier ups alfalfa protein; artificial curing test shows \$8.10 per ton increase in value of hay at cost of \$2.00. Irrig. Farmer 6 (10): 1, 8, 16. Feb. 3, 1949. 55.8 Ir78
- 36276 ALIMENTATION animale. Indus. Lait. 26/27: 190-214. Nov./Dec. 1948. 44.8 In2  
A special issue of the periodical.  
Conclusion, by A. M. Leroy, p. 211-212.
- 36277 ANDERSON, W. L. The trace elements. 3. Hoard's Dairyman 94(3): 106. Feb. 10, 1949. 44.8 H65  
Causes of trace element deficiencies in pasture.
- 36278 ASHTON, G. C. Field of genetics now target of study. Milling & Feed 30(2): 11, 33. Feb. 1949. 298.8 C162  
Chiefly on livestock nutrition research.
- 36279 ASHTON, G. C. Potatoes for livestock. Milling & Feed 30(3): 16-17. Mar. 1949. 298.8 C162
- 36280 ASHTON, G. C. Vitamins in feed. Milling & Feed 30(1): 13, 71. Jan. 1949. 298.8 C162
- 36281 AXELSSON, J. Dry weight and fiber content in livestock feed. (In Swedish.) Lantmannen 33: 133-134. Feb. 19, 1949. 11 L234
- 36282 AXELSSON, J. Molasses in preservation of silage. (In Swedish.) Lantmannen 33: 113-114. Feb. 12, 1949. 11 L234
- 36283 BAIRD, F. D. Irradiated yeast vitamin D source. Milling & Feed 30(3): 24-25. Mar. 1949. 298.8 C162  
In livestock feeding.
- 36284 BANERJI, S. J. Grazing problems in the sub-marginal lands. Indian Forester 74: 138-145. Apr. 1948. 99.8 In2
- 36285 BEALL, F. Good feeding takes know-how, too. Farmer-Stockman 62(3): 56. Mar. 1949. 6 Ok4
- 36286 BERNARD, J. Un débouché naturel pour la pomme de terre, la consommation animale. Nord Agr. 5(11): 1. Jan. 1949. 14 N75  
Also in Unité Paysanne 4(167): 2. Jan. 15, 1949. 14 Un3; Pomme de Terre Franç. 12(114): 13-15. Feb. 1949. 75.8 P77
- 36287 BIRD, J. Speed-up hormone for livestock. Country Gent. 119: 18, 84-85. Jan. 1949. 6 C833  
Effects of thyroprotein.
- 36288 BLIN, H. Produit d'un hectare de fourrage en viande, lait et force motrice. Monit. Agr. 2(56): 2. Feb. 6, 1949. 14 M744  
Amount of meat obtained from various animals for a given quantity of feed.
- 36289 BOHSTEDT, G. Recent developments in the mineral nutrition of livestock. Feedstuffs 21(9): 42-44, 46-47. Feb. 26, 1949. 286.81 F322
- 36290 BOTHA, J. P. How to make good veld hay. Farming So. Africa 23: 759-761, 763. Nov. 1948. 24 So842
- 36291 BULL, S., and CARROLL, W. E. Principles of feeding farm animals. Rev. ed. Danville, Ill., Interstate, 1949. 400 p. 389.7 B87
- 36292 BUSCH, H. Das kastanienmehl als kaninchen-, hühner- u. ziegenfutter. Kleintier-Zücht. Tierbörse 3 (50): 9. Dec. 25, 1948. 49 K672
- 36293 BUTTNER, E. E. Vitamin A necessary for cows and poultry. So. African Poultry, Pigeon & Bird Mag. 74(445): 6, 16. Feb. 1949. 47.8 So83
- 36294 CARROLL, W. E. Four-legged ever-normal granary. Breeder's Gaz. 114(4): 10, 33. Apr. 1949. 49 B74  
"Storage" of feed surpluses in the bodies of livestock.
- 36295 COOPÉRATIVE AGRICOLE LAITIÈRE DU TALOU. L'ensilage des queues de betteraves sucrières. Gruchet, 1948. 73 p. 389.7 C783
- 36296 CORNELL NUTRITION CONFERENCE FOR FEED MANUFACTURERS. Proceedings. Ithaca, N. Y., Cornell U., 1948. 65 p. 389.79 C81
- 36297 CORRIE, F. E. Feeding farm animals. Fert., Feed. Stuffs & Farm Supplies J. 35: 135, 137-138. Mar. 9, 1949. 57.8 F413
- 36298 DAVIS, G. K. Trace minerals in animal nutrition. Cornell Nutr. Conf. Feed Mfrs. Proc. 1948: 59-61. 389.79 C81
- 36299 DELAFORGE, O. Les matières minérales dans l'alimentation des animaux. Monit. Agr. 2(57): 4. Feb. 13, 1949. 14 M744
- 36300 EDEN, A. Trace elements in animal nutrition. Agr. Prog. 23: 59-66. 1948. 10 Ag86
- 36301 ELLISON, W. Find the protein. Farmers Weekly [London] 30(5): 41. Feb. 4, 1949. 10 F2226  
Farm production of proteins for livestock feed.
- 36302 ENGELS-SPEYER. Zur problematik der futtermittelkunde. Kurzbrieft f. Ernähr. u. Landw. 10, A III 2a, 4 p. Oct. 1948. 281.8 K96
- 36303 FERRARI, E. Mineral salts for livestock. (In Italian.) B. dell'Agr. 82(24): 1. Dec. 7, 1948. 16 B87
- 36304 FORBES, R. M. Some difficulties involved in the use of fecal nitrogen as a measure of dry matter intake of grazing animals. J. Anim. Sci. 8: 19-23. Feb. 1949. 49 J82
- 36305 FRASER, A. The old and the new. II. Animal feeding. Young Farmer 17: 25-26. Jan./Feb. 1949. 10 Y8
- 36306 GRAZIERS' ASSOCIATION OF NEW SOUTH WALES. The graziers' annual, 1948 ed. Sydney, 1948. 312 p. 45.9 G79
- 36307 GRETHNER, A. Le sel marin de l'Atlantique dans la conservation des fourrages. Anjou Agr. 3(110): 3. Jan. 10, 1949. 14 An5  
Salt in animal nutrition.
- 36308 HARRIS, E. E. Wood molasses for stock feed. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1731, 9 p. Oct. 1948. 1.9 F761R
- 36309 HELLBERG, A. Ensilage with molasses in silos. (In Swedish.) Lantmannen 33: 105. Feb. 12, 1949. 11 L234
- 36310 HORNE, F. R. Hay making methods in relation to the feeding value of hay. Brit. Goat Soc. Ybk. 1949: 72-73, 75. 40.19 B77
- 36311 HUDSON, D. S. High protein from beet tops and vegetable waste. Farmers Weekly [London] 30(7): 31. Feb. 18, 1949. 10 F2226  
Drying sugar beet tops for feed.
- 36312 HULA. Gut eingesäuert - gut gefüttert! Winke zur silageverfütterung. Pflug 2: 5-6. Jan. 1949. 19 P48
- 36313 IRWIN, W. E. Good grass on both sides of the fence. Vet. Med. 43: 499. Dec. 1948. 41.8 M69  
Veterinary aspects of soil fertility.
- 36314 JARL, F. New investigations on the nutritive value of the by-products of sugar beet cultivation. (In Swedish.) Sweden. Lantbrukshögsk. Husdjursförsöksanst. Särtryck och Föhrhandsmeddel. 73: 145-158. 1948. 49.9 Up6  
English summary.  
For livestock feeding.
- 36315 JUKES, T. H. Nutritional studies with the animal protein factor and folic acid. Feedstuffs 21(8): 16-20. Feb. 19, 1949. 286.81 F322
- 36316 KNIELY, A. Tränken—aber richtig! Kärntner Bauer 99: 37-38. Feb. 1, 1949. 19 K14  
Livestock.
- 36317 KRATZER, F. H. Nutrition in oil cake meals. Flour & Feed 49(10): 24. Mar. 1949. 298.8 F66
- 36318 LANCASTER, R. J. Estimation of digestibility of grazed pasture from faeces nitrogen. Nature [London] 163: 330-331. Feb. 26, 1949. 472 N21



- 36319 LA ROCHE, W. VON, and POELT, H. Mehr und besseres gärfutter. München, Bayerischer Landwirtschaftsverlag, 1948. 83 p. (Landwirtschaftliche Praxis. 6) 60.7 L32
- 36320 LEWIS, G. R. Livestock feeding gives sugar beets dual role in farm economy. Sugar Beet 8: 8-10. Mar. 1949. 66.8 Su34B
- 36321 LOOCK, E. E. M. Fodder trees for stock feed; three types suitable for Union conditions; nourishing pods of mesquite, honey locust and the carob. Farmer & Home Companion 38(3): 6. (To be cont.) Jan. 21, 1949. 24 F227
- 36322 LOOSLI, J. K. Vitamin E studies. Flour & Feed 49(10): 30. Mar. 1949. 298.8 F66
- 36323 LOOSLI, J. K. Vitamin E studies with farm animals. Cornell Nutr. Conf. Feed Mfrs. Proc. 1948: 19-22. Ref. 389.79 C81
- 36324 LUND, A. Farm animals. In The humanities and the sciences in Denmark, p. 592-595. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- Feeding.
- 36325 MCCARTHY, G. P. The place of dehydrated alfalfa meal in formula feeds. Feedstuffs 21(11): 22-23. Mar. 12, 1949. 286.81 F322
- 36326 MCLEAISH, R. B. Making the most of citrus by-products. Tex. Farming & Citric. 25(9): 20. Mar. 1949. 80 T31
- Pulp and molasses for feed.
- 36327 MARTÍN DE VALLEJERA, J. Los problemas de la ganadería trashumante. Ganadería [Madrid] 6: 543. Oct. 1948. 49 G15
- 36328 MAYNARD, L. A. Appetite vs. nutrition. Flour & Feed 49(10): 14. Mar. 1949. 298.8 F66
- Livestock.
- 36329 MAYNARD, L. A. Appetite versus nutrition requirements. Cornell Nutr. Conf. Feed Mfrs. Proc. 1948: 3-6. Ref. 389.79 C81
- 36330 MORRISON, F. B. New aids to the livestock feeder; in no other country has so much scientific knowledge of direct value to stockmen been gained through research. Shorthorn World 33(21): 7-8, 36-37, 45-48. Feb. 10, 1949. 43.8 Sh8
- 36331 MORRISON, F. B. Protein quality in livestock feeds. Soybean Digest 9(5): 35. Mar. 1949. 60.38 So9
- 36332 NORDIO, C. Hematological studies on the action of methylthiouracil used in various animal species for the purpose of fattening. (In Italian.) Zootec. e Vet. 3: 611-614. Oct. 1948. 41.8 Z7
- Experiments with chickens, rabbits, goats, and swine.
- 36333 NORRIS, L. C. New developments in unidentified vitamins. Cornell Nutr. Conf. Feed Mfrs. Proc. 1948: 25-32. 389.79 C81
- 36334 PEPPER, H. C. Winter pastures—labor and hay savers. Agrarian 8(2): 17. Jan. 1949. 276.8 Ag8
- 36335 PÉREZ S., V. M. El ensilaje como alimento. Suelo Tico 1: 224-227. Oct. 1948. 8 Su2
- 36336 POELT, H. Die gärfutterbereitung mit kohlen-säure. Landw. Wchnbl. 138: 444. Dec. 18, 1948. 18 L2338
- 36337 RALSTON PURINA COMPANY. Carotene and vitamin A for farm animals. Nutr. News B. 5(1), 4 p. Jan. 1949. 389.78 N95
- 36338 RAMÍREZ S., C. A. Modernas consideraciones sobre nutrición animal. Agr. Trop. Sup. Agron. 5: 21-24. Jan. 1949. 26 Ag8
- 36339 RAUH, G. Das futtermittelgesetz; was der bauer davon wissen muss. Landw. Wchnbl. 138: 463. (To be cont.) Dec. 25, 1948. 18 L2338
- 36340 REID, J. T. Relationship of nutrition to fertility in animals. Amer. Vet. Med. Assoc. J. 114: 158-164. (To be cont.) Mar. 1949. 41.8 Am3
- 36341 RODÓN, J. M. Los condimentos en ganadería. Cult. Mod. 31: 455. Dec. 1948. 15 C89
- 36342 ROGERS, C. F. Reduce silage losses. Ohio Farm & Home Res. [Ohio Sta.] 33: 180-183. Nov./Dec. 1948. 100 Oh3S
- 36343 SELLE, L. V. Naturals. Flour & Feed 49 (10): 25. Mar. 1949. 298.8 F66
- Feed formulas.
- 36344 SEWELL, W. E. Coconut meal for livestock. Amer. Feed & Grain Dealer 33(1): 10-11, 33. Ref. Feb. 1949. 298.8 C83
- 36345 SEYFARTH, W. Junges schilfrohr als futter nutzen. Land Wald u. Gart. 3: 162. July 1948. 18 L22
- 36346 SHEEHY, E. J. The place of maize in farm feeding. Agr. Ireland 6: 37, 39-40. Feb. 1949. 10.5 Ag8
- 36347 SITTNER, F. Vorteilhafte verwertung der rübenblätter und der rückstände bei der zuckererzeugung. Österr. Bauernbündler 4(51): 12. Dec. 25, 1948. 19 Os7
- 36348 SWEDEN. LANTBRUKSHÖGSKOLAN. HUSDJURSFÖRSÖKSANSTALTEN. Preliminary report on the activities of the Livestock Research Institute of the Agricultural College. (In Swedish.) Sweden. Lantbruks-högsk. HUSDJURSFÖRSÖKSANST. Särtryck och Förhands-meddel. 65, 16 p. 1948. 49.9 Up6
- Contents: I. Results of cattle feeding experiments and ensilage experiments, by F. Jarl. II. Experiments with swine, by S. Nordfeldt. III. Experiments with poultry, by N. Olsson.
- 36349 THOMAS, B. Moorland pastures—their contribution to animal nutrition. (Sum.) Chem. and Indus. 1949: 75. Jan. 29, 1949. 382 M31C
- 36350 TURK, K. L. Feed molasses to reduce feed costs. Dairymen's League News 33(3): 6-7. Feb. 8, 1949. 44.8 D1432
- 36351 TURK, K. L. Value of molasses. Flour & Feed 49(10): 26. Mar. 1949. 298.8 F66
- As feed.
- 36352 UNDERWOOD, E. J., COLEMAN, R. G., and CURNOW, D. H. Carotene losses in curing and storing cereal hay. Austral. Inst. Agr. Sci. J. 14: 175-179. Ref. Dec. 1948. 23 Au74
- 36353 VAN WYK, H. P. D. Potatoes as stock feed. Farming So. Africa 23: 783-785, 788. Dec. 1948. 24 So842
- 36354 VEYRON, J. Les aromates dans l'alimentation du bétail. Paysan Franç. 24(374): 6. Feb. 1949. 14 P29
- 36355 VOISIN, A. La queue de betterave sucrière, élément de base des rations d'hiver. Indus. Lait. 29: 19-22. Feb. 1949. 44.8 In2
- 36356 WATSON, S. J. The nutritive value of silage and dried grass. Edinb. and East Scot. Col. Agr. Misc. P. 28, 14 p. Ref. July 1948. 103 Ed4M
- 36357 WILGUS, H. W. Trace minerals in animal nutrition. Feedstuffs 21(11): 44-46, 48-50, 52-55. Mar. 12, 1949. 286.81 F322
- 36358 WÖHLBIER, W. Kleie und kleiefütterung. Württemb. Wchnbl. f. Landw. 115: 395. Dec. 18, 1948. 18 W96
- Also in Allgäuer Bauernbl. 17: 33. Jan. 21, 1949. 18 AL53
- 36359 WYSS-DUNANT, E. Les oranges au secours du bétail avitamine. Terre Maroc. 21: 56-57. Feb. 1949. 24 T44
- 36360 ZANOTTI, M. Vitamins in animal nutrition. (In Italian.) Allevatore 4(44): 3. Oct. 31, 1948. 49 AL55
- 36361 ZELLE, L. V. Synthetic animal protein factor still must pass feed lot test. Feedstuffs 21(8): 46-47. Feb. 19, 1949. 286.81 F322

## VETERINARY MEDICINE

- 36362 ADSERSEN, V. Diseases in smaller domestic animals. In The humanities and the sciences in Denmark, p. 560. Copenhagen, E. Munksgaard, 1948. 330 H882
- 36363 ADSERSEN, V. Pharmacology (and toxicology) in the humanities and the sciences in Denmark, p. 561-562. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- 36364 ALESSANDRELLO, S. Some notes on abortion in livestock. (In Italian.) Avvenire Agr. 56: 322-323. Dec. 1948. 16 Av9
- 36365 ATTINÀ, S. Sanitary reforms. (In Italian.) Prog. Vet. 3: 330-331. Oct. 15, 1948. 41.8 P942
- Summary of talk.
- 36366 BANKS, W. C. Rabies. Tex. Agr. Col. Ext. L-87, 4 p. 1949. 275.29 T313
- 36367 BARLOW, F. S. Let's rid Ohio of brucellosis. Ohio Farmer 203(4): 22-23. Feb. 19, 1949. 6 Oh3
- 36368 BENDIXEN, H. C. Diseases in large domestic animals. In The humanities and the sciences in Denmark, p. 555-559. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882



- 36369 BISIO, A. The integration of the veterinary and zootechnical services in relation to the national economy. (In Italian.) *Prog. Vet.* 3: 328-330. Oct. 15, 1948. 41.8 P942  
In Italy.
- 36370 BOCHAROV, I. A. Chastnââ patologîi i terapiâ vnutrennikh nezaraznykh boleznei domashnikh zhivotnykh [Special pathology and therapy of internal non-contagious diseases of domestic animals]. Ed. 3, rev. and enl. Moskva, Sel'khozgiz, 1948. 575 p. (Uchebniki i Uchebnye Posobiâ dliâ Veterinarnykh Tekhnikumov) 41 B639
- 36371 BONADUCE, A., and BERGONZINI, M. On the production of anti-anthrax sera. II. Further research on the preferred way of inoculating the antigen. (In Italian.) *Clin. Vet. [Milan]* 72: 41-47. Feb. 1949. 41.8 C61
- 36372 BRIGGS, M. Vet school's anatomy department is known for pioneering in its field. *Kans. Indus.* 75(12): 4. Jan. 20, 1949. 6 In22  
Kansas State College of Agriculture.
- 36373 BUXTON, J. C. Some observations on the significance of certain streptococci in veterinary practice. *Vet. Rec.* 61: 61-64. Feb. 5, 1949. 41.8 V641
- 36374 CANTER, D. Guía de trabajos prácticos de técnica quirúrgica. I. Neurectomías. Buenos Aires. Cent. de Estud. de Med. Vet. Rev. 17(26): 33-41. Apr./June 1948. 41.9 B86
- 36375 CAPOBIANCO, M. Present programs in the fight against brucellosis. (In Italian.) *Clin. Vet. [Milan]* 72: 1-21. Jan. 1949. 41.8 C61
- 36376 CAVRINI, C. Foot-and-mouth disease in the legal medical field. (In Italian.) *Nuova Vet.* 24: 352-354. Oct. 15, 1948. 41.8 N922
- 36377 CENNA, A. Stabulogenous vaccine in enzootic diarrhoea. (In Italian.) *Nuova Vet.* 24: 380-381. Nov. 15, 1948. 41.8 N922
- 36378 COCCHI, L. Foot-and-mouth disease. (In Italian.) *Allevatore* 4(45): 3. Nov. 7, 1948. 49 AL55
- 36379 CRAWFORD, J. S. The successful approach in veterinarian-client relationship. *North Amer. Vet.* 30: 175-181. Mar. 1949. 41.8 N812
- 36380 DAVIDSON, J. L. Recent pharmaceutical advances applicable to veterinary medicine. *North Amer. Vet.* 30: 160-167. Ref. Mar. 1949. 41.8 N812
- 36381 DOBIE, J. F. The war against aftosa. *Country Gent.* 119(3): 30, 136-140. Mar. 1949. 6 C833  
Control of foot-and-mouth disease.
- 36382 EMMERSON, J. A new technic in treatment of abscesses. *Vet. Med.* 44: 152-154. Ref. Apr. 1949. 41.8 M69  
Treatment with glycerite of hydrogen peroxide.
- 36383 ERICKSON, A. E. A small hospital in a small town pays. *Vet. Med.* 43: 481-483. Nov. 1948. 41.8 M69
- 36384 ERIKSEN, S. Livestock loss prevention. Protection of cattle from disease is one of the continuous responsibilities of herdsman and owner. *Shorthorn World* 33(22): 67-68. Feb. 25, 1949. 43.8 Sh8
- 36385 EVANS, W. C., and EVANS, E. T. R. Relation of a clover juice factor causing paralysis of smooth muscle in bloat in ruminants. *Nature [London]* 163: 373-375. Mar. 5, 1949. 472 N21
- 36386 FARRAG, H. The sensitiveness of pathogenic staphylococci isolated from animals to penicillin. *Brit. Vet. J.* 105: 64-66. Feb. 1949. 41.8 V643
- 36387 FAULHABER, L. J. Livestock disease work reviewed. *N. C. Dept. Agr. Agr. Rev.* 24(3): 1, 3. Feb. 1, 1949. 2 N81Ag
- 36388 FLORIO, R. Les antihistaminiques de synthèse en médecine vétérinaire—bilan actuel. *Rev. de Path. Compar.* 48: 524-544. Oct. 1948. 448.8 R326  
English summary.
- 36389 FLÜCKIGER, G. Die bekämpfung der maul- und klauenseuche auf moderner grundlage. *Tierärztl. Umschau* 3: 233-237. Aug. 1948. 41.8 T445
- 36390 FØLGER, A. F. General pathology and pathological anatomy. In *The humanities and the sciences in Denmark*, p. 552-554. Copenhagen, E. Munksgaard, 1948. 330 H882  
Of livestock.
- 36391 FOLLEY, S. J., and FRENCH, T. H. Acetate as a possible precursor of ruminant milk fat, particularly the short-chain fatty acids. *Nature [London]* 163: 174-175. Ref. Jan. 29, 1949. 472 N21
- 36392 FRANCIS, J. Bacterial chemotherapy in veterinary medicine. *Indian Vet. J.* 25: 218-238. Ref. Jan. 1949. 41.8 In2  
Use of sulfonamides.
- 36393 FRASER, A. C., and DAY, F. T. Contributions that breeding can make to preventive medicine. Discussion by the Central Veterinary Society. *Vet. Rec.* 61: 97-99. Feb. 26, 1949. 41.8 V641  
General discussion, p. 100.
- 36394 GADOLA, A. Rabies in East Africa. (In Italian.) *Zootec. e Vet.* 3: 512-513. Aug. 1948. 41.8 Z7
- 36395 GASCO, G. Agrarian reform and postponement of the veterinary services. (In Italian.) *Prog. Vet.* 3: 335-336. Oct. 15, 1948. 41.8 P942  
Italy.
- 36396 GASSNER, F. X. Applied endocrinology in veterinary medicine. III. *Norden News* 23(2): 4-5. Mar./Apr. 1949. 41.8 N75
- 36397 GEROSA, G. On some recent discoveries in the treatment of diarrhea of the new born. (In Italian.) *Zootec. e Vet.* 3: 508-510. Aug. 1948. 41.8 Z7  
Foals, calves, and pigs.
- 36398 GIBBONS, W. J. Pointers for practitioners. *Auburn Vet.* 5: 75-76. Winter 1949. 41.8 Aul
- 36399 GIULIANI, R. Constitution and constitutional types in livestock. (In Italian.) *Riv. di Zootec.* 21: 301-306, 333-337. Oct., Nov. 1948. 49 R52
- 36400 GUERREIRO, M. G. Utilization of the egg in virus research. (From a report on a trip to the United States.) (In Portuguese.) *Rio Grande do Sul. Dir. da Prod. Anim. B.* 4(6): 3-11. June 1948. 49.9 R47  
Chick embryos.
- 36401 HABEL, R. E. Applied anatomy, a laboratory guide for veterinary students. Ithaca, 1948. 109 p. 444 H117
- 36402 HAGAN, W. A. The advancement of veterinary education. *North Amer. Vet.* 30: 145-152. Mar. 1949. 41.8 N812
- 36403 HOLGADO RIVAS, D. E. Actinomicosis: recopilación de estudios efectuados sobre su etiología y tratamientos. *Soc. Rural de Rosario. Rev.* 17(319/320): 99, 101-107. Ref. Sept./Oct. 1948. 9 So14
- 36404 HOWARTH, J. A. Errors in management and veterinary practice. *Amer. Vet. Med. Assoc. J.* 114: 153. Mar. 1949. 41.8 Am3
- 36405 HUGHES, L. E. Some aspects of animal husbandry in relation to preventive medicine. *Brit. Vet. J.* 105: 54-62. Feb. 1949. 41.8 V643
- 36406 IPATOV, P. P. Industrial practice of students of veterinary colleges. (In Russian.) *Veterinariâ* 25(6): 9-12. June 1948. 41.8 V6426
- 36407 KESTER, W. O., and MILLER, E. B. Atomic warfare and the veterinary profession. *Amer. Vet. Med. Assoc. J.* 114: 113-119. Mar. 1949. 41.8 Am3
- 36408 KHOMENKO, V. S. Methods of certification of new chemico-therapeutic preparations. (In Russian.) *Veterinariâ* 25(10): 39-41. Oct. 1948. 41.8 V6426
- 36409 KIRKSEY, G. Anti-aftosa fight steps up. Rate of vaccination up sharply in Mexican campaign—authorities continue optimistic. *Amer. Hereford J.* 39(20): 54. Feb. 15, 1949. 43.8 Am32
- 36410 KNOOP, F. Abbau und aufbau der aminosäuren im tierkörper. *Angew. Chem. Ausg. A.* 60: 33-35. Feb. 1948. 384 Z33
- 36411 KOLIAKOV, I. A. E. Concerning the principle of eradication in the control of infectious diseases of farm animals. (In Russian.) *Veterinariâ* 25(6): 13-16. June 1948. 41.8 V6426
- 36412 KOPROWSKI, H. Experimental studies on rabies virus. *Canad. J. Pub. Health* 40: 60-67. Feb. 1949. 449.8 P964
- 36413 KOROPOV, V. M. Development of pathological physiology in the veterinary colleges and its immediate problems. (In Russian.) *Veterinariâ* 25(6): 4-9. June 1948. 41.8 V6426
- 36414 KOROPOV, V. M. 140th anniversary of the highest veterinary school. (In Russian.) *Veterinariâ* 25(8): 4-9. Aug. 1948. 41.8 V6426  
Moskovskii Veterinarnyi Institut.
- 36415 KRESTNIKOV, N. V. Construction of veterinary institutions. (In Russian.) *Veterinariâ* 25(8): 25-28. Aug. 1948. 41.8 V6426  
Hospitals, laboratories, etc.



- 36416 LANFRANCHI, A. On conditioned infective diseases and infective diseases of complex etiology among the ultravirus infections, with special reference to hog cholera and foot-and-mouth disease. (In Italian.) *Nuova Vet.* 24: 296-300. Sept. 15, 1948. 41.8 N922
- 36417 LANFRANCHI, A. The present state of our knowledge on some aspects of foot-and-mouth disease. (In Italian.) *Nuova Vet.* 24: 332-345. Ref. Oct. 15, 1948. 41.8 N922
- 36418 LASSERRE, R., PUGET, E., and TRÉMOUILHE, P. Pénicilline et chirurgie vétérinaire; expérimentation clinique. *Rev. de Méd. Vét.* [Toulouse] (n. s.) 12: 1-20. Ref. Jan. 1949. 41.8 R32
- 36419 LIKHACHEV, N. V., and SIURIN, V. N. For Michurin principles in the study of viruses. (In Russian.) *Veterinariia* 25(10): 12-15. Oct. 1948. 41.8 V6426
- 36420 LUND, H. Hygiene. In *The humanities and the sciences in Denmark*, p. 454-455. Copenhagen, E. Munksgaard, 1948. 330 H882
- Includes transmission of tuberculosis to livestock.
- 36421 MCCALLAM, J. A. The Army Veterinary Service. *North Amer. Vet.* 30: 156-159. Mar. 1949. 41.8 N812
- 36422 MAFFI, M. Anatomy and physiology of mating and diffusive factors (jaluronidases). (In Italian.) *Zootec. e Vet.* 3: 491. Aug. 1948. 41.8 Z7
- 36423 MARKOV, A. A. Eradication in the control of protozoan diseases in domestic animals. (In Russian.) *Veterinariia* 25(8): 10-13. Aug. 1948. 41.8 V6426
- 36424 MARTY, J. P. La pénicilline, ses possibilités d'application en thérapeutique vétérinaire. Paris, Vigot, 1948. 95 p. 396 M362
- 36425 MATHER, J. M. The veterinarian in a rural public health program. *Amer. Vet. Med. Assoc. J.* 114: 120-123. Mar. 1949. 41.8 Am3
- 36426 MIRRI, A. The germs of secondary infections and sulfamide therapy in apoplectic aphtha. (In Italian.) *Nuova Vet.* 24: 330-332. Oct. 15, 1948. 41.8 N922
- Sequelae to foot-and-mouth disease.
- 36427 MIRRI, A. On the treatment of apoplectic aphtha with sulfamides. (In Italian.) *Clin. Vet.* [Milan] 72: 50-51. Feb. 1949. 41.8 C61
- 36428 MOHAN, R. N. Nasal schistosomiasis: its control and treatment in West Bengal. *Indian Farming* 9: 332-334. Aug. 1948. 22 In283
- 36429 MOINE, G. Lettre aux éleveurs sur la prophylaxie de la fièvre aphteuse. *Nord Agr.* 5(9): 2, 4. Dec. 31, 1948. 14 N75
- 36430 MONTAGNA, W. Glycogen and lipids in human cartilage, with some cytochemical observations on the cartilage of the dog, cat, and rabbit. *Anat. Rec.* 103: 77-92. Ref. Jan. 1949. 447.8 An1
- 36431 MUNRO, D. A., and LALL, J. M. Nutritional pathology. *Indian Vet. J.* 25: 239-249. Jan. 1949. 41.8 In2
- 36432 NIKIFOROVA, N. M. Active prophylaxis against pasteurellosis in poultry and livestock. (In Russian.) *Veterinariia* 25(10): 18-20. Oct. 1948. 41.8 V6426
- 36433 NORTHEASTERN STATES BRUCELLOSIS CONFERENCE, NEW YORK, 1949. Committee reports. Washington, 1949. 15 p. 41.9 N814
- 36434 PÉREZ FONTANA, V. Origen, desarrollo y extensión de la hidatidosis en América. *Ofic. Sanit. Panamer. B.* 28: 124-156. Ref. Feb. 1949. 449.9 P192B
- English summary.
- Biology of *Echinococcus granulosus* and its occurrence in man and livestock.
- 36435 PERUCHON DE BROCHARD, J. Dépistage et guérison de la coccidiose en Angleterre et aux États-Unis. *Paysan Franç.* 24(375): 5-6. Mar. 1949. 14 P29
- 36436 PESKOV, P. G. Universal steam generating equipment. (In Russian.) *Veterinariia* 25(8): 33-34. Aug. 1948. 41.8 V6426
- For sterilization of instruments and medical supplies.
- 36437 POLONIO, G. Foot-and-mouth disease on the Carso of Trieste, in a severe form. (In Italian.) *Nuova Vet.* 24: 351-352. Oct. 15, 1948. 41.8 N922
- 36438 PRIETO, C. Biopsia. Buenos Aires. *Cent. de Estud. de Med. Vet. Rev.* 17(26): 43-47. Apr./June 1948. 41.9 B86
- 36439 RANGIER, M., TRAVERSE, P. M. DE, and BONVALLET, M. Utilisation des pentoses par l'organisme animal. *Soc. de Chim. Biol. B.* 30: 583-592. Ref. Sept./Oct. 1948. 383 So1
- 36440 REMLINGER, P., and BAILLY, J. Essai d'une nouvelle théorie pathogénique de la rage. *Inst. Pasteur d'Algérie, Arch.* 26: 391-393. 1948. 448.3 In7A
- 36441 RICE, T. B. Brucellosis a menace to the health of veterinarians. *Norden News* 23(2): 6, 8. Mar./Apr. 1949. 41.8 N75
- 36442 RICHOU, R., GROULADE, P., and GERBEAUX, C. L'utilisation des "complexes antagonistes" en thérapeutique vétérinaire. *Acad. Natl. de Méd. B.* 132: 533-535. Oct. 19/26, 1948. 448.9 P21
- 36443 RICO, C. La estreptomycin en medicina veterinaria. Buenos Aires. *Cent. de Estud. de Med. Vet. Rev.* 17(26): 71-73. Apr./June 1948. 41.9 B86
- 36444 ROBERTS, C. S. Diagnostic notes. Auburn Vet. 5: 73-74, 84. Winter 1949. 41.8 Aul
- Activities at Alabama State Veterinary Diagnostic Laboratory.
- 36445 SALVADOR, A. R. N. Microbes and diseases. (In Portuguese.) *Vida Agr.* [Lisboa] 11(67): 7. Sept./Oct. 1948. 15.5 V66
- In animals and man.
- 36446 SALVADOR, A. R. N. The steer and the goat. (In Portuguese.) *Vida Agr.* [Lisboa] 10(63): 6-7. Jan./Feb. 1948. 15.5 V66
- Chiefly on diseases.
- 36447 SANDERSON, C. J. Johne's disease must not be allowed to get a hold here. *Land* [Sydney] 1951, i. e. 1941: 19. Jan. 14, 1949. 23 L22
- 36448 SERANTONI, D. Provincial diagnostic centers. (In Italian.) *Prog. Vet.* 3: 333-334. Oct. 15, 1948. 41.8 P942
- Italy.
- 36449 SERS, J. Dans votre cour de ferme, prévoyez un pédiluve. *Rustica* 22: 127. Feb. 13, 1949. 14 R92
- For disease prevention in livestock.
- 36450 SHAW, E. B. Mexico's foot-and-mouth disease problem. *Econ. Geog.* 25(1): 1-12. Jan. 1949. 278.8 Ec7
- 36451 SIEH, C. H. A brief history of the veterinary science in China. *Vet. Med.* 43: 454-458. Nov. 1948. 41.8 M69
- 36452 SIMEONE, D. H. Antígeno glúcido-lípido. Buenos Aires. *Cent. de Estud. de Med. Vet. Rev.* 17(26): 29-31. Apr./June 1948. 41.9 B86
- 36453 SIMONPIETRI, R. H. Enfermedades que atacan en el verano a los animales domésticos. *Chacra* 19(220): 96-97. Feb. 1949. 9 C34
- 36454 SKRĀBIN, K. I., and SHIKHOBALOVA, N. P. Filarii zhivotnykh i cheloveka [Filaria of animals and man]. Moskva, Sel'khozgiz, 1948. 608 p. (Biblioteka po Gel'mintologii) 436 Sh6F
- 36455 SOLOMKIN, P. S. In regard to the epizootiology of Aujeszky's disease. (In Russian.) *Veterinariia* 25(6): 23. June 1948. 41.8 V6426
- 36456 SPÖRRI, H. Hormontherapie in der veterinärmedizin. *Z. f. Vitamin- Hormon- u. Fermentforsch.* 2: 292-352. Ref. 1948/49. 384 Z324
- 36457 SPÖRRI, H. Zur physiopathologie der oedementstehung. *Tierärztl. Umschau* 3: 238-242. Ref. Aug. 1948. 41.8 T445
- 36458 STEELE, J. H. Veterinary public health. *North Amer. Vet.* 30: 152-155. Mar. 1949. 41.8 N812
- 36459 STEIN, C. D. Incidence of anthrax in livestock during 1945, 1946, and 1947 with special reference to control measures in the various states. *Vet. Med.* 43: 463-469. Nov. 1948. 41.8 M69
- 36460 STOLTZ, E. H. Let's clean up our herds; much has been done with Bang's disease and T.B., but the job has not been completed. *Farmer's Mag.* 46(2): 37-38. Feb. 1949. 7 C165
- 36461 THIES, W. M. Store building converted to veterinary hospital. *Vet. Med.* 43: 480. Nov. 1948. 41.8 M69
- 36462 U. S. BUR. OF ANIMAL INDUSTRY. Comparative record of brucellosis eradication work, fiscal years 1935 to 1948, inclusive. Washington? 1949? 4 p. 1.972 A2C73



- 36463 U. S. BUR. OF ANIMAL INDUSTRY. Increasing the security of the United States from foot-and-mouth disease through research; a description of prospective facilities, safeguards, projects and services to the community and the Nation. Washington? 1949. 16 p. 1.972 A2In22
- 36464 U. S. BUR. OF ANIMAL INDUSTRY. Phenothiazine for the control of livestock parasites, by A. O. Foster and F. D. Enzie. Washington? 1949. 9 p. 1.972 Z2P523
- 36465 U. S. CONGRESS. SENATE. COMMITTEE ON APPROPRIATIONS. Control of foot-and-mouth disease. Report of special subcommittee. 80th Cong., 2d sess., S. Doc. 211, 20 p. 1948. 41 Un37Co
- 36466 U. S. S. R. GOSUDARSTVENNY NAUCHNO-KONTROL'NYI INSTITUT VETERINARNYKH PREPARATOV. Biologicheskie i khimioterapevticheskie veterinarnye preparaty [Biological and chemotherapeutic veterinary preparations]. Moskva, Sel'khozgiz, 1948. 534 p. 41 Un314
- 36467 VAITSMAN, J. The practice of vaccination in herds. (In Portuguese.) Lav. Arroz. 2(23): 23-24. Nov. 1948. 59.8 L39
- 36468 VALDES ORNELAS, O., and GARCIA G., A. M. Ensayo de una bacterina para la prevencion de la brucelosis en animales de laboratorio. Mex. Esc. Nac. de Cien. Biol. An. 5: 39-53. Ref. Nov. 15, 1948. 442.9 M573
- English summary.
- 36469 VIANELLO, G. The application of sulfamides in apoplectic apthas. (In Italian.) B. dell'Agr. 82(15): 2. July 16, 1948. 16 B87
- 36470 VIANELLO, G. Trichomoniasis (precocious abortion). (In Italian.) Campagna 47: 351-352. Dec. 31, 1948. 16 C152
- 36471 VIDAL MUNNE, J. Divagaciones sobre la lucha antirrábica. Veterinaria 12: 829-838. Dec. 1948. 41.8 V6429
- 36472 VIL'NER, A. M. Kormovye otravleniya sel'skokhozyaistvennykh zhivotnykh [Feed poisoning of farm animals]. Moskva, Sel'khozgiz, 1948. 267 p. 391 V712
- 36473 VIRGINIA. COMMISSION TO STUDY THE ADVISABILITY OF ESTABLISHING A SCHOOL OF VETERINARY MEDICINE. School of veterinary medicine. Report to the Governor and the General Assembly of Virginia. Richmond, 1948. 8 p. 41 V813
- 36474 VOSKRESENSKIĬ, V. K. Tracheotomy without a cannula. (In Russian.) Veterinariia 25(6): 37-39. June 1948. 41.8 V6426
- 36475 WILSON, S. G. Trypanosoma uniforme-Trypanosoma vivax infections in bovines and Trypanosoma uniforme infections in goats and sheep at Entebbe, Uganda. Parasitology 39: 198-208. Feb. 1949. 448.8 P21
- 36476 WOLFSTELLER, W. Estudio sobre la modificación del epitelio vaginal en vacas y yeguas sin servicio y gestantes. Buenos Aires. Cent. de Estud. de Med. Vet. Rev. 17(26): 9-14. Ref. Apr./June 1948. 41.9 B86
- 36477 WYOMING. LIVESTOCK AND SANITARY BD. Eighth biennial report, 1946/1948. Cheyenne, 1948. 19 p. 41.9 W992
- 36478 ZAITSEVA, A. G. Poisoning of domestic animals with insecticides and fungicides and prevention of such poisonings. (In Russian.) Veterinariia 25(8): 35-39. Aug. 1948. 41.8 V6426
- 36479 ZANOLINI, G. Water and chatter make no fritters! (In Italian.) Prog. Vet. 3: 308. Oct. 1, 1948. 41.8 P942
- On veterinary conferences.
- 36484 AVENDAÑO B., F. El animal de doble fin y el especializado. Agr. Austral 14: 7490. Nov. 1948. 9.3 Ag842
- Chile.
- 36485 BABIN, W. M. The 1949 Louisiana State University livestock show. Gulf Coast Cattleman 14(12): 10, 12. Feb. 1949. 43.8 C63
- 36486 BERNARD, E. L'importance et les possibilités de l'élevage. Bas-Rhin Agr. 4: 76. Feb. 12, 1949. 14 B29
- 36487 BERTL, H. Die niederösterreichische tierzucht zur jahreswende. Landwirtschaft 1948: 346-350; 1949: 12-14. Dec. 20, 1948, Jan. 22, 1949. 19 L235
- 36488 BICKET, M. Lawton, Oklahoma F.F.A. members improve their livestock. Agr. Ed. Mag. 21: 212, 214. Mar. 1949. 275.8 Ag8
- 36489 BONADONNA, T. Comments on the necessity of experimentation in Italy. (In Italian.) Allevatore 4 (41): 3. Oct. 10, 1948. 49 AL55
- 36490 DÍAZ, L. El mejoramiento de la ganadería. Cooperación 7(80): 14-15. Oct. 1948. 280.28 C7875
- 36491 GAY, C. W. The International—the stockman's thrill; the benefits derived from participating either as an exhibitor or an observer are far reaching in ultimate effects. Shorthorn World 33(16): 7-8, 24-25. Nov. 10, 1948. 43.8 Sh8
- 36492 GRAVES, J. K. 'Smitty'—the stock grower's photographer. West. Farm Life 51(1, Sect. 2. Ann. Livestock Rev. 1949): 16, 28, 30-31. Jan. 1, 1949. 6 R153
- 36493 JIMÉNEZ ARRECHEA, S. El lenguaje entre el hombre y los animales. Rev. Agr. y Ganad. 10(109): 8-9. Nov. 1948. 9.4 R327
- 36494 JUDGE, W. Suggestions for training your livestock judging teams. Better Farming Methods 21(4): 18, 32-33. Apr. 1949. 58.8 B46
- 36495 LA FORGE, O. DE. Ou en est le cheptel français. Monit. Agr. 1(50/51): 10. Dec. 25, 1948/Jan. 1, 1949. 14 M744
- 36496 LASNIER-LACHAISE, L. L'élevage du Bas-Rhin. Bas-Rhin Agr. 4: 73-74. Feb. 12, 1949. 14 B29
- 36497 LIGUORI, F. For the latest developments of domestic animal industry. (In Italian.) Mezzogiorno Agr. 5(5): 1-2. Jan. 30, 1949. 16 M57
- 36498 NAPRSTEK, J. Prerequisites and conditions for planning in animal industry. (In Czech.) Českoslov. Akad. Zeměděl. Vest. 22: 514-520. Dec. 15, 1948. 19.5 C332
- Russian summary.
- 36499 PROULX, J. R. Aucune raison de bouleverser notre mode présent de production animale. Terre de Chez Nous 21(17): 11. Jan. 19, 1949. 7 T27
- 36500 SIMMS, B. T. Review of work done by the Bureau of Animal Industry. Black Fox Mag. 32(11): 16, 34. (To be cont.) Mar. 1949. 410 B56
- 36501 SMITH, A. M. Kings County re-embraces livestock. Calif. Farmer, South. Ed. 190: 100. Jan. 29, 1949. 6 C126A
- 4-H Club projects.
- 36502 VENEZUELA. DIRECCIÓN DE GANADERÍA. Cartilla ganadera, por el Dr. P. Llamozas González. Ed. 3, rev. and enl. Caracas, Impr. Nacional, 1948. 137 p. 40 V552C
- 36503 ZELLER, J. Ueber abhärtung unserer haustiere. Allgäuer Bauernbl. 16: 335-336. Dec. 24, 1948. 18 AL53

## CATTLE

## Breeds and Breeding

- 36504 ASDELL, S. A. Sterility in dairy cattle. Amer. Agr. 146: 100, 108, 137-138. Feb. 19, Mar. 5, 1949. 6 Am3
- 36505 ASSOCIATION FOR THE BREEDING OF SWEDISH RED AND WHITE CATTLE. Swedish Red and White cattle. Stockholm, 1948. 24 p. 43 As72
- 36506 AZEVEDO, R. B. DE. Importation of Brown Swiss cattle [into Brazil]. (In Portuguese.) Campo [Rio de Janeiro] 19(227/228): 21. Nov./Dec. 1948. 9.2 C15
- 36507 BAILEY, J. W. Bulls and breeding. Better play it safe and be a bit careful about overworking that valuable herd sire! Guernsey Breeders' J. 75: 690, 695. Mar. 1, 1949. 43.8 G93
- MISCELLANEOUS
- 36480 ABRAMOV, S. A. Pamiatka pastukha [Herdsman's handbook]. Moskva, Sel'khozgiz, 1948. 71 p. 40 Ab8
- 36481 AGUILO MERCADER, R. Zooprofilaxis ganadera. Balearic Isl. Diputación Prov. B. de Agr. 51: 10-13. Dec. 1948. 15 B19
- 36482 ALIKAEV, V. A. Hygiene of winter care of farm animals. (In Russian.) Veterinariia 25(10): 16-17. Oct. 1948. 41.8 V6426
- 36483 AMSCHLER, J. W. Grundlegende fragen der österreichischen tierzucht. Kärntner Bauer 98: 349-351. (Concl.) Nov. 1, 1948. 19 K14



- 36508 BALL, E. M. Record of Frisian cattle. (In Italian.) *Allevamenti nel Mondo* 28: 162-163. July/Aug. 1948. 49 AL56
- 36509 BARBA, A. DELLA. New standards for judging bulls. (In Italian.) *Agr. Bresciana* 11(6): 1-2. Feb. 9, 1949. 16 Ag89
- 36510 BATES, A. G. Co-operative line breeding. *Hoard's Dairyman* 94: 232-234. Mar. 10, 1949. 44.8 H65  
Dairy cattle.
- 36511 BENETTI, P. Brown Swiss, Holstein-Friesian, and values. (In Italian.) *Agr. Bresciana* 2(5): 2. Feb. 2, 1949. 16 Ag89
- 36512 BENZONI, C. Contribution to the study of the bovine race-population "Modicano x Sarda." Biometrical inquiry in the variability of the principal somatic measurements of adult cattle (Recapitulatory note 2). (In Italian.) *Zootec. e Vet.* 3: 492-502. Aug. 1948. 41.8 Z7  
English summary.
- 36513 BENZONI, C. Contribution to the study of the bovine race-population "Modicano x Sarda." Observations on the differences of variability in the principal somatic measurements in adult castrated male cattle and in adult females. (Recapitulatory note 3). (In Italian.) *Zootec. e Vet.* 3: 553-559. Sept. 1948. 41.8 Z7  
English summary.
- 36514 BETTINI, T. M. Criteria for the genotypic evaluation of sires. (In Italian.) *Allevatore* 4(43): 3. Oct. 22, 1948. 49 AL55  
Cattle.
- 36515 BETTINI, T. M. Evaluation of morphological and functional data in the selection of progeny. (In Italian.) *Allevatore* 4(43): 3-4. Oct. 22, 1948. 49 AL55  
Cattle.
- 36516 BLIN, H. Les Charollais, élite de notre production bovine. *Rustica* 22: 97. Jan. 30, 1949. 14 R92
- 36517 BORGIOLI, E. Criteria for the morphological evaluation of sires. (In Italian.) *Allevatore* 4(43): 7. Oct. 22, 1948. 49 AL55  
Cattle.
- 36518 BORGIOLI, E. The selection of dual purpose races from the genetic and physiological point of view. (In Italian.) *Allevatore* 4(43): 1-2. Oct. 22, 1948. 49 AL55
- 36519 BOWLING, G. A. Let's not blame the classification rules. *Ayrshire Digest* 35: 208-209, 228. Mar. 15, 1949. 43.8 Ay7
- 36520 BUNCE, E. W. Guernsey cattle numbers are on upward trend in sure crop area. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 172. Jan. 1, 1949. 6 R153
- 36521 CAMERON, J. A. Hill cattle. Highland and Agr. Soc. Scot. Trans. (Ser. 5) 60: 48-57. 1948. 10 H536  
Highland and Galloway cattle and their crosses.
- 36522 CANADIAN AYRSHIRE BREEDERS' ASSOCIATION. The Canadian Ayrshire herd book. Ottawa, 1948. v. 56, 470 p. 43.9 C162C
- 36523 CASARES HERRERO, E. El toro y las ganaderías de reses bravas. III. *Ceres* [Valladolid] 14: 14. Jan. 1949. 15 C33
- 36524 CHENG, P., CASIDA, L. E., and BARRETT, G. R. Effects of dilution on motility of bull spermatozoa and the relation between motility in high dilution and fertility. *J. Anim. Sci.* 8: 81-88. Ref. Feb. 1949. 49 J82
- 36525 CHITTENDEN, D. W. Polled Herefords set new records. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 125-126. Jan. 1, 1949. 6 R153
- 36526 COLETTI, C., VOLPINI, E., and TORNAR, F. The improvement of the Marchigiana breed of cattle. (In Italian.) *Allevatore* 4(43): 8. Oct. 22, 1948. 49 AL55
- 36527 CONNELLY, R. G. The dairy herd replacement problem and its solution. *Va. Dairyman* 10(1): 1-3. Jan./Feb. 1949. 44.8 V81
- 36528 CRAM, B. Controverse à propos de la dénomination de la race Schwitz, officiellement appelée en France race Brune des Alpes. *Unité Paysanne* 3(164): 2. Dec. 25, 1948. 14 Un3
- 36529 CRAM, J. S. Feed is half the battle; obscure breeding troubles can be most easily overcome by strict attention to proper feeding, from birth to age. *Family Herald & Weekly Star* 80(5): 7. Feb. 2, 1949. 7 F21  
Sterility in dairy cattle.
- 36530 CRAPLET, C. La sélection laitière. France. Min. de l'Agr. B. Tech. d'Inform. 33: 501-512. (To be cont.) Oct. 1948. 14 F844B
- 36531 CRUICKSHANK, A. The Shorthorns of Scotland, Sittyton letters, 1873 to 1891. Edinburgh, Scottish Shorthorn Breeders' Assoc., 1948. 103 p. 43 C88
- 36532 CUMMINGS, R. J. Western Shorthorn group plans expanding future. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 157, 160. Jan. 1, 1949. 6 R153
- 36533 CUSHMAN, J. E. Development of Guernseys in Chester County [South Carolina]. *Agrarian* 8(2): 7, 20. Jan. 1949. 276.8 Ag8
- 36534 DALGAS, F. A great breeding center of the Maremmiana breed of cattle; the estate of Grancia di Montepescali in Grosseto Province. (In Italian.) *Riv. di Zootec.* 21: 308-316. Oct. 1948. 49 R52
- 36535 DAY, G. E. Loyalty to a cause implies your best. The Shorthorn breeder must be on his toes ready to take advantage of every opportunity to further the interests of his breed if he would keep abreast with his competitors. *Shorthorn World* 34: 7-8. Mar. 10, 1949. 43.8 Sh8
- 36536 DIAS, E. C. Caracú cattle under the stall system. (In Portuguese.) *Rev. Ceres* 7: 376-382. June/Sept. 1948. 9.2 C332
- 36537 ERB, R. E., and SHAW, A. O. Breeding failures in Washington. *Hoard's Dairyman* 93(21): 839. Nov. 10, 1948. 44.8 H65
- 36538 ERDMANN, F. The Holstein cattle breed in Argentina. (In Friesian.) *Friesch Landbouwsblad* 46(5): 66. Feb. 4, 1949. 12 F91
- 36539 ERIKSSON, O. N. Noted bulls of Swedish Red polled stock. (In Swedish.) *Skand. Kreatursförsäkringsbolaget. Månadsblad* 27: 3-5, 19-21. Jan.-Feb. 1949. 49.9 Sk1
- 36540 FERRARI, E. Improvement of the Brown Swiss breed. (In Italian.) *Agr. Bresciana* 2(4): 1. Jan. 26, 1949. 16 Ag89
- 36541 FERRARI, E. Raising cattle of the Brown Swiss, Holstein-Friesian, and Carnation breeds in Milan province. (In Italian.) *Riv. di Zootec.* 21: 385-389. Dec. 1948. 49 R52
- 36542 FERRARI, E. Registry books and breeding bulls. (In Italian.) *Agr. Bresciana* 2(5): 2. Feb. 2, 1949. 16 Ag89
- 36543 FORBES, R. C. Galloways naturally adapted to life on worthless land. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 128. Jan. 1, 1949. 6 R153  
Beef cattle.
- 36544 GALLINA, L. Dutch (Holstein-Friesian) or Brown Alpine (Brown Swiss) races? (In Italian.) *Allevamenti nel Mondo* 28: 148-149. July/Aug. 1948. 49 AL56
- 36545 GARRIS, E. W. Program for improving beef cattle. *Agr. Ed. Mag.* 21: 190. Feb. 1949. 275.8 Ag8
- 36546 GAY, C. W. Breed advertising extraordinary. Hereford Association's new magazine program backed by sound logic—it does a selling job for Herefords in new field. *Amer. Hereford J.* 39(21): 46. Mar. 1, 1949. 43.8 Am32
- 36547 GAY, C. W. The ultimate purpose of pure-breeds; breeding regulates the progeny by controlling the parentage to attain improvement, but potential possibilities become actualities only at the hands of the feeder. *Shorthorn World* 33(22): 9-10, 20-21. Feb. 25, 1949. 43.8 Sh8
- 36548 GAYDEN, H. Brahmins are big business. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 18, 149, 152. Jan. 1, 1949. 6 R153
- 36549 GIULIANI, R. Improvement of dual purpose breeds of cattle, and unification of selective criteria. (In Italian.) *Riv. di Zootec.* 21: 372-384. Dec. 1948. 49 R52
- 36550 GRAF, G. C. Artificial breeding in Virginia. *South. Planter* 109(11): 18-19. Nov. 1948. 6 So89  
Dairy cattle.
- 36551 HAGEDOORN, A. L. The case for "nucleus" herds; closed herds of pure-bred cattle which can provide guaranteed bull calves are a vital necessity for a successful national livestock policy. *Farmers Weekly* [London] 30(8): 45, 47. Feb. 25, 1949. 10 F2226



- 36552 HALL, H. W., DICKEY, H. C., and SHAW, A. O. Selecting a dairy bull. *Maine. Agr. Expt. Sta. B.* 461, 41 p. Nov. 1948. 100 M28S
- 36553 HARDIN, L. S., and PFENDLER, D. C. Beef breeding in the Cornbelt. *Successful Farming* 47(2): 45, 130-132. Feb. 1949. 6 Su12
- 36554 HERWIG, W. E. Selecting the dairy herd sire. *Rural New-Yorker* 99: 138, 140. Feb. 19, 1949. 6 R88
- 36555 HINDMARSH, W. L. The artificial insemination of stock, particularly dairy cows. *Live Stock B.* 42: 38, 39. Dec. 1, 1948. 23 F222
- 36556 HOELZER, H. Aus der arbeit einer besamungsstation für rinder; gute befruchtungsergebnisse—erfolgreiche unfruchtbarkeitsbekämpfung. *Land Wald u. Gart.* 3: 157-159. July 1948. 18 L22
- 36557 HOWARD, D. Shorthorn qualities supreme on Australia's Outback. *Shorthorn World* 33(22): 56. Feb. 25, 1949. 43.8 Sh8
- 36558 HUITEMA, H. Artificial insemination. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 443-448. Ref. Dec. 1948. 41.8 V51  
In cattle.
- 36559 HULTINE, A. The question of weight-for-age. *Shorthorn World* 33(21): 81. Feb. 10, 1949. 43.8 Sh8
- 36560 HUNTER, A. G. The oul' breed. *Cattleman* 36(6): 23-24. Nov. 1948. 49 C29  
Kerry cattle in Ireland.
- 36561 HYATT, G., JR., and TYLER, W. J. A stronger approved sire program. *Ayshire Digest* 35: 138, 202, 205. Mar. 15, 1949. 43.8 Ay7
- 36562 KATTERJOHN, M. M. Insemination's quadruplet calves. *Ind. Farmers Guide* 105(3): 21. Feb. 1, 1949. 6 In2
- 36563 KILDEE, H. H. What is a good Angus? *Country Gent.* 119(3): 24-25, 124-126. Mar. 1949. 6 C833  
Aberdeen-Angus beef cattle.
- 36564 KÖRBER, F. Die rinderrassenfrange in Kärnten. *Kärntner Bauer* 99: 27-33, 52-57. Feb. 1-15, 1949. 19 K14
- 36565 KÖRPRICH, H. Die bedeutung von kuhfamilien und ihre bewertungsmöglichkeit. *Tierzucht* 2: 145-150. Oct. 1948. 49 T443
- 36566 LAIZET. Monographie de la race bovine tarentaise née et élevée en Algérie. *Colon Franç. de Tunisie* 59(2085): 3-4. Feb. 5, 1949. 24 C712
- 36567 LETARD. L'élevage de la race bovine Normande en Colombie. *Acad. d'Agr. de France. Compt. Rend.* 34: 991-994. Dec. 8/22, 1948. 14 P215Bc
- 36568 LIEBENBERG, O. Wirkt sich die künstliche besamung nachteilig auf die entwicklung der kälber aus? *Tierzucht* 2: 130-134. Sept. 1948. 49 T443
- 36569 MARTIN, R. G. Pan American Zebu Ass'n promotes improvement. *Tex. Livestock J.* 8: 54, 56. Jan. 15, 1949. 49 T29
- 36570 MEAD, S. W. Dairy cattle; inheritance of growth, reproduction and milk production characteristics. *Calif. Agr. [Calif. Sta.]* 3: 6. Jan. 1949. 100 C12Cag
- 36571 MEAD, W. H. T. Some recent developments in artificial insemination. *Canad. Cattleman* 11: 184-185. Mar. 1949. 49 C16
- 36572 MONSARRO, F. B. Dairy breeds in the economy of Rio Grande do Sul. (In Portuguese.) *Rio Grande do Sul. Sec. da Agr. Indús. e Com. Inform. Rural* 1(5/6): 17. May 1948. 9.2 R4741
- 36573 MORO, M. Artificial insemination of cattle. (In Italian.) *Rinascita Agr.* 3(11): 2. Apr. 1, 1948. 281.8 R47
- 36574 ODLUM, G. M. Talk as you like about "the average cow" or "the average bull"—there's no such animal. *Farmers Weekly [London]* 30(3): 41. Jan. 21, 1949. 10 F2226  
Constructive breeding.
- 36575 OERS, VAN. Bulls for artificial insemination. (In Dutch.) *Stamboeker* 30: 117-118. Dec. 9, 1948. 43.8 V58
- 36576 OPPERMAN, G. Popularity of Brown Swiss causes expansion of breed. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 178. Jan. 1, 1949. 6 R153
- 36577 ORR, C. Nebraska research seeks to improve cattle by breeding. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 152. Jan. 1, 1949. 6 R153
- 36578 PESCE, P. A. Large-rumped cattle. (In Italian.) *B. dell'Agr.* 82(2): 2. Jan. 18, 1948. 16 B87
- 36579 PORZIO, G. Selection of Brown Swiss: on transferring plains cattle to the mountains. (In Italian.) *Allevatore* 4(46): 4. Nov. 14, 1948. 49 AL55
- 36580 PRANGE, C. Wie lässt sich die zuchttauglichkeit der bullen verlängern? *Neue Mitt. f. die Landw.* 3: 377. Nov. 5, 1948. 18 N39
- 36581 PRINCE, P. W., and ALMQUIST, J. O. Agitation of diluted bull semen is found to affect life of spermatozoa. *Sci. Farmer [Pa. Sta.]*, 1949: 5. Mar. 1949. 100 P381
- 36582 RAUSING, R. Artificial insemination. (In Swedish.) *Lantmannen* 33: 114-115. Feb. 12, 1949. 11 L234  
Cattle.
- 36583 REED, O. E. Artificial breeding speeds DHIA. *South. Planter* 109(11): 42. Nov. 1948. 6 So89
- 36584 RICH, L. G. Improving your dairy herd by artificial breeding. *Utah Farmer* 68(10): 22, 23, 28. Jan. 8, 1949. 6 D45
- 36585 RICHARDS, F. Angus make record expansion. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 141, 146. Jan. 1, 1949. 6 R153  
Aberdeen-Angus beef cattle.
- 36586 RICHARDS, F. 1948 progressive year for Angus. *Gulf Coast Cattleman* 14(12): 24. Feb. 1949. 43.8 C63
- 36587 RINGLER, E. Die sammelkörungen 1948 in den landkreisen Flüssen und Kaufbeuren. *Allgäuer Bauernbl.* 17: 31. Jan. 21, 1949. 18 AL53  
Bulls.
- 36588 ROF CODINA, J. La raza bovina gallega rubia. *Cult. Mod.* 31: 410. Nov. 1948. 15 C89
- 36589 ROHLFES. Zur stammbullenschau im Emsland. *Landwirtschaftsblatt Weser-Ems* 95: 276-277. Dec. 10, 1948. 18 L2345
- 36590 ROSS, D. Hereford blood proves its power in South Africa. *Amer. Hereford J.* 39(21): 50. Mar. 1, 1949. 43.8 Am32
- 36591 SACKVILLE, J. P. Utility—the measure of a breed. *Canad. Cattleman* 11: 206-207. Mar. 1949. 49 C16  
Aberdeen-Angus cattle.
- 36592 SALOMON, A. La race bovine vosgienne. *Bas-Rhin Agr.* 4: 81-82. Feb. 12, 1949. 14 B29
- 36593 SCHAEFER, W. F., JR. Handling bulls for artificial breeding. *Hoard's Dairyman* 94: 16-17. Jan. 10, 1949. 44.8 H65
- 36594 SENGER, M. E. Maryland D.H.I.A. herd shows improvement through breeding. *Md. Farmer* 33: 22. Jan. 1949. 6 M362
- 36595 SEVERSON, H. How to settle more cows through artificial breeding. *Successful Farming* 47(2): 138-140. Feb. 1949. 6 Su12
- 36596 SHARRAH, A. R., BAKER, G. N., and RUMERY, M. G. Meat production with Holstein steers: a progress report (November 1948). *Holstein-Friesian World* 46: 518, 530. Mar. 19, 1948. 43.8 H742
- 36597 SIGNORI, A. In behalf of montanara cattle. (In Italian.) *Agr. Romagn.* 24: 3. Dec. 20, 1948. 16 Ag828
- 36598 SIRRI, A. Increase of Romagnola cattle in Padua. (In Italian.) *Agr. Romagn.* 24: 1. Dec. 20, 1948. 16 Ag828
- 36599 SØRENSEN, E. Veterinary anatomy and physiology including artificial insemination. In *The humanities and the sciences in Denmark*, p. 549-551. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882  
Cattle.
- 36600 STAFFORD, J. Numerosas razones explican la popularidad de las vacas de raza Jersey. *Res* 17: 23251. Jan. 20, 1949. 286.85 R31
- 36601 STANCHINA, A. The selection of the Brown race. (In Italian.) *Allevatore* 4(45): 1. Nov. 7, 1948. 49 AL55  
Brown Swiss cattle.
- 36602 STRINGHAM, E. W. A blue print for cattle breeders; though we have the finest beef producing cattle in the world we must continue to seek improvement lest we retrogress. *Shorthorn World* 33(22): 79-80. Feb. 25, 1949. 43.8 Sh8



36603 TAYLOR, B. R. It was a great year for Herefords. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 27, 29. Jan. 1, 1949. 6 R153

36604 TAYLOR, B. R. Pounds, progress, profit. Herefords in Louisiana. Gulf Coast Cattleman 14(12): 17-18. Feb. 1949. 43.8 C63

36605 TELFER, A. W. Sale development—western Guernsey classic averages reflect quality, breed popularity. Western Dairy J. 5(4): 14, 42. Feb. 1, 1949. 44.8 W524

36606 TOMSON, C. K. Range trends is to Short-horns. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 155-156, 160. Jan. 1, 1949. 6 R153

36607 TOSETTI, V. Still on the question of selection of Brown Swiss. (In Italian.) Allevatore 4(41): 5. Oct. 10, 1948. 49 AL55

36608 TURK, K. L. Proved sires ring the bell. Dairymen's League News 33(5): 6-7. Mar. 8, 1949. 44.8 D1432

36609 VAESSEN. Black and White breeding in South-Limburg. (In Dutch.) Stamboek 30: 118. Dec. 9, 1948. 43.8 V58

36610 VAITSMAN, J. How to raise a bovine champion. (In Portuguese.) Lav. Arroz. 2(22): 25-26. Oct. 1948. 59.8 L39

36611 VAUGHAN, W. J. Choosing a herd bull. Tex. Livestock J. 8: 51. Jan. 15, 1949. 49 T29

36612 VIANELLO, G. Sanitary rules in the acquisition of bulls. (In Italian.) Humus 4(12): 17-18. Dec. 1948. 16 H88

36613 WADLEIGH, A. G. Dairying invites the enterprising Valley farmer. San Luis Val. Farmer & Stockman 3(6): 3-4, 14-15. Feb. 1949. 6 Sa52  
Chiefly breeds and care.

36614 WEBER, A. D. Time to adjust cattle breeding to a new basis featuring efficiency and soundness. Amer. Hereford J. 39(22): 40, 42, 112-113. Mar. 15, 1949. 43.8 Am32

36615 WENTWORTH, E. N. The application of genetics to beef cattle breeding. Primary Prod. [Sydney] 25(49): 13, 14. Dec. 17, 1948. 23 P93

36616 WOLF. Die stierhaltung ist gefährdet! Allgäuer Bauernbl. 16: 339. Dec. 24, 1948. 18 AL53

36617 WOLFE, A. M. One bull can't do it all. Holstein-Friesian World 46: 526, 614, 616. Mar. 19, 1949. 43.8 H742

Herd improvement.

36618 WURM, R. Advertising your Jersey herd. Jersey B. 68: 326, 328, 373-375. Mar. 10, 1949. 43.8 J48

36619 YUILL, W. J. Coodardy Jerseys soundly bred. Austral. Farm & Home 57(12): 78, 81. Dec. 1, 1948. 23 Au7

36620 ZAŁĘSKA, J. Pedigree herd of lowland black-and-white cattle in Debowice. (In Polish.) Przegl. Hodowlany 16: 350-360. Nov./Dec. 1948. 49 P952

36621 ZEBU-cross cattle in northern Australia. Observations in Queensland—progress report no. 6. Brahman Breeder-Feeder 15(3): 7-8, 10-13. Mar. 1949. 43.8 B73

#### Feeds and Feeding

36622 ALLEN, N. N. Feed all the colostrum. Hoard's Dairyman 93(21): 805, 831. Nov. 10, 1948. 44.8 H65

36623 ARNOULD, C. Pour avoir du bon lait. Monit. Agr. 1(50/51): 9. Dec. 25, 1948/Jan. 1, 1949. 14 M744  
Plants affecting milk production.

36624 BENNETT, T. S. Feeding dried grass. Dairy Farmer [Ipswich] 22(2): 16-17. Feb. 1949. 44.8 D1414

36625 BLIN, H. Produit d'un hectare de fourrage en viande, lait et force motrice. Monit. Agr. 2(58): 2. Feb. 20, 1949. 41 M744

On milk production of cattle.

36626 BOHSTEDT, G. New trends in feeding dairy cattle. Feedstuffs 21(10): 46, 48-49. Mar. 5, 1949. 286.81 F322

36627 BOTTAZZI, A. Rational feeding of dairy cows. (In Italian.) Avvenire Agr. 56: 317-319. Dec. 1948. 16 Av9

36628 BRADT, C. G. Growing good calves with less milk; suggestions given. East. Milk Prod. 24(12): 7, 14-15. Dec. 1948. 280.28 Sh3

36629 BRANAMAN, G. A. Right price and good feeding count in fattening steers. Mich. Farmer 211: 77, 104. Feb. 5, 1949. 6 M58

36630 BROWN, L. Sweetpotatoes fed to dairy cows in study at Northeast Branch Station. Miss. Farm Res. [Miss. Sta.] 11(12): 7. Dec. 1948. 100 M69Mi

36631 BRÜGGEMANN, H. Der mineralstoffhaushalt des milchviehes. Landw. Wchnbl. f. Westfalen u. Lippe 106: 113-114. Feb. 12, 1949. 18 L2346

36632 BURROUGHS, W., and others. Further observations on the effect of protein upon roughage digestion in cattle. J. Anim. Sci. 8: 9-18. Feb. 1949. 49 J82  
P. Gerlaugh, B. H. Edgington, and R. M. Bethke, joint authors.

36633 BURROUGHS, W., and GERLAUGH, P. The influence of soybean oil meal upon roughage digestion in cattle. J. Anim. Sci. 8: 3-8. Ref. Feb. 1949. 49 J82

36634 CASALIS, C. E. M. The neglected mealie stalk. Farmer's Weekly [Bloemfontein] 76: 52-53, 55. Feb. 9, 1949. 24 F225

Corn fodder as winter feed for dairy cattle.

36635 CHESTER, R. D. Feeding the dairy cow. Queensland Agr. J. 67: 274-289. Nov. 1948. 23 Q33

36636 CROW, D. Save wet weather hay cuttings with wilted alfalfa silage. Western Dairy J. 5(4): 21, 32. Feb. 1, 1949. 44.8 W524

36637 CUNHA, T. J. Cattle rations—save those hard-earned dollars by supplying necessary minerals. West. Livestock J. 27(12): 82-84. Jan. 15, 1949. 6 F2278

36638 CUNHA, T. J., and GLASSCOCK, R. S. Lack of salt means cattle can't utilize food; urge free use by cattlemen. Fla. Cattleman 13(5): 20. Feb. 1949. 43.8 F66

36639 DAVIS, G. K. Influence of copper on development of cattle. Victory Farm Forum 34: 13-14. Mar. 1949. 281.8 F226

36640 DEIX, R. Les fautes alimentaires peuvent être à l'origine de maladies graves. J. de la France Agr. 5: 39. Jan. 28/Feb. 3, 1949. 14 J829  
Cattle.

36641 DINNING, J. S., BRIGGS, H. M., and GALLUP, W. D. The value of urea in protein supplements for cattle and sheep. J. Anim. Sci. 8: 24-34. Ref. Feb. 1949. 49 J82

36642 FISHER, M. But why cart it? Farmers Weekly [London] 30(6): 47. Feb. 11, 1949. 10 F2226  
Kale, cabbage, and rape as winter feed for dairy cattle.

36643 FOSTER, J. E. Silage for wintering beef herds. South. Planter 109(10): 26, 30. Oct. 1948. 6 So89

36644 GARRIGUS, W. P. Beef "U. S. Good," grass fed. Prog. Farmer, Car.-Va. Ed. 64(3): 86, 87. Mar. 1949. 6 P945

36645 GAUNT, S. N. What feeds should I buy? New England Homestead 122(3): 16. Feb. 12, 1949. 6 N442

Feed for dairy cattle.

36646 GILL, J. B. Winter grazing in South Mississippi. Miss. Agr. Expt. Sta. C. 134, rev., 13 p. Sept. 1948. 100 M69

Grazing experiments with cattle.

36647 GLEASON, H. Grass silage—an extra dividend from pasture that means an extra profit for western dairymen. West. Dairy J. 5(5): 21, 43. Mar. 1, 1949. 44.8 W524

36648 GOFF, F. Hormones for heifers? Purdue Agr. 40(4): 6, 16. Jan. 1949. 6 P97  
Effect on growth and fattening.

36649 GÓMEZ, J. F. Precauciones con los campos naturales de pastoreo. Hereford 15: 57. Feb. 1949. 43.8 H42

36650 GONZALEZ, A. DE J. Feeding dairy cattle. (In Portuguese.) Granja [Porto Alegre] 4(36/37): 31-34. Sept./Oct. 1948. 9.2 G76

36651 GRANT, E. C. Two good roughages for beef cows. East. Breeder 10(10): 63. Mar. 1949. 49 V81  
Mixed hay and corn silage.

36652 HEAD, T. P., and HOLLEY, A. L. Feeding dairy cows. Ark. Agr. Col. Ext. C. 453, 7 p. 1948? 275.29 Ar4

36653 HEINZL, O. Die winterfütterung des milchviehs. Grüne 76: 1327-1336. Dec. 10, 1948. 17 Sch9



- 36654 HERRMANN, H. -Der nutzeffekt in der rinderhaltung. *Allgäuer Bauernbl.* 17: 30. Jan. 21, 1949. 18 AL53
- 36655 HUGHES, C. E. Western [beef] cattle feeding. *Successful Farming* 47(2): 145-147. Feb. 1949. 6 Su12
- 36656 JARL, F. Results of new Swedish and foreign experiments in cattle feeding. (In Swedish.) Sweden. *Lantbrukshögsk. Husdjursförsöksanst. Särtryck och Förhandsmeddel.* 66: 346-372. 1948. 49.9 Up6
- 36657 LACEY, J. J. Too fat doesn't pay. *Equity Co-op. Livestock News* 14(1): 4. Jan. 1949. 280.28 Eq5  
Beef cattle feeding.
- 36658 LEVECK, H. H., and BARRENTINE, B. F. Study value of oats for wintering bred beef cows. *Miss. Farm Res.* [Miss. Sta.] 11(12): 1, 3. Dec. 1948. 100 M69Mi
- 36659 LOMBARDO, R. A. Engorde de novillos en praderas artificiales. Uruguay. *Min. de Ganad. y Agr. B. Inform.* 255: 11-12. Jan. 27, 1949. 9.9 G15B
- 36660 MALONEY, P. L. Baby beef feeding projects give 4-H members experience. *West. Farm Life* 51(1, Sect. 2, Ann. *Livestock Rev.* 1949): 110, 112. Jan. 1, 1949. 6 R153
- 36661 MONTGOMERY, G. A. Cheapest way to make milk. *Capper's Farmer* 60(3): 16, 35. Mar. 1949. 6 M693  
Feeding grass, silage and hay.
- 36662 MURARI, T. Raising calves with soyabeans milk. *Madras Agr. J.* 35: 374-378. Dec. 1948. 22 M262
- 36663 NIBLER, C. W. Do your cows need minerals. *Nebr. Farmer* 91(3): 22, 23. Feb. 5, 1949. 6 N27
- 36664 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. The feeding of dairy cows. North. Ireland. *Min. Agr. Leaflet* 16, 13 p. Jan. 1949. 10 N81
- 36665 OLIVE, J. P. Pour produire davantage de lait: distribuons aux vaches laitières des rations bien équilibrées. *Agr. Prat.* 113: 28-29. Jan. 1949. 14 J82
- 36666 PARRY, M. Rape, kale and cabbages provide cheap winter feeding for the dairy herd on a Dorset holding. *Farmer & Stock-Breeder* 63: 92. Jan. 11, 1949. 10 F228
- 36667 PATERSON, R. This is a ley production line. *Farmers Weekly [London]* 30(5): 42-43. Feb. 4, 1949. 10 F2226  
Comparative value of feeds in milk production.
- 36668 PHILLIPS, H. Success with young stores. *Farmer & Stock-Breeder* 63: 94. Jan. 11, 1949. 10 F228  
Use of waste greenstuff and feed substitutes in the cattle diet.
- 36669 PICCHI, A. The functional control of growth and aptitude for fattening. (In Italian.) *Allevatore* 4(43): 4. Oct. 22, 1948. 49 AL55  
Cattle.
- 36670 REEVES, F. Cattle feeding in the Corn Belt. *Cattleman* 36(6): 36, 38, 40. Nov. 1948. 49 C29
- 36671 REID, J. T. Recent studies of mineral metabolism in dairy cattle. *Cornell Nutr. Conf. Feed Mfrs. Proc.* 1948: 47-54. 389.79 C81
- 36672 RITZMAN, E. G. Wood yeast as a protein supplement. *Guernsey Breeders' J.* 74: 1025-1026, 1070. Nov. 15, 1948. 43.8 G93
- 36673 ROSS, R. H., and KNOTT, C. B. The effect of supplemental vitamin A upon growth, blood plasma carotene, vitamin A, inorganic calcium, and phosphorus of Holstein heifers. *J. Dairy Sci.* 31: 1062-1067. Ref. Dec. 1948. 44.8 J822
- 36674 ROSS, R. H. Supplemental vitamin A for dairy cattle. Pa. State Col. Abs. Doct. Diss. (1947) 10: 159-164. 1948. 241.8 P38
- 36675 SANDERSON, C. J. Advice on correct feeding of cows. *Land [Sydney]* 1949, 1. e. 1939: 8. Dec. 31, 1948. 23 L22
- 36676 SEWELL, W. E. Solvent extracted cottonseed meal and pellets for feeding beef cattle and sheep; discussion of a new cottonseed product for use in the livestock industry. *Cattleman* 36(6): 28, 77-78. Nov. 1948. 49 C29
- 36677 SHAW, A. O., NICHOLS, M. B., and BLOSSER, T. H. Check the dairy cow's mineral requirements. *West. Feed & Seed* 4: 5, 11. Jan. 1949. 389.78 W52
- 36678 SHILLIDAY, N. H. Lime and fertilizer help lick breeding troubles. *Ohio Farmer* 203(3): 3, 43. Feb. 5, 1949. 6 Oh3  
Nutritive value of feed and its effect on the conception rate in dairy cattle bred artificially.
- 36679 TAGLE, E. C., and HELMAN, M. B. Preparación de novillos gordos. Argentina. *Dir. de Inform. P. Misc.* 279, 8 p. 1948. 9 P943
- 36680 TURK, K. L. Proteins for dairy cattle. *Cornell Nutr. Conf. Feed Mfrs. Proc.* 1948: 13-14. 389.79 C81
- 36681 VANCE, E. H. Junior cattlemen test feeds; 4-H boys gain in calf scramble and feeding programs. *Fla. Grower* 57(3): 23, 32. Mar. 1949. 80 F6622
- 36682 WHITING, F., and others. The influence of tocopherols and cod-liver oil on milk and fat production. *J. Dairy Sci.* 32: 133-138. Ref. Feb. 1949. 44.8 J822  
J. K. Loosli, V. N. Krukovsky, and K. L. Turk, joint authors.
- 36683 WILLIAMSON, G. An estimate of the food requirements of milch and other cattle in India and suggestions as to how present agricultural practice can be adjusted to provide them. *Indian Vet. J.* 25: 205-212. Jan. 1949. 41.8 In2
- 36684 WILSON, J. L., and TAYLOR, F. Rations fed to milk cows. *Flour & Feed* 49(10): 9. Mar. 1949. 298.8 F66
- 36685 WINTERS, S. R. Dried grapefruit peel increases milk production. *Hoard's Dairyman* 94: 226. Mar. 10, 1949. 44.8 H65
- 36686 WOTTLING, H. Aspects techniques et économiques du sevrage du veau. *Tech. Lait.* 5(47): 8. Feb. 11, 1949. 44.8 Of2
- 36687 ZAL'TSMAN, L. M., and BLOMKVIST, B. L., eds. Opyt otgonno-pastbishchnogo soderzhanii skota v kolkhozakh [Experiments in cattle pasturing on collective farms]. Moskva, Sel'khozgiz, 1948. 126 p. 40 Z13

#### Veterinary Medicine

- 36688 ALMQUIST, J. O., GLANTZ, P. J., and SHAFER, H. E. The effect of a combination of penicillin and streptomycin upon the livability and bacterial content of bovine semen. *J. Dairy Sci.* 32: 183-190. Ref. Feb. 1949. 44.8 J822
- 36689 ALMQUIST, J. O. Effects of penicillin upon bovine semen. Pa. State Col. Abs. Doct. Diss. (1947) 10: 153-158. 1948. 241.8 P38
- 36690 ASCOLI, A. The importance of the bovine subject in the specific prophylaxis of tuberculosis with B.C.G. (In Italian.) *Zooprofilassi* 3: 212-217. Aug. 1948. 41.8 Z72
- 36691 BAILEY, J. W. What you're asking about adult cattle vaccination. *Successful Farming* 47(3): 136-139. Mar. 1949. 6 Su12
- 36692 BAILEY, J. W. What you're asking about calfhood vaccination. *Successful Farming* 47(2): 122-124. Feb. 1949. 6 Su12
- 36693 BAKER, E. T. Lungworms in calves. *Amer. Hereford J.* 39(21): 82-83. Mar. 1, 1949. 43.8 Am32
- 36694 BALLANTYNE, E. E. Bovine brucellosis (Bang's disease, or contagious abortion). *Canad. Cattleman* 11: 215, 226. Mar. 1949. 49 C16
- 36695 BARRETT, E. P., and CRAWSHAW, H. A. Impaction of the reticulum in a first calf Ayrshire cow. *Vet. Rec.* 61: 101. Feb. 26, 1949. 41.8 V641  
Surgical intervention.
- 36696 BENNER, J. W. There are two 'X' [cattle] diseases—do you know them apart? *West. Farm Life* 51(1, Sect. 2, Ann. *Livestock Rev.* 1949): 72. Jan. 1, 1949. 6 R153  
X disease in cattle, characterized by skin disorder.
- 36697 BENNER, J. W. Veterinarian describes 'X' disease in cattle. *N. Mex. Agr. Col. Ext. News* 29(1): 2-3. Jan. 1949. 275.29 N463Ex
- 36698 BISHOP, C. P. The progress made in eradicating bovine brucellosis in State of Pennsylvania. Pa. *Grange News* 45(11): 2-3, 14. Feb. 1949. 6 P38
- 36699 BRADT, C. G. Pulling together for healthy herds. *Hoard's Dairyman* 93(21): 803, 814. Nov. 10, 1948. 44.8 H65
- 36700 BROCHARD, M. La trichomoniose, maladie à avortements contagieux des bovins. *Terre* 220: 1, 3. Dec. 30/Jan. 5, 1949. 281.8 T27



- 36701 BRUTSMAN, F. E. Dairy cattle practice. Iowa Vet. 20(2): 9-12, 26. Mar./Apr. 1949. 41.8 Io9
- 36702 CANHAM, A. S. Vibrio foetus infection in cattle. So. African Vet. Med. Assoc. J. 19: 103-104. Sept. 1948. 41.8 So8
- 36703 CARDIM, W. H. Enzootic goiter in calves. (In Portuguese.) Biológico 14: 243-244. Oct. 1948. 442.8 B529  
In São Paulo.
- 36704 CHAVES HERNANDEZ, A. El meteorismo agudo o timpanitis en el ganado bovino. Cult. Mod. 31: 413. Nov. 1948. 15 C89
- 36705 CLARA, I. A look at the activity displayed at the Milan cattle disease experimental station in the years 1945-1946-1947. (In Italian.) Clin. Vet. [Milan] 71: 354-363. Nov. 1948. 41.8 C61
- 36706 CLARA, I. Results of the cure of actinomycosis of cattle with the preparations iodoquinoline (?) and iodoquinoline-casein (?). (In Italian.) Prog. Vet. 3: 347-348. Oct. 15, 1948. 41.8 P942
- 36707 COLLINSON, R. W. Staphylococcic mastitis [in cattle]. Amer. Vet. Med. Assoc. J. 114: 147-150. Mar. 1949. 41.8 Am3
- 36708 CONRADI, H. Die trichomonadenseuche. Berlin. u. München. Tierärztl. Wchnschr. 1948: 65-68. June 1948. 41.8 B45  
In cattle.
- 36709 CORREA, O. Principal diseases of dairy cattle. Udder diseases. (In Portuguese.) Granja [Porto Alegre] 4(36/37): 36-37. (Cont.) Sept./Oct. 1948. 9.2 G76
- 36710 COTO CORONADO, H. La anaplasmosis en el ganado bovino de Costa Rica. Suelo Tico 1: 211-217. Oct. 1948. 8 Su2
- 36711 CRAIGE, A. H., JR., and others. Biochemical studies on three cows at parturition including one case of milk fever. Amer. Vet. Med. Assoc. J. 114: 136-140. Ref. Mar. 1949. 41.8 Am3  
R. B. Johnson, E. G. Blackburn, and J. M. Coffin, joint authors.
- 36712 CROUSEY, L. M. Is she in-calf? The answer to this important question in so many transactions can be positive one. Shorthorn World 33(21): 27-28. Feb. 10, 1949. 43.8 Sh8
- 36713 DALLING, T. The control of some diseases of dairy cows. Manx J. Agr. (n. s.) 3(3): 32-41. Jan. 1949. 10 M312
- 36714 DAVIDSON, W. B. "X" diseases in Canada & U.S.A. Canad. Cattlemen 11: 214. Mar. 1949. 49 C16  
Cattle.
- 36715 DICK, J. R. La parálisis parturiente en la vaca. Agr. y Ganad. 23 i.e. 24(4 i.e. 1): 8-19. Jan. 31, 1949. 8 Ag834
- 36716 DIESEL, A. M., and VAN DRIMMELEN, G. C. The diagnosis of East Coast fever in South Africa: a review. So. African Vet. Med. Assoc. J. 19: 81-92. Ref. Sept. 1948. 41.8 So3  
Bovine theileriasis.
- 36717 DIMIĆ, J. M. Opération par voie externe des rétrécissements du trayon. Schweiz. Arch. f. Tierheilk. 91: 116-119. Feb. 1949. 41.8 Sch9  
In cattle and goats.
- 36718 DURRELL, W. B. Infectious vaginitis in cattle; a review with additional notes. Canad. J. Compar. Med. 13: 32-40. Ref. Feb. 1949. 41.8 C162  
French summary.
- 36719 EDWARDSON, J. Cow and calf. II. Young Farmer 17: 22-24. Jan./Feb. 1949. 10 Y8  
Second in a series on the birth and rearing of animals.
- 36720 EGEHØJ, J. Distomiasis in Danish cattle. Amer. Vet. Med. Assoc. J. 114: 130. Mar. 1949. 41.8 Am3
- 36721 EHRLICH, C. Das wesen und die bekämpfung des gelben galtes. Landw. Wchnbl. f. Westfalen u. Lippe 105: 377. Dec. 18, 1948. 18-L2346
- 36722 FERNANDEZ LAÑAS, J. J. Disenteria de los terneros. Rev. de Agr., Com. e Indus. [Panama] 8(87): 30-34. Nov. 1948. 8 R3291
- 36723 FIELD, H. I. Salmonella infection in cattle. Vet. Rec. 61: 109-112. Ref. Mar. 5, 1949. 41.8 V641
- 36724 FISCHER, J. E., and SUTTON, T. S. Effects of lactose on gastro-intestinal motility: a review. J. Dairy Sci. 32: 139-162. Ref. Feb. 1949. 44.8 J822
- 36725 FRAYER, J. M. A study of certain methods used in the laboratory diagnosis of bovine mastitis. Vt. Agr. Expt. Sta. B. 547, 19 p. Ref. Oct. 1948. 100 V59
- 36726 GALLINA, L. Puerperal collapse in the cow, or mammary insufflation. (In Italian.) Prog. Vet. 3: 322-323. Oct. 1, 1948. 41.8 P942
- 36727 GIBBONS, W. J. X-disease of cattle. Auburn Vet. 5: 63-66, 80-83. Winter 1949. 41.8 Aul
- 36728 GLÄSSER. Zur neuen rindertuberkulosebekämpfung. Tierärztl. Umschau 3: 212-214. July 1948. 41.8 T445
- 36729 GONELLA, G. Sterilization of cows by means of endovaginal ovariopositis. (In Italian.) Prog. Vet. 3: 319-322. Oct. 1, 1948. 41.8 P942
- 36730 GOODMAN, A. A. Blackleg-malignant edema vaccine. Shorthorn World 33(22): 55-56. Feb. 25, 1949. 43.8 Sh8  
Similar title in Cattleman 35(10): 142. Mar. 1949. 49 C29
- 36731 GÜNTHART, A. Ueber euterform und leistung. Grüne 76: 1360-1362. Dec. 17, 1948. 17 Sch9  
Dairy cattle.
- 36732 HARNEY, A. R. Idaho experience proves mastitis can be stopped. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 88, 89. Jan. 1, 1949. 6 R153
- 36733 HATCH, R. D., FEENSTRA, E. S., and JENNINGS, L. F. A bacteriologic survey of the reproductive tract of infertile cows. Amer. Vet. Med. Assoc. J. 114: 131-133. Mar. 1949. 41.8 Am3
- 36734 HAUBRICH, W. R. Vibrio fetus—a little-known abortion and sterility cause. Holstein-Friesian World 46: 515, 611. Mar. 19, 1949. 43.8 H742
- 36735 HIBBS, J. W. Studies on some of the nutritional and physiological aspects of milk fever in dairy cows. Ohio. State U. Abs. Doctoral Diss. (1946/47) 54: 163-179. 1948. 241.8 Oh3
- 36736 HOFFMANN. Das böartige katarrhalfieber der rinder. Allgäuer Bauernbl. 16: 335. Dec. 24, 1948. 18 AL53
- 36737 HOFUND, S. A. Stimulate activity of rumen micro-organisms. (In Swedish.) Lantmannen 33: 123-124. Feb. 19, 1949. 11 L234  
Of cattle.
- 36738 HUSTON, C. R. Building and preserving udders. Guernsey Breeders' J. 75: 691-694, 713-714. Mar. 1, 1949. 43.8 G93
- 36739 IGNESTI, E. The veterinarian talks to you about the grading of cattle as to fat. (In Italian.) Terra [Firenze] 60(2): 3. Jan. 9, 1949. 16 T274
- 36740 ILLARI, G., and CALISTI, V. On the mucous plug in pregnancy and the estral secretion in cattle. (In Italian.) Zootec. e Vet. 3: 549-552. Sept. 1948. 41.8 Z7  
English summary.
- 36741 KALCHSCHMIDT, H. G. Zur leitungsanaesthesie für laparatomien beim rind. Tierärztl. Umschau 3: 237-238. Aug. 1948. 41.8 T445
- 36742 KÄSTLI, P. Erfahrungen und beobachtungen mit penicillintuben zur behandlung des gelben galtes der milchkühe. Schweiz. Arch. f. Tierheilk. 91: 73-81. Feb. 1949. 41.8 Sch9
- 36743 KÄSTLI, P. Massnahmen von seiten der milchwirtschaft zur bekämpfung der rindertuberkulose. Schweiz. Zentbl. f. Milchw. 38: 31, 37-38. (Concl.) Feb. 18, 25, 1949. 44.8 Sch93
- 36744 KÄSTLI, P. Wie lässt sich der kampf gegen die rindertuberkulose bei uns organisieren? Schweiz. Zentbl. f. Milchw. 38: 21. Feb. 4, 1949. 44.8 Sch93
- 36745 KIDSON, A. L. Penicillin and the mastitis menace. Dairyman 66: 129, 131, 133. Mar. 1949. 44.8 D1426
- 36746 KLUSSENDORF, R. C. Mastitis in the bovine. Iowa Vet. 20(2): 16-17. Mar./Apr. 1949. 41.8 Io9
- 36747 KNAPPENBERGER, J. F. Digestive disturbances of cattle. North Amer. Vet. 30: 167-170, 174. Mar. 1949. 41.8 N812
- 36748 KNIGHT, D. Why not classify udders separately. Jersey B. 68: 242-243, 256, 258, 260, 262, 264, 266, 268. Feb. 25, 1949. 43.8 J48
- 36749 KOCH, W. Versuche mit weizenkeimöl bei seuchenhaftem verkalben. Tierärztl. Umschau 3: 243-244. Aug. 1948. 41.8 T445



- 36750 KRISHNAMURTHY, D. A note on 'bovine lymphangitis' in Madras Province. *Indian Vet. J.* 25: 249-261. Ref. Jan. 1949. 41.8 In2
- 36751 LAING, J. A. Catching helpers "on heat" in winter. *Home Farmer* 16(2): 11-12. Feb. 1949. 280.344 H75
- 36752 LANFRANCHI, A. On the etiology of apthous myocarditis. (In Italian.) *Zooprofilassi* 3: 210-211. Aug. 1948. 41.8 Z72
- Reply to G. Caporale on secondary infections in cattle following foot and mouth disease.
- 36753 LAZZARO, D. A. Reses ictericas. *Gac. Vet.* 10: 242-264. Ref. Nov./Dec. 1948. 41.8 G112
- 36754 LÉAO, R. L. Mastitis in dairy cows. (In Portuguese.) *Soc. Rural Bras. Rev.* 29: 40-41. Jan. 1949. 9.2 B733
- 36755 LOFTHOUSE, F. Ragwort poisoning [in a heifer]. *Vet. Rec.* 61: 115. Mar. 5, 1949. 41.8 V641
- 36756 MCCLELLAND, J. What happens inside the cow? *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 171, 173. Jan. 1, 1949. 6 R153
- 36757 MADERIOUS, W. E., and ALBAUGH, R. Brucellosis control; vaccination of dairy and beef calves proves promising in experiments. *Calif. Agr. [Calif. Sta.]* 3: 7, 16. Jan. 1949. 100 C12Cag
- 36758 MARRONE, P. Malignant catarrhal fever [in cattle] and sulfamide therapy. (In Italian.) *Zooprofilassi* 3: 218-224. Aug. 1948. 41.8 Z72
- 36759 MESCHINI, S. A suggestive hypothesis on the pathogenesis of puerperal collapse in cattle. (In Italian.) *Nuova Vet.* 24: 313-315. Sept. 15, 1948. 41.8 N922
- 36760 MOHLER, W. M., EICHORN, E. A., and ROGERS, H. Complement-fixation test for serum diagnosis of bovine anaplasmosis. *Vet. Med.* 44: 155-156. Apr. 1949. 41.8 M69
- 36761 MONTEAUX, A. Combattons les mammites pour améliorer notre production laitière. *J. de la France Agr.* 4: 976. Nov. 19/25, 1948. 14 J829
- 36762 NAYAR, K. N. G., NAMBIAR, K. T. K., and SASTRY, G. A. A study of the cellular elements and haemoglobin content of the blood of south Indian cattle. *Indian Vet. J.* 25: 212-217. Jan. 1949. 41.8 In2
- 36763 NORDIS, S. DE. Contribution on penicillin therapy and prophylaxis of streptococcal mastitis in cattle. (In Italian.) *Nuova Vet.* 24: 315-317. Sept. 15, 1948. 41.8 N922
- 36764 OLITZKI, L., and others. Immunological studies on bovine leptospirosis. *J. Infect. Dis.* 84: 15-20. Jan./Feb. 1949. 448.8 J821
- L. A. Stuczynski, C. Halevi, and H. Bernkopf, joint authors.
- 36765 PARKER, R. R., BELL, E. J., and STOENNER, H. G. Q fever—a brief survey of the problem. *Amer. Vet. Med. Assoc. J.* 114: 124-130. (Concl.) Ref. Mar. 1949. 41.8 Am3
- In cattle, wildlife, and man.
- 36766 PARNAS, J. Recherches sur la vaccination contre la brucellose en Pologne. *Off. Internat. des Epi-zoot. B.* 29: 183-187. May/June 1948. 41.8 Of2
- In cattle.
- 36767 PETERS, W. H., and MORRIS, W. E. Some cattle diseases and parasites. *Shorthorn World* 33(21): 70-71, 82. Feb. 10, 1949. 43.8 Sh8
- 36768 PETERSEN, S. E. Understanding dairy cows. *Young Farmer* 17: 17-19. (Cont.) Jan./Feb. 1949. 10 Y8
- Anatomy.
- 36769 PIANA, G. On the supposed intoxication by soybean flour. (In Italian.) *Clin. Vet. [Milan]* 71: 381-384. Dec. 1948. 41.8 C61
- Cattle.
- 36770 PROVAN, A. L. Bloat in cows. *Australian Milk & Dairy Prod. J.* 15(11): 31. Nov. 1948. 44.8 Au72
- 36771 RAINEY, J. W. Mortality from urethral calculus in young cattle. *Austral. Vet. J.* 25: 12-13. Jan. 1949. 41.8 Au72
- 36772 RAMPON, L. Remarques sur la virulence naturelle de *Theileria dispar*. Essais de traitement de la theileriose bovine par la "Lomidine." *Inst. Pasteur d'Algérie, Arch.* 26: 386-390. 1948. 448.3 In7A
- 36773 RATHMAN, G. A. Danger and losses likely to result from spread of bovine tuberculosis. *Kans. Stockman* 33(5): 28, 57. Mar. 1949. 49 K134
- 36774 REFAIT, R. La pericardite traumatique par corps étrangers chez les bovins. *Paysan Franç.* 24(374): 7. Feb. 1949. 14 P29
- 36775 REID, J. T., and HUFFMAN, C. F. Some physical and chemical properties of bovine saliva which may affect rumen digestion and synthesis. *J. Dairy Sci.* 32: 123-132. Ref. Feb. 1949. 44.8 J822
- 36776 ROEHE, R. Bovine trichomoniasis. (In Portuguese.) *Rio Grande do Sul. Dir. da Prod. Anim. B.* 4(6): 21-26. June 1948. 49.9 R47
- 36777 ROOY, W. VAN, and SIKAR. Primary suppurative osteitis of the ethmoid spreading to the frontal sinus and cranial cavity in a cow. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 425-426. Dec. 1948. 41.8 V51
- 36778 SANDERSON, C. J. Botulism or forage poisoning in cattle. *Land [Sydney]* 1948, i. e. 1938: 18. Dec. 24, 1948. 23 L22
- 36779 SANDERSON, C. J. T.B. in cattle on the increase. *Land [Sydney]* 1950, i. e. 1940: 16. Jan. 7, 1949. 23 L22
- 36780 SCHEIDY, S. F., and others. Blood concentrations following the administration of sulfamerazine and sulfamethazine to cattle. *Vet. Med.* 44: 157-162. Apr. 1949. 41.8 M69
- E. C. McManus, E. K. Tillson, and A. A. Pitt, joint authors.
- 36781 SHIK, G. Z. Sulfamide preparations and their use in the treatment of diseases in calves. (In Russian.) *Veterinariia* 25(10): 35-39. Oct. 1948. 41.8 V6426
- 36782 SIVIERI, G. Is it possible to avoid "puerperal collapse in cattle?" (In Italian.) *Riv. di Zootec.* 21: 324. Oct. 1948. 49 R52
- 36783 SOKOLOWSKYJ, W. Über die diagnose der trichomoniasis des rindes und ihre bekämpfung mit besonderer berücksichtigung des chloramins. *Tierärztl. Umschau* 3: 201-206. Ref. July 1948. 41.8 T445
- 36784 SOLOMKIN, P. S. Aujeszky's disease in cattle. (In Russian.) *Veterinariia* 25(8): 22-24. Aug. 1948. 41.8 V6426
- 36785 SOUZA, O. P. C. DE. Malignant catarrhal fever in cattle. (In Portuguese.) *Lav. Arroz.* 2(23): 19. Nov. 1948. 59.8 L39
- 36786 SPANN, J. Nachgeborene zwillinge, fälle von überfruchtung und überschwängerung. *Allgäuer Bauernbl.* 16: 334-335. Dec. 24, 1948. 18 AL53
- 36787 TARASOV, V. R. Rumenotomy in traumatic reticular peritonitis in cattle. (In Russian.) *Veterinariia* 25(10): 26-27. Oct. 1948. 41.8 V6426
- 36788 TAYLOR, B. A. Tuberculosis of dairy cows. *Canterbury Chamber Com. Agr. B.* 232, 4 p. Christchurch, 1948. 23 C162
- New Zealand.
- 36789 THRELKELD, W. L., and JOHNSON, E. P. Observations on the pathogenicity and viability of *Ostertagia ostertagi*. *Vet. Med.* 43: 446-452. Nov. 1948. 41.8 M69
- In calves.
- 36790 TIPPETT, S. G. Human tuberculosis of bovine origin; its prevention is still an urgent problem. *Brit. Vet. J.* 105: 14-18. Jan. 1949. 41.8 V643
- 36791 TØRNING, K. Tuberculosis. In *The humanities and the sciences in Denmark*, p. 482-485. Copenhagen, E. Munksgaard, 1948. 330 H882
- Cattle.
- 36792 TOWERS, K. G. Acute arsenical poisoning in cattle. *Brit. Vet. J.* 105: 18-22. Jan. 1949. 41.8 V643
- 36793 VAITSMAN, J. Malignant catarrhal fever of cattle. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 12: 168. July/Sept. 1948. 9.2 R325
- 36794 VENEZUELA, DIRECCIÓN DE GANADERÍA. La mamitis de la vaca, por C. Ruiz Martínez. Caracas, 1948. 57 p. 41 V55Ma
- 36795 VISINTINI, A. Acetonemia in cattle. (In Italian.) *Nuova Vet.* 24: 308-313. Sept. 15, 1948. 41.8 N922
- 36796 WALTON, A. Physiology of dairy cattle. V. Pregnancy. *Home Farmer* 16(2): 20-21. Feb. 1949. 280.344 H75
- 36797 WEAVER, G. S. Brucellosis (Bang's disease or contagious abortion) in cattle, in hogs, in man. *S. Dak State Col. Agr. Ext. Leaflet* 116, 6 p.-folder. Oct. 1948. 275.29 So85E



- 36798 WEITZ, B. C[orynebacterium] pyogenes infection in cattle with special reference to summer mastitis. Vet. Rec. 61: 123-126. Ref. Mar. 12, 1949. 41.8 V641
- 36799 WILLIAMSON, M. White scours in dairy calves. Purdue Agr. 40(5): 7, 15. Feb. 1949. 6 P97

#### Miscellaneous

- 36800 ATTOE, O. J. Shavings for bedding save plant food. Hoard's Dairyman 94: 18. Jan. 10, 1949. 44.8 H65
- 36801 AUF DER HEIDE, A. Handling vealers for top weight & top prices. West. Livestock J. 27(17): 42, 60. Feb. 15, 1949. 6 F2278
- Program on a cattle farm in California.
- 36802 BARDUCCI, V. The Alps and the reestablishment of the domestic bovine population. (In Italian.) Allevamenti nel Mondo 28: 150-151. July/Aug. 1948. 49 AL56
- Italy.
- 36803 BASSFORD, F. The West's greatest selling spectacle. West. Livestock J. 27(12): 52, 98, 114. Jan. 15, 1949. 6 F2278
- Purebred beef cattle sales in California.
- 36804 BETTINI, T. M. Technique, organization and execution of the controls and somatic characters. (In Italian.) Allevatore 4(43): 4. Oct. 22, 1948. 49 AL55
- Judging cattle.
- 36805 BIRZELE, C. Das zungenschlagen der rinder. Württemb. Wchnbl. f. Landw. 116: 7. Jan. 1, 1949. 18 W96
- 36806 BRADBURY, C. J. Association Herd Test; report for year 1947-48. Victoria. Dept. Agr. J. 46: 491-494, 518-523, 526. Nov. 1948. 23 V66J
- Dairy cattle records.
- 36807 BUCHANAN-SMITH, A. D. Inheritance of milking capacity in dairy cattle. Farmers Club, London J. 7: 86-91. 1948. 10 L84
- Discussion, p. 91-98.
- 36808 BUJATTI, G. Market shows and demonstrations, and changing the basis of selection. (In Italian.) Allevatore 4(43): 10. Oct. 22, 1948. 49 AL55
- Cattle.
- 36809 CADZOW, R. A. Beef production in Argentina. Farming News & North Brit. Agr. 101(7): 11. Feb. 11, 1949. 10 N82
- 36810 COBB, W. T. Putting the Louisiana cattle industry on the map. Gulf Coast Cattleman 14(12): 5-7. Feb. 1949. 43.8 C63
- Activities of the Louisiana Cattlemen's Association.
- 36811 CONNELLY, R. G. Raising the dairy heifer. South. Planter 109(11): 14, 15. Nov. 1948. 6 So89
- 36812 CRAM, J. S. Key to the Tantramar riddle? Macdonald Col. J. 9(5): 10-11. Jan. 1949. 101 M144
- Beef cattle production possibilities on the Tantramar marshes in the Maritimes, Canada.
- 36813 DART, R. A. Water cattle. So. African Sci. 2: 81-83. Nov. 1948. 475 So8
- In mythology.
- 36814 DRYDEN, W. A. A famous judge reminisces, and concludes that judges do not always win the affection of exhibitors. Shorthorn World 33(16): 9, 77-78. Nov. 1948. 43.8 Sh8
- 36815 DU PREEZ, G. K. The raising of calves. (In Afrikaans.) Landbouweekblad 30(1535): 43-44. Dec. 15, 1948. 24 L232
- 36816 DURANT, A. L., and GRAVES, J. T. Fat cattle judging for 4-H Clubs. Clemson Agr. Col. S. C. Ext. C. 320, 8 p.-folder. Oct. 1948. 275.29 So8E
- 36817 ELAM, F. L. Ingredients for ranching success. West. Livestock J. 27(17): 41, 54-56. Feb. 15, 1949. 6 F2278
- Management of a cattle ranch.
- 36818 ELY, G. W. Susquehanna County [Pennsylvania] veterans learn calf raising. Agr. Ed. Mag. 21: 179, 187. Feb. 1949. 275.8 Ag8
- 36819 FORBES, R. C. The show of cattle. Breeder's Gaz. 114: 10, 28. Jan. 1949. 49 B74
- 36820 GAUNTT, F. Junior programs don't just happen. More than awards are required to build a state 4-H breed program that will build the breeders and leaders of tomorrow. Brown Swiss B. 27(8): 11-12, 20. Feb. 1949. 43.8 B81
- 36821 HAAG. Die rindviehzucht im Elsass. Bas-Rhin Agr. 4: 73, 75-76. Feb. 12, 1949. 14 B29
- 36822 HARRIS, L. D. Cattle trails from Texas to Dakota. Dak. Farmer 69(4): 58-60. Feb. 19, 1949. 6 D14
- Origin of the Texas longhorn.
- 36823 HARVEY, C. C. La producción de leche. Rev. Agr. y Ganad. 10(109): 20-21. Nov. 1948. 9.4 R327
- Cattle care.
- 36824 HENNING, P., JR. Spring shows promote better cattle in your community! West. Dairy J. 5(5): 25. Mar. 1, 1949. 44.8 W524
- 36825 HOUGHABOOM, V. R. Ten years of dairy farming in Vermont. Vt. Agr. Expt. Sta. B. 548, 23 p. Jan. 1949. 100 V59
- 36826 HUTCHINSON, J. A trophy comes to Shopland. Farmers Weekly [London] 30(6): 41. Feb. 11, 1949. 10 F2226
- Management of a dairy farm in England.
- 36827 IŮRMALJAT, A. P. Razdoj korov [The milking of cows]. Moskva, Moskovskij Rabochij, 1948. 67 p. (Pamjatka Dojarki) 44 lu6
- 36828 JONES, H. D. Oklahoma association encourages showing livestock. Agr. Ed. Mag. 21: 172-173, 190. Feb. 1949. 275.8 Ag8
- 36829 LASNIER-LACHAISE, L. Le contrôle laitier et beurrier. Bas-Rhin Agr. 4: 82, 85. Feb. 12, 1949. 14 B29
- 36830 LEIGHTON, L. E. Raising dairy calves. Milk Prod. 13, 1. e. 14(9): 9. Nov. 1948. 44.8 M5993
- 36831 LUSH, J. L. Out on first record? Holstein-Friesian World 46: 517, 613. Mar. 19, 1949. 43.8 H742
- 36832 MAGLIANO, A. The future of the draft and beef breeds in relation to farm mechanization. (In Italian.) Allevatore 4(43): 11. Oct. 22, 1948. 49 AL55
- 36833 MAMCHUR, A. M. Effect of milking methods on the yield and fat content of milk. (In Russian.) Konevodstvo 18(5): 27-33. Sept./Oct. 1948. 42.8 K832
- 36834 MASTERS, M. E. In North Dakota there are many limitations and advantages in milking cows. Dak. Farmer 69(4): 1, 22, 23, 33. Feb. 19, 1949. 6 D14
- 36835 MAYMONE, B. Raising buffaloes and reclamation [in Italy]. (In Italian.) Humus 4(11): 6-8. Nov. 1948. 16 H88
- 36836 MISSISSIPPI. STATE COLLEGE. EXTENSION SERV. There's gold in the green of Mississippi, dairyland unlimited. Miss. State Col. Ext. Leaflet 87, 4 p. June 1948. 275.29 M68Ex
- 36837 NANCE, H. W. A sitting Hereford. Amer. Vet. Med. Assoc. J. 114: 152. Mar. 1949. 41.8 Am3
- Calf assumes dog-like posture.
- 36838 NIEMANN, P. J. The dairy cow and summer heat. Farming So. Africa 23: 809-810. Dec. 1948. 24 So842
- 36839 PAOLO, B. Drying off milch cows. (In Italian.) Rinascita Agr. 3(7): 2. Feb. 1, 1948. 281.8 R47
- 36840 PERRON, J. Cultivateurs-laitiers, voulez-vous abaisser votre coût de production du lait? B. des Agr. 45(1): 9-10. Jan. 1949. 7 B872
- Dairy farm management.
- 36841 PFEIFFER, C. Das "glück im kuhstall." Kärntner Bauer 99: 10-12. Jan. 15, 1949. 19 K14
- 36842 PÖHLER. Die beste milchkuh; merkmale zur beurteilung der milchleistung. Württemb. Wchnbl. f. Landw. 116: 30-31. Jan. 15, 1949. 18 W96
- 36843 QUEIROZ, M. DE S. General zootechny; the dairy cow. (In Portuguese.) Chacaras e Quintais 78: 736-737. (To be cont.) Dec. 15, 1948. 9.2 C34
- 36844 REES, A. VAN. Raising cattle on rafts in Hoeloe-Kapoeas. (In Dutch.) Nederland. Indische Bl. v. Diergeneesk. 55: 415-416. Dec. 1948. 41.8 V51
- 36845 REGAN, M. J. What about production this winter? Kans. City Coop. Dairyman 18(12): 5-6. Dec. 1948. 280.28 K13
- Cattle care.
- 36846 RIDELELLA, A. Mountain cattle [of Italy]. (In Italian.) Allevatore 4(46): 7. Nov. 14, 1948. 49 AL55
- 36847 ROCHFORD, L. H. A basis for judging & selling breeding cattle. West. Livestock J. 27(12): 51, 77, 130. Jan. 15, 1949. 6 F2278
- 36848 SANDERS, D. A. Right start in life for calf. Fla. Grower 57(3): 27. Mar. 1949. 80 F6622



- 36849 SANDERS, R. N. The adverse effect of cool weather on milk production in the Tropics. Fiji. Dept. Agr. Agr. J. 19: 39-41. June 1948. 25 F47Ag
- 36850 SANDHOUSE, H. A. 'Home grown' heifers urged for dairy herd replacement. West. Farm Life (1, Sect. 2, Ann Livestock Rev. 1949): 64. Jan. 1, 1949. 6 R153  
Chiefly care.
- 36851 SHEELY, W. J. Managing beef breeding herds. Fla. Grower 57(3): 22, 32. Mar. 1949. 80 F6622
- 36852 SOBRERO, L. R. Las vacas lecheras como auxiliares de la agricultura. Pampa Argentina 22(256): 11. Dec. 1948. 9 P19
- 36853 STEFANELLI, S., and MASCAGNI, O. Functional control of the aptitude for work. (In Italian.) Allevatore 4(43): 5. Oct. 22, 1948. 49 AL55  
Draft cattle.
- 36854 STIGELBERG, M. A visit to the dairy herds in the Jordan Valley settlements. (In Hebrew.) Hassadeh 29: 85-87. (To be cont.) Dec. 1948. 26 H27
- 36855 THOMAS, E. V. It's hard to raise calves. Fla. Cattleman 13(5): 28-29. Feb. 1949. 43.8 F66
- 36856 TIFFANY, A. Western cattle hit by storms. Prairie Farmer, Gen. Ed. 121(3): 61, 62. Feb. 5, 1949. 6 P883
- 36857 TRAPPMANN, F. Möglichkeiten der Leistungssteigerung durch Langlebigkeit. Landw. Wchnbl. f. Westfalen u. Lippe 106: 34-35. Jan. 15, 1949. 18 L2346  
Cattle.
- 36858 TROW-SMITH, R. Salvaging potential beef. Farmer & Stock-Breeder 63: 397. Feb. 15, 1949. 10 F228  
Dairy-bred steers saved from slaughter under the calf salvage scheme in Great Britain.
- 36859 TYRRELL, W. P. The 4-H beef club calf; selection, management, feeding, showing. Tenn. Agr. Col. Ext. P. 304, 12 p. June 1948. 275.29 T25
- 36860 VEZZANI, V. Raising dairy cattle by hand. (In Italian.) Riv. di Zootec. 21: 390-393. Dec. 1948. 49 R52
- 36861 VOSKUIL, W. C. "Cow comfort counts" say canny cattlemen. Wis. Agr. & Farmer 76(2): 8. Jan. 15, 1949. 6 W751
- 36862 WANDHOFF, Typ, leistung und Futteraufwand in der Rinderzucht. Neue Mitt. f. die Landw. 3: 450. Dec. 5, 1948. 18 N39
- 36863 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. What D.H.I.A. [Dairy Herd Improvement Association] cow testing can mean to you. Wis. Agr. Col. Ext. Spec. C. 4, rev., 4 p. Oct. 1948. 275.29 W75S
- 36864 YOUNG, W. How to obtain expansion of milk production. Scot. Farmer 57: 439. Feb. 5, 1949. 10 Sco8
- 36865 ZEMÁNEK, J. Analysis of hereditary tendencies for richness of milk in cows. (In Czech.) Českoslov. Akad. Zeměděl. Vest. 22: 488-490. Dec. 15, 1948. 19.5 C332  
Russian summary.
- 36866 ZVERINA, F. Experimental cattle-shed co-operatives. (In Czech.) Družstevní Rev. 2: 51-53. Oct. 1948. 280.28 D84

## DOGS AND CATS

### Breeds and Breeding

- 36867 ANDREEVA, T. Abused breeds. Hunting & Fishing 26(3): 30-32. Mar. 1949. 410 H922
- 36868 ASSOCIATION OF MASTERS OF HARRIERS AND BEAGLES. Kennel stud book, 1948. London, 1948. 42 p. 48.9 As7
- 36869 CARAFFINI, E. The Italian Piedmontese Spaniel. (In Italian.) Humus 5: 27-29. Jan. 1949. 16 H88
- 36870 DALZELL, A. The working Terrier. Dog World 31: 1116. Dec. 24, 1948. 48.8 D674
- 36871 HEFFER, K. C. The Elkhound in 1948. Dog World 31: 1105. Dec. 24, 1948. 48.8 D674
- 36872 KENDRICK, H. The gun dog breeds. Game News Pa. 19(10): 18, 27. Jan. 1949. 412.9 P38Pe  
Retrievers and Spaniels.

- 36873 MATHEWS, F. The right dog for the job. Successful Farming 47(3): 48, 122, 124. Mar. 1949. 6 Su12  
Breeds of dogs.
- 36874 MEINERS. Windhunde. Kleintier-Zücht. Tierbörse 3(50): 9-10. Dec. 25, 1948. 49 K672
- 36875 PERFECT, E. H. Buying foundation kennel stock. Smallholder 80(2026): 22. Jan. 28, 1949. 10 Sml  
Purchasing breeding stock.
- 36876 PERFECT, E. H. Planning the small kennel. Smallholder 80(2024): 20. Jan. 14, 1949. 10 Sml  
Deals with choosing of a breed.
- 36877 PHILLIPS, C. The Cocker Spaniel. Auburn Vet. 5: 67-68, 84-85. Winter 1949. 41.8 Aul

### Feeds and Feeding

- 36878 ALLISON, J. B., ANDERSON, J. A., and WHITE, J. I. Evaluation of the nutritional value of proteins with normal and protein-deficient dogs. Amer. Assoc. Cereal Chem. Trans. 7: 24-33. Ref. Jan. 1949. 59.9 Am3T
- 36879 MCCAY, C. M., and others. Calcium utilization by dogs. Cornell Nutr. Conf. Feed Mfrs. Proc. 1948: 33-36. 389.79 C81  
L. L. Barnes, R. H. Udall, and F. E. Lovelace, joint authors.

### Veterinary Medicine

- 36880 ANTHONY, D. J. Attempted treatment of fibro-adenomata in the bitch. Brit. Vet. J. 105: 67-68. Feb. 1949. 41.8 V643
- 36881 ANTHONY, D. J. Treatment of canine hysteria by raw liver. Brit. Vet. J. 105: 66-67. Feb. 1949. 41.8 V643
- 36882 BACQ, Z. M., CHARLIER, R., and PHILIPPOT, E. Action de l'ypérite et de ses dérivés sur le cœur et les échanges respiratoires chez le chien anesthésié. Arch. Internat. de Pharmacodyn. et de Thér. 77: 353-368. Ref. Nov. 1, 1948. 448.8 Ar226
- 36883 BARSCHAK, R. M. An endometrial cyst in a spayed bitch. Amer. Vet. Med. Assoc. J. 114: 133. Mar. 1949. 41.8 Am3
- 36884 BODINGBAUER, J. Die staupe-schmelzhypoplasien (staupegebiss) des hundes. Schweiz. Arch. f. Tierheilk. 91: 84-116. Ref. Feb. 1949. 41.8 Sch9
- 36885 BOYER, C. L., JR., DAMMIN, G. J., and REYES, F. M. Canine leptospirosis: first report of leptospirosis canicola in the dog in Puerto Rico. Puerto Rico J. Pub. Health & Trop. Med. 24: 177-184. Ref. Dec. 1948. 448.8 P83  
Same in Spanish, p. 185-193.
- 36886 BRANDARIZ, C. Cuatro signos frecuentes en la sarna del perro. Buenos Aires. Cent. de Estud. de Med. Vet. Rev. 17(26): 48. Apr./June 1948. 41.9 B86
- 36887 BROOK, E. I. Treatment of canine and feline fungus infections. Vet. Med. 44: 179-180. Apr. 1949. 41.8 M69
- 36888 COMBEN, N. Deafness following coal gas poisoning in the small animals. Vet. Rec. 61: 128. Mar. 12, 1949. 41.8 V641  
Dogs and cats.
- 36889 DALY, I. DE B., and others. Pulmonary vasomotor fibres in the sympathetic chain and its associated ganglia in the dog. Q. J. Expt. Physiol. & Cog. Med. Sci. 34: 285-313. Ref. 1948. 447.8 Q1  
H. Duke, C. O. Hebb, and J. Weatherall, joint authors.
- 36890 EDGETT, J. A. Distemper prophylaxis. (Abs.) Amer. Vet. Med. Assoc. J. 114: 150-151. Mar. 1949. 41.8 Am3
- 36891 FEDRIGO, G. Fracture of cervical vertebrae without nervous symptoms in the dog. (In Italian.) Nuova Vet. 24: 300-304. Sept. 15, 1948. 41.8 N922
- 36892 FRIED, K. Electrocardiographic studies on the effect of helverdrine upon the heart of a dog. II. (In Czech.) Časopis Českoslov. Vet. 3: 694-699. Ref. Dec. 10, 1948. 41.8 C27  
French summary.
- 36893 FRIEDMAN, M., and BYERS, S. O. Effect of sodium salicylate upon the uric acid clearance of the Dalmatian dog. Amer. J. Physiol. 154: 167-169. July 1, 1948. 447.8 Am3



- 36894 GANAPATHY, M. S. Canine eczema—its treatment with T. C. F. whole liver extract supplemented with vitamins B. & C. *Indian Vet. J.* 25: 271-277. Jan. 1949. 41.8 In2
- 36895 GARNETT, K. J. Common complaints of dogs in Fiji. 2-3. *Fiji. Dept. Agr. Agr. J.* 19: 53-59. June 1948. 25 F47Ag
- 36896 GRAÑA, A. DA. Diagnóstico y tratamiento de la pericarditis crónica en el perro - sínfisis del pericardio. Buenos Aires. *Cent. de Estud. de Med. Vet. Rev.* 17(26): 5-6. Apr./June 1948. 41.9 B86
- 36897 GUIDA, V. O. Canine leptospirosis. (In Portuguese.) *Fauna [São Paulo]* 7(12): 39-40. Dec. 1948. 41.0 F272
- 36898 HAIG, D. A. Further observations on the growth of Green's distemperoid virus in developing hen eggs. *So. African Vet. Med. Assoc. J.* 19: 73-80. Sept. 1948. 41.8 So8
- 36899 HARE, T. Observations on spasmodophilia in dogs, including canine hysteria. *Brit. Vet. J.* 105: 4-14. Jan. 1949. 41.8 V643
- 36900 HYAM, R. I. C. Canine encephalitis. *Vet. Rec.* 61: 78-79. Feb. 12, 1949. 41.8 V641
- 36901 INNES, J. R. M. The relation of distemper infection to the aetiology of canine encephalopathies. *Vet. Rec.* 61: 73-77. Ref. Feb. 12, 1949. 41.8 V641
- 36902 JOHNSON, H. N. Methods of rabies control. U. S. Dept. State. *Internatl. Organ. & Conf. Ser. I. Gen. 5* (1): 587-600. Ref. 1948. 150 In822  
Chiefly in dogs.
- 36903 KIRK, H. Index of treatment in small-animal practice. Baltimore, Williams & Wilkins, 1948. 773 p. 41 K632In  
Canine and feline.
- 36904 KRÜKOVA, A. P., and LATYSHEV, N. I. Genesis and evolution of Leishmania foci. (In Russian.) *Zhur. Obshch. Biol.* 9: 341-358. July/Aug. 1948. 442.8 Z6  
Leishmaniasis in dogs and in man.
- 36905 LAUGHTON, N. Canine beta haemolytic streptococci. *J. Path. and Bact.* 60: 471-476. Ref. July 1948. 448.8 J82
- 36906 LUSTIG-LENDVA, E. VON. Leucotropin in the treatment of painful arthritic and other lesions [in dogs]. *Brit. Vet. J.* 105: 22-26. Jan. 1949. 41.8 V643  
With addendum by J. McCunn.
- 36907 MACINTYRE, A. B., TREVAN, D. J., and MONTGOMERIE, R. F. Observations on canine encephalitis. *Vet. Med.* 43: 473-479. Nov. 1948. 41.8 M69
- 36908 MULLIGAN, R. M. Neoplastic diseases of dogs. I. Neoplasms of melanin-forming cells. *Amer. J. Path.* 25: 339-347. Ref. Mar. 1949. 448.8 Am39
- 36909 MULLIGAN, R. M. Primary liver-cell carcinoma (hepatoma) in the dog. *Cancer Res.* 9: 76-81. Ref. Feb. 1949. 448.8 C16
- 36910 ORMROD, A. N. Hard pad disease [of dogs]. *Vet. Rec.* 61: 79-80. Feb. 12, 1949. 41.8 V641
- 36911 OSORIO, M. T. Sobre una modificación a la técnica de cuenta de huevecillos de Stoll. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9: 245-252. Sept. 1948. 449.9 M572  
Egg counts in feces of dogs infected with *Ancylostoma caninum*.
- 36912 OTTO, G. F. Heartworm [*Dirofilaria immitis*] in dogs. *North Amer. Vet.* 30: 181-189. Ref. Mar. 1949. 41.8 N812
- 36913 PELLEGRINI, D. First cases of canine rabies in Somalia. (In Italian.) *Zooprofilassi* 3: 283-286. Oct. 1948. 41.8 Z72
- 36914 REMINGTON, J. W., HAMILTON, W. F., and AHLQUIST, R. P. Interrelation between the length of systole, stroke volume and left ventricular work in the dog. *Amer. J. Physiol.* 154: 6-15. Ref. July 1, 1948. 447.8 Am3
- 36915 ROSEBERG, A. R. Dystocia. Cocker Spaniel Visitor 11(2): 14-15. Feb. 1949. 48.8 C64  
In dogs.
- 36916 ROSEBERG, A. R. Spaying. Cocker Spaniel Visitor 11(3): 9-10. Mar. 1949. 48.8 C64
- 36917 RUEGAMER, W. R. Response of dogs to liver extracts containing the pernicious anemia factor. *J. Nutr.* 36: 425-435. Ref. Oct. 11, 1948. 389.8 J82  
W. L. Brickson, N. J. Torbet, and C. A. Elvehjem, joint authors.
- 36918 SAUNDERS, L. G. A survey of helminth and protozoan incidence in man and dogs at Fort Chipewyan, Alberta. *J. Parasitol.* 35: 31-34. Feb. 1949. 448.8 J824  
Chiefly on *Diphyllbothrium latum*.
- 36919 SCHLOTTHAUER, C. F. Canine distemper; some methods used for its treatment and control. *North Amer. Vet.* 30: 171-174. Mar. 1949. 41.8 N812
- 36920 SIEGMUND, O. H., and MORRISON, E. J. An experimental basis for amino acid therapy in canine practice. *Amer. Vet. Med. Assoc. J.* 114: 154-147. Ref. Mar. 1949. 41.8 Am3
- 36921 SILVER, M. L., and others. Canine epilepsy caused by flour bleached with nitrogen trichloride ("agene"). III. Electroencephalographic analysis. *Arch. Neurol. and Psychiat.* 60: 405-411. Oct. 1948. 448.8 Ar292  
E. P. Monahan, J. R. Klein, and G. H. Pollock, joint authors.
- 36922 TOWNSON, R. S., and CRAWFORD, D. H. Transplanting the ureters in the dog. *Vet. Rec.* 61: 66. Feb. 5, 1949. 41.8 V641
- 36923 ULLRICH, K. Zur behandlung der nervenstaupen mit künstlichem fieber; eine kritische studie zur arbeit von Heinz u. Hubert Träger. *Tierärztl. Umschau* 3: 207-212. Ref. July 1948. 41.8 T445  
In dogs.
- 36924 VIAUT, P. Canine piroplasmosis is a disease frequently found in hunting dogs. (In Portuguese.) *Fauna [São Paulo]* 7(12): 24-25. Dec. 1948. 41.0 F272
- 36925 WHITNEY, L. F., and NEWTON, B. L. Spontaneous tumors in dogs. *Vet. Med.* 44: 170-173. Apr. 1949. 41.8 M69

#### Miscellaneous

- 36926 BREEDLOVE, B. W. Handle with care. *La. Conserv.* 1(6): 4-5. Feb. 1949. 279.8 L93  
Training of hunting dogs.
- 36927 DECHAMBRE, P. Le chien; races, élevage, alimentation, hygiène. Ed. 4. Paris, Maison Rustique, 1948. 317 p. 48 D35
- 36928 KENNEL GAZETTE. A souvenir of Cruft's Dog Show, Olympia, 1948. London, 1948. 26 p. 48 K39
- 36929 MENRAD. Welpenauswahl. Kleintier-Zücht. Tierbörse 3(50): 11. Dec. 25, 1948. 49 K672
- 36930 MOUTTE, P. Chasse. Surveillez votre chien! Réveil Agr. 58: 57-58. Feb. 15, 1949. 14 R322
- 36931 NILO, R. Le dressage du "chiot" pour la garde. *Rustica* 22: 89. Jan. 30, 1949. 14 R92
- 36932 NORSK KENNEL KLUB. Norsk Kennel Klub; jubileumsskrift, 1898 - 24, januar - 1948 [Norwegian Kennel Club; jubilee number, 1898-January 24, 1948]. Oslo, Bentzen, 1948. 160 p. 48.9 N81N
- 36933 ROSS, D. G. Enseñanza de un perro gufa. *Chacra* 19(220): 90. Feb. 1949. 9 C34
- 36934 TOSSUTTI, H. Companion dog training; a practical manual on systematic obedience; dog training in word and picture. Rev. ed. New York, Orange Judd Pub. Co., 1948. 272 p. 48 T63

#### FUR ANIMALS - PEN RAISED

##### Breeds and Breeding

- 36935 BUTLER, L. Genetics and fur breeding [in minks]. *Canad. Silver Fox & Fur* 15(2): 12, 14. Feb. 1949. 412.62 C163
- 36936 MARESCALCHI, A. Skins of silver fox in Italy. (In Italian.) *Ital. Vinic. ed Agr.* 38: 257-258. Nov. 30, 1948. 95.8 It1
- 36937 OTT, G. L. Advises use of sperm check as rancher aid. *Amer. Natl. Fur & Mkt. J.* 27(8): 20. Mar. 1949. 412.629 Am3M  
Minks.
- 36938 PENN, K. E. Carefully consider your mating problems. *Black Fox Mag.* 32(11): 18, 28. Mar. 1949. 410 B56  
Mink.
- 36939 PERNU, L. O., and PERNU, E. A. Mink breeding—trial and error. *Amer. Fur Breeder* 21(9): 16, 18, 20. Mar. 1949. 410 Am33
- 36940 PROULX, J. R. Development of the fur animals' breeding in the Province of Quebec. *Pelleteries du Québec* 14(2): 13-14. Dec. 1948. 412.628 P36



### Feeds and Feeding

36941 BASSETT, C. F., LOOSLI, J. K., and WILKE, F. The vitamin A requirement for growth of foxes and minks as influenced by ascorbic acid and potatoes. *Natl. Fur News* 21(2): 18, 28-31. Mar. 1949. 412.628 R59

36942 HURD, R. Chinchilla nutrition—vitamin A. *Natl. Chinchilla Breeder* 14(12): 5-6. Feb. 1949. 412.628 N21

36943 LINDOW, C. W. Feed needs of fur ranchers. *Amer. Fur Breeder* 21(9): 24-26, 28. Mar. 1949. 410 Am33

36944 LINDOW, C. W. Practical and economical feed requirements. *Black Fox Mag.* 32(11): 14, 30. (To be cont.) Mar. 1949. 410 B56

36945 ROBERTS, W. L. Nutrition and economy in mink and fox feeding. *Natl. Fur News* 21(2): 14-15, 33-34. Mar. 1949. 412.628 R59

Similar title in *Black Fox Mag.* 32(10): 11-13, 24-26. Feb. 1949. 410 B46

36946 ROBERTS, W. L. Role of proteins in fur-bearing animal feeding. *Amer. Natl. Fur & Mkt. J.* 27(8): 7, 26-27, 29-30. Mar. 1949. 412.629 Am3M

### Veterinary Medicine

36947 DETWILER, S. R. The eye of the chinchilla (*C. lanigera*). *J. Morph.* 84: 123-144. Jan. 1949. 444.8 J826

36948 GORHAM, J. R. Beware! Red lead poisoning will kill your animals. *Black Fox Mag.* 32(10): 15. Feb. 1949. 410 B46

Minks.

36949 GORHAM, J. R. Inflammation of kidneys in mink. *Black Fox Mag.* 32(10): 33. Feb. 1949. 410 B46

36950 KEAGY, H. F., and HAGEN, K. W. Lactation [in chinchillas]. *Fur Farming J.* 2(5): 13, 15. Mar./Apr. 1949. 45.8 K142

36951 KEAGY, H. F. Preventive medicine for the chinchilla. *Natl. Chinchilla Breeder* 14(12): 19. Feb. 1949. 412.628 N21

36952 KENNEDY, A. H. Nutritional conditions in minks; here is an explanation of the difference between nutritional anemia and acidosis. *Canad. Silver Fox & Fur* 15(2): 4-5. Feb. 1949. 412.62 C163

36953 KENNEDY, A. H. Studies in neurotropic distemper of foxes. VIII. Deviations in the blood of foxes showing no symptoms of neurotropic distemper during an epizootic. *Canad. J. Compar. Med.* 13: 49-53. Feb. 1949. 41.8 C162

36954 MARTIN, J. C. Some notes on distemper [in foxes]. *Canad. Silver Fox & Fur* 15(2): 8, 10. Feb. 1949. 412.62 C163

36955 OTT, G. L. Force-feeding the sick mink. *Canad. Silver Fox & Fur* 15(2): 18-19. Feb. 1949. 412.62 C163

Also in *Amer. Natl. Fur & Mkt. J.* 27(7): 19. Feb. 1949. 412.629 Am3M

36956 POPPENSICK, G. C. The prevention and cure of fur animal diseases. *Amer. Natl. Fur & Mkt. J.* 27(7): 5-6, 27, 30. Feb. 1949. 412.629 Am3M

36957 RINDFLEISCH-SEYFARTH, M. Der sumpfbiber und seine bisher zur untersuchung gelangten infektions- und invasionskrankheiten. *Tierärztl. Umschau* 3: 214-216. Ref. July 1948. 41.8 T445

### Miscellaneous

36958 BÄCK, R. Edelpelztierzucht im siedlergarten. *Österr. Kleintierzüchter* 1949: 505. Jan. 1949. 49 Os7

36959 COOK, E. J. Chapman chinchilla research; priceless service at nominal cost available to all chinchilla breeders. *Fur Farming J.* 2(5): 12. Mar./Apr. 1949. 45.8 K142

36960 CREIGHTON, J. K. Chinchillas in B. C. *Fur Trade J. Canada* 26(6): 16-17, 28. Feb. 1949. 412.628 F963

36961 GARNER, F. T. Caring for new-born chinchillas. *Fur Farming J.* 2(5): 14-15. Mar./Apr. 1949. 45.8 K142

36962 GARNER, F. T. Raising South American chinchillas in Colorado. IX. *Small Stock Mag.* 33(3): 30-31. Mar. 1949. 48.8 P492

36963 GENESEE MOUNTAIN FOX & MINK FARMS, INC. Answering your questions about chinchillas. Denver, 1949? Folder. 412.62 G28A

36964 GROSSE, O. H. Growing better mink. *Natl. Fur News* 21(2): 24. Mar. 1949. 412.628 R59

36965 HEER, A. Expert reports on Scottish [mink and silver fox] farms. Mutation fashion may not endure, "standards" should be chief aim. *Brit. Fur Trade* 30: 466-467. Dec. 1948. 412.628 B77

36966 IRISH, W. E. My experience with nutria. *Fur Farming J.* 2(5): 18. Mar./Apr. 1949. 45.8 K142

36967 JONAS, L. F. How pelting and fleshing should be done. *Black Fox Mag.* 32(11): 15, 30-31, 33-34. Mar. 1949. 410 B56

Mink.

36968 MIRANTZ, M. First fer fur; pets with a purpose. *Cornell Countryman* 46(5): 15, 20. Feb. 1949. 6 C81

Minks.

36969 SCHWAB, G. R. Raising chinchillas in Canada. The Chinchilla brevicaudata. *Fur Trade J. Canada* 26(6): 20, 46, 52. (Cont.) Feb. 1949. 412.628 F963

36970 ZETTY, M. Chinchillas should be inspected daily. *Black Fox Mag.* 32(11): 17, 34. (To be cont.) Mar. 1949. 410 B56

### HORSES AND MULES

#### Breeds and Breeding

36971 ANSCHUTZ, E. J. Híbridos equinos: la producción de mulares. *Res* 17: 23266-23267. Jan. 20, 1949. 286.85 R31

36972 AUSTIN, C. F. A hobby—Morgan horses! *Morgan Horse Mag.* 8(6): 1-4. Dec. 1948. 42.8 M82

36973 BUIATTI, P. G. Raising of half-breed [horses] in Maremma. (In Italian.) *Humus* 5: 7-11. Jan. 1949. 16 H88

36974 CHRISTIAN, R. L. Early retirement to stud seen as favorable reproductive factor. *Thoroughbred Rec.* 149(11): 20, 36. Mar. 12, 1949. 42.8 T39

36975 DIMOCK, W. W. Delayed conception and sterility in broodmares. *Auburn Vet.* 5: 69-70, 83. Winter 1949. 41.8 Aul

36976 DYER, P. Green grass—consider feed when breeding your mare. *West. Livestock J.* 27(17): 182-183. Feb. 15, 1949. 6 F2278

36977 ERRINGTON, B. J. Right time important for breeding of mares. *West. Livestock J.* 27(17): 186, 188. Feb. 15, 1949. 6 F2278

36978 ESTES, J. A., and PALMER, J. H. An introduction to the Thoroughbred horse. 4-8. *Blood-Horse* 55: 419-420, 483-484, 522, 524, 526, 560, 563, 574, 607, 644, 646, 648, 650, 663-664, 701, 703-704, 706. Feb. 12-Mar. 12, 1949. 42.8 T392

36979 FINNEY, H. S. Riding ponies—how bred. *Horse and Mule Assoc. Amer. Book* [i.e. Leaflet] 300: 1-4. 1948? 42.9 H782

36980 FURNAS, P. J. Planned parenthood for Morgans at Earlham College. *Morgan Horse Mag.* 9 i.e. 8: 1-3. Feb. 1949. 42.8 M82

36981 GIUBBILEI, C. The Avelignese horse. (In Italian.) *Allevatore* 4(47): 5. Nov. 21, 1948. 49 AL55

36982 HELLBUSCH, C. E. "The more you use 'em the more you like 'em." That's what cowmen say about Quarter Horses. *West. Livestock J.* 27(17): 153-154, 156-158. Feb. 15, 1949. 6 F2278

36983 HOWELL, C. E. Selecting the sire—correct mating of horses involves science, art, logic, money & luck. *West. Livestock J.* 27(17): 134, 136-137. Feb. 15, 1949. 6 F2278

36984 KILPATRICK, J. My seventy years with Clydesdales, V-IX. *Farming News & North Brit. Agr.* 101(3): 10-11; (4): 10-11; (5): 10-11; (6): 10-11; (7): 2-3. Jan. 14-Feb. 11, 1949. 10 N82

36985 MACEWAN, J. W. G. North American saddle strains. *Canad. Cattleman* 11: 190-191. Mar. 1949. 49 C16

36986 MELDERT, L. VAN. L'ancien haras de l'état belge et son influence sur le développement de la race chevaline belge. *Ann. de Gembloux* 54: 260-264. Fourth Quart. 1948. 13 G28

36987 MORALES, P. T. Las razas caballares; algunas consideraciones sobre las normas de zootecnia y de cría necesarias a la formación de nuevos planteles. *Chacra* 19(220): 16-17. Feb. 1949. 9 C34



36988 MORSE, M. What constitutes an ideal Morgan? Morgan Horse Mag. 8(6): 7-8. Dec. 1948. 42.8 M82

36989 OGOL', N. I. A case of breeding a mule. (In Russian.) Konevodstvo 18(5): 46-47. Sept./Oct. 1948. 46-47. 42.8 K832

36990 RAU, G. Junge vateriere stellen sich vor streiflichter über die hauptkörperungen in Oldenburg, Ostfriesland, Rheinland. Deut. Viehhandel 3(21): 4-5. Nov. 15, 1948. 49 D482

Horses.

36991 SANDUSKY, E. Quarter Horses—origin of breed is mixed with legend. West. Livestock J. 27(17): 146, 148, 150. Feb. 15, 1949. 6 F2278

36992 SHETLAND PONY STUD-BOOK SOCIETY. The Shetland Pony stud-book. Lewes, Baxter, 1948. v. 48, 52 p. 42.9 Sh5

36993 TAYLOR, L. Blood isn't enough—successful and profitable horse production depends on many things. West. Livestock J. 27(17): 128, 130, 132. Feb. 15, 1949. 6 F2278

36994 TAYLOR, L. Conformation—Quarter Horses, like other breeds, often disprove expert opinion on conformation. West. Livestock J. 27(12): 134, 135, 137. Jan. 15, 1949. 6 F2278

36995 THOROUGHBRED BREEDERS' ASSOCIATION. Annual report, 32, 1948. London, 1948. 11 p. 42.9 T39A

36996 TIERSTEIN, V. Stallion training—minimize breeding difficulties with routine care and education. West. Livestock J. 27(17): 138, 140. Feb. 15, 1949. 6 F2278

36997 ZAPPE, H. A. More shows, better breeding and new interest mark PHBA's [Palomino Horse Breeders Association of America] year. West. Farm Life 51 (1, Sect. 2, Ann. Livestock Rev. 1949): 162. Jan. 1, 1949. 6 R153

36998 ZHIVOTKOV, KH. I., and VLASOV, IU. F. Experience in the rationalization of mating horses in droves. (In Russian.) Konevodstvo 18(5): 14-18. Sept./Oct. 1948. 42.8 K832

#### Feeds and Feeding

36999 BLIN, H. Production d'un hectare de fourrage en force motrice. Monit. Agr. 2(59): 2. Feb. 27, 1949. 14 M744

Amount of power obtained from horse and ox for a given quantity of feed.

37000 POPOV, N. F. Physiological basis of dietetic feeding of a horse. (In Russian.) Konevodstvo 18(5): 23-27. Sept./Oct. 1948. 42.8 K832

37001 SKULMOWSKI, J. Namiastkowe żywienie koni kolaczami przy użyciu mączek zwierzęcego pochodzenia i świeżej krwi. The feeding of horses with cakes, containing animal meals and fresh slaughter-house blood, as substitute for oats. Lublin. U. M. Curie-Skłodowska. Ann. Sect. E 3: 63-107. Ref. 1948. 512 L96Ae  
English summary.

#### Veterinary Medicine

37002 AVESSALOMOV, I. S., and BUTYRINA, P. S. Experiment in treatment of dourine with "sovarsen." (In Russian.) Veterinariia 25(6): 16-19. June 1948. 41.8 V6426

New Soviet preparation.

37003 BOSSI, V. Short contribution to the knowledge of periodic ophthalmia. (In Italian.) Buenos Aires U., Facul. de Agron. y Vet. Rev. 12: 8-25. Nov. 1948. 9 B863

37004 BOWER, A. How many worms do you want: a million—or a minimum? Blood-Horse 55: 614-615, 635-636. Mar. 5, 1949. 42.8 T392

37005 BROWN, R. Mechanical pneumonia in a foal. Auburn Vet. 5: 71. Winter 1949. 41.8 Aul  
Injury caused by timothy head in lung.

37006 CHAVANCE, J. Fourbure aiguë du cheval; comment agit la baignation froide. Rev. de Méd. Vét. [Toulouse] (n. s.) 12: 26-30. Jan. 1949. 41.8 R32

37007 CROSFIELD, P., and CHIPPERFIELD, T. A. R. A case of hermaphroditism in a carthorse. Vet. Rec. 61: 101. Feb. 26, 1949. 41.8 V641

37008 DAN, D. The control of surra in horses and camels of Jodhpur State. Indian Vet. J. 25: 280-282. Jan. 1949. 41.8 In2

37009 DARRASPEN, E., and others. Le coefficient chloré érythroplasmatique normal du cheval. Soc. de Biol. Compt. Rend. 142: 1388-1389. Nov. 1948. 442.9 P21

R. Florio, L. Joubert, and J. Foucher, joint authors.

37010 DARRASPEN, E., and others. Variations pathologiques du coefficient chloré érythroplasmatique chez le cheval. Soc. de Biol. Compt. Rend. 142: 1390-1391. Nov. 1948. 442.9 P21

R. Florio, L. Joubert, and R. Louf, joint authors.

37011 DEMICHELIS, L. A. Encefalomyelitis (locura de los caballos). Rev. Mens. Illus. B. A. P. 32(373): 59-60. Dec. 1948. 9 R326

37012 DINSMORE, W. Eyesight impaired in horses by deficiencies in feeds. Horse and Mule Assoc. Amer. Book [i.e. Leaflet] 296, 8 p. 1948? 42.9 H782

37013 EGGERT, O. Gegen das einreiben mit metallischen salben. Tierärztl. Umschau 3: 247-248. Aug. 1948. 41.8 T445

On horses.

37014 ERSHOV, V. S., DEMIDOV, N. V., and PANASUK, D. I. Use of carbon tetrachloride in the treatment of parascariasis and strongylosis in horses. (In Russian.) Veterinariia 25(8): 18-22. Aug. 1948. 41.8 V6426

37015 FEDOTOV, A. I. Cisternal puncture in injecting antitetic serum during the treatment of tetanus in horses. (In Russian.) Veterinariia 25(6): 34-36. June 1948. 41.8 V6426

37016 FOSTER, E. C. Riboflavin as a preventive of [periodic] ophthalmia. Md. Horse 14(3): 22-23, 26-27. Mar. 1949. 42.8 M36

37017 GAIDABUROV, S. D. In regard to the exterior of the draft horse. (In Russian.) Konevodstvo 18(5): 19-22. Sept./Oct. 1948. 42.8 K832

37018 GEROSA, G. Infectious anemia of the horse. (In Italian.) Humus 4(11): 16-17. Nov. 1948. 16 H88

37019 GOEHR, W. Über einen fall von darmverschluss bei einem fohlen. Tierärztl. Umschau 3: 217. July 1948. 41.8 T445

37020 GRUNERT, Z. Comparative studies upon the value of serological methods in the diagnosis of dourine. (In Czech.) Casopis Českoslov. Vet. 3: 685-694. Ref. Dec. 10, 1948. 41.8 C27

37021 HAWKINS, J. D., and BARRETT, E. P. Attempted treatment of strangulated umbilical hernia in a Thoroughbred foal by bowel resection and end-to-end anastomosis. Vet. Rec. 61: 114. Mar. 5, 1949. 41.8 V641

37022 HOLGADO RIVAS, D. E. Un interesante caso de clínica quirúrgica equina. Soc. Rural de Rosario. Rev. 27(321/322): 3-8. Ref. Nov./Dec. 1948. 9 So14

37023 HOWARD, F. A. Granulosa cell tumor of the equine ovary—a case report. Amer. Vet. Med. Assoc. J. 114: 134-135. Mar. 1949. 41.8 Am3

37024 HOWELL, C. E. Horses; stomach worms controlled. Calif. Agr. [Calif. Sta.] 3(3): 16. Mar. 1949. 100 C12Cag

37025 IAMKOVA, I. K., and SHARONIN, I. O. Use of "sovarsen" in the treatment of contagious pleuropneumonia in horses. (In Russian.) Veterinariia 25(6): 41-42. June 1948. 41.8 V6426

37026 KASCHULA, V. R. Treponema theileri of a donkey and its transmission to a calf. So. African Vet. Med. Assoc. J. 19: 100-102. Sept. 1948. 41.8 So8

37027 KHOKHLACHEV. "Dispanserization" as a method of preventing internal noncontagious diseases in horses. (In Russian.) Veterinariia 25(10): 29-31. Oct. 1948. 41.8 V6426

37028 KING, A. S. Studies on equine purpura hæmorrhagica. 3. Morbid anatomy and histology. Brit. Vet. J. 105: 35-54. Ref. Feb. 1949. 41.8 V643

37029 KOCHAN, W. F. Antihistaminic treatment of laminitis. Vet. Med. 43: 487-488. Nov. 1948. 41.8 M69

37030 KOLOMOITSEV, A. Effect of acriflavine and of other acridine compounds on the organism of horses. (In Russian.) Veterinariia 25(6): 41. June 1948. 41.8 V6426

37031 KUZNETSOV, G. S. Topography of skin vessels of the foot of a horse. (In Russian.) Veterinariia 25(8): 29-30. Aug. 1948. 41.8 V6426

37032 MCNELLIS, R. Rattlesnake bite. Amer. Vet. Med. Assoc. J. 114: 145-146. Mar. 1949. 41.8 Am3  
Effect on horses, and treatment.



37033 MANSJOER, M. Tests on the effect of trypan-flavine on surra. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 417-424. Dec. 1948. 41.8 V51  
In horses.

37034 MONTEVERDE, J. J., and SIMEONE, D. H. Embriones de pollo sobrevivientes a la inoculación de una cepa de virus de la encefalomiélitis equina. *Buenos Aires U., Facul. de Agron. y Vet.* 12: 68-79. Ref. Nov. 1948. 9 B863  
English summary.

37035 MORELL, G. Botulisme et parabolulisme des équides. *Rev. Agr. de l'Afrique du Nord* 46: 671-673. Dec. 31, 1948. 80 R326

37036 MORPURGO, E. Research on the reticular tissues in the adrenals of *Equus caballus* at various ages. (In Italian.) *Nuova Vet.* 24: 305-308, 372-376. Sept. 15, Nov. 15, 1948. 41.8 N922

37037 MUTOVIN, V. I. Prophylaxis of equine encephalomyelitis in foci of fixed insecurity. (In Russian.) *Veterinariia* 25(8): 13-17. Aug. 1948. 41.8 V6426

37038 NEFED'EV, A. I. Treatment of tetanus in horses with hexamethylenetetramine and potassium permanganate. (In Russian.) *Veterinariia* 25(6): 36-37 June 1948. 41.8 V6426

37039 NIKANOROV, V. A. Etiology of the ossification of the soft cartilage (of the hoof). (In Russian.) *Veterinariia* 25(8): 31-33. Aug. 1948. 41.8 V6426  
Horses.

37040 OBEL, N. Studies on the histopathology of acute laminitis. Uppsala, Almquist & Wiksell, 1948. 95 p. 41.2 Ob22

Akademisk avhandling - Kungl. Veterinärhögskolans Lärarekollegium, Stockholm.

37041 ORLIACQ, C. El tétano en los equinos. *Vida Agr. [Lima]* 25: 1083, 1085-1086. Dec. 1948. 9.8 V66

37042 PIRES, A. El huérfago o ronquido laríngeo del caballo y las artritis laríngeas. *Gac. Vet.* 10: 266-278. Nov./Dec. 1948. 41.8 G112

English and French summaries.

37043 POPOV, N. F., and KROTKOVA, A. P. Secretory activity of stomach glands in horses during the feeding of animal products. (In Russian.) *Veterinariia* 25(10): 32-34. Oct. 1948. 41.8 V6426

37044 SCHANZEL, H. An unusual course of colic. (In Czech.) *Casopis Českoslov. Vet.* 3: 703-704. Dec. 10, 1948. 41.8 C27  
In a horse.

37045 SEMPE, H. Tratamiento del hormiguillo. *Rev. de Agr. [San José]* 20(12): 489. Dec. 1948. 8 Es1

37046 SIRONI, A. Complement fixation in the diagnosis of glanders. (In Italian.) *Clin. Vet. [Milan]* 71: 385-388. Dec. 1948. 41.8 C61

37047 SMIRNOV, S. I. Clinical study of a splenic abscess in a horse. (In Russian.) *Veterinariia* 25(10): 24-25. Oct. 1948. 41.8 V6426

37048 SUMNER, H. Equine accidents in the fields of sport. *Vet. Med.* 43: 442-445. Nov. 1948. 41.8 M69

37049 TIERSTEIN, V. Internal parasites—proper worm prevention and treatment pays high dividends to horse owners. *West. Livestock J.* 27(12): 146, 149. Jan. 15, 1949. 6 F2278

37050 TRUM, B. F. Gray horse tumors. *Blood-Horse* 55: 731-732. Mar. 19, 1949. 42.8 T392  
Prevalence of melanomas in grays.

37051 TVERETSKII, A. V. Some data on the change in respiration of horses which participated in sport contests. (In Russian.) *Konevodstvo* 18(5): 34-39. Sept./Oct. 1948. 42.8 K832

37052 VILJOEN, W. C. The use of gammexane dips in the control of equine mange. *So. African Vet. Med. Assoc. J.* 19: 105-106. Sept. 1948. 41.8 So8

37053 ZWIETEN, M. VAN. Treatment of saccharomycosis by means of intravenous treatment with potassium iodide and mercuric iodide. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 411-412. Dec. 1948. 41.8 V51

Epizootic lymphangitis in horses (?)

#### Miscellaneous

37054 DELAForge, O. Les chevaux de course: origine—formation—départ. *Monit. Agr.* 2(59): 4. Feb. 27, 1949. 14 M744

37055 DELAForge, O. L'élevage et l'alimentation des chevaux de course. *Monit. Agr.* 2(58): 4. Feb. 20, 1949. 14 M744

37056 DES ALIBERTS, J. Un auxiliaire méconnu: le mulet. *Unité Paysanne* 4(166): 4. Jan. 8, 1949. 14 Un3

37057 DÜRRWAECHTER. Zukunftsfragen der bayerischen pferdezucht. *Landw. Wchnbl.* 138: 461. Dec. 25, 1948. 18 L2338

37058 FOREMAN, M. Horse handling science. 6, 10. *Cattleman* 35(6): 115-116; (10): 122-123. Nov. 1948, Mar. 1949. 49 C29

37059 FUSTER B., O. Tipos, clases y razas de caballos y su presentación para exhibirlos. Ed. 2. Panamá, Impr. Nacional, 1948. 27 p. 42 F98

37060 GIUBBILEI, C. Education of the horse. (In Italian.) *Allevatore* 4(45): 5. Nov. 7, 1948. 49 AL55

37061 GORMAN, J. A. The western horse; its types and training. Danville, Ill., Interstate, 1949. 396 p. 42 G68

37062 KLENIN, M. For the further advancement of collective farm horse raising. (In Russian.) *Konevodstvo* 18(5): 3-6. Sept./Oct. 1948. 42.8 K832

37063 LINN, H. D. Draft horses, hitched single. *Horse and Mule Assoc. Amer. Book [i.e. Leaflet]* 294: 5. 1948? 42.9 H782  
Horse shows.

37064 MARCILHACY. L'actualité hippique en Alsace. *Bas-Rhin Agr.* 4: 77-78. Feb. 12, 1949. 14 B29

37065 MOON, I. The cavalry horse in history. III. *Natl. Horseman* 85(3): 62, 162. Mar. 1949. 47.8 N21

37066 PAINE, E. Horse shows—competitive shows pave the way for more people to enjoy better horses. *West. Livestock J.* 27(17): 166, 168, 170. Feb. 15, 1949. 6 F2278

37067 PALMER, P. Horse breakin'. *West. Livestock J.* 27(17): 174-175. Feb. 15, 1949. 6 F2278

37068 PASSIM, P. Le trait du centre progresse. *J. de la France Agr.* 4: 973, 976. Nov. 19/25, 1948. 14 J829

Draft horses.

37069 SCHREUDER, P. J. V. D. H., and WRIGHT, F. B. The horse on the farm. Union So. Africa. Dept. Agr. B. 293, 130 p. Pretoria, 1948. 24 So84P

37070 SCOTT, M. D. Polygamy—as practiced by the horse. *Natl. Horseman* 85(3): 44, 158. Mar. 1949. 47.8 N21

37071 SHEPPARD, B. Broncho busters and their saddles of fifty years ago. *Canad. Cattleman* 11: 186, 251, 258. Mar. 1949. 49 C16

37072 TEAM, C. B. Condition & records—put stallion & mares in top shape, keep account of the yearly offspring. *West. Livestock J.* 27(17): 120-122. Feb. 15, 1949. 6 F2278

#### LABORATORY ANIMALS, SMALL

##### Feeds and Feeding

37073 LOVE, J. E. Feeding of cavy. *Calif. Rabbits Mag.* 12(8): 14. Mar. 1949. 40.28 Sa5

37074 SHORT, D. J., and PARKES, A. S. Drinking spouts for laboratory animals. *Nature [London]* 163: 292-293. Feb. 19, 1949. 472 N21

##### Veterinary Medicine

37075 BROOM, J. C. The protective value of leptospiral vaccines in hamsters. *Vet. Rec.* 61: 127-128. Ref. Mar. 12, 1949. 41.8 V641

##### Miscellaneous

37076 EATON, O. N. Management and breeding of hamsters. *Amer. Rabbit J.* 19: 22-24. Feb. 1949. 40.28 Am3

37077 GRINSTEAD, F. L. Hamsters, a new industry. *Better Farms* 8(17): 6, 15. Feb. 1. 1949. 6 R462

#### POULTRY

##### Breeds and Breeding

37078 ALBERTELLI, L. B. In chick culture assorted colors are not the style. (In Italian.) *Avvenire Agr.* 56: 320-321. Dec. 1948. 16 Av9



- 37079 ALEXANDER, A. K. S. Heredity not everything; management of breeding stock and incubation conditions greatly affect the quality of chicks hatched. *Farmer & Stock-Breeder* 63: 171. Jan. 18, 1949. 10 F228
- 37080 BEALL, F. Hens will work a 5-day week, if they're the right kind. *Farmer-Stockman* 62(2): 35. Feb. 1949. 6 Ok45  
Poultry breeding.
- 37081 BLACKWELL, H. L. Economic "type" groups instead of breed standards. *Mod. Poultry Keeping* 60: 278. Mar. 9, 1949. 47.8 Eg3
- 37082 BLOUNT, W. P. Are Hy-Line chicks a go? They may not look up to much, but 12,000,000 will be sold this year. *Poultry Farmer* [London] 120(3109): 4. Feb. 4, 1949. 47.8 F312
- 37083 BRILES, W. E. Hens heredity in egg production. *Tex. Farming & Citric* 25(8): 8-9. Feb. 1949. 80 T31
- 37084 BYERLY, T. C. Some facts concerning purebred, crossbred, and hybrid chickens. *Amer. Egg & Poultry Rev.* 10(3): 36, 38. Mar. 1949. 47.8 Am38
- 37085 COLES, R. Certification Marks for the Poultry Stock Improvement Plan. *Gt. Brit. Min. Agr. Agriculture* 55: 410. Dec. 1948. 10 G79J
- 37086 COLES, R. Trap-nesting problems of the pedigree breeder. *Mod. Poultry Keeping* 60: 182-183. Feb. 16, 1949. 47.8 Eg3
- 37087 DAKAN, E. L. What kind of chicks do you want? *Ohio Farmer* 203(3): 44. Feb. 5, 1949. 6 Oh3  
Breeds.
- 37088 DAVIS, C. R. Pullorum control and breed improvement progress. *Md. Poultry Ybk.* 1949: 31. 47.9 M36  
Maryland Poultry Improvement Plan.
- 37089 DOMINGUES, O. Industrial breeding of hens. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 12: 167. July/Sept. 1948. 9.2 R325
- 37090 FOISY, L. L'épreuve de progéniture, le plus important facteur pour l'amélioration de la ponte. *B. des Agr.* 45(1): 18. Feb. 1949. 7 B872
- 37091 GOODALE, H. D. Next step in breeding. The family method of breeding has increased hen-efficiency 100 percent. 300-egg flock averages are possible soon—but why not still better breeding methods? *Hatchery & Feed* 23(3): 53-54, 56. Mar. 1949. 47.8 H28
- 37092 GRIESBACH, L. Poultry breeding research conducted at exp. station. *Marit. Farmer & Co-op. Dairyman* 54(10): 7, 35. Feb. 15, 1949. 7 C77  
In Canada at the Dominion Experimental Farms.
- 37093 HAYS, F. A. Egg size can be controlled by breeding. *New England Homestead* 122(3): 10-11. Feb. 12, 1949. 6 N442
- 37094 HEINROTH, O., and HEINROTH, K. Verhaltensweisen der Felsentaube (Haustaube) *Columba livia* L. *Z. f. Tierpsychol.* 6: 153-201. Ref. Oct. 1948. 410 Z35
- 37095 HEPBURN, J. M. Breeding Bantams at Maidstone. *Austral. Farm & Home* 57(12): 104. Dec. 1, 1948. 23 Au7
- 37096 HEPBURN, J. M. New strains of Buff Leghorns. *Austral. Farm & Home* 58: 87, 88. Jan. 1, 1949. 23 Au7
- 37097 HORTON, D. H. "Here a quack, there a quack." *Rural New-Yorker* 99: 145. Feb. 19, 1949. 6 R88  
Breeds and care of ducks.
- 37098 HUNTER, H. R. The breeder's objective when mating his pens. *Mod. Poultry Keeping* 60: 154-155. Feb. 9, 1949. 47.8 Eg3
- 37099 JEFFREY, F. P. A big question: can high line crossing compete with straight egg production breeding? *New England Homestead* 122(3): 12. Feb. 12, 1949. 6 N442
- 37100 JULL, M. A. Securing good fertility and hatchability. *Md. Farmer* 33(2): 14. Feb. 1949. 6 M362
- 37101 KLEVAY, L. M. Fighting is their business; they're bred for it and they like it. *Amer. Poultry J.* 80(2): 9, 28. Feb. 1949. 47.8 Am32  
Game cocks.
- 37102 KUHN, Die geflügelzucht in U. S. A. *Kleintier-Zücht. Tierbörse* 3(49): 1-2. Dec. 10, 1948. 49 K672
- 37103 LIVET, L. Coup d'œil sur les races de poules. *Paysan Franç.* 24(375): 4-5. Mar. 1949. 14 P29
- 37104 LUTLEY, E. F. Breeding in batteries. *Mod. Poultry Keeping* 60: 210. Feb. 23, 1949. 47.8 Eg3
- 37105 MARSDEN, S. J. An outline for selecting breeding turkeys. *Md. Poultry Ybk.* 1949: 45. 47.9 M36
- 37106 MOODY, J. D. Poultry industry profits through breeding. *Amer. Poultry J.* 80(2): 10, 38-40. Feb. 1949. 47.8 Am32
- 37107 MOORE, A. C. Annual egg target should be 250 per layer. *Poultry* [London] 103: 472. Dec. 14, 1948. 47.8 P869  
Breeding methods.
- 37108 MUNRO, S. S. Our New Hampshire breeding program; end of second year testing New Hamps shows high production, low mortality. *Co-op Chick News* 19 (11, i. e. 12): 10-11. Dec. 1948. 47.8 C783
- 37109 NAGEL, A. Vom werte der alten und seltenen rassen. *Kleintier-Zücht. Tierbörse* 3(50): 2-3. Dec. 25, 1948. 49 K672  
Poultry breeding.
- 37110 NELES, J. M. Breeder, take notice of your business. (In Flemish.) *Pluimvee* 1949: 427. Jan. 1949. 47.8 P72  
Poultry breeding.
- 37111 O'LEARY, T. J. New [poultry] breeds developed. *Amer. Poultry J.* 80(2): 21. Feb. 1949. 47.8 Am32  
White Hollands and Barred Hollands.
- 37112 PIERCE, H. C. The Chicken of Tomorrow. *World's Poultry Cong. Off. Rpt.* 8: 563-573. 1948. 47.9 W898O  
French summary.
- 37113 POWELL-OWEN, W. Manageable flock matings; use of all pullets for breeding is a waste of time and tends towards propagation of entirely undesirable stock. *Poultry World* 84: 117. Feb. 18, 1949. 47.8 P8682
- 37114 POWELL-OWEN, W. Routine of hatching-day; a little more thought to the preparations which precede it would ease the detail work for the pedigree breeder. *Poultry World* 84: 135. Feb. 25, 1949. 47.8 P8682
- 37115 QUILICI, R. The New Hampshire hen. (In Italian.) *Italia Agr.* 86: 58-63. Jan. 1949. 16 It1
- 37116 QUINN, J. P. There may be a boom in breeding for better eggs! *Hatchery & Feed* 22(10): 12, 50-51. Oct. 1948. 47.8 H28
- 37117 RANKIN, J. L. Choose your male bird carefully. *Farmers Weekly* [London] 30(3): 51. Jan. 21, 1949. 10 F2226
- 37118 ROF CODINA, J. La raza Rhode Island Red. *Cult. Mod.* 31: 403-404. Nov. 1948. 15 C89
- 37119 SANCTUARY, W. C. Select for early feathering; here's how progress can be made by proper selection and breeding. *Amer. Poultry J.* 80(3): 6, 11. Mar. 1949. 47.8 Am32
- 37120 SPINNEY, G. G. A question of balance. *Mod. Poultry Keeping* 60: 214. Feb. 23, 1949. 47.8 Eg3  
Pedigree breeding.
- 37121 STOCKBRIDGE, R. R. Poultry breeding, a job for the technician. *World's Poultry Sci. J.* 5: 36-37. Jan./Mar. 1949. 47.8 W89
- 37122 STUCKY, R. L. Hybrid poultry attract interest. *Purdue Agr.* 40(4): 5, 19. Jan. 1949. 6 P97
- 37123 TAYLOR, L. W. The "new look" in genetics and breed standard. *Queensland Co-op.* 3(22): 17, 20. Dec. 16, 1948. 280.28 Q3  
Poultry.
- 37124 VANTRESS, C. D. Broad-breasted meat birds. *Hatchery & Feed* 23(3): 8, 38. Mar. 1949. 47.8 H28  
Breeding.
- 37125 WATERS, N. F. Developments in production of hybrid chicks. *Better Farming Methods* 21(3): 19, 42-43, 62-63. Mar. 1949. 58.8 B46
- 37126 WILGUS, H. S. In-crossbred (hybrid) chicks. *Colo. Rancher & Farmer* 3(4): 27. Feb. 26, 1949. 6 C714
- 37127 WORTHINGTON, J. Inbreeding made difficult; I keep records without a trapnest. *Poultry Farmer* [London] 120(3112): 12-13. Feb. 25, 1949. 47.8 F312



## Feeds and Feeding

- 37128 BEARSE, G. E. High energy fryer rations; high energy rations are here to stay, but somewhat simpler formulas also result in high feed efficiency. *Pacific Poultryman* 53(3): 11, 32-33. Mar. 1949. 47.8 P112
- 37129 BERG, L. R., and BEARSE, G. E. New developments in chicken and turkey rations. *Feedstuffs* 21(10): 40-41. Mar. 5, 1949. 286.81 F322
- 37130 BLOOMFIELD, H. Less feed, more chicken; vitaminized corn is the secret of a new poultry ration that will produce a pound of gain for every two to three pounds that you feed. *Country Gent.* 119(3): 19, 79, 80. Mar. 1949. 6 C833
- 37131 BLOUNT, W. P. What is vit. B<sub>12</sub>? It is the "fish soluble" vitamin which will profoundly affect feed rations. *Poultry Farmer* [London] 120(3113): 6. Mar. 4, 1949. 47.8 F312
- 37132 CALLENBACH, E. W. What about poultry pastures? *Amer. Poultry J.* 80(3): 4, 14. Mar. 1949. 47.8 Am32
- 37133 CASSAMAGNAGHI, F. Feeding standards for poultry. (In Portuguese.) *Granja* [Porto Alegre] 4 (36/37): 56. Sept./Oct. 1948. 9.2 G76
- 37134 CHIPPENDALE, H. Modern poultry swards; cocksfoot or timothy? *Poultry Farmer* [London] 120 (3113): 11. Mar. 4, 1949. 47.8 F312
- 37135 COMBS, G. F. New growth and hatchability factor in animal products. *Md. Poultry Ybk.* 1949: 41. 47.9 M36
- Animal proteins in poultry nutrition.
- 37136 COMBS, G. F. Use more efficient broiler rations. *Md. Poultry Ybk.* 1949: 32-33. 47.9 M36
- 37137 DAM, H., and others. Influence of dietary ascorbic acid, nordihydroguaiaretic acid and cystine on vitamin E deficiency symptoms in chicks. *Biochem. et Biophys. Acta* 2: 501-513. Ref. Dec. 1948. 381 B522
- I. Kruse, I. Prange, and E. Söndergaard, joint authors. Summary in French and German.
- 37138 FRAUSANNA, F. Milk by-products in poultry nutrition. (In Italian.) *Allevamenti nel Mondo* 28: 158-159. July/Aug. 1948. 49 AL56
- 37139 GERICKE, A. M. Fermented grain products as a source of riboflavin. *World's Poultry Sci. J.* 5: 20-23. Jan./Mar. 1949. 47.8 W89
- 37140 GILLIS, M. B. The importance of non-phytin phosphorus for the chick. *Cornell Nutr. Conf. Feed Mfrs. Proc.* 1948: 55-58. 389.79 C81
- 37141 GRAHAM, W. F. Basic principals of poultry and livestock nutrition. *Marit. Farmer & Co-op. Dairyman* 54(10): 10. Feb. 15, 1949. 7 C77
- 37142 GRASSL, H. W. Vitamin A in the poultry life cycle. *Amer. Feed & Grain Dealer* 32(11): 16-18. Jan. 1949. 298.8 C93
- 37143 GRAU, C. R. Amino acid problems of poultry nutrition. *Cornell Nutr. Conf. Feed Mfrs. Proc.* 1948: 7-12. 389.79 C81
- 37144 HALE, R. W., and BOLTON, W. Sesame cake meal as a protein concentrate for laying pullets. *J. Agr. Sci. [London]* 38: 437-439. Oct. 1948. 10 J822
- 37145 HANNAS, R. R. Farm develops feeds. *Amer. Poultry J.* 80(2): 3, 20-21. Feb. 1949. 47.8 Am32
- For poultry.
- 37146 HAYES, T. B. No "best" system for feeding hens. *Wis. Agr. & Farmer* 76(2): 43. Jan. 15, 1949. 6 W751
- 37147 HEUSER, G. F., and HILL, F. W. Home-grown grains in poultry rations. *Amer. Feed & Grain Dealer* 32(11): 11. Jan. 1949. 298.8 C83
- 37148 HEUSER, G. F. Pantothenic acid requirements of chickens. *Cornell Nutr. Conf. Feed Mfrs. Proc.* 1948: 23-24. 389.79 C81
- 37149 HØIE, J. Experiments with fish solubles; presswater from herring meal factories in chicken feed rations. (In Norwegian.) *Norsk Landbr.* 15: 93-95. Mar. 4, 1949. 11 N8122
- 37150 HUTTAR, J. Sulfaquinoxaline. *G. L. F. Week. Serv. Sched.* 13(35): 1-2. Feb. 28, 1949. 280.28 G113W
- In chick starters.
- 37151 JOHNSON, R. D. Is station feeding practical? *U. S. Egg & Poultry Mag.* 55(3): 17-19. Mar. 1949. 286.85 Eg3
- 37152 JULL, M. A. Advantages of poultry pastures. *Rural New-Yorker* 99: 76, 90. Feb. 5, 1949. 6 R88
- 37153 JULL, M. A. Feeding for high hatchability. *Md. Poultry Ybk.* 1949: 17. 47.9 M36
- 37154 MCGINNIS, J. Yeast in poultry diets. Resume of work being conducted to provide economical protein for chickens and turkeys. *Amer. Egg & Poultry Rev.* 10(3): 58-59. Mar. 1949. 47.8 Am38
- 37155 MANI, K. V., NIKOLAICZUK, N., and MAW, W. A. Flaxseed mucilage and its effect on the feeding value of linseed oil meal in chick rations. *Sci. Agr.* 29: 86-90. Ref. Feb. 1949. 7 Sci2
- 37156 MERWE, J. A. VAN DER. Bran back again in poultry rations. (In Afrikaans.) *S. A. P. A. Poultry B.* 12(134): 15, 22. Nov. 1948. 47.8 So89
- 37157 MICHEL, M. G. Turkeys thrive on Ladino range. *Wash. Farmer* 74: 158. Mar. 3, 1949. 6 R151
- 37158 MONTAGNA, A. Poultry feeding. (In Italian.) *Allevamenti nel Mondo* 28: 164-165. July/Aug. 1948. 49 AL56
- 37159 OLSSON, N. Experiments concerning importance of fiber content in poultry nutrition. (In Swedish.) Sweden. *Lantbrukshögsk. Husdjursförsöksanst. Särtryck och Förhandsmeddel.* 68, 7 p. 1948. 49.9 Up6
- 37160 RAIMO, H. F. Principal feeds for poultry. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 12: 142-145. July/Sept. 1948. 9.2 R325
- 37161 RICE, W. H. Ladino clover pastures reduce poultry production costs. *Md. Poultry Ybk.* 1949: 59. 47.9 M36
- 37162 ROBERTSON, E. I. Why poultry feeds are better. *Poultry Tribune* 54(10): 6, 37-38. Nov. 1948. 47.8 P8642
- 37163 SCOTT, M. L. Recent studies in turkey nutrition. *Cornell Nutr. Conf. Feed Mfrs. Proc.* 1948: 37-42. 389.79 C81
- 37164 SILKER, R. E. Carotene and vitamin A problems. *Feedstuffs* 21(11): 17-18, 20. Mar. 12, 1949. 286.81 F322
- Poultry feeding.
- 37165 SQUIRES, A. G. Folding hens over young wheat. *Poultry Farmer* [London] 120(3112): 11. Feb. 25, 1949. 47.8 F312
- 37166 STEEN. Schleswig-Holsteinische gänsezucht. *Kleintier-Zücht. Tierbörse* 3(50): 3-4. Dec. 25, 1948. 49 K672
- 37167 TOMHAVE, A. E. Feed broilers to heavier weights. *South. Planter* 110(2): 26-27. Feb. 1949. 6 So89
- 37168 TRENT, A. D. Appetites vary: it is the flock which must be catered for. *Poultry World* 84: 79. Feb. 4, 1949. 47.8 P8682
- 37169 UPTON, E. W. Will you buy dried grass this year? *Poultry Farmer* [London] 120(3112): 6. Feb. 25, 1949. 47.8 F312
- 37170 VANDERVORT, V. The poults haven't been neglected. *G. L. F. Week. Serv. Sched.* 13(35): 4. Feb. 28, 1949. 280.28 G113W
- Feeding.
- 37171 VANDERVORT, V. Sulfaquinoxaline mash—when to have on hand and how much. *G. L. F. Week. Serv. Sched.* 13(37): 1-2. Mar. 14, 1949. 280.28 G113W
- For chicks.
- 37172 WHITFIELD, W. R. Teach your chicks to eat right. *Successful Farming* 47(3): 130-132. Mar. 1949. 6 Su12
- 37173 WHITTLE, T. E. Chick feeding from day-old to eight weeks. *Mod. Poultry Keeping* 60: 280-281, 310. Mar. 9-16, 1949. 47.8 Eg3
- 37174 WOODWARD, D. F., BOUCHER, R. V., and MURPHY, R. R. Growers have choice of four desirable variations in mixing broiler rations. *Sci. Farmer* [Pa. Sta.], 1949: 4. Mar. 1949. 100 P381

## Veterinary Medicine

- 37175 ATKINSON, J. M. Pullorum tolerance; ninth annual survey. *Hatchery & Feed* 22(10): 38-39. Oct. 1948. 47.8 H28
- 37176 BERTHELOU, and TOURNUT. La peste aviaire en France; son identification dans la région toulousaine. *Rev. de Méd. Vét. [Toulouse]* (n. s.) 12: 21-26. Jan. 1949. 41.8 R32



- 37177 BHADURY, S. K. Fowl cholera—some interesting features in a sub-acute outbreak. *Indian Vet. J.* 25: 278-280. Jan. 1949. 41.8 In2
- 37178 BINNS, W., NIELSEN, H. M., and MINER, M. L. Severe Newcastle disease outbreak causes serious losses to Utah poultry industry. *Farm & Home Sci. [Utah Sta.]* 10: 1-2, 17. Mar. 1949. 100 U1F
- 37179 BONADUCE, A. Research on the reduction of methylene blue on the part of the virus of Italian Newcastle disease. (In Italian.) *Clin. Vet. [Milan]* 71: 377-380. Ref. Dec. 1948. 41.8 C61
- 37180 BÜRGISSE, H. Contribution à l'étude du rouget du porc chez les volailles. *Schweiz. Arch. f. Tierheilk.* 91: 82-84. Feb. 1949. 41.8 Sch9  
German summary.  
Cases in geese and turkeys.
- 37181 CHILDS, T. Instructions for fieldman encountering Newcastle disease. *Canada Poultryman* 36: 25-26. Jan. 1949. 47.8 C166
- 37182 COLES, J. D. W. A. Bumblefoot of fowls. *Farming So. Africa* 23: 799-800. Dec. 1948. 24 So842
- 37183 COLES, J. D. W. A. Fowl typhoid. *Farming So. Africa* 23: 802-804. Dec. 1948. 24 So842
- 37184 COLES, J. D. W. A. Overheating and chilling of chickens. *Farming So. Africa* 23: 829-830. Dec. 1948. 24 So842
- 37185 COMAR, C. L., and DRIGGERS, J. C. Secretion of radioactive calcium in the hen's egg. *Science* 109: 282. Mar. 18, 1949. 470 Sci2
- 37186 DAUPHINÉ, C. Traitez la peste aviaire menaçante. *Vie à la Campagne* 38: 51. Feb. 1949. 80 V67
- 37187 DELAPLANE, J. P. The chronic respiratory disease [of poultry]. *New England Homestead* 122(3): 30. Feb. 12, 1949. 6 N442
- 37188 DEVOLT, H. M. Vioform as an aid to the control of blackhead of turkeys. *Md. Poultry Ybk.* 1949: 69. 47.9 M36
- 37189 DINTER, Z. Atypische hühnerpest und Newcastle-krankheit; ein identifizierungsversuch. *Tierärztl. Umschau* 3: 244-247. Ref. Aug. 1948. 41.8 T445
- 37190 DJAENOEDIN, R. A couple of cases of bone fractures in chicken. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 427-429. Dec. 1948. 41.8 V51
- 37191 DOSSIN, C. O., and GORDEUK, S., JR. Preventing poultry diseases. *Pa. State Col. Agr. Ext. C.* 322, 26 p. Nov. 1948. 275.29 P38C
- 37192 DVORAK, F. G. Essais d'un traitement collectif de la diphtérie aviaire. *Colon Franç. de Tunisie* 59(2083): 1, 3. Jan. 22, 1949. 24 C712
- 37193 FLETCHER, D. E., and RIGDON, R. H. Neurologic manifestations associated with vitamin A deficiency in young ducks; a clinical and pathologic study. *Arch. Neurol. & Psychiat.* 61: 199-209. Ref. Feb. 1949. 448.8 Ar292
- 37194 FOSTER, T. Disease prevention in baby chicks. *Rural New-Yorker* 99: 147. Feb. 19, 1949. 6 R88
- 37195 FOX, M. H. Analysis of some phases of melanoblast migration in the Barred Plymouth Rock embryos. *Physiol. Zool.* 22: 1-22. Ref. Jan. 1949. 410 P56
- 37196 FREIRE, J. J. Ornithostrongylosis in Carrier pigeons. (In Portuguese.) *Rio Grande do Sul. Dir. da Prod. Anim. B.* 4(6): 12-20. June 1948. 49.9 R47
- 37197 GLOVER, J. S. Poultry disease problems in Ontario. *Canad. J. Compar. Med.* 13: 44-49. Feb. 1949. 41.8 C162
- 37198 GORDON, R. F. Common diseases of turkeys. *Poultry World* 84: 136. Feb. 25, 1949. 47.8 P8682
- 37199 GUSS, S. B. Treatment of infectious coryza of chickens with sodium sulfamerazine. *Vet. Med.* 44: 178. Apr. 1949. 41.8 M69
- 37200 HANSON, R. P., and others. Heat stability of hemagglutinin of various strains of Newcastle disease virus. *Soc. Expt. Biol. and Med. Proc.* 70: 283-287. Feb. 1949. 442.9 So1  
E. Upton, C. A. Brandly, and N. S. Winslow, joint authors.
- 37201 HENDERSON, E. W., and CHAMPION, L. R. Relationship between speed of hatching and growth rate of chicks. *Amer. Egg & Poultry Rev.* 10(3): 46, 48, 66. Mar. 1949. 47.8 Am38
- 37202 HUTTAR, J. Coccidiosis, poultry enemy No. 1. *Amer. Agr.* 146: 144, 147. Mar. 5, 1949. 6 Am3
- 37203 IRWIN, W. E. New ways to fight poultry parasites. *Successful Farming* 47(3): 164-167. Mar. 1949. 6 Sul2
- 37204 IYER, S. G. Control of poultry mortality in India. *Indian Farming* 9: 335-337. Aug. 1948. 22 In283
- 37205 KENNARD, D. C., and CHAMBERLIN, V. D. Experiences with Newcastle disease. *Ohio Farm & Home Res. [Ohio Sta.]* 33: 176-179. Nov./Dec. 1948. 100 Oh3S
- 37206 KRAUS, C. Eileiterverkrankung bzw. legenot der hühner. *Landfrau* 4: 22. Jan. 1949. 18 L2337
- 37207 LEE, C. E. Our experience with Newcastle vaccination. *Canad. Poultry Rev.* 73(3): 8, 19-20, 22-24. Mar. 1949. 47.8 C16
- 37208 MCGHEE, R. B. The course of infection of *Plasmodium gallinaceum* in duck embryos. *J. Infect. Dis.* 84: 98-104. Ref. Jan./Feb. 1949. 448.8 J821
- 37209 MCGHEE, R. B. Pre-erythrocytic development of *Plasmodium gallinaceum* in avian [chick] embryos. *J. Infect. Dis.* 84: 105-110. Ref. Jan./Feb. 1949. 448.8 J821
- 37210 MCNEIL, E. Hexamitiiasis of turkey poults. *Nulaid News* 26(11): 20-21. Mar. 1949. 47.8 N917
- 37211 MARKHAM, F. S., COX, H. R., and BOTTORFF, C. A. Vaccinate for Newcastle. *Utah Farmer* 68(10): 29. Jan. 8, 1949. 6 D45
- 37212 MOULTHROP, I. M. Observations on vaccination for Newcastle disease. *Md. Poultry Ybk.* 1949: 67. 47.9 M36
- 37213 NICHOL, C. A., and others. The growth response of chicks to antipernicious anemia preparations. *J. Biol. Chem.* 177: 631-639. Ref. Feb. 1949. 381 J824  
A. R. Robblee, W. W. Cravens, and C. A. Elvehjem, joint authors.
- 37214 PISTOR, W. J. Newcastle disease. *Ariz. Agr. Col. Ext. Folder* 57, 4 p. Feb. 1949. 275.29 Ar42Ext
- 37215 QUIN, J. I. Variations in the comb growth of cocks in response to stilboestrol treatment. *So. African Sci.* 2: 100-102. Nov. 1948. 475 So8
- 37216 RASPINI, J. M. Estudio histológico de la bolsa de Fabricio. *Buenos Aires. Cent. de Estud. de Med. Vet. Rev.* 17(26): 51-62. Ref. Apr./June 1948. 41.9 B86  
In chickens.
- 37217 RODÓN, J. M. De la peste aviar reinante. *Cult. Mod.* 31: 404. Nov. 1948. 15 C89
- 37218 ROMANOFF, A. L., and ROMANOFF, A. J. The avian egg. *New York, Wiley,* 1949. 918 p. 413 R66
- 37219 ROTHCHILD, I., and FRAPS, R. M. The induction of ovulating hormone release from the pituitary of the domestic hen by means of progesterone. *Endocrinology* 44: 141-149. Ref. Feb. 1949. 448.8 En2
- 37220 ROTHCHILD, I., and FRAPS, R. M. The interval between normal release of ovulating hormone and ovulation in the domestic hen. *Endocrinology* 44: 134-140. Ref. Feb. 1949. 448.8 En2
- 37221 SALVADOR, A. N. Fowl pest. (In Portuguese.) *Vida Agr. [Lisboa]* 11(64): 2. Mar./Apr. 1948. 15.5 V66
- 37222 SILVA GOYTIA, R. Ornithosis (psittacosis) en México. Incidencia en palomas y gallinas. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9: 231-234. Ref. Sept. 1948. 449.9 M572  
English summary.
- 37223 SMITH, C. H. Implications of coccidiosis treatments. *Mod. Poultry Keeping* 60: 154-155. Feb. 9, 1949. 47.8 Eg3
- 37224 SROKA. Die rachitis des geflügels. *Landfrau* 4: 22. Jan. 1949. 18 L2337
- 37225 SZYFRES, B., TRENCH, H., and ABARACON, D. Intoxicación botulínica des canards. *Off. Internatl. des Epizoot.* B. 29: 431-437. Nov./Dec. 1948. 41.8 Of2
- 37226 TRAGER, W. The resistance of egg-laying ducks to infection by the malaria parasite *Plasmodium lophurae*. *J. Parasitol.* 34: 389-393. Ref. Oct. 1948. 448.8 J824



- 37227 TRENCH, H., SZYFRES, B., and ABARACON, D. Laryngo-trachéite infectieuse des poules; son observation en Uruguay. *Off. Internatl. des Epizoot. B.* 29: 426-430. Ref. Nov./Dec. 1948. 41.8 Of2
- 37228 VERGE, J., and TURBÉ-BION, M. Le diagnostic de la tuberculose aviaire par la myéloculture. *Soc. de Biol. Compt. Rend.* 142: 1208-1209. Oct. 1948. 442.9 P21
- 37229 VONDELL, J. H. From cock bird to capon. The use of sex hormone pellets may help you to turn low quality stags into top rate meat birds in four to six weeks. *Everybody's Poultry Mag.* 54(4): 7, 32. Apr. 1949. 47.8 F213P
- 37230 WAGENER, K. Die kriegsverseuchung Deutschlands mit geflügelpest in epizootologischer betrachtung. Berlin. u. München. *Tierärztl. Wchnschr.* 1948: 61-65. Ref. June 1948. 41.8 B45
- 37231 WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Infectious laryngotracheitis and infectious bronchitis of chickens. *Wash. State Col. Ext. B.* 372, 7 p. Mar. 1948. (Poultry Pointers 8, rev.) 275.29 W27P
- 37232 WITTER, F., and REED, F. D. Coccidiosis can be controlled. *World's Poultry Sci. J.* 5: 24-27. Jan./Mar. 1949. 47.8 W89
- 37233 WORCESTER, P. F. Coccidiosis on the run; with sulfaquinoxaline and other new drugs now available, there is no reason why any poultryman should have heavy losses from coccidiosis. *Everybody's Poultry Mag.* 54(4): 10, 17-18. Apr. 1949. 47.8 F213P
- 37234 YOHE, R. S. What is the truth about Newcastle vaccines? *Prairie Farmer, Gen. Ed.* 121(3): 48-50. Feb. 5, 1949. 6 P883
- Miscellaneous
- 37235 ALEXANDER, A. K. S. Comfort during cold weather. *Farmer & Stock-Breeder* 63: 291. Feb. 1, 1949. 10 F228  
Poultry care.
- 37236 ALEXANDER, A. K. S. Flying flock on limestone. *Farmer & Stock-Breeder* 63: 355. Feb. 8, 1949. 10 F228  
Colony and range system.
- 37237 ALEXANDER, A. K. S. Laying batteries on farms. *Farmer & Stock-Breeder* 63: 479. Feb. 22, 1949. 10 F228
- 37238 BEALBY, D. Ducks by the thousand. They like to bury their eggs. *Poultry Farmer [London]* 120(3110): 7. Feb. 11, 1949. 47.8 F312
- 37239 BENEY, P. A. Prompt action will 'cure' broodiness; the longer a broody is left on the nest, the longer she will be out of production. *Poultry World* 84: 138. Feb. 25, 1949. 47.8 P8682
- 37240 BICE, C. M. Artificial illumination of poultry. *Hawaii. U. Agr. Ext. C.* 260, 3 p. Jan. 1949. 275.29 H312Ac
- 37241 BICE, C. M. Culling poultry. *Hawaii. U. Agr. Ext. C.* 181, rev., 6 p. Nov. 1948. 275.29 H312Ac
- 37242 BIRD, H. R. Poultry research at the Agricultural Research Center. *World's Poultry Sci. J.* 5: 5-10. Jan./Mar. 1949. 47.8 W89
- 37243 BLACKWELL, H. L. Good stockmanship will reduce chick mortality. *Mod. Poultry Keeping* 60: 182-183. Feb. 16, 1949. 47.8 Eg3
- 37244 BLACKWELL, H. L. Planned rearing. *Mod. Poultry Keeping* 60: 147. Feb. 9, 1949. 47.8 Eg3
- 37245 BLOUNT, W. P. Pea-nut hulls for deep litter. *Mod. Poultry Keeping* 60: 273. Mar. 9, 1949. 47.8 Eg3
- 37246 BODWELL, J. H. A farm flock and a man over sixty-five. *New England Homestead* 122(3): 5. Feb. 12, 1949. 6 N442  
Management of a poultry farm.
- 37247 BORDWELL, C. B. Poult sexing gains in the Northwest. Many growers find flocks finish better; various other advantages have boosted the idea. *Turkey World* 24(3): 20, 70-72. Mar. 1949. 47.38 T84
- 37248 BROWN, T. T. 4-H Club work trains poultrymen. *South. Planter* 110(2): 22, 46. Feb. 1949. 6 So89
- 37249 BURMESTER, C. M. Poultry in Alaska. *Pacific Poultryman* 53(2): 48-49, 54-55. Feb. 1949. 47.8 P112
- 37250 BURTON, F. How many seasons? Impress of the longevity factor in breeders' stocks prompts some timely questions. *Poultry World* 84: 156-157. Mar. 4, 1949. 47.8 P8682
- 37251 BURTON, F. Second-year battery layers. How many pullets do well enough under this system to warrant retention for another season? *Poultry World* 84: 95-96. Feb. 11, 1949. 47.8 P8682
- 37252 BUTTNER, E. E. Experiments with baby pigeons. *So. African Poultry, Pigeon & Bird Mag.* 74 (445): 29-30. Feb. 1949. 47.8 So83
- 37253 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Suggestions for 4-H Club members [on] poultry brooding, by P. C. Barker and W. E. Newlon. Berkeley, 1948. 4 p. 275.29 C122F
- 37254 CASTILLO ROYO, J. DEL. La explotación y cría del pavo. *Cult. Mod.* 31: 443-444. Dec. 1948. 15 C89
- 37255 CASTRO BIEDMA, P. El gallinero en verano. *Pampa Argentina* 22(256): 14-15, 47. Dec. 1948. 9 P19
- 37256 CHARLES, T. B. Keeping up egg production. *Rural New-Yorker* 99: 107. Feb. 5, 1949. 6 R88
- 37257 CHRISTENSEN, A. Slaughtering of geese. (In Danish.) *Tidsskr. for Husholdning* 27: 151-152. Dec. 15, 1948. 321.8 T43
- 37258 COLES, J. D. W. A. Hygiene on the turkey farm. *Farming So. Africa* 23: 823-824, 828. Dec. 1948. 24 So842
- 37259 COLT, S. The egg and sigh. *Cornell Country man* 46(5): 10, 22. Feb. 1949. 6 C81  
Chores on a poultry farm.
- 37260 CRAVEN, C. School for poultrymen. *Natl. Co. Agent* 5(2): 14-15. Feb. 1949. 275.28 N213
- 37261 DAVISON, A. Why not keep geese? *Country Life [London]* 105: 428-429. Feb. 25, 1949. 80 C83
- 37262 DOOLEY, J. C. How to save your chicks. *Farm & Ranch* 68(3): 35-37. Mar. 1949. 6 T31
- 37263 DREWRY, D. Ducklings in confinement. *Mod. Poultry Keeping* 60: 147. Feb. 9, 1949. 47.8 Eg3
- 37264 DREWRY, D. Hatching time for ducklings. *Mod. Poultry Keeping* 60: 218. Feb. 23, 1949. 47.8 Eg3
- 37265 EISEN, H. Poultry and rabbit keeping. Worcester, Eng. Littlebury, 1948. 125 p. 47 E182
- 37266 ENGELMANN, C. Auslaufgrenzen unbeschränkt gehaltener hühner. *Z. f. Tierpsychol.* 6: 262-271. Oct. 1948. 410 Z35  
Observations on behavior.
- 37267 ERICKSEN, S. Chix time again; some pointers to help you raise them. *Cent. Exch. Messenger* 2(4): 19-20. Mar. 1949. 280.28 C33
- 37268 FINLAYSON, H. H. Sexual (?) display in the domestic turkey. *So. Austral. Ornith.* 19: 25. Oct. 1948. 413 So8
- 37269 FOARD, E. L. Improving hatchability. *Mod. Poultry Keeping* 60: 251. Mar. 2, 1949. 47.8 Eg3
- 37270 FOISY, L. Parquets de reproduction R.O.P. *Avic. Québécois* 3(12): 10-11. Dec. 1948. 47.8 Av55  
Poultry.
- 37271 FOSTER, G. Go steady when starting up. *Smallholder* 80(2025): 16. Jan. 21, 1949. 10 Sml  
Poultry care.
- 37272 FRONDA, F. M. Capons for Christmas. *Agr.-Com.-Indus. Life* 10(12): 4, 41. Dec. 1948. 25 Ag8
- 37273 GEORGE, E. W. N. B. poultry producers reorganize. *Marit. Farmer & Co-op. Dairyman* 54(10): 6, 34-35. Feb. 15, 1949. 7 C77  
New Brunswick Poultry Producers Inc.
- 37274 GOODING, P. H. A guide to poultry farming in South Carolina. *Clemson Agr. Col. S. C. Ext. C.* 318, 30 p. Sept. 1948. 275.29 So8E
- 37275 GRANT, R. Poultry keeping is profitable today. *Grower [London]* 31: 347. Feb. 19, 1949. 286.83 M34  
Poultry care.
- 37276 GUÉRANDE, C. L'oie commune. *Rustica* 22: 125. Feb. 13, 1949. 14 R92
- 37277 GUÉRANDE, C. Poussins d'un jour. *Rustica* 22: 85. Jan. 30, 1949. 14 R92  
Care.



- 37278 HALL, M. D. Chick sexing; results of examination. Victoria. Dept. Agr. J. 46: 546-547. Dec. 1948. 23 V66J
- 37279 HANSON, J. A. Good pullets spell success. Pacific Poultryman 53(3): 5, 52-54. Mar. 1949. 47.8 P112
- 37280 HANSON, R. M. The Eighth World's Poultry Congress. Pacific Poultryman 52(10): 30-31. Nov. 1948. 47.8 P112
- 37281 HEALE, W. I'm not fussy about clean chick litter. Poultry Farmer [London] 120(3112): 7. Feb. 25, 1949. 47.8 F312
- 37282 HUMBERT, W. L'élevage des dindes. Acclimatation 76: 29. Feb. 5, 1949. 14 Ac2
- 37283 HUNT, M. N. Fits in well as sideline. New England Homestead 122(4): 5, 6. Feb. 26, 1949. 6 N442
- Raising poultry.
- 37284 HUTT, F. B. Why test for 365 days? Family records and need for labor-saving, suggest shorter trapping period to qualify for ROP. Might mean more eggs, too. Hatchery & Feed 23(3): 26, 28-29. Mar. 1949. 47.8 H28
- 37285 HUTTAR, J. Litter dry. G. L. F. Week. Serv. Sched. 13(33): 3-4. Feb. 14, 1949. 280.28 G113W
- Poultry litter.
- 37286 HUTTON, J. Keeping Bantams for eggs. Poultry [London] 104: 155. (To be cont.) Feb. 22, 1949. 47.8 P869
- 37287 IVES, P. Raise your own geese. Rural New-Yorker 99: 155, 209. Mar. 5, 1949. 6 R88
- 37288 JENKINS, G. M. Geese are profitable; they "rustle" practically all their feed and require very little care. Amer. Poultry J. 80(2): 8, 30-31. Feb. 1949. 47.8 Am32
- 37289 JULL, M. A. Planning for the future. World's Poultry Sci. J. 5: 12-18. Jan./Mar. 1949. 47.8 W89
- 37290 JULL, M. A. Turkey hatching eggs need careful handling. Canada Poultryman 36: 4-5. Jan. 1949. 47.8 C166
- 37291 KIESEWETTER, H. Hühnerpflege im winter. Landw. Wchnbl. 2: 21. Jan. 8, 1949. 18 L2338
- 37292 KOPP, L. J. Skunks, 'possums and weasels like poultry; here are a few pointers in trapping these animals. Amer. Poultry J. 80(2): 18, 50, 52. Feb. 1949. 47.8 Am32
- 37293 LEADER, G. A. How to get more eggs. You've got to know your birds and keep them satisfied and content at all times to obtain maximum egg production throughout the year. Everybodys Poultry Mag. 54(4): 9, 34-37. Apr. 1949. 47.8 F213P
- 37294 LEE, C. E. Profitable poultry management. Cayuga, N. Y., Beacon Milling Co., 1948. 270 p. 47 L51
- 37295 LEGENDRE, G. A côté de ses plumes et de son duvet l'oie blanche du Poitou donne aussi un important poids de chair. J. de la France Agr. 5: 20. Jan. 14/20, 1949. 14 J829
- 37296 LIVET, L. L'incubation. Paysan Franç. 24 (373): 5. Jan. 1949. 14 P29
- 37297 LIVET, L. Les poussins. Paysan Franç. 24 (374): 5-6. Feb. 1949. 14 P29
- 37298 LLOYD-THOMAS, W. Who owns the best geese? Grazing trials might tell us. Mod. Poultry Keeping 60: 246. Mar. 2, 1949. 47.8 Eg3
- 37299 MANGOLD, E. Dotterfarbe und nährwert der eier. Land Wald u. Gart. 3: 171. July 1948. 18 L22
- 37300 MARINI, S. The winged pig. (In Italian.) Allevamenti nel Mondo 28: 152-153. July/Aug. 1948. 49 AL56
- Geese.
- 37301 MARYLAND STATE POULTRY COUNCIL. Maryland poultry yearbook, 1949, 72 p. n. p., 1949. 47.9 M36
- 37302 MILLER, J. P. 4-H broilers, fryers, roasters and capons. Wash. State Col. Ext. 4-H C. 63, 8 p. Jan. 1949. 275.29 W27Fh
- 37303 MITCHELL, H. Wild chickens are profitable. Amer. Poultry J. 80(3): 32, 46-47. Mar. 1949. 47.8 Am32
- Raising pheasants, quail, and Mallard ducks.
- 37304 MOORE, A. C. Geese are profitable—if management is good. Poultry [London] 104: 152. Feb. 22, 1949. 47.8 P869
- 37305 NIKITIN, V. P. Ptifsevodstvo [Poultry farming]. Moskva, Sel'khozgiz, 1948. 672 p. 47 N58
- 37306 NORDSKOG, A. W., and CRUMP, S. L. Systematic and random sampling for estimating egg production in poultry. Biometrics 4: 223-233. Dec. 1948. 442.8 B5224
- 37307 NORTH, M. O. Preventing poult problems. Rural New-Yorker 99: 114, 115. Feb. 5, 1949. 6 R88
- 37308 OGLE, R. C. Is your [poultry] flock growing? Breeder's Gaz. 114(4): 30. Apr. 1949. 49 B74
- 37309 OGLE, R. C. Making better poultry meat. Breeder's Gaz. 114: 18-19. Jan. 1949. 49 B74
- 37310 PARRISH, C. F. For higher poultry profits and less disease—clean brooding. Prog. Farmer, Car.-Va. Ed. 64(3): 140. Mar. 1949. 6 P945
- Chick care.
- 37311 PARRISH, C. F. Grow healthier chicks. Prog. Farmer, Car.-Va. Ed. 64(2): 120. Feb. 1949. 6 P 945
- 37312 PAYNE, L. F. Poultry management. Kans. Agr. Expt. Sta. C. 244, 78 p. Feb. 1948. 100 K13S
- Circular 178 revised.
- 37313 PHILLIPS, A. E. H. Pullets by the thousand; how farmer, cattle and land can benefit from the rearing of pullets in fold units. Farmers Weekly [London] 30 (7): 55. Feb. 18, 1949. 10 F2226
- 37314 PLATT, C. S. Egg laying tests record for 1948. Rural New-Yorker 99: 113. Feb. 5, 1949. 6 R88
- 37315 PLATT, F. L. Broilers are profitable. Amer. Poultry J. 79(12): 22, 24-25. Dec. 1948. 47.8 Am32
- 37316 PONSIGNON, M. Comment transposerez-vous les données d'élevage familial? Vie à la Campagne 38: 50-51. Feb. 1949. 80 V67
- Poultry.
- 37317 POWELL-OWEN, W. Cull well—cull early. Poultry World 84: 156. Mar. 4, 1949. 47.8 P8682
- 37318 POWELL-OWEN, W. Faults are magnified; uncovered in the incubator room, they call for closer co-operation between hatcher, rearer and stockman. Poultry World 84: 79. Feb. 4, 1949. 47.8 P8682
- 37319 POWELL-OWEN, W. Learning the lessons of tramping; deterioration in the shape and texture of the eggs must be scored against individual layers. Poultry World 84: 176. Mar. 11, 1949. 47.8 P8682
- 37320 POWELL-OWEN, W. Uniformity of growth is the rearer's first aim which he achieves by keeping to a strict routine. Poultry World 84: 95. Feb. 11, 1949. 47.8 P8682
- 37321 QUIGLEY, G. D. Producing hatching eggs for Maryland's broiler industry. Md. Poultry Ybk. 1949:13. 47.9 M36
- 37322 REED, F. D. What the Maine Broiler Test shows. New England Homestead 122(3): 13, 14. Feb. 12, 1949. 6 N442
- 37323 RHEINGANTZ, O. L. O. Raising hens in confinement. (In Portuguese.) Granja [Porto Alegre] 4(36/37): 48-49. Sept./Oct. 1948. 9.2 G76
- 37324 ROBINSON, J. Pigeons and squabs. Rural New-Yorker 99: 206. Mar. 5, 1949. 6 R88
- 37325 ROY, J. B. L'aviculteur doit demeurer confiant. Terre de Chez Nous 21(17): 20. Jan. 19, 1949. 7 T27
- 37326 ROY, J. B. Quel doit-être votre programme avicole? Terre de Chez Nous 21(19): 10. Feb. 2, 1949. 7 T27
- 37327 SAMAT, M. Jeunes poussins. Réveil Agr. 58: 56-57. Feb. 15, 1949. 14 R322
- 37328 SEYFARTH, W. Hühnereier mit dunkelgelbem dotter. Land Wald u. Gart. 3: 171. July 1948. 18 L22
- 37329 SHAFFNER, C. S. Lighting hens for egg production. Md. Poultry Ybk. 1949: 10-11. 47.9 M36
- 37330 SHAFFNER, C. S. Securing fertile turkey eggs. Md. Poultry Ybk. 1949: 43. 47.9 M36
- 37331 SHRADER, H. L. Extension teaching methods with poultry. World's Poultry Cong. Off. Rpt. 8: 573-578. 1948. 47.9 W898O
- French summary.



- 37332 SMITH, G. W. Turkey raising can be a valuable part of a diversified farming programme. Land [Sydney] 1948, i. e. 1938: 20. Dec. 24, 1948. 23 L22
- 37333 SOUTH, F. A. Film 'em to sell 'em! Flock-owners are your biggest assets. Use a camera to keep them sold... and to sell chick buyers, too. Hatchery & Feed 22(10): 16-17. Oct. 1948. 47.8 H28
- 37334 SQUIRES, G. A. A plan for one-field farmers. Mod. Poultry Keeping 60: 179. Feb. 16, 1949. 47.8 Eg3
- 37335 STOCKBRIDGE, R. B. Should a "winter pause" condemn a pullet? Canada Poultryman 36: 7. Jan. 1949. 47.8 C166
- 37336 TAYLOR, J. C. How to raise your '49 chicks. N. J. Farm & Gard. 20(3): 66-67. Mar. 1949. 6 G162
- 37337 THOMPSON, W. C. More and better chicks for 1949. Rural New-Yorker 99: 74, 111. Feb. 5, 1949. 6 R88
- 37338 TOUS COLL, D. Granjas avícolas diplomadas, piosos y concursos de puesta. Balearic Isl. Diputación Prov. B. de Agr. 50: 8. Nov. 1948. 15 B19
- 37339 TULLY, W. C. How to raise more turkey poults. Farm & Ranch 68(3): 27, 28. Mar. 1949. 6 T31
- 37340 TURNILL, L. How I would improve the Hagedoorn system. Poultry Farmer [London] 120(3112): 6. Feb. 25, 1949. 47.8 F312
- 37341 VILLENEUVE, P. Principes fondamentaux d'hygiène avicole. B. des Agr. 45(1): 61, 64. Feb. 1949. 7 B872
- 37342 VINCENT, G. L'élevage des poussins. B. des Agr. 45(1): 15, 48. Feb. 1949. 7 B872
- 37343 WALTNER, E. Livestock with clipped wings. Dak. Farmer 69(4): 24-25. Feb. 19, 1949. 6 D14  
Raising pheasants.
- 37344 WAMPLER, C. W. Managing turkey breeders in winter. South. Planter 109(10): 27, 55. Oct. 1948. 6 So89
- 37345 WARE, H. G. Good chicks are no accident. Farmer-Stockman 62(3): 28. Mar. 1949. 6 Ok4
- 37346 WATSON, A. E. Market egg production in Maine. Maine. Agr. Expt. Sta. B. 462, 28 p. Dec. 1948. 100 M28S
- 37347 WEAVER, L. E. Better brooding for better pullets. Amer. Agr. 146: 57, 72. Feb. 5, 1949. 6 Am3
- 37348 WEHRHEIM, K. Der geflügelstall-eine wertvolle einnahmequelle. Neue Mitt. f. die Landw. 3: 371-372. Nov. 5, 1948. 18 N39  
Care.
- 37349 WILGUS, H. S. Better hatching at high altitude. West. Farm Life 51(3): 7, 15. Feb. 1, 1949. 6 R153
- 37350 WINNER, E. B. Missouri poultry activities come "show me" style; co-ag and vo-ag cooperate to bring helpful information to farmers. Better Farming Methods 21(2): 48. Feb. 1949. 58.8 B46
- 37351 WORLD'S POULTRY CONGRESS, 8, COPENHAGEN, 1948. CZECHOSLOVAK COMMITTEE. Poultry in Czechoslovakia. Praha, 1948. 41 p. 47 W892
- 37352 ZUMBRO, P. B. 8th World's Poultry Congress draws friends of 32 nations. Termohlen elected president for next 3-year period. Over 900 registered at Copenhagen, Denmark, Aug. 20-27, 1948. Hatchery & Feed 22 (10): 26, 28. Oct. 1948. 47.8 H28

## RABBITS

Breeds and Breeding

- 37353 BEHRENS, M. E. History of the Giant Chinchilla rabbit—its possibilities. Small Stock Mag. 33(3): 65. Mar. 1949. 48.8 P492
- 37354 BERGNER, C. Aus der Holländerzucht. Kleintier-Zücht. Tierbörse 3(50): 7-8. Dec. 25, 1948. 49 K672
- 37355 CARYL, E. D. The standard Chinchilla—for food, fur and fancy. Small Stock Mag. 33(3): 5. Mar. 1949. 48.8 P492
- 37356 COUCH, V. M. Breeders' problems. Small Stock Mag. 33(3): 8. Mar. 1949. 48.8 P492  
Rabbits.
- 37357 ERHAWA. Betrachtungen über Chinchilla-kaninchen. Kleintier-Zücht. Tierbörse 3(50): 1; 7. Dec. 25, 1948. 49 K672
- 37358 FISHER, N. The Silver Marten—Black, Blue and Chocolate. Small Stock Mag. 33(3): 64-65. Mar. 1949. 48.8 P492
- 37359 GOETTEL, O. F. When to breed [rabbits]. Small Stock Mag. 33(3): 64. Mar. 1949. 48.8 P492
- 37360 GONZÁLEZ ARROYO, S. El conejo de monte. Agricultura [Madrid] 17: 568-571. Ref. Dec. 1948. 15 Ag84
- 37361 GRECIE, C. D. The Heavyweight Chinchilla—the leading fur rabbit. Small Stock Mag. 33(3): 26-27, 50. Mar. 1949. 48.8 P492
- 37362 GRIFFIN, L. S. J. Judging Polish. Small Stock Mag. 33(3): 8. Mar. 1949. 48.8 P492
- 37363 HANGLIN, P. J. Fur and fancy free; rabbits. II. Young Farmer 17: 27-28. Jan./Feb. 1949. 10 Y8  
Breeds.
- 37364 HODGSON, E. English for beginners. Small Stock Mag. 33(3): 68. Mar. 1949. 48.8 P492
- 37365 HOEFFLER, P. Why the turnover of Rex breeders. Amer. Small Stock Farmer 33(4): 17. Jan. 1949. 48.8 J82  
Rabbits.
- 37366 KENNEY, R. T. A few words on Flemish. Small Stock Mag. 33(3): 45. Mar. 1949. 48.8 P492
- 37367 MARTIN, D. D. Fallacies for beginners. Angora Rabbit Mag. 4(7): 10-11. Feb. 1949. 40.28 An42  
Angora breeding.
- 37368 SHIRREFF, W. H. Hutch and feeding system for Angoras. Small Stock Mag. 33(3): 14. Mar. 1949. 48.8 P492
- 37369 SHULTZ, E. B., JR. Culling Checkered Giants at birth. Small Stock Mag. 33(3): 4. Mar. 1949. 48.8 P492
- 37370 SHY, J. R. Two sides to every question. Small Stock Mag. 33(3): 16. Mar. 1949. 48.8 P492  
Specialty vs. commercial rabbit breeder.
- 37371 WILSON, W. K. Male rabbits. Small Stock Mag. 33(3): 4-5. Mar. 1949. 48.8 P492  
Care of breeding males.

Feeds and Feeding

- 37372 SCHMIDTHUBER, K. Stallschau. Österr. Kleintierzüchter 1949: 503. Jan. 1949. 49 Os7  
For rabbits.
- 37373 VELTHUYSEN, H. Einiges über die eichel-fütterung. Österr. Kleintierzüchter 1949: 502. Jan. 1949. 49 Os7  
For rabbits.

- 37374 WEEKS, B. L. Do rabbits need minerals? Small Stock Mag. 33(3): 55. Mar. 1949. 48.8 P492

Veterinary Medicine

- 37375 ARNOULD, C. Les maladies des lapins. Acclimatation 76: 4. Jan. 29, 1949. 14 Ac2
- 37376 BENARD, H., GAJDOS, A., and GAJDOS-TOROK, M. Effet inhibiteur comparé du diisopropylfluorophosphate sur la pseudocholinestérase et la tributyrinase du sérum chez le lapin. Soc. de Biol. Compt. Rend. 142: 1416-1418. Nov. 1948. 442.9 P21
- 37377 BERN, H. A. Some effects of long-continued estrogen treatment on male Dutch rabbits. Cancer Res. 9: 65-73. Ref. Feb. 1949. 448.8 C16
- 37378 BLAIN, M. Les maladies du lapin. Pelleteries du Québec 14(2): 11. Dec. 1948. 412.628 P36
- 37379 BRAGDON, J. H., and LEVINE, H. D. Myocarditis in vitamin E-deficient rabbits. Amer. J. Path. 25: 265-270. Ref. Mar. 1949. 448.8 Am39
- 37380 HALPERN, B. N., VERMEIL, G., and CRUCHAUD, S. Histamine et œdème aigu du poumon produit par l'adrénaline chez le lapin. Soc. de Biol. Compt. Rend. 142: 1385-1387. Nov. 1948. 442.9 P21
- 37381 HATZFELD, G. H. Bloat in rabbits. (In Portuguese.) Chacaras e Quintais 78: 709-710. Dec. 15, 1948. 9.2 C34
- 37382 KUNTZ, A., and SULKIN, N. M. Lesions induced in rabbits by cholesterol feeding, with special reference to their origin. Arch. Path. 47: 248-260. Mar. 1949. 448.8 Ar26







- 37431 HODGSON, C. W., and others. Early spring lamb production on irrigated farms of Idaho. Idaho. Agr. Expt. Sta. B. 272, 16 p. Dec. 1948. 100 Id1  
R. E. Knight, J. L. Toevs, E. F. Rinehart, and C. W. Hickman, joint authors.  
Chiefly feeding.
- 37432 JORDAN, R. M. Sheepmen cut costs by using mixed hay. Dak. Farmer 69(3): 26. Feb. 5, 1949. 6 D14  
Similar title in Sheep & Goat Raiser 29(5): 18-19. Feb. 1949. 45.8 Sh3
- 37433 LITTON, G. W. The way I winter my ewes. South. Planter 109(10): 28, 29. Oct. 1948. 6 So89  
Chiefly feeding.
- 37434 OSBORN, B. What about grazing weeds? Sheep and Goat Raiser 29(6): 24-25. Mar. 1949. 45.8 Sh3
- 37435 QUINQUIS, J. Alimentation normale. Bouches du Rhone Agr. 22(996): 14. (To be cont.) Feb. 15, 1949. 14 B662  
Goats.
- 37436 REYNOLDS, F. S. More pasture from less land. Dairy Goat J. 27(4): 10-11. Apr. 1949. 40.18 M592
- 37437 TORTORELLI, N. Feeding of sheep in the South of Italy and in the islands. (In Italian.) Riv. di Zootec. 21: 401-403. Dec. 1948. 49 R52
- 37438 TRAIN, MRS. M. A. Mixed green crops for soiling. Brit. Goat Soc. Ybk. 1949: 7. 40.19 B77
- Veterinary Medicine
- 37439 BIAGIO, S. Salmonella abortion in goats. (In Italian.) Zooprofilassi 3: 286-287. Oct. 1948. 41.8 Z72
- 37440 BLANCO LOIZELIER, A. Mal rojo en la oveja. Veterinaria 12: 841-844. Ref. Dec. 1948. 41.8 V6429
- 37441 BRUCE, I. A. Disbudding kids better than dehorning. Dairy Goat J. 27(4): 14. Apr. 1949. 40.18 M592
- 37442 BRYAN, C. S. Penicillin in treatment of chronic streptococcal mastitis in goats. Dairy Goat J. 27(3): 4-5. Mar. 1949. 40.18 M592
- 37443 CAMPBELL, D., CAMPBELL, R. S. F., and DROMEY, L. Pneumonia in sheep associated with infection by a Pasteurella-like organism. Vet. Rec. 61: 64-65. Feb. 5, 1949. 41.8 V641
- 37444 COLE, C. R. Pathological and nutritional aspects of ovine ketosis. Ohio. State U. Abs. Doctoral Diss. (1946/47) 54: 95-102. 1948. 241.8 Oh3
- 37445 COPPINI, R. Foot rot in sheep. (In Italian.) Allevatore 4(44): 3. Oct. 31, 1948. 49 AL55
- 37446 CROFTON, H. D. The ecology of immature phases of trichostrongyle nematodes. III. Larval populations on hill pastures. Parasitology 39: 274-280. Ref. Feb. 1949. 448.8 P21  
Sheep parasites.
- 37447 DOVE, E. G. New names for old mistakes? Brit. Goat Soc. Monthly J. 42: 36-37. Mar. 1949. 40.19 B77M  
Goat diseases.
- 37448 EAST, J., UNDERWOOD, E. J., and BENNETTS, H. W. Oestrogenic effects of subterranean clover (T. subterraneum L. var. Dwalganup): protective action of androgen in the castrate male. Austral. J. Expt. Biol. & Med. Sci. 27: 105-113. Jan. 1949. 442.8 Au7  
Experiments with guinea pigs and sheep.
- 37449 EDWARDS, C. M. Polyarthritis in lambs following serum inoculation. Vet. Rec. 61: 95-97. Feb. 26, 1949. 41.8 V641
- 37450 EMIK, L. O. The effects of environmental and hereditary factors on trichostrongylid worm infestation in sheep. J. Anim. Sci. 8: 73-80. Ref. Feb. 1949. 49 J82
- 37451 ESPINOZA AGUIRRE, L. La linfadenitis caseosa o pseudo tuberculosis de los ovinos. Agrario 13(403/404): 12. Nov./Dec. 1948. 9.3 Ag85
- 37452 GLEMBOTSKII, I. A. L., and GEPTNER, R. A. Role of heredity in the etiology of bronchopneumonia in Romanovsk sheep. (In Russian.) Zhur. Obshch. Biol. 9: 315-326. July/Aug. 1948. 442.8 Z6
- 37453 ISNARD, J. P. La stomatite ulcéreuse du mouton. Monde Paysan 4(124): 2. Dec. 15, 1948/Jan. 1, 1949. 14 M742
- 37454 JAMIESON, S. Black disease of sheep; its nature, importance and prevention. Scot. Agr. 28: 155-161. Winter 1948/49. 10 Sco82So
- 37455 JEFFERY, H. E. Examine that kid. Brit. Goat Soc. Ybk. 1949: 51-52. 40.19 B77  
Looking for genital defects and hermaphroditism.
- 37456 LACEY, J. J. Prevent lamb stiffness. Wool Growers News 14(7): 8. Feb. 1949. 280.28 W882
- 37457 MARRONE, P. Observations on contagious ecthyma in goats. (In Italian.) Nuova Vet. 24: 376-380. Nov. 15, 1948. 41.8 N922
- 37458 MARSH, H. Treatment of blue-bag; sulfa drug effective control. Calif. Wool Grower 25(8): 7. Feb. 22, 1949. 45.8 C12
- 37459 MONROE, R. A., and TURNER, C. W. Metabolism of thyroxine in the goat. Amer. J. Physiol. 154: 1-5. Ref. July 1, 1948. 447.8 Am3
- 37460 MURA, D. On the prevention of Salmonella abortion in sheep. (In Italian.) Clin. Vet. [Milan] 72: 37-40. Ref. Feb. 1949. 41.8 C61  
Salmonella abortusovis.
- 37461 NATIONAL VETERINARY MEDICAL ASSOCIATION. Skin diseases and external parasites of the goat. Brit. Goat Soc. Ybk. 1949: 63-64. 40.19 B77
- 37462 PEARSON, P. B., GRAY, J. A., and REISER, R. The calcium, magnesium and potassium contents of the serum of ewes fed high levels of potassium. J. Anim. Sci. 8: 52-56. Ref. Feb. 1949. 49 J82
- 37463 POPE, A. L. Pregnancy disease can be prevented. Wool Growers News 14(8): 4-5. Mar. 1949. 280.28 W882  
In sheep.
- 37464 POPE, A. L., PHILLIPS, P. H., and BOHSTEDT, G. Vitamins A and C concentrations in the blood plasma of ewes, their milk, and in the blood plasma of their lambs. J. Anim. Sci. 8: 57-66. Ref. Feb. 1949. 49 J82
- 37465 RICHES, P. N. Hoof cutting. Brit. Goat Soc. Ybk. 1949: 65, 67. 40.19 B77
- 37466 SANDERSON, C. J. Urinary calculi may cause sheep deaths. Land [Sydney] 1947, i. e. 1937: 30. Dec. 17, 1948. 23 L22
- 37467 SCHINAGL, J. F., and DAHLQUIST, N. Wyoming attacks lamb loss problem on Seaverson ranch. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 191. Jan. 1, 1949. 6 R153
- 37468 SCHULZ, K. C. A., and MCINTYRE, C. Preliminary report on an infectious enterotoxaemia-like disease in sheep. So. African Vet. Med. Assoc. J. 19: 93-99. Ref. Sept. 1948. 41.8 So8
- 37469 SCHWARZ, M. Das trockenstellen der ziegen. Österr. Kleintierzüchter 1949: 509. (To be cont.) Jan. 1949. 49 Os7
- 37470 SOPEÑA, I., and GURY DOHMEN, E. F. Un monstruo ovino acéfalo. Buenos Aires. U., Facul. de Agron. y Vet. Rev. 12: 32-36. Ref. Nov. 1948. 9 B863  
English summary.
- 37471 STABLEFORTH, A. W. Mastitis in goats. Brit. Goat Soc. Ybk. 1949: 9, 11. 40.19 B77
- 37472 STAMP, J. T., and WATT, J. A. Disease survey of Sourhope farm. Edinb. and East Scot. Col. Agr. Misc. P. 25, 5 p. Autumn 1948. 103 Ed4M  
Disease of sheep.
- 37473 THIBAUT, C., and ORTAVANT, R. Parthénogénèse expérimentale chez la brebis. Paris. Acad. des Sci. Compt. Rend. 228: 510-511. Feb. 7, 1949. 505 P21
- 37474 TRUE, L. G. Blue bag, serious disease of sheep, must be treated in 24 hours to be cured. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 78, 80. Jan. 1, 1949. 6 R153  
Mastitis in sheep.
- 37475 WALLACE, L. R. The growth of lambs before and after birth in relation to the level of nutrition. J. Agr. Sci. [London] 38: 367-401. Ref. Oct. 1948. 10 J822
- 37476 WELSH, M., and others. Sulfamethazine blood concentrations in sheep. Vet. Med. 43: 470-471. Ref. Nov. 1948. 41.8 M69  
R. L. Burkhardt, C. R. Schroeder, and P. H. Langer, joint authors.



37477 WHITE, I. G., BLOOD, D. C., and WHITEM, J. H. BAL (British anti-lewisite) as an antidote to poisoning with sodium arsenite in sheep. *Austral. Vet. J.* 25: 8-11. Ref. Jan. 1949. 41.8 Au72

37478 WHITE, I. G., BLOOD, D. C., and WHITEM, J. H. The toxicity of BAL (British anti-lewisite) for sheep. *Austral. Vet. J.* 25: 1-7. Ref. Jan. 1949. 41.8 Au72

37479 WHITING, F., LOOSLI, J. K., and WILLMAN, J. P. The influence of tocopherols upon the mammary and placental transfer of vitamin A in the sheep, goat and pig. *J. Anim. Sci.* 8: 35-40. Ref. Feb. 1949. 49 J82

37480 ZAVAGLI, V. Contagious agalactia of sheep and goats. III. Changes in the pH of the milk of sheep through the action of the agalactic virus and their diagnostic value - corresponding changes in the pH of the blood. (In Italian.) *Zooprofilassi* 3: 201-210. Aug. 1948. 41.8 Z72

#### Miscellaneous

37481 BIGNOLD, L. Herding with the help of a dog. *Brit. Goat Soc. Ybk.* 1949: 64-65. 40.19 B77

37482 CABRIO, G. Sheep at Biella. (In Italian.) *Allevatore* 4(48): 8. Nov. 28, 1948. 49 AL55

37483 CALVO, C. A. Llaneros en la República Argentina. *Argentina. Dir. de Inform. P. Misc.* 290, 14 p. 1948. 9 P943

37484 CHRISTMAN, A. We earn as we learn about goats. *Dairy Goat J.* 27(4): 15-16. Apr. 1949. 40.18 M592

37485 DEER, I. I. Naming your goat. *Brit. Goat Soc. Ybk.* 1949: 53, 55. 40.19 B77

37486 DOVE, MRS. E. G. Kid rearing. *Brit. Goat Soc. Monthly J.* 42: 19-20. Feb. 1949. 40.19 B77M

37487 DOVE, MRS. E. G. Signposts to successful showing. *Brit. Goat Soc. Ybk.* 1949: 69, 71. 40.19 B77

37488 EGERTON, J. R. Local goat clubs. *Brit. Goat Soc. Ybk.* 1949: 75-76. 40.19 B77

37489 FORTESCUE, H. R. Club milk recording. *Brit. Goat Soc. Ybk.* 1949: 23-25. 40.19 B77

37490 GASS, R. Der stand der schafzucht im Elsass. *Bas-Rhin Agr.* 4: 84-85. Feb. 12, 1949. 14 B29

37491 HEFELE. Die ziegenzucht im monat dezember. *Kleintier-Zücht. Tierbörse* 3(50): 12. Dec. 25, 1948. 49 K672

37492 HORNBY, H. E., and VAN RENSBURG, H. J. The place of goats in Tanganyika farming systems. *East African Agr. J.* 14: 94-98. Oct. 1948. 24 Ea74

37493 HUBBARTT, W. M. Improving a good dairy goat. *Dairy Goat J.* 27(4): 13. Apr. 1949. 40.18 M592

37494 HUGHES, T. J. Winter clipping improves milk quality. *Dairy Goat J.* 27(3): 7. Mar. 1949. 40.18 M592

37495 HUTCHINSON, J. 205 lbs. dead weight meat per acre; heavy sheep-stocking without disease losses on Forest of Dean Farm. *Farmers Weekly [London]* 30(8): 43. Feb. 25, 1949. 10 F2226

Management of the farm.

37496 IZQUIERDO, E. El ganado lanar en España. *Cooperación* 7(80): 12-13. Oct. 1948. 280.28 C7875

37497 KRACK, K. E. Aus der milchschaftzucht. *Kleintier-Zücht. Tierbörse* 3(50): 11-12. Dec. 25, 1948. 49 K672

37498 LANGLET, J. Die elite-absatzveranstaltung des Landesschafzüchterverbandes Sachsen-Anhalt 1948. *Tierzucht* 2: 158-160. Oct. 1948. 49 T443

37499 LEVECK, H. H. Clipped lambs stand summer best. *Miss. Agr. Expt. Sta. Inform. Sheet* 412, 1 p. July 1948. 100 M69In

37500 LITTON, G. W. Lambing time. *South. Agr.* 78, i. e. 79(2): 37. Feb. 1949. 6 So83

Chiefly care.

37501 LITTON, G. W. Top quality lambs finish fast. *South. Planter* 110(2): 30-31. Feb. 1949. 6 So89

Chiefly care.

37502 LOUW, D. J., HAVENGA, C. M., and HAMERSMA, J. The walking habits of sheep. *Farming So. Africa* 23: 753-755. Nov. 1948. 24 So842

37503 PERRY, R. More shepherds—or no sheep. *Farmer & Stock-Breeder* 63: 387. Feb. 15, 1949. 10 F228

37504 PLIMPTON, A. A. Some show impressions. *Brit. Goat Soc. Ybk.* 1949: 17, 19. 40.19 B77

37505 RIEUX-PEYROU. L'élevage caprin. *Unité Paysanne* 4(170): 4. Feb. 5, 1949. 14 Un3

37506 ROWSELL, J. 1,000 to 1,500 ewes per man. *Farmer & Stock-Breeder* 63: 152. Jan. 18, 1949. 10 F228

Labor-saving methods in New Zealand.

37507 SHEEHY, E. J. The animal on the farm; fat lamb production. *Agr. Ireland* 6: 13, 15-16. Jan. 1949. 10.5 Ag8

No. 63 of the series.

37508 SIMMONS, V. L. How to assure a year-round milk supply. *Dairy Goat J.* 27(4): 7-9. (To be cont.) Apr. 1949. 40.18 M592

37509 UBALDI, L. Sheep raising and the meat problem. (In Italian.) *Allevamenti nel Mondo* 28: 160-161. July/Aug. 1948. 49 AL56

37510 VIEIRA, G. V. N. Importance of climatology in raising sheep. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 12: 114-116. July/Sept. 1948. 9.2 R325

37511 WASHBURN, E. Disposal of kids. *Amer. Dairy Goat News* 10(9): 6. Mar. 1949. 40.18 Am34

#### SWINE

##### Breeds and Breeding

37512 BLIN, H. Le porc Middle White et l'élevage en plein air. *Monit. Agr.* 2(57): 4. Feb. 13, 1949. 14 M744

37513 BLUNN, C. T., and BAKER, M. L. Heritability estimates of sow productivity and litter performance. *J. Anim. Sci.* 8: 89-97. Ref. Feb. 1949. 49 J82

37514 DUCK, R. W. Breeds and types of hogs. *Rural New-Yorker* 99: 190, 198. Mar. 5, 1949. 6 R88

37515 MCMILLEN, W. N. Type, carcass quality in Chester Whites. *Chester White J.* 39(3): 3. Mar. 1949. 46.8 W582

37516 MENEUGH, H. Program for breed expansion. *Poland China World* 36(2 i. e. 3): 3. Mar. 1949. 46.8 Sw62

37517 SCHREUDER, P. J. V. D. H. What swine breed to select. (In Afrikaans.) *Landbouweekblad* 30 (1543): 32-33. Feb. 9, 1949. 24 L232

37518 WILLIAMS, W. Colorado Duroc association boosts quality of red hogs. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 186. Jan. 1, 1949. 6 R153

37519 ZELLER, J. H. Breeds of swine. *Farmer & Dairyman* 40(503): 29. (To be cont.) Dec. 1948. 23 F225

##### Feeds and Feeding

37520 ASHTON, G. C. Feeding [swine] begins before birth. *Macdonald Col. J.* 9(5): 4-5. Jan. 1949. 101 M144

37521 BECKMAN, H. J. Begin to plan—sow herds should be conditioned in advance of farrowing seasons. *West. Livestock J.* 27(12): 154, 155. Jan. 15, 1949. 6 F2278

Chiefly feeding.

37522 BECKMAN, H. J. Utilize the culls—swine growers obtain good results by adding potato meal to rations. *West. Livestock J.* 27(17): 189-190. Feb. 15, 1949. 6 F2278

37523 BERNARD, P. La pomme de terre revalorisée par le porc. *Monit. Agr.* 2(53): 2. Jan. 16, 1949. 14 M744

As feed.

37524 BOSTOCK, F. The feeding of pigs. *Queensland Agr. J.* 67: 290-309. Nov. 1948. 23 Q33

37525 BRÜGGEMANN, H. Zur problematik der mastleistungsprüfungen. *Landw. Wchnbl. f. Westfalen u. Lippe* 105: 361-362, 375-376. Dec. 11-18. 18 L2346

Swine feeding.

37526 CATRON, D. Raise more pigs with less feed. *Hog Breeder* 24(3): 6-7, 20, 32, 46. Mar. 1949. 46.8 H672

37527 DELAFORGE, O. Sur l'emploi de quelques aliments du porc. *Monit. Agr.* 2(53): 6; (54): 4. Jan. 16-23, 1949. 14 M744



- 37528 DIAS, N. DA C. Observations on the utilization of by-products of the dairy industry in the feeding of swine. (In Portuguese.) Portugal. Dir. Geral dos Serv. Pecuários. B. Pecuário 16: 143-147. 1948. 41.8 P83
- 37529 ELLIOTT, J. A. Fall calls for fat pigs. Prog. Farmer, Car.-Va. Ed. 63(11): 106. Nov. 1948. 6 P945  
Feeding.
- 37530 FLETCHER, J. L., and BARRENTINE, B. F. Cottonseed meals differ in effects on pigs. Miss. Farm Res. [Miss. Sta.] 11(12): 6. Dec. 1948. 100 M69Mi
- 37531 FLETCHER, J. L. Sudan, lespedeza, milo compared in pig feeding test. Miss. Farm Res. [Miss. Sta.] 12(2): 1, 6. Feb. 1949. 100 M69Mi
- 37532 GROSSMAN, J., and OLIVEIRA, W. M. A study of the preparation of feed for pregnant and brood sows. (In Portuguese.) Rio Grande do Sul. Dir. da Prod. Anim. B. 4(6): 27-38. June 1948. 49.9 R47
- 37533 HOGAN, A. G., and ANDERSON, G. C. Vitamins required by swine for growth, with some observations on reproduction. J. Nutr. 36: 437-449. Ref. Oct. 11, 1948. 389.8 J82
- 37534 HÜBNER. Schweinemast mit trockenen zuckerrübenschnitzeln. Salzburger Bauer 4(5): 1-2. Feb. 3, 1949. 19 Sa3
- 37535 HUGHES, E. H. Swine feeds. Flour & Feed 49(10): 27. Mar. 1949. 298.8 F66
- 37536 KRIDER, J. L., and others. Dried whey products in drylot rations for weanling pigs. J. Anim. Sci. 8: 112-120. Feb. 1949. 49 J82  
D. E. Becker, L. V. Curtin, R. F. Van Poucke, joint authors.
- 37537 KRIDER, J. L., TERRILL, S. W., and VAN POUCHE, R. F. Response of weanling pigs to various levels of riboflavin. J. Anim. Sci. 8: 121-125. Feb. 1949. 49 J82
- 37538 LEGENDRE, G. Combien peut-on mettre de porcs à l'hectare? J. de la France Agr. 5: 55. Feb. 4/10, 1949. 14 J829
- 37539 LEHRER, W. P., JR., and others. A synthetic milk ration for baby pigs. J. Anim. Sci. 8: 107-111. Ref. Feb. 1949. 49 J82  
P. R. Moore, A. C. Wiese, and O. F. Pahnish, joint authors.
- 37540 MORRISON, F. B. Quality of protein in swine nutrition. Cornell Nutr. Conf. Feed Mfrs. Proc. 1948: 15-18. 389.79 C81
- 37541 NIELSEN, O. On boiling of potatoes. (In Danish.) Dansk Landbr. 68: 69-70. Feb. 10, 1949. 280.28 V91  
On the preparation of potatoes for swine feed.
- 37542 NORDFELDT, S. Experiments with different amount of water in swine feed. (In Swedish.) Sweden. Lantbrukshögsk. Husdjursförsöksanst. Särtryck och Förhandsmeddel. 67, 12 p. 1948. 49.9 Up6
- 37543 PETERSEN, N. Über neue dänische fütterungsversuche mit ferkeln, sauen und mastschweinen. Land Wald u. Gart. 3: 153-155. July 1948. 18 L22
- 37544 PHILLIPS, G. B. Feed right before they [pigs] arrive. South. Agr. 78, i. e. 79(2): 28. Feb. 1949. 6 So83
- 37545 ROCCHETTI. Iodine and molasses in swine nutrition. (In Italian.) Riv. di Zootec. 21: 352-354. Nov. 1948. 49 R52
- 37546 RUSSELL, J. S. APF [animal protein factor]—is it opening a new door to nutrition? Iowa Farm & Home Reg. 1949: 9-H, 23-H. Feb. 6, 1949. 6 Io94  
In swine and poultry nutrition.
- 37547 RÜTHER. Schweinemastleistungsprüfungen. Landw. Wchnbl. f. Westfalen u. Lippe 106: 48. Jan. 22, 1949. 18 L2346
- 37548 TIMMERMANS. Swine and kitchen salt; sensitivity smaller than supposed. (In Dutch.) Boer en Tuinder 3(110): 3. Feb. 12, 1949. 12 B632
- 37549 VACCARI, E. On the subject of swine nutrition. (In Italian.) Allevamenti nel Mondo 28: 154-155. July/Aug. 1948. 49 AL56
- 37550 VANDER NOOT, G. W., and SKELLEY, W. C. Dried molasses, potato, or corn distillers' solubles as part of a ration for fattening pigs in drylot. J. Anim. Sci. 8: 126-131. Feb. 1949. 49 J82

- 37551 WINTERS, L. M., SIERK, C. F., and CUMMINGS, J. N. The effect of plane of nutrition on the economy of production and carcass quality of swine. J. Anim. Sci. 8: 132-140. Feb. 1949. 49 J82

#### Veterinary Medicine

- 37552 BAGEDDA, G. True and complete inguinal aysterocele accompanying bilateral glandular pseudo-hermaphroditism in a hog. (In Italian.) Zootec. e Vet. 3: 615-621. Oct. 1948. 41.8 Z7
- 37553 BLACK, R. H. Prevention and cure of nutritional anemia. Duroc News 23(3): 24. Mar. 1949. 46.8 N212
- 37554 BOWLAND, J. P., and others. The vitamin A and vitamin C content of sows' colostrum and milk. J. Anim. Sci. 8: 98-106. Ref. Feb. 1949. 49 J82  
R. H. Grummer, P. H. Phillips, and G. Bohstedt, joint authors.
- 37555 BRAUN, D. Über einige serogenetische erkrankungsfälle des nervensystems beim schweine. Tierärztl. Umschau 3: 249-250. Aug. 1948. 41.8 T445  
Vaccination against erysipelas.
- 37556 BUCHANAN, M. L., LASLEY, E., and BOLIN, D. W. Anemia in suckling pigs. N. Dak. Agr. Expt. Sta. Bimo. B. 11(3): 106-107. Jan./Feb. 1949. 100 N813B
- 37557 CAMPOS ONETTI, R. El mal rojo del cerdo. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 21, 15 p. Nov. 1948. 15 H68
- 37558 CANESSA, S. Teschen disease in the Modenese. (In Italian.) Nuova Vet. 24: 381-385. Nov. 15, 1948. 41.8 N922
- 37559 CUNHA, T. J. Anemic swine—pigs can be saved by some extra work. West. Livestock J. 27(12): 161. Jan. 15, 1949. 6 F2278
- 37560 DORN, A. Die ansteckende schweinelähmung und deren bekämpfung. Salzburger Bauer 4(6): 2-4. Feb. 10, 1949. 19 Sa3
- 37561 EDMONDS, E. V. Sulfamerazine & sulfathalidine (phthalylsulfathiazole) for enteritis-pneumonia syndrome in swine. Vet. Med. 43: 460-462. Ref. Nov. 1948. 41.8 M69
- 37562 FABBROVICH, F. Consideration of two cases of hepatic amyloidosis in swine. (In Italian.) Clin. Vet. [Milan] 72: 33-36. Feb. 1949. 41.8 C61
- 37563 FLETCHER, J. L. Controlling cottonseed meal poisoning in pigs. Miss. Agr. Expt. Sta. Inform. Sheet 409, 2 p. Apr. 1948. 100 M69In
- 37564 FONTANELLI, E. Teschen disease. (In Italian.) Zooprofilassi 3: 218. Aug. 1948. 41.8 Z72
- 37565 GIFFEE, J. W. Toxemia-uremia in pigs. Vet. Med. 43: 488-489. Nov. 1948. 41.8 M69
- 37566 IVANOV, M. M. A study of the effectiveness of formol vaccine against paratyphoid in young pigs. (In Russian.) Veterinariia 25(6): 20-22. June 1948. 41.8 V6426
- 37567 KURAPOV, P. M. Necrotic affection of the mucous membrane of the oral cavity in swine. (In Russian.) Veterinariia 25(6): 25-27. June 1948. 41.8 V6426
- 37568 LENZ, G. Ferkelsterben und kümmern der schweine, ein beitrag zur feststellung der ursachen dieser krankheiten und zu ihrer bekämpfung. Berlin, Schoetz, 1948. 42 p. Ref. 41 L547
- 37569 MCMILLEN, W. N. Your sows dry up—why? Successful Farming 47(3): 160, 162-163. Mar. 1949. 6 Su12
- 37570 MENZANI, C. Enzootic encephalomyelitis of swine (Teschen disease). (In Italian.) Zooprofilassi 3: 231-240. Ref. Sept. 1948. 41.8 Z72
- 37571 NIKITIN, M. G. Secretion of virus with the milk during Aujeszky's disease in swine. (In Russian.) Veterinariia 25(6): 24. June 1948. 41.8 V6426
- 37572 NORTH DAKOTA. AGRICULTURAL COLLEGE. EXTENSION SERV. Swine sanitation pays. N. Dak. Agr. Col. Ext. C. A-130, 6 p.-folder. May 1948. 275.29 N812Sa
- 37573 NOSKOV, A. I. Enzootic bronchopneumonia in young pigs. (In Russian.) Veterinariia 25(6): 27-29. June 1948. 41.8 V6426



37574 ORTLEPP, R. J. The Ascaris worm of pigs. Farming So. Africa 23: 795-797, 800. Dec. 1948. 24 So842

Ascaris lumbricoides suis.

37575 RAGGI, L. Histopathology of the heart, brain, liver and kidneys in a case of swine endocarditis due to Escherichia coli. (In Italian.) Zooprofilassi 3: 261-269. Ref. Oct. 1948. 41.8 Z72

37576 SALVADOR, A. N. The hog. (In Portuguese.) Vida Agr. [Lisboa] 11(65): 7-8. May/June 1948. 15.5 V66  
Diseases.

37577 SCHWARTZ, B., and BURCH, D. S. Sodium fluoride effective against swine roundworms. U. S. Agr. Res. Admin. Res. Achvt. Sheet 119, 2 p. Jan. 1949. 1.98 R31

37578 TRIM, A. R. The kinetics of the penetration of some representative anthelmintics and related compounds into Ascaris lumbricoides var. suis. Parasitology 39: 281-290. Ref. Feb. 1949. 448.8 P21

37579 VENTURI, P. Clinico-epidemiological observations on a new disease of swine related to "Teschen disease." (In Italian.) Zooprofilassi 3: 241-244. Sept. 1948. 41.8 Z72

37580 VOLLRATH, H. M. Prevention and control of pig scours. Hawaii. U. Agr. Ext. C. 20, rev., 3 p. Dec. 1948. 275.29 H312Ac

37581 YOUNG, F. B. Obstetrics in swine. Norden News 23(2): 7, 9. Mar./Apr. 1949. 41.8 N75

37582 ZYKOV, A. I. Ovariectomy in swine. (In Russian.) Veterinarifa 25(6): 39-40. June 1948. 41.8 V6426

#### Miscellaneous

37583 ALBERTA UNIVERSITY. FACULTY OF AGRICULTURE. DEPT. OF ANIMAL SCIENCE. Swine production in Alberta. Alberta. U. Facul. Agr. B. 22, 99 p. Oct. 1948. 101 AL1B

Contents: Swine production in Alberta, by R. D. Sinclair and L. W. McElroy; Equipment for swine raising, by J. M. Smith; Swine diseases, by J. G. O'Donoghue.

37584 CANO, A. F., and VIDELA, P. H. B. Exploración porcina. Rev. Mens. Illus. B. A. P. 32(373): 32, 49-52. Dec. 1948. 9 R326

37585 COFFEY, J. S. March is farrowing month. Berkshire News 14(5): 4, 10. Mar. 1949. 46.8 B424

37586 DEBRESSE, H. Le plein air pour les porcs. Monde Paysan 4(125): 1-2. Jan. 15, 1949. 14 M742

37587 DELAFORGE, O. Pour réussir l'élevage des porcelets. Monit. Agr. 2(56): 4. Feb. 6, 1949. 14 M744

37588 DIAMOND, W. T. Rules for care of swine. Flour & Feed 49(10): 16. Mar. 1949. 298.8 F66

37589 GALINDO, A. El cerdo. Ceres [Valladolid] 14: 11, 13. Jan. 1949. 15 C33

37590 GEISLER, E. Zur frage der leistungsprüfungen bei schweinen. Tierzucht 2: 136-137. Sept. 1948. 49 T443

37591 GRAVES, J. T. Judging hogs for 4-H Club members. Clemson Agr. Col. S. C. Ext. C. 319, 6 p.-folder. Sept. 1948. 275.29 So8E

37592 HEFELE, H. Haltung und fütterung der tragenden und säugenden muttersauen. Württemb. Wchnbl. f. Landw. 116: 28. Jan. 15, 1949. 18 W96

37593 HOLAND, P. J., and GRAMLICH, H. J. Notch ears; weigh pigs; and breed sows early. Breeder's Gaz. 114(4): 8, 37. Apr. 1949. 49 B74

37594 HOWEY, R. Newark F.F.A. sponsors swine testing program. Agr. Ed. Mag. 21: 210. Mar. 1949. 275.8 Ag8

37595 HUBER, C. Management of pigs at weaning time. Poland China World 36(2 i.e. 3): 9. Mar. 1949. 46.8 Sw62

37596 HUFNAGLE, R. W. His pigs pass their tests—or else. Successful Farming 47(3): 38-39. Mar. 1949. 6 Su12

Production-testing program.

37597 MCMILLEN, W. N. Producing profitable porkers. Mich. Farmer 211: 125, 149. Feb. 19, 1949. 6 M58

Includes care during farrowing time.

37598 MATTATALL, I. Algunas sugerencias prácticas sobre la producción de cerdos bajo las condiciones existentes en la República de Panamá. Rev. de Agr., Com. e Indus. [Panama] 8(87): 22-29. Nov. 1948. 8 R3291

37599 NORTH, A. D. Pork and bacon pig classes, Melbourne Royal Show, 1948. Victoria. Dept. Agr. J. 46: 504-507. Nov. 1948. 23 V66J

37600 ORR, C. Swine research center; Nebraska plant a fine setting for hog experiments. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 183, 187. Jan. 1, 1949. 6 R153

At the University of Nebraska.

37601 PAIM, H. Observations on the weight at birth of hybrid lambs. (In Portuguese.) Rio Grande do Sul. Dir. da Prod. Anim. B. 4(6): 39-44. June 1948. 49.9 R47

37602 PARK, R. But to get best hog profits, you have to manage carefully. Prairie Farmer, Gen. Ed. 121(3): 52, 53. Feb. 5, 1949. 6 P883

37603 PLAGER, C. Best way to pick a [barrow] champion. Successful Farming 47(2): 158-159. Feb. 1949. 6 Su12

37604 SANZ EGAÑA, C. La matanza en el medio rural. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 25, 12 p. Dec. 1948. 15 H68  
Slaughtering of swine.

37605 SCHREUDER, P. J. V. D. H. Swine farming can be profitable. (In Afrikaans.) Landbouweekblad 30(1539): 32, 38, 40. Jan. 12, 1949. 24 L232

37606 SEEDORF, W. Die leistungsprüfung in der schweinezucht. Neue Mitt. f. die Landw. 3: 367-368. Nov. 5, 1948. 18 N39

37607 SHEELEY, W. J. Swine production in Florida. Fla. Agr. Col. Ext. B. 138, 35 p. Dec. 1948. 275.29 F66

A revision of Bulletin 111.

37608 SIESS, J. Die schweinezucht im Bas-Rhin muss wieder aufgebaut werden. Bas-Rhin Agr. 4: 83. Feb. 12, 1949. 14 B29

37609 SIRRI, A. When will we have an institute for swine culture? (In Italian.) Allevatore 4(45): 1. Nov. 7, 1948. 49 AL55

37610 SMITHMEYER, J. E. Hogs are good business. Idaho Farmer 67: 71. Feb. 3, 1949. 6 G282

37611 TYRRELL, W. P. Tennessee's program of sow testing. Duroc News 23(3): 57-58. Mar. 1949. 46.8 N212

#### ENTOMOLOGY

##### GENERAL

37612 BALFOUR-BROWNE, F. Nymph and larva. Ent. Monthly Mag. 85: 44. Feb. 1949. 421 En86

37613 BERG, K. Biological studies on the river Susaa. Folia Limnol. Scand. 4, 318 p. København, 1948. 410 F712

Faunistic and biological investigations: Arachnida [Hydracarina] by J. Keiding, p. 79-107. Insecta, by K. Berg and A. Nielsen, p. 108-189.

37614 BRYAN, E. H. Bibliography of Micronesian entomology. Comp. for the Pacific Science Board of the National Research Council. Honolulu? 1948. 43 p. 241.74 B84

37615 COLAS, G. Guide de l'entomologiste. L'entomologiste sur le terrain—preparation, conservation des insectes et des collections. Paris, Boubée, 1948. 309 p. 422 C67G

37616 FAGEL, G. Contenu de l'estomac d'un rollier. Soc. Ent. de Belg. B. & Ann. 84: 145. Aug. 31, 1948. 420 B41

37617 JUDD, W. W. Insects collected in the Dundas Marsh, Hamilton, Ontario, 1946-47, with observations on their periods of emergence. Canad. Ent. 81: 1-10. Jan. 1949. 421 C16

37618 KIRIAKOFF, S. G. La taxonomie des espèces jointives. Soc. Ent. de Belg. B. & Ann. 84: 120-123. June 1948. 420 B41

37619 LANGE, W. H., JR. Entomological observations in the Pacific and Malaysian areas. (Abs.) Pan-Pacific Ent. 25: 45-47. Jan. 1949. 421 P193



- 37620 MARCUS, H. Eine neue theorie über die atmung der insekten. *Anz. f. Schädlingssk.* 21: 76-78. Aug. 1948. 421 An9
- 37621 MAYEUX, H. S. Insect pests of tomatoes. *Tex. Farming & Citric.* 25(9): 8. Mar. 1949. 80 T31
- 37622 MULLER, J. Liste d'insectes intéressants capturés surtout aux environs de Visé. *Soc. Ent. de Belg. B. & Ann.* 84: 137-140. June 1948. 420 B41
- 37623 NAVA, C. DE. *Parasitologia aviar.* Nuestros Amigos 5(52): 15. Sept. 1948. 48.8 N88  
Poultry pests.
- 37624 PARSONS, A. C. Photography of common insects. *Amer. Photog.* 43: 166-168. Mar. 1949. 332.8 Am3
- 37625 RAIKOV, B. E., and RIMSKIY-KORSAKOV, M. N. *Zoologicheskie ekskursii [Zoological excursions]*. Ed. 5, rev. and enl. Moskva, Gos. Ucheb.-Pedagog. Izd-vo Ministerstva Prosveshcheniia, 1948. 471 p. 411 R132  
Insects and other invertebrates.
- 37626 SHTEINBERG, D. M. Hormones in insects. (In Russian.) *Uspekhi Sovremennoi Biol.* 25: 401-418. Ref. May/June 1948. 442.8 Er3
- 37627 TILDEN, J. W. The insect community on *Baccharis pilularis* de Candolle. *Stanford U. Abs. Diss.* 23: 13-15. 1948. 241.8 St2
- 37628 VAURIE, C., and VAURIE, P. Insect collecting in Guatemala 65 years after Champion. *N. Y. Ent. Soc. J.* 57: 1-18. Mar. 1949. 420 N48J
- 37629 WEBER, N. A. Opportunities for entomological research in the Arctic. *Ent. News [Philadelphia]* 59: 253-257. Dec. 1948. 421 En88  
Notes on Alaskan insects.
- 37630 WEISS, H. B. Entomologists are human beings. *N. Y. Ent. Soc. J.* 57: 50. Mar. 1949. 420 N48J
- 37631 WILLIS, E. R., and ROTH, L. M. A microscope stage for continuous anesthesia of insects. *Science* 109: 230. Mar. 4, 1949. 470 Sci2
- GENERAL - ECONOMIC
- 37632 ADAIR, C. Spraying & dipping [cattle] means dollars & cents. *West. Livestock J.* 27(17): 40, 94. Feb. 15, 1949. 6 F2278  
Pest control.
- 37633 ARANT, F. S. Cotton insect control offers promise of more profit. *Victory Farm Forum* 34: 10. Mar. 1949. 281.8 F226
- 37634 ARE INSECTS rallying against DDT? *Amer. Fruit Grower* 69(2): 17, 39. Feb. 1949. 80 G85
- 37635 ARNASON, A. P. What is new in insecticides for horticultural plants. *West. Canad. Soc. Hort. Rpt. Proc.* 4: 51-54. 1948. 82 W522
- 37636 AYARS, J. S. Bugs are small, but they have big families. Here are 12 hungry fellows, and the latest ways to get rid of them. *Successful Farming* 47(3): 60-61, 63. Mar. 1949. 6 Su12
- 37637 BAERG, W. J. Introduction to applied entomology. Ed. 3, rev. Minneapolis, Burgess, 1948. 191 p. Ref. 423 B14
- 37638 BERAN, F. Österreichs pflanzenschutz im aufstieg. *Landwirtschaft* 1948: 339-341. Dec. 20, 1948. 19 L235
- 37639 BERAN, F. Waren die bekämpfungsmittel weniger wirksam? Zur rübenschädlingsskalamität 1948. *Landwirtschaft* 1948: 314-315. Nov. 25, 1948. 19 L235  
Control of sugar beet pests.  
Similar title in *Österr. Bauernbündler* 4(47): 4. Nov. 27, 1948. 19 Os7
- 37640 BERCK, B., and SMALLMAN, B. N. Chemical methods of measuring DDT. *Sci. Agr.* 29: 53-59. Ref. Feb. 1949. 7 Sci2
- 37641 BERTON, A. Désinsectisation des herbiers. *Feuille des Nat. (n. s.)* 2: 90. Sept./Oct. 1947. 410 F432
- 37642 BETTINI, S. The new insecticides. (In Italian.) *Ist. Super. di Sanit. Rend.* 11: 821-840. 1948. 449.9 R66  
French, English and German summaries.  
DDT analogs, benzene hexachloride, chlordane, pyrethrum synergists, and toxaphene.
- 37643 BISKIND, M. S. DDT poisoning and the elusive "virus X": a new cause for gastro-enteritis. *Amer. J. Digest. Dis.* 16: 79-84. Ref. Mar. 1949. 448.8 Am324  
Evidence that syndrome attributed to the hypothetical "virus X" is really DDT poisoning; also X disease in cattle.
- 37644 BLUNCK, H. Aerosole als schädlingsbekämpfungsmittel im ausland. *Z. f. Pflanzenkrankh.* 55: 154-173. Ref. May/June 1948. 464.8 Z3
- 37645 BOTT, R. Der einfluss des kontaktstoffes "Gix" auf den körper des schädlingss. *Anz. f. Schädlingssk.* 21: 91-95. Sept. 1948. 421 An9
- 37646 BOUVIER, R. La lutte biologique au service des végétaux. *Acad. des Sci. Colon. Compt. Rend.* 8: 545-558. Sept. 17, 1948. 505 Ac1Co  
Biological control of insects.
- 37647 BOVEY, P., and SAVARY, A. Les esters phosphoriques dans la lutte contre les insectes et les acariens nuisibles. *Rev. Romande d'Agr., de Vitic. et d'Arbor.* 5 (1): 1-3. Jan. 1949. 17 J82A  
Parathion and its use against mites, aphids, *Hoplocampa* spp., and *Carpocapsa pomonella*.
- 37648 BOVIEN, P. Animal pests in agricultural and horticultural crops. In *The humanities and the sciences in Denmark*, p. 589-591. Copenhagen, E. Munksgaard, 1948. 330 H882
- 37649 BRANNON, D. H., and BARTRAM, R. Evaluation of airplane applications of insecticides in controlling orchard pests. *Wash. State Hort. Assoc. Proc.* 44: 135-137. 1948. 81 W273
- 37650 BUSH, R. Some thoughts on winter washing. *Amateur Gard.* 65(3373): 17. Jan. 4, 1949. 80 Am13  
Spraying fruit.
- 37651 CAMERON, A. E. Insect pests of 1947. *Highland and Agr. Soc. Scot. Trans. (Ser. 5)* 60: 58-79. 1948. 10 H536
- 37652 CANO, F. New research and practical applications in arsenical compounds. (In Italian.) *Riv. della Ortoflorofruttic. Ital.* 32: 187-190. Nov./Dec. 1948. 86 R22  
English summary.
- 37653 CASA PACHECO, MARQUES DE. Parasitos comunes a varias plantas. *Cult. Mod.* 31: 409-410. Nov. 1948. 15 C89
- 37654 CHANG, H. T. The safety of four new insecticides. (In Chinese.) *Chin. J. Cotton* 1(2): 117-121. Ref. Nov. 11, 1948. 72.8 C444
- 37655 CHIAROMONTE, A. Again on the possibility of eliminating carbon disulfide in the disinfection of grain in storage warehouses. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 42: 273-274. Oct./Dec. 1948. 26 Ag82  
English summary.
- 37656 CURTIS PUBLISHING CO. RESEARCH DEPT. Agricultural insect & disease control recommendations. Philadelphia, 1948. 229 p. 464.4 C94
- 37657 DAHM, P. A. Chlordane is a versatile new insecticide. *Better Farming Methods* 21(3): 18, 32-33. Mar. 1949. 58.8 B46  
Uses and methods of application.
- 37658 DAME, F. Erfahrungen über schädlingsbekämpfung mit gesarol und hexachlorid-präparaten in den jahren 1946 und 1947. *Ceres [Hamburg]* 1948(5/6): 16-17. 80 C332
- 37659 DECKER, G. C. Recent developments in insecticides. *Natl. Shade Tree Conf. Proc.* 24: 38-46. 1948. 99.9 N218
- 37660 DEGRYSE, J. J. Insect problems in the growing of the new forest. *West. Forestry and Conserv. Assoc. Proc.* 39: 36-39. 1948. 99.9 W522
- 37661 DELANOUE, P. L'orientation de la lutte chimique contre les insectes nuisibles de l'agriculture. *Colon Franç. de Tunisie* 58(2077): 5-6. (To be cont.) Dec. 11, 1948. 24 C712
- 37662 DE ONG, E. R. Chemistry and uses of insecticides. New York, Reinhold, 1948. 345 p. 423 D44C
- 37663 DUNNAM, E. W., and others. Control cotton insects. *Miss. State Col. Ext. Leaflet* 84, 6 p.-folder. Apr. 1948. 275.29 M68Ex  
A. L. Hamner, C. Lyle, and L. C. Murphree, joint authors.



- 37664 EICHLER, W. Auffällige schädlingssvorkommen in Mitteldeutschland (1947). Anz. f. Schädlingssk. 21: 55-58. July 1948. 421 An9
- 37665 EYZAGUIRRE, C., and LILIENTHAL, J. L., JR. Veratrinic effects of pentamethylenetetrazol (metrazol) and 2,2-bis (p-chlorophenyl) 1,1,1, trichloroethane (DDT) on mammalian neuromuscular function. Soc. Expt. Biol. and Med. Proc. 70: 272-275. Feb. 1949. 442.9 Sol
- 37666 FERREE, R. J. Summer spray schedules for peaches. Clemson Agr. Col. S. C. Ext. Inform. Card 72, rev. Feb. 1949. 275.29 So81  
Pest control.
- 37667 FERRETTO, R. F. For successful control of fruit tree parasites. (In Italian.) Coop. e Agr. 31(6): 2. Feb. 12, 1949. 16 C78
- 37668 FJELDDALEN, J., and RAMSFJELL, T. Brief advice against the most important pest and diseases of cabbage, carrots and potato. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1949: 25-26. 86 N81
- 37669 FJELDDALEN, J., and GJAERUM, H. B. Insects in the orchards. (In Norwegian.) Norsk Hageselskap. Minneliste for Hagedyrkere 1949: 41-45. 86 N81  
Pest control.
- 37671 FUENTES NOVELLA, A. La plaga de los granos y manera de combaťirlos. Rev. de Agr., Com. e Indus. [Panama] 8(88): 18-28. Dec. 1948. 8 R3291
- 37672 FULTON, R. A., and ROHWER, S. A. Liquefied gas insecticidal aerosols. Soap & Sanit. Chem. 25(2): 122-124, 148C, 149. Ref. Feb. 1949. 307.8 So12
- 37673 GANTZ, H. L. They're fighting a two-front war. Farm & Ranch 68(2): 11, 16-17. Feb. 1949. 6 T31  
Control of livestock diseases and pests by the Texas Livestock Sanitary Commission.
- 37674 GEORGIA. AGRICULTURAL EXPERIMENT STATION. 1949 cotton insect control recommendations for Georgia. Ga. Agr. Expt. Sta. Press B. 608, 2 p. Feb. 1949. 100 G29P
- 37675 GÖTZ, B. Die wirkung von gesarol und anderen DDT-präparaten auf fische. Anz. f. Schädlingssk. 21: 39-40. June 1948. 421 An9
- 37676 GRAHAM, C., and others. 1949 Maryland spray calendar for apples and peaches. Md. Agr. Col. Ext. B. 122, 13 p. Jan. 1949. 275.29 M36B  
T. L. Bissell, L. O. Weaver, and A. F. Vierheller, joint authors.  
For pest control.
- 37677 GREAVES, T., and VENABLES, D. G. The insecticidal control of cabbage pests: a summary of experimental results, 1944-48. Austral. Council Sci. and Indus. Res. J. 21: 171-176. Aug. 1948. 514 Au72J
- 37678 GUNTHER, F. A., CARMAN, G. E., and ELLIOT, M. I. Inhibition of the field decomposition of DDT spray deposits on citrus; preliminary results. J. Econ. Ent. 41: 895-900. Dec. 1948. 421 J822
- 37679 HALLER, H. L. What we know about chemical detection of insecticidal residues or deposits. Natl. Canners Assoc. Inform. Let. 1219: 61-62. Jan. 26, 1949. 389.9 N214In
- 37680 HARMON, R. W., and POLLARD, C. B. Bibliography of animal venoms. Gainesville, U. of Fla. Press, 1948. 340 p. 241.6 H22  
Includes material on arthropod venoms.
- 37681 HÄRTEL, O., and SCHÄFFENBERG. Über die wirkung des Tososchen abflamverfahrens auf die obstbäume. Gart.-Z. Illus. Flora 72: 10-13. Jan. 1949. 80 G1991
- 37682 HEGDAL, L. Ought we to spray the orchard in the winter? (In Norwegian.) Norsk Landbr. 15: 88-89. Mar. 4, 1949. 11 N8122
- 37683 HEINRICHS, P. Vergesst nicht unsere gefiederten helfer im kampf gegen schadinsekten! Gartenjahr 4: 19-20. Feb. 1949. 80 G1932
- 37684 HOFSTEN, C. G. VON. The spraying problem in plant protection. (In Swedish.) Lantmannen 33: 144-145, 148. Feb. 26, 1949. 11 L234
- 37685 HOLMES, G. Orchard pest attack. Mod. Poultry Keeping 60: 183. Feb. 16, 1949. 47.8 Eg3
- 37686 HURST, H. Reversible action of D.D.T. Nature [London] 163: 286-287. Feb. 19, 1949. 472 N21
- 37687 IL'INSKII, A. I. Opredelitel' ŭitsekkladok, lichinok, i kukolok nasekomykh, vrednykh v lesnom khoziaistve [Guide to the ovipositors, larvae, and pupae of insects injurious in forestry]. Moskva, Gos. Lesotekhn. Izd-vo, 1948. 335 p. 423 IL5
- 37688 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Controlling stored grain insects on the farm. Ill. Agr. Col. Ext. NH247, 1 p. Mar. 31, 1948. 275.29 IL62Ph
- 37689 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The relative toxicity of certain new insecticides to mammals. Ill. Agr. Col. Ext. NH246, 2 p. Mar. 31, 1948. 275.29 IL62Ph
- 37690 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The uses of new insecticides on the farm. Ill. Agr. Col. Ext. NH249, 3 p. Mar. 31, 1948. 275.29 IL62Ph
- 37691 ISELY, E., and LINCOLN, C. Cotton insects in Arkansas. Ark. Agr. Col. Ext. C. 457, 28 p. Mar. 1948. 275.29 Ar4
- 37692 ISELY, D., and LINCOLN, C. Protect corn from insect injury. Ark. Agr. Col. Ext. Leaflet 103, 6 p. May 1948. 275.29 Ar4Le  
Stored corn.
- 37693 JANES, R. L. Common insects attacking cucumbers, squash, and melons. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 208-209. Mar. 1949. 389.8 F94
- 37694 KELLY, E. M. Kansas 4-H leaders supervise battle on insects. Better Farming Methods 21(4): 28, 44-45. Apr. 1949. 58.8 B46
- 37695 KLETT, W. Pflanzenschutz im monat dezember. Obst- u. Gartenbau 3: 77. Dec. 1, 1948. 80 Ob72  
Spraying of fruit trees.
- 37696 KNOWLTON, G. F. Livestock pest control, 1949. Utah. State Agr. Col. Ext. M. S. 2, 6 p. Jan. 24, 1949. 275.29 Ut1Ms
- 37697 KNOWLTON, G. F., ASHTON, C. D., and SORENSON, C. J. Official Utah fruit spray recommendations for 1949. Utah. State Agr. Col. Ext. B. 174, 16 p. Mar. 1949. 275.29 Ut1
- 37698 KÜHL, K., HOFFMANN, P., and BERGHOFF, M. Die wirksamkeit von hexachlorcyclohexan als kontaktinsektizid und seine anwendung in der tierärztlichen und landwirtschaftlichen praxis. Tierärztl. Umschau 3: 248-249. Aug. 1948. 41.8 T445
- 37699 KÜHL, R. Ungeziefer- und schädlingbekämpfung. Allgäuer Bauernbl. 17: 4-5, 32. Jan. 7, 21, 1949. 18 AL53
- 37700 KULASH, W. M. Benzene hexachloride-DDT combination dust for pest control. J. Econ. Ent. 41: 912-913. Dec. 1948. 421 J822  
Tests with Elasmopalpus lignosellus, Aphis gossypii, and Stictoccephala festina.
- 37701 KULASH, W. M. New insecticides for cotton insect control. J. Econ. Ent. 41: 986-987. Dec. 1948. 421 J822  
Tests with Anthonomus grandis and Heliothis armigera.
- 37702 KUPKA, H. Schädlingbekämpfung mit tabakstaub. Gärt.-Kurier 4(1): 3-4. Jan. 1, 1949. 80 G1942
- 37703 LEECH, H. B. The Canadian forest insect survey. (Abs.) Pan-Pacific Ent. 25: 37-38. Jan. 1949. 421 P193
- 37704 LE GOUPILS, P. Les techniques modernes de désinsectisation: les fumigations. Meun. Franç. 30: 33-36; 31: 36-38. Dec. 1948, Jan. 1949. 298.8 M57
- 37705 LEHMAN, A. J. The toxicology of the newer agricultural chemicals. Natl. Canners Assoc. Inform. Let. 1219: 57-59. Jan. 26, 1949. 389.9 N214In  
Insecticides.
- 37706 LEPESME, P. Note préliminaire sur la faune entomologique du Ficus thonningii Bl. en Haute-Volta. Rev. de Path. Veg. et d'Ent. Agr. de France 27: 143-146. July 1948. 464.9 Sol
- 37707 LEVER, R. J. A. W. New insect pest records in the British Solomon Islands. Fiji Dept. Agr. Agr. J. 19: 50-52. June 1948. 25 F47Ag
- 37708 LIBBEY, R. B. Lawn pests. Amateur Gard. Ann. 1949: 37. 80 Am12



- 37709 LODEN, H. D., and LUND, H. O. Chlorinated camphene and parathion to control the cotton boll weevil [*Anthonomus grandis*] and cotton aphid [*Aphis gossypii*]. *J. Econ. Ent.* 41: 851-853. Dec. 1948. 421 J822
- 37710 LORD, K. A. The sorption of DDT and its analogues by chitin. *Biochem. J.* 43: 72-78. 1948. 382 B52
- 37711 LYLE, C. New orchard dusts, sprays being tested. *Miss. Farm Res. [Miss. Sta.]* 12(2): 1, 8. Feb. 1949. 100 M69M1
- 37712 MCDONALD, J. E., and FUDGE, J. F. Commercial insecticides and fungicides in Texas, 1947-48. *Tex. Agr. Expt. Sta. C.* 121, 15 p. Dec. 1948. 100 T31S
- 37713 MAYER, K., and STRENZKE, K. Versuche mit Gix zur bekämpfung von fliegen und mücken. *Anz. f. Schädlingk.* 21: 74-76. Aug. 1948. 421 An9
- 37714 MAYEUX, H. S. Bugs have been feasting in vegetable fields. *Tex. Farming & Citric.* 25(8): 6. Feb. 1949. 80 T31
- 37715 MORALES M., E. Algunas plagas que atacan al tomate. *Suelo Tico* 1: 135-137. Sept. 1948. 8 Su2
- 37716 MORLEY, W. J. Insects inhabiting the cones of white spruce. *Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt.* 4(6): 2. Nov./Dec. 1948. 423.92 C16F
- 37717 MULLER, F. P. Wurmstichiges obst. *Kleingärt. u. Siedler* 2: 100. Sept. 1948. 80 K67
- 37718 MURPHREE, L. C. Kill household insects. *Miss. State Col. Ext. Leaflet* 85, 8 p.-folder. July 1948. 275.29 M68Ex
- 37719 MURPHREE, L. C. Kill those garden bugs. *Miss. State Col. Ext. C.* 145, 8 p. Mar. 1948. 275.29 M68C
- 37720 NAVAJAS, E. A few insects of the orange. (In Portuguese.) *Chacaras e Quintais* 78: 693-694. Dec. 15, 1948. 9.2 C34
- 37721 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BRANCH. Insect pest survey for the year ending 30th June, 1948. *Sydney*, 1948. 30 p. 423.92 N472
- 37722 NEWCOMER, E. J. New weapons help in pest fight; advanced application equipment, parathion, toxaphene, and other recently developed insecticides are boon to the fruit grower. *Amer. Fruit Grower* 69(2): 18, 44-45. Feb. 1949. 80 G85
- 37723 NICOL, J. Les insectes du cacaoyer. *B. Agr. du Congo Belge* 39: 679-802. Dec. 1948. 24 K83
- 37724 NIVEN, L. A. Whether they cut, chew, or suck—all are killers—these robbers in the garden. *Prog. Farmer, Miss.-Ark.-La. Ed.* 64(2): 68. Feb. 1949. 6 So81
- Insect pests.
- 37725 NORTON, L. B. Sampling techniques for making residue analyses. *Natl. Canners Assoc. Inform. Let.* 1219: 63. Jan. 26, 1949. 389.9 N214In
- 37726 ORLOV, V. I., GAR, K. A., and GABRIELOVA, M. G. Development of industry of agricultural poisonous chemicals (insecticides and fungicides) for 30 years. (In Russian.) *Khim. Promysh.* 1947: 341-344. Nov. 1947. 385 K523
- 37727 ORR, R. T. Bakery insect control. *Baker's Digest* 23(1): 37. Feb. 1949. 389.8 S11
- 37728 OSBORN, H., and others. Recent insect invasions in Ohio. *Ohio. Biol. Survey B.* 40: 355-385. Ref. Jan. 1948. 442.9 Oh3
- Contents: Introductory note, by H. Osborn. The Mexican bean beetle [*Epilachna varivestis*] in Ohio, by N. F. Howard. The European corn borer *Pyrausta nubilalis* Hubn, by C. R. Neiswander. The oriental fruit moth *Grapholitha molesta* (Busck), by N. D. Blackburn. Comstock's mealybug *Pseudococcus comstocki* (Kuw.), by C. R. Cutright. The European red mite [*Paratetranychus pilosus*], by C. R. Cutright. Sweet clover weevil [*Sitona cylindricollis*] by T. H. Parks. The tomato pinworm [*Keiferia lycopersicella*], by R. B. Neiswander. Japanese beetle in Ohio; *Popillia japonica* Newm., by J. B. Polivka.
- 37729 PAGÁN, C., and WHITE, D. G. The evaluation of rotenone in Derris elliptica on the basis of total chloroform extractives. *Assoc. Off. Agr. Chem. J.* 32(1): 143-146. Feb. 15, 1949. 381 As7
- 37730 PAGÁN, C. Guppies used in assaying insecticidal value of rotenone-bearing root. *U. S. Agr. Res. Admin. Res. Achvt. Sheet* 115, 2 p. Jan. 1949. 1.98 R31
- 37731 PAGÁN, C. The use of guppies in the toxicological assay of Derris and *Lonchocarpus* roots. *J. Econ. Ent.* 41: 942-945. Dec. 1948. 421 J822
- 37732 PEPPER, J. H., and others. Montana insects pests 1947 and 1948; thirty-second report of the State entomologist. *Mont. Agr. Expt. Sta. B.* 457, 28 p. Jan. 1949. 100 M76
- O. B. Hitchcock, C. R. Hunt, and R. Schmiedeskamp, joint authors.
- 37733 PHILIBERT, M. Les huiles blanches. *Vaucluse Agr.* 5: 13. Jan. 1, 1949. 14 V26
- For insect control.
- 37734 POOTJES, J. R. Methyl bromide as a fumigant. (In Dutch.) *Landbouw* 20: 391-399. Ref. Sept./Oct. 1948. 22.5 L23
- 37735 POPHAM, W. L. Recent developments in control procedure. (Abs.) *Ent. Soc. Wash. Proc.* 51: 44. Feb. 1949. 420 W27
- 37736 POST, R. L., COLBERG, W. J., and MUNRO, J. A. Effect of insecticides on tuber yield and insect population. *N. Dak. Agr. Expt. Sta. Bimo. B.* 11(3): 92-95. Jan./Feb. 1949. 100 N813B
- 37737 POTTER, C. Tetraethyl pyrophosphate as an insecticide. *Nature [London]* 163: 379. Mar. 5, 1949. 472 N21
- 37738 POWELL, D., CHANDLER, S. C., and KELLEY, V. W. Pest control in commercial fruit plantings. III. *Agr. Col. Ext. C.* 634, 40 p. Jan. 1949. 275.29 IL62C
- Chiefly insect and disease control.
- 37739 PUSSARD, R. Influence de quelques insecticides de synthèse incorporés dans le sol sur la végétation de l'oeillet cultivé. *Acad. d'Agr. de France. Compt. Rend.* 34: 1001-1004. Dec. 8/22, 1948. 14 P215Bc
- 37740 PUSSARD, R. Précisions sur l'emploi des insecticides de synthèse appliqués aux parties aériennes de l'oeillet cultivé. *Acad. d'Agr. de France. Compt. Rend.* 34: 998-1001. Dec. 8/22, 1948. 14 P215Bc
- 37741 QUINTANILLA, R. H. Los insectarios y la lucha contra las plagas. *Bolsa de Cereales, Buenos Aires. Rev.* 36(1882): 20-23. Jan. 20, 1949. 287 B866
- 37742 RAGUÉ BOTÉY, F. El premio Nobel al creador del D. D. T. *Cult. Mod.* 31: 451-452. Dec. 1948. 15 C89
- 37743 REEKS, W. A. Forest insect survey in Newfoundland. *Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt.* 4(6): 1. Nov./Dec. 1948. 423.92 C16F
- 37744 RISBEC, J. Dans quelle mesure la menace des insectes affecte-t-elle la production de l'arachide? *Rev. Internat. de Bot. Appl. d'Agr. Trop.* 28: 381-389. Sept./Oct. 1948. 26 R323
- 37745 ROHWER, S. A. Use and misuse of DDT, BHC, DDD, (DDE), chlordan, toxaphene, methoxychlor and parathion for canning crops. *Natl. Canners Assoc. Inform. Let.* 1219: 59-61. Jan. 26, 1949. 389.9 N214In
- 37746 RONEY, J. N. Cotton insect control. *Ariz. Agr. Col. Ext. Folder* 54, i. e., 55, 4 p. Feb. 1949. 275.29 Ar42Ext
- 37747 RONEY, J. N. Fruit insect control hints. *Ariz. Agr. Col. Ext. C.* 148, 11 p. Feb. 1948. 275.29 Ar42
- 37748 SALERNO, P. R., and COON, J. M. A pharmacologic comparison of hexaethyl tetraphosphate (HETP) and tetraethyl pyrophosphate (TEPP) with physostigmine, neostigmine and DFP. *J. Pharmacol. & Expt. Ther.* 95: 240-255. Ref. Feb. 1949. 396.8 J82
- 37749 SALVATERRA, G., and VANZETTA, E. Report on experiments with different commercial insecticides. (In Italian.) *Riv. di Fruttic.* 11: 36-45. Jan. 1949. 80 R52
- 37750 SARLES, M. P., DOVE, W. E., and MOORE, D. H. Acute toxicity and irritation tests on animals with the new insecticide, piperonyl butoxide. *Amer. J. Trop. Med.* 29: 151-166. Ref. Jan. 1949: 448.8 Am33
- 37751 SCHARFF, D. K. Livestock insect control; new insecticides, well applied, are effective. *Mont. Farmer-Stockman* 36(13): 39-41. Mar. 1, 1949. 6 M764



37752 SCHMIDT, G. Zur kenntnis der wirkungsweise inerte tr gerstoffe auf insekten. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 130-131. July/Aug. 1948. 464.9 N11

37753 SCHREAD, J. C. Science discovers some new tools for lawn insect control. Frontiers Plant Sci. 1: 3, 8. Nov. 1948. 100 F92  
DDT and chlordane.

37754 SHERWOOD, E. C., and BISHOP, C. F. Spray schedules for home orchards. Wash. State Col. Ext. C. 351, 6 p.-folder. Dec. 1948. 275.29 W522C  
For pest control.

37755 SMIT, B. The fight against insect pests. Farming So. Africa 23: 751-752. Nov. 1948. 24 So842

37756 SMITH, K. M. A textbook of agricultural entomology. Ed. 2. Cambridge, U. Press, 1948. 289 p. 423 Sm52

37757 STANLEY, W. W. DDT; its use in control of insect pests. Tenn. Agr. Col. Ext. P. 293, rev., 16 p. Jan. 1948. 275.29 T25

37758 STEARNS, C. R., JR., THOMPSON, W. L., and GRIFFITHS, J. T. Effect of methods of application on copper, sulphur and oil deposits obtained by spraying and dusting. Citrus Indus. 30(3): 9, 11-12, 14. Mar. 1949. 80 C49

37759 STEENLAND, A. P., JONES, S. C., and ROBINSON, R. H. Spray program for the control of diseases and insect pests of cherries in western Oregon. Oreg. Agr. Expt. Sta. C. Inform. 448, 5 p. Jan. 1949. 100 Or3C

37760 STEINER, P. Die neuen kontaktinsektizide der DDT-, Hexa- und E-gruppe. Anz. f. Sch dlingsk. 21: 33-36. June 1948. 421 An9

37761 STELLWAAG, F. Statt winterspritzung verbesserte vorbl tenspritzung? Obst- u. Gartenbau 3: 73-74. Dec. 1, 1948. 80 Ob72  
Of fruit.

37762 STROBL. Die gefahren des waldes. Landwirtschaft 1948: 319-320. Nov. 25, 1948. 19 L235  
Control of forest pests.

37763 SVIRBELY, W. J., and others. Physical properties of some organic insect repellents. Amer. Chem. Soc. J. 71: 507-509. Feb. 1949. 381 Am33J  
W. M. Eareckson, III, K. Matsuda, H. B. Pickard, I. S. Solet, and W. B. Tuemmler.

37764 SWARBRICK, T. Atomised oils as spray carriers. Grower [London] 31: 203, 205. Jan. 29, 1949. 286.83 M34

37765 TAYLOR, F. J. Darndest farm you ever saw; bugs, worms, fungi and other crop enemies are encouraged to do their worst by the operators of this unique research farm. Country Gent. 119(3): 38, 112, 114-115. Mar. 1949. 6 C833

The Shell Agricultural Laboratory, near Modesto, California.

37766 TAYLOR, J. Pesticidal smokes. Research 2: 98-99. Feb. 1949. 472 R31

37767 TENNESSEE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Spraying your home fruit. Tenn. Agr. Col. Ext. Leaflet 73, rev., 6 p. Jan. 1948. 275.29 T25L

37768 THOMPSON, W. L., STEARNS, C. R., and GRIFFITHS, J. T. Status of parathion as insecticide for Florida citrus. Citrus Indus. 30(3): 5-8, 12. Mar. 1949. 80 C49

37769 TILDEN, J. W. The insect fauna of Baccharis pilularis. (Abs.) Pan-Pacific Ent. 25: 42-43. Jan. 1949. 421 P193

37770 TRENNER, N. R., and others. Determination of gamma isomer of benzene hexachloride. Analyst. Chem. 21: 285-290. Ref. Feb. 1949. 381 J825A

R. W. Walker, B. Arison, and R. P. Buhs, joint authors.

37771 TRUHAUT, R., and VINCENT, D. L'action insecticide du 1.1.1-trichloro-2.2 bis (p-chloroph nyl)- thane (D.D.T.) se ram ne-t-elle   un effet anticholinest rasique? Paris. Acad. des Sci. Compt. Rend. 227: 738-740. Oct. 11, 1948. 505 P21

Experiments with Musca domestica and Leptinotarsa decemlineata.

37772 TRUHAUT, R., and VINCENT, D. Contribution   l' tude du m canisme de l'action toxique de l'insecticide D.D.T. Soc. de Chim. Biol. B. 30: 694-699. Ref. Sept./Oct. 1948. 383 So1

37773 TURNER, N. Control of insects on tobacco. Conn. (State) Agr. Expt. Sta. C. 167, 4 p. Feb. 1949. 100 C76St

37774 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Conference report on cotton insect research and control, Baton Rouge, Louisiana, November 8-10, 1948. Washington, 1948. 26 p. 1.967 A2C76

37775 WALZ, A. J. The roll of insecticides in seed production. Seed World 64(6): 42, 44. Mar. 18, 1949. 61.8 Se52

37776 WEBSTER, R. L. New insecticides: their limitations and hazards to human health. Wash. State Hort. Assoc. Proc. 44: 119-121, 123-128. 1948. 81 W273

37777 WENCK, F. Erfahrungen bei der winterspritzung der obstb ume. Anz. f. Sch dlingsk. 21: 21-22. May 1948. 421 An9

37778 WHEELER, E. H. Know the pests you fight. Rural New-Yorker 99: 182-183. Mar. 5, 1949. 6 R88

37779 WHEELER, E. H. Make effective use of the safer spray oils in 1949. East. States Coop. 25(2): 16-17. Feb. 1949. 280.28 Ea7  
Insecticide.

37780 WHILLIS, J. Hundreds of helpers in your garden. Smallholder 80(2027): 14-15. Feb. 4, 1949. 10 Sm1

Beneficial birds and insects.

37781 WHITCOMB, W. D. Chlordane report. Horticulture 26: 431. Nov. 1948. 80 H787

37782 WHITE, W. H. Avoiding harmful residues in vegetable crops. Natl. Canners Assoc. Inform. Let. 1219: 64-65. Jan. 26, 1949. 389.9 N214In

37783 WILSON, G. F. HETP—a nicotine substitute. Roy. Hort. Soc. J. 74: 116-121. Mar. 1949. 84 L84J  
Hexaethyl tetraphosphate.

37784 WILSON, J. R. Are pesticides making your food unsafe? Hygeia 27: 44-45, 66. Jan. 1949. 449.8 H993

37785 WOLF, J. P. M. V. D. Winterspraying. What preparation do we select? (In Dutch.) Boer en Tuinder 3(108): 4. Jan. 29, 1949. 12 B632

37786 YEOMANS, S. W. The problems of pest infestations; control in flour mills. Milling 112: 184-185, 188. Feb. 19, 1949. 298.8 M622

## APICULTURE AND APIS MELLIFERA

37787 ABIBON, L. Une des multiples formes de coop ration: la coop rative d'apiculture. France. Min. de l'Agr. B. Tech. d'Inform. 33: 513-514. Oct. 1948. 14 F844B

37788 ABRAMS, G. J. Migratory bee culture in Maryland. Md. Agr. Expt. Sta. B. A48, 21 p. Sept. 1948. 100 M36S

37789 ALLEN, W. P. The hive bee in the Isle of Man. Manx J. Agr. (n. s.) 3(3): 47-48. Jan. 1949. 10 M312

Value as pollinators.

37790 BERNETT, A. W. Bees for the fun of it. Beekeepers Mag. 12(2): 11-13. Feb. 1949. 424.8 M58

37791 BOHNE, G. W. I remember when—an old 'bee-hound' reminisces nostalgically about beekeepers in the Nineties as he knew them in his Louisiana farm community. South. Beekeeper 2(12): 5. Dec. 1948. 424.8 So83

37792 BOURDON. Apiculture: les ruches automatiques. Monit. Agr. 1(50/51): 33. Dec. 25, 1948/Jan. 1, 1949. 14 M744

37793 CAILLAS, A. Le traitement des arbres fruitiers et la protection des abeilles. Terre 224: 2. Jan. 27/Feb. 2, 1949. 281.8 T27

37794 CHAUVIN, R. L'apiculture fran aise devant les progr s r alis s   l' tranger. G nie Rural 42: 76-77. Feb. 1949. 58.8 Au8

37795 CLAUDE. Il y a deux mille ans. Belg. Apic. 13: 10-11. Jan./Feb. 1949. 424.8 B41

37796 COUTI RE, G. La pollinisation par les abeilles. B. des Engrais 20: 478-479. Dec. 1948. 57.8 B87

37797 DAN S PONS, J. Colmenas en general. Balearic Isl. Diputaci n Prov. B. de Agr. 51: 5-6. Dec. 1948. 15 B19



37798 DU PRE, W. DE V. Bee-keeping in Jersey. Good Bee-Keeping 12: 170-171. Dec. 1948. Ent. Sub-Br. Libr.

37799 EAVES, D. Let's take it now. Beekeepers Mag. 12(2): 9-11. Feb. 1949. 424.8 M58 Federal aid, or regimentation.

37800 ERICKSON, J. F. Beekeeping in Oregon. Gleanings Bee Cult. 76: 684-685. Nov. 1948. 424.8 G47

37801 EVENIUS, J. Gefährdung der bienenzucht durch kontaktgifte. Anz. f. Schädlingsk. 21: 37-39. June 1948. 421 An9

37802 FICKER, Die ursachen der geringen honigerträge im Alpenvorland. Allgäuer Bauernbl. 16: 341-342. Dec. 24, 1948. 18 AL53

37803 FREUD, H. A long range bee pasture policy. Gleanings Bee Cult. 76: 688-689. Nov. 1948. 424.8 G47

37804 GARDNER, L. C. The storm warnings are up! Beekeepers Mag. 12(3): 15-16. Mar. 1949. 424.8 M58 Situation and outlook.

37805 GONTARSKI, H. Ein vitamin C oxydierendes ferment der honigbiene. Z. f. Naturf. 3b: 245-249. July/Aug. 1948. 474 Z3

37806 GORING, A. Starting afresh in the country. 4. Honey farming. Countryman [Burford] 38: 221-224. Winter 1948. 281.28 C832

37807 GRAN, W. T., JR. Streamlined bee feeding; it reduces head and backaches. Gleanings Bee Cult. 77: 137-138. Mar. 1949. 424.8 G47

37808 GROUT, R. The American Beekeeping Federation: objectives and accomplishments. Gleanings Bee Cult. 77: 144-145, 149, 173. Mar. 1949. 424.8 G47 Also in Amer. Bee J. 89: 132-133. Mar. 1949. 424.8 Am3

37809 GUILHON, J., and MEMERY, R. Essais de traitement de la loque européenne par une amino-phénylsulfone. Acad. d'Agr. de France. Compt. Rend. 34: 986-988. Dec. 8/22, 1948. 14 P215Bc

37810 HIETT, A. D. For the bee-keepers. Mountaineer Grower 19(175): 43, 45. Feb. 1949. 80 M86 Chiefly on poisoning of bees from sprays.

37811 HITCHCOCK, J. D. A rare gregarine parasite [Leidyana sp.?] of the adult honey bee. J. Econ. Ent. 41: 854-858. Ref. Dec. 1948. 421 J822

37812 HOLZBERLEIN, J. W., JR. Modern methods lower costs. Amer. Bee J. 89: 128-129, 139. Mar. 1949. 424.8 Am3

37813 HOOPER, M. M. An experiment in treating neuritis with bee stings. Beekeeping 15: 29. Feb. 1949. 424.8 B3991

37815 HUSTON, S. A beginner tells all. Beekeepers Mag. 12(2): 14-15. Feb. 1949. 424.8 M58

37816 HUSTON, S. A beginner tries electric heat. Beekeepers Mag. 12(3): 11-12. Mar. 1949. 424.8 M58

37817 JAUME, J. Las abejas saben defenderse. Balearic Isl. Diputación Prov. B. de Agr. 51: 7. Dec. 1948. 15 B19

37818 JERUSALEM, O. Letter from a German beekeeper. South. Beekeeper 2(12): 6-7. Dec. 1948. 424.8 So83

37819 KATZNELSON, H. Sulphathiazole and AFB. 2. Canad. Bee J. 57(2): 9-10, 16-19. Feb. 1949. 424.8 C16

37820 KIRKOR, S. Foul brood and its distribution in Poland. (In Polish.) Med. Wet. 4(11): 695-701. Nov. 1948. 41.8 M463 English summary.

37821 KNOWLTON, G. F. Control fruit pests without poisoning bees. Utah. State Agr. Col. Ext. M. S. 8, 1 p. Mar. 1949. 275.29 UtlMs

37822 KNOWLTON, G. F. Keep the bees flying. Utah Farmer 68(12): 7. Feb. 12, 1949. 6 D45 Honey bees as pollinators.

37823 KRACK, K. E. Die reinlichkeit der bienen. Imkerfreund 3: 77. Sept. 1948. 424.8 Im43

37824 LABARTHE, E. A. Como iniciarse en apicultura. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr. 15: 55-60. Oct. 1948. 9.8 P4352

37825 LATHAM, A. Do they never? Gleanings Bee Cult. 76: 713. Nov. 1948. 424.8 G47 Bee behavior.

37826 MILNE, P. S. Treatment of acarine disease with sulphur fumes. Beekeeping 15: 30-31. Feb. 1949. 424.8 B3991

37827 MILUM, V. G. Grooming dance and associated activities of the honey bee colony. Gleanings Bee Cult. 76: 676-677, 685. Nov. 1948. 424.8 G47

37828 MORRIS, E. W. T. Make wind proof your hive roof. Beekeeping 15: 41-42. Feb. 1949. 424.8 B3991

37829 MORSTATT, F. Bienen und schädlingbekämpfung. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 129-130. July/Aug. 1948. 464.9 N11

37830 MUIR, A. The dual hive. West. Canada Beekeeper 12(3): 10-11. Mar. 1949. 424.8 W525

37831 MUNRO, J. A. Apiary inspection goals. AIA president urges nation-wide uniformity in inspection methods, disease control, and certification. South. Beekeeper 3(1): 12-13. Jan. 1949. 424.8 So83

37832 NUNN, A. Getting started with bees. Prog. Farmer, Car.-Va. Ed. 64(3): 24. Mar. 1949. 6 P945

37833 OLSEN, C. E. Bees perform a miracle in pollination. Gleanings Bee Cult. 77: 139-141. Mar. 1949. 424.8 G47

37834 PAGUIRIGAN, D. Outlines of Philippine crops. Agr.-Com.-Indus. Life 11(1/2): 20. Jan./Feb. 1949. 25 Ag8

Apiculture.

37835 PALMER, S. What price socialism? West. Canada Beekeeper 12(3): 3, 11-14. Mar. 1949. 424.8 W525

On bee behavior.

37836 PAVORD, A. V. Basic beekeeping. Fireside beekeeping. Good Bee-Keeping 12: 166-168. Dec. 1948. Ent. Sub-Br. Libr.

37837 PEATTIE, D. C. Honey—golden wonder. Nature Mag. 42: 163-166. Apr. 1949. 409.6 N214

37838 PETZOLD, A. Russische bienenzucht. Imkerfreund 3: 78. Sept. 1948. 424.8 Im43

37839 PIUS-XII, POPE. Der Papst und die bienen. (Excerpts.) Imkerfreund 3: 77. Sept. 1948. 424.8 Im43

37840 REHMAN, G. Section comb honey production. Gleanings Bee Cult. 77: 148-149. (Cont.) Mar. 1949. 424.8 G47

37841 REID, A. L. American foul brood and other diseases and pests of bees. Farmer [Kingston] 52: 142-147. July/Sept. 1948. 8 J223

37842 RENNIE, L. C. Annual report from a one colony apiary in southern Maryland. Gleanings Bee Cult. 77: 146-147, 183. (Concl.) Mar. 1949. 424.8 G47

37843 ROBINSON, E. Observations on beekeeping. West. Canada Beekeeper 12(3): 8-9. Mar. 1949. 424.8 W525

37844 ROSELLA, E. Toute l'apiculture française se proclame en péril; car l'interdiction d'emploi des insecticides de synthèse sur les plantes en floraison n'a pu être respectée. Prog. Agr. et Vitic. 1949: 65-70. Jan. 30, 1949. 14 P94

37845 ROYO, A. D. Un peligro para la apicultura. Valencia Avic. 5(8): 25. Sept. 1948. 47.8 V23 Allanthus nectar imparts disagreeable odor and flavor to honey.

37846 RYMASHEVSKIĬ, V. K. Role of various races of honeybees and bumble bees [Bombidae] in the pollination of red clover. (In Russian.) Selek. i Semen. 15(6): 33-37. June 1948. 61.9 Se5

37847 SHARON, J. Winged pollination experts; the forgotten honey bee comes back into its own. Iowa Agriculturist 48(6): 13. Jan. 1949. 6 Io9

37848 SHEINFELD, D. The 11-year old apiary at Amir. (In Hebrew.) Hassadeh 29: 98-100. Dec. 1948. 26 H27

37849 ŠISTEK, V. How to prepare sugar sirup for bee-training. (In Czech.) Českoslov. Akad. Zeměděl. Vest. 22: 539-541. Dec. 15, 1948. 19.5 C332 English and Russian summaries.

37850 SLIPP, S. A. Easy way to handle. West. Canada Beekeeper 12(3): 16. Mar. 1949. 424.8 W525

37851 SMITH, J. Feeding honey without robbing. South. Beekeeper 2(12): 11. Dec. 1948. 424.8 So83

37852 SMITH, R. F., and others. The effect of DDT dusting on honeybees. J. Econ. Ent. 41: 960-971. Ref. Dec. 1948. 421 J822

J. W. MacSwain, E. G. Linsley, and F. R. Platt, joint authors.



37853 SMITH, R. L., BECK, J. V., and ANDERSON, E. J. The effect of pollen on the sporulation of *Bacillus larvae* (White). *J. Bact.* 57: 213-218. Feb. 1949. 448.3 J82

37854 TILLIÈRE, A. Plateaux diviseurs. *Belg. Apic.* 13: 4-7. Jan./Feb. 1949. 424.8 B41

37855 TREUIL, P. Le bœnuu corrézien. *Rev. Franç. d'Apic.* 36: 718-719. Dec. 1948. 424.8 R329

37856 TRUBERT, E. Apiculture ecossaise. *Rev. Franç. d'Apic.* 36: 724-725. Dec. 1948. 424.8 R329

37857 U. S. BUR. OF AGRICULTURAL ECONOMICS. Shipments of package bees in 1948. Washington, 1949. 2 p. 1.941 S8B39

37858 VANSELL, G. H., and REINHARDT, J. F. Do honey bees help pollinate baby lima beans? *Gleanings Bee Cult.* 76: 678-679. Nov. 1948. 424.8 G47

37859 VAYSSIÈRE, P. Les recherches apicoles et sérécicoles en France et dans les territoires coloniaux. *Acad. d'Agr. de France. Compt. Rend.* 34: 949-952. Dec. 8/22, 1948. 14 P215Bc

37860 WAHLIN, B. Modern insecticides and the bees. (In Swedish.) *Lantmännen* 33: 135. Feb. 19, 1949. 11 L234

Criticism of article by E. Kjellander in *Lantmännen*, No. 6, 1949. Reply by E. Kjellander, p. 135-136.

37861 YAO, T. C., and KNOWLTON, G. F. Surface arsenic occurrence on some plants attractive to bees. *Utah. Agr. Expt. Sta. Mimeog. Ser.* 349, 8 p. Mar. 1949. 100 Utl1Mi

Also in *Farm & Home Sci.* [Utah Sta.] 10: 18. Mar. 1949. 100 Utl1

37862 ZANDER, E. D. H. Leitfaden einer zeitgemässen bienenzucht. München, Ehrenwirth, 1948. 170 p. 424 Z1L

37863 ZVERINA, F. Apiculture co-operation. (In Czech.) *Družstevní Rev.* 2: 151-152. Jan. 1949. 280.28 D84

#### Colony Management

37864 BARNES, R. W. Value of pollen supplement in queen rearing. *Gleanings Bee Cult.* 77: 142-143. Mar. 1949. 424.8 G47

37865 BARNETTE, L. A. M. Problems in experimental queen breeding. *South. Beekeeper* 3(1): 8-9, 18. Jan. 1949. 424.8 So83

37866 BERNETT, A. W. Where shall we keep bees. *Beekeepers Mag.* 12(3): 13-14. Mar. 1949. 424.8 M58

37867 COX, L. F. Requeening without dequeening. *South. Beekeeper* 2(12): 4. Dec. 1948. 424.8 So83

37868 GOODACRE, W. A. Management in a record season to achieve maximum quality. *Agr. Gaz. N. S. Wales* 59: 655-657. Dec. 1, 1948. 23 N472

Bee keeping in New South Wales.

37869 HYDE, F. A. Lullaby of the bees. *Good Bee-Keeping* 12: 168-169. Dec. 1948. *Ent. Sub-Br. Libr.* Quieting.

37870 LANGLEY, C. G. Winter care of bees. *Farmer* [St. Paul], *Dak. Ed.* 66(23): 9, 32. Dec. 4, 1948. 6 F2211D

37871 LEITNER, J. Erfahrungen bei der ueberwinterung mit geschlossenem flugloch. *Imkerfreund* 3: 82. Sept. 1948. 424.8 Im43

37872 MATHIS, M. Biologie expérimentale; colonies d'abeilles (*Apis mellifica* var. *punica*) entretenant et nourrissant plusieurs dizaines de reines, vierges et fécondées. *Belg. Apic.* 13: 11-12. Jan./Feb. 1949. 424.8 B41

37873 RAHMLow, H. J. When does brood rearing begin? *Amer. Bee J.* 89: 124-125. Mar. 1949. 424.8 Am3

Brood in January.

37874 SHENTON, G. G. Let's keep more nuclei. *West. Canada Beekeeper* 12(3): 15. Mar. 1949. 424.8 W525

37875 STÖCKERL, P. E. Aus der imkerpraxis. *Imkerfreund* 3: 78-79. Sept. 1948. 424.8 Im43

37876 TAYLOR, M. I. In reply to "a method of wintering." *Gleanings Bee Cult.* 76: 682-683. Nov. 1948. 424.8 G47

37877 TAYLOR, M. I. Langstroth was one hundred years ahead of his time. *Amer. Bee J.* 89: 127, 146-147. Mar. 1949. 424.8 Am3

Colony management.

See also Honey and Beeswax in Agricultural Products Section.

#### ARACHNIDA, MYRIAPODA, ETC.

37878 ARCANGELI, A. The genus *Halophiloscia* Verhoeff in the Mediterranean Region. (In Italian.) *Arch. Zool. Ital.* 33: 473-485. 1948. 410 Ar22

French and English summaries.

37879 ARCANGELI, A. On a special rufous mutation in the genus *Armadillidium* (Crustacea. Isopoda terrestria). (In Italian.) *Arch. Zool. Ital.* 33: 203-211. 1948. 410 Ar22

French and English summaries.

37880 ARCANGELI, A. On the existence and variability of the respiratory area in the exopodites of the pleopods of the genus *Philoscia* Latr. (Crustacea. Isopoda terrestria). (In Italian.) *Arch. Zool. Ital.* 33: 195-202. Ref. 1948. 410 Ar22

French and English summaries.

37881 ARTHUR, D. R. The scutum of the tick, *Ixodes ricinus* L. *Parasitology* 39: 235-240. Feb. 1949. 448.8 P21

37882 BAKER, E. W., and STRANDTMANN, R. W. *Myrmonyssus chapmani*, a new species of hypoaspid mite (Acarina: Laelaptidae). *J. Parasitol.* 34: 386-388. Oct. 1948. 448.8 J824

37883 BERGERET, C. F. J., and RAOULT, A. Note sur les formes nerveuses de la fièvre récurrente—fièvre récurrente à tiques en Afrique Occidentale Française. U. S. Dept. State. *Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 231-239. 1948. 150 In822

37884 BERLAND, L. Les araignées du genre *Nemoscolus*. *Nature* [Paris] 3167: 90. Mar. 1949. 473 N21

37885 BIRABÉN, M. Sobre el nombre de nuestra araña gregaria *Eriophora bistrata* (Rengg.) y notas ecológicas sobre la misma especie. (Abs.) *Soc. Ent. Argentina Rev.* 14: 169-170. Oct. 25, 1948. 420 So14

37886 BISHOP, S. C. The function of the spur on the femur of the palpus of the male, *Leiobunum calcar* (Wood) (Arachnida: Phalangida). *Ent. News* [Philadelphia] 60: 10-11. Jan. 1949. 421 En88

37887 BREakey, E. P., and BATCHELOR, G. S. The Willamette mite [*Tetranychus willamettei*] a pest of raspberries in the Puyallup Valley. *J. Econ. Ent.* 41: 987-988. Dec. 1948. 421 J822

37888 CHAMBERLIN, R. V. A new family [Ergethidae] in the diplopod order Chordeumida. *Wash. Biol. Soc. Proc.* 62: 7-8. Mar. 17, 1949. 500 W272

Based on *Ergethus* n. g.

37889 CHAMBERLIN, R. V. A new genus [*Cherokia*] and four new species in the diplopod family Xystodesmidae. *Wash. Biol. Soc. Proc.* 62: 3-5. Mar. 17, 1949. 500 W272

New species in *Signoria*, *Dynoria*, and *Nannaria*.

37890 CHAMBERLIN, R. V. On some American spiders of the family Erigonidae. *Ent. Soc. Amer. Ann.* 41: 483-562. Dec. 1948. 420 En82

Includes new species in *Anacornia*, *Catabrithorax*, *Ceraticelus*, *Ceratinella*, *Ceratinops*, *Ceratinopsis*, *Cheraira* n.g., *Cochlembolus*, *Colonus* n.g., *Cornicularia*, *Corypheolana*, *Disembolus*, *Eperigone*, *Eularia*, *Grammonota*, *Hilaira*, *Lophomma*, *Maso*, *Masoncus* n.g., *Minyriolus*, *Montilaria*, *Oedothorax*, *Pselothorax* n.g., *Sciastes*, *Scironis*, *Scylaceus*, *Spirombolus*, *Tachygyna*, *Tapinocyba*, *Tigellinus*, *Tortembolus*, *Willibaldia*, *Wubana*, and *Zygottus* n.g.

37891 CHAMBERLIN, R. V. On some centipeds from northern Alaska. *Ent. News* [Philadelphia] 60: 12-15. Jan. 1949. 421 En88

Includes new species in *Escimobius* n. g. and *Arebius*.

37892 CHAMBERLIN, R. V. A third species in the chelodesmid genus *Semionellus* (Diplopoda). *Ent. News* [Philadelphia] 59: 258-259. Dec. 1948. 421 En88

37893 CLOUDSLEY-THOMPSON, J. L. Notes on Arachnida. 7-9. *Ent. Monthly Mag.* 85: 46-47. Feb. 1949. 421 En86

7. Arachnids and myriapods from Holme Fen, Hunts.  
8. *Scytodes thoracica* in Cambridge. 9. Do Solifugae mimic scorpions?



- 37894 CROSS, H. F., and SNYDER, F. M. Chigger control; washing and aging tests of a selected group of compounds effective as clothing treatments against chiggers. *Soap & Sanit. Chem.* 25(2): 135, 137, 139, 141, 143. Feb. 1949. 307.8 S012  
Acariscus masoni and Eutrombicula alfreddugèsi.
- 37895 CROSS, H. F., and SNYDER, F. M. Field tests of uniforms impregnated with mite toxicants. *J. Econ. Ent.* 41: 936-941. Ref. Dec. 1948. 421 J822  
I. Protection studies. II. Stopping-time studies. Tests made with chiggers (*Eutrombicula alfreddugèsi*?).
- 37896 CUNLIFFE, F. *Hirstiella pelaezi*, a new lizard parasite from Mexico (Acarina, Pterygosomidae). *Ent. Soc. Wash. Proc.* 51: 25-26. Feb. 1949. 420 W27
- 37897 DEAN, F. P., and NEWCOMER, E. J. Comparative efficiency of materials for controlling orchard mites [*Tetranychus pacificus*; *Paratetranychus pilosus*]. *Wash. State Hort. Assoc. Proc.* 44: 131-133. 1948. 81 W273
- 37898 DRESKO, E. Note sur *Dolomedes fimbriatus* Clerk en forêt de Fontainebleau (S-et-M.). *Entomologiste* 4: 148-153. May/Aug. 1948. 421 En814  
Commentaire par Pierre Bonnet, p. 153-154.
- 37899 FJELDDALEN, J. DDT - mites. (In Norwegian.) *Norsk Hagetidend* 65: 29-30. Feb. 1, 1949. 80 N81  
On fruit.
- 37900 FULLER, H. S. A new name for the genotype of *Walchia* Ewing (Acarina: Trombiculidae). *Wash. Biol. Soc. Proc.* 62: 1. Mar. 17, 1949. 500 W272  
*Trombidium ewingi* nomen novum.
- 37901 GAMBLES, R. M., and COGHILL, N. F. Relapsing fever in Cyprus. *Ann. Trop. Med. & Parasitol.* 42: 288-303. Ref. Dec. 1948. 448.9 L75A  
Believed transmitted by *Ornithodoros tholozani*.
- 37902 GAUD, J., and PETITOT, M. L. *Sarcoptes plumicoles* [Analgesidae] des oiseaux d'Indochine. *Ann. de Parasitol. Humaine et Compar.* 23: 337-347. 1948. 436.8 An7  
Includes new species in *Megnina* and *Pterodectes*.
- 37903 HOFFMAN, R. L. The identity of *Apheloria coriacea* (Diplopoda, Xystodesmidae). *Amer. Mus. Nat. Hist. Amer. Mus. Novitates* 1405, 6 p. Feb. 2, 1949. 500 N483N
- 37904 HOFFMANN, A. Dos especies nuevas de Trombiculidos mexicanos. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9: 177-189. Sept. 1948. 449.9 M572  
English summary.  
In *Ascoshöngastia* and *Acomatacarus*.
- 37905 IRIMINOIU, G. Á propos de quelques nouveaux parasites endoglobulaires trouvés en Roumanie. *Ann. de Parasitol. Humaine et Compar.* 23: 296-300. Ref. 1948. 436.8 An7  
*Anaplasmosis*, *theileriasis*, and *babesiosis* in sheep and cattle transmitted by *Dermacentor reticulatus*, *Haemaphysalis punctata*, *Melophagus ovinus*, and *Ixodes ricinus*.
- 37906 KEMPER, H. E., and ROBERTS, I. H. Benzene hexachloride dip to destroy scab mites [*Sarcoptes equi ovis*] on unborn [i.e. unshorn] sheep. *Vet. Med.* 44: 163-169. Apr. 1949. 41.8 M69
- 37907 KNOWLTON, G. F. Spider [*Xysticus cunctator*] feeds on honeybee. *Brooklyn Ent. Soc. B.* 44: 36. Feb. 1949. 420 B79
- 37908 LAURANS, R., and WILCZYNSKA, H. Le sulfure de polychlorocyclane en solution dans l'alcool terpenique dans la lutte contre la gale sarcoptique du chien. *Soc. de Path. Exot. B.* 41: 601-604. Oct. 13, 1948. 448.9 S013
- 37909 LAWRENCE, R. F. Studies on some parasitic mites from Canada and South Africa. *J. Parasitol.* 34: 364-379. Oct. 1948. 448.8 J824  
Includes new species in *Sternostoma* and *Prolabidocarpus* n. g. Also new genera *Olalidocarpus* and *Eulalidocarpus*.
- 37910 LEVI, H. W. Notes on the life history of the pseudoscorpion *Chelifer cancrroides* (Linn.) (Chelonethida). *Amer. Micros. Soc. Trans.* 67: 290-298. July 1948. 440.9 Am33
- 37911 LJONES, B. Fruit tree mite [*Paratetranychus pilosus*] and ladybird [*Coccinellidae*]. (In Norwegian.) *Norsk Hagetidend* 65: 28-29. Feb. 1, 1949. 80 N81
- 37912 MADSEN, H. F. *Pediculoides ventricosus*, a predatory mite attacking the bud moth [*Spilonota ocellana*]. *J. Econ. Ent.* 41: 984-985. Dec. 1948. 421 J822
- 37913 MALININA, M. S. Control of ticks in the cellars of granaries. (In Russian.) *Selek. i Semen.* 15(6): 69-71. June 1948. 61.9 Se5
- 37914 MARIKOVSKIĬ, P. I. Importance of poisonous spider, *Latrodectus tredecimguttatus*, in veterinary medicine. (In Russian.) *Veterinariia* 25(8): 41-43. Aug. 1948. 41.8 V6426  
Study of poisoning of sheep.
- 37915 MELVIN, R. Effect of dusts on the performance of tetraethyl pyrophosphate [in control of *Tetranychus bimaculatus*]. *J. Econ. Ent.* 41: 903-904. Dec. 1948. 421 J822
- 37916 MELVIN, R., and EARLE, H. H., JR. A new evaluation method for acaricides using the red spider mite [*Tetranychus bimaculatus*]. *J. Econ. Ent.* 41: 901-903. Dec. 1948. 421 J822
- 37917 METCALF, R. L. Acaricidal properties of organic compounds related to DDT. *J. Econ. Ent.* 41: 875-882. Ref. Dec. 1948. 421 J822  
Compounds tested against *Heliothrips haemorrhoidalis* and *Paratetranychus citri*.
- 37918 MICHELBACHER, A. E. The ecology of Symphyla. *Pan-Pacific Ent.* 25: 1-12. Ref. Jan. 1949. 421 P193
- 37919 MILNE, A. The ecology of the sheep tick, *Ixodes ricinus* L. host relationships of the tick. 1-2. *Parasitology* 39: 167-197. Ref. Feb. 1949. 448.8 P21  
1. Review of previous work in Britain, p. 167-172. 2. Observations on hill and moorland grazings in northern England, p. 173-197.
- 37920 NANOBASHVILI, V. I. Effect of hellebore root and rootstock decoction on the quality of sheep's wool. (In Russian.) *Veterinariia* 25(8): 39-40. Aug. 1948. 41.8 V6426  
In mange treatment.
- 37921 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Red mite (*Bryobia praetiosa*). *Agr. Gaz. N. S. Wales* 59: 649-651. Dec. 1, 1948. 23 N472
- 37922 PHILIPPE, J. Note sur les gales du singe. *Soc. de Path. Exot. B.* 41: 597-600. Oct. 13, 1948. 448.9 S013  
*Sarcoptes pitheci* n. sp.
- 37923 QURESHI, S. H. On the bionomics of the fowl tick, *Argas persicus*. *Cur. Sci.* 17: 366. Dec. 1948. 475 Sci23
- 37924 RANSMEIER, J. C. Tick paralysis in the eastern United States. A summary, with report of four new cases from Georgia. *J. Ped.* 34(3): 299-308. Ref. Mar. 1949. 448.8 J8291  
Cases due to *Dermacentor variabilis*.
- 37925 RODIONOVA, N. F. Treatment of skin mange, with powders, on sheep. (In Russian.) *Veterinariia* 25(10): 22-23. Oct. 1948. 41.8 V6426
- 37926 ROSS, W. A., and ARMSTRONG, T. Notes on some of the newer acaricides. *Sci. Agr.* 29: 81-85. Feb. 1949. 7 Sci2
- 37927 SACCO, P. S.O.S. for the beekeepers. (In Italian.) *Riv. di Zootec.* 21: 350-351. Nov. 1948. 49 R52  
*Acarapis woodi* and acarine disease of bees.
- 37928 SADUSK, J. F., JR. Scrub typhus. U. S. Dept. State. Internat. Organ. & Conf. Ser. I. Gen. 5(1): 450-456. 1948. 150 In822  
Includes vectors (*Trombicula* spp.) and animal reservoirs.
- 37929 SERGENT, E., PONS, L., and FERRÉ, V. De l'utilisation du D.D.T. contre les scorpions. *Inst. Pasteur d'Algérie, Arch.* 26: 397-401. 1948. 448.3 In7A
- 37930 STRANDTMANN, R. W., and MENZIES, G. C. A new species of mite, *Hypoaspis murinus*, frequently taken from *Rattus* spp. (*Laelaptidae*: *Hypoaspinae*). *Ent. Soc. Amer. Ann.* 41: 479-482. Dec. 1948. 420 En82
- 37931 SVIRIDOV, A. A., and SHABALIN, N. N. Pine-cresol-alkaline liniment for the treatment and prophylaxis of mange on cattle and on horses. (In Russian.) *Veterinariia* 25(10): 21-22. Oct. 1948. 41.8 V6426
- 37932 TEALE, E. W. Turret eyes; the daddy long-legs has eyes in a turret, but still he can't see very well. *Nat. Hist.* 58: 67. Feb. 1949. 500 N483J



37933 TRAVASSOS, J. Studies on rickettsial diseases in Brazil. U. S. Dept. State. Internat. Organ. & Conf. Ser. I. Gen. 5(1): 414-425. Ref. 1948. 150 In822  
Role of ticks in transmission.

37934 VACHON, M. Études sur les scorpions. III. Description des scorpions du Nord de l'Afrique. Inst. Pasteur d'Algérie, Arch. 26: 441-481. (Cont.) 1948. 448.3 In7A

Genera *Androctonus* and *Buthacus*.

37935 VICINI, L. Tests in the control of lettuce acarid [*Penthaleus naematopus*]. (In Italian.) Riv. della Ortoflorofruttic. Ital. 32: 124-126. July/Aug. 1948. 86 R22

37936 VIEGAS AURELIO, J. L. Argasidosis (garra-pata de las aves). Rev. Mens. Illus. B. A. P. 32(373): 25-26. Dec. 1948. 9 R326  
*Argas persicus*.

37937 WHITNALL, A. B. M., and others. Some observations on biological and chemical tests to determine the effectiveness of benzene hexachloride dip washes. (Abs.) So. African Sci. 2: 112-113. Dec. 1948. 475 So8  
B. Bradford, W. McHardy, G. B. Whitehead, and F. Meerholz, joint authors.

For control of *Boophilus annulatus decoloratus* and *Amblyomma hebraeum*.

#### COLEOPTERA

37938 ALLEN, A. A. *Oxytelus piceus* L. (Col., Staphylinidae) in the Isle of Wight and Kent. Ent. Monthly Mag. 85: 37. Feb. 1949. 421 En86

37939 ANDERSON, W. H. Larvae of some genera of Calendrinae (= Rhynchophorinae) and Stromboscerinae (Coleoptera: Curculionidae). Ent. Soc. Amer. Ann. 41: 413-437. Ref. Dec. 1948. 420 En82

37940 AUBROOK, E. W. *Amara familiaris* Duft. (Col., Carabidae) feeding in flower heads. Ent. Monthly Mag. 85: 44. Feb. 1949. 421 En86

37941 BALACHOWSKY, A. Sur la présence en France de Dryocoetes hectographus Reitter (Col. Scolytoidea). Rev. de Path. Veg. et d'Ent. Agr. de France 27: 167-172. Ref. July 1948. 464.9 Sol

37942 BALDWIN, H. I. Pales weevil [*Hylobius pales*] damage after fire and logging. N. H. Forestry and Recreation Dept. Caroline A. Fox Res. and Demon. Forest. Fox Forest Notes 37, 1 p. Dec. 1948. 99.9 N454F

37943 BALFOUR-BROWNE, F. The aquatic Coleoptera of Dorset, with special reference to the South Haven Peninsula. Ann. & Mag. Nat. Hist. (ser. 12) 1: 620-639. Ref. Sept. 1948. 410 An77

37944 BARBER, H. S. Postscript on the "odd beetle." Ent. Soc. Amer. Ann. 41: 478. Dec. 1948. 420 En82  
*Thylodrias contractus*.

37945 BECKER, G., and SCHULZE, B. Zur prüfung der vorbeugenden wirkung von holzschutzmitteln gegen insekten. Reichsinst. f. Forst- Holzwirtsch. Mitt. 6, 12 p. Ref. June 1948. 99.9 R273

English, French, and German summaries.

Tests with *Hylotrupes bajulus*.

37946 BECKLEY, V. A. Protection of grain against weevils. East African Agr. J. 14: 71-76. Oct. 1948. 24 Ea74

37947 BELYEA, R. M. Role of beetles in the dying of defoliated balsam fir. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 1. Nov./Dec. 1948. 423.92 C16F

37948 BERDÉN, S. Two beetles new to Sweden, found at Alnarp. (In Swedish.) Opuscula Ent. 13: 167. 1948. 421 Op7

German summary.

*Otiorhynchus porcatus*, *Terigona nigriceps*.

37949 BLAIR, K. G. Coleoptera and Diptera from an old nest of the green woodpecker. Ent. Monthly Mag. 85: 48. Feb. 1949. 421 En86

37950 BOBB, M. L. Insect problems in peach orchards. Va. Fruit 37(3): 33-34. Mar. 1949. 81 V81B  
*Conotrachelus nenuphar* and *Grapholitha molesta*.

37951 BONNEMAISON, L. La lutte chimique contre les taupins [Agriotes]. Pomme de Terre Franç. 12(113): 7-13. Jan. 1949. 75.8 P77

37952 BOSE, I. The association of non-homologous chromosomes in the spermatogenesis of the ladybird beetle, *Epilachna vigintioctopunctata* (Fab.). Zool. Soc. Bengal. Proc. 1: 131-139. Sept. 1948. 410.9 Z73

37953 BOSQ, J. M. Consideraciones sobre cambio de nomenclatura del género *Leptidea* Muls. (Col. Cerambycidae). (Abs.) Soc. Ent. Argentina Rev. 14: 161-162. Oct. 25, 1948. 420 Sol4

37954 BOSQ, J. M. Longicornios del Norte Argentino. (Abs.) Soc. Ent. Argentina Rev. 14: 170. Oct. 25, 1948. 420 Sol4

37955 BRANDT, H. Der rapsglanzkäfer [*Meligethes aeneus*] als bohnen-schädling. Anz. f. Schädling. 21: 58-59. July 1948. 421 An9

37956 THE BROCA [*Stephanoderes hampei*]-destroyer of coffee. Tea & Coffee Trade J. 96(3): 11, 22. Mar. 1949. 68.8 T22

37957 BUCKHURST, A. S. The Colorado beetle [*Leptinotarsa decemlineata*]. Amateur Gard. Ann. 1949: 42. 80 Am12

37958 CAIRASCHI, E. A. Résultats d'enquête et campagne de lutte contre les hannetons et vers dans l'est de la France. Acad. d'Agr. de France. Compt. Rend. 34: 1016-1017. Dec. 8/22, 1948. 14 P215Bc  
*Melolontha*.

37959 CANTONNET, F., and THÉODORIDÈS, J. Quelques Coléoptères récoltés aux environs d'Avignon en septembre 1945 et classés d'après leurs biotopes. Feuille des Nat. (n. s.) 2: 5-7. Jan. 1947. 410 F432

37960 CARHART, A. H. Mass murder in the spruce belt. Amer. Forests 55(3): 14-15, 41-42. Mar. 1949. 99.8 F762

*Dendroctonus engelmanni*.

37961 CHAMBERLIN, F. S., and TIPPINS, H. H. *Microtheca ochroloma*, an introduced pest of crucifers, found in Alabama. J. Econ. Ent. 41: 979-980. Dec. 1948. 421 J822

37962 CONNELL, W. A., and MACCREARY, D. Tests with organic insecticides for strawberry weevil [*Anthonomus signatus*] control in 1948. Peninsula Hort Soc. Trans. 62: 78-82. 1948. 81 P37

37963 CORDEAU, P. Le débruchage des légumes secs. Potasse 23: 9-10. Jan. 1949. 57.8 P84

37964 COUTURIER, A., and CAIRASCHI, E. A. Premiers résultats des essais de lutte contre les vers blancs [*Melolontha*] dans les Vosges en 1947-48. Acad. d'Agr. de France. Compt. Rend. 34: 1017-1019. Dec. 8/22, 1948. 14 P215Bc

37965 CRIBB, J. Some interesting captures of Coleoptera in Sussex. Ent. Monthly Mag. 85: 20. Jan. 1949. 421 En86

37966 DAUBERSCHMIDT, Borkenkäferbekämpfung durch vernebelung. Allg. Forstz. 3: 102-103. June 1, 1948. 99.8 AL52

37967 DIBB, J. R. Beetle ecology. 2. Coleopterists' B. 2: 79-80. Nov. 1948. 421 C674

37968 DIETRICH, H. The K. F. Chamberlain collection of Coleoptera. Coleopterists' B. 2: 89-92. Nov. 1948. 421 C674

37969 DILLON, L. S., and DILLON, E. S. Miscellaneous synonymy and new species among the Lamiinae (Cerambycidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1388, 13 p. Jan. 4, 1949. 500 N483N

New species in *Plagiohammus*, *Truncatoides*, *Oncideres*, and *Clavidesmus*.

37970 DORSSELAER, R. VAN. Contribution à la connaissance des Coléoptères aquatiques de Belgique. Soc. Ent. de Belg. B. & Ann. 84: 124-128. June 1948. 420 B41

37971 DOSSE, G. Beiträge zur bekämpfung des grossen kohltriebrüsslers (*Ceutorrhynchus napi* Gyll.) im kohlbau. Anz. f. Schädling. 21: 81-88. Sept. 1948. 421 An9

37972 EASTON, A. M. *Timarcha tenebricosa* F. (Col., Chrysomelidae) parasitized by *Perilitus falciger* Ruthe (Hym., Braconidae). Ent. Monthly Mag. 85: 30. Feb. 1949. 421 En86

37973 EDWARDS, J. G. Coleoptera or beetles east of the Great Plains. Ann Arbor, Edwards, 1949. 181 p. Ref. 427 Ed92

37974 ELMORE, J. C. The control of darkling ground beetles [*Blapstinus* spp., *Coniontis* spp., and *Ulus crassus*]. J. Econ. Ent. 41: 988. Dec. 1948. 421 J822

37975 EMMEL, L. Vergleichende untersuchungen der wirkung von DDT- und 666-staub auf den kornkäfer [*Sitophilus granarius*] und seine brut. Anz. f. Schädling. 21: 89-91. Sept. 1948. 421 An9



- 37976 FAGEL, F. Staphylinidae intéressants de Belgique. Soc. Ent. de Belg. B. & Ann. 84: 142-143. Aug. 31, 1948. 420 B41
- 37977 FAGEL, G. Staphylinidae nouveaux pour la faune belge. Soc. Ent. de Belg. B. & Ann. 84: 106, 107-108. June 1948. 420 B41  
Species in Atheta, Olophron, and Lithocharis.
- 37978 FATTIG, P. W. The Carabidae or ground beetles of Georgia. Emory U. Mus. B. 7, 62 p. Jan. 15, 1949. 500 Em6
- 37979 FATTIG, P. W. The Chrysomelidae or leaf beetles of Georgia. Emory U. Mus. B. 6, 47 p. Sept. 1, 1948. 500 Em6
- 37980 FENDER, K. M. Aphodius rectus Mots. in Oregon (Coleoptera, Scarabaeidae). Pan-Pacific Ent. 25: 32. Jan. 1949. 421 P193
- 37981 FENDER, K. M. Studies in the Cantharidae III (Coleoptera). Pan-Pacific Ent. 25: 29-32. Jan. 1949. 421 P193  
Podabrus.
- 37982 FERAT, A. Destruction des vers du taupin. Potasse 23: 28. Feb. 1949. 57.8 P84
- 37983 FLEMING, W. E. Chlordan for control of Japanese beetle [Popillia japonica] larvae. J. Econ. Ent. 41: 905-912. Dec. 1948. 421 J822
- 37984 FRANZ, E. Ein käfer als schädling im bergwerk. Natur u. Volk 78: 179-180. Dec. 1, 1948. 509 F856  
Dorcus parallelepipedus in wood.
- 37985 FRANZ, J. Neues zur bekämpfung des buchdruckers, Ips typographus L. Anz. f. Schädlingssk. 21: 2-8. Ref. Apr. 1948. 421 An9
- 37986 FRANZ, J. Über die erfolgskontrolle beim arbeiten mit begifteten fangbäumen gegen borkenkäfer. Allg. Forstz. 3: 113-114. June 15, 1948. 99.8 AL52
- 37987 FRASER, M. G. Acanthocinus aedilis L. (Col., Cerambycidae) imported into Liverpool, Lancs. Ent. Monthly Mag. 85: 18. Jan. 1949. 421 En86
- 37988 FRASER, M. G. A note on Sipalinus squalidus Klbe. (Col., Curculionidae). Ent. Monthly Mag. 85: 18. Jan. 1949. 421 En86
- 37989 GÄBLER, H. Beitrag zur ueberwinterung des buchdruckers Ips typographus L. Allg. Forstz. 3: 5-6. Jan. 1, 1948. 99.8 AL52
- 37990 GALOUX, A. Le controle des Scolytides. Groenendaal. Sta. de Rech. Commun. Ser. C 10, 12 p. Ref. 1948. 99.9 G89Cc  
Dutch summary.
- 37991 GAULT, A. Quelques réflexions a propos de l'invasion actuelle des bostryches. Agr. Prat. 112: 437-438. Dec. 1948. 14 J82  
Bark beetles (Ips typographus ?) on spruce in France.
- 37992 GIBSON, A. Weevils raise hob in the granery. Family Herald & Weekly Star 80(4): 6. Jan. 26, 1949. 7 F21
- 37993 GIORGIO, C. Second crop potatoes and control of the potato beetle, Leptinotarsa decemlineata. (In Italian.) Campagna 47: 345-346. Dec. 31, 1948. 16 C152
- 37994 GRAHAM, C. Control of the plum curculio [Conotrachelus nenuphar], the oriental fruit moth [Grapholitha molesta] and cat-facing on peaches. Peninsula Hort. Soc. Trans. 62: 73-77. 1948. 81 P37
- 37995 GRISON, P. Le doryphore [Leptinotarsa decemlineata] et le ricin. Pomme de Terre Franç. 12 (113): 20-22. Jan. 1949. 75.8 P77
- 37996 GRISON, P. Effets d'implantation de cerveaux chez le doryphore (Leptinotarsa decemlineata Say) en diapause.. Paris. Acad. des Sci. Compt. Rend. 228: 428-430. Jan. 31, 1949. 505 P21
- 37997 GUESSOUS, A. L'amandier amer constitue-t-il un porte-greffe résistant au capnode [Capnodis tenebrionis]? Terre Maroc. 21: 50-51. Feb. 1949. 24 T44
- 37998 GUESSOUS, A. Le capnode noir (Capnodis tenebrionis L.) et ses plantes hôtes. Terre Maroc. 21: 48-50. Feb. 1949. 24 T44
- 37999 GUIGNOT, F. Faune de France. 48. Coléoptères hydrocanthares. Paris, Lechevalier, 1947. 286 p. 411 F273
- 38000 GYÖRFI, J. Der riesenbastkäfer (Dendroctonus micans Kug.) im Komitate Zala. (In Hungarian.) Erdészeti Kisérletek 48: 32-44. Ref. 1948. 99.9 Er22  
German summary.
- 38001 HANF, M. Neue erkenntnisse zur bekämpfung des apfelblütenstechers [Anthonomus pomorum]. Anz. f. Schädlingssk. 21: 65-73. Aug. 1948. 421 An9
- 38002 HASE, A. Einfache verfahren zur gewinnung von eiern und junglarven des rüben-derbrüsslers [Cleonus punctiventris]. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 112-114. July/Aug. 1948. 464.9 N11
- 38003 HASE, A. Neue arbeiten und nachrichten über fichtenborkenkäfer [Ips typographus]. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 131-133. Ref. July/Aug. 1948. 464.9 N11
- 38004 HATCH, M. H., and TANASSE, C. The liberation of Hippodamia convergens in the Yakima Valley of Washington, 1943 to 1946. J. Econ. Ent. 41: 993. Dec. 1948. 421 J822
- 38005 HATCH, M. H. A systematic index to the keys and catalogues of Coleoptera published in L'Abeille vol. I, 1864 - XXXVI, 1938. Coleopterists' B. 2: 81-88. Nov. 1948. 421 C674
- 38006 HIERHOLZER, O. Die krummzahnigen tannenborkenkäfer [Ips curvidens]. Holz-Zentbl. 75: 13-14. (To be cont.) Jan. 11, 1949. 99.81 H742
- 38007 HOLZ, W. Freilandversuch mit neuen kontaktinsektiziden gegen rapsglanzkäfer [Meligethes aeneus] und kohlschotenrüssler [Ceutorhynchus assimilis] unter gleichzeitiger beobachtung des befalls durch die kohlgallmücke [Contarinia torquens]. Anz. f. Schädlingssk. 21: 23-24. May 1948. 421 An9
- 38008 HOUGH, W. S. Chlordan compared with parathion on plums [for control of Conotrachelus nenuphar]. J. Econ. Ent. 41: 983-984. Dec. 1948. 421 J822
- 38009 JANSSENS, E. A propos d'Haplocnemus pini Redt (Col. Melyridae). Soc. Ent. de Belg. B. & Ann. 84: 158-159. Aug. 31, 1948. 420 B41
- 38010 JANY, E. Zur phänologie des rüben-derbrüsslers, Bothynoderes (Cleonus) punctiventris. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 133. July/Aug. 1948. 464.9 N11
- 38011 JOLIVET, P. La conservation de la couleur chez les Cassididae (Col. Chrysomeloidea). Entomologiste 4: 140-143. May/Aug. 1948. 421 En814
- 38012 JOLY, R. Les bostryches. Rev. du Bois 4: 7-13. Jan. 1949. 99.82 R32  
Bark beetles (Ipidae). Discussion of Ips sexdentatus, I. typographus, Pityogenes chalcographus, Ips curvidens, Chryphalus piceae, etc.
- 38013 JONES, F. G. W. Wireworm [Limoniulus californicus ?]: its habits and control. Brit. Sugar Beet Rev. 17: 23-27. Sept. 1948. 66.8 B77
- 38014 KAPUR, A. P. On the Indian species of Rodolia Mulsant (Coleoptera-Coccinellidae). B. Ent. Res. 39: 531-538. Ref. Mar. 1949. 421 B87
- 38015 KEVAN, D. K. Ips sexdentatus Börn., I. typographus L., and I. laricis F. (Col., Scolytidae) in imported German logs at Rothiemurchus, Aviemore, Iverness-shire. Ent. Monthly Mag. 85: 30. Feb. 1949. 421 En86
- 38016 KEVAN, D. K. The sexual and other characters of British Nebrini, Notiophilini and Elaphrini, with special reference to the genus Notiophilus Dum. (Col., Carabidae, Carabinae). Ent. Monthly Mag. 85: 1-18. Ref. Jan. 1949. 421 En86
- 38017 KNOWLTON, G. F., and HOUCK, B. B. A nitidulid beetle [Carpophilus lugubris] infesting sweet corn. J. Econ. Ent. 41: 990-991. Dec. 1948. 421 J822
- 38018 LANDIN, B. O. Some observations on Harpalus (Pseudophonus) griseus Panz. (Col. Carab.) in Scania, 1948. (In Swedish.) Opuscula Ent. 13: 159-161. 1948. 421 Op7  
English summary.
- 38019 LANDRIEU, D., and PERRET, J. E. Le négriel de la luzerne. (Colaspidea atrum Ol.) à Marrakech. Rev. de Path. Veg. et d'Ent. Agr. de France 27: 173-183. July 1948. 464.9 Sol
- 38020 LANGFORD, G. S. Progress in combatting the European corn borer [Pyrausta nubilalis]. Peninsula Hort. Soc. Trans. 62: 114-117. 1948. 81 P37  
Includes discussion.
- 38021 LECLERCQ, J. Sur les besoins en stéroïdes des larves de Tenebrio molitor L. Biochim. et Biophys. Acta 2: 614-617. Ref. Dec. 1948. 381 B522  
Summary in English and German.



- 38022 LELEUP, N. Influence du froid sur le développement de *Velleius dilatatus* F. Soc. Ent. de Belg. B. & Ann. 84: 108. June 1948. 420 B41
- 38023 LELEUP, N. Notes sur la faune des Hautes-Fagnes en Belgique. XVI. Coleoptera Pythidae. Soc. Ent. de Belg. B. & Ann. 84: 157. Aug. 31, 1948. 420 B41
- 38024 LELEUP, N. Nouvelle capture de *Collartia belgica* Jeann., à Enghoul. Soc. Ent. de Belg. B. & Ann. 84: 108-109. June 1948. 420 B41
- 38025 LHÉRITIER, G. Notes biologiques sur quelques Coléoptères du Maroc. I-V. Feuille des Nat. (n. s.) 2: 39-40, 67-68. Apr., July/Aug. 1947. 410 F432
- 38026 LINSLEY, E. G. A hollyhock leaf miner [*Trachys pygmaea*] new to North America. J. Econ. Ent. 41: 990. Dec. 1948. 421 J822
- 38027 LLOYD, R. W. Coleoptera at Moccas Park, Herefordshire. Ent. Monthly Mag. 85: 22. Jan. 1949. 421 En86
- 38028 LOMAX, J., and PAPPAS, J. Sweet clover weevil [*Sitona cylindricollis*]. Nebr. Agr. Col. Ext. E. C. 1554, 3 p. Feb. 1949. 275.29 N272Ex
- 38029 LUSIGNANI. Doryphore of potato [*Leptinotarsa decemlineata*] and control measures. (In Italian.) Rinasita Agr. 3(15): 2. June 1, 1948. 281.8 R47
- 38030 MCKEOWN, K. C. Australian insects. XXIV. Coleoptera II—Cryptophagidae and Nitidulidae. Austral. Mus. Mag. 9: 302-305. Oct./Dec. 1948. 475 Au7
- 38031 MADEL, W. Zur kenntnis der biologie einiger Dermestes-arten. Anz. f. Schädlingssk. 21: 25-27. May 1948. 421 An9
- 38032 MADELIN, J. L'invasion des bostryches dans les forêts de l'est de la France. Rev. des Eaux et Forêts 87: 460-468. Dec. 1948. 99.8 R322  
Ips typographus and Ips curvidens.
- 38033 MARTÍNEZ, A. *Deltachilum cupreicollis* ssp. *viridiscens* n. (Abs.) Soc. Ent. Argentina Rev. 14: 171. Oct. 25, 1948. 420 So14  
Also new species in *Acylochilus*.
- 38034 MARTÍNEZ, A. Una nueva especie de Lucanidae (Col. Lamellicornia). *Scortizus affinis* sp. n. (Abs.) Soc. Ent. Argentina Rev. 14: 165. Oct. 25, 1948. 420 So14
- 38035 MARTÍNEZ, A. Una nueva especie de Ontherus del Perú. Una nueva especie de *Allidiostoma argentinum*. XII. (Coleop. Scarabaeidae). (Abs.) Soc. Ent. Argentina Rev. 14: 160. Oct. 25, 1948. 420 So14
- 38036 MIÈGE, E. La destruction des bruches de la lentille. Inform. Maroc. 404: 1, 4. Oct. 9, 1948. 281.8 In3  
*Bruchus signaticornis*.
- 38037 MONRÓS, F. Descripción de algunas especies nuevas de *Lamprosoma* (Col. Chrysomel.). (Abs.) Soc. Ent. Argentina Rev. 14: 168. Oct. 25, 1948. 420 So14
- 38038 MORENO, E. M. *Le Copturomimus perseae* Hustache, nouvelle espèce entomologique et parasite de l'avocatier colombien. Fruits d'Outre Mer 4: 10-15. (To be cont.) Jan. 1949. 80 F9492
- 38039 MUNRO, J. A. Fly versus weevil: new hope for sweet clover. South. Beekeeper 3(1): 6-7. Jan. 1949. 424.8 So83  
Biological control of *Sitona cylindricollis* with *Microtonus aethiops* and *Campogaster exigua*.
- 38040 NOVOPOL'SKAÏA, E. V. Characteristics of the wintering of *Rhynchites bacchus* in the orchards of Crimea. (In Russian.) Sad i Ogorod 1948(8): 34-35. Aug. 1948. 87 Sa1
- 38041 OCHS, G. Ein neuer *Orectochilus* aus Süd-Indien. (Col. Gyrinidae). Opuscula Ent. 13: 162. 1948. 421 Op7
- 38042 PALMQVIST, S. Some rare carabids at Hälsingborg. (In Swedish.) Opuscula Ent. 13: 169-170. 1948. 421 Op7  
English summary.  
*Dromius* spp., *Microlestes maurus*.
- 38043 PEKLO, J., and SATAVA, J. Fixation of free nitrogen by bark beetles. Nature [London] 163: 336-337. Feb. 26, 1949. 472 N21  
Tests on *Ips amitinus*, *I. typographus*, and *Pityogenes chalcographus*.
- 38044 PERRET, J. E. "Le bupreste" et les buprestes des rosacées fruitières. Fruits et Primeurs de l'Afrique du Nord, Éd. Maroc. 19: 41-42. Feb. 1949. 80 F9482  
*Capnodis tenebrionis* and *Chrysobothris affinis*.
- 38045 PERRET, J. E. Le capnode noir [*Capnodis tenebrionis*]. Terre Maroc. 21: 47-48. Feb. 1949. 24 T44
- 38046 PIC, M. Coléoptères du globe. Échange 65 (515): 1-4. (Cont.) Feb. 6, 1949. 420 Ec4  
Includes new species and forms in *Pseudopallenis*, *Pallenis*, *Stenocylidrus*, *Liostylus*, *Synellapus*, *Opilo*, *Enoplioides*, *Byrsax*, *Daiphon*, *Chauliognathus*, *Lycus*, *Coptocephala*, and *Eryxia*.
- 38047 QUEMERE, F. Travaux du laboratoire des taupins [Agriotes]. Pomme de Terre Franç. 12(114): 24-27. Feb. 1949. 75.8 P77
- 38048 RÉGNIER, R., and HURPIN, B. Résultats des recherches de 1948 sur le hanneton commun [*Melolontha melolontha*]. Acad. d'Agr. de France. Compt. Rend. 34: 1014-1016. Dec. 8/22, 1948. 14 P215Bc
- 38049 ROLLAND, L. Les dégâts des vers blancs [*Melolontha*] dans les Vosges. Importance économique. Acad. d'Agr. de France. Compt. Rend. 34: 1020-1021. Dec. 8/22, 1948. 14 P215Bc
- 38050 RUNGS, C., and SCHAEFER, L. Un nouvel ennemi [*Agrilus malicola*] du pommier cultivé au Maroc. Rev. de Path. Veg. et d'Ent. Agr. de France 27: 121-124. July 1948. 464.9 So1
- 38051 SANDERSON, M. W. Larval, pupal, and adult stages of North American *Physonota* (Chrysomelidae). Ent. Soc. Amer. Ann. 41: 468-477. Ref. Dec. 1948. 420 En82
- 38052 SCHEDL, K. E. Contribution to the morphology and taxonomy of the Scolytoidea. Ann. & Mag. Nat. Hist. (ser. 12) 1: 664-668. Sept. 1948. 410 An77  
Includes new species in *Lanurgus* n. g., *Dryocoetes*, and *Doliopygus*.
- 38053 SCHWERDTFEGER, F. Borkenkäfer-bekämpfung in fichtenwäldern. Hannover, Schaper, 1948. 38 p. 427 Sch92  
Chiefly *Ips typographus*; also *Ips amitinus* and *Pityogenes chalcographus*.
- 38054 SEIXAS, C. A. Errors and mistakes in the chemical control of the coffee berry borer [*Stephanoderes hampei*]. (In Portuguese.) Biológico 14: 225-241. Oct. 1948. 442.8 B529
- 38055 SEIXAS, C. A. The practice of chemical control of the coffee borer [*Stephanoderes hampei*]. (In Portuguese.) Colheitas e Mercados 4(7/8): 7-19. July/Aug. 1948. 255.3 Sa652
- 38056 SHREWSBURY, J. F. D., and BARSON, G. J. A note on the intestinal flora of *Melolontha vulgaris*. J. Path. and Bact. 60: 510. July 1948. 448.8 J82
- 38057 SITIG, O. Vom tannenpissodes. Allg. Forstz. 4: 9. Jan. 5, 1949. 99.8 AL52  
*Pissodes engelmanni*.
- 38058 SMALLMAN, B. N. Residual insecticides for the control of spider beetles [*Ptinus* spp.] in cereal warehouses. J. Econ. Ent. 41: 869-874. Ref. Dec. 1948. 421 J822
- 38059 STEARNS, L. A., HANLEY, J. F., and WARREN, J. C. Results with new insecticides for curculio [*Conotrachelus nenuphar*] control on peaches, Delaware, 1948. Peninsula Hort. Soc. Trans. 62: 59-67. 1948. 81 P37
- 38060 STRANEO, S. L. Sur quelques nouveaux *Pterostichini* d'Afrique (Coleoptera Carabidae). I-II. Soc. Ent. de Belg. B. & Ann. 84: 110-119, 147-156. June, Aug. 1948. 420 B41  
New species and forms in *Strigomerus*, *Strigomerodes*, *Caelostomus*, *Abacetus*, *Chlaeminus*, *Metaxenus*, *Celioschysis*, and *Basilweskyia* n. g.
- 38061 THÉODORIDÈS, J. Les Coléoptères parasites accidentels de l'homme. Ann. de Parasitol. Humaine et Compar. 23: 348-363. Ref. 1948. 436.8 An7  
English summary.
- 38062 THÉRON, J. Quelques variétés d'*Histerides* qui méritent d'être considérées (Coléoptères). Entomologiste 4: 121-127. May/Aug. 1948. 421 En814  
*Saprinus* spp., *Hypocaccus* spp., *Baeckmanniolus dimidiatus*.
- 38063 THIEM, H. Zur weiterentwicklung der praktischen maikäfer- und engerlingsbekämpfung. Anz. f. Schädlingssk. 21: 17-21, 51-55. May, July 1948. 421 An9  
*Melontha* sp.



38064 TOTTENHAM, C. E. *Philonthus sparsus* Lucas a distinct species and a new Central European species of *Philonthus* Curtis (Col., Staphylinidae). Ent. Monthly Mag 85: 42-43. Feb. 1949. 421 En86

38065 TROUVELOT, B., and GRISON, P. Caractères de l'évolution du doryphore [*Leptinotarsa decemlineata*] dans la région parisienne en 1948. Acad. d'Agr. de France. Compt. Rend. 34: 1004-1006. Dec. 8/22, 1948. 14 P215Bc

38066 UHMANN, E. Hispinæ aus dem Britischen Museum.—IV. Teil. Neue fundorte und ergänzende beschreibungen bekannte arten nebst 2 neuheiten. 117. beitrage zur kenntnis der Hispinæ (Coleopt., Chrysom.). Ann. & Mag. Nat. Hist. (ser. 12) 1: 668-682. Sept. 1948. 410 An77

38067 VAYSSIERE, P. Hannetons et vers blancs. Jard. de France (Ser. 7) 2: 264-267; 3: 4-8. Dec. 1948, Jan. 1949. 86 So13

Melolonthidae and their larvae.

38068 VOGT, G. B. Three new Cicindelidae from south Texas with collecting notes on other Cicindelidae (Coleoptera). Brooklyn Ent. Soc. B. 44: 1-9. Feb. 1949. 420 B79

New species and forms in Cicindela.

38069 VRIJDAGH, J. M. Some notes on the damage done to limba by *Lyctus brunneus*. So. African Timber Trades' J. 3(1): 6-7; (2): 11-13. Oct.-Nov. 1948. 99.8 So82

38070 WITTMER, W. 6. beitrage zur kenntnis der neotropischen Malacodermata. Soc. Ent. Argentina Rev. 14: 148-154. Oct. 25, 1948. 420 So14

Includes new species and forms in *Discodon*, *Silis*, *Parasilis*, *Cryptotarsus*, *Attalus*, and *Mauroniscus*.

38071 WITZGALL, L. Man soll das kind nicht mit dem bade ausschütten! Allg. Forstz. 4: 6-8. Jan. 5, 1949. 99.8 AL52

On the control of the spruce bark beetle (*Ips typographus*).

38072 WOLFENBARGER, D. O. *Heilipus squamosus* Lec., a new enemy of the avocado. Calif. Avocado Soc. Ybk. 33: 98-102. 1948. 81 C128

38073 WÖLFLE. Borkenkäferschäden innerhalb Bayerns seit dem jahre 1946. Allg. Forstz. 3: 259-261. Dec. 15, 1948. 99.8 AL52

## DIPTERA

38074 ALEXANDER, C. P. New or insufficiently-known crane-flies from the Nearctic Region (Diptera, Tipulidae). IX. Brooklyn Ent. Soc. B. 44: 15-20. Feb. 1949. 420 B79

New species in *Tipula* and *Pedicia*.

38075 ALEXANDER, C. P. New or little-known Tipulidae (Diptera). LXXXII. Oriental-Australasian species. Ann. & Mag. Nat. Hist. (ser. 12) 1: 639-663. Sept. 1948. 410 An77

Includes new species in *Ctenacrosceles*, *Tipula*, *Trichoneura*, *Limonia*, *Eupilaria*, *Hexatoma*, *Elephantomyia*, *Riedelomyia*, *Rhabdomastix*, and *Styringomyia*.

38076 ALLMAN, S. L., and FRIEND, A. H. New insecticides and fruit fly control. Agr. Gaz. N. S. Wales 59: 531-533. Oct. 1948. 23 N472

DDT for control of *Dacus tryoni* and *Ceratitis capitata*.

38077 ANDERSON, R. F. Relation of droplet size to toxicity in residual-type DDT-oil sprays. J. Econ. Ent. 41: 974-976. Dec. 1948. 421 J822

Tests with *Drosophila melanogaster*.

38078 ARMITAGE, H. M. The oriental fruit fly [*Dacus dorsalis*] in the Hawaiian Islands. Calif. Fruit News 119(3164): 4-5. Feb. 26, 1949. 80 C12

38079 BAILEY, N. S. The hovering and mating of Tabanidae: a review of the literature with some original observations. Ent. Soc. Amer. Ann. 41: 403-412. Ref. Dec. 1948. 420 En82

38080 BANGERTER, H. Neue Diptera Nematocera. Schweiz. Ent. Gesell. Mitt. 21: 185-192. July 10, 1948. 420 Sw6

New species in *Dicranomyia* and *Trichocera*.

38081 BATH, J. D., and SPONSLER, O. L. An alternative method for the culture of *Sciara* larvae. Science 109: 255. Mar. 11, 1949. 470 Sci2

38082 BEAUMONT, A. Contribution à l'étude du métabolisme de l'hémoglobine de *Gastrophilus intestinalis*. Soc. de Biol. Compt. Rend. 142: 1369-1371. Nov. 1948. 442.9 P21

38083 BERG, R. L. Interrelation of mutability and selection in natural populations of *Drosophila melanogaster*. (In Russian.) Zhur. Obshch. Biol. 9: 299-313. Ref. July/Aug. 1948. 442.8 Z6

38084 BETTINI, S., and BARACHINI, B. First results of the control with chlordane and benzene hexachloride of house flies (*Musca domestica*) resistant to DDT. (In Italian.) Ist. Super. di Sanit. Rend. 11: 841-848. 1948. 449.9 R66

French, English, and German summaries.

38085 BLATTNY, C. Effect of pests [*Contarinia medicaginis*] on the successful cultivation of alfalfa for seed. (In Czech.) Českoslov. Akad. Zemedél. Vest. 22: 536-538. Dec. 15, 1948. 19.5 C332

Russian and French summaries.

38086 BROMLEY, S. W. The Missouri bee-killer, *Proctacanthus milbertii* Macq. (Asilidae: Diptera). Brooklyn Ent. Soc. B. 44: 21-28. Feb. 1949. 420 B79

Includes list of prey.

38087 BROOKS, A. R. New North American larvae-vorine flies (Diptera, Larvaevoridae). Canad. Ent. 81: 21-24. Jan. 1949. 421 C16

New species in *Juriniopsis*, *Argentoepalpus*, *Archytas*, and *Peleteria*.

38088 BRUGGER, J. New observations on the fruit fly, *Anastrepha fraterculus* (Wied). (In Portuguese.) Rev. Agron. [Porto Alegre] 12: 117-126. July/Sept. 1948. 9.2 R325

38089 BURNETT, D., JR. Filth and the housefly [*Musca domestica*]. Pests 17(3): 25. Mar. 1949. 449.8 Ex8

Habits; disease transmission; control.

38090 COLLART, A. Hétéromorphose bilatérale chez un diptère. Soc. Ent. de Belg. B. & Ann. 84: 129-132. June 1948. 420 B41

Observations on *Lophosia fasciata*.

38091 COOK, E. F. The evolution of the head in the larvae of the Diptera. Stanford U. Abs. Diss. 23: 3-5. 1948. 241.8 St2

38092 COOPER, K. W. The cytogenetics of meiosis in *Drosophila*; mitotic and meiotic autosomal chiasmata without crossing over in the male. J. Morph. 84: 81-121. Ref. Jan. 1949. 444.8 J826

38093 D'ASSIS-FONSECA, E. C. M. *Dionaea aurifrons* Mg. (Dipt., Larvaevoridae) in North Devon. Ent. Monthly Mag. 85: 19-20. Jan. 1949. 421 En86

38094 DAVIES, D. M. Variation in taxonomic characters of some Simuliidae (Diptera). Canad. Ent. 81: 18-21. Jan. 1949. 421 C16

*Prosimulium hirtipes*, *Cnephia* spp., *Simulium* spp.

38095 DECKER, G. C. Hessian fly [*Phytophaga destructor*] conditions in Illinois for 1948. Ill. Agr. Col. Ext. NH236, 2 p. Sept. 3, 1948. 275.29 IL62Ph

38096 DUBININ, N. P. Experimental investigation of the integration of hereditary systems in the processes of evolution of populations. (In Russian.) Zhur. Obshch. Biol. 9: 203-244. Ref. May/June 1948. 442.8 Z6

*Drosophila melanogaster*.

38097 DUPUIS, C. Observations sur les Phasiinae cimicophages. Feuille des Nat. (n. s.) 2: 79-80. July/Aug. 1947. 410 F432

38098 DURAND-DELACRE, R. Quelques observations biologiques sur les phlébotomes [*Flebotomus*] de Beni Ounif-de-Figuig (Sahara Oranais). Inst. Pasteur d'Algérie, Arch. 26: 406-430. Ref. 1948. 448.3 In7A

38099 EDWARDS, J. Pairing of *Scopeuma* species (Diptera: Cordiluridae). Ent. Rec. & J. Variation 61: 19-20. Feb. 1949. 421 En89

38100 EHRLICH, C. Ohne dasselbeulen bessere häute, mehr fleisch, mehr milch. Landw. Wchnbl. f. Westfalen u. Lippe 106: 33-34. Jan. 15, 1949. 18 L2346

Hypoderma.

38101 FAIRCHILD, G. B., and HERTIG, M. Notes on the *Phlebotomus* [i.e. *Flebotomus*] of Panama (Diptera, Psychodidae). IV. *P. atroclavatus* Knab, *P. cayennensis* Floch and Abonnenc, *P. chiapanensis* Dampf and some related forms from the West Indies and Mexico. Ent. Soc. Amer. Ann. 41: 455-467. Dec. 1948. 420 En82

38102 FOX, I. Notes on Puerto Rican biting midges or *Culicoides* (Diptera: Ceratopogonidae). Brooklyn Ent. Soc. B. 44: 29-34. Feb. 1949. 420 B79



- 38103 GOFFE, E. R. The position of *Musca macrocephala* Harris, 1776, and of certain other names of Syrphidae [Syrphus sepulcralis; Scaeva arcuata] (Diptera) under Article 31 of the Rules. Ent. Monthly Mag. 85: 35-37. Feb. 1949. 421 En86
- 38104 GORDON, R. M., and CREWE, W. The mechanisms by which mosquitoes and tsetse-flies [Glossina] obtain their blood-meal, the histology of the lesions produced, and the subsequent reactions of the mammalian host; together with some observations on the feeding of Chrysops and Cimex. Ann. Trop. Med. & Parasitol. 42: 334-356. Ref. Dec. 1948. 448.9 L75A
- 38105 GORDON, R. M., CHWATT, L. J., and JONES, C. M. The results of a preliminary entomological survey of loiasis at Kumba, British Cameroons, together with a description of the breeding-places of the vector [Chrysops spp.] and suggestions for future research and possible methods of control. Ann. Trop. Med. & Parasitol. 42: 364-376. Dec. 1948. 448.9 L75A
- 38106 GRAHAM, M. W. R. DE V. Unusual abundance of Sepsidae (Dipt.). Ent. Monthly Mag. 85: 23. Jan. 1949. 421 En86  
England.
- 38107 GRENSTED, L. W. Medeterus jaculus Fall. (Dipt., Dolichopodidae) with prey. Ent. Monthly Mag. 85: 24. Jan. 1949. 421 En86  
Feeding on jassid nymphs.
- 38108 GUNDERSON, H. Needed—better fly control. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 3(8): 9-10. Feb. 1949. 275.28 I094
- 38109 HADDOW, A. J., and DICK, G. W. A. Catches of biting Diptera in Uganda, with anaesthetized monkeys as bait. Ann. Trop. Med. & Parasitol. 42: 271-277. Dec. 1948. 448.9 L75A  
*Aedes*, *Taeniorhynchus*, and *Chrysops* were most numerous in catch.
- 38110 HAGMANN, L. E., and others. Evening flight habits of a male tabanid [*Tabanus giganteus*]. Ent. News [Philadelphia] 59: 257-258. Dec. 1948. 421 En88  
G. W. Barber, E. B. Starnes, and O. Starnes, joint authors.
- 38111 HANSENS, E. J. Cattle grubs [*Hypoderma*]. N. J. Agr. Expt. Sta. B. 522, 4 p. Jan. 1949. 100 N46S
- 38112 HOCKING, B., TWINN, C. R., and MCDUFFIE, W. C. A preliminary evaluation of some insecticides against immature stages of blackflies (Diptera: Simuliidae). Sci. Agr. 29: 69-80. Feb. 1949. 7 Sci2
- 38113 HOOF, L. VAN, HENRARD, C., and PEEL, E. Quelques observations sur les trypanosomiasés des grands mammifères au Congo Belge. Acta Trop. 5: 327-344. 1948. 475 Ac8  
English and German summaries.  
Transmitted by *Glossina palpalis*.
- 38114 HUCKETT, H. C. The subgenus *Pycnoglossa* Coquillett in North America, genus *Hylemyia* sens. lat. (Muscidae, Diptera). N. Y. Ent. Soc. J. 57: 51-65. Mar. 1949. 420 N48J
- 38115 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The Illinois fly-free program; calendar of events. Ill. Agr. Col. Ext. NH243d, 2 p. Feb. 20, 1948. 275.29 IL62Ph
- 38116 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The Illinois fly-free program; suggested committee organization. Ill. Agr. Col. Ext. NH243c, 3 p. Feb. 20, 1948. 275.29 IL62Ph
- 38117 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The Illinois fly-free program; what needs to be done to control flies in Illinois. Ill. Agr. Col. Ext. NH243b, 1 p. Feb. 20, 1948. 275.29 IL62Ph
- 38118 ILSE, D. Colour discrimination in the drone fly, *Eristalis tenax*. Nature [London] 163: 255-256. Feb. 12, 1949. 472 N21
- 38119 JAMES, M. T. Some African and Brazilian Stratiomyidae (Diptera). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1386, 7 p. Jan. 3, 1949. 500 N483N  
Includes new species in *Hoplistes*, *Diplehippium*, and *Dolichodema*.
- 38120 JENKINS, C. F. H. The banana as a host fruit of the Mediterranean fruit fly [*Ceratitis capitata*]. West. Austral. Dept. Agr. J. 2 ser. 25: 263-264. Sept. 1948. 23 W52J
- 38121 JOBLING, B. Host-parasite relationship between the American Streblidae and the bats, with a new key to the American genera and a record of the Streblidae from Trinidad, British West Indies (Diptera). Parasitology 39: 315-329. Ref. Feb. 1949. 448.8 P21
- 38122 KIRK, R., and LEWIS, D. J. Taxonomy of the Ethiopian sandflies (Phlebotomus [i.e. Flebotomus]). III. New species and records: alterations and additions to the keys. Ann. Trop. Med. & Parasitol. 42: 322-333. Ref. Dec. 1948. 448.9 L75A
- 38123 KOENING, H. T. What you should know about fly control. Guernsey Breeders' J. 75: 697. Mar. 1, 1949. 43.8 G93  
Use of DDT for barn spraying.
- 38124 LAPINA, V. F. Effect of parasites on the dynamics of *Mayetiola destructor* population. (In Russian.) Zool. Zhur. 27: 329-334. Ref. July/Aug. 1948. 410 R92
- 38125 LAURENCE, B. R. Note on *Empis tessellata* F. (Dipt., Empididae). Ent. Monthly Mag. 85: 23. Jan. 1949. 421 En86
- 38126 LECLERCQ, M. *Crataerina pallida* Leach (Dipt. Hippoboscidae), parasite de l'homme. Soc. Ent. de Belg. B. & Ann. 84: 144-145. Aug. 31, 1948. 420 B41
- 38127 LEWIS, D. J. *Glossina tachinoides* in north-east Africa. B. Ent. Res. 39: 529-530. Ref. Mar. 1949. 421 B87  
Records from Ethiopia and the Anglo-Egyptian Sudan.
- 38128 LINDQUIST, A. W., and others. Blow fly control with DDT sprays dispersed from aircraft. J. Econ. Ent. 41: 971-973. Dec. 1948. 421 J822  
E. F. Knipling, H. A. Jones, and E. W. Laake, joint authors.
- 38129 MACARTHUR, K. The louse flies of Wisconsin and adjacent states (Diptera, Hippoboscidae). Milwaukee. Pub. Mus. B. 8: 367-440. Ref. Mar. 1948. 500 M64B
- 38130 MADDEN, A. H., and LINDQUIST, A. W. Improvement of nozzles for applying concentrated insecticides as fine-mist sprays. J. Econ. Ent. 41: 919-924. Dec. 1948. 421 J822  
Tested with *Musca domestica* and *Anopheles quadrimaculatus*.
- 38131 MAEHLER, K. L. The oriental fruit fly [*Dacus dorsalis*] in Guam. J. Econ. Ent. 41: 991-992. Dec. 1948. 421 J822
- 38132 MANDOUL, R., and JACQUEMIN, P. Une nouvelle pseudo-myiase intestinale. Soc. de Path. Exot. B. 41: 595-597. Oct. 13, 1948. 448.9 S013  
Larvae of *Ceratitis capitata* recovered from human fecal material.
- 38133 MELANDER, A. L. A report on some Miocene Diptera from Florissant, Colorado. Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1407, 63 p. Feb. 3, 1949. 500 N483N  
Includes the new genera: *Proapemon*, *Moyamyia*, and *Mecistoneuron*.
- 38134 MICKLE, G. T. Fly control in rural areas. Colo. Agr. Col. Ext. C. 154-A, 4 p. May 1948. 275.29 C71C
- 38135 MORRIS, K. R. S., and MORRIS, M. G. The use of traps against tsetse [*Glossina palpalis*, *G. tachinoides*] in West Africa. B. Ent. Res. 39: 491-528. Ref. Mar. 1949. 421 B87
- 38136 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Hover flies and ladybird beetles (Syrphidae and Coccinellidae). Agr. Gaz. N. S. Wales 59: 651-652. Dec. 1, 1948. 23 N472
- 38137 NIGGLI, H. Mutationsversuche mit chemikalien an *Drosophila melanogaster*. II. Wirkung von phenol bei behandlung von larvenovarien in vitro, sowie nach verfuetterung und eibehandlung. Genetica 24: 97-160. Ref. 1948. 442.8 G282
- 38138 NOURY, E. M. La cécidie de *Mayetiola radicifica* Rubsaamen (Dipt. Cécidomyiidae) ne se trouve-t-elle que sur *Poa nemoralis* L.? Feuille des Nat. (n.s.) 2: 97. Sept./Oct. 1947. 410 F432
- 38139 OBAJI, H. The olive fruit fly [*Dacus oleae*]. (In Arabic.) Syria. Ext. Serv. C. 29, 16 p. July 1948. 22.5 Sy8
- 38140 OLDROYD, H. A horsefly (Diptera: Tabanidae) from Mauritius, representing a new genus [*Tabanotelum*]. Ent. Monthly Mag. 85: 21-22. Jan. 1949. 421 En86



- 38141 OLENOV, I. M. Factors determining the number of harmful hereditary changes in natural populations. (In Russian.) Zhur. Obshch. Biol. 9: 327-340. Ref. July/Aug. 1948. 442.8 Z6  
Studies on *Drosophila melanogaster*.
- 38142 PAINTER, R. H., and JONES, E. T. Resistance of the Pawnee wheat variety to hessian fly [Phytophaga destructor] under Kansas conditions. J. Econ. Ent. 41: 882-886. Dec. 1948. 421 J822
- 38143 PALMER, R. G. Apple maggot [Rhagoletis pomonella] emergence in western New York. J. Econ. Ent. 41: 993. Dec. 1948. 421 J822
- 38144 PARMENTER, L. *Eristalis abusivus* Collin (=Tubifera lyra Harris) (Dipt., Syrphidae) visiting flowers of sea aster, *Aster tripolium* L. Ent. Monthly Mag. 85: 24. Jan. 1949. 421 En86
- 38145 PARMENTER, L. *Volucella zonaria* (Poda) (Dipt., Syrphidae), some 1948 records with a note on the comparison with *V. inanis* F. Ent. Monthly Mag. 85: 38. Feb. 1949. 421 En86
- 38146 PARROT, L., and DURAND-DELACRE, R. Notes sur les phlébotomes [Flebotomus spp.]. LX. Quelques remarques sur les phlébotomes des terriers de rongeurs du Sud Oranais. Inst. Pasteur d'Algérie, Arch. 26: 402-405. Ref. 1948. 448.3 In7A
- 38147 RINGDAHL, O. Dipterologische notizen. 4. Zwei neue Musciden. Opuscula Ent. 13: 100. 1948. 421 Op7  
In *Fannia* and *Spilogona*.
- 38148 RINGDAHL, O. Neue Musciden aus den österreichischen Alpen. Opuscula Ent. 13: 163. 1948. 421 Op7  
New species in *Limnophora* and *Hylemya*.
- 38149 RYDÉN, N. Information on Swedish leafminers IX. (In Swedish.) Opuscula Ent. 13: 115-118. 1948. 421 Op7  
German summary.
- 38150 SABIN, A. B. Recent advances in phlebotomus and dengue fevers. U. S. Dept. State. Internat. Organ. & Conf. Ser. I. Gen. 5(1): 520-525. 1948. 150 In822  
Vectors: *Flebotomus papatasi* and *Aedes aegypti*, respectively.
- 38151 SABROSKY, C. W. "Leptocera lutosus": a complex of Nearctic species (Diptera, Sphaeroceratidae). Ent. Soc. Wash. Proc. 51: 1-24. Feb. 1949. 420 W27
- 38152 SCHÖFFMANN, L. Enten als kulturhelfer. Kärntner Bauer 98: 352. Nov. 1, 1948. 19 K14  
Control of craneflies.
- 38153 SCHROEDER, H. O., JONES, H. A., and LINDQUIST, A. W. Certain compounds containing the methylenedioxyphenyl group as synergists for pyrethrum to control flies and mosquitoes. J. Econ. Ent. 41: 890-894. Dec. 1948. 421 J822  
Tests with *Musca domestica* and *Anopheles quadrimaculatus*.
- 38154 SHOUSA, SIR A. T. Cholera epidemic in Egypt (1947); a preliminary report. World Health Organ. B. 1: 353-381. 1948. 449.9 W892B  
Anti-fly campaign, p. 363-364.
- 38155 SILVESTRI, F. A small insect friend of olive growers. (In Italian.) Olearia 3(1): 5-12. Jan. 1949. 307.8 OL2  
Summaries in French and English.  
*Prolasioptera berleseana* destroys eggs of *Dacus oleae*.
- 38156 SIMMONDS, F. J. The natural control of the frit-fly, *Oscinella frit* (L.), in eastern North America. Cambridge. U. Abs. Diss. 1946/47: 14-15. 1948. 241.8 C14
- 38157 SMITH, C. L. Chlorinated hydrocarbon insecticides for control of the horn fly [*Siphona irritans*] on dairy cattle in Texas. J. Econ. Ent. 41: 981-982. Dec. 1948. 421 J822
- 38158 SMITH, H. R. Cattle grub [*Hypoderma*] eradication. Aberdeen-Angus J. 30(8): 51, 144, 146. Mar. 1949. 43.8 Ab3
- 38159 SMITH, H. R. Losses caused by cattle grubs [*Hypoderma*]. Shorthorn World 33(21): 15, 21. Feb. 10, 1949. 43.8 Sh8
- 38160 SMITH, H. R. Slaughter tests show heavy losses in load of grub [*Hypoderma*] infested steers. Kans. Stockman 33(5): 31. Mar. 1949. 49 K134
- 38161 SNYDER, F. M. New genera and species of Lispinæ (Diptera, Muscidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1403, 9 p. Feb. 1, 1949. 500 N483N  
New species in *Lispe* and *Lispacoenosia* n. g.
- 38162 SNYDER, F. M. Notes and descriptions of some Phaoniinae (Diptera, Muscidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1402, 25 p. Feb. 1, 1949. 500 N483N  
Includes new species in *Mydaea*, *Helina*, *Airalips* n. g., *Pseudoptilolepis* n. g., *Oramydaea* n. g., and *Dasymorelia*.
- 38163 SNYDER, F. M. Review of Nearctic *Mydaea*, sensu stricto, and *Xenomydaea* (Diptera, Muscidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1401, 38 p. Ref. Jan. 31, 1949. 500 N483N
- 38164 SNYDER, F. M. Revision of *Neomuscina* Townsend. Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1404, 39 p. Feb. 1, 1949. 500 N483N
- 38165 STEVENIN, A. Relaciones antagónicas entre un Asilidae y un Cicindelidae. (Abs.) Soc. Ent. Argentina Rev. 14: 165-166. Oct. 25, 1948. 420 So14
- 38166 STITT, L. L., and EIDE, P. M. New insecticides for cabbage maggot [*Hylemya brassicae*] control in western Washington. J. Econ. Ent. 41: 885-889. Dec. 1948. 421 J822
- 38167 TIBBETS, T., and SORENSON, C. J. Dipping gives better control of sheep ticks [*Melophagus ovinus*] than dusting. Farm & Home Sci. [Utah Sta.] 10: 14-16. Mar. 1949. 100 UtiF
- 38168 TIRELLI, M. New directions in olive fly control. (In Italian.) Terra e Sole 75/76: 777-778. Dec. 1948. 16 T273  
*Dacus oleae*.
- 38169 TJEDER, B. The Swedish *Prionocera* (Dipt. Tipulidae). Opuscula Ent. 13: 81-99. (Concl.) Ref. 1948. 421 Op7
- 38170 VAILLANT, F. Deux stations nouvelles d'*Haplothrax* et de *Blepharocera* dans les Alpes (Diptères). Entomologiste 4: 147-148. May/Aug. 1948. 421 En814
- 38171 YONKERS, A. Goodbye, flies, here comes DDT. Dairy Goat J. 27(4): 11-12. Apr. 1949. 40.18 M592

## Culicidae

- 38172 ABDEL-MALEK, A. The biology of *Aedes trivittatus*. J. Econ. Ent. 41: 951-954. Dec. 1948. 421 J822
- 38173 ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT. Seventeenth annual report, 1947. Oakland, 1948. 32 p. 428 AL1
- 38174 ANDREWS, J. M. Present proportions of the malaria problem in the Nearctic Region. U. S. Dept. State. Internat. Organ. & Conf. Ser. I. Gen. 5(1): 903-912. Ref. 1948. 150 In822  
*Anopheles quadrimaculatus* and *A. maculipennis* free-born chief vectors.
- 38175 ANTUNES, W. S. Field control in yellow fever. U. S. Dept. State. Internat. Organ. & Conf. Ser. I. Gen. 5(1): 498-505. Ref. 1948. 150 In822  
Control of *Aedes aegypti* in Brazil.
- 38176 AZIZ, M. The island-wide anopheline eradication scheme in Cyprus. U. S. Dept. State. Internat. Organ. & Conf. Ser. I. Gen. 5(1): 703-713. 1948. 150 In822
- 38177 BATES, M., and ZULUETA, J. DE. The seasonal cycle of anopheline mosquitoes in a pond in eastern Colombia. Amer. J. Trop. Med. 29: 129-150. Ref. Jan. 1949. 448.8 Am33
- 38178 BICK, G. H. Notes on mosquitoes from Leyte, Philippine Islands (Diptera, Culicidae). Nat. Hist. Misc. 41, 7 p. Mar. 12, 1949. 500 C43Na
- 38179 BLIVEN, B. Conquering the worst of all diseases [malaria]. New Repub. 120(11): 17-18. Mar. 14, 1949. 280.8 N42  
*Anopheles* control.
- 38180 BOTT, R. Stechmücken-eier. Natur u. Volk 78: 142-146. Dec. 1, 1948. 509 F856
- 38181 BROWN, E. S. Vorticellids (Protozoa: Ciliophora) epibiotic on larvae of the genus *Aedes* (Dipt., Culicidae). Ent. Monthly Mag. 85: 31-34. Feb. 1949. 421 En86



- 38182 BUSTOS CASTELLANOS, J., and others. A malaria reconnaissance of the state of Veracruz, Mexico. *Amer. J. Trop. Med.* 29: 23-35. Jan. 1949. 448.8 Am33
- L. Cerdán Murrieta, G. Lassman, and C. Ortiz, joint authors.
- Anopheles albimanus* principal vector. *A. pseudopunctipennis* and *A. quadrimaculatus* also important.
- 38183 BÜTTIKER, W. Beitrag zur kenntnis der biologie und verbreitung einiger stechmückenarten in der Schweiz. *Schweiz. Ent. Gesell. Mitt.* 21: 1-148. Ref. July 10, 1948. 420 Sw6
- Study on *Culex pipiens*, *Aedes vexans*, *A. geniculatus*, *Anopheles maculipennis*, and *A. bifurcatus*.
- 38184 CALLOT, J. Moustiques montagnards. *Ann. de Parasitol. Humaine et Compar.* 23: 399-400. 1948. 436.8 An7
- Notes on *Culex hortensis* and *Aedes pullatus*.
- 38185 CALLOT, J. Le paludisme en Alsace et en Moselle à propos d'une enquête récente. *Ann. de Parasitol. Humaine et Compar.* 23: 289-295. 1948. 436.8 An7
- Anopheles maculipennis* as vector.
- 38186 CALLOT, J., and VERMEIL, C. Pénétration des *Aedes* dans les maisons. *Ann. de Parasitol. Humaine et Compar.* 23: 334-336. 1948. 436.8 An7
- 38187 CAMBOURNAC, F. J. C., and FONSECA, A. E. DA. Experiments on control of anopheline larvae and malaria and rice-growing regions of Portugal. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 696-702. Ref. 1948. 150 In822
- 38188 CARTER, H. F. Records of filaria infections in mosquitoes in Ceylon. *Ann. Trop. Med. & Parasitol.* 42: 312-321. Dec. 1948. 448.9 L75A
- Principal vectors of *Wuchereria malayi* were *Taeniorhynchus* (Mansonioides) spp.; of *W. bancrofti*, *Culex fatigans*.
- 38189 CHOW, C. Y. The bionomics of two important malaria vectors in China. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 681-685. Ref. 1948. 150 In822
- Anopheles minimus*; *A. hyrcanus sinensis*.
- 38190 COMMEMORATION of demonstration by Walter Reed of mosquito transmission of yellow fever. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 39-54. 1948. 150 In822
- Includes: Remarks by Maj. Gen. R. W. Bliss; address by F. L. Soper; Walter Reed and the conquest of yellow fever: an illustrated address by P. S. Hench.
- 38191 COMMEMORATION of the fiftieth anniversary of the discovery by Ronald Ross of the method of transmission of malaria. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 54-75. 1948. 150 In822
- Includes: Speech by Prof. G. Macdonald; Introduction of Sir Malcolm Watson by P. F. Russell; Sir Ronald Ross: an oration by Sir M. Watson.
- 38192 COVELL, SIR G. Malaria problems in the Oriental and Australian Regions. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 932-939. 1948. 150 In822
- Distribution of anopheline vectors.
- 38193 DINGER, J. E. Studies in dengue fever. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 526-535. Ref. 1948. 150 In822
- Transmitted by *Aedes* spp.
- 38194 DOELEMEN, H., and THIEL, P. H. VAN. L'épidémie du paludisme à Middelbourg dans les années 1940 à 1946 y compris un examen de porteurs de parasites. *Soc. de Path. Exot. B.* 41: 580-584. Oct. 13, 1948. 448.9 So13
- Anopheles maculipennis atroparvus*.
- 38195 DOWNS, W. G., BORDAS, E., and ARIZMENDI, A. Colonización en el laboratorio, de *Anopheles aztecus* Hoffmann. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9: 175-176. Sept. 1948. 449.9 M572
- English summary.
- 38196 DOWNS, W. G., and BAKER, R. H. Experiments in crossing *Aedes* (*Stegomyia*) *aegypti* Linnaeus and *Aedes* (*Stegomyia*) *albopictus* Skuse. *Science* 109: 200-201. Feb. 25, 1949. 470 Sci2
- 38197 DY, F. J. The United States Public Health Service malaria-control program in the Philippines. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 802-808. 1948. 150 In822
- Includes survey of vectors (*Anopheles minimus flavirostris*, etc.).
- 38198 ENTE REGIONALE PER LA LOTTA ANTI-ANOFELICA IN SARDEGNA. Instructions for the chief imago-scout. Cagliari, 1948? 9 p. 428 En8Is
- 38199 ENTE REGIONALE PER LA LOTTA ANTI-ANOFELICA IN SARDEGNA. Instructions for the chief larva-scout. Cagliari, 1948? 5 p. 428 En8Ins
- 38200 ENTE REGIONALE PER LA LOTTA ANTI-ANOFELICA IN SARDEGNA. Instructions for the imago scout. Cagliari, 1948? 14 p. 428 En8Im
- 38201 ENTE REGIONALE PER LA LOTTA ANTI-ANOFELICA IN SARDEGNA. Instructions for the larva scout. Cagliari, 1948? 11 p. 428 En8IL
- 38202 ENTE REGIONALE PER LA LOTTA ANTI-ANOFELICA IN SARDEGNA. Istruzioni per il capo segnalatore alate [Instructions for the head mosquito demonstrator]. Sassari, Arcivescovile, 1948. 11 p. 428 En8Ic
- 38203 GABALDON, A. The malaria problem in the Neotropical Region. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 913-931. Ref. 1948. 150 In822
- Distribution of anopheline vectors.
- 38204 GAGE, A. Applicability of techniques of military malaria control to industrial developments and rural populations. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 841-849. Ref. 1948. 150 In822
- Use of DDT.
- 38205 GALVÃO, A. L. A. Active and passive dispersion of anopheline species. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 656-671. Ref. 1948. 150 In822
- 38206 GANAPATI, P. N., and TATE, P. On the gregarine *Lankesteria culicis* (Ross), 1898, from the mosquito *Aedes* (Finlaya) *geniculatus* (Olivier). *Parasitology* 30: 291-294. Ref. Feb. 1949. 448.8 P21
- 38207 GARNHAM, P. C. C. Acrodendrophilic mosquitoes of the Langata Forest, Kenya. *B. Ent. Res.* 39: 489-490. Mar. 1949. 421 B87
- Records on *Aedes* spp.
- 38208 GARNHAM, P. C. C. The incidence of malaria at high altitudes. *Natl. Malaria Soc. J.* 7: 275-284. Ref. Dec. 1948. 448.9 N213
- Anopheles* vectors spreading to higher levels in Kenya.
- 38209 GIGLIOLI, G. Immediate and long-term economic effects accruing from the control of mosquito-transmitted diseases in British Guiana. *Timehri* 28: 5-8. Dec. 1948. 9.6 Ti18
- 38210 GILLETTE, H. P. S. The control of bromeliad malaria in Trinidad, British West Indies. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 686-695. 1948. 150 In822
- Anopheles bellator* breeding in Bromeliaceae.
- 38211 GUILLAUME, A., and LECLERCQ, L. Sur la protection contre les piqures de moustiques en Alsace. *Acad. d'Agr. de France. Compt. Rend.* 34: 973-975. Dec. 8/22, 1948. 14 P215Bc
- 38212 HAMMON, W. M. Japanese B encephalitis. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 568-575. Ref. 1948. 150 In822
- Transmitted by species of *Culex*, *Aedes*, and *Culiseta*.
- 38213 JETTMAR, H. M. Autochthonous malaria in Austria. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 640-643. 1948. 150 In822
- Principal vectors: *Anopheles maculipennis* var. *messeae* and var. *typicus*.
- 38214 KIKER, C. C. Management of water to control anopheline mosquito breeding. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 865-872. 1948. 150 In822
- 38215 KING, W. V. Man-made malaria. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 860-864. 1948. 150 In822
- Anopheles* breeding in man-made pits, ditches, etc.
- 38216 KOMP, W. H. W. The anopheline vectors of malaria of the world. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5(1): 644-655. Ref. 1948. 150 In822
- 38217 LEESON, H. S. Anopheline larvae collected in Arabia. *Ann. Trop. Med. & Parasitol.* 42: 253-255. Dec. 1948. 448.9 L75A
- 38218 LEWIS, D. J. The extermination of *Anopheles gambiae* in the Wadi Halfa area. *Roy. Soc. Trop. Med. & Hyg. Trans.* 42: 393-402. Jan. 1949. 448.9 R813



- 38219 LIVADAS, G. A., and BELIOS, G. Postwar malaria control in Greece and its results on basis of epidemiological data. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 884-895. Ref. 1948. 150 In822  
Anopheles elutus, A. superpictus, and A. maculipennis chief vectors.
- 38220 MCCAULEY, R. H., JR., FAY, R. W., and SIMMONS, S. W. A comparison of the residual effectiveness of certain insecticides against Anopheles quadrimaculatus. Natl. Malaria Soc. J. 7: 294-299. Dec. 1948. 448.9 N213
- 38221 MALDONADO, J. F., and others. The incidence of filariasis bancrofti in government institutions for children in Puerto Rico. Puerto Rico J. Pub. Health & Trop. Med. 24: 121-134. Dec. 1948. 448.8 P83  
F. Hernández Morales, I. Fox, and C. J. Thillet, joint authors.  
Same in Spanish, p. 135-149.  
Culex quinquefasciatus chief vector of filaria, Wuchereria bancrofti.
- 38222 MASTERS, C. O. A study of the adult mosquito population of a northern Ohio woods. Ohio J. Sci. 49: 12-14. Jan. 1949. 410 Oh3
- 38223 NEGhme, A., GUTIÉRREZ, J., and ALBI, H. Control del anofelismo en las zonas maláricas chilenas. Ofic. Sanit. Panamer. B. 28: 157-158. Feb. 1949. 449.9 P192B  
English summary.
- 38224 PAMPANA, E. J. Malaria control by residual indoor spraying with dichloro-diphenyl-trichloroethane (DDT). Survey of methods for testing residual toxicity and of results. World Health Organ. B. 1: 253-296. Ref. 1948. 449.9 W892B
- 38225 PENIDO, H. M. Malaria in the Rio Doce Basin, Brazil. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 809-817. 1948. 150 In822  
Anopheles darlingi principal vector.
- 38226 PENN, G. H. The larva and pupa of Aedes (Aedimorphus) alboscuteallatus (Diptera, Culicidae). Nat. Hist. Misc. 40, 4 p. Mar. 10, 1949. 500 C43Na
- 38227 PURI, I. M. The distribution of anopheline mosquitoes in India, Pakistan, Ceylon and Burma: V. Additional records, 1936-47. Indian J. Malariol. 2(1/2): 67-107. Ref. Mar./June 1948. 448.8 In24
- 38228 QUARTERMAN, K. D. Some factors influencing the residual effectiveness of DDT and chlordane in anopheline mosquito control. Natl. Malaria Soc. J. 7: 300-306. Dec. 1948. 448.9 N213
- 38229 ROZEBOOM, L. E., and KOMP, W. H. W. Three new species of Culex (Diptera: Culicidae) from Colombia. J. Parasitol. 34: 396-406. Oct. 1948. 448.8 J824
- 38230 SCHWETZ, J. L'état actuel du problème paludéen au Congo Belge, resp. en Afrique Centrale. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 896-902. 1948. 150 In822  
Anopheles gambiae, A. funestus, A. nili, and A. moucheti are vectors.
- 38231 SENEVET, G. A propos de la nymphe d'Anopheles ininii. Inst. Pasteur d'Algérie, Arch. 26: 431-432. 1948. 448.3 In7A
- 38232 SENEVET, G. Au sujet de quelques nymphes de Nyssorhynchus. Inst. Pasteur d'Algérie, Arch. 26: 433-440. 1948. 448.3 In7A
- 38233 SENIOR WHITE, R. Malaria transmission in the light of modern evolutionary theory applied to malaria-carrying mosquitoes. Indian J. Malariol. 2(1/2): 13-33. Ref. Mar./June 1948. 448.8 In24
- 38234 SHORTT, H. E. The pre-erythrocytic cycle of Plasmodium cynomolgi. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 607-617. Ref. 1948. 150 In822  
Mosquito vector: Anopheles maculipennis atroparvus.
- 38235 SHOUSA, SIR A. T. Species-eradication. The eradication of Anopheles gambiae from Upper Egypt 1942-1945. World Health Organ. B. 1: 309-348. 1948. 449.9 W892B
- 38236 SIMMONS, J. S. The malaria control program of the United States Army during World War II. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 827-840. Ref. 1948. 150 In822
- 38237 SMITHBURN, K. C. Neurotropic viruses in Central Africa. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 576-586. Ref. 1948. 150 In822  
Notes on Bwamba fever, West Nile, Semliki Forest, Bunjamwera, and Mengo encephalomyelitis viruses, and their mosquito (Aedes, Taeniorhynchus) vectors.
- 38238 SOPER, F. L. Species sanitation as applied to the eradication of (A) an invading or (B) an indigenous species. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 850-859. 1948. 150 In822  
Mosquito control.
- 38239 SOUTHERN ENTOMOLOGICAL COMPANY. Tossit, "the capsulated larvacide" for mosquito control. West Palm Beach, Fla., 1948? 4 p. 428 So83T  
Contains DDT.
- 38240 STOKER, W. J., and KUIPERS, J. Malaria control in salt-water fishponds in Java. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 881-883. 1948. 150 In822  
Anopheles sundaicus chief vector.
- 38241 TAYLOR, D. J., MULRENNAN, J. A., and THURMAN, D. C. Duration of the effect of residual DDT spray on houses in Florida. J. Econ. Ent. 41: 982-983. Dec. 1948. 421 J822  
Control of Anopheles quadrimaculatus.
- 38242 TAYLOR, R. M., and THEILER, M. The epidemiology of yellow fever. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 506-519. Ref. 1948. 150 In822  
Transmission by Aedes and Haemagogus.
- 38243 TERZIAN, L. A., STAHLER, N., and WEATHERSBY, A. B. The action of antimalarial drugs in mosquitoes [Aedes aegypti, Anopheles quadrimaculatus] infected with Plasmodium gallinaceum. J. Infect. Dis. 84: 47-55. Jan./Feb. 1949. 448.8 J821
- 38244 TERZIAN, L. A., and WEATHERSBY, A. B. The action of antimalarial drugs in mosquitoes [Anopheles quadrimaculatus] infected with Plasmodium falciparum. Amer. J. Trop. Med. 29: 19-22. Jan. 1949. 448.8 Am33
- 38245 VISWANATHAN, D. K. Activities of the Bombay provincial malaria organization, 1942-47. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 873-880. 1948. 150 In822  
Anopheles fluviatilis chief vector.
- 38246 WILKINS, O. P., and BRELAND, O. P. Recovery of the mosquito, Culiseta inornata (Williston) from dry material (Diptera, Culicidae). Ent. Soc. Wash. Proc. 51: 27-28. Feb. 1949. 420 W27
- 38247 WILLIS, E. R. The olfactory responses of female mosquitoes: responses of Aedes aegypti (L.) and of Anopheles quadrimaculatus say to human odor and to carbon dioxide in an olfactometer. Ohio. State U. Abs. Doctoral Diss. (1946/47) 54: 395-403. 1948. 241.8 Oh3
- 38248 YOUNG, M. D. Adaptability of exotic malaria parasites to indigenous anophelines. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 672-680. Ref. 1948. 150 In822

## HEMIPTERA (HETEROPTERA AND HOMOPTERA)

- 38249 BEAMENT, J. W. L. The penetration of insect egg-shells. II. The properties and permeability of subchorial membranes during development of Rhodnius prolixus, Stål. B. Ent. Res. 39: 467-488. Ref. Mar. 1949. 421 B87
- 38250 BODE, F. Die San-José-schildlaus [Aspidiotus perniciosus] und deren bekämpfung in Burgenland. Burgenländ. Bauernbündler 2(2): 7-8. Jan. 25, 1949. 19 B91  
Also in Landwirtschaft 22(1/2): 22-23. 1949. 19 L235
- 38251 BONI, G. Notes on fruit culture. (In Italian.) Coltivatore e Gior. Vinic. Ital. 95: 21. Jan. 31, 1949. 16 C72  
Control of Aspidiotus perniciosus.
- 38252 BRANZANTI, E. C. Aspidiotus perniciosus. (In Italian.) Riv. di Fruttic. 11: 33-35. Jan. 1949. 80 R52
- 38253 BURLEY, R. H. New sorgo withstands chinch bugs [Blissus leucopterus]. South. Seedsman 12(3): 29. Mar. 1949. 61.8 So8
- 38254 CANDURA, G. S. Contro gli afidi [Aphid control]. Osserv. Fitopat. per la Venezia Tridentina. P. di Propag. 16, 4 p. 1948. 464.4 B71



- 38255 CANDURA, G. S. Contro la Sanjosé [Control of San José scale, *Aspidiotus perniciosus*]. Osserv. Fitopat. per la Venezia Tridentina. P. di Propag. 14, 4 p. 1948. 464.4 B71
- 38256 CANDURA, G. S. Winter control of Coccidae. (In Italian.) Italia Agr. 86: 43-57. Jan. 1949. 16 It1  
On fruit.
- 38257 CARAYON, J. Liste des Hémiptères Hétéroptères recueillis en Forêt de St-Germain (S.-et-O.) Feuille des Nat. (n. s.) 2: 117. Nov./Dec. 1947. 410 F432
- 38258 CARLO, J. A. DE. Consideraciones sobre el género *Abedus* (Hemipt., Belostomidae); descripción de especies nuevas de material. (Abs.) Soc. Ent. Argentina Rev. 14: 162. Oct. 25, 1948. 420 So14
- 38259 CARLO, J. A. DE. Nepidae (Hem.); reseña histórica; géneros americanos; especies de Sudamérica. (Abs.) Soc. Ent. Argentina Rev. 14: 165. Oct. 25, 1948. 420 So14
- 38260 CARLSON, F. W., and NEWCOMER, E. J. Habits and control of the pear psylla [*Psylla pyricola*] in Washington. Wash. State Hort. Assoc. Proc. 44: 139-141 1948. 81 W273
- 38261 CHAGNON, G., and FOURNIER, O. Contribution à l'étude des Hémiptères aquatiques du Québec. Montreal. U. Inst. de Biol. Gén. et de Zool. Contrib. 21, 66 p. 1948. 410.9 M764  
English summary.
- 38262 CHU, H. F. Studies on the cotton aphid, *Aphis gossypii* Glover, (Homoptera: Aphididae). I-II. (In Chinese.) Chin. J. Cotton 1(2): 47-61. Ref. Nov. 11, 1948. 72.8 C444  
English summary.
- 38263 DAS, G. M., MUKHERJEE, T. D., and SEN GUPTA, N. Biology of the common mealy bug, *Ferrisia virgata* Ckll., (Coccidae), a pest on jute, *Corchorus olitorius* L., in Bengal. Zool. Soc. Bengal. Proc. 1: 109-115. Sept. 1948. 410.9 Z73
- 38264 DEBACH, P. Biological control. Report is made on field observations of citricola scale [*Coccus pseudomagnoliarum*] parasites during 1948. Citrus Leaves 29(2): 10. Feb. 1949. 80 C492
- 38265 DEBACH, P., FLESCNER, C. A., and DIETRICK, E. J. California red scale [*Aonidiella aurantii*]; studies in possible control by employment of natural enemies. Calif. Agr. [Calif. Sta.] 3(3): 12, 14. Mar. 1949. 100 C12Cag
- 38266 DEBACH, P. Citricola scale [*Coccus pseudomagnoliarum*] enemies; balance of scale and parasite required. Calif. Agr. [Calif. Sta.] 3(3): 7. Mar. 1949. 100 C12Cag
- 38267 DEBACH, P. The establishment of the Chinese race of *Comperiella bifasciata* on *Aonidiella aurantii* in Southern California. J. Econ. Ent. 41: 985. Dec. 1948. 421 J822
- 38268 DEBACH, P. Population studies of the long-tailed mealybug [*Pseudococcus adonidum*] and its natural enemies on citrus trees in southern California, 1946. Ecology 30: 14-25. Jan. 1949. 410 Ec7
- 38269 DOUTT, R. L., and HAGEN, K. S. Baker mealybug [*Pseudococcus maritimus*]; use of green lacewing [*Chrysopa californica*] in control studied. Calif. Agr. [Calif. Sta.] 3(3): 7. Mar. 1949. 100 C12Cag
- 38270 DUPUIS, C. Caractères sexuels des larves et nymphes des Hémiptères Hétéroptères. Feuille des Nat. (n. s.) 2: 33-37. Ref. Apr. 1947. 410 F432
- 38271 DUPUIS, C. Données sur la morphologie des glandes dorso-abdominales des Hémiptères-Hétéroptères: historique et discussion. Feuille des Nat. (n. s.) 2: 12-21. Ref. Feb./Mar. 1947. 410 F432
- 38272 DUPUIS, C. Nouvelles données sur les glandes dorso-abdominales des Hémiptères Hétéroptères. Feuille des Nat. (n. s.) 2: 49-52. Ref. May/June 1947. 410 F432
- 38273 DUPUIS, C. Les proies des Sphérides chasseurs d'Hétéroptères. Feuille des Nat. (n. s.) 2: 111-113. Ref. Nov./Dec. 1947. 410 F432
- 38274 EARLEY, D. The fleahopper [*Psallus seriatus*] in the insect rogues' gallery. Tex. Farming & Citric. 25(9): 21. Mar. 1949. 80 T31
- 38275 EGBERT, A. A new *Tenagobia* from Peru (Hemiptera, Corixidae). Kans. Ent. Soc. J. 22: 35-36. Jan. 1949. 420 K13
- 38276 EMERY, W. T. Effect of other insects on yields and quality. (Abs.) Amer. Assoc. Econ. Ent. North Cent. States Br. Proc. 3: 92-93. 1948. 423.9 Am32  
Macrosiphum pisi on alfalfa.
- 38277 ESSIG, E. O. Aphids [*Aphis citricidus* and *Toxoptera aurantii*] in relation to quick decline and tristeza of citrus. Pan-Pacific Ent. 25: 13-23. Jan. 1949. 421 P193
- 38278 FENNAH, R. G. New genera and species of Neotropical Cercopoidea (Homoptera). Ann. & Mag. Nat. Hist. (ser. 12) 1: 605-620. Sept. 1948. 410 An77  
New genera: *Prosapia*, *Deois*, *Aeneolamia*, *Phytozamia*, *Delassor*, *Vorago*, and *Zulia*.
- 38279 FLACHS, K. Das vordringen der San José-schildlaus in Europa und massnahmen zur ihrer bekämpfung. Anz. f. Schädlingsk. 21: 9-11. Apr. 1948. 421 An9
- 38280 FLANDERS, S. E. Biological pest control; utilization of black scale [*Saissetia oleae*] as a foster host in citrus orchards. Citrus Leaves 29(3): 10-11. Mar. 1949. 80 C492
- 38281 FLANDERS, S. E. Using black scale [*Saissetia oleae*] as a "foster host" for *Metaphycos helvolus*. Calif. Citrog. 34: 222-224. Mar. 1949. 80 C125
- 38282 FLUKE, C. L. Oyster shell scale [*Lepidosaphes ulmi*] control. Wis. Hort. 39: 169. Mar. 1949. 80 W752
- 38283 FRAY, M. La lutte contre le pou de San-José [*Aspidiotus perniciosus*]. Arbres et Fruits 35: 3-7. Jan. 1949. 80 Ar1
- 38284 GARMAN, P. New insect [*Orientus ishidae*] causes apple damage. Frontiers Plant Sci. 1: 6. Nov. 1948. 100 F92
- 38285 GASOW, H. Meisen als vertilger von schildläusen. Obst- u. Gartenbau 3: 74. Dec. 1, 1948. 80 Ob72
- 38286 GRANBERG, I. Attack of woolly apple aphid [*Eriosoma lanigerum*] on fruit trees in Blekinge. (In Swedish.) Sveriges Pomol. För. Fruktdlaren 1949: 22-23. 86 Sv2F
- 38287 GRIFFITHS, J. T., JR., and THOMPSON, W. L. Forecast on scale and grasshopper infestations for 1949. Citrus Indus. 30(3): 3. Mar. 1949. 80 C49
- 38288 HEIDMANN, R. Die San-José-schildlaus [*Aspidiotus perniciosus*] - eine gefahr im obstbau. Ceres [Hamburg] 1948(10): 9-10. Oct. 1948. 80 C332
- 38289 HEINZE, K. Die überwinterung der grünen pflirschblattlaus *Myzodes* [i. e. *Myzus*] *persicae* (Sulz.) und die auswirkung der überwinterungsquellen auf den massenwechsel im sommer. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 105-112. (To be cont.) July/Aug. 1948. 464.9 N11
- 38290 JANIN, M. La lutte contre la cochenille. Bourguignon Vitic. 51: 4. Feb. 1949. 95.8 B66
- 38291 JONSON, D. B. Aphis. Golden Gard. 13: 106, 112. Mar. 1949. 80 G56
- 38292 JÖRG, M. E. *Panstrongylus patersoni* n. sp. de Triatominae argentino. (Abs.) Soc. Ent. Argentina Rev. 14: 159-160. Oct. 25, 1948. 420 So14
- 38293 KITZMILLER, J. B. The use of dioxane in insect microtechnique. Amer. Micros. Soc. Trans. 67: 227-230. July 1948. 440.9 Am33  
Study of *Macrosiphum sanborni*.
- 38294 KLEIN, H. Z., and GIVEOLI, J. Experiments in controlling the Parlatoria scale of apple trees. (In Hebrew.) Hassadeh 29: 101-104. Dec. 1948. 26 H27
- 38295 KNOWLTON, G. F. Aphids on Umbelliferae. Kans. Ent. Soc. J. 22: 39-40. Jan. 1949. 420 K13
- 38296 KNOWLTON, G. F. Predacious Hemiptera feeding observations. Kans. Ent. Soc. J. 22: 37-39. Jan. 1949. 420 K13
- 38297 KORMILEV, N. A. Una especie nueva de la familia Elasmodeimidae Leth. & Sev. (1896) de la Republica Argentina (Hemiptera-Heteroptera, Reduviidae). Soc. Ent. Argentina Rev. 14: 141-147. Ref. Oct. 25, 1948. 420 So14  
*Elasmodeima bosqi*.
- 38298 KRIECHBAUM. Mit flammenwerfern gegen die San José-schildlaus [*Aspidiotus perniciosus*]. Gart.-Z. Illus. Flora 72: 10. Jan. 1949. 80 G1991



- 38299 KUITERT, L. C. Some new *Ranatra* from the Americas. *Kans. Ent. Soc. J.* 22: 24-34. Jan. 1949. 420 K13
- 38300 LA RIVERS, I. A new species of *Ambrysus* [*A. funebris*] from Death Valley, with notes on the genus in the United States (Hemiptera: Naucoridae). *South. Calif. Acad. Sci. B.* 47: 103-110. Ref. Sept./Dec. 1948. 500 So8
- 38301 LAUDERMILK, J. The bug with a crimson past. *Nat. Hist.* 58: 114-118. Mar. 1949. 500 N483J
- Cochineal insects: *Dactylopius coccus*, *D. tomentosus*, *D. confusus*.
- 38302 LEIBOFF, R. O. Aparición de un parásito [*Eupachyneuron*] poco frecuente del pulgón verde [*Schizaphis graminum*] de los cereales en la pampa central. *Rev. Argentina de Agron.* 15: 256-257. Dec. 1948. 9 R327
- 38303 LEVER, R. D. Reduviid bug [*Cosmolestes picticeps*] on a Malayan bird. *Ent. Monthly Mag.* 85: 41. Feb. 1949. 421 En86
- 38304 LEWIS, D. J. The distribution of Cimicidae (Hemiptera) in the Anglo-Egyptian Sudan. *Parasitology* 39: 295-299. Ref. Feb. 1949. 448.8 P21
- 38305 LINDGREN, D. L. Control of citrus scale. *South. Calif. Rancher* 14: 14. Jan. 1949. 6 So831
- Aonidiella aurantii*.
- 38306 LÜSCHER, M. The regeneration of legs in *Rhodnius prolixus* (Hemiptera). *J. Expt. Biol.* 25: 334-343. Ref. Dec. 1948. 442.8 B77
- 38307 LYNEN, G. R. La cantidad de liquido empleada por árbol influye en el resultado de las pulverizaciones. *Rev. Mens. Illus. B. A. P.* 32(373): 53. Dec. 1948. 9 R326
- Control of red scale (*Aonidiella aurantii*?) on orange.
- 38308 MCCONNELL, H. S. A new North American species of *Pulvinaria* (Homoptera, Coccidae). *Ent. Soc. Wash. Proc.* 51: 29-34. Feb. 1949. 420 W27
- P. ericicola* on *Rhododendron*.
- 38309 MACCREARY, D., and RICE, P. L. Parasitism of the Comstock mealybug [*Pseudococcus comstocki*] in Delaware. *Peninsula Hort. Soc. Trans.* 62: 121-127. 1948. 81 P37
- 38310 MASSE, A. M. *Bathysolen nubilus* L. (Hem., Coreidae) and other Hemiptera noted at Darenth, Kent. *Ent. Monthly Mag.* 85: 23. Jan. 1949. 421 En86
- 38311 MILLER, N. C. E. A new genus [*Phibalocoris*] of *Lygaeidae* (Rhynchota) from Borneo. *Ann. & Mag. Nat. Hist. (ser. 12)* 1: 683-684. Sept. 1948. 410 An77
- 38312 MÜNSTER, J. Recherches sur les pucerons de la pomme de terre. La fréquence en Suisse romande des pucerons vecteurs de maladies à virus. *Schweiz. Ent. Gesell. Mitt.* 21: 159-179. Ref. July 10, 1948. 420 Sw6
- Species recorded include: *Myzus persicae*, *Doralis rhamni*, *Macrosiphum gel*, *Rhopalosiphoninus latysiphon*.
- 38313 NEGI, P. S. Improved methods of lac cultivation. *Indian Lac Res. Inst. B.* 76, 10 p. 1948. 423.92 In22B
- Growing *Laccifer lacca* on various trees.
- 38314 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. D.D.T. is deadly to capsid bugs. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 299-301. Feb. 1949. 256.13 Ag82M
- Miridae*.
- 38315 NYSTERAKIS, F. Influence des substances sécrétées par un aphide [*Anuraphis helichrysi*] sur le fonctionnement des assises génératrices du prunier. *Soc. de Biol. Compt. Rend.* 142: 1212-1214. Oct. 1948. 442.9 P21
- 38316 OMAN, P. W. A leafhopper [*Typhlocyba prunicola*] injurious to cultivated prune in the western United States. *J. Econ. Ent.* 41: 983. Dec. 1948. 421 J822
- 38317 O'NEAL, E. J., and FLUKE, C. L. Tests with DDT against active nymphs of oyster shell scale [*Lepidosaphes ulmi*, on apple]. *J. Econ. Ent.* 41: 978-979. Dec. 1948. 421 J822
- 38318 PARKS, T. H. The periodical cicada [*Magicala septendecim*]. *Ohio. Agr. Col. Ext. B.* 292, 4 p. Feb. 1948. 275.29 Oh32
- 38319 PARNELL, F. R., KING, H. E., and RUSTON, D. F. Jassid [*Empoasca* spp.] resistance and hairiness of the cotton plant. *B. Ent. Res.* 39: 539-575. Ref. Mar. 1949. 421 B87
- 38320 PEGAZZANO, F. San José scale (Comstockaspis perniciosus [i. e. *Aspidiotus perniciosus*]). (In Italian) *Citrus [Messina]* 20(4/6): 12-13. Apr./June 1948. 286.83 M56
- 38321 PÉNEAU, J. Contribution à la faune des Hémiptères de France. I-III. *Entomologiste* 4: 127-134. May/Aug. 1948. 421 En814
- I. Présence en France d'*Eurygaster schreberi* Montandon, p. 127. II. Sur quelques autres espèces du genre *Eurygaster*, p. 128-133. III. Quelques localités d'Hémiptères peu communs, p. 133-134.
- 38322 PERENNEC, G. La lutte contre les pucerons au syndicat de l'Aven. *Pomme de Terre Franç.* 12(113): 23-25. Jan. 1949. 75.8 P77
- 38323 PIRÁN, A. A. Contribución al conocimiento de la dispersión geográfica de los Hemipteros neotropicales. (Abs.) *Soc. Ent. Argentina Rev.* 14: 163. Oct. 25, 1948. 420 So14
- 38324 POOS, F. W., and WHEELER, N. H. Some additional host plants of three species of leafhoppers of the genus *Empoasca* (Homoptera, Cicadellidae). *Ent. Soc. Wash. Proc.* 51: 35-38. Feb. 1949. 420 W27
- E. batatae*, *E. fabae*, *E. radiata*.
- 38325 POSNETTE, A. F., and STRICKLAND, A. H. Parasitism of the mealybug vectors of swollen-shoot of cacao. *Nature [London]* 163: 105-106. Jan. 15, 1949. 472 N21
- Pseudococcus njalensis* attacked by *Anagyrus* spp., etc.
- 38326 RAPP, J. L. C. The chloride ion in the hemolymph of the large milkweed bug, *Oncopeltus fasciatus* (Dallas). *Urbana, 1948.* 5 p. 431 R18
- Abstract of thesis - Univ. of Illinois.
- 38327 RENNERT, F. Kampf gegen die San José-schildlaus [*Aspidiotus perniciosus*]. *Landwirtschaft* 1948: 324. Nov. 25, 1948. 19 L235
- 38328 RICHARDSON, H. H. Present status of the citrus blackfly [*Aleurocanthus woglumi*] and its parasite *Eretmocerus serius* at Nassau, Bahamas. *J. Econ. Ent.* 41: 980. Dec. 1948. 421 J822
- 38329 RYAN, H. J. Olive scale on avocados. *Calif. Avocado Soc. Ybk.* 33: 96-98. 1948. 81 C128
- Parlatoria oleae*.
- 38330 SALZMANN, R. Ueber das vorkommen virusübertragender blattläuse auf kartoffeln im sommer 1948. *Grüne* 77: 56-61. Jan. 21, 1949. 17 Sch9
- 38331 SMITH, H. S., and FLANDERS, S. E. Continue red scale parasite search. *Citrus Leaves* 28(11): 12, 18, 34-35. Ref. Nov. 1948. 80 C492
- New hope for biological control of *Aonidiella aurantii* seen in species of *Casca* from China.
- 38332 SOUTHWOOD, T. R. E. Some notes on the early stages and biology of *Sehirus bicolor* L. (Hem., Cydnidae). *Ent. Monthly Mag.* 85: 39-41. Ref. Feb. 1949. 421 En86
- 38333 STAFFORD, E. M., and BARNES, D. F. Biology of the fig scale [*Lepidosaphes ficus*] in California. *Hilgardia* 18: 567-598. Ref. Nov. 1948. 100 C12H
- 38334 SUNESON, C. A., and BAILEY, S. F. Aphid [*Rhopalosiphum prunifoliae*] injury to wheat. *J. Econ. Ent.* 41: 994. Dec. 1948. 421 J822
- 38335 TISSOT, A. N. Methods in pea aphid [*Macrosiphum pisi*] control. *Fla. Grower* 57(3): 18, 32. Mar. 1949. 80 F6622
- 38336 TORRES, B. A. A. Sobre el valor sistemático de las espigas del fémur del primer par de patas, en el género *Carineta* Amy. y Serv. B. Sobre seis nuevas especies del género *Carineta*. (Abs.) *Soc. Ent. Argentina Rev.* 14: 168. Oct. 25, 1948. 420 So14
- 38337 TRUXAL, F. S. A study of the genus *Martarega* (Hemiptera, Notonectidae). *Kans. Ent. Soc. J.* 22: 1-24. Ref. Jan. 1949. 420 K13
- 38338 TURNER, W. F. Insect vectors of phony peach disease. *Science* 109: 87-88. Jan. 28, 1949. 470 Sci2
- Tests with *Homalodisca triquetra*, *Graphocephala versuta*, *Cuerna costalis*, and *Oncometopia undata*.
- 38339 WEDDELL, J. A. Black aphids [*Aphis leguminosae*] invade south-eastern Queensland. *Queensland Agr. J.* 67: 267. Nov. 1948. 23 Q33
- 38340 WOOD, S. F. Additional observations on *Trypanosoma cruzi* Chagas, from Arizona in insects [*Triatoma* spp., *Paratriatoma hirsuta*], rodents, and experimentally infected animals. *Amer. J. Trop. Med.* 29: 43-53. Ref. Jan. 1949. 448.8 Am33



38341 WOODSIDE, A. M. Control of cat-facing by spraying. Va. Fruit 37(3): 32-33. Mar. 1949. 81 V81B  
Caused chiefly by *Lygus oblineatus*, on peach.

38342 WYGODZINSKY, P. Studies on some apterous *Aradidae* from Brazil (Hemiptera). Mus. Nac. B. Nov. Sér., Zool. 86, 23 p. Oct. 15, 1948. 516 R47Bz  
Portuguese summary.

Includes new species in *Notoplocoris*, *Asterocoris*, *Glyptocoris*, *Acaricoris*, and *Emydacoris*.

#### HYMENOPTERA

38343 COLE, A. C. New ant hosts of the fungus, *Laboulbenia formicarum* Thaxter. Ent. News [Philadelphia] 60: 17. Jan. 1949. 421 En88

*Lasius niger* sitkaensis and *Formica parcipappa*.

38344 CRÉVECOEUR, A. Croissance dysharmonique chez *Osmia rufa* L. (Hym. Apidae). Soc. Ent. de Belg. B. & Ann. 84: 109. June 1948. 420 B41

38345 DAVIS, E. G. Status of the wheat stem sawfly [*Cephus cinctus*] in the northern Great Plains in 1948. U. S. Bur. Ent. and Plant Quar. Insect Pest Survey. Spec. Sup. 1949(3), 3 p. Feb. 21, 1949. 1.9 En831B

38346 DONISTHORPE, H. A people not strong. Ent. Rec. & J. Variation 61: 13. Feb. 1949. 421 En89  
Comment on a paper on ant behavior by John Welman.

38347 DONISTHORPE, H. A sixth instalment of the Ross collection of ants from New Guinea. Ann. & Mag. Nat. Hist. (ser. 12) 1: 744-759. Oct. 1948. 410 An77  
Includes new species in *Rhytidoponera*, *Euponera*, *Anochetus*, *Pheidole*, *Pristomyrmex*, *Podomyrma*, *Xiphomyrmex*, *Iridomyrmex*, *Acropyga*, and *Pseudolasius*.

38348 EATON, C. B. Lake States native larch again suffering from sawfly [*Pristiphora erichsonii*] attacks. Miss. Val. Lumberman 80(8): 7. Feb. 25, 1949. 99.81 M69

38349 ERDÖS, J. Species novae *Eutelinorum* (Hymen. Chalc.) in *strobilis viventium*. (In Hungarian and Latin.) Erdészeti Kísérletk 48: 1-9. 1948. 99.9 Er22

New species in *Platythorax* n. g.

38350 GHESQUIERE, J. Un *Cothonaspi* nouveau parasite de l'hylémie des céréales. Soc. Ent. de Belg. B. & Ann. 84: 105-106. June 1948. 420 B41  
*C. hylemyiae* on *Hylemya coarctata*.

38351 GYÖRFI, J. Beobachtungen über die ernährung der schlupfwespen [Ichneumonidae]. Anz. f. Schädlingssk. 21: 73-74. Aug. 1948. 421 An9

38352 HAGEN, K. S. Two new ichneumonid host records. Pan-Pacific Ent. 25: 35. Jan. 1949. 421 P193  
*Therion californicum* reared from *Prodenia praefica*; *Ephialtes ontario*, from *Phryganidia californica*.

38353 HAVILAND, E. E. Mound changes after ten years in colonies of *Formica exsectoides* Forel. Ent. Soc. Amer. Ann. 41: 438. Dec. 1948. 420 En82

38354 HINCKS, W. D. The occurrence of the genus *Pantopiasta* Maneval (Hym., Belytidae) in Britain. Ent. Monthly Mag. 85: 29-30. Feb. 1949. 421 En86

38355 JAKUBISIAK, S. Ants in the environments of Przybyszewo (South Masovia). Ecological study. (In Polish.) Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. C 3: 319-353. Ref. Nov. 2, 1948. 512 L96Ac  
English summary.

38356 JENKINS, C. F. H. The Argentine ant (*Iridomyrmex humilis* Mayr.) West. Austral. Dept. Agr. J. 2 ser. 25: 245-258. Ref. Sept. 1948. 23 W52J

38357 JULLIARD, C. Les nids de l'*Anoplius caviventris* Auriv. (Hym. Pompilidae). Schweiz. Ent. Gesell. Mitt. 21: 149-158. July 10, 1948. 420 Sw6

38358 KNOWLTON, G. F. Ant control. Utah. State Agr. Col. Ext. M. S. 4, 1 p. Jan. 1949. 275.29 U11Ms

38359 KROMBEIN, K. V. Records of bees from the Solomon Islands with descriptions of new subspecies (Hymenoptera, Apoidea). Brooklyn Ent. Soc. B. 44: 10-14. Feb. 1949. 420 B79

New forms in *Lithurgus* and *Megachile*.

38360 LANHAM, U. N. Notes on the group of *Andrena carlini* Cockerell, with description of a new species from California (Hymenoptera: Apoidea). Pan-Pacific Ent. 25: 33-35. Jan. 1949. 421 P193

38361 LECLERCQ, J. Remarques au sujet de quelques espèces des genres *Amblyteles* et *Ctenichneumon*. Soc. Ent. de Belg. B. & Ann. 84: 175-180. Aug. 31, 1948. 420 B41

38362 LEDOUX, A. Biologie des femelles de la fourmi fileuse (*Oecophylla longinoda* Latr.) élevées isolément. Paris. Acad. des Sci. Compt. Rend. 228: 430-431. Jan. 31, 1949. 505 P21

38363 LEJEUNE, R. R., and MARTIN, J. B. Studies on annual rings of tamarack. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 2. Nov./Dec. 1948. 423.92 C16F

Study furnishes information on past history of *Pristiphora erichsonii*.

38364 MARTELLI, G. M. Control of ants in seed beds. (In Italian.) Riv. della Ortoflorofruttic. Ital 32: 164-165. Sept./Oct. 1948. 86 R22

38365 MIDDLEKAUFF, W. W. Bionomics of some American sawfly larvae. (Abs.) Pan-Pacific Ent. 25: 40. Jan. 1949. 421 P193

38366 MUNRO, J. A., NOSTDAHL, W., and POST, R. L. Wheat stem sawfly [*Cephus cinctus*]. N. Dak. Agr. Expt. Sta. Bimo. B. 11(3): 85-91. Jan./Feb. 1949. 100 N813B

38367 NOGUEIRA-NETO, P. Stingless bees in the U. S. Gleanings Bee Cult. 76: 687. Nov. 1948. 424.8 G47

Notes on *Melipona* and *Trigona* spp.

38368 OTTEN, E. Brutnester von *Lionotus innumabilis* Sauss. in pinienstämmen (Hymenoptera: Vespidae—Diptera: Tachinidae). Anz. f. Schädlingssk. 21: 59-60. July 1948. 421 An9

Pupae of *Amobia signata* found in some nests.

38369 POPOV, V. V. Oligotropism of the species of the genus *Quartinia* Grib. (Hymenoptera, Vespoidea). (In Russian.) Zool. Zhur. 27: 317-328. Ref. July/Aug. 1948. 410 R92

38370 RIEGEL, G. T. The wings of *Braconidae* (Hymenoptera). Ent. Soc. Amer. Ann. 41: 439-449. Ref. Dec. 1948. 420 En82

38371 SAVZDARG, E. E. Ants in orchards and in vegetable gardens. (In Russian.) Sad i Ogorod 1948 (8): 65-66. Aug. 1948. 87 Sal

38372 SCHLOTFELDT, C. S. A historical curiosity concerning the Sauva [*Atta* spp.] in Brazil. Its judgment by a special tribunal in Maranhão at the beginning of the XVIIIth century. (In Portuguese.) Rev. Ceres 7: 423-427. June/Sept. 1948. 9.2 C332

38373 SIMMONS, P., FISHER, C. K., and TYLER, J. G. Notes on the Apache wasp [*Polistes apachus*] in California. Ent. Soc. Amer. Ann. 41: 450-454. Dec. 1948. 420 En82

38374 SMITH, M. R. A new species of *Probolomyrmex* from Barro Colorado Island, Canal Zone (Hymenoptera, Formicidae). Ent. Soc. Wash. Proc. 51: 38-40. Feb. 1949. 420 W27

38375 VENKATRAMAN, T. V., GUPTA, S. N., and NEGI, P. S. Preliminary trials in the propagation of *Bracon* (*Microbracon*) *greeni* Ashmead on unnatural hosts. Indian Lac Res. Inst. B. 74: 92-104. 1948. 423.92 In22B  
Natural parasite of *Eublema amabilis*, reared successfully on *Pectinophora gossypiella*, *Scirpophaga nivella*, *Leucinodes orbonalis*, etc.

38376 WEBER, N. A. New African ants of the genera *Cerapachys*, *Phryacaces*, and *Simopone*. Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1396, 9 p. Jan. 21, 1949. 500 N483N

38377 WEBER, N. A. New ponerine ants from Equatorial Africa. Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1398, 9 p. Jan. 25, 1949. 500 N483N  
New species in *Discothyrea*, *Probolomyrmex*, *Centromyrmex*, and *Asphinctopone*.

38378 WHEELER, G. C. The larvae of the fungus-growing ants [Attini]. Amer. Midland Nat. 40: 664-689. Ref. Nov. 1948. 410 M58

38379 WING, M. W. A new *Formica* from northern Maine, with a discussion of its supposed type of social parasitism (Hymenoptera: Formicidae). Canad. Ent. 81: 13-17. Jan. 1949. 421 C16

38380 WING, M. W. The present status of the distribution of *Vespa crabro* var. *germana* Christ in North America. Ent. News [Philadelphia] 60: 7-10. Jan. 1949. 421 En88  
See also Apiculture and *Apis mellifera*.

#### LEPIDOPTERA

38381 ABDEL-MALEK, A., and STEINHAUS, E. A. Invasion route of *Nosema* sp. in the potato tuberworm [*Gnorimoschema operculella*] as determined by ligaturing. J. Parasitol. 34: 452-453. Oct. 1948. 448.8 J824



- 38382 BALLAND, R. Une migration de *Pieris brassicae* L. (Lépidoptères). Feuille des Nat. (n. s.) 2: 106. Nov./Dec. 1947. 410 F432
- 38383 BELL, E. L. Two new species of *Telemiades* and notes on some others (Lepidoptera, Rhopalocera). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1385, 10 p. Ref. Jan. 3, 1949. 500 N483N
- 38384 BENANDER, P. *Coleophora prunifoliae* Doets in Sweden (Lep.). (In Swedish.) Opuscula Ent. 13: 171. 1948. 421 Op7  
English summary.
- 38385 BENANDER, P. Microlepidoptera from Gotland, new for Sweden (Lep.). (In Swedish.) Opuscula Ent. 13: 171. 1948. 421 Op7  
English summary.
- 38386 BERGER, L. A. Une forme rare de *Colias hyale* L. Soc. Ent. de Belg. B. & Ann. 84: 146. Aug. 31, 1948. 420 B41
- 38387 BLANCHARD, R. A., and CHAMBERLIN, T. R. Tests of insecticides, including DDT, against the corn earworm [*Heliothis armigera*] and the fall armyworm [*Laphygma frugiperda*] in corn. J. Econ. Ent. 41: 928-935. Dec. 1948. 421 J822
- 38388 BOURQUIN, F. Biologías de Lepidopteros: *Acrolophus argentinus* Walsg., 1887 (fam. Tineidae, subf. Acrolophinae). (Abs.) Soc. Ent. Argentina Rev. 14: 166-167. Oct. 25, 1948. 420 So14
- 38389 BOURQUIN, F. Notas sobre la metamorfosis de *Chloropteryx munda* (Warren) 1897 (Lep. Geometr.). Soc. Ent. Argentina Rev. 14: 137-140. Oct. 25, 1948. 420 So14
- 38390 BOURQUIN, F. Notas sobre la metamorfosis de *Cucullia heinrichi* Köhler i. l. sp. n (Lepidop. fam. Cucullianae). (Abs.) Soc. Ent. Argentina Rev. 14: 159. Oct. 25, 1948. 420 So14
- 38391 BOURQUIN, F. A. Notas sobre la metamorfosis de *Rothschildia arethusa* Walker. B. Notas sobre la metamorfosis de *Rothschildia schreiteriana* Orfila y Breyer. (Lep. Saturniidae). (Abs.) Soc. Ent. Argentina Rev. 14: 163-164. Oct. 25, 1948. 420 So14
- 38392 BOURQUIN, F. Observación sobre le metamorfosis de un lepidóptero cuya determinación debe ser revisada. (Abs.) Soc. Ent. Argentina Rev. 14: 168-169. Oct. 25, 1948. 420 So14
- 38393 BROWN, S. C. S. The feeding habits of *Herse convolvuli* L. (Lep., Sphingidae). Ent. Monthly Mag. 85: 34. Feb. 1949. 421 En86
- 38394 BROWN, S. C. S. The mine of *Stigmella subimaculella* Haw. (Lep., Stigmellidae). Ent. Monthly Mag. 85: 45. Feb. 1949. 421 En86
- 38395 BRUUN, H. Information on the butterfly fauna of Västmanland and Härjedalen. (In Swedish.) Opuscula Ent. 13: 157-158. 1948. 421 Op7  
German summary.
- 38396 BRYK, F. Daniel Solander, der ursprüngliche besitzer des aufgefundenen Linnéschen typus von *Papilio* [i.e. *Caligo*] *teucer* L. (Lep.: Brassolidae). Opuscula Ent. 13: 168. 1948. 421 Op7
- 38397 BURR, M. Lepidopterous larvae in galls: an enquiry. Ent. Rec. & J. Variation 61: 19. Feb. 1949. 421 En89
- 38398 CARTE, E. Cúmplese en San Juan una activa campaña contra el bicho de cesto [*Oiketicus kirbyi*]; se utiliza en las tareas un helicóptero. Chacra 19(220): 86. Feb. 1949. 9 C34
- 38399 CHAO, H. F., and LIN, C. M. On the epidemic of the pine-caterpillar, *Dendrolimus spectabilis*, (Lasio-campidae, Lepid.) in the year 1947-1948, Foochow. (In Chinese.) Fukien Agr. J. 9: 148-162. Ref. June 1948. 22.5 F95  
English summary.
- 38400 CHIARELLI DE GAHAN, A. Una nueva plaga sobre manzanos de Río Negro, *Proxenus* sp. (Lepid., Noctuidae). (Abs.) Soc. Ent. Argentina Rev. 14: 171. Oct. 25, 1948. 420 So14
- 38401 COCKAYNE, E. A., and KETTLEWELL, H. B. D. *Selenia tetralunaria*, Hufn., ab. nigrescens, ab. nov., with an account of its genetics. Ent. Rec. & J. Variation 61: 9-12. Feb. 1949. 421 En89
- 38402 COLLENETTE, C. L. The *Lymantriidae* of Java. Ann. & Mag. Nat. Hist. (ser. 12) 1: 685-744. Oct. 1948. 410 An77  
Includes new species in *Euproctis*, *Lymantria*, *Dura*, *Aroa*, and *Neorgyia*.
- 38403 CORLISS, J. M. Gypsy moth [*Porthetria dispar*] control with DDT. Trees [Cleveland] 9(2): 15, 21, 24. Jan./Feb. 1949. 99.8 W52
- 38404 DEAN, R. W. Controlling the red-banded leaf roller [*Argyrotaenia velutinana*]. Amer. Fruit Grower 69(2): 20, 42-43. Feb. 1949. 80 G85
- 38405 DIEMER, G. Controlling the wax moth [*Galleria mellonella*]. South Beekeeper 2(12): 7, 14. Dec. 1948. 424.8 So83
- 38406 DILLS, L. E., and ODLAND, M. L. Cabbage caterpillar insecticide tests. J. Econ. Ent. 41: 948-950. Dec. 1948. 421 J822  
Control of *Pieris rapae* and *Trichoplusia ni*.
- 38407 DOS PASSOS, C. F. The distribution of *Oeneis taygete* Geyer in North America with descriptions of new subspecies (Lepidoptera, Satyridae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1399, 21 p. Ref. Jan. 26, 1949. 500 N483N
- 38408 DOS PASSOS, C. F. New butterflies from Mount McKinley National Park, Alaska, with a review of *Erebia rossii* (Rhopalocera, Satyridae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1389, 17 p. Jan. 6, 1949. 500 N483N  
New species in *Oeneis*.
- 38409 DUFRANE, A. Lépidoptères du Kivu. 4. Soc. Ent. de Belg. B. & Ann. 84: 160-168. Aug. 31, 1948. 420 B41  
New forms in *Anapheis*, *Appias*, and *Mylothris*.
- 38410 ERLICH, P. R. Field notes. Lepidopterists' News 2: 92. Nov. 1948. 421 L554  
On the eye colors of the *Colias eurytheme*-*philodice* complex. On the parasitization of *Danaus plexippus* [by *Compsilura concinnata*]. On the use of "flyways" by *Papilio glaucus*.
- 38411 FISCHER, H. Zur biologie und bekämpfung des pflaumenwicklers (*Laspeyresia* [i.e. *Grapholitha*] *funebrana* Tr.) in Norddeutschland. Anz. f. Schädlingsk. 21: 40-43. June 1948. 421 An9
- 38412 FLETCHER, T. B. *Evetria purdeyi*, Durrant, 1911. Ent. Rec. & J. Variation 61: 18. Feb. 1949. 421 En89
- 38413 FLUKE, C. L. Control of the codling moth [*Carpocapsa pomonella*] in Door County—1948. Wis. Hort. 39: 133. Feb. 1949. 80 W752
- 38414 FORBES, A. Butterfly migration near Italy. Lepidopterists' News 2: 94. Nov. 1948. 421 L554
- 38415 FRASER, F. C. Second brood of *Maniola jurtina* (L.) (Lep., Satyridae). Ent. Monthly Mag. 85: 28. Feb. 1949. 421 En86
- 38416 FRASER, F. C. *Stauropus fagi* (L.) (Lep., Notodontidae) feeding on *Pyrus communis* L. Ent. Monthly Mag. 85: 48. Feb. 1949. 421 En86
- 38417 FREZAL, P. Essais de destruction des vers gris du type "Agrotis" dans les plantations de tabac. Algeria. Inst. Agr. Ann. 4(6), 8 p. Dec. 1948. 108 AL35
- 38418 FU, S. F., and TSAO, C. Y. A preliminary test on the control of hibernating larvae of pink boll worm [*Pectinophora gossypiella*]. (In Chinese.) Chin. J. Cotton 1(2): 62-66. Nov. 11, 1948. 72.8 C444  
English summary.
- 38419 GILCHRIST, A. We haven't whipped the corn borer [*Pyrausta nubilalis*]. Iowa Agriculturist 48(6): 8-9. Jan. 1949. 6 Io9
- 38420 GÓMEZ CLEMENTE, F. La oruga del tomate [*Heliothis armigera*]. Murcia, Spain. Cám. Ofic. Agr. B. 75: 3-6. Jan. 1949. 15 M93
- 38421 GOULD, E., and HAMSTEAD, E. O. Control of the red-banded leaf roller [*Argyrotaenia velutinana*]. J. Econ. Ent. 41: 887-890. Dec. 1948. 421 J822  
DDD, toxaphene, parathion, lead arsenate and DDT, tested in apple orchards.
- 38422 GOZMÁNY, L. A. A survey of the helophilous macro-moths of the Hungarian moorlands. Lepidopterists' News 2: 93-94. Nov. 1948. 421 L554
- 38423 GRAHAM, C. Control of the red banded leaf roller [*Argyrotaenia velutinana*], codling moth [*Carpocapsa pomonella*], and European red mite [*Paratetranychus pilosus*]. Peninsula Hort. Soc. Trans. 62: 15-23. 1948. 81 P37
- 38424 GRAYSON, J. M. The red-banded leaf roller [*Argyrotaenia velutinana*] and mites. Va. Fruit 37(3): 28-30. Mar. 1949. 81 V81B  
Apple pests.



- 38425 GUNDERSON, H. Corn borers [*Pyrausta nubilalis*] on the march. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 3(8): 8. Feb. 1949. 275.28 Io94
- 38426 HARRISON, J. W. H. Rhopalocera in the Scottish Western Isles in 1948, with an account of two new forms of *Pararge aegeria* L. (Lep., Satyridae). Ent. Monthly Mag. 85: 25-28. Feb. 1949. 421 En86
- 38427 HENSON, W. R. Influence of meteorological factors on behaviour of the spruce budworm [*Choristoneura fumiferana*]. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 2. Nov./Dec. 1948. 423.92 C16F
- 38428 HEPBURN, G. A. An attempt to control false codling moth [*Argyroplote leucotreta*] by means of insecticidal sprays. Citrus Grower 179: 2-3, 5; 180: 1-3. Dec. 31, 1948-Jan. 31, 1949. 80 C495
- 38429 HILL, W. R., RUBENSTEIN, A. D., and KOVACS, J., JR. Dermatitis resulting from contact with moths (genus *Hylesia*). Report of cases. Amer. Med. Assoc. J. 138: 737-740. Nov. 6, 1948. 448.9 Am37
- 38430 HOPPING, G. R. Spruce budworm. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 3. Nov./Dec. 1948. 423.92 C16F
- Choristoneura fumiferana* in the Rocky Mountain region.
- 38431 HOVANITZ, W. Change of host preference in *Colias philodice*. J. Econ. Ent. 41: 980-981. Dec. 1948. 421 J822
- 38432 ILLINOIS. AGRICULTURAL EXPERIMENT STATION. Corn borer [*Pyrausta nubilalis*] control in field corn. Ill. Agr. Col. Ext. C. 637, 16 p. Feb. 1949. 275.29 IL62C
- Illinois State Natural History Survey cooperating.
- 38433 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. DDT emulsions for use in corn borer [*Pyrausta nubilalis*] control. Ill. Agr. Col. Ext. NH251, 1 p. Apr. 13, 1948. 275.29 IL62Ph
- 38434 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 1948 recommendations for corn borer [*Pyrausta nubilalis*] control on canning corn. Ill. Agr. Col. Ext. NH241, 1 p. Jan. 3, 1948. 275.29 IL62Ph
- 38435 INGRAM, J. W., BYNUM, E. K., and CHARPENTIER, L. J. Experiments with insecticides against the sugarcane borer [*Diatraea saccharalis*] in 1947. J. Econ. Ent. 41: 914-918. Dec. 1948. 421 J822
- 38436 JAHN, E. Das massenaufreten des grauen lärchenwicklers *Grapholitha* [i.e. *Enarmonia*] (*Semasia*) *diniana* in Österreich in den Jahren 1946 und 1947. Anz. f. Schädlingsk. 21: 49-51. July 1948. 421 An9
- 38437 JANNONE, G. Studies and research on agricultural entomology in Eritrea and Ethiopia. V. Occurrence, morpho-biology and damage from *Zophopetes dysmephila* Trimen (Lep., Rhop., Hesperidae) in Eritrea. (In Italian.) Riv. di Agr. Subtrop. e Trop. 42: 230-250. Oct./Dec. 1948. 26 Ag82
- English summary.
- 38438 KALLENBACH, F. Kohlweissling [*Pieris brassicae*] und kohleule [*Mamestra brassicae*] rechtzeitig vernichten! Land Wald u. Gart. 3: 168. July 1948. 18 L22
- 38439 KING, H. L., HUTSON, R., and FARR, T. H. The control of red-banded leaf roller [*Argyrotaenia velutinana*] with parathion. J. Econ. Ent. 41: 976-977. Dec. 1948. 421 J822
- 38440 KURIR, A. Massenwechselgebiete des lärchenwicklers (*Semasia* [i.e. *Enarmonia*] *diniana* Gn.) in Österreich von 1858-1948. Allg. Forst- u. Holzwirtschaft. Ztg. 60: 12-14. Ref. Jan. 1949. 99.8 AL53
- 38441 LEEDS, H. A. Butterfly collecting in Wood Walton, Hunts., area, and the Chiltern Hills, during 1948. Ent. Rec. & J. Variation 61: 13-17. Feb. 1949. 421 En89
- 38442 LEPIDOPTERISTS' SOCIETY. List of members of the Lepidopterists' Society, September 1948. Cambridge, Mass., 1948. 12 p. 420 L55
- 38443 LICENT, E. Le cocon et la chrysalide de l'*Eligma narcissus* (Cr.). Soc. Ent. de Belg. B. & Ann. 84: 142. Aug. 31, 1948. 420 B41
- 38444 LUDEWIG, K. Raupen am kohl. Kleingärt. u. Siedler 2: 89. Aug. 1948. 80 K67
- 38445 MCDUNNOUGH, J. H. Critical notes on certain *Pero* species (Lepidoptera, Geometridae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1393, 11 p. Jan. 18, 1949. 500 N483N
- 38446 MCDUNNOUGH, J. H. Notes on Phalaeninae (Lepidoptera). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1394, 14 p. Jan. 18, 1949. 500 N483N
- Genus *Euxoa* Hübner. New species in Abagrotis.
- 38447 MCGUGAN, B. M. The importance of native parasites [of *Choristoneura fumiferana*]. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 2. Nov./Dec. 1948. 423.92 C16F
- Increase in *Apanteles fumiferanae*, *Meteorus trachynotus*, and chalcids.
- 38448 MATHERS, W. G. False hemlock looper [*Nepytia canosaria*]. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 3. Nov./Dec. 1948. 423.92 C16F
- 38449 MELIS, A. Indispensability of attacking on the carpovorous generation for securing control of the olive moth (*Prays oleellus* F.) (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 701-725. 1948. 16 An76
- English summary.
- 38450 MICHELbacher, A. E., and MIDDLEKAUFF, W. W. Control of codling moth [*Carpocapsa pomonella*] on Payne walnuts in northern California. Diamond Walnut News 31(2): 10, 12. Mar. 1949. 94.68 D34
- 38451 MICHELbacher, A. E., MIDDLEKAUFF, W. W., and DAVIS, D. Payne walnuts; codling moth [*Carpocapsa pomonella*] investigations in northern California and recommendations for 1949. Calif. Agr. [Calif. Sta.] 3(3): 3-4. Mar. 1949. 100 C12Cag
- 38452 MICHENER, C. D. Sympatric species of *Calisto* in Cuba (Lepidoptera, Satyrinae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1391, 3 p. Jan. 10, 1949. 500 N483N
- 38453 MORALES AGACINO, E. Las polillas de las colmenas. Spain. Min. de Agr. Serv. de Capac. y Propag. Hojas Divulg. 22, 16 p. Nov. 1948. 15 H68
- Galleria mellonella*, *Achroia grisella*, *Plodia interpunctella*, *Ephestia kühniella*.
- 38454 MUKERJI, S., and VENKATRAMAN, T. V. Studies on *Epipyrops melanoleuca* Fletcher (Lepidoptera: Epipyropidae), an ectoparasite of the sugarcane leaf-hopper, *Pyrilla* spp. (Homoptera: Fulgoridae). Zool. Soc. Bengal. Proc. 1: 91-102. Ref. Sept. 1948. 410.9 Z73
- 38455 MUNROE, E. A new genus of Nymphalidae [*Archimestra*] and its affinities (Lepidoptera, Rhopalocera). N. Y. Ent. Soc. J. 57: 67-78. Ref. Mar. 1949. 420 N48J
- 38456 MUSGRAVE, A. Some butterflies of Australia and the Pacific. Family Danaidae-Danaids. II. Austral. Mus. Mag. 9: 309-314. Oct./Dec. 1948. 475 Au7
- 38457 NABOKOV, V. The Nearctic members of the genus *Lycaeides* Hübner (Lycaenidae, Lepidoptera). Harvard U. Mus. Compar. Zool. B. 101: 479-541. Feb. 1949. 500 H26B
- 38458 NEPVEU, P. *Sesamia cretica* Led., noctuelle nuisible au sorgho en France, et les techniques de lutte à lui opposer. Acad. d'Agr. de France. Compt. Rend. 34: 971-972. Dec. 8/22, 1948. 14 P215Bc
- 38459 OLSON, H. Fighting the spruce budworm [*Choristoneura fumiferana*] by air attack. Nature Mag. 42: 182-184, 194. Apr. 1949. 409.6 N214
- 38460 PARSONS, A. C. The polyphemus moth [*Telega polyphemus*]. Nat. Hist. 58: 78-81. Feb. 1949. 500 N483J
- 38461 PATEL, G. A., and BASU, A. C. Bionomics of *Leucinodes orbonalis* Guen., (Lepidoptera) and *Epilachna* spp., (Coleoptera), the important pests of the brinjal, *Solanum melongena* L. in Bengal. Zool. Soc. Bengal. Proc. 1: 117-129. Ref. Sept. 1948. 410.9 Z73
- 38462 PETERSON, L. The ash borer (*Podotesia* [*syringae*] *fraxini* Lug.). Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 2-3. Nov./Dec. 1948. 423.92 C16F
- 38463 POURRAIN, P. La caroncule chez les *Papilio* (Lépidoptères Papilionidae). Feuille des Nat. (n. s.) 2: 76. July/Aug. 1947. 410 F432
- 38464 RAMAIN, P. Contribution à l'étude des migrations de certains lépidoptères. Feuille des Nat. (n. s.) 2: 73-74. July/Aug. 1947. 410 F432
- Celerio lineata* livornica; *Phytometra bractea*.
- 38465 RAUN, E. S., and BLICKENSTAFF, C. C. Fight borers [*Pyrausta nubilalis*] by land or by air. Iowa. State Col. Agr. Ext. Iowa Farm Sci. 3(8): 6-8. Feb. 1949. 275.28 Io94



38466 REMINGTON, C. L. Procedure in taxonomy. V. Categories of classification. Lepidopterists' News 2: 90. Nov. 1948. 421 L554

38467 REMINGTON, P. S., JR., and EFF, J. D. A collecting trip in search of *Speyeria egleis secreta*. Lepidopterists' News 2: 91-92. Nov. 1948. 421 L554

38468 RICHMOND, H. A. Western hemlock looper [*Lambdina fiscellaria lugubrosa*]. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4 (6): 3. Nov./Dec. 1948. 423.92 C16F

Damage aggravated by secondary pests, *Tetropium velutinum* and *Dendroctonus pseudotsugae*.

38469 RINDGE, F. H. Observations on the life history of *Chlorosea banksaria* Sperry (Lepidoptera: Geometridae). Pan-Pacific Ent. 25: 24-26. Jan. 1949. 421 P193

38470 RUPERT, L. R. A revision of the North American species of the genus *Plagodis* (Lepidoptera, Geometridae, Ennominae). N. Y. Ent. Soc. J. 57: 19-49. Mar. 1949. 420 N48J

38471 SCHEDL, K. G. Die nonnenbekämpfung in der Obersteiermark. Österr. Forst- u. Holzwirtschaft. 3: 232-233. Aug. 7, 1948. 99.81 Os7

*Lymantria m. acha.*

38472 SCHMIDT, M., and KIND, H. E. Mit moto-verstäuber und gesarol gegen goldafterraupen [*Nygmia phaeorrhoea*] auf hohen strassenbäumen. Nachrichtenbl. f. den Deut. Pflanzenschutzdienst (n. s.) 2: 133-134. July/Aug. 1948. 464.9 N11

38473 SMIT, B. Cutworms in farm lands and gardens. Farming So. Africa 23: 756-758. Nov. 1948. 24 So842

In South Africa.

38474 STARK, R. W. Lodgepole pine needle miner [*Recurvaria milleri*]. Canada. Sci. Serv. Div. Ent. Forest Insect Invest. Bi-monthly Prog. Rpt. 4(6): 3. Nov./Dec. 1948. 423.92 C16F

38475 STEINHAUS, E. A., and THOMPSON, C. G. Alfalfa caterpillar [*Colias philodice eurytheme*] tests; biological control by artificial spread of virus disease studied. Calif. Agr. [Calif. Sta.] 3(3): 5-6. Mar. 1949. 100 C12Cag

38476 STEINHAUS, E. A., HUGHES, K. M., and WASSER, H. B. Demonstration of the granulosis virus of the variegated cutworm [*Peridroma margaritosa*]. J. Bact. 57: 219-224. Feb. 1949. 448.3 J82

38477 STEINHAUS, E. A. Polyhedrosis, ("wilt disease") of the alfalfa caterpillar [*Colias philodice eurytheme*]. J. Econ. Ent. 41: 859-865. Dec. 1948. 421 J822

38478 STEINHAUS, E. A., and HUGHES, K. M. Two newly described species of Microsporidia from the potato tuberworm, *Gnorimoschema operculella* (Zeller) (Lepidoptera, Gelechiidae). J. Parasitol. 35: 67-75. Ref. Feb. 1949. 448.8 J824

*Nosema destructor* and *Plistophora californica*.

38479 TILDEN, J. W. Notes on parasites of certain Microlepidoptera (Gracilariidae). Pan-Pacific Ent. 25: 27-28. Jan. 1949. 421 P193

Parasites of *Lithocolletis nemoris*, *L. agrifoliella*, and *Gracilaria reticulata* include species of *Apanteles*, *Zagrammosoma*, *Chrysocharis*, and *Gelis*.

38480 TOUMANOFF, C. Réactions de défense chez les chenilles de fausses teignes des ruches [*Galleria mellonella*], parasitées par un sporozoaire (*Coellogregarina ephestiae*. Ghél.). Paris. Acad. des Sci. Compt. Rend. 228: 506-508. Feb. 7, 1949. 505 P21

38481 TURNER, H. J. The occurrence of *Melitaea cinxia* in Hants and Dorset. Ent. Rec. & J. Variation 61: 19. Feb. 1949. 421 En89

38482 VARIN, G. Quinze jours de chasse aux Lépidoptères dans les Hautes-Alpes. Entomologiste 4: 143-147. May/Aug. 1948. 421 En814

38483 WARREN, J. C., LAIRD, E. F., and STEARNS, L. A. Results with new insecticides against European corn borer [*Pyrausta nubilalis*] and corn earworm [*Heliothis armigera*], Delaware, 1948. Peninsula Hort. Soc. Trans. 62: 68-73. 1948. 81 P37

38484 WEDDELL, J. A. Control of army worms [*Cirphis unipuncta*]. Queensland Agr. J. 67: 266-267. Nov. 1948. 23 Q33

38485 WILLIAMS, C. B. Butterfly migration. London, Daily Mail School-Aid Dept., 1948. 19 p. 430 W67B

38486 WILSON, K. H. Swarming of *Eurema nicippe* (Cramer), (Lepidoptera: Pieridae). Brooklyn Ent. Soc. B. 44: 20. Feb. 1949. 420 B79

38487 WOLFRAM, R. Die ommochrom-menge in den Malpighischen gefässen bestimmende allele der mehlmotte *Ephestia kühniella*. Z. f. Naturf. 3b: 291-293. July/Aug. 1948. 474 Z3

See also Sericulture and the Silkworm.

## ORTHOPTERA

38488 ALLEGRE, C. F. Contributions to the life history of a gregarine parasitic in grasshoppers. Amer. Micros. Soc. Trans. 67: 211-226. Ref. July 1948. 440.9 Am33

Study of *Gregarina rigida* in *Melanoplus differentialis*.

38489 BOURGIN, P. Sur l'extension de *Mantis religiosa* L. en France et en Belgique (Orth. Mantidae). Entomologiste 4: 134-137. May/Aug. 1948. 421 En814

38490 BURR, M. The pigment of Orthoptera. Ent. Rec. & J. Variation 61: 18. Feb. 1949. 421 En89

38491 CREIGHTON, J. T. Investigación entomológica sobre la langosta. Suelo Tico 1: 228-244. Oct. 1948. 8 Su2

Translated by J. J. Montero F.

38492 DAVENPORT, D. Studies in the pharmacology of the heart of the orthopteron, *Stenopelmatus longispina*. Physiol. Zool. 22: 35-44. Ref. Jan. 1949. 410 P56

38493 DECKER, G. C. Watch for grasshoppers. Ill. Agr. Col. Ext. NH253, 2 p. June 2, 1948. 275.29 IL62Ph

38494 DRESDEN, D. Site of action of D.D.T. and cause of death after acute D.D.T. poisoning. Nature [London] 162: 1000-1001. Dec. 25, 1948. 472 N21

Experiments with *Periplaneta americana* and frogs.

38495 DUTT, M. K. A cytological investigation on the genus *Phloeoba* (Acrididae). Natl. Inst. Sci. India. Proc. 14: 13-20. Jan. 1948. 513 N212

38496 GAINES, J. C., and DEAN, H. A. Comparison of insecticide dusts for grasshopper control. J. Econ. Ent. 41: 945-948. Dec. 1948. 421 J822

Tests with *Melanoplus differentialis*.

38497 GALLAWAY, H. E. *Melanoplus occidentalis* a range species of grasshopper in Nevada. J. Econ. Ent. 41: 925-927. Dec. 1948. 421 J822

38498 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Chlordane for grasshopper control. Ill. Agr. Col. Ext. NH248, 1 p. Mar. 31, 1948. 275.29 IL62Ph

38499 JEANNEL, R. La lutte biologique contre les sauterelles. Acta Trop. 5: 289-305. 1948. 475 Ac8

English and German summaries.

38500 JOHNSTON, E. F. Borgia of the insect world. Nat. Hist. 58: 136-140. Mar. 1949. 500 N483J

*Tenodera aridifolia sinensis*.

38501 KNOWLTON, G. F. Grasshopper control in Utah, 1948. Utah. State Agr. Col. Ext. M. S. 776, 3 p. Dec. 18, 1948. 275.29 UtlmS

38502 MALDONADO BRUZZONE, R. Langostas dispersas en el oriente boliviano. IDIA; Inform. de Invest. Agr. 2(13): 8-9. Jan. 1949. 9 Id3

38503 MUSPRATT, V. M. Migrations d'insectes dans le sud-ouest de la France. Feuille des Nat. (n. s.) 2: 28-29. Feb./Mar. 1947. 410 F432

*Lotusta migratoria*; *Sympetrum meridionale*.

38504 NOLAND, J. L., and BAUMANN, C. A. Requirement of the German cockroach [*Blattella germanica*] for choline and related compounds. Soc. Expt. Biol. and Med. Proc. 70: 198-201. Feb. 1949. 442.9 So1

38505 PIRÁN, A. A. El alotipo de *Parudenus falklandicus* Enderl. (Orth. Tettigon.). (Abs.) Soc. Ent. Argentina Rev. 14: 171. Oct. 25, 1948. 420 So14

38506 REHN, J. A. G. The acridoid family Eumastacidae (Orthoptera). A review of our knowledge of its components, features and systematics, with a suggested new classification of its major groups. Acad. Nat. Sci. Phila. Proc. 100: 77-139. 1948. 500 P53

38507 REHN, J. A. G. The locust genus *Tanaocerus* as found in the United States, and the description of a related new genus [*Mohavacris*] (Orthoptera: Acridoidea). Acad. Nat. Sci. Phila. Proc. 100: 1-22. 1948. 500 P53



38508 REMAUDIERE, G. Contribution à l'étude des *Locusta migratoria* L.; phase solitaria de la région de Palavas (Hérault). Rev. de Path. Veg. et d'Ent. Agr. de France 27: 146-163. Ref. July 1948. 464.9 S01

38509 RIS, H. The anaphase movement of chromosomes in the spermatocytes of the grasshopper [*Chortophaga viridifasciata*]. Biol. B. 96: 90-106. Ref. Feb. 1949. 442.8 B52

38510 RUSSELL, M. Head off those 'hoppers! Colo. Rancher & Farmer 3(4): 1, 5. Feb. 26, 1949. 6 C714

38511 SCHARFF, D. K. Hopper prospects for '49 are serious. Mont. Farmer-Stockman 36(13): 1, 7. Mar. 1, 1949. 6 M764

38512 SHREWSBURY, J. F. D., and BARSON, G. J. A study of the intestinal flora of *Blattella* [i.e. *Periplaneta*] americana. J. Path. and Bact. 60: 506-509. July 1948. 448.8 J82

38513 TINKHAM, E. R. Faunistic and ecological studies on the Orthoptera of the Big Bend Region of Trans-Pecos Texas, with especial reference to the orthopteran zones and faunae of midwestern North America. Amer. Midland Nat. 40: 521-663. Ref. Nov. 1948. 410 M58

#### SERICULTURE AND THE SILKWORM

38514 BORINI, F. Provisions in behalf of silkworm culture. (In Italian.) Rinascita Agr. 3(13): 1. May 1, 1948. 281.8 R47

38515 HOLEC, E. Seidenbau: kapitalsaufwand und ertrag. Österr. Kleintierzüchter 1949: 508. Jan. 1949. 49 Os7

38516 LEONI, P. Silkworm raising. (In Italian.) Not. Agr. [Mantova] 5(6): 1. Feb. 11, 1949. 16 N845

#### SMALLER ORDERS

38517 AGRELL, I. Further remarks on a dubious biocoenological method. Opuscula Ent. 13: 126-128. 1948. 421 Op7

Reply to H. Gisin's criticism of the author's ecological study of the Swedish Collembola.

38518 AHMAD, M. On the identity of *Odontotermes* (Isoptera, Termitidae). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1392, 11 p. Jan. 18, 1949. 500 N483N

38519 AUBERT, J. Plécoptères décrits par la R. P. L. Navas S. J. 1. Note sur quelques types du Musée de Barcelone. Schweiz. Ent. Gesell. Mitt. 21: 180-184. Ref. July 10, 1948. 420 Sw6

38520 AUGUSTSON, G. F., and RYAN, L. C. The flea genus *Rhynchopsyllus* in the United States (Siphonaptera: Hectopsyllidae). South. Calif. Acad. Sci. B. 47: 111-112. Sept./Dec. 1948. 500 S08

38521 BAGNALL, R. S. Notes on British Collembola. Ent. Monthly Mag. 85: 51. (To be cont.) Feb. 1949. 421 En86

Includes new species in *Onychiuroides*, *Agreniella* n. g., and *Anuridella*; also, new genera *Lubbockiella*, *Anurodes*, and *Gastranurida*.

38522 BLANC, G., and BRUNEAU, J. Comportement de *Rickettsia burneti* chez la puce du rat *Xenopsylla cheopis*. Soc. de Biol. Compt. Rend. 142: 1334-1335. Nov. 1948. 442.9 P21

38523 BRINCK, P. Catalogus insectorum sueciae. IX. Anoplura. (In English.) Opuscula Ent. 13: 129-133. 1948. 421 Op7

38524 BRINCK, P. Notes on Anoplura. Especially with regard to the Swedish species. Opuscula Ent. 13: 134-156. Ref. 1948. 421 Op7

38525 DAVIS, J. J. Your responsibilities as termite control operators. Pests 17(3): 28, 32. Mar. 1949. 449.8 Ex8

38526 DELAMARE DEBOUTTEVILLE, C. Collemboles de Belgique récoltés par R. Mayné. Soc. Ent. de Belg. B. & Ann. 84: 133-136. June 1948. 420 B41

38527 EBELING, W., and PENCE, R. J. Control of the greenhouse thrips [*Heliothrips haemorrhoidalis*], long-tailed mealybugs [*Pseudococcus adonidum*] and June beetles [*Serica* spp.] on avocados. Calif. Avocado Soc. Ybk. 33: 93-95. 1948. 81 C128

38528 FAVAREL, R. Le rôle du pou de l'homme [*Pediculus* spp.] dans la transmission de la peste à Madagascar. Soc. de Path. Exot. B. 41: 576-580. Oct. 13, 1948. 448.9 S013

38529 GISIN, H. Divergences à propos de la méthode biocoenotique. Opuscula Ent. 13: 125. 1948. 421 Op7  
Reply to I. Agrell regarding ecological methods of study of Swedish Collembola.

38530 GURNEY, A. B. Distribution and synonymic notes on psocids common to Europe and North America, with remarks on the distribution of Holarctic insects (Corrodentia). Wash. Acad. Sci. J. 39: 56-65. Ref. Feb. 15, 1949. 500 W276J

38531 HASSLER, K., and MESECHER, R. Why the California code of minimum standards was established. Pests 17(3): 16, 18. Mar. 1949. 449.8 Ex8  
Termite control.

38532 HOCKENYOS, G. L. Wall void treatment in termite control. Pests 17(3): 9-13, 38. Mar. 1949. 449.8 Ex8

38533 HODEL, C. Dry wood termite [*Cryptotermes brevis*] control in southern California. Pests 17(3): 30, 32. Mar. 1949. 449.8 Ex8

38534 HUBBARD, C. A. Fleas in the collection of the Royal Ontario Museum of Zoology. Canad. Ent. 81: 11-12. Jan. 1949. 421 C16  
New subspecies in *Peromyscopsylla*.

38535 KOZULINA, O. V. Hermaphroditism in *Pediculus humanus corporis*. (In Russian.) Zool. Zhur. 27: 313-316. Ref. July/Aug. 1948. 410 R92

38536 MACARTHUR, K. The termite, man's ancient enemy. Line 1949: 9-11. Jan./Feb. 1949. 335.8 L64

38537 MACCHIAVELLO, A. Epidemiologia de la peste en las Américas. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 240-249. Ref. 1948. 150 In822

Role of fleas and rodents in transmission.

38538 MANSKI, M. J. Australian Neuroptera. Queensland Nat. 13: 114-115. Dec. 1948. 410 Q3  
New species in *Stilbopteryx*.

38539 MOORE, B. P. *Sympetrum meridionale* Selys (Odon., Libellulidae), new to the Channel Islands. Ent. Monthly Mag. 85: 23. Jan. 1949. 421 En86

38540 MULLER, E. The Black Death. Hygeia 27: 34-35, 58-60. Jan. 1949. 449.8 H993  
History of plague; relation of rats and fleas.

38541 NAJJAR, H. Controlling poultry lice and mites. (In Arabic.) Syria. Ext. Serv. C. 30, 8 p. Sept. 1948. 22.5 Sy8  
English summary.

38542 NOIROT, C. Le développement des neutres chez les termites supérieurs (Termitidae). I. Amitermitinae et Microcerotermitinae. Paris. Acad. des Sci. Compt. Rend. 228: 600-602. Feb. 14, 1949. 505 P21

38543 PEAY, W. E., and KNOWLTON, G. F. Occurrence of thrips [*Thrips tabaci*; *Frankliniella moultoni*] within tomato fruits. J. Econ. Ent. 41: 989-990. Dec. 1948. 421 J822

38544 PERRET, J. E. Le thrips du glaieul [*Taeniothrips simplex*]. Terre Maroc. 21: 52-55. Feb. 1949. 24 T44

38545 RANDOLPH, R. M., OGDEN, L. J., and EADS, R. B. Entomological studies on typhus in Lavaca County, Texas. Tex. Rpts. Biol. and Med. 6: 444-452. Winter 1948. 448.8 T31

Control of *Xenopsylla cheopis* and *Leptopsylla segnis* with DDT dust.

38546 ROBB, T. R., and SCHINAGL, J. F. You can't afford not to destroy cattle lice. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 127-128. Jan. 1, 1949. 6 R153

38547 ROSS, H. H. Xiphocentronidae, a new family of Trichoptera. Ent. News [Philadelphia] 60: 1-7. Jan. 1949. 421 En88

Includes new species in *Xiphocentron*.

38548 RUIZ CASTAÑEDA, M. Flea-borne and louse-borne typhus in Mexico. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1): 408-413. 1948. 150 In822

38549 SCHMIDT, E. *Libellula melli* n. sp., eine der *L. depressa* L. verwandte neue art aus Süchina. Opuscula Ent. 13: 119-124. Ref. 1948. 421 Op7

38550 SCHOFFENIELS, E. Notes sur les Odonates de Belgique. 3. Soc. Ent. de Belg. B. & Ann. 84: 169-174. Aug. 31, 1948. 420 B41

38551 SEGUY, E. Les poux. Entomologiste 4: 137-139. May/Aug. 1948. 421 En814



- 38552 SMITH, F. F. DDT and other synthetics for control of gladiolus thrips [Taeniothrips simplex]. J. Econ. Ent. 41: 955-959. Ref. Dec. 1948. 421 J822
- 38553 STEINIGER, F. Eine weitere beobachtung zur frage des läusestreuens. Anz. f. Schädlingsk. 21: 27-28. May 1948. 421 An9  
Pediculus humanus corporis.
- 38554 TINKHAM, E. R. Haunts and habits of the dragonfly Oploniaeschna armata. Ent. News [Philadelphia] 60: 15-17. Jan. 1949. 421 En88
- 38555 URBANŃSKI, J. Krytyczny przegląd ważek (Odonata) Polski. Critical review of dragon-flies (Odonata) of Poland. Lublin. U. M. Curie-Skłodowskiej. Ann. Sect. C 3: 289-317. Ref. Sept. 20, 1948. 512 L96Ac  
English summary.
- 38556 WILLIAMS, C. L. The control of murine typhus with DDT. Mil. Surg. 104: 163-167. Mar. 1949. 448.8 M59  
Control of fleas.

#### AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

#### GENERAL AND MISCELLANEOUS

- 38557 AYRES, W. A. Farm ponds promise big dividends. Natl. Grange Monthly 47, i. e., 46(3): 3. Mar. 1949. 6 N215  
Chiefly construction.
- 38558 BROTHERTON, R. A. Land surveys. Timber Prod. Assoc. B. 69: 8-9. Dec. 1948. 99.9 T482B
- 38559 BRUCE, J. Iowa's rural roads wait for improvement. Iowa Agriculturist 47(7): 9. Feb. 1949. 6 Io9
- 38560 CAMPBELL, L. E., and SCHOENLEBER, L. G. Ultrasonics and its application to agriculture. Farm Electrification 3(1): 22-28. Ref. Jan./Feb. 1949. 335.8 F224
- 38561 CROM, R. About farm fires! In Iowa, the number is decreasing as a result of study and education. Iowa Agriculturist 47(7): 13. Feb. 1949. 6 Io9
- 38562 DOSSIN, C. D. An efficient lay-out saves labor: whether you are starting a commercial poultry farm or revamping your present farm, these pointers will help. Amer. Poultry J. 80(3): 7, 22-23. Mar. 1949. 47.8 Am32
- 38563 EMERSON, A. W. A pond benefits the farmer and the dealer. Impl. & Tractor 64(5): 44-45, 66, 114. Mar. 5, 1949. 58.8 W41
- 38564 HASWELL, J. R., BURRESS, C. G., and BINGHAM, C. H. Farm pond building. Pa. State Col. Agr. Ext. C. 320, 20 p. June 1948. 275.29 P38C
- 38565 MCCLELLAND, J. Safety—with sound effects. Ext. Serv. Rev. 20: 34-35. Feb. 1949. 1 Ex892Ex
- 38566 MCNAIR, L. M. Make safety part of the project. Farm Safety Rev. 7(2): 12-13. Mar./Apr. 1949. 449.8 F22
- 38567 MARTIN, G. E. Farm ponds. Tenn. Agr. Col. Ext. P. 238, rev., 16 p. June 1948. 275.29 T25  
Includes construction.
- 38568 MAYRHOFER, W. Der bauer und die strasse. Kärntner Bauer 99: 14-15. Jan. 15, 1949. 19 K14
- 38569 NATIONAL FIRE PROTECTION ASSOCIATION. Gasoline on the farm. Boston, 1948. 4 p., folder. 296.6 N21G  
Accident prevention.
- 38570 NEUBAUER, K. Unfallverhütung bedeutet erfolg. Salzburger Bauer 4(5): 4-5. Feb. 3, 1949. 19 Sa3
- 38571 RIZZO, S. L. Safety above all! Agricultural machines and accidents. (In Italian.) Terra e Sole 77: 20-21. Jan. 1949. 16 T273
- 38572 SCHÄPERCLAUS, W. Getreidereinigungsabfälle (unkrautsamen), ein wertvolles futtermittel für die karpfenteichwirtschaft. Tierzucht 2: 150-152. Oct. 1948. 49 T443

- 38573 SKACHKOV, N. Fireproofing wooden roofs. (In Russian.) Sel'sk. Stroitel' 3(4): 10-12. July/Aug. 1948. 296.28 Se4
- 38574 SOWDER, A. M. Clean up for safety's sake. Farm Safety Rev. 7(2): 4-5. Mar./Apr. 1949. 449.8 F22
- 38575 TINDALL, C. How handy can a farmstead be? Mo. Ruralist 90(3): 4, 30. Feb. 12, 1949. 6 R8891
- 38576 VAN KLEECK, A. Fire-retarding coatings. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1280, rev. 11 p. Dec. 1948. 1.9 F761R
- 38577 WALTNER, E. How to have power tools—and fingers, too! Successful Farming 47(3): 113-116. Mar. 1949. 6 Su12
- 38578 WHITE, R. G. Change to easier "choring." Wyo. Stockman-Farmer 55(3): 3, 19. Mar. 1949. 6 W992  
Farmstead layout.
- 38579 WORCESTER, C. Gadgets that save lives. Farm Safety Rev. 7(2): 3. Mar./Apr. 1949. 449.8 F22

#### FARM MACHINES AND EQUIPMENT

- 38580 ANDERSON, K. W. Considérations générales sur les recherches concernant le machinisme agricole. Mach. Agr. Mod. 3: 18-19. (Concl.) Jan. 1949. 58.8 M183
- 38581 BALLU, T. Machines agricoles. Ed. 2. Paris, Baillière, 1948. 591 p. (Encyclopédie de Mécanique Appliquée) 58 B21M
- 38582 BARNARD, J. D. Supplying custom work to farmers as an aid to the production of canning crops. Canning Trade 71(29): 56, 58. Feb. 7, 1949. 286.83 T67  
Supplying of equipment to farmers.
- 38583 BOXLER, B. Rationalisierung bei der herstellung und reparatur landwirtschaftlicher maschinen. Landtechnik 3: 463-471. Dec. 1948. 58.8 L235
- 38584 CHOLLET, E. Les explosifs agricoles. Paysan Franç. 24(374): 16. Feb. 1949. 14 P29
- 38585 CRANE, R. L., comp. Save precious time, steps and money with 100 farm labor savers. Ed. 2. New York, Greenberg, 1948. 116 p. 58 G852
- 38586 ENGELHARD, J. Les démonstrations betteravières de Mormant. Monit. de la Méc. Rurale 41: 307-310. Nov. 1948. 58.8 M74  
Mechanization of sugar beet production by the Institut Technique de la Betterave Industrielle.
- 38587 FARINA, A. Agricultural machinery in Italy and in the world. (In Italian.) Terra e Sole 77: 7-10. Jan. 1949. 16 T273
- 38588 FRANCE. COMMISSARIAT GENERAL DU PLAN DE MODERNISATION ET D'EQUIPEMENT. Troisième rapport semestriel sur la réalisation du plan de modernisation et d'équipement; résultats au 30 juin 1948. Paris, 1948. 138 p. 58.9 F84
- 38589 HARPER, A. Sobre vivir en el mañana o morir de hambre: una investigación sobre el mercado de los tractores y la mecanización de la agricultura en Cuba. Agronomía [Habana] 8(12): 6-9, 30. Dec. 1948. 8 C893
- 38590 HAWTHORN, F. Handling chopped forages on the farm. Agr. Engin. 30: 127-128. Mar. 1949. 58.8 Ag83
- 38591 HILL, M. D. Farm mechanization has made farming a big business. Impl. & Tractor 64(6): 68, 72. Mar. 19, 1949. 58.8 W41
- 38592 HOOGLAND, E. J. A. Mechanization and pasture management. (In Dutch.) Boer en Tuinder 3(113): 4. Mar. 5, 1949. 12 B632
- 38593 INTERNATIONAL HARVESTER COMPANY. Vegetable truck farming. Chicago, 1949? 23 p. 58 In82V
- 38594 JOHNSON, R. E. Stoker-fed steers. Successful Farming 47(3): 142, 144. Mar. 1949. 6 Su12  
Mechanized methods of carrying feed.
- 38595 LENGSELD, J. Neuheiten an landmaschinen auf der DLG-schau. Nachr. f. Beratung u. Ausbildung in der Landw. 1: 17-18. Oct. 1948. 18 N11  
Germany.
- 38596 LERICHE, J. Nouveaux progres dans les appareils. Libération Paysanne 5(202): 3. Feb. 10, 1949. 14 L61



38597 **LESAGE**. Un équipement électrique judicieux améliore les conditions de travail et contribue à développer la production agricole. *Génie Rural* 42: 61-64. Feb. 1949. 58.8 Au8

38598 **LOGIGIANI, L.** Italian agricultural equipment industry and the requirements of our agriculture. (In Italian.) *Terra e Sole* 77: 2-3. Jan. 1949. 16 T273

38599 **LUI, G.** The mechanization of Sicilian agriculture. (In Italian.) *Italia Coop.* 4(5): 1. Feb. 3, 1949. 280.28 It1

38600 **MCHARDY, D. N.** Modern trends in farm machinery. *Power Farmer* 3: 23, 25. Jan. 1949. 58.8 P872

38601 **MCHARDY, D. N.** 30 years of power farming. *Power Farmer* 3: 11, 36. Jan. 1949. 58.8 P872

38602 **MAJORELLE, A.** La motoculture en Tunisie. *Colon Franç. de Tunisie* 59(2082): 2-3. (To be cont.) Jan. 15, 1949. 24 C712

38603 **MARESCALCHI, A.** Mechanization in agriculture. (In Italian.) *Ital. Vinic. ed Agr.* 38: 253-255, 267-269. Nov. 30-Dec. 15, 1948. 95.8 It1

38604 **MASKELL, J. W.** They took the backache out of farming. *Farmers Weekly [London]* 30(2): 39-40. Jan. 14, 1949. 10 F2226

#### Pioneering in farm mechanization.

38605 **MEEK, W. E.** Cotton mechanization—where we stand and where we're going. I. *South. Agr.* 78, i. e. 79 (2): 11, 57. Feb. 1949. 6 So83

38606 **MEINDL, G.** Das landmaschinenwesen in Niederösterreich und Wien. Rückblick 1948 und vorschau 1949. *Landwirtschaft* 1948: 350-352. Dec. 20, 1948. 19 L235

38607 **MIGNOTTE, E.** Évolution et tendances actuelles du machinisme agricole. *Monit. Agr.* 1(50/51): 2, 7. Dec. 25, 1948/Jan. 1, 1949. 14 M744

38608 **MOISEEV, N. F.** Use of machines in potato culture. (In Russian.) *Tekhsociety MTS* 9(40): 1-7. 1948. 58.8 T233

38609 **MULACK, P.** Der landwirt fordert die allzweckmaschine. *Land Wald u. Gart.* 3: 161. July 1948. 18 L22

38610 **NAVRÁTIL, K.** Principles of planned rationalization in agriculture by means of adaptations of farm buildings and machinery. (In Czech.) *Českoslov. Akad. Zeměděl. Vest.* 22: 526-536. Dec. 15, 1948. 19.5 C332

Russian summary.  
Mechanization for the improvement of labor productivity in Czechoslovakia.

38611 **NELSON, B.** How about converting that loader into a hopper? *Through Leaves* 26, i. e. 36(6): 46. Nov./Dec. 1948. 66.8 T41

#### Sugarbeet equipment.

38612 **OXFORD UNIVERSITY. AGRICULTURAL ECONOMICS RESEARCH INSTITUTE.** Mechanization in agriculture. *Westminster Bank Rev.* 1949: 18-19. Feb. 1949. 286.8 W52

38613 **RINGUELET, A.** "La maquina al servicio del hombre"; no obstante felizmente, la agricultura argentina nació mecanizada. *Bolsa de Com., Rosario. Rev.* 36(886): 3-12. Dec. 15, 1948. 287 R71

38614 **ROE, J.** Are your chores this easy? *Successful Farming* 47(2): 34-35. Feb. 1949. 6 Su12

#### Photographs of labor-saving equipment.

38615 **SCHERUGA, F.** Warum drängt uns die gegenwart zur maschine? *Landwirtschaft* 1948: 317-318. Nov. 25, 1948. 19 L235

38616 **SCHIFFINGER, R.** Seilauzüge und seilgeräte. *Landwirtschaft* 22(1/2): 16-18. 1949. 19 L235

38617 **SCHMID, W.** Richtlinien zur berechnung der arbeitskosten mit landwirtschaftlichen maschinen. *Grüne* 77: 52-55. (To be cont.) Jan. 21, 1949. 17 Sch9

38618 **SCHMID, W.** Wartung und instandhaltung der landmaschinen. *Grüne* 76: 1337-1340. Dec. 10, 1948. 17 Sch9

38619 **SKOVGAARD, K.** Mechanization problems. (In Danish.) *Dansk Landbr.* 68: 55-56. Feb. 2, 1949. 280.28 V91

#### Chiefly on cost.

38620 **SOUTH AFRICAN SUGAR ASSOCIATION. MECHANISATION COMMITTEE.** Mechanisation of the sugar farm. *Report No. 2.* So. African Sugar J. Sup. 1949, 18 p. Jan. 1949. 65.8 So8

38621 **TERRY, C. W.** Vacuum unloader for handling forage. *Agr. Engin.* 30: 141-142. Mar. 1949. 58.8 Ag83

38622 **THEBIS, R.** Was man aus alten wagenreifen machen kann? *Saat u. Ernte* 3(12): 5. Dec. 1948. 18 Sa12

38623 **TOLMAN, B.** Machines for spring in the beet fields. *Utah Farmer* 68(13): 6, 26-27. Feb. 26, 1948. 6 D45

38624 **TURNER, A. W.** How far can we go in farm mechanization? *Impl. & Tractor* 64(4): 52-53, 116-117, 120-121, 124, 128-129. Feb. 19, 1949. 58.8 W41

38625 **VALENZUELA NOVILLO, H. L.** La máquinas en la agricultura. *Agros [Cochabamba]* 1: 75-77. Oct. 1948. 9.4 Ag86

38626 **VAN DEN MUIJZENBERG, E.** Equipment in horticulture. (In Afrikaans.) *Boer en Tuinder* 2(87): 10. Sept. 1948. 12 B632

38627 **VILLENA, B. I.** Farm mechanization: the way to rehabilitation. *Agr.-Com.-Indus. Life* 10(12): 21, 31. Dec. 1948. 25 Ag8  
Philippine Republic.

38628 **WALTERS, F. R.** 1949 prospects for farm equipments. *Mag. Wall St.* 83: 576-577, 590. Feb. 26, 1949. 286.8 M27

38629 **WERLBERGER, G.** Unsere österreichische landmaschine-industrie. *Salzburg. Bauer* 4(1): 2-3. Jan. 6, 1949. 19 Sa3

38630 **WILBORN, E. D.** The beltwide cotton challenge. *Farm Impl. News* 69(23): 42-43, 108, 110, 112, 114, 116-117. Nov. 4, 1948. 58.8 F22  
Need for mechanization.

38631 **ZANNONI, I.** The machine and its shadow. (In Italian.) *Humus* 4(12): 14-16. Dec. 1948. 16 H88

#### Animal Husbandry Equipment

38632 **ABIET, P.** L'utilisation rationnelle des machines à traire. *Agr. Prat.* 113: 13-15. Jan. 1949. 14 J82

38633 **AHRBERG, F.** Adequate stock equipment pays on a small ranch, too. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 148, 152. Jan. 1, 1949. 6 R153

38634 **BENEY, P. A.** Take no risks with lamps; their management is not a task which can be delegated safely to an inexperienced assistant. *Poultry World* 84: 99. Feb. 11, 1949. 47.8 P8682  
Heating brooders.

38635 **BROOKS, W. W.** Electric [poultry] watering systems. *N. J. Farm & Gard.* 20(3): 58-59. Mar. 1949. 6 G162

38636 **CALHOUN, J. L.** Electric brooders save pigs. *South. Planter* 109(11): 26, 27. Nov. 1948. 6 So89

38637 **CHAPIN, G.** Push a button, hens are fed. *Successful Farming* 47(3): 66. Mar. 1949. 6 Su12

38638 **DEROSE, R. L.** Electric pig brooders. *Nebr. Agr. Col. Ext. E.C.* 784, rev., 5 p. Feb. 1949. 275.29 N272Ex

38639 **DRENCKHAN, E.** Molkereimaschinenpflege. *Süddeut. Molk.-Ztg.* 69: 87-88, 147-149. Apr. 8, June 17, 1948. 44.8 Su2

38640 **DRENCKHAN, E.** Die reinigung von plattenapparaten aus nichtrostendem stahl. *Süddeut. Molk.-Ztg.* 69: 175-176. July 15, 1948. 44.8 Su2

38641 **DYER, W. C.** The need for a traveling horse-shoer. *Horse and Mule Assoc. Amer. Book [i.e. Leaflet]* 292: 3. 1948? 42.9 H782

38642 **ELLISON, H. F.** Farm tank installation and operation. *Calif. Dairyman* 29(1): 16, 18, 22-24, 33, 37. Feb. 12, 1949. 44.8 C12

38643 **ENGELHARD, J.** Développons l'emploi des machines à traire. *Monit. de la Mécan. Rurale* 41: 341-343. Dec. 1948. 58.8 M74

38644 **ETTINGER, W.** Pigs saved mean profits and brooders save pigs. *Iowa Farm & Home Reg.* 1949: 8 H-9 H. Feb. 6, 1949. 6 Io94

38645 **FISHER, M. R.** Dairy farm equipment necessary for more effective and better sanitation. *South. Dairy Prod. J.* 44(5): 88-89, 94-96. Nov. 1948. 44.8 So83



- 38646 FORD, H. G., BROWDER, W. J. R., and WIL-  
LIAMS, C. F. Electric pig brooder. Ark. Agr. Col.  
Ext. Plan Ser. 18, 2 p. May 1948. 275.29 Ar4Fo
- 38647 GALLI, A. Horseshoeing, past and present. I-  
II. (In Italian.) Riv. di Zootec. 21: 342-345, 395-400.  
Nov.-Dec. 1948. 49 R52
- 38648 GEROSA, G. The electric goad from the point  
of view of the protection of the animals and of the livestock  
industry. (In Italian.) Prog. Vet. 3: 318. Oct. 1, 1948.  
41.8 P942
- 38649 GOODELL, C. J. How to make a rope halter;  
it pays to have an extra supply ahead of needs. Shorthorn  
World 33(21): 30-31. Feb. 10, 1949. 43.8 Sh8
- 38650 HONER, C. J. Experiment station finds new  
sterilizers effective for use on dairy utensils. Miss.  
Farm Res. [Miss. Sta.] 12(2): 3. Feb. 1949. 100 M69Mi
- 38651 JUANA SARDON, A. DE. Accesorios del  
gallinero. Spain. Min. de Agr. Serv. de Capac. y Propag.  
Hojas Divulg. 20, 12 p. Oct. 1948. 15 H68
- 38652 MACALLAN, J. Training horsemen to become  
good farriers. Horse and Mule Assoc. Amer. Book [i.e.  
Leaflet] 292: 1-2. 1948? 42.9 H782
- 38653 MUELLER, W. S., and SEELEY, D. B. New  
developments in sanitizing teat cups. Hoard's Dairyman  
93(21): 807, 812. Nov. 10, 1948. 44.8 H65
- 38654 PARKIN, I. E. Cleaning milking machine vacu-  
um lines. Milk Dealer 38(5): 54-55. Feb. 1949.  
44.8 M595
- 38655 RUPP, E. Protect baby pigs; heat lamp and  
strait-jacket keep them safe. Mo. Ruralist 90(4): 6-7.  
Feb. 26, 1949. 6 R8891
- 38656 SHOTTER, R. Sturdy chicks from outdoor  
brooders. Smallholder 80(2025): 17. Jan. 21, 1949.  
10 Sml
- 38657 SPEER, W. A. Mike, the milking machine.  
Dairymen's Price Rptr. 31(2): 3-5. Feb. 1949.  
280.28 D14
- 38658 STAGNER, A. M. "Chi-Chi" machine ejacu-  
lates sperm. Natl. Chinchilla Breeder 14(12): 10. Feb.  
1949. 412.628 N21
- For examination of sperm and artificial insemination in  
chinchillas and other small animals.
- 38659 STEWART, G. H. Homemade electric brood-  
er. Clemson Agr. Col. S. C. Ext. C. 323, 6 p.-folder.  
Jan. 1949. 275.29 So8E
- 38660 SUMNER, W. D. Weighted shoeing. Natl.  
Horseman 85(3): 36-37. Mar. 1949. 47.8 N21
- 38661 TELFORD, D. A. The modern milking ma-  
chine: operation and maintenance of the Alfa-Laval.  
Power Farmer 3: 14-17. Jan. 1949. 58.8 P872
- 38662 TORRENS PASTOR, A. Popularización del  
nido trampa. Balearic Isl. Diputación Prov. B. de Agr.  
51: 8-9. Dec. 1948. 15 B19
- 38663 TRITSCHER, Warum soviet stillgelegte melk-  
maschinen? Oberöstr. Landwirtschaftsztg. 19(3): 4-5.  
Jan. 15, 1947. 19 Ob23
- 38664 TURNER, D. W. The economics of power  
farming as applied to dairying. So. Austral. Dept. Agr.  
J. 52: 141-143. Oct. 1948. 23 So84
- 38665 WASHINGTON STATE COLLEGE. EXTEN-  
SION SERV. Laying cages for chickens. Wash. State  
Col. Ext. B. 383, 8 p. Jan. 1949. (Poultry Pointers 1,  
rev.) 275.29 W27P
- 38666 WHITFIELD, W. R. Laborsavers for your  
laying house. Successful Farming 47(2): 44, 141-143.  
Feb. 1949. 6 Su12
- Cultivation and Tillage Equipment**
- 38667 BOMFORD, D. R. Mechanized transplanting.  
Gt. Brit. Min. Agr. Agriculture 55: 490-493. Feb. 1949.  
10 G79J
- 38668 CARENA, A. Competition of motor cultiva-  
tors. (In Italian.) Terra e Sole 77: 4-6. Jan. 1949.  
16 T273
- 38669 CROSBIE, C. J. Tractor inter-row cultiva-  
tors. New Zeal. Dept. Agr. B. 307, 28 p. 1948.  
23 N48Bu
- 38670 FAHRINGER, F. Auf den kultivatorzinken  
kommt es an! Pflug 2: 8-9. Jan. 1949. 19 P48
- 38671 GOODALL, G. E. Pneumatic pruners demon-  
strated. Citrus Leaves 28(11): 22. Nov. 1948. 80 C492
- 38672 HORYNOVÁ, A. Economy of labour in vege-  
table growing. (In Czech.) Českoslov. Akad. Zemedel.  
Vest. 22: 509-514. Dec. 15, 1948. 19.5 C332
- English and Russian summaries.  
By using different types of implements.
- 38673 JOHANSSON, A. Tillage equipment of stone  
from Västergötland. (In Swedish.) Lantmannen 33: 134.  
Feb. 19, 1949. 11 L234
- Plows.
- 38674 JOHNSON, A. D. Clifford rotary cultivator.  
Amateur Gard. 65(3376): 17. Jan. 25, 1949. -80 Am13
- 38675 KERN, C. E., JR. Nursery - landscape  
machinery and tools. Arborist's News 14: 5-9. Jan.  
1949. 99.8 Ar14
- 38676 KIND, W. Kommt der elektrisch angetriebene  
pflug? Die entwicklung im in- und ausland. Deut.  
Bauerntech. 2(9): 1-6. Sept. 1948. 58.8 D48
- 38677 LOEWEL, E. L., and MAUCH, A. Erfolgreiche  
bodenbearbeitung im obstbau. Ceres [Hamburg] 1948  
(7/8): 21-22. 80 C332
- Chiefly on equipment.
- 38678 MARBACH, W. Die Crockill-Ackerwalze  
"Igel" und ihre arbeit. Grüne 77: 6-10. Jan. 7, 1949.  
17 Sch9
- 38679 MATHES, A. Maschineller wiesen- und  
ödländumbruch. Deut. Bauerntech. 2(10/11): 24-26.  
Oct./Nov. 1948. 58.8 D48
- 38680 PILE, J. E. Agricultural implement. My  
Gard. 38: 14-16. Jan. 1949. 80 M995
- Adze superior to spade or hoe in breaking up turf.
- 38681 STRELIAEV, V. P. Mechanization of the dig-  
ging up of fruit seedlings. (In Russian.) Sad i Ogorod  
1948(7): 22-23. July 1948. 87 Sal
- 38682 TOPIL'SKII, F. A. Machines for laying out  
new plantations and for care of fruit and berry crops.  
(In Russian.) Tekhsoveti MTS 9(32): 1-6. 1948.  
58.8 T233
- 38683 WEST, W. J. Mechanical cultivation of root  
crops. Scot. Agr. 28: 126-130. Winter 1948/49.  
10 Sco82So
- 38684 WIETING, C. Northwest bulb growers expe-  
dite jobs with special machinery. Florists' Rev. 103  
(2673): 29-33. Feb. 17, 1949. 80 W41
- Fertilizer and Seed Distributors**
- 38685 BIERMANN. Düngerstreuer auf strohsocken.  
Deut. Bauerntech. 2(9): 18-19. Sept. 1948. 58.8 D48
- 38686 JOHNSON, B. A good planter is a good invest-  
ment. Sugar Beet 8: 22-23. Mar. 1949. 66.8 Su34B
- 38687 SCHMIDT, J. F. A fertilizer spreader for  
coffee plantations. (In Portuguese.) Chacaras e Quintais  
78: 733-734. Dec. 15, 1948. 9.2 C34
- 38688 TRANTER, W. W. Have your potato planter  
ready. East. States Coop. 25(2): 10-12. Feb. 1949.  
280.28 Ea7
- Harvesting Equipment**
- 38689 BELLON, R. Une simplification dans la  
reentrée des fourrages? Bouches du Rhône Agr. 21(985):  
4. Sept. 1, 1948. 14 B662
- 38690 BERG, K. VAN DEN. La récolte du tournesol  
à la moissonneuse-batteuse. Terre d'Oc 30: 531-534.  
Dec. 1948. 14 Ar5
- 38691 COTTIER, K. The elimination of border rows  
in cereal [wheat] trial plots. New Zeal. J. Agr. 77: 486-  
487. Nov. 1948. 23 N48J
- Use of a movable divider fitted to the header harvester.
- 38692 DODGE, D. T. Rotobearer provided by F.F.A.  
for use at Lee, Maine. Agr. Ed. Mag. 21: 210-211. Mar.  
1949. 275.8 Ag8
- Potato topping equipment.
- 38693 DRICOT, C., BRUGGEMANS, and DUFEY.  
Essais du moteur auxiliaire "Mag" 5-6 CV. adapté à  
une moissonneuse-lieuse Massey-Harris n. 16 de 6  
pieds. Equip. Rur. 1: 85-90. July 1948. 58.8 Eq5
- Grain reaper-binder.
- 38694 FELLIS, D. M. Parish machinery pools now  
tackle combines and grass-driers. Farmer & Stock-  
Breeder 63: 459. Feb. 22, 1949. 10 F228
- Buckinghamshire Parish Pools.
- 38695 FOWLER, R. G., Jr. Machinery revolutionized  
for Oregon mint harvests. Sunday Oregonian, Farm,  
Home, Gard. 1949: 6. Jan. 16, 1949. 6 Su7



38696 GIN'KO, G. M. Attachments for combine harvesting of sunflower crop. (In Russian.) Tekhsovet MTS 9(23): 5-8. 1948. 58.8 T233

38697 GLORIFIED picking ladder. Citrus Leaves 29 (3): 8-9. Mar. 1949. 80 C492

38698 HAREN, S. En plaine et surtout en montagne la motofaucheuse est l'engin idéal pour les petites exploitations. J. de la France Agr. 5: 54. Feb. 4/10, 1949. 14 J829

38699 KNOLLE, W. Mechanisierung der zucker-rübenernte. Neue Mitt. f. die Landw. 3: 448. Dec. 5, 1948. 18 N39

38700 KRABBE, N. Combining of seed. (In Danish.) Dansk Frøavl 32: 46-47. Feb. 15, 1949. 61.8 D23

38701 KUZ'MIN, V. Utilization of horse drawn harvesting machines on tractor traction. (In Russian.) Tekhsovet MTS 9(23): 1-4. 1948. 58.8 T233

38702 LADOIS, G. Récolte du maïs avec la moissonneuse-batteuse. Terre d'Oc 30: 529-531. Dec. 1948. 14 Ar5

38703 LARSSON, G. American methods of mowing and harvesting hay. (In Swedish.) Lantmannen 33: 109-110. Feb. 12, 1949. 11 L234

38704 LEONOV, P. Tractor scrapers for straw gathering. (In Russian.) Tekhsovet MTS 9(32): 7-8. 1948. 58.8 T233

38705 MARKS, K. Vorschlag zur Verringerung des gewichts von mähdmaschinenmessern. Deut. Bauerntech. 2(10/11): 23-24. Oct./Nov. 1948. 58.8 D48

38706 MARSHALL, G. Ag engineering graduate student designs new-type grain windrower. Iowa Agri-culturist 47(7): 20-21. Feb. 1949. 6 Io9

38707 PETROV, S. A. Repair of combines by method developed by the All-Union Scientific Research Institute of Agricultural Mechanization and Electrification. (In Russian.) Tekhsovet MTS 9(18): 1-8. 1948. 58.8 T233

38708 PIACCO, R. Prospects for the introduction of mechanized rice harvesters into Italy. (In Italian.) Riscicoltura 36: 218-221, 254-257; 37: 9-15. (Cont.) Oct.-Nov. 1948, Jan. 1949. 59.8 G43

38709 PORTNOV, M. N. Kombain "Stalinet-6" ["Stalinet-6" combine]. Moskva, Sel'khozgiz, 1948. 302 p. (Uchebniki i Uchebnye Posobiia dlia Podgotovki S.-Kh. Kadrov Massovo Kvalifikatsii) 58 P832K

38710 RICHARDSON, M. E. What you need to know when buying a power lawn mower. House Beautiful 91(3): 128-131, 199. Mar. 1949. 296.8 H81

38711 SEDLACEK, G. Les essais en Tchécoslovaquie d'arracheuses de lin. Mach. Agr. Mod. 3: 15-17. Jan. 1949. 58.8 M183

38712 SMITH, H. P., and SORENSON, J. W., JR. Mechanical harvesting of corn. Tex. Agr. Expt. Sta. B. 706, 38 p. Ref. Oct. 1948. 100 T31S

38713 STRUB, H. F. Vom motormäher zur Einachs-landmaschine. Grüne 77: 107-133. Feb. 4, 1949. 17 Sch9

#### Land Clearing Equipment

38714 COX, M. S. Use a root cutting knife where cotton follows alfalfa. Better Farming Methods 21(4): 42, 44. Apr. 1949. 58.8 B46

#### Processing Equipment Used on the Farm

38715 HATT, J. Contracting for land clearance. Power Farmer 3: 12-13. Jan. 1949. 58.8 P872

38716 ARAUJO, A. A. DE. Hay manufacture from native pasture. (In Portuguese.) Rio Grande do Sul. Sec. da Agr. Indús. e Com. Inform. Rural 1(5/6): 24, 22. May 1948. 9.2 R4741

38717 COLLINS, J. E. Hay-driers make top quality hay. South. Planter 110(2): 16, 24. Feb. 1949. 6 So89

38718 DAVIS, G. N. Small lots thresher; compact and easily cleaned suitable for small sized seeds. Calif. Agr. [Calif. Sta.] 3(3): 15. Mar. 1949. 100 C12Cag

38719 FISCHER. Zur künftigen entwicklung der lohdreschmaschine. Drescher u. Pflüger 2(2): 4-5. Feb. 15, 1949. 58.8 D81

38720 HAIBEL, J. Der Allgäuer bauer und sein schwedenreuter. Allgäuer Bauernbl. 16: 336. Dec. 24, 1948. 18 AL53

Hay drying equipment.

38721 HARDY, K. Dry hay on your wagon; dry hay on way to mow. Purdue Agr. 40(5): 5. Feb. 1949. 6 P97

38722 HUSE, S. Chopping and ensilage of kale. (In Norwegian.) Norsk Landbr. 15: 92-93. Mar. 4, 1949. 11 N8122

Equipment.

38723 JONES, T. N., and DUDLEY, R. F. Hay improved by crushing, tests show. Miss. Farm Res. [Miss. Sta.] 12: 1, 8. Jan. 1949. 100 M69Mi

Curing time reduced with use of crushing machines.

38724 KONDRATENKO, E. R. Technical conditions for assembling the units and parts of MK-1100 thresher. (In Russian.) Tekhsovet MTS 9(27): 7-8. 1948. 58.8 T233

38725 MARTIN, V. Facts and fallacies on farm freezers. Southwest. Crop & Stock 3(2): 39. Feb. 1949. 6 So8942

38726 MIGNOTTE, F. Les botteleuses et presses pour pailles et fourrages. Monit. Agr. 2(59): 10. Feb. 27, 1949. 14 M744

38727 NETHERLANDS. COMMISSIE VOOR HET KUNSTMATIG DROGEN VAN GRAS EN ANDERE RUW-VOEDERS. Verslag van de bedrijfsresultaten van gras-drogerijen in 1946 [Report on results in grass drying by G. de Jong and J. L. B. Swart]. 's-Gravenhage, 1947. 23 p. 60.9 N38

Supplement on prices by J. G. Veldink, 8 p.

38728 ORR, N. Which is better—frozen food locker or home freezer? South. Agr. 78, i. e. 79(2): 74. Feb. 1949. 6 So83

38729 POOR, D. B. An adaptation of drying corn with forced air. Agr. Engin. 30: 71-72, 77. Feb. 1949. 58.8 Ag83

38730 SAUDER, O. Lockers vs. home freezers. Ill. Agr. 53(4): 14. Feb. 1949. 6 IL6

38731 SCHEFFTER, H. Und die strohpresen? Drescher u. Pflüger 2(2): 1-3. Feb. 15, 1949. 58.8 D81

38732 SHEDD, C. K. Progress in methods of drying corn. Agr. Engin. 30: 131-133. Mar. 1949. 58.8 Ag83

Equipment.

38733 VINTER, R. A. Storage drying of grain. Gt. Brit. Min. Agr. Agriculture 55: 488-489. Feb. 1949. 10 G79J

Equipment.

#### Repair, Maintenance, and Construction Equipment

38734 BRETT, C. W. Strong and cheap repairs. Farmer & Stock-Breeder 63: 457. Feb. 22, 1949. 10 F228

Repairs by welding.

38735 BRICKWOOD, H. Fitting up a farm workshop. Power Farmer 3: 20-22, 36. Jan. 1949. 58.8 P872

38736 DOPF, K. Pflege landwirtschaftlicher maschinen und geräte im winter. Oberösterr. Landwirtschaftsztg. 20(52/53): 8. Dec. 22, 1948. 19 Ob23

38737 GOWDER, M. T. Farm machinery adjustments, field maintenance, and storage. Tenn. Agr. Col. Ext. P. 286, rev., 43 p. Jan. 1948. 275.29 T25

38738 MORFORD, V. J. Improving our teaching programs in farm mechanics. Agr. Leaders' Digest 30(2): 14-16. Feb. 1949. 275.28 Am3

38739 PIEL-DESRUISSEAU, J., and BRETON, J. F. L'atelier à la ferme et l'organisation du travail. France. Min. de l'Agr. B. Tech. d'Inform. 33: 521-543. Oct. 1948. 14 F844B

38740 REYNOLDS, P. A. Farm mechanization handbook, a manual of the repair and maintenance of farm machinery. London, Temple, 1948. 184 p. 58 R33

38741 SCHULZ, W. G. Save time, save money with farm machine shops. Western Dairy J. 5(4): 22-23, 58-59. Feb. 1, 1949. 44.8 W524

#### Spraying and Dusting Equipment

38742 BALLEREAU, A. Des pulvérisateurs. Pay-san Franç. 24(375): 7. Mar. 1949. 14 P29

38743 BORDEN, A. D. Partial concentrates for air-blast sprayers. Material cost reduced. Amer. Fruit Grower 69(2): 28, 47. Feb. 1949. 80 G85

38744 ENGSTEDT, F. Modern spraying machines. (In Swedish.) Sveriges Pomol. För. Fruktodlaren 1948: 134-136. 86 Sv2F



- 38745 GOWDER, M. T., and ANDES, J. O. Weed spraying equipment. *Tenn. Agr. Col. Ext. P.* 308, 8 p. June 1948. 275.29 T25
- 38746 JACOBS, A. Les pulverisateurs. IV. *Rev. de l'Agr.* 1: 921-952. *Ref. Nov./Dec.* 1948. 13 R322
- 38747 LATTNER, E. J. What's wrong with weed sprayers. *Farm Impl. News* 69(23): 38-39, 98. Nov. 4, 1948. 58.8 F22
- 38748 MARSHAL, J. High speed concentrate sprayer will cut costs and provide insect control. *Country Life [Vernon]* 33(2): 9-10. Feb. 1949. 7 C832
- 38749 MEISAKHOVICH, I. A. A. ORM knapsack dust-er. (In Russian.) *Sad i Ogorod* 1948(7): 64-65. July 1948. 87 S41
- 38750 MESERVE, A. W. Limitations of mist blow-ers. *Arborist's News* 14: 21-28. Mar. 1949. 99.8 Ar14
- 38751 PENNEY, F. C. Air stream sprayers on trial in western American orchards. *Grower [London]* 31: 154-155. Jan. 22, 1949. 286.83 M34
- 38752 POTTS, S. F. Mist-blower application of con-centrated sprays. *Natl. Shade Tree Conf. Proc.* 24: 134-138. 1948. 99.9 N218
- 38753 SIDWELL, R. W. Spraying equipment. *Ama-teur Gard. Ann.* 1949: 25. 80 Am12
- 38754 THOMSEN, E. G. Sprayers again. *Soap & Sanit. Chem.* 25(2): 131, 133, 143, 145. Feb. 1949. 307.8 S42

#### Vehicles

- 38755 ARANDA HEREDIA, E. Tractors in Spain. *Power Farmer* 3: 101. Mar. 1949. 58.8 P872
- 38756 BAIKOV, N. A. New repair dimensions of parts for SKHTZ tractor on wheels. (In Russian.) *Tekhsociety MTS* 9(33): 1-5. 1948. 58.8 T233
- 38757 BALLU, T. Quelle orientation doit-on donner à la motoculture? *Monit. Agr.* 2(59): 8. Feb. 27, 1949. 14 M744
- Tractors.
- 38758 BELL, L. J. "Like a Victorian lady with a bustle." *Farmers Weekly [London]* 30(8): 44. Feb. 25, 1949. 10 F2226
- Two-wheel drive tractor.
- 38759 BELL, L. J. Where tyre meets earth. *Farmers Weekly [London]* 30(2): 41, 43. Jan. 14, 1949. 10 F2226
- Tractor tires.
- 38760 BERGE, O. I. Wide-tread wagon. *Hoard's Dairyman* 93(21): 810. Nov. 10, 1948. 44.8 H65
- 38761 BORONOV, P. How to secure high quality repair of connecting rod bearings. (In Russian.) *Tekhsociety MTS* 9(31): 1-8. 1948. 58.8 T233
- 38762 BUZULUKOV, P. Use of ethyl benzene in machine-tractor stations. (In Russian.) *Tekhsociety MTS* 9(33): 6-8. 1948. 58.8 T233
- As fuel for automobiles.
- 38763 BUZULUKOV, P. A. Experiment in utilizing C-80 [caterpillar] tractor. (In Russian.) *Tekhsociety MTS* 9(17): 1-5. 1948. 58.8 T233
- 38764 CHRISTEN, T. P., JR. Tractors need special care in winter weather. *Ohio Farmer* 203(3): 24-25. Feb. 5, 1949. 6 Oh3
- 38765 CHUNIKHIN, V. Restoration of coaxial mechanism and basic parts in wheeled tractors. (In Russian.) *Tekhsociety MTS* 9(29): 7-8. 1948. 58.8 T233
- 38766 COLIN, G. Le pneu a apporté à l'agriculteur de grandes facilités de travail. En particulier, il ne dé-fonce pas les chemins ruraux. *Génie Rural* 42: 65-68. Feb. 1949. 58.8 Au8
- 38767 COLOMBINI, D. An expense largely repaid; putting rubber tires on agricultural vehicles. (In Italian.) *Allevatore* 4(45): 2. Nov. 7, 1948. 49 AL55
- 38768 DESFARGES, P. La hausse des carburants. *Bois et Scieries* 55: 90-91. Jan. 27, 1949. 99.81 B632
- 38769 DE VILLIERS, A. J. Care of the tractor. (In Afrikaans.) *Landbouweekblad* 30(1534): 49, 72. Dec. 8, 1948. 24 L232
- 38770 DIERFELD, G. F. Pflege und instandsetzung der bremsen von ackerschleppern. *Deut. Bauerntech.* 2(10/11): 26-30. Oct./Nov. 1948. 58.8 D48
- 38771 DINKLA, P. E. Maintenance and repair of the Trusty-tractor. (In Dutch.) *Tuinbouw* 4: 20-22. Jan. 1949. 80 T815
- 38772 DRUCE, P. C. Tractor operating costs. *Agr. Gaz. N. S. Wales* 59: 622-624, 630. Dec. 1, 1948. 23 N472
- 38773 DUFFEE, F. W., and HODGES, L. H. A gen-eral purpose farm wagon rack. *Wis. Agr. Expt. Sta. Spec. B.* 1, 23 p. Apr. 1948. 100 W75S
- 38774 ENGELHARD, J. Un intéressant tracteur de moyenne puissance. *Rustica* 22: 128-129. Feb. 13, 1949. 14 R92
- 38775 ENGELHARD, J. Et voici la preuve qu'il s'agit de tracteur. *Rustica* 22: 97, 102. Jan. 30, 1949. 14 R92
- 38776 ERICSON, F. L. Personal benefits may be bought too dear; an analysis of farm hauling costs. (In Swedish.) *Lantmannen* 32: 819-821. Dec. 11, 1948. 11 L234
- Horses versus tractors.
- 38777 FALLOLA, C. Los neumáticos en la agricul-tura. *Agricultura [Madrid]* 17: 553-563. Dec. 1948. 15 Ag84
- 38778 FARM IMPLEMENT NEWS CO. The tractor field book with power farm equipment specifications, 1948-49. Chicago, 1948. 320 p. 58 T672
- 38779 FISCHER, K. H. Der leistungsstand von luftreifen-ackerwagen. *Landtechnik* 3: 474. Dec. 1948. 58.8 L235
- 38780 GARCÍA GOMEZ, L. El tractor en el campo. *Ager* 44: 134-138. Aug. 1948. 33.23 Ag3
- 38781 GIN'KO, G. M. Custody of machine-tractor park of machine-tractor stations. (In Russian.) *Tekhsociety MTS* 9(28): 1-7. 1948. 58.8 T233
- 38782 HALLER, R. Die konstruktive entwicklung des landwirtschaftsschleppers; ein internationaler vergleich. *Kurzbrieft. Ernähr. u. Landw.* 10, D II 3, 2 p. Oct. 1948. 281.8 K96
- 38783 HARMANSON, L. J., JR. Restricting regula-tions threaten free use of trucks in agriculture. *Dairy-men's League News* 33(4): 24. Feb. 22, 1949. 44.8 D1432
- 38784 HILAIRE. Rapport sur la distribution d'es-sence et des pneumatiques. *Crémierie Franç.* 95: 21-22. Jan. 15/20, 1949. 44.8 C867
- 38785 HOARE, E. R. The type of machine the grow-er needs. *Grower [London]* 31: 198-199. Jan. 29, 1949. 286.83 M34
- Garden tractors.
- 38786 HODGES, L. H. The design of a general-pur-pose farm wagon rack for mechanical unloading. *Agr. Entin.* 30: 124-126, 128. Mar. 1949. 58.8 Ag83
- 38787 HØEG, M. Correct lubrication of tractors. (In Danish.) *Dansk Landbr.* 68: 51-52. Jan. 27, 1949. 280.28 V91
- 38788 JIRIKOWSKI, G. Gedanken um den schlittenbau (beschreibung der drei idealsten schlittenformen). *Landarbeiter-Archiv.* 3: 326-331. Nov. 1948. 283.8 L23
- 38789 KRANICK, F. These garden tractors work all winter; these half-pint power units not only shovel snow from drives—they're a source of emergency power. *Successful Farming* 47(2): 98. Feb. 1949. 6 Su12
- 38790 LALANNE. Il vous faut un tracteur; comment le choisir? *Génie Rural* 42: 13-15. Jan. 1949. 58.8 Au8
- 38791 LANNEHOA, F. Il vous faut un tracteur; com-ment le choisir? *Génie Rural* 42: 51-53. Feb. 1949. 58.8 Au8
- 38792 LARUE, P. Sur le prix d'usage d'un tracteur agricole. *Agr. Prat.* 112: 393. Nov. 1948. 14 J82
- 38793 LEVITSKII, I. S., and POTAPOV, K. P. Mag-netization of SS-4 magneto rotors. (In Russian.) *Tekhsociety MTS* 9(19): 1-8. 1948. 58.8 T233
- 38794 MOODY, J. D. Power-speed-convenience-economy; all that and more with a power gardener. *Amer. Poultry J.* 80(4): 18, 20-24. Apr. 1949. 47.8 Am32
- Garden tractors.
- 38795 MULLINS, J. Butane use triples on Plains farms. *Southwest. Crop & Stock* 3(2): 11, 48. Feb. 1949. 6 So8942
- 38796 NOHR, A. Die entwicklung der maschinen-ausleihstellen in Mecklenburg. *Deut. Bauerntech.* 2 (10/11): 19-21. Oct./Nov. 1948. 58.8 D48
- 38797 O'BRIEN, H. R. Wagon ideas to save work. *Country Gent.* 119(3): 28-29. Mar. 1949. 6 C833



38798 PATRICK, R. L. Tractor fuel—buy clean, keep clean, handle clean. Prog. Farmer, Car.-Va. Ed. 64(3): 57, 61. Mar. 1949. 6 P945

38799 PICHUGIN, N., and VORONOV, P. Methods of economizing on fuels. (In Russian.) Tekhsovet MTS 9(20): 1-4. 1948. 58.8 T233

Tractors.

38800 PUKHOVSKII, B. G. Repair of automobile covers and compartments. (In Russian.) Tekhsovet MTS 9(30): 1-8. 1948. 58.8 T233

38801 RABITSCH, J. Vom STEG-jeep zum ackerschlepper. Landw. Wchnbl. 138: 404-406. Dec. 25, 1948. 18 L2338

38802 REED, I. F., and BERRY, M. O. Equipment and procedures for farm tractor tire studies under controlled conditions. Agr. Engin. 30: 67-70. Feb. 1949. 58.8 Ag83

38803 RIBEREAU, F. Le prix des carburants en Tunisie. Colon Franç. de Tunisie 59(2082): 1-2. Jan. 15, 1949. 24 C712

38804 SAAD, A. Power and traction capacity of tractors. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 387-406. Nov./Dec. 1948. 9.2 R324

38805 SAKHAROV, I. M. Suggestions on repair of tractor's electrical equipment. (In Russian.) Tekhsovet MTS 9(39): 1-8. 1948. 58.8 T233

38806 SANIN, L. M., and SPIRIDONOV, P. V. A "Liver" filling pump. (In Russian.) Tekhsovet MTS 9(20): 5-8. 1948. 58.8 T233

For tractor fuel.

38807 SIGHARTNER, A. Stand der kraftfahrzeuge in Oesterreich 1946. Oberöstr. Landwirtschaftsztg. 19(3): 1-2. Jan. 15, 1947. 19 Ob23

38808 SVIRSHCHEVSKIĬ, B. S. Èksploataciia mashinno-traktornogo parka [Utilization of the machine-tractor park]. Ed. 2, rev. Moskva, Sel'khozgiz, 1948. 399 p. 58 Sv32

38809 U. S. CIVIL AERONAUTICS ADMINISTRATION. Industrial flying. Washington, U. S. Govt. Print. Off., 1948. 22 p. 173 C49in  
Includes use of airplanes in agriculture.

38810 WILLIAMS, A. C. Too much idle time; means of reducing the tractor's wasted running hours. Farmer & Stock-Breeder 63: 335. Feb. 8, 1949. 10 F228

38811 WORTHINGTON, W. H. Evaluation of factors affecting the operating stability of wheel tractors. Agr. Engin. 30: 119-123. Mar. 1949. 58.8 Ag83

## FARM STRUCTURES AND RURAL HOUSING

38812 BOUMA, G. J. A. Buildings. IV. (In Friesian.) Friesch Landbouwwblad 46: 22. Jan. 14, 1949. 12 F91

38813 BROUSSE, H. L'état actuel du logement à la ville et à la campagne. Potasse 22: 202-203. Dec. 1948. 57.8 P84

38814 CARTER, D. G. Some concepts of farm building management. Agr. Engin. 30: 65-66, 70. Feb. 1949. 58.8 Ag83

38815 COWLES, M. L., and FRANKE, M. W. Economic phases of rural and urban housing. J. Home Econ. 41: 123-124. Mar. 1949. 321.8 J82

38816 ELITSCHKA. Ist bauberatung notwendig? Landwirtschaft 1948: 353-356. Dec. 20, 1948. 19 L235 Austria.

38817 FRAZER, W. S. Manitoba builds houses. Family Herald & Weekly Star 80(6): 3. Feb. 9, 1949. 7 F21

Includes farm homes and buildings.

38818 HERVEY, C. Barnyards without mud. Farm J. 73(3): 30-21. Mar. 1949. 6 F2212  
Concrete and other hard surfaces.

38819 HESS, H. Einige winke zum bauen von heute. Grüne 77: 25-36. Jan. 14, 1949. 17 Sch9

38820 KIPTENKO, A., and NIKIFOROV, V. Practical suggestions on the construction of a tile roof. (In Russian.) Sel'sk. Stroitel' 3(3): 7-10. May/June 1948. 296.28 Se4

38821 MUTH, M. Richtlinien zum bau von dorfwirtschaftshäusern. Deut. Bauerntech. 2(10/11): 12-14. Oct./Nov. 1948. 58.8 D48

38822 POLONSKII, I. In one district. (In Russian.) Sel'sk. Stroitel' 3(5): 3-5. Sept./Oct. 1948. 296.28 Se4

Rural and collective farm construction in Budenov District of Voronezh Region.

38823 PONIZOVSKII, I. Construction work in winter-time. (In Russian.) Sel'sk. Stroitel' 3(5): 11-13. Sept./Oct. 1948. 296.28 Se4

38824 PONIZOVSKII, I. Organizing the construction of a public building in a village. (In Russian.) Sel'sk. Stroitel' 3(4): 8-10. July/Aug. 1948. 296.28 Se4

38825 TRENARY, O. J. Plans for farm buildings and equipment. Colo. Agr. Col. Ext. C. 2094, 35 p. Feb. 1948. 275.29 C71C

38826 U. S. EXTENSION SERV. Statistical summary of cooperative extension work in new housing 1940-1947. Washington? 1949. 4 p. 1.913 H3St2

38827 ZWEIGLE, K. Wiederaufbau von wohnhaus, stall und scheuer. Württemb. Wchnbl. f. Landw. 115: 398-399. Dec. 18, 1948. 18 W96

## Animal Shelters and Animal Service Buildings

38828 ANDERSON, J. B. Combination cattle-feed shed. Successful Farming 47(2): 154. Feb. 1949. 6 Su12

38829 BAZO, A. Construcción de gallineros. Rev. de Agr. [San José] 21: 71-73, 75-76. Feb. 1949. 8 Es1

38830 BELL, A. J., and MOORE, J. M. Poultry house insulation. World's Poultry Sci. J. 5: 30-33. Jan./Mar. 1949. 47.8 W89

38831 BRUCE, W. H. More about intensive houses. Poultry Farmer [Sydney] 16(25): 6-7. Dec. 18, 1948. 280.28 Or32

38832 CHARTIER, B. Québec, pionnier du poulailler calorifugé. B. des Agr. 45(1): 20-21, 49. Feb. 1949. 7 B872

38833 CLELAND, S. B. Some like loose housing barn, some see big bedding problem. Midland Coop. 16(27): 3, 8. Mar. 9, 1949. 280.28 M58  
For cattle.

38834 COPE, T. Plans for 8 x 8 range house. Pacific Poultryman 53(3): 14. Mar. 1949. 47.8 P112

38835 COPE, T. 7 by 9 lath house; adapted for mild climate, it will hold from 45 to 65 layers in complete confinement, 100 or more hens when used in conjunction with a yard. Pacific Poultryman 52(10): 5, 14-16. Nov. 1948. 47.8 P112

38836 DART, C. His remodeling may save 1½ pigs per sow. Successful Farming 47(3): 91, 92. Mar. 1949. 6 Su12

A remodeled hog house.

38837 ELLIS, F. E. What about cleaning brooder houses. Family Herald & Weekly Star 80(7): 22. Feb. 16, 1949. 7 F21

38838 FINDLAY, J. D. Experiments on the ventilation of cattle byres. J. Agr. Sci. [London] 38: 411-424. Ref. Oct. 1948. 10 J822

38839 FITT, J. A. N. Yard-and-parlour system finds favour in Somerset. Dairy Farmer [Ipswich] 22(3): 31. Mar. 1949. 44.8 D1414

38840 FOSS, E. W. Building and remodeling dairy barns. Maine. Agr. Col. Ext. B. 369, 32 p. Feb. 1948. 275.29 M281B

38841 GORSLINE, E. P. Open house for layers. Calif. Farmer, South. Ed. 190: 109. Jan. 29, 1949. 6 C126A

38842 GOULD, W. Let the barn do the chores. Successful Farming 47(2): 85. Feb. 1949. 6 Su12

38843 HADLOCK, R. W. Extension service uses model to demonstrate dairy barn construction. Better Farming Methods 21(3): 24, 32. Mar. 1949. 58.8 B46

38844 HEWITT, A. C. T. Construction of cattle yards and crushes. Victoria. Dept. Agr. J. 46: 495-499. Nov. 1948. 23 V66J

38845 HURFORD, C. Folds cut out the work. Poultry Farmer [London] 120(3110): 10. Feb. 11, 1949. 47.8 F312

38846 JENKINS, W. R. Building the poultry house. Utah Farmer 68(13): 28. Feb. 26, 1948. 6 D45

38847 JULL, M. A. The moisture problem in laying houses. Md. Poultry Ybk. 1949: 19. 47.9 M36  
Also in World's Poultry Sci. J. 5: 28-29. Jan./Mar. 1949. 47.8 W89

38848 KREUTZER, F. J. A new hatchery design. With no desire for perfection, it sticks to simplicity, yet leaves nothing to be desired where an attractive, smartly designed hatchery-store is concerned. Hatchery & Feed 22(11): 13, 44-45. Nov. 1948. 47.8 H28



38849 LACEY, J. J. Lamb pens save lambs. *Wool Growers News* 14(7): 5. Feb. 1949. 280.28 W882

38850 LIONBERGER, A. It's easy to work with laying cages. *Amer. Poultry J.* 80(3): 51-52, 64-65. Mar. 1949. 47.8 Am32

38851 LOVEGROVE, E., and FROOME, S. Requirements in designing the layout of and buildings for a poultry farm. *West. Austral. Dept. Agr. J.* 2 ser. 25: 213-236. Sept. 1948. 23 W52J

38852 MCGUCKIAN, A. A. Housing for health in pig production. *Farmers J.* 29: 196, 198. (Cont.) Feb. 1949. 10 F2234

38853 MILLER, J. B. Improving cow stalls. *Breeder & Dairyman* 28(1): 8. Feb. 1949. 44.8 H74

38854 MILLER, J. P. Washington 2-story 32'x50' laying house; designed for large flocks, this house features big pens and convenient arrangement. *Poultry Tribune* 55(3): 10, 38. Mar. 1949. 47.8 P8642

Also in *Pacific Poultryman* 53(3): 8-9, 58. Mar. 1949. 47.8 P112

38855 MORETON, E. Arturo chick rearing. *Poultry Farmer [London]* 120(3112): 10. Feb. 25, 1949. 47.8 F312

Heating system.

38856 MORRIS, L., JR. 'T'll stick to the loafing barn.' *Successful Farming* 47(3): 108, 110-111. Mar. 1949. 6 Su12

Remodeled dairy barn.

38857 MOWERY, A. S., SPRAGUE, D. C., and MARTIN, C. L. Dairy stable gutter cleaner. *Sci. Farmer [Pa. Sta.]* 1949: 12. Mar. 1949. 100 P381

38858 MÜLLER, P. Zweckmässige Stalltüren und tore. *Deut. Bauerntech.* 2(9): 14-15. Sept. 1948. 58.8 D48

38859 NAYLOR, H. This two-stall hand milking parlour solves small farmers' T. T. problem. *Dairy Farmer [Ipswich]* 22(2): 17. Feb. 1949. 44.8 D1414

38860 NOTH, H. Fressgitter im rindviehstall. *Deut. Bauerntech.* 2(10/11): 14-18. Oct./Nov. 1948. 58.8 D48

38861 PROCTOR, J. I want elevated wood floors. *Poultry Farmer [London]* 120(3113): 12-13. Mar. 4, 1949. 47.8 F312

38862 QUIGLEY, G. D. Cool houses make greater poultry profits. *Md. Poultry Ybk.* 1949: 21. 47.9 M36

38863 RIPPER, A. A crush for the tuberculin testing of cattle. *West. Austral. Dept. Agr. J.* 2 ser. 25: 259-262. Sept. 1948. 23 W52J

38864 ROBL. Anforderungen an einen zweckmässigen milchviehstall. *Österr. Bauernbündler* 5(3): 4. Jan. 15, 1949. 19 Os7

38865 ROGERS, J. This poultryman won his war on rats. *Successful Farming* 47(3): 154, 156. Mar. 1949. 6 Su12

Use of plywood in the laying house.

38866 RUPP, E. These milking parlors help produce grade-A milk. *Kans. Farmer* 86(4): 4, 34-35. Feb. 19, 1949. 6 K13

38867 RUSSELL, H. G. Housing for big [swine] litters. *Country Gent.* 119(3): 18, 126-130. Mar. 1949. 6 C833

38868 SCHLUGA-TSCHUTTNIG, N. Freilandhaltung und gebäudefrage; gegenmeinung eines anhängers der frielandhaltung zum aufsatz von Architekt Heckl in der "Landtechnik," heft 12, oktober 1948. *Pflug* 2: 14-15. Jan. 1949. 19 P48

38869 SHUTE, J. A. Loose housing of dairy cattle. *Minn. U. Agr. Ext. Farm Business Notes* 312: 3. Jan. 31, 1949. 275.29 M663

38870 SOLOV'EV, E. Wooden floors in the livestock buildings. (In Russian.) *Sel'sk. Stroitel'* 3(5): 14-15. Sept./Oct. 1948. 296.28 Se4

38871 SPECKMAN, R. O. Two-way barn; it was planned for handling cattle on feed and for the dairy herd under same roof. *Successful Farming* 47(2): 89. Feb. 1949. 6 Su12

38872 TEESDALE, L. V., and DUNLAP, M. E. Show farmers the 'whys and hows' of insulation; capture 1949's bumper farm market with sales of dairy barn insulation. *Wood Construct.* 35: 36-37. Jan. 1949. 99.81 W852

38873 TURNER, A. Mobile milking; English system of movable farm milking units. *Austral. Farm & Home* 58: 21. Jan. 1, 1949. 23 Au7

Milking shed on wheels.

38874 U. S. BUR. OF ANIMAL INDUSTRY. Portable pens for raising healthy dairy calves, by L. R. Davis. Washington? 1949. 4 p. 1.972 Z2P83

38875 VANDERSTAR, V. Evolution of a hen house. *Nulaid News* 26(11): 8-9. Mar. 1949. 47.8 N917

38876 WATSON, R. G. Pigs, and how to make them profitable. *Live Stock B.* 43: 25-27. (To be cont.) Jan. 1, 1949. 23 F222

Farrowing and fattening pens.

38877 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Range shelters for Wisconsin flocks. *Wis. Agr. Col. Ext. Stencil C.* 228, rev., 8 p. Nov. 1948. 275.29 W75B

#### Farmhouses and Farmsteads

38878 BIASUTTI, R. Orientation and organization of research on housing and rural architecture in Italy. (In Italian.) *Ricerca Sci.* 18: 1235-1242. Oct. 1948. 475 It1

38879 BIDAULT, J. Comment concevoir les logements d'ouvriers agricoles. Le logement des ouvriers célibataires. Exemple d'un aménagement dans des bâtiments déjà existants. *Génie Rural* 42: 72-75. Feb. 1949. 58.8 Au8

38880 JOHNSON, R. E. Utility room—a farm necessity. *Elect. Dealer* 38(3): 48. Mar. 1949. 335.8 EL226

38881 KOLKER, S. A model project for planning a collective farm village of one hundred farmsteads. (In Russian.) *Sel'sk. Stroitel'* 3(4): 17-19. July/Aug. 1948. 296.28 Se4

38882 KOLKER, S. Model project for planning a collective farm village of 110 farmsteads. (In Russian.) *Sel'sk. Stroitel'* 3(5): 16-18. Sept./Oct. 1948. 296.28 Se4

38883 POLONSKII, I. To put an end to mud huts—urgent problem of rural housing builders. (In Russian.) *Sel'sk. Stroitel'* 3(4): 3-4. July/Aug. 1948. 296.28 Se4

#### Greenhouses and Plant Service Buildings

38884 BRANDON, D. Electric propagating frames. *Amateur Gard.* 65(3378): 20. Feb. 8, 1949. 80 Am13

38885 BRANDON, D. Electrically heated hotbeds. *Amateur Gard.* 65(3375): 14. Jan. 18, 1949. 80 Am13

38886 HITCHINS, P. E. N. Glasshouse heating improvements. *Fruit-Grower* 107: 292-293. Mar. 10, 1949. 80 F941

38887 MCKENNA, P. J. All year around, make your coldframe work. *Horticulture* 27: 83. Mar. 1949. 80 H787

38888 PROCTER, C. Sweeping soot from glass-houses. *Grower [London]* 31: 255. Feb. 5, 1949. 286.83 M34

38889 ROBERTS, B. How to build and use electric hotbed. *Ala. Rur. Elect. News* 2(2): 6, 14. Feb. 1949. 335.8 AL1

38890 TEARE, D. W. Electric hotbeds eliminate hazard from cold snaps. *Ill. REA News* 6(10): 15, 17. Mar. 1949. 335.8 IL62

#### Materials and Methods

38891 BELL, W. Building materials and their use. *W. Va. Agr. Col. Ext. Good Living Ser.* 16, Today's Family Trains Tomorrow's Citizens, Lesson 4, 6 p. 1948? 275.29 W522G

38892 BROWN, P. H. Plywood is plentiful again for new or re-modeled farm homes. *Farm & Ranch Rev.* 45(2): 12-13, 21. Feb. 1949. 7 F223

38893 DALE, A. C., and GIESE, H. Aluminum for farm buildings. *Iowa. State Col. Agr. Ext. Iowa Farm Sci.* 3(8): 3-5. Feb. 1949. 275.28 Io94

38894 EZERSKII, A. Production of 'bemit.' (In Russian.) *Sel'sk. Stroitel'* 3(5): 5-8. Sept./Oct. 1948. 296.28 Se4

Building material made from straw.

38895 MOLANDER, E. G. Results of research on lightweight concretes. *Agr. Engin.* 30: 129-130, 133. Mar. 1949. 58.8 Ag83

With discussion by J. S. Boyd, p. 133.

38896 MÜLLER, S. Der lehmabau im landesbezirk Württemberg und seine natürlichen Grundlagen in allgemeiner übersicht. *Statis. Montash. Württemberg-Baden* 2: 310-314. Nov. 1948. 265 St24



38897 ROSSI, R. P. Cement in the construction of shelters for livestock. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 94: 213-214. Nov. 30, 1948. 16 C72

38898 SCHAUDER, R. A new roofing material; how corrugated aluminium sheets should be used on the farm. *Farmer's Weekly [Bloemfontein]* 76: 95. Jan. 12, 1949. 24 F225

#### Storage Structures

38899 BLAKEMAN, M. H. Storage wall—gardener style. *Amer. Home* 41(4): 128, 130. Mar. 1949. 80 Am313

38900 BLANES, F. Como construir un estercolero. *Balearic Isl. Diputación Prov. B. de Agr.* 51: 9-10. Dec. 1948. 15 B19

38901 GUZMÁN C., J. M. Silo subterráneo cilíndrico. *Suelo Tico* 1: 141-143. Sept. 1948. 8 Su2

38902 HOLMQVIST, N. Högsilokonstruktioner [Construction of high silos]. Sweden. *Statens Forskningskom. för Lantmannabyggnader*. Meddel. 16, 36 p. 1948. 296.9 Sw3

English summary.

38903 KIRK, D. E. A circular hay keeper. *Oreg. Agr. Expt. Sta. C. Inform.* 449, 5 p. Feb. 1949. 100 Or3C

38904 NATIONAL ASSOCIATION OF SILO MANUFACTURERS. Proceedings, thirty-sixth annual convention, November 29-30, 1948, Chicago, Illinois. Norwich, N. Y., 1948. 158 p. 60.79 N21

38905 SEIBERT, J. E. Temporary silos to the rescue! *Ohio Farmer* 203(3): 22. Feb. 5, 1949. 6 Oh3

38906 SERS, J. Pour barder vos hangars. *Rustica* 22: 7. Jan. 2, 1949. 14 R92

38907 SILAGE and silos. *Natl. Assoc. Silo Mfrs. Proc.* 36: 113-135. 1948. 60.79 N21

#### Walls and Fences

38908 CARMICHAEL, J. M. Thorny wire fence changed Nation's history for all Western States. *Natl. Live Stock Prod.* 27(6): 8-9, 26. Mar. 1949. 280.38 N21

38909 MOODY, J. D. Fencing is profitable. *Amer. Poultry J.* 80(3): 8, 30-31. Mar. 1949. 47.8 Am32

38910 NAGORSKI, N. Fences from clay in the woodless regions. (In Russian.) *Sel'sk. Stroitel'* 3(3): 15-16. May/June 1948. 296.28 Se4

38911 VALSET, T. How much does it cost to fence out deer and elk. (In Norwegian.) *Norsk Hagetid* 65: 30-31. Feb. 1, 1949. 80 N81

From the orchards.

38912 VLASOV, S. S. Vlasov's method of wall construction. (In Russian.) *Sel'sk. Stroitel'* 3(4): 12-15. July/Aug. 1948. 296.28 Se4

#### FARM UTILITIES

##### Electricity and Electrification

38913 BLACK, S. Manitoba's power program; farmers in the oldest prairie province are now benefitting from long term plans to use the province's hydro resource. *Family Herald & Weekly Star* 80(7): 5, 19. Feb. 16, 1949. 7 F21

38914 BLANCHET, J. L'électricité sur la ferme. *Terre de Chez Nous* 21(19): 9. Feb. 2, 1949. 7 T27

38915 BLANCHET, J. Progrès de l'électrification rurale dans Québec durant la dernière année. *Terre de Chez Nous* 21(1A, 1. e. 23): 10, 18. Mar. 2, 1949. 7 T27

38916 BRANCH, T. P. Do you have inadequate wiring on your farm? *Rur. Ga.* 5(3): 8. Mar. 1949. 335.8 R887

38917 BRANNAN, C. F. Rural electrification in the national farm program. Washington, U. S. D. A., 1949. 9 p. 1.91 A2B73

38918 FORTEZA, B. Electrificación rural. *Balearic Isl. Diputación Prov. B. de Agr.* 51: 4-5. Dec. 1948. 15 B19

38919 GEUS, J. DE. Electric fences and lighting materials. (In Dutch.) *Friesch Landbouwblad* 46: 43. Jan. 21, 1949. 12 F91

38920 HAGGARD, G. W. A cooperative education program. Washington, U. S. Rural Electrification Admin., 1949. 3 p. 1.933 H12

Rural electric cooperatives.

38921 HEMKER, W. D. Electric power boosts profits of "test farm." Facts learned on this Ohio farm about electric power can well be used by farm equipment dealers as proof of how this form of power eliminates work and increases profits. *Farm Equip. Retailing* 7(3): 30, 32. Mar. 1949. 58.8 F2292

38922 JOHNSON, R. E. Electric energy works new wonders for Ohio farmers. *Ohio Farmer* 203(5): 3, 23. Mar. 5, 1949. 6 Oh3

38923 KREGER, R. Don't skimp on wiring. *Farmer [St. Paul], Gen. Ed.* 67(2): 1, 12. Jan. 15, 1949. 6 F2211

38924 LEMIRE, C. P. L'électricité, fidèle serviteur de l'aviculture. *B. des Agr.* 45(1): 22, 50-51. Feb. 1949. 7 B872

38925 MAUVE, J. Applications agricoles de l'électricité. *Monit. Agr.* 1(50/51): 34. Dec. 25, 1948/Jan. 1, 1949. 14 M744

38926 MICILLO, M. Electric power for agriculture. (In Italian.) *Agr. del Mezzogiorno* 4(13): 1. Oct. 25, 1948. 16 Ag854

38927 MORGAN, J. M. Eklutna—number one job in Alaska. *Reclam. Era* 35: 35-38, 46-47. Feb. 1949. 156.84 R24

First report on the Bureau of Reclamation's plans for development of the hydroelectric resources of Alaska. Includes agriculture in the Matanuska Valley.

38928 RĀBININ, B. Elektrifikatsiia ural'skikh kolkhozov [Electrification of the Ural collective farms]. Moskva, Gos. Izd-vo Polit. Lit-ry, 1948. 39 p. 335 R35

38929 ROBINSON, C. Electricity is a good farm hand. *Utah Farmer* 68(12): 6. Feb. 12, 1949. 6 D45

38930 SCHAEENZER, J. P. Rural electrification. Ed. 4, rev. Milwaukee, Bruce, 1948. 338 p. Ref. 335 Schl

38931 SMITH, D. M. How reports can help. *Rural Electrification News* 14(7/8): 18. Feb./Mar. 1949. 173.2 R88Ru

Records of cooperative electric systems.

38932 TURNER, A. W. Looking ahead in crop conditioning. *Rural Electrification News* 14(7/8): 19. Feb./Mar. 1949. 173.2 R88Ru

Electric energy in processing farm crops.

38933 U. S. RURAL ELECTRIFICATION ADMIN. Subject matter for proposed wiring school for cooperative electrification advisers. Washington? 1948. 52 p. 1.933 Su12

38934 VELANDER, E. Continued rural electrification. (In Swedish.) *Joel* 1948: 63. 335.8 J59

38935 WAGNER, C. P. Electricity makes customers. *Northwest Farm Equip. J.* 63(3): 12-13. Mar. 1949. 58.8 F222

38936 WATTS, F. E. Electricity on the farm offers huge sales market; farm equipment retailers logical distributors of equipment designed to raise standard of farm living. *Farm Equip. Retailing* 7(3): 22-24, 26, 28. Mar. 1949. 58.8 F2292

38937 WICKARD, C. R. Rural electrification—a check to monopoly. *Com. & Financ. Chron.* 169: 773, 785. Feb. 17, 1949. 286.8 C73

38938 YOUNG, S. P. Rural electrification in the march of progress. *Agrarian* 8(2): 8. Jan. 1949. 276.8 Ag8

##### Heating, Lighting, and Radiation

38939 BEELER, M. N. Let there be light. *Capper's Farmer* 60(3): 13, 68, 69. Mar. 1949. 6 M693

38940 HUMBERT, W. La lanterne-tempête moderne. *Acclimatation* 76(1): 2. Jan. 1, 1949. 14 Ac2

38941 MAREC, E. Le chauffage électrique du sol en horticulture. *Génie Rural* 42: 11-13. Jan. 1949. 58.8 Au8

38942 WILLANS, K. W. Hot baths from sawdust. *Countryman [Burford]* 38: 247-248. Winter 1948. 281.28 C832

Burning of sawdust for fuel.

38943 WILLIAMS, D. E. Light to see. *Ark. Agr. Col. Ext. C.* 451, 12 p. June 1948. 275.29 Ar4

##### Power Plants, Motors and Engines on the Farm

38944 GOHIN, J. Le gazogène n'est pas mort. *Forêt Franç.* 129: 2. Oct. 1948. 99.8 F7682



- 38945 HOFF, P. R. How to protect your electric motor. *Amer. Agr.* 146: 66. Feb. 5, 1949. 6 Am3
- 38946 LALLOY. Le vent, source d'énergie. *Génie Rural* 42: 78-79. Feb. 1949. 58.8 Au8
- 38947 LEIDL, E. Die explosionsmotore. *Salzburger Bauer* 4(6): 6-7. Feb. 10, 1949. 19 Sa3
- 38948 LENGLEBERT, J. En Algérie l'explosif agricole peut rendre de grands services. *Rustica* 22: 95. Jan. 30, 1949. 14 R92
- 38949 LEROY, A. Un gisement de carburant dans votre ferme. *Vie à la Campagne* 38: 24-25. Jan. 1949. 80 V67  
Manure gas equipment.
- 38950 MAUVE, J. Les moteurs électriques employés en agriculture. *Monit. Agr.* 2(59): 24. Feb. 27, 1949. 14 M744
- 38951 MORTLAND, J. F. Standby power to the rescue when sleet storms stop hatches; private generating plants have proved to be low priced insurance for numerous hatcheries. *Poultry Supply Dealer* 26(3): 14-15, 26. Mar. 1949. 47.8 B11
- 38952 SERS, J. Installation d'élévation d'eau par moulin à vent. *Rustica* 22: 88. Jan. 30, 1949. 14 R92

#### Sewage and Waste Disposal

- 38953 BALLY, J. Hygiène et confort par l'installation d'une fosse septique. *Foyer Rural [Paris]* 12(65): 2. Jan. 23, 1949. 14 F83
- 38954 MARTIN, G. E. Farm sewage disposal by septic tank and absorption lines. *Tenn. Agr. Col. Ext.* P. 307, 16 p. Mar. 1948. 275.29 T25

#### Telephones

- 38955 U. S. RURAL ELECTRIFICATION ADMIN: Percentage of farms with telephones, United States (estimated for January 1, 1949). Washington? 1948? Map. 1.933 P412

#### Water Supply

- 38956 BESNIER. Les populations rurales réclament des adductions d'eau. *Génie Rural* 42: 17-20. Jan. 1949. 58.8 Au8  
France.
- 38957 BROOKS, W. W., and PFEIFFER, C. W. Safe wells for sound water systems. *Ky. Farmer* 85(2): 22. Feb. 1949. 6 F2237
- 38958 GOVIN, L. Alimentation en eau potable des exploitations agricoles. *Génie Rural* 42: 54-58. Feb. 1949. 58.8 Au8
- 38959 HASSENSTEIN, J. Ländliche wasserversorgungen. *Deut. Bauerntech.* 2(10/11): 32-33. Oct./Nov. 1948. 58.8 D48
- 38960 MCPHEE, G., and LUBINUS, L. Water & sewage systems for the farm. *S. Dak. State Col. Agr. Ext. C.* 446, 24 p. Jan. 1949. 275.29 So85
- 38961 MOODY, J. D. Running water works for the poultryman; reduces labor cost, assures better production. *Amer. Poultry J.* 80(2): 4, 24-26. Feb. 1949. 47.8 Am32
- 38962 SCHAUBERGER, V. Why the shortage of food and primary produce? *Trees [Dorchester]* 12: 117-118. Winter 1948. 99.8 T714  
Description of a pumping system.
- 38963 TRISLER, G. E. Uses and limitations of jet water systems. *Agr. Engin.* 30: 88, 90. Feb. 1949. 58.8 Ag83
- 38964 VECCHIO, C. DEL: An economical thermosiphon water heater for use with livestock. (In Italian.) *Riv. di Zootec.* 21: 348-349. Nov. 1948. 49 R52

#### AGRICULTURAL PRODUCTS: PROCESSING, DISTRIBUTION, AND STATISTICS

##### GENERAL

- 38965 ALLEN, M. C. New England—the land of good eating. *New England Grocery & Mkt. Mag.* 17(5): 44-45. Mar. 1949. 286.83 N44A  
The food industry.

- 38966 BALMER, J. R. Les industries agricoles. B. Industries annexes. In *Balmer, J. R. Agriculture et viticulture*, p. 71-76. Neuchâtel (Suisse), 1948. 33.21 B21  
Switzerland.
- 38967 BOERMA, A. H. The food supply in relation to Europe. (In Dutch.) *Voeding* 9: 223-232. Nov. 15, 1948. 389.8 V85
- 38968 BOYD, G. A. Production in French West Indies of foodstuffs declined last year. *Foreign Trade* 5: 391-394. Feb. 19, 1949. 286.8 C162
- 38969 BRUSSELS. EXPOSITION DES INDUSTRIES ALIMENTAIRES. Catalogue officiel, 2d, 1948. 1948. 119 p. 389 B83
- 38970 CALCUTTA. COMMERCIAL MUSEUM. We and our south-eastern neighbours. Calcutta, 1948. 52 p. 280.18 C12  
Includes the food situation.
- 38971 CHAMBERS, S. B. Food production. *Farmer [Kingston]* 52: 223-224. Oct./Dec. 1948. 8 J223  
Food situation.
- 38972 COUCH, J. F. Selected references to the literature on rutin, vitamin P, flavanols and related subjects. *U. S. Bur. Agr. and Indus. Chem. AIC-192*, 34 p. Dec. 1948. 1.932 A2Ag82
- 38973 DODD, N. E. The United Nations and the world's food. *Food and Agr. Organ. United Nations. I/Misc./50*, 5 p. Oct. 4, 1948. 389.9 F735Im
- 38974 DOLS, M. J. L. Food and food supply. (In Dutch.) *Voeding* 9: 216-223. Nov. 15, 1948. 389.8 V85
- 38975 DUNN, W. R. A credit man looks at conditions in the food industry. *Credit & Financ. Mgmt.* 51(3): 11-13. Mar. 1949. 284.8 C86
- 38976 ENOUGH food to go around? *Fed. Council Churches Christ Amer. Dept. Res. and Ed. Inform. Serv.* 28(5), 4 p. Jan. 29, 1949. 280.9 F31
- 38977 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Conference of FAO, 4th session, statement by James M. Dillon, Minister of Agriculture, Ireland, before Commission I, 17 Nov. 1948. Washington? 1948. 3 p. 389 F738C
- 38978 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. United States delegation, FAO conference, 4th session, Washington, D. C., Nov. 1948, statement by U. S. spokesman in opening of Commission I, FAO conference. Washington? 1948. 4 p. 389 F738U
- 38979 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. United States delegation, FAO conference, 4th session, Washington, D. C., Nov. 1948, statement by U. S. spokesman in opening of Commission II, FAO conference. Washington? 1948. 4 p. 389.9 F735U
- 38980 GABOTTO, L. New paths. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 95: 4-5. Jan. 15, 1949. 16 C72  
Production of new crops for industry.
- 38981 GAY, K. Zweijahresplan und kontrolle. *Versorgung* 3: 59-60. Nov. 1948. 280.8 V61  
Russian zone of Germany.
- 38982 GRAF, W. Ein jahr zusatzverpflegung nach Befehl 234. *Versorgung* 3: 50-51. Nov. 1948. 280.8 V61  
Russian zone of Germany.
- 38983 HALL, C. J. J. VAN, and KOPPEL, C. VAN. De landbouw in de Indische Archipel. Deel IIa. Voedingsgewassen en geneesmiddelen [Agriculture in the Indian Archipelago. Pt. IIa. Food and drug plants]. 's-Gravenhage, 1948. 905 p. Ref. 37 H14L
- 38984 HATTON, J. G. Food versus population; a hungry, over-populated world predicted. *Tasmanian Fruitgrower & Farmer* 24(305, 1. e., 306): 29. Dec. 1948. 23 T185
- 38985 IYER, S. V. D. The food crisis: a plea for intensive survey of resources for maximising production. *Madras Agr. J.* 35: 395-398. Dec. 1948. 22 M262
- 38986 KEMENY, V. Agriculture as a purveyor to the candy industry. (In Italian.) *Humus* 4(11): 25-27. Nov. 1948. 16 H88
- 38987 KENT-JONES, D. W. Bread and its influence on history. (Sum.) *Chem. and Indus.* 1949: 24. Jan. 8, 1949. 382 M31C
- 38988 LAMPITT, L. H. Food science in evolution. (Sum.) *Chem. & Indus.* 1949: 123-124. Feb. 19, 1949. 382 M31C



38989 LEGGETT, W. F. Even breakfast can be romantic. *Pract. Home Econ.* 27: 156. Mar. 1949. 321.8 H752

Food history.

38990 LOUWES, S. L. The food question in the Netherlands. (In Dutch.) *Voeding* 9: 232-239. Nov. 15, 1948. 389.8 V85

38991 MCLANE, P. V. Food production in New Zealand shows little overall change in past decade. *Foreign Trade* 5: 337-340. Feb. 12, 1949. 286.8 C162

38992 MANSHOLT, S. L. Political aspects of the food supply. (In Dutch.) *Voeding* 9: 209-216. Nov. 15, 1948. 389.8 V85

38993 MOLTCHANOVSKY, V. Les tâches urgentes de l'industrie alimentaire soviétique. *Agence France-Presse. Inform. et Doc.* 222: 13-14. Jan. 15, 1949. 280.9 Ag3

38994 PARKER, L. T. New court rulings clarify your legal liabilities. *Food Indus.* 21: 329-330, 421-423. Mar. 1949. 389.8 F737

38995 PATWARDHAN, V. N. Nutrition and food supplies: a problem. *Planters' Chron.* 1948(sup.): 35-37. 22 P693

Chiefly the food situation in India.

38996 PIPER, W. E. New trends in the 1949 produce deal. *New England Grocery & Mkt. Mag.* 17(5): 33-35. Mar. 1949. 286.83 N44A

Food products.

38997 ROBBINS, H. B. Food outlook. *N. J. Farm Econ. Situation* 1949: 22-23. Jan./Mar. 1949. 275.28 N4622

38998 SEARS, P. B. Industrial resources and environmental balance. In *American Council on Education. Committee on Southern Regional Studies and Education. Scientists look at resources*, p. 113-118. Lexington, 1948. 280.002 Am3S

Food problem in relation to population.

38999 STAMP, L. D. Feeding the world's peoples. *Westminster Bank Rev.* 1949: 1-6. Feb. 1949. 286.8 W52

39000 STREIT, O. Spezialkulturen als rentabler betriebszweig der landwirtschaft. *Kärntner Bauer* 99: 35-36. Feb. 1, 1949. 19 K14

39001 UNITED NATIONS. SECRETARIAT. DEPT. OF ECONOMIC AFFAIRS. Post-war shortages of food and coal. *Lake Success, N. Y.*, 1948. 37 p. 389 Un393

39002 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Coordination of international food management within the United States Government 1941-1948. Washington, 1948. 56 p. 1.943 C78

39003 VEEN, A. G. VAN. Food problems in south-east Asia and the Tropics, especially Indonesia. (In Dutch.) *Voeding* 9: 268-275. Dec. 15, 1948. 389.8 V85

39004 ZIEGELMAYER, W. Das deutsche eiweissproblem. I. *Kurzbriefe f. Ernähr. u. Landw.* 10, B I 3, 8 p. Oct. 1948. 281.8 K96

39005 ZIMMERMAN, M. M. Surveying Europe's food picture. 2. Sweden. *Super Mkt. Merchandising* 14 (3): 62, 64, 66-67, 70, 73. Mar. 1949. 389.8 Su7

#### ANALYSIS AND COMPOSITION

39006 BAYES, A. L., FLOOK, E. R., and GRAHAM, G. B. Gasometry—for "sharper" control of food quality. *Food Indus.* 21: 310-312, 424-427. Mar. 1949. 389.8 F737

39007 COURTOIS, J., and PEREZ, C. Recherches sur la phytase. XI. Essais en vue d'obtenir des matières premières dont l'activité phytasique initiale a été artificiellement accrue. *Soc. de Chim. Biol. B.* 30: 631-637. Ref. Sept./Oct. 1948. 383 Sol

39008 CULLER, D., WEISER, H., and WITMAN, E. D. Effect of 2,4-dichlorophenoxyacetic acid upon the morphological and physiological characteristics of certain microorganisms associated with food spoilage. *Food Res.* 13: 482-490. Nov./Dec. 1948. 389.8 F7322

39009 CUTHBERTSON, W. F. J. Recent developments in microbiological methods. *Analyt. Chim. Acta* 2: 761-769. Ref. Dec. 1948. 381 An1

39010 HENING, J. C. Flavor evaluation procedures. *N. Y. (State) Agr. Expt. Sta. Tech. B.* 284, 20 p. Ref. Nov. 1948. 100 N48

39011 HOOGLAND, P. L. Methods for the determination of some trace-elements in biological material. *Analyt. Chim. Acta* 2: 831-838. Ref. Dec. 1948. 381 An1

Summary in French and German.

39012 HORN, M. J., JONES, D. B., and BLUM, A. E. Microbiological determination of leucine in proteins and foods. *J. Biol. Chem.* 177: 697-701. Ref. Feb. 1949. 381 J824

39013 OSER, B. L. Food. *Analyt. Chem.* 21: 216-227. Ref. Feb. 1949. 381 J825A

Analysis.

39014 RAMEAU, J. T. L. B., REITH, J. F., and DEYS, W. B. Some investigations about the microdetermination of lead in plant material. *Analyt. Chim. Acta* 2: 823-829. Ref. Dec. 1948. 381 An1

Summary in French and German.

39015 REIS, F. Materialkunde für den konditor- und bürgerlehrer. Stuttgart, Matthes, 1948. 44 p. 389 R275

Includes food composition and raw materials in the food industry.

39016 ROESSLER, E. B., WARREN, J., and GUYMON, J. F. Significance in triangular taste tests. *Food Res.* 13: 503-505. Nov./Dec. 1948. 389.8 F7322

39017 ROSS, E. A quantitative hardness tester for food products. *Science* 109: 204. Feb. 25, 1949. 470 Sci2

39018 SHIRLEY, R. L., BENNE, E. J., and MILLER, E. J. Cadmium in biological materials and foods. *Analyt. Chem.* 21: 300-303. Feb. 1949. 381 J825A

39019 YLSTRA, J. Methodological contributions to the microbiological determination of tryptophane. *Analyt. Chim. Acta* 2: 801-804. Dec. 1948. 381 An1

Summary in French and German.

#### CONSUMPTION AND UTILIZATION

39020 DENMAN, C. B. Producer responsible for acceptability of produce by consumer. *Food Canada* 9(2): 34, 36. Feb. 1949. 389.8 F7323

39021 GARRISON, E. E., and HUTCHISON, R. S. Consumer shopping habits regarding groceries. *Tenn. U. Col. Business Admin. Bur. Res. Study* 16, 41 p. July 1948. 280.9 T252

39022 LE CLUS, P. G. Farmers are also consumers (In Afrikaans.) *Primary Prod. [Cape Town]* 24(6): 15. Feb. 11, 1949. 281.8 P93

39023 MCLANE, P. V. Foodstuffs are main consumer expenditure in New Zealand. *Foreign Trade* 5: 294-296. Feb. 5, 1949. 286.8 C162

39024 SCOTT, W. M. Industrial opportunities latent in larger and more diversified Southern agricultural production. *New Orleans? U. S. Bur. Agr. and Indus. Chem.*, 1948. 8 p. 1.9321 S2Sco8

#### DISTRIBUTION, MARKETING, AND TRANSPORTATION

39025 ALBERT, G. D. Truck-trailer refrigeration for frozen foods. *Quick Frozen Foods* 11: 98-100, 142, 174. Mar. 1949. 389.8 Q4

39026 ALBIN, H. C. Government procurement-distribution policies on gifts of food to institutions and for school lunch programs. *Wholesale Grocer News* 23(11): 53, 78. Feb. 1949. 286.83 W622

39027 BABER, L. C. Marketing farm products. *Ark. Farmer* 51(2): 12-13, 20. Feb. 1949. 6 Ar42

39028 BYRNE, R. J. Trucking co-op makes back hauls pay. *News Farmer Coop.* 15(11): 12-14. Feb. 1949. 166.2 N47

Northern Cooperatives, Inc., Wadena, Minn.

39029 CANTERBURY AGRICULTURAL COLLEGE. Marketing cash crops. *Canterbury Chamber Com. Agr. B.* 233, 4 p. Dec. 1948. 23 C162

39030 CASSELL, G. R., and HOECKER, R. W. Pattern for development of air freight between the United States and countries in the Caribbean area. *Md. Agr. Expt. Sta. Misc. P.* 77, 49 p. Nov. 1948. 100 M36M

39031 CONNECTICUT. DEPT. OF FARMS AND MARKETS. Summary of carlot unloads, truck receipts and local receipts in Bridgeport, Hartford, New Haven and Waterbury for the year 1948, by A. White and B. Yaffa. Feb. 1949. 18 p. 280.39 C762

Fruit, vegetables, poultry, and eggs.



39032 CORONAT, F. Les perspectives du marché des matières premières. I-III. Agence France-Presse. Inform. et Doc. 224: 7-10; 225: 17-19; 226: 13-15. Jan. 29-Feb. 12, 1949. 280.9 Ag3

39033 CROW, W. C. Wholesale produce handlers need new market location. U. S. Prod. & Mktg. Admin. Mktg. Activ. 11(11): 7-9. Nov. 1948. 1.942 A8M34

39034 DAVIS, P. O. Alabama's work in marketing. Ext. Serv. Rev. 20: 30, 33. Feb. 1949. 1 Ex892Ex

39035 DIMMICK, T. B. Traffic trends on rural roads in 1947. U. S. Pub. Roads Admin. Pub. Roads 25: 145-155, 137. Mar. 1949. 1 R53P

39036 DUBEY, K. R. Agricultural produce and its marketing in the Central Provinces and Berar. Nagpur Agr. Col. Mag. 23: 11-15. June/Sept. 1948. 107.5 N132

39037 ELLIOTT, W. H. Mississippi market offers latest facilities. Mkt. Growers J. 78(3): 12. Mar. 1949. 6 M34

39038 ESHBACH, C. E. Big advances in marketing [in New England]. New England Homestead 122(3): 34, 38. Feb. 12, 1949. 6 N442

39039 FOSSATI, E. R. Orders of the Chamber of Commerce and agricultural interests. (In Italian.) B. dell'Agr. 83(3): 1. Feb. 11, 1949. 16 B87

39040 GEARREALD, T. N. Growers' supplies: how to lower the cost of them. Mountaineer Grower 19(175): 23, 26-27. Feb. 1949. 80 M86  
Farm cooperatives.

39041 HARMANSON, L. J., JR. How "special interests" attempt to stifle farm co-op trucking. Co-op. Digest 9(9): 44-46. Mar. 1, 1949. 280.28 C7896

39042 HASTINGS, E. C. Avoiding penalty charges on freight shipments. Amer. Egg & Poultry Rev. 10(2): 90-93. Feb. 1949. 47.8 Am38

39043 HAY, M. Traditional services of the commodity markets. Broomhall's (George) Corn Trade News, Weekly & Amer. Ed. 59: 40-41. Jan. 26, 1949. 286.81 B79

39044 HENSLEY, H. C. El comercio por intermedio de las cooperativas de los productores. Uruguay. Min. de Ganad. y Agr. B. Inform. 253: 13; 254: 6; 255: 8. Jan. 13, 20, 27, 1949. 9.9 G15B

39045 HICKS, E. W. Refrigerated transport. Refrig. J. 2: 824, 826, 828. Nov. 1948. 295.8 R255  
Discussion, p. 828-829.

39046 HOECKER, F. W. Adequate research as a means of reducing marketing costs. Food Canada 9(2): 38, 40. Feb. 1949. 389.8 F7323

39047 JAMISON, C. F. Better refrigeration facilities. Mountaineer Grower 19(175): 42-43. Feb. 1949. 80 M86  
Refrigerator cars.

39048 KARISCH. Übernahme neuer landesstrassen. Allg. Bauern-Ztg. 4(4): 3. Jan. 22, 1949. 281.8 AL5  
Austria.

39049 KOESTER, E. L. Market in Cincinnati, "The Bottoms." Fruit & Veg. Rev. 9(11): 14, 23. Feb. 1949. 80 C1224

39050 KRUEGER, W. C. Better farming roadside market. Better Farming Methods 21(4): 15, 32. Apr. 1949. 58.8 B46

39051 MASSIBOT, J. A. L'organisation des recherches économiques sur les produits agricoles aux États-Unis (Research and Marketing Act, 1946). Agriculture [Paris] 12: 391-392. Dec. 1948. 14 Ag823

39052 MOORE, A. Requisites for a stable demand for products of farm and factory. Natl. Forum Labor, Agr. & Indus. Ann. Proc. 4: 85-89. 1948. 280.9 N2182

39053 MORELL, B. M. La venta de productos agrícolas a orillas de la carretera. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 39, 4 p. Jan. 1949. 275.29 P962

39054 MORGAN, C. W. Government procurement and distribution policies; procurement-distribution policies and practices of the Federal Government respecting food supplies. Wholesale Grocer News 23(11): 47-48, 50. Feb. 1949. 286.83 W622

39055 MURRAY, M. Are you planning a homemakers market? Tex. Agr. Col. Ext. L-86, 8 p. 1949. 275.29 T313

39056 NATIONAL PLANNING ASSOCIATION. AGRICULTURE COMMITTEE ON NATIONAL POLICY. Must we have food surpluses? Natl. Planning Assoc. Planning Pams. 65, 47 p. Ref. Mar. 1949. 280.9 N2153  
Disposal of the surpluses.

39057 NIESEL, E. Landhandel—für erzeuger und verbraucher. Ernährungsdienst 3(69/70): 5-6. Dec. 23, 1948. 389.8 Er62  
Germany.

39058 PAARLBERG, D. Freight rates and farm marketing. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1949: 1-3. Jan. 26, 1949. 275.29 In2Em

39059 PAGANI, L. Necessity for setting legal privilege for financing voluntary pools of agricultural products. (In Italian.) Agr. delle Venezie 2: 507-515. May/June 1948. 16 Ag826

39060 PROSEK, J. New organization on sale and working up of the agricultural production. (In Czech.) Družstevní Rev. 2: 134-142. Jan. 1949. 280.28 D84  
English and Russian summary.

39061 REED, V. Analyzes basic trends in farm market. Com. & Financ. Chron. 169: 875. Feb. 24, 1949. 286.8 C73

39062 RUSSELL, R. S. Government bulk buying; an economic and critical analysis of government purchasing. Weekly Mkt. News & Mod. Farmer 27(3): 2, 8. Jan. 20, 1949. 286.81 G762A  
Canada.

39063 SIMON, T. A traffic-stopping roadside stand. Farm & Ranch 68(3): 51, 52. Mar. 1949. 6 T31

39064 THOMPSON, J. I. States attack marketing problem. Mkt. Growers J. 78(3): 16, 52. Mar. 1949. 6 M34

39065 TRUCK lines & terminals for frozen food shipments. Quick Frozen Foods 11: 101-108. Mar. 1949. 389.8 Q4

39066 TUKEY, H. B. Marketing—the No. 1 project. Rural New-Yorker 99: 154, 185. Mar. 5, 1949. 6 R88

39067 UNION OF SOUTH AFRICA. OFFICE OF CENSUS AND STATISTICS. The Union of South Africa and the war. Pretoria, 1948. 60 p. 270 C3320

Preprint from the Official Year Book of the Union of South Africa and of Basutoland, Bechuanaland Protectorate and Swaziland, No. 23, 1946.  
Includes the history of food control.

39068 U. S. COMMODITY EXCHANGE AUTHORITY. Commodity futures statistics, July 1947 - June 1948. U. S. Commod. Exch. Authority. CS 34, 50 p. Nov. 1948. 1.9422 A8C732

39069 U. S. CONGRESS. SENATE. COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE. Competitive absorption of transportation costs. Hearings, 81st Cong., 1st sess. on S. 236, Jan. 24, 25, 26, and Feb. 18, 1949. Washington, 1949. 343 p.

39070 U. S. EXTENSION SERV. Examples of marketing activities reported by State marketing economists for the year 1947. Washington, 1949. 42 p. 1.913 E2Ex1  
Extension work in marketing.

39071 U. S. EXTENSION SERV. A list of references for specialists conducting an extension food marketing program for consumers, by M. B. Smith. Washington, 1949. 5 p. 1.913 F4G94

39072 WHAT factors determine freight rates and their influence on our economy? Natl. Forum Labor, Agr. & Indus. Ann. Proc. 4: 44-52. 1948. 280.9 N2182  
Panel discussion, C. M. Elkinton, leader.

39073 WHITE, B. Oh—so you are a food broker!—so what? Canning Trade 71(33): 8, 10. Mar. 7, 1949. 286.83 T67

#### GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

39074 ROOTS, W. L., and WALTERS, H. W. Food hygiene: some ideas for the future. Roy. Sanit. Inst. J. 69: 119-127. Mar. 1949. 449.9 R812  
Discussion, p. 127-130.

39075 STEELE, E. M. Pure food and legislation report. Wholesale Grocer News 23(11): 56. Feb. 1949. 286.83 W622

39076 WHEELER, W. C. Device automatically samples dry, flowing materials. Food Indus. 21: 328, 432. Mar. 1949. 389.8 F737

#### PACKING AND PACKAGING

39077 BRACHMANN. Ein wort zu den zwei-zentner-säcken. Neue Mitt. f. die Landw. 3: 449-450. Dec. 5, 1948. 18 N39



39078 HOWARD, S. R. FDA and package filling. Spice Mill 72(3): 53-54. Mar. 1949. 389.8 Sp4  
Second part of an article on the Food, Drug & Cosmetic Act.

39079 POE, C. F., and LEBERMAN, J. M. The effect of acid foods on aluminum cooking utensils. Food Technol. 3: 71-74. Ref. Feb. 1949. 389.8 F7398

39080 RUSSOW, N. R. Effectiveness of the black branded burlap bag program. G. L. F. Week. Serv. Sched. 13(33): 4. Feb. 14, 1949. 280.28 G113W

39091 SCHINDLER, C. Produce packaging dependent on refrigeration. Pre-Pack-Age 2(6): 12. Feb. 1949. 280.38 P91

39082 TANNER, F. W. Paper and paperboard in the food industry—public health aspects. Fibre Containers 34(2): 54, 56, 61. Ref. Feb. 1949. 286.8 F44

#### PRICES, PRICE CONTROL, AND RATIONING

39083 AIKEN, G. D. Trouble ahead in rigid farm supports. Northwest. Miller 237(11): 32-34, 36. Mar. 15, 1949. 298.8 N81

39084 ALLEN, W. H. How much parity? N. J. Farm & Gard. 20(2): 6. Feb. 1949. 6 G162

39085 AUSTERN, H. T. Crystal clear confusion—the new legal rules for pricing goods. Natl. Cannery Assoc. Inform. Let 1219: 13-18. Jan. 26, 1949. 389.9 N214In

39086 BREART, G. Nos prix agricoles ne doivent pas redouter la baisse des prix américains. J. de la France Agr. 5(190): 77. Feb. 18/24, 1949. 14 J829

39087 BRIDGE, F. C. Guaranteed prices [Jamaica]. Farmer [Kingston] 52: 138-141. July/Sept. 1948. 8 J223

39088 CARDONNE, P. Les prix des produits agricoles. Tribune Agr. 42(753): 1. Feb. 15, 1949. 24 T732

Algeria.

39089 DU PLESSIS, C. V. H. Agricultural prices dangerously high. (In Afrikaans.) Landbouweekblad 30(1539): 44. Jan. 12, 1949. 24 L232  
Union of South Africa.

39090 FILLEY, H. C. Nebraskan reviews new trend. Coop. Consumer 16(3): 3, 14. Feb. 16, 1949. 280.28 C7836

Price outlook.

39091 HANAU, A. Überlegungen zum deutschen preisproblem. n. p., 1948. 12 p. 284.3 H19U  
Germany.

39092 HARTFORD, J. A. Lower food costs seen in new year by A&P president. Amer. Egg & Poultry Rev. 10(2): 43-44. Feb. 1949. 47.8 Am38

39093 JOHNSON, P. C. What will fixed supports cost? Prairie Farmer, Gen. Ed. 121(3): 1, 6. Feb. 5, 1949. 6 P883

39094 LÉTRANGE, J. Abondance! Misère ou prospérité paysanne? Jura Agr. (n. s.) 1948(16): 1. Dec. 15, 1948. 14 J97

Prices.

39095 LINGHAM, F. J. "Farm parity"; great piece of bunk. Cotton Digest 21(24): 17, 29-30. Mar. 5, 1949. 286.82 C822

39096 MCDONALD, A. Farm prices hold the key. New Repub. 120(11): 14-16. Mar. 14, 1949. 280.8 N42

39097 MARCIAC. La lutte contre la hausse des prix. Petit Casablancais 30, i. e. 32(1354): 1-2. Feb. 21, 1948. 280.8 P44

39098 MINDELL, J. Agricultural price decline. Forbes 63(6): 30. Mar. 15, 1949. 280.8 F74

39099 NAIDICH, R. Problems of farm price supports. Natl. Indus. Conf. Bd. Business Rec. 6: 63-66. Feb. 1949. 280.9 N216Cb

39100 PADBERG. Überhöhte betriebsmittelpreise erschweren rationalisierung. Neue Mitt. f. die Landw. 3: 363-364. Nov. 5, 1948. 18 N39  
Germany.

39101 PARVIN, D. W., and REDMAN, J. C. Corn leads decline in farm prices as State average drops to 1946 levels. Miss. Farm Res. [Miss. Sta.] 12(2): 7. Feb. 1949. 100 M69Mi

39102 PARVIN, D. W., and REDMAN, J. C. Price of farm commodities, with few exceptions, lower than one year ago. Miss. Farm Res. [Miss. Sta.] 11(12): 2. Dec. 1948. 100 M69Mi

39103 PARVIN, D. W., and REDMAN, J. C. Prices received by farmers 17 percent below peak. Miss. Farm Res. [Miss. Sta.] 12: 7. Jan. 1949. 100 M69Mi

39104 PEARSON, F. A., and MYERS, W. I. Prices and presidential mandates. N. Y. Agr. Col. Farm Econ. 166: 4266-4272. Jan. 1949. 280.8 C812

39105 PIENAAR, G. Future price level of agricultural products. (In Afrikaans.) Landbouweekblad 30(1534): 47. Dec. 8, 1948. 24 L232

39106 RANDALL, C. K. Parity prices. Agr. Econ. Res. 1: 11-15. Jan. 1949. 1 Ec7Agr

39107 STEDMAN, A. D. Behind the farm fight. Amer. Farm Bur. Fed. Off. Let. 28(4): 2. Feb. 16, 1949. 280.83 Am3W

Farm price policies.

39108 STILES, J. W. Effective pricing. G. L. F. Week. Sched. 13(38): 1, 4. Mar. 21, 1949. 280.28 G113W  
Farm supplies.

39109 U. S. CONGRESS. SENATE. COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE. Study of pricing methods. Hearings, 80th Cong., 2d sess. pursuant to S. Res. 241, Nov. 9, 10, 11, 12, 16, 17, 18, 19, 29, and 30; Dec. 6, 7, and 8, 1948. Washington, 1948. 1401 p.

39110 WILLIS, P. S. Downward drop in prices will be slow and gradual. Food Retailing 141(10, i. e. 11): 22. Feb. 1949. 286.85 B974

39111 WINDISCH, K. Ernährungsbeihilfen für kinder land- und forstwirtschaftlicher dienstnehmer. Kärntner Bauer 99: 39. Feb. 1, 1949. 19 K14

39112 WINGATE, H. L., and GOSS, A. S. Price supports—should they be fixed or flexible? Farm J. 73(3): 46-47. Mar. 1949. 6 F2212

39113 YOUNGE, J. Chaos in today's farm production; danger lurks in higher parity and support prices. Feed Bag 25(2): 15, 90. Feb. 1949. 389.78 F32

#### PROCESSING AND STORAGE

39114 ALSTRAND, D. V., and ROYCE, R. The practical value of careful retort operation. Natl. Cannery Assoc. Inform. Let. 1219: 65-67. Jan. 26, 1949. 389.9 N214In

39115 AUSTERN, H. T. Comment on grower contracts. Natl. Cannery Assoc. Inform. Let. 1219: 52. Jan. 26, 1949. 389.9 N214In

39116 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. An account of research work in the Division of Food Preservation. Food Preserv. Q. 8: 42-63. Sept./Dec. 1948. 389.9 Au7F

39117 BARNARD, J. D. Supplying custom work to farmers as an aid to the production of canning crops. Natl. Cannery Assoc. Inform. Let. 1219: 55-56. Jan. 26, 1949. 389.9 N214In

39118 BARNES, V. W. The place of cannery sanitarians under top management. Fruit Prod. J. & Amer. Food Mfr. 28: 203-204. Mar. 1949. 389.8 F94

39119 BAXTER, J. L. A canner looks at the foods industry. Wholesale Grocer News 23(11): 35-36, 89, 92. Feb. 1949. 286.83 W622

39120 BLACKBURN, T. F. Farm freezers make sense. Elect. Merchandising 81(3): 78-79, 208. Mar. 1949. 335.8 EL242

39121 BÜHLER, C. R. Die trocknung als mittel zur konservierung von lebens- und arzneimitteln. Süddeut. Mol.-Ztg. 69: 70-72. Mar. 25, 1948. 44.8 Su2

39122 BURTON, L. V. Neglected aspects of food technology. Food Technol. 3: 39. Feb. 1949. 389.8 F7398

39123 CHAMBERS, H. H. Vacuum freeze drying. Chem. Trade J. 124: 122, 124. Feb. 4, 1949. 382 C422

39124 FROZEN FOOD LOCKER INSTITUTE, INC. Your locker plant, a guidebook for the prospective locker owner. Omaha, Nebr., 1948. 224 p. 295 F93

39125 FULLERTON, F. H. B. C. canners short course. Canad. Food Indus. 20(3): 53, 55, 57. Mar. 1949. 286.83 C166

39126 HALL, L. A. Pressure hydrolysis of proteins. Food Technol. 3: 51-56. Ref. Feb. 1949. 389.8 F7398

39127 HALLOWELL, E. R. Recent developments in refrigerated warehouses. Ice & Refriger. 116(3): 53-56. Mar. 1949. 295.8 Ic2

39128 JANOVICS, A. Hydrolysed proteins. Food Indus. So. Africa 1(9): 29-30. Jan. 1949. 389.8 F7372



- 39129 JOHNS, C. K. Vigilance in cooling can halt bacterial growth in food. I. Food Canada 9(2): 11-12, 14. Feb. 1949. 389.8 F7323
- 39130 JOHNSTON, H. W. 1949 exhibit of canning machinery and supplies. Natl. Canners Assoc. Inform. Let. 1219: 34-35. Jan. 26, 1949. 389.9 N214In
- 39131 KING, J. P. Contacts with grower organizations. Natl. Canners Assoc. Inform. Let. 1219: 53. Jan. 26, 1949. 389.9 N214In
- 39132 LAUCKS, E. J. Things present and to come. Canner 108(11): 16-17. Mar. 12, 1949. 286.83 C16
- 39133 MCCARTNEY, G. T. The canned foods industry as a distributor sees it. Canner 108(7): 10, 26. Feb. 12, 1949. 286.83 C16
- 39134 MCGOVERN, J. F. The canners job other than canning. Amer. Grocer 161(9): 2-3. Mar. 2, 1949. 286.83 Am32  
Also in Canner 108(11): 17, 44. Mar. 12, 1949. 286.83 C16
- 39135 MARILLER, C. Manuel du distillateur. Ed. 3. Paris, Baillière, 1948. 312 p. (Biblioth. Prof.) 388 M33M
- 39136 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Freezing quality foods. Md. Agr. Col. Ext. B. 120, 37 p. Oct. 1948. 275.29 M36B
- 39137 MASON, L. B. Canners' choice. Natl. Canners Assoc. Inform. Let. 1219: 18-19. Jan. 26, 1949. 389.9 N214In
- 39138 MELNICK, D., and OSER, B. L. The influence of heat-processing on the functional and nutritive properties of protein. Food Technol. 3: 57-71. Ref. Feb. 1949. 389.8 F7398
- 39139 MINDLER, A. B. Ion exchangers in food processes. Food Technol. 3: 43-47. Ref. Feb. 1949. 389.8 F7398
- 39140 MITCHELL, H. L., SCHRENK, W. G., and KING, H. H. Preparation and storage of carotene concentrates. Indus. & Engin. Chem. 41: 570-572. Ref. Mar. 1949. 381 J825
- 39141 MITCHELL, M. W. A sales portfolio for the canner's fieldman. Canner 108(9): 13-14, 22. Feb. 26, 1949. 286.83 C16  
Canner-grower relationships.
- 39142 NAIR, J. H. British food processors make best of bad situation. Food Indus. 21: 332-334. Mar. 1949. 389.8 F737
- 39143 NATIONAL CANNERS ASSOCIATION. Proceedings of the 42nd annual convention. Natl. Canners Assoc. Inform. Let. 1219: 9-100. Jan. 26, 1949. 389.9 N214In
- 39144 ORR, N. Mistaken ideas about frozen foods. South. Agr. 78, i. e. 79(2): 54. Feb. 1949. 6 So83
- 39145 PARKER, M. E. Illinois Tech combines engineering with food technology. I-II. Food Indus. 21: 98-100, 138-139, 184-185. Jan.-Feb. 1949. 389.8 F737
- 39146 PATTERSON, J. B. Attendance of food handler's courses as a prerequisite to employment. Wash. State Col. Inst. Dairying Proc. 17: 165-169. 1948. 44.9 W27
- 39147 PEDERSON, C. S. The science of vegetable fermentations. (Abs.) Canner 108(11): 34, 36. Mar. 12, 1949. 286.83 C16
- 39148 PERRY, F. J. Fundamentals of plant sanitation. Canad. Food Indus. 20(3): 30-32. Mar. 1949. 286.83 C166  
By the canning industry.
- 39149 PETERSON, G. T. Comparison of existing methods of producing vacuums in cans. Natl. Canners Assoc. Inform. Let. 1219: 67-71. Jan. 26, 1949. 389.9 N214In
- 39150 PICKUS, M. I. A salesman looks at the canned foods industry. Wholesale Grocer News 23(11): 32-34, 103. Feb. 1949. 286.83 W622
- 39151 REFRIGERATION RESEARCH FOUNDATION, INC. Report of the director 1944-1948. 1949. 40 p. 295.9 R25R
- 39152 SANBORN, N. H. Canning plant sanitation—do's and don'ts. Fruit Prod. J. & Amer. Food Mfr. 28: 201-202. Mar. 1949. 389.8 F94
- 39153 SCHILLE, W. H. A marketing analyst looks at the canned foods industry. Wholesale Grocer News 23(11): 37-38, 40. Feb. 1949. 286.83 W622
- 39154 SHERMAN, R. W. Some economic and financial aspects of the operation of cold storage locker plants in Ohio. Ohio. State U. Abs. Doctoral Diss. (1946/47) 54: 333-339. 1948. 241.8 Oh3
- 39155 SOMERS, I. I. How to select detergents for food plant cleaning. Food Indus. 21: 295-296, 429-430. Ref. Mar. 1949. 389.8 F737
- 39156 SUNDBLAD, H. The Danes are building locker plants. (In Swedish.) Joel 1948: 51-55. 335.8 J59
- 39157 TAYLOR, P. R. Improved grower-canner relations. Nation's Agr. 23(3): 12. Mar. 1949. 280.82 B89  
Canner-grower contracts.
- 39158 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Questions about frozen foods, by R. B. White, S. Larson, R. Smith, and others. Washington, 1949. 5 p. 1.914 R2R11
- 39159 VERHULST, M. P. Reviewing our contracts. Natl. Canners Assoc. Inform. Let. 1219: 50-51. Jan. 26, 1949. 389.9 N214In  
Canner-grower contracts.
- 39160 WHAT'S ahead for the frozen food industry? Quick Frozen Foods 11: 131-132. Mar. 1949. 389.8 Q4
- 39161 WILBUR, P. C. Canning developments for 1949. Food Canada 9(2): 16-18, 21. Feb. 1949. 389.8 F7323
- 39162 WILLIAMS, E. W. Coming changes in the industry. Quick Frozen Foods 11: 94-97, 166. Mar. 1949. 389.8 Q4
- 39163 WITZ, R. L. Frozen food unit makes better living in the home. Nodak Neighbor 9(9): 4. Feb. 1949. 335.9 N67

## STATISTICS

- 39164 ANTIOQUIA. DIRECCIÓN DEPARTAMENTAL DE ESTADÍSTICA. Anuario estadístico de Antioquia, 1944/46. Oct. 1948. 224 p. 255.5 An8A  
Includes agricultural statistics.
- 39165 ARBELAEZ MANRIQUE, A. El censo agropecuario de 1950. Agr. Trop. Sup. Agron. 5: 35-37. Jan. 1949. 26 Ag8
- 39166 BECKER, J. A. 1950 census of world agriculture. Foreign Agr. 13: 34-37. Feb. 1949. 1.9 Ec7For
- 39167 BISSONNET, A. P. Agricultural production in Italy reached higher level last year. Foreign Trade 5: 402-403. Feb. 19, 1949. 286.8 C162  
Statistics.
- 39168 BRITISH COLUMBIA. DEPT. OF AGRICULTURE. STATISTICS BR. Agricultural statistics report 1947. 1948. 51 p. 7 B77S
- 39169 BURKHEAD, C. E. Weather permitting, another big harvest ahead. Agr. Situation 33(2): 3-4. Feb. 1949. 1 Ec7Ag  
Estimates of 1949 crop yields.
- 39170 CURAÇAOS verslag, 1942; verslag van bestuur en staat van Curaçao over de jaren 1940-1941 [Curaçao report, 1942; report of the government and state of Curaçao for the years 1940-1941]. 1948. 303 p. 259 C83C  
Includes agriculture.
- 39171 GREAT BRITAIN. BRITISH INFORMATION SERVICES. Statistics on Britain's position. Rev. Feb. 1948. 31 p. 256 B774  
Includes agriculture.
- 39172 HÖNL, Aus der landwirtschaft in Württemberg-Baden. Statist. Monatsh. Württemberg-Baden. 3(1): 28-30. Jan. 1949. 265 St24  
Statistics.
- 39173 LOUWES, H. J. Shifts in the crop area of the Netherlands. N. Y. Agr. Col. Farm Econ. 166: 4284-4285. Jan. 1949. 280.8 C812
- 39174 MCMILLAN, R. T. Tractors have just about put the horse out of business. Farmer-Stockman 62(2): 4, 34. Feb. 1949. 6 Ok45  
Farm statistics including number of tractors in Oklahoma.
- 39175 MAGALHÃES, V. P. DE. Agricultural production [Portugal]. (In Portuguese.) Cent. de Estud. Econ. Rev. 6: 108-123. 1948. 280.9 C333  
Statistics.



39176 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. A statistical handbook of Oklahoma agriculture. Okla. Agr. Expt. Sta. Misc. P. MP-14, 127 p. Jan. 1949. 100 Ok4

39177 SASTRY, N. S. R. India and the world census of agriculture. Reserve Bank India. B. 2: 572-575. Sept. 1948. 284.9 R31B

39178 SATYANARAYANA, M. Improving crop estimation to combat the food crisis. Madras Agr. J. 35: 365-368. Dec. 1948. 22 M262

39179 STATE-FEDERAL CROP AND LIVESTOCK REPORTING SERVICE. Minnesota State farm census, 1948. 1948. 11 p. 252.43 St2Ms

39180 SWEDEN. STATISTISKA CENTRALBYRÅN. La récolte en 1948. (In Swedish.) Stockholm, 1948. 23 p. 257.3 St2Na

Table of contents also in French.

39181 SWITZERLAND. BAUERNSEKRETARIAT. Statistische erhebungen und schätzungen auf dem gebiete der landwirtschaft, 25th, 1948. 1948. 168 p. 262 Un3S

39182 TAKEI, S. 1948 Honolulu unloads, Oahu; estimated production, shipments, and wholesale prices of specified agricultural products. Hawaii. U. Agr. Ext. C. 261, 57 p. Feb. 1949. 275.29 H412Ac

39183 TASMANIA. STATISTICIAN. Tasmanian agricultural statistics, 1947/48. 1948. 3 p. 271.5 St2T

39184 YOLO COUNTY, CALIFORNIA. Agricultural crop report, 1948. 1949. 8 p. 252.09 Y7

#### BEVERAGES AND CONDIMENTS

39185 AHRENS, P. D., and MCKISSOCK, A., JR. Ask full trade support on '49 tasks. Spice Mill 72(1): 41. Jan. 1949. 389.8 Sp4

Tea.

39186 AMERINE, M. A. Wine production problems of California grapes. II. Wine Rev. 17(2): 10-11, 21. Feb. 1949. 390.8 W722

39187 ANTONIADES, P. C. Practical hints on the preparation and preservation of wines. Cyprus. Dept. Agr. Leaflet 25, 6 p. 1948. 21 C99L2

39188 BACCIGALUPPI, H. Wooden barrels aid wine industry. Wooden Barrel 17(4): 6-7. Dec. 1948. 99.82 W854

39189 BERTUZZI, A. Thermo-refrigeration treatment of wine. (In Italian.) Com. Vinic. 21(2): 2. (Cont.) Jan. 14, 1949. 390.8 C732

39190 BRADFIELD, A. E., and PENNEY, M. The catechins of green tea. II. Chem. Soc. J. 1948: 2249-2254. Dec. 1948. 382 L84J

39191 BRAZIL. INSTITUTO NACIONAL DO MATE. Boletim estatístico [Statistical bulletin] 1947. 1948? 40 p. 255.3 In74B

39192 BRAZIL. INSTITUTO NACIONAL DO MATE. Relatório [Report], março [March] 1947. 1948. 69 p. 281.3689 B73R

39193 CAILLET, J. Le Beaujolais et ses vins. France. Min. de l'Agr. B. Tech. d'Inform. 33: 515-519. Oct. 1948. 14 F844B

39194 CANADA. BUR. OF STATISTICS. INDUSTRY AND MERCHANDISING DIVISION. GENERAL MANUFACTURES SECTION. Report on the brewing industry in Canada 1947. 1949. 16 p. 253 C3321

39195 CASTILLA, D. DE. El sabor amargo del vino. Ceres [Valladolid] 14: 21-22. Jan. 1949. 15 C33

39196 CAWSTON, F. G. Glucose as a beverage. Cur. Sci. 18: 8. Jan. 1949. 475 Sci23

39197 CHABOT, E. Peut-on dans tous les cas améliorer une bière? Petit J. du Brasseur 57: 89-92. Feb. 4, 1949. 390.8 P44

Discussion, p. 92-93.

39198 CHARNAY, P. Les appellations d'origine des produits de qualité. I-II. Vaucluse Agr. 5(82): 4; (84): 2. Jan. 1, 1949. 14 V26

39199 DAUPHIN, E. J. Wine and peace. Wine & Spirit 18(2): 8. Feb. 1949. 390.8 W725

39200 DENISON, F. E. The fine art of tea blending. Tea & Coffee Trade J. 96(3): 32, 34-35. Mar. 1949. 68.8 T22

Also in Spice Mill 72(3): 39-40, 44. Mar. 1949. 389.8 Sp4

39201 DUBOIS, W. L. Spices stand up in freezer storage. Food Indus. 21: 339. Mar. 1949. 389.8 F737

39202 DUPRÉ, G. Rapport à la Commission Consultative de la Viticulture (21 décembre 1948). Off. Internatl. du Vin. B. 21(214): 13-19. Dec. 1948. 390.8 B87

France.

39203 FESSLER, J. H. Relationship of "volatile" SO<sub>2</sub> to "volatile" acids content in California wines. Wine Rev. 17(2): 14-16. Feb. 1949. 390.8 W722

39204 FIRST annual directory of American wine wholesalers. Wine Rev. 16(12): 17-61. Dec. 1948. 390.8 W722

39205 GEISS, W. Die klärung der moste und weine. Österr. Weintztg. 4: 2. (To be cont.) Jan. 1, 1949. 290.8 Os7

39206 HALL, M. M. Show them the true color of tea. Spice Mill 72(2): 37-38. Feb. 1949. 389.8 Sp4

Advertising.

39207 HALLAURE, J. Spices and condiments. 2. Cul. Rev. 17(5): 5. Feb. 1949. 389.8 C89

39208 HERSTEIN, K. M., and JACOBS, M. B. Chemistry and technology of wines and liquors. Ed. 2. New York, Van Nostrand, 1948. 436 p. 390.1 H433

39209 HOT, A. Vins doux naturels du Roussillon. Journée Vinic. Export 22(14): 3. Nov. 1948. 390.8 J82

Text in French and English.

39210 HOWARD, S. R. FDA and package filling. Spice Mill 72(2): 53-54. Feb. 1949. 389.8 Sp4

39211 INDIA. AGRICULTURAL MARKETING ADVISER. Report on the production and marketing of cardamom in India. India. Agr. Mktg. Adv. Mktg. Ser. 59, 62 p. 1947. 280.39 In2

39212 INTER-AMERICAN COFFEE BD. Study of the world coffee situation. n. p., 1948. 44 p. 286.368 In8

Also in Spanish, 286.368 In8As

39213 JACOBS, M. B. Coffee flavor. Amer. Perfumer & Essential Oil Rev. 53(2): 141-143. Feb. 1949. 308.8 Am3

Coffee processing.

39214 JEANSON, P. Soignez la mise en bouteille. Monit. Agr. 2(54): 7. Jan. 23, 1949. 14 M744

Wine.

39215 JEANSON, P. Les sous-produits de l'industrie vinicole. Monit. Agr. 2(56): 6. Feb. 6, 1949. 14 M744

39216 JEANSON, P. Technique de la fabrication du champagne. Monit. Agr. 2(53): 7. Jan. 16, 1949. 14 M744

39217 JOENSSON, A. Pepper supply may outstrip demand. Spice Mill 72(2): 49-50. Feb. 1949. 389.8 Sp4

39218 JOSLYN, M. A. California wines; oxidation-reduction potentials at various stages of production and aging. Indus. & Engin. Chem. 41: 587-592. Ref. Mar. 1949. 381 J825

39219 KIEFFER-REMICH, N. Säureumlagerungen in der traube und im wein. Österr. Weintztg. 4: 41-42. Feb. 5, 1949. 390.8 Os7

39220 LARUE, P. Vin de sucre et sucre de canne. Prog. Agr. et Vitic. 1949: 24-25. Jan. 2/9, 1949. 14 P94

Wine quality.

39221 LE ROUX, P. Future possibilities of the South African wine industry. (In Afrikaans.) Wynboer 17(307): 17, 19-20. Dec. 1948. 390.8 W724

39222 LIEDERMANN, E. Wo kaufe ich ein? Ein führer durch Österreichs weinbauggebiete. Österr. Weintztg. 3: 415-416; 4: 3, 28, 59-60. (Cont.) Dec. 18, 1948, Jan. 1, 22, Feb. 19, 1949. 390.8 Os7

39223 LOUSTALOT, A. J., and CERNUDA, C. Experiments in curing vanilla in Puerto Rico. (In Portuguese.) Fazenda 44(2): 44-45. Feb. 1949. 6 H11P

39224 MADRAS. PUBLIC (ECONOMICS & STATISTICS) DEPT. Statistics—ginger—1948—final report. n. p., 1949. 1 p. 68.9 M26

39225 MADRAS. PUBLIC (ECONOMICS & STATISTICS) DEPT. Statistics—pepper—1948—final report. n. p., 1949. 1 p. 68.9 M26S

39226 MARANI, R. Aging wine with infra red. (In Italian.) Ital. Vinic. ed Agr. 38: 236-237. Oct. 31, 1948. 95.8 It1

39227 MARESCALCHI, A. Tokay wine. (In Italian.) Ital. Vinic. ed Agr. 38: 246-247. Nov. 15, 1948. 95.8 It1



- 39228 MARTINS, J. W. Argentine viticulture and its importance. (In Portuguese.) Rio Grande do Sul. Sec. da Agr. Indús. e Com. Inform. Rural 1(5/6): 7-8. May 1948. 9.2 R4741
- 39229 MENSIO, C. Wines 1948. I-III. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 207, 219-220; 95: 2-3. Nov. 30-Dec. 15, 1948; Jan. 15, 1949. 16 C72
- 39230 MERZ, J. Wie erzeugt man wermutwein? Österr. Weinztg. 4: 37-38. (Cont.) Jan. 29, 1949. 390.8 Os7
- 39231 MERZ, J. J. 50 Jahre Wiener Rathauskeller; ein Beitrag zur Geschichte der Weinbauförderung in Österreich. Österr. Weinztg. 4: 58-59. Feb. 19, 1949. 390.8 Os7
- 39232 MERZ, J. J. Propaganda für österreichische Weine in Amerika. Österr. Weinztg. 3: 413-414. Dec. 18, 1948. 390.8 Os7
- 39233 MONTHULE, P. Comment traiter vos eaux-de-vie de cidre? Monit. Agr. 2(53): 7. Jan. 16, 1949. 14 M744
- 39234 MONTHULE, P. Du bon cidre pour les bons hôtels. Monit. Agr. 1(50/51): 12. Dec. 25, 1948/Jan. 1, 1949. 14 M744
- 39235 MOSER, L. Warum ist der Wein so teuer? Österr. Weinztg. 4: 25-26. Jan. 22, 1949. 390.8 Os7
- 39236 NEUNER, J. Das abziehen des weines vom Lager. Landwirtschaft 1948: 357-358. Dec. 20, 1948. 19 L235
- 39237 NIELSEN, E. Random thoughts on coffee research. Frontier 11(4): 11, 14-15, 17. Dec. 1948. 470 F92
- 39238 NORTON, B. J. What the wine wholesaler expects from the winery in merchandising and advertising aids. Wine Rev. 16(12): 12-13. Dec. 1948. 390.8 W722
- 39239 OHL, R. Warum nicht Runkelbier? Kurzbrieft. Ernährung u. Landw. 11: B IV 3b, 2 p. (To be cont.) Nov. 1948. 281.8 K96
- 39240 OSTERWALDER, A. Vom Mäuselgeschmack der weine, Obst- und Beerenweine. Österr. Weinztg. 3: 414. (To be cont.) Dec. 18, 1948. 390.8 Os7
- 39241 PALMERIO, R. P. Coffee [Italy]. Gior. dei Pasticciieri e Confettieri 56: 313-314. Sept. 1948. 389.8 G432
- 39242 THE PART the wine wholesaler plays in the merchandising of wine. Wine Rev. 16(12): 10-11. Dec. 1948. 390.8 W722
- 39243 PELIKAN, L. Der Weinhandel in Kärnten. Österr. Weinztg. 4: 57. Feb. 19, 1949. 390.8 Os7
- 39244 PEYNAUD, E. Contribution à l'étude biochimique de la maturation du raisin et de la composition des vins. Lille, Sautai, 1948? 93 p. 390.1 P46
- 39245 PORRET, A. Économie viti-vinicole. In Balmer, J. R. Agriculture et viticulture, p. 150-153. Neuchâtel (Suisse), 1948. 33.21 B21 Switzerland.
- 39246 REICHART, R. Die Kellerwirtschaft in Handelskellereien zu Beginn unseres Jahrhunderts. Österr. Weinztg. 4: 62-63. Feb. 19, 1949. 390.8 Os7
- 39247 ROCASOLANO, C. Envejecimiento artificial de los aguardientes. Cult. Mod. 31: 418. Nov. 1948. 15 C89
- 39248 RODRÍGUEZ, M. La rancidez. Vinos, Viñas y Frutas 44: 267, 269. Dec. 1948. 9 Ag89
- 39249 ROUX, D. J. Chicory for delicious coffee. (In Afrikaans.) Landbouweekblad 30(1534): 38-40. Dec. 8, 1948. 24 L232
- 39250 RUSSELL, R. S. Government bulk buying; an economic and critical analysis of government purchasing: cocoa. Weekly Mkt. News & Mod. Farmer 27(5): 2. Feb. 3, 1949. 286.81 C762A Canada.
- 39251 SANCHEZ-MARROQUIN, A. Estudios sobre la microbiología del pulque. II-IV. Mex. Esc. Nac. de Cien. Biol. An. 5: 13-37. Ref. Nov. 15, 1948. 442.9 M573 English summary.
- 39252 SCHNEIDER, F. Der "1948 er." Landwirtschaft 1948: 322-323. Nov. 25, 1948. 19 L235 Chiefly on wine quality in Austria.
- 39253 SCURTI, F. The method proposed by Professor Pratolongo in order to distinguish the alcohol-vinegars from the artificial ones. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 643-652. 1948. 16 Ah76 English summary.
- 39254 SHERWOOD, P. W. Wealth from winery wastes. Wynboer 17(307): 21, 28. Dec. 1948. 390.8 W724
- 39255 SIDARAS, A. P. Determination of carbon black in chocolate. Assoc. Off. Agr. Chem. J. 32(1): 135-138. Feb. 15, 1949. 381 As7
- 39256 SILVEIRA, A. H. DA. How to make wine from oranges. (In Portuguese.) Lav. Arroz. 2(22): 24. Oct. 1948. 59.8 L39
- 39257 SWING, J. M. Cinnamon in Ceylon. Spice Mill 72(2): 47-48. Feb. 1949. 389.8 Sp4
- 39258 WAHAB, A., WITZKE, W., and CRUESS, W. V. Experiments with ester forming yeasts. Fruit Prod. J. & Amer. Food Mfr. 28: 198-200, 202, 219. Mar. 1949. 389.8 F94 In wine manufacture.
- 39259 WINE INSTITUTE. TECHNICAL ADVISORY COMMITTEE. The problem of oxidation of white wines. Wine Rev. 17(2): 12, 20. Feb. 1949. 390.8 W722
- 39260 WIRTH, H. Der Weinbau in Württemberg-Baden. Statist. Monatsh. Württemberg-Baden 3(1): 7-10. Jan. 1949. 265 St24

## DAIRY PRODUCTS

- 39261 ABL. Die Ausbildung des Milchleistungsprüfungspersonals. Tierzucht 2: 134-136. Sept. 1948. 49 T443
- 39262 AGENDA de l'industrie laitière, 42d, 1949. 1948? 160 p. 44.8 Ag3 France.
- 39263 ARANIBAR U., A. Debemos aumentar el índice de consumo de leche y sus derivados. Agros [Cochabamba] 1: 43-45. Oct. 1948. 9.4 Ag86
- 39264 BARALE, L. S. El tambo en el Departamento Castellanos. Rev. SanCor 7(74/75): 6. Dec. 1948/Jan. 1949. 280.28 R322
- 39265 BARCOCK, C. J. Construction and arrangement of milk plants. U. S. D. A. C. 800, 36 p. Jan. 1949. 1 Ag84C
- 39266 BEAU, J. La situation laitière. Lait 28: 652-654. Nov./Dec. 1948. 44.8 L143
- 39267 BÉGIN, P. E. Le breuvage lacté au chocolat stimule la consommation totale du lait fluide. Québec Lait. 8(2): 13-14, 16. Feb. 1949. 44.8 Q3
- 39268 BENSON, H. A. The work of the American Dairy Association. Wash. State Col. Inst. Dairying Proc. 17: 149-153. 1948. 44.9 W27
- 39269 BOISSERON, DE. L'industrie laitière dans le Tarn. SPEL; B. Int. d'Inform. et de Doc. 3(11): 14-16. Nov. 1948. 44.8 Sp1
- 39270 BRAIDOT, S. Montasio cheese. (In Italian.) Latte 22(12): 8-12. Dec. 1948. 44.8 L35
- 39271 BRIGGS, F. A. We asked the men who know. Farm & Ranch 68(3): 15, 16, 18-19. Mar. 1949. 6 T31 Dairy industry in the Southwest.
- 39272 BURG, J. V. D. The dairy industry in the past. (In Friesian.) Friesch Landbouwblad 46: 20. Jan. 14, 1949. 12 F91
- 39273 CARINUS, J. G. Improvement of the milk industry. Food Indus. So. Africa 1(9): 31, 30. Jan. 1949. 389.8 F7372
- 39274 CARNCROSS, J. W. The dairy situation. N. J. Farm Econ. Situation 1949: 3-8. Jan./Mar. 1949. 275.28 N4622
- 39275 DAIRY INDUSTRY COMMITTEE. Know your dairy industry. Washington, 1948. 6 p., folder. 281.344 D142K
- 39276 DETRICH, R. C. Heating, ventilating & air conditioning in the dairy industry. Wash. State Col. Inst. Dairying Proc. 17: 106-108. 1948. 44.9 W27
- 39277 DÖRGE, F. Gedanken zur Ausbildung von Milch-wirtschaftlichem Fachpersonal. Süddeut. Molk.-Ztg. 69: 108-109. May 5, 1948. 44.8 Su2
- 39278 ESCHÉ, E. Betriebsgrösse und Kapazitätsausnutzung als Erfolgsfaktoren in der Molkereiwirtschaft. Süddeut. Molk.-Ztg. 69: 172-174. (To be cont.) July 15, 1948. 44.8 Su2
- 39279 FRITZ, A. Die Personalkosten in Emmentaler-Käseereien. Süddeut. Molk.-Ztg. 69: 106-107. May 5, 1948. 44.8 Su2



- 39280 GARMAN, D. Why goat's milk? Calif. Dairyman 29(2): 21-22. Feb. 26, 1949. 44.8 C12
- 39281 GLÜNDER, H. G. Die neue lage in der milchwirtschaft. Süddeut. Molk.-Ztg. 69: 170-172. July 15, 1948. 44.8 Su2
- 39282 GRAVES, E. F. Dairying in Alaska. Hoard's Dairyman 93(21): 808. Nov. 10, 1948. 44.8 H65
- 39283 GRINDAKER, A. The dairy institute and the experimentation creamery. (In Norwegian.) Meieriposten 38: 91-99. Feb. 12, 1949. 44.8 M47  
Design for new buildings.
- 39284 GSCHWEND, K. Recht und wirtschaft in der zeitlupe. Süddeut. Molk.-Ztg. 69: 243. Aug. 26, 1948. 44.8 Su2
- 39285 GUSLER, G. What's ahead for dairymen? Ohio Farmer 203(5): 38-39. Mar. 5, 1949. 6 Oh3
- 39286 HARRINGTON, A. H. Supply and demand for dairy products in the State of Washington. Wash. State Col. Inst. Dairying Proc. 17: 53-71. 1948. 44.9 W27
- 39287 HEDRICK, T. I. Milk fat; how the product is manufactured and packaged—its advantages and potential uses. Milk Plant Monthly 37(10): 80-83. Oct. 1948. 44.8 C864
- 39288 HENDERSON, T. G. Legislation and the milk supply [Great Britain]. Scot. Farmer 57: 408. Jan. 29, 1949. 10 Sco8
- 39289 HEUER, E. F., and HOFFMANN, L. Möglichkeiten und ausblicke für die hessischen milchwirtschaft. Süddeut. Molk.-Ztg. 69: 226-228. Aug. 26, 1948. 44.8 Su2
- 39290 HOFBAUER, J. Die milchwirtschaft in der Bizone. Süddeut. Molk.-Ztg. 69: 222-223. Aug. 26, 1948. 44.8 Su2
- 39291 KENTUCKY. UNIVERSITY. DEPT. OF MARKETS AND RURAL FINANCE. Kentucky's dairy industry. South. Dairy Prod. J. 45(3): 42-43, 46. Mar. 1949. 44.8 So83
- 39292 KNUDSEN, S. Dairy science. In The humanities and the sciences in Denmark, p. 596-601. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- 39293 LAMBERT, MRS. L. Goats' butter for the household. Brit. Goat Soc. Ybk. 1949: 55-56. 40.19 B77
- 39294 MCFARLAND, E. They made Wisconsin America's dairyland. Wis. Country Mag. 42(5): 12, 25. Feb. 1949. 276.8 St9
- 39295 MAYER-DIETFURT, H. Betriebskontrolle durch fabrikkationstabellen. Süddeut. Molk.-Ztg. 69: 256-257. Aug. 26, 1948. 44.8 Su2
- 39296 MICHELSEN, S. The butter industry in south-west Africa. Food Indus. So. Africa 1(10): 39-41. Feb. 1949. 389.8 F7372
- 39297 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. A long look at the northeastern milk supply. Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 27, 21 p. May 27, 1948. 280.3449 M593
- 39298 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Which market is shorter of milk, New York or Boston? Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 20, 4 p. Oct. 30, 1947. 280.3449 M593
- 39299 MITTEN, H. L., JR. Milk plant layout. (Abs.) Milk Plant Monthly 38(3): 73, 75. Mar. 1949. 44.8 C864
- 39300 MORI, C. DE. Milk and the ice cream industry. (In Italian.) Mondo del Latte 1949(1): 3, 5, 7-8, 25. Jan. 1949. 44.8 M74  
Summary in French and English.
- 39301 NELLIS, C. C. Shades of the past: the story of Herkimer County, N. Y., cradle of the American cheese industry. Natl. Butter & Cheese J. 40(3): 18-19, 64. Mar. 1949. 286.85 B98Bu
- 39302 OFFICE TECHNIQUE DE L'INDUSTRIE LAITIÈRE. Construction et transformation des laiteries. Tech. Lait. 4(44): 15-18. (Cont.) Nov. 8, 1948. 44.8 Of2
- 39303 PARISI, P. Technical arguments on the present situation of Parmesan cheese. (In Italian.) Mondo del Latte 1949(1): 21, 23, 25. Jan. 1949. 44.8 M74
- 39304 PATTERSON, H. L. Dairy farm business in Alberta 1939 to 1943. Canada Dept. Agr. P. 812, 84 p. Dec. 1948. 7 C16T
- 39305 PETERMANN, P. Mainzer handkäse. Süddeut. Molk.-Ztg. 69: 232. Aug. 26, 1948. 44.8 Su2
- 39306 PETERSEN, W. E. Dairying down under. Land O'Lakes News 29(2): 3-4. Feb. 1949. 44.8 L22  
Australia and New Zealand.
- 39307 PFLIMLIN. Principes généraux de l'action gouvernementale en matière de produits laitiers. SPEL; B. Int. d'Inform. et de Doc. 3(11): 22-23. Nov. 1948. 44.8 Spl  
France.
- 39308 PICKEL, W. Wandlungen am weltmarkt für butter und käse. Süddeut. Molk.-Ztg. 69: 233-235. Aug. 26, 1948. 44.8 Su2
- 39309 RIBEIRO, J. A. Milk and dairy products section of the SALTE Plan. 2. (In Portuguese.) B. do Leite (ser. 4) 2(14): 9-11, 13. Aug. 1948. 44.8 B633  
Brazil.
- 39310 ROBINSON, H. W. Two great health foods. Amer. Dairy Goat News 10(9): 11. Mar. 1949. 40.18 Am34  
Yoghurt and goat milk.
- 39311 ROF CODINA, J. Las industrias lecheras en el Noroeste de España. Cult. Mod. 31: 446-449. Dec. 1948. 15 C89
- 39312 RÜTERS, P. Über den nutzen des ekonomisers in dampfkesselbetrieben. Süddeut. Molk.-Ztg. 69: 107-108. May 5, 1948. 44.8 Su2
- 39313 SALANOUBAT, G. Rapport sur le stockage des beurres et fromages et le marché des œufs. Crémérie Franç. 95: 18-20. Jan. 15/20, 1949. 44.8 C867
- 39314 SANDOZ, F. Les industries agricoles. A. Industrie laitière. In Balmer, J. R. Agriculture et viticulture, p. 64-71. Neuchâtel (Suisse), 1948. 33.21 B21  
Switzerland.
- 39315 SCHROTH, H. Bemühungen um die trinkmilchversorgung der stadt Frankfurt a. M. Süddeut. Molk.-Ztg. 69: 272-273. Sept. 2, 1948. 44.8 Su2
- 39316 SEN, K. C., and LAXMINARAYANA, H. Some public health aspects of milk industry in India. IV. Milk position in India and its improvement. Indian Farming 9: 321-327. Aug. 1948. 22 In283
- 39317 SHIPLEY, W. C. Dairy factories in eastern Ontario and southern Quebec. Econ. Annal. 19(1): 17-20. Feb. 1949. 281.8 Ec72
- 39318 SKREDEN, I. The dairy industry in Trøndelag in 1948. (In Norwegian.) Meieriposten 38: 74-77. Feb. 5, 1949. 44.8 M47
- 39319 SPARAPANI, G. C. The cheeses of Castelsanpietro E. (In Italian.) Latte 22(11): 13-14. Nov. 1948. 44.8 L35
- 39320 SPIERS, R. J. Plastic cream, its production and uses. (Abs.) Milk Plant Monthly 37(10): 122-123. Oct. 1948. 44.8 C864
- 39321 SPRENGLER. Ein spitzen-milcheistungsbetrieb. Landw. Wchnbl. 138: 413. (Cont.) Dec. 4, 1948. 18 L2338  
Germany.
- 39322 SWITZERLAND. SCHWEIZERISCHE MILCHKOMMISSION. Die schweizerische milchwirtschaft. Thun, Verlags-Aktiengesellschaft Thun, 1948. 943 p. 44 Sw62
- 39323 TARARIRAS, URUGUAY. EXPOSICIÓN NACIONAL DE GANADO LECHERO, PRODUCTOS LÁCTEOS, DE GRANJA Y CONCURSO DE PRODUCCIÓN LECHERA, 2D, 1948.. Reglamento. Tarariras? 1948? 24 p. 44.9 T172
- 39324 THEISNER, A. B. National Dairy Council. Mich. Milk Messenger 30(11): 1, 6. Mar. 1949. 44.8 M582
- 39325 THOMASSON, H. L. Effective dairy plant design. South. Dairy Prod. J. 44(5): 136-137, 146, 150. Nov. 1948. 44.8 So83
- 39326 THOMSEN, L. C. Operating costs and plant efficiency. Wash. State Col. Inst. Dairying Proc. 17: 75-82. 1948. 44.9 W27
- 39327 VARNEY, H. H. Production and market trends. Mich. Milk Messenger 30(11): 1, 4. Mar. 1949. 44.8 M582
- 39328 VAUVEL, J. Huit années d'économie laitière. Tech. Lait. 4(44): 21-22. (Cont.) Nov. 8, 1948. 44.8 Of2  
France.



39329 WASHINGTON. STATE COLLEGE. INSTITUTE OF DAIRYING. Proceedings, 17th, 1948. 1948? 189 p. 44.9 W27

39330 WEBER, K. Lehren aus dem aufbau und den kämpfen in der nordamerikanischen milchwirtschaft. Württemb. Wchnbl. f. Landw. 116: 49-50. Jan. 29, 1949. 18 W96

39331 WEKRE, E. Milk production and dairy industry in the Netherlands. (In Norwegian.) Meieriposten 37: 577-581, 590-598, 607-613, 621-627, 644-646, 660-664, 675-678, 769-774, 821-828. (Cont.) Aug. 4, Sept. 11-Oct. 16, Nov. 27, Dec. 18, 1948. 44.8 M47

39332 WYLIE, C. E. The South's dairy industry. Natl. Butter & Cheese J. 40(3): 50, 52. Mar. 1949. 286.85 B98Bu

39333 ZATTA, P. "Asiago" cheese. (In Italian.) Latte 22(10): 9-10. Oct. 1948. 44.8 L35

#### Analysis and Composition

39334 ARNOULD, C. Les laits acides et alcalins. Monit. Agr. 2(55): 4. Jan. 30, 1949. 14 M744

39335 BROUWER, T. On the correction in the butyrometric determination of fat in milk powder by the Gerber-Van Gulik method. Nederlands Melk-en Zuivel-tijdschr. 2: 185-193. Oct./Dec. 1948. 44.8 N283

Dutch summary.

39336 CAMPBELL, J. J. R., and KONOWALCHUK, J. Comparison of "drop" and "pour" plate counts of bacteria in raw milk. Canad. J. Res. Sect. E, Med. Sci. 26: 327-329. Dec. 1948. 470 C16E

39337 CHALMERS, C. H. The examination of milk supplies. Dairyman 66(2): 61-64. Feb. 1949. 44.8 D1426

39338 CHURINA, N. Methods of determining casein in milk. (In Russian.) Moloch. Promysh. 9(8): 25-27. Aug. 1948. 44.8 M734

39339 DUMAIS, R. La qualité du lait. 1. Ses éléments constitutifs. Québec Lait. 8(1): 10-11. Jan. 1949. 44.8 Q3

39340 DÜRRWAECHTER. Ein schwieriger fall; die fettgehaltsbestimmung der milch. Landw. Wchnbl. 138: 445-446. Dec. 18, 1948. 18 L2338

39341 FRIEDEL, G., and FRIEDEL, H. Der kasein-körper der milch in nahrungsaufbau und vorrattswirtschaft. Süddeut. Molk.-Ztg. 69: 250-256. Aug. 26, 1948. 44.8 Su2

39342 GÉNIN, G. La recherche chimique et l'industrie du lait. Lait 28: 569-580. Nov./Dec. 1948. 44.8 L143

39343 GOLDING, N. S. Grading milk with the Resazurin test. Wash. State Col. Inst. Dairying Proc. 17: 170-171. 1948. 44.9 W27

39344 GOULD, I. A., and STOUT, R. E. Fat variations in milk. 2. Milk Plant Monthly 38(3): 36-40. Mar. 1949. 44.8 C864

39345 HETRICK, J. H., and WHITNEY, R. M. Determination of nitrogen in milk by direct nesslerization of the digested sample. J. Dairy Sci. 32: 111-122. Ref. Feb. 1949. 44.8 J822

39346 HUREL, and PETRANSXIENNE. Les streptocoques lactiques. SPEL; B. Int. d'Inform. et de Doc. 3(11): 37-41. Nov. 1948. 44.8 Sp1

39347 KIEFERLE, F., and FEICHTNER, C. Die ermittlung des fettgehaltes von hochprozentigem rahm. Süddeut. Molk.-Ztg. 69: 245-248. Aug. 26, 1948. 44.8 Su2

39348 KRUKOVSKY, V. N. Ascorbic acid oxidation in milk by preformed hydrogen peroxide. J. Dairy Sci. 32: 163-165. Feb. 1949. 44.8 J822

39349 MARÇAL, J. M. C. Coliform bacteria in milk. (In Portuguese.) B. do Leite (ser. 4) 2(14): 1-5, 7. Ref. Aug. 1948. 44.8 B633

39350 MASSART, L., and VANDERHOEVEN, D. The basophily of casein. Arch. Internat. de Pharmacodyn. et de Théor. 77: 369-374. Nov. 1, 1948. 44.8 Ar226

French summary.

39351 MAYR. Praktische hinweise zur fettgehaltsbe-zahlung. Süddeut. Molk.-Ztg. 69: 273-275. Sept. 2, 1948. 44.8 Su2

39352 MILK INDUSTRY FOUNDATION. Laboratory manual; methods of analysis of milk and its products. Ed. 2. Washington, 1949. 629 p. Ref. 44 M592L

39353 MILLER, D. D. The control of molds. Wash. State Col. Inst. Dairying Proc. 17: 124-130. Ref. 1948. 44.9 W27

39354 MILLER, D. D., and GOLDING, N. S. The gas requirements of molds. V. The minimum oxygen requirements for normal growth and for germination of six mold cultures. J. Dairy Sci. 32: 101-110. Ref. Feb. 1949, 44.8 J822

39355 MÖLLER, E. F. Mikrobiologische bestimmung von wuchsstoffen in normal- und silagemilch. Milch-wissenschaft 4(1): 14-18. Ref. Jan. 1949. 44.8 M5933

Summary in English.

39356 MULL, L. E., and FOUTS, E. L. A laboratory program for the dairy plant. Fla. Agr. Expt. Sta. B. 449, 30 p. Oct. 1948. 100 F663

Testing dairy products.

39357 NATAF, B., and others. The cholestrol content of cows' milk. J. Nutr. 36: 495-506. Ref. Oct. 11, 1948. 389.8 J82

O. Mickelsen, A. Keys, and W. E. Petersen, joint authors.

39358 NIKOLAEV, A. Device for determining acidity of milk. (In Russian.) Moloch. Promysh. 9(8): 46. Aug. 1948. 44.8 M734

39359 RADEMA, L., and MULDER, H. Methods for determining the fat content of milk. I-II. Nederlands Melk-en Zuiveltijdschr. 2: 204-209, 210-222. Ref. Oct./Dec. 1948. 44.8 N283

I. The Röse-Gottlieb method; II. The Gerber method. Dutch summary.

39360 ROEDER, G. Schnellmethoden zur biologischen prüfung der milch. Süddeut. Molk.-Ztg. 69: 72-74. Mar. 25, 1948. 44.8 Su2

39361 ROTH, H. Der einfluss von p-aminobenzoe-säure und sulfonamiden auf das Schardinger enzym und die peroxydase der milch. Milchwissenschaft 4: 18-23, 47-53. (To be cont.) Jan.-Feb. 1949. 44.8 M5933

39362 SEARING, L. D. Direct vs. plate counts. Wash. State Col. Inst. Dairying Proc. 17: 33-39. 1948. 44.9 W27

39363 STANDARDIZATION of methods for the analysis of milk and dairy products in the Netherlands. I. Nederlands Melk-en Zuiveltijdschr. 2: 194-203. Oct./Dec. 1948. 44.8 N283

39364 TITOV, A. Determination of fat content in creams with a high content of fat. (In Russian.) Moloch. Promysh. 9(8): 45-46. Aug. 1948. 44.8 M734

39365 ZARETT, A. J., and DOETSCH, R. N. A new selective medium for the quantitative determination of members of the genus Proteus in milk. J. Bact. 57: 266. Feb. 1949. 44.8 J82

#### Consumption and Utilization

39366 BIANCHI, G. Utilization of milk byproducts. (In Italian.) Latte 22(12): 15-18. Dec. 1948. 44.8 L35

39367 DALLAS, T. E. Milk and baked foods. Bakers Weekly 141(11): 47-49, 58. Mar. 14, 1949. 389.8 B172

39368 DAVIDSON, E. J. Good butter can regain consumption rate. Creamery J. 60(3): 5, 26, 30-31. Mar. 1949. 44.8 C86

39369 LUKE, H. A. Utilization and pricing of milk. Metrop. Milk Prod. News 9(2): 18-19. Feb. 1949. 280.28 M56

39370 MÉNARD, G. Notre pain quotidien avec plus de poudre de lait. Québec Lait. 8(1): 17-18. Jan. 1949. 44.8 Q3

39371 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Recent changes in cream consumption in the Northeast. Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 26, 8 p. Apr. 29, 1948. 280.3449 M593

39372 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Recent changes in milk consumption in the Northeast. Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 25, 12 p. Mar. 25, 1948. 280.3449 M593

39373 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Recent trends in cream consumption in northeastern markets. Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 16, 7 p. June 25, 1947. 280.3449 M593



39374 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Recent trends in milk consumption in northeastern markets. Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 15, 8 p. May 27, 1947. 280.3449 M593

39375 SCHULZE, A. Molke im brot. Süddeut. Molk.-Ztg. 69: 84-85. Apr. 8, 1948. 44.8 Su2

39376 SPENCER, L. The future of milk consumption; a review of the main factors influencing milk consumption. Milk Plant Monthly 37(10): 124-130. Oct. 1948. 44.8 C864

39377 WINTERS, S. R. Milk sales vary with family incomes. Hoard's Dairyman 94: 19. Jan. 10, 1949. 44.8 H65

39378 ZEILER, K. Molkenverwertung nach der währungsumstellung. Süddeut. Molk.-Ztg. 69: 244-245. Aug. 26, 1948. 44.8 Su2

#### Distribution, Marketing, and Transportation

39379 DEYSENROTH, C. F. Winter ice cream promotion. Ice Cream Rev. 32(7): 68, 70. Feb. 1949. 389.8 Ic22

39380 FLOTOW, G. VON. Marktordnung und bewirtschaftung von molke. Süddeut. Molk.-Ztg. 69: 82-84. Apr. 8, 1948. 44.8 Su2

39381 FLÜCKIGER, E. Die werbung im dienste der milchwirtschaft. In Switzerland. Schweizerische Milchkommission. Die schweizerische Milchwirtschaft, p. 847-866. Thun, 1948. 44 Sw62

39382 GAUFF, W. E. Here's how of a sales campaign. Guernsey Breeders' J. 75: 881-884, 908. Mar. 15, 1949. 43.8 G93

Dairymen's Association, Ltd., of Hawaii markets Golden Guernsey milk at a premium.

39383 INDIA. CENTRAL AGRICULTURAL MARKETING DEPT. Report on the marketing of ghee and other milk products in India. India. Cent. Agr. Mktg. Dept. Mktg. Ser. 56, 230 p. 1948. 280.39 In2

39384 IVARSON, E. Marketing of dairy products in 1948. (In Norwegian.) Meieriposten 38: 37-41. Jan. 22, 1949. 44.8 M47

39385 KNIGHT, T. A sales contest for buttermilk and chocolate drink. Milk Plant Monthly 37(10): 105-106. Oct. 1948. 44.8 C864

39386 KOCZERA, F. Die milchanlieferung nach Wien. Österr. Milch- u. Fettwirtschaft 4: 3-5. Jan. 1949. 44.8 Os72

39387 LABLANCHY, A. Grâce à sa valeur alimentaire le sérum doit trouver de nombreux débouchés. J. de la France Agr. 5: 15. Jan. 14/20, 1949. 14 J829

39388 LABLANCHY, A. Le marché métropolitain peut-il absorber les sous-produits du lait? J. de la France Agr. 5: 63. Feb. 11/17, 1949. 14 J829

39389 LACKNER, C. E. Value of competition on dairy products. Canad. Dairy & Ice Cream J. 28(2): 80, 82, 90. Feb. 1949. 44.8 C162

39390 MCDONALD, J. Merchandising packaged ice cream. Wash. State Col. Inst. Dairying Proc. 17: 176-179. 1948. 44.9 W27

39391 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Opening the New York market and the price of milk for ice cream in New York City. Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 30, 18 p. Aug. 19, 1948. 280.3449 M593

39392 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. The volume of New York pool milk east of the Hudson River and Lake Champlain. Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 17, 9 p. July 25, 1947. 280.3449 M593

39393 MÜLLER, J. Lebensmittelrechtliches über den verkehr mit milch. Süddeut. Molk.-Ztg. 69: 118-120. May 20, 1948. 44.8 Su2

39394 PLESSIS, P. Le transport automobile dans l'industrie laitière. Tech. Lait. 5(47): 29-31. Feb. 11, 1949. 44.8 Of2

39395 ROBICHAUX, R. Let's make butter that sells itself. Creamery J. 60: 5, 27. Feb. 1949. 44.8 C86

Public relations.

39396 STORY, R. P. Cost of milk distribution in local Vermont markets. Vt. Agr. Expt. Sta. B. 545, 36 p. Nov. 1948. 100 V59

39397 VALENTINE, D. Press relations and publicity for your dairy. Milk Plant Monthly 38(3): 47-48, 50. Mar. 1949. 44.8 C864

39398 VALENTINE, D. Public relations is a lot of little things. Milk Plant Monthly 38(3): 82-83. Mar. 1949. 44.8 C864

39399 WEBER, K. Verhältnis landwirtschaft/milchhandel. Württemb. Wchnbl. f. Landw. 116: 26. Jan. 15, 1949. 18 W96

39400 WELCH, W. F. A practical approach: your advertising problems. South. Dairy Prod. J. 44(5): 66-67, 77. Nov. 1948. 44.8 So83

39401 WRIGHT, E. Interstate shipment of fluid milk supplies. Assoc. Food & Drug Off. U. S. Q. B. 13: 19-23. Jan. 1949. 389.9 As7Q

#### Grading, Inspection, Standardization, and Quality

39402 ADAMS, C. S. Factory milk quality problems. Wash. State Col. Inst. Dairying Proc. 17: 114-118. 1948. 44.9 W27

39403 ANDERSON, E. B., and MEANWELL, L. J. Raw milk quality and pasteurisation. (Abs.) Dairyman 66(2): 67. Feb. 1949. 44.8 D1426

39404 ANDERSON, H. S. Inspection of dairy products. Canad. Dairy & Ice Cream J. 28(2): 52, 54. Feb. 1949. 44.8 C162

39405 ARMSTRONG, C. Frozen milk proves costly. East. Milk Prod. 25(3): 13. Mar. 1949. 280.28 Sh3

39406 BEATTIE, D. M. Review of the grading and inspection of dairy products during 1948. Canad. Dairy & Ice Cream J. 28(2): 44-46, 48, 50, 86, 88. Feb. 1949. 44.8 C162

39407 BRINDLEY, M. Taints in milk. Dairyman 66(2): 75. Feb. 1949. 44.8 D1426

39408 CAMINOPETROS, J. Q fever, a respiratory human epidemic disease in the Mediterranean area, determined a milk-borne infection from goats and sheep. U. S. Dept. State. Internatl. Organ & Conf. Ser. I. Gen. 5 (1): 441-449. 1948. 150 In822

39409 CAVÁNDOLI, H. E. Inspección sanitaria de helados. Buenos Aires. Cent. de Estud. de Med. Vet. Rev. 17(26): 63-70. Apr./June 1948. 41.9 B86

39410 DEMETER, K. J., JANOSCHEK, A., and RAU, A. Beitrag zur käseereitfähigkeit von silomilch und bakteriologie des Tilsiter käses. Milchwissenschaft 4(1): 3-14. Jan. 1949. 44.8 M5933

Summary in English.

39411 DRAKE, J. B. A report relative to milk and dairy inspection in California and Oregon. Wash. State Col. Inst. Dairying Proc. 17: 154-156. 1948. 44.9 W27

39412 DUMAIS, R. La qualité du lait. II. Ses causes de détérioration. Québec Lait. 8(2): 21-22, 24. Feb. 1949. 44.8 Q3

39413 EAGERTON, H. Milk Control Board. Ala. Farmer 27(5): 8, 12, 14. Feb. 1949. 276.8 AL1

39414 GORINI, C. Protection of Gorgonzola. (In Italian.) Latte 22(12): 12. Dec. 1948. 44.8 L35

39415 GREENE, H. Certification helps market goat milk. Dairy Goat J. 27(3): 5-6. Mar. 1949. 40.18 M592

39416 HOOD, E. G., GIBSON, C. A., and BOWEN, J. F. Lipolytic bacteria a cause of rancidity in Cheddar cheese. Canad. Dairy & Ice Cream J. 28(2): 27-30, 88. Feb. 1949. 44.8 C162

39417 KELLERMANN, R. Vergleichende versuche über die haltbarkeit von alfabutter und sauerrahmbutter. Milchwissenschaft 4: 40-46. Feb. 1949. 44.8 M5933

Summary in English.

39418 KILLICK, C. H. P. A cream improvement programme. Canad. Dairy & Ice Cream J. 28(2): 40-43, 90. Feb. 1949. 44.8 C162

39419 KÜRSTEINER, J. Wie ein sbrinkkäse eine qualitätsproduktion erreicht und auf der höhe hält. Schweiz. Zentbl. f. Milchw. 38: 33-34. Feb. 18, 1949. 44.8 Sch93

39420 LINON, G. Sur l'interdiction de mettre en vente et de vendre du lait provenant d'étables déclarées infectées de fièvre aphteuse. Rev. de Méd. Vét. [Toulouse] (n. s.) 12: 43-45. Jan. 1949. 41.8 R32

39421 MANTOBA. MILK CONTROL BD. Annual report 1948. 1949? 25 p. 280.3449 M31

39422 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Outside class I milk in northeastern markets. Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 21, 8 p. Nov. 26, 1947. 280.3449 M593



39423 MOORE, A. V. The effect of quaternary ammonium sanitizers on the quality of milk. *South. Dairy Prod. J.* 44(5): 62-64. Nov. 1948. 44.8 So83

39424 NEWLANDER, J. A. Flavors in milk; causes and prevention. *Milk Plant Monthly* 38(3): 42, 44-45. Mar. 1949. 44.8 C864

39425 QUADRI, P. On the classification of grana cheese. (In Italian.) *Latte* 22(11): 9-10. Nov. 1948. 44.8 L35

39426 REISER, C. L. Common defects observed while grading butter and cheese on terminal markets. *Wash. State Col. Inst. Dairying Proc.* 17: 92-96. 1948. 44.9 W27

39427 SASKATCHEWAN. MILK CONTROL BD. Annual report, 1948. 1949. 11 p. 280.3449 So7

39428 STEVENS, G. P. Utah butter makes a story; high quality product develops from humble start. *Utah Farmer* 68(13): 10, 24. Feb. 26, 1949. 6 D45

39429 THIEULIN, G., and VUILLAUME, R. Éléments pratiques d'analyse et d'inspection du lait. *Acad. d'Agr. de France. Compt. Rend.* 34: 953-954. Dec. 8/22, 1948. 14 P215Bc

39430 TROUT, G. M., and BRUNNER, J. R. Observations on rough or "spotty" homogenized milk. *Milk Plant Monthly* 37(10): 92-94. Oct. 1948. 44.8 C864

39431 VERGE, J., and others. Recherches sur la virulence des laits provenant de vaches à réaction tuberculinique positive. *Acad. Natl. de Méd. B.* 132: 576-578. Nov. 2/9, 1948. 44.8 P21

P. Saurat, P. Groulade, and R. Gaumont, joint authors.  
39432 WARREN, F. G. Observations on the instability of the protein phase of frozen concentrated skim milk. *Pa. State Col. Abs. Doct. Diss.* (1947) 10: 166-170. 1948. 241.8 P38

39433 WIDEMIRE, E. L. Status of proposed standards on ice cream. *Ice Cream Rev.* 32(7): 58, 60. Feb. 1949. 389.8 Ic22

39434 ZEILINGER, A. Qualitätsförderung im Bauernhaus. *Osterr. Milch- u. Fettwirtschaft* 4: 2-3. Jan. 1949. 44.8 Os72

#### Packing and Packaging

39435 ARMERDING, G. D. Milk cans versus tank trucks. *Wash. State Col. Inst. Dairying Proc.* 17: 131-136. 1948. 44.9 W27

39436 CARVALHO E SILVA, O. M. DE. Sanitation of containers. (In Portuguese.) *Granja [Porto Alegre]* 4(36/37): 41-42. Sept./Oct. 1948. 9.2 G76

For milk.  
39437 CORDILL, C. C. Experiences with paper milk bottles. *Wash. State Col. Inst. Dairying Proc.* 17: 172-174. 1948. 44.9 W27

Discussion by H. Bailey, p. 174-175.

39438 ERBACHER, E. Das verpackungsmaterial für käse. *Süddeut. Molck.-Ztg.* 69: 74-75. (Cont.) Mar. 25, 1948. 44.8 Su2

39439 HAVIGHORST, C. R. Ice cream servings in "dice" form. *Food Indus.* 21: 297-299. Mar. 1949. 389.8 F737

39440 HEINEMANN, H. B. Operation and inspection of can washers. *South. Dairy Prod. J.* 44(5): 140-141, 144-145. Nov. 1948. 44.8 So83

39441 JONES, L. H. Latest developments in the packaging of natural cheese. *Wash. State Col. Inst. Dairying Proc.* 17: 109-113. 1948. 44.9 W27

39442 LOMAS, J. A new fully automatic packaging machine and other ice cream news. *Dairy Indus.* 14: 200-201. Feb. 1949. 44.8 D1427

39443 NESBITT, J. M. Butter packaging. *Canad. Dairy & Ice Cream J.* 28(2): 56, 58, 60. Feb. 1949. 44.8 C162

39444 PFEFFER, J. C. Package ice cream. *Confectionery-Ice Cream World* 41(8): 11. Feb. 25, 1949. 389.8 C767

39445 SEMASHKO, A. Duplex semiautomatic machine for packing processed cheese. (In Russian.) *Moloch. Promysh.* 9(8): 44. Aug. 1948. 44.8 M734

39446 SHOGREN, C. B. Mechanical can washing. *Milk Plant Monthly* 38(3): 76-77. Mar. 1949. 44.8 C864  
Also in *Creamery J.* 60(3): 8. Mar. 1949. 44.8 C86

39447 THOMSEN, L. C. Packaging butter. *Wash. State Col. Inst. Dairying Proc.* 17: 119-123. 1948. 44.9 W27

39448 THOMSEN, L. C., and FROKER, R. K. Packaging of butter for retail sales. *Wis. Agr. Sta. B.* 481, 16 p. Nov. 1948. 100 W75

39449 TRACY, P. H. A study of milk can washing. *Wash. State Col. Inst. Dairying Proc.* 17: 87-91. 1948. 44.9 W27

#### Prices, Price Control, and Rationing

39450 ALEXANDER, W. H., and LAW, J. M. Formula pricing of class I milk in the New Orleans milkshed. *La. Agr. Expt. Sta. Mimeog.* C. 89, 39 p. Feb. 1949. 100 L935

39451 CHRISTIAN, C. F. Where are milk prices headed? *Ohio Farmer* 203(5): 24-25. Mar. 5, 1949. 6 Oh3

39452 GLÜNDER, H. G. Die gegenwärtige und zukünftige preisgestaltung in der milchwirtschaft. *Süddeut. Molck.-Ztg.* 69: 229-231. Aug. 26, 1948. 44.8 Su2

39453 MAHN, H. Die milchpreiserhöhung. *Süddeut. Molck.-Ztg.* 69: 122-124. May 20, 1948. 44.8 Su2

39454 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. The Boston class I price formula. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 28, 1 p. June 23, 1948. 280.3449 M593

39455 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. The class I-A price formula, order No. 27; some of its shortcomings. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 18, 15 p. Aug. 22, 1947. 280.3449 M593

39456 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. The class I-A price formula, order No. 27; some ways it might be improved. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 19, 17 p. Sept. 29, 1947. 280.3449 M593

39457 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. The coordination of New York and Boston prices; some factors to be considered. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 24, 16 p. Feb. 26, 1948. 280.3449 M593

39458 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. The dealers' spread. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 11, 8 p. Jan. 22, 1947. 280.3449 M593

39459 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Formula pricing of class I milk. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 22, 1 p. Dec. 19, 1947. 280.3449 M593

39460 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Inefficient pricing of milk. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 29, 18 p. July 21, 1948. 280.3449 M593

39461 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. New York class I-A and uniform price vs. Boston class I and uniform price. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 23, 21 p. Jan. 26, 1948. 280.3449 M593

39462 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Prices of skim milk. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 13, 1 p. Mar. 31, 1947. 280.3449 M593

39463 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Pricing and utilization of skim milk. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 31, 15 p. Sept. 16, 1948. 280.3449 M593

39464 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Strange, unusual and peculiar price relationships. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 34, 7 p. Dec. 17, 1948. 280.3449 M593

39465 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. Volume and price of milk used for fluid cream in special cream area class II-C. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 32, 9 p. Oct. 27, 1948. 280.3449 M593

39466 MILK DEALERS' ASSOCIATION OF METROPOLITAN NEW YORK, INC. What the closed cream market and order 27 have done to the price of cream in New York. *Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let.* 14, 10 p. Apr. 24, 1947. 280.3449 M593



39467 NEW YORK MILK SHED PRICE COMMITTEE. Report. Dairymen's League News 33(4): 3, 18-19, 22-23. Feb. 22, 1949. 44.8 D1432  
F. F. Hill, chairman.  
Summary statement.

39468 OTIS, J. R. Milk prices and dairy production. Ala. Tuskegee Inst. Ext. Negro Farmer 10(1, i. e. 2): 2. Feb. 1949. 275.28 N31

39469 PERDUE, P. Western milk prices collapse. Dairymen's League News 33(4): 1, 6-7. Feb. 22, 1949. 44.8 D1432

39470 LES PRIX du lait et des produits laitiers. SPEL; B. Int. d'Inform. et de Doc. 3(10): 17-24. Oct. 1948. 44.8 Sp1

39471 RABUFFO, V. M. Dealer prices, the major factor in 1949 planning for increased consumption of ice cream. Ice Cream Trade J. 45(2): 58-59, 81-84. Feb. 1949. 389.8 Ic2

39472 SPENCER, L. Important consideration in classified pricing of milk. 2. Metrop. Milk Prod. News 9(2): 23. Feb. 1949. 280.28 M56

39473 WELDEN, W. C. Surplus milk again looms as major factor in farm prices. Milkpail 1949: 1, 12. Feb./Mar. 1949. 44.8 M5932

39474 WINNIGSTEDT, R. Der neue milchpreis erfordert erhöhte werbung und bessere qualität. Süddeut. Mol.-Ztg. 69: 176. July 15, 1948. 44.8 Su2

39475 YOUNG, H. P. Handlers lose \$16,000,000. Metrop. Milk Prod. News 9(2): 2, 23. Feb. 1949. 280.28 M56  
Milk prices.

39476 YOUNG, H. P. Review of class 1 A milk pricing in 1948. Metrop. Milk Prod. News 9(2): 22. Feb. 1949. 280.28 M56

#### Processing and Storage

39477 ARNAUDI, C. Biogenetic factors in milk and cheese manufacture. (In Italian.) Mondo del Latte 1948(11): 23, 25-26. Nov. 1948. 44.8 M74  
Summary in French and English.

39478 ARNAUDI, C. Technical and professional research and instruction in the dairy and cheese field [Italy]. (In Italian.) Latte 22(11): 5-8. Nov. 1948. 44.8 L35

39479 ASHWORTH, U. S. Progress of milk powder research at the State College of Washington. Wash. State Col. Inst. Dairying Proc. 17: 27-29. 1948. 44.9 W27

39480 ATKINSON, T. C. D. Pasteurization—is it reliable? Food Indst. So. Africa 1(10): 29-30. Feb. 1949. 389.8 F7372  
Milk.

39481 BABCOCK, C. J., and others. Frozen homogenized milk. VI. The use of stabilizers in frozen homogenized milk. J. Dairy Sci. 32: 175-182. Ref. Feb. 1949. 44.8 J822

J. N. Stabile, E. S. Windham, and R. Randall, joint authors.

39482 BALLARIN, O. Dairy research in Great Britain. (In Portuguese.) B. do Leite (ser. 4) 2(16): 1-5. Oct. 1948. 44.8 B633

39483 BARKAN, S. Processed cheese. (In Russian.) Moloch. Promysh. 9(8): 32-36. Aug. 1948. 44.8 M734

39484 BARON, M. Further studies of rheological properties of cheese during manufacture and ripening. Dairy Indus. 14: 146-151. Feb. 1949. 44.8 D1427

39485 BAZAROV, A. Activation of rennet. (In Russian.) Moloch. Promysh. 9(8): 42-43. Aug. 1948. 44.8 M734

In cheese manufacture.

39486 BÉGIN, P. E. Les manipulations sanitaires du lait dans les usines de pasteurisation ou laiteries. Québec Lait. 8(2): 16. Feb. 1949. 44.8 Q3

39487 BENDIXEN, H. A. Milk powder studies go modern. Ice Cream Field 53(2): 44, 46, 49-50. Feb. 1949. 389.8 Ic23

39488 BENSON, M. Electric neutralization of milk. (In Russian.) Moloch. Promysh. 9(8): 37-40. Aug. 1948. 44.8 M734

Oxido-reduction equipment.

39489 BOYD, J. C. Storing raw milk in refrigerated stainless steel tanks. Wash. State Col. Inst. Dairying Proc. 17: 137-148. 1948. 44.9 W27

39490 BRYANT, C. B. A. The farm care of quality milk. United Farmers New England. News 8(8): 14-15. Feb. 1949. 6 Un35

39491 BRYANT, C. B. A. The farmer, the milk hauler, the fieldman, our quality team. 2. South. Dairy Prod. J. 44(5): 70-71, 74-76. Nov. 1948. 44.8 So83

39492 BUBNOV, D. Production of milk sugar. (In Russian.) Moloch. Promysh. 9(8): 11-15. Aug. 1948. 44.8 M734

39493 BURTON, H. Future pasteurization. Milk Indus. 29(8): 51-54. Feb. 1949. 44.8 M593

39494 "BUTYRA." SCHWEIZ. ZENTRALSTELLE FÜR BUTTERVERSORGUNG, BERN. Bericht über das XVI. geschäftsjahr 1. mai 1947 bis 30. april 1948. (Excerpts.) Schweiz. Zentbl. f. Milchw. 38: 27-28. Feb. 11, 1949. 44.8 Sch93

39495 CARVEL, T. Frozen custard. Confectionery-Ice Cream World 41(10): 24-25. Mar. 11, 1949. 389.8 C767

39496 CASALIS, J., GLASER, I., and DESRANTE, R. La désacidification électrique en fromagerie. Tech. Lait. 5(47): 11-13. Feb. 11, 1949. 44.8 Of2

39497 CASTLE, M. E., and GLÜCKSMANN, E. J. Pasteurized and sterilized milk. Dairy Indus. 14: 162-165. Feb. 1949. 44.8 D1427

39498 DEVOR, J. R. Crème glacée à revêtement chocolaté. Québec Lait. 8(2): 17-20. Feb. 1949. 44.8 Q3

39499 DILANIÁN, Z., and GABRIELIÁN, T. Standardization of the processes of cheese manufacture and the nature of rennet coagulants. (In Russian.) Moloch. Promysh. 9(8): 6-9. Aug. 1948. 44.8 M734

39500 DRENCKHAN, E. Montage und betrieb von alfa-butteranlagen. Süddeut. Mol.-Ztg. 258-261. Aug. 26, 1948. 44.8 Su2

39501 EIGNER, M. Über einige technische neuerungen und erfindungen auf dem gebiete der milchwirtschaft. Österr. Milch- u. Fettwirtschaft 4: 7-8. Jan. 1949. 44.8 Os72

39502 ENGESAETER, E. Molding whey cheese mechanically. (In Norwegian.) Meieriposten 38: 77-82. Feb. 5, 1949. 44.8 M47

39503 ERB, J. H. Trends in ice cream composition. Confectionery-Ice Cream World 41(8): 18. Feb. 25, 1949. 389.8 C767

39504 GIBSHMAN, M. Composite ferments in cheese manufacture. (In Russian.) Moloch. Promysh. 9(8): 9-10. Aug. 1948. 44.8 M734

39505 GONCHAROV, N. Refrigeration equipment for butter and cheese factories. (In Russian.) Moloch. Promysh. 9(8): 19-25. Aug. 1948. 44.8 M734

39506 GOODWILLIE, D. B. La situation des laits concentrés au Canada. Québec Lait. 8(1): 14, 16. Jan. 1949. 44.8 Q3

39507 GOROSHKOV, T. Production of condensed cream from mixed butter. (In Russian.) Moloch. Promysh. 9(8): 43. Aug. 1948. 44.8 M734

39508 GUTHRIE, E. S. Making butter on the farm. N. Y. Agr. Col. Cornell Ext. B. 751, 16 p. Oct. 1948. 275.29 N48E

39509 HENDERSON, H. B. The value of research to the southern dairy industry. (Excerpts.) South Dairy Prod. J. 45(3): 58-60. Mar. 1949. 44.8 So83

39510 HENNERICH, G. W. Southern ice cream manufacturers will be interested in this sanitation clinic report. South. Dairy Prod. J. 44(5): 84-85. Nov. 1948. 44.8 So83

39511 HIRSCH, A. The bacteriological aspects of pasteurization. Dairy Indus. 14: 165-167. Feb. 1949. 44.8 D1427

39512 HOECKER, W. H. Quality in Cheddar cheese. Pacific Dairy Rev. 53(2): 14. Feb. 1949. 286.85 P11  
Manufacture.

39513 HUTCHINSON, W., and CHETHAM, A. W. G. Bacteriology in the ice cream factory. Dairyman 66: 135, 137, 139, 141. Mar. 1949. 44.8 D1426

39514 INVERNIZZI, R. Aging, technology, and typing in cheeses. (In Italian.) Mondo del Latte 1948(11): 3-8, 11-13, 31. Nov. 1948. 44.8 M74  
Summary in French and English.

39515 JACOBSEN, D. H. The significance and control of coliform in milk processing. Milk Messenger 26(1): 5-7. Jan. 1949. 44.8 M5925



- 39516 KAMBUROV, N. Spray driers operated by electric motor. (In Russian.) *Moloch. Promysh.* 9(8): 28-31. Aug. 1948. 44.8 M734  
In dried milk manufacture.
- 39517 KERR, C. A. A buttermaker's responsibility. *Canad. Dairy & Ice Cream J.* 28(2): 84, 86. Feb. 1949. 44.8 C162
- 39518 KLINGER, M. Butter from goat's milk. *Calif. Farmer, South. Ed.* 190: 205. Feb. 26, 1949. 6 C126A
- 39519 KOESTLER, G. Milchwirtschaftliches forschungs-, versuchs- und kontrollwesen. In *Schweizerische Milchkommision, Die schweizerische Milchwirtschaft*, p. 771-798. Thun, 1948. 44 Sw62
- 39520 KOESTLER, G. Weitere untersuchungen über unterfette rundkäse. *Schweiz. Milchztg.* 75: 10. Jan. 11, 1949. 44.8 Sch92
- 39521 KOLAR, R. New cleaning materials. *Guernsey Breeders' J.* 74: 1029, 1072, 1074. Nov. 15, 1948. 43.8 G93  
For dairy sanitation.
- 39522 KOROLEV, A. Independence of Russian cheese manufacture technology. (In Russian.) *Moloch. Promysh.* 9(8): 4-5. Aug. 1948. 44.8 M734
- 39523 KUNDRAT, W. Neue züchtungsverfahren für *Penicillium camemberti*. *Milchwissenschaft* 4(1): 23-24. Jan. 1949. 44.8 M5933  
Summary in English.
- 39524 LEBEDEVA, K. Dried whey and the role of condensing in its production. (In Russian.) *Moloch. Promysh.* 9(8): 16-18. Aug. 1948. 44.8 M734
- 39525 MAASS, H. Labaustauschstoffe. *Süddeut. Molk.-Ztg.* 69: 261. Aug. 26, 1948. 44.8 Su2
- 39526 MERKT, O. Das ende des Bayerischen Schutzmarkenverbandes für Butter und Käse. *Süddeut. Molk.-Ztg.* 69: 204-205. Aug. 12, 1948. 44.8 Su2
- 39527 MINSTER, C. H. Practical ammonia refrigeration for ice cream plants. II. *Ice Cream Rev.* 32(7): 37, 94, 96, 98, 100, 102. Feb. 1949. 389.8 Ic22
- 39528 MINTHORN, C. M. Production and pasteurization of ice cream mix by H.T.S.T. method. *Canad. Dairy & Ice Cream J.* 28(2): 76, 78, 90. Feb. 1949. 44.8 C162  
Also in *South. Dairy Prod. J.* 45(3): 25, 62-64. Mar. 1949. 44.8 So83
- 39529 MINUT, J. Un queso fresco de inmediato consumo; contingencias práctico-tecnológicas. *Indus. Lechera* 30: 777-778, 781-782. (Cont.) Dec. 1948. 44.8 In26
- 39530 MOHR, W., and BAUR, K. Eingedickte magermilch als kaffeesahne-ersatz (kaffeeweissmittel). *Süddeut. Molk.-Ztg.* 69: 241-243. Aug. 26, 1948. 44.8 Su2
- 39531 MUSSETT, A. T., and MARTIN, W. H. The manufacture, use and storage of dehydrated sweetened condensed milk. *Canad. Dairy & Ice Cream J.* 28(2): 68, 70, 72, 74. Feb. 1949. 44.8 C162
- 39532 MYRAKER, L. E. Vacuum evaporation in mixed goat whey cheese production. (In Norwegian.) *Meieriposten* 38: 41-43. Jan. 22, 1949. 44.8 M47
- 39533 NYSTROM, A. B. Some new developments in the dairy industry. *Wash. State Col. Inst. Dairying Proc.* 17: 44-52. 1948. 44.9 W27  
Research.
- 39534 OFFICE TECHNIQUE DE L'INDUSTRIE LAITIÈRE. Le froid dans l'industrie laitière. *Tech. Lait.* 4(44): 11-14; (47): 26-28. (Cont.) Nov. 8, 1948, Feb. 11, 1949. 44.8 Of2
- 39535 OLSON, N. T. Electric pasteurization of milk. *Wash. State Col. Inst. Dairying Proc.* 17: 40-43. 1948. 44.9 W27
- 39536 OTTING, H. E. Ion exchange applications in milk products. *Indus. & Engin. Chem.* 41: 457-459. Mar. 1949. 381 J825
- 39537 PARISI, P. Loss of Parmesan cheese during ripening. (In Italian.) *Mondo del Latte* 1948(11): 17, 19-22. Nov. 1948. 44.8 M74  
French and English summaries.
- 39538 PROUTY, C. C. The problem of bacteriophage in relation to cheese starters. *Wash. State Col. Inst. Dairying Proc.* 17: 103-105. 1948. 44.9 W27
- 39539 QUADRI, P. Consideration on the use and abuse of starters. (In Italian.) *Mondo del Latte* 1949(1): 11-14. Jan. 1949. 44.8 M74  
Summary in French and English.
- 39540 RENCO, P. On the use of bacterial starters in cheese manufacture. (In Italian.) *Latte* 22(12): 5-6. Dec. 1948. 44.8 L35  
Also in *Mondo del Latte* 1949(1): 25. Jan. 1949. 44.8 M74
- 39541 RESUGGAN, J. C. L. Detergency. 3. *Milk Indus.* 29(8): 39-43. Feb. 1949. 44.8 M593
- 39542 ROBERTS, W. M. Good housekeeping; an essential of modern dairy plant operation. *Milk Plant Monthly* 37(10): 102-104. Oct. 1948. 44.8 C864
- 39543 ROBINSON, C. The wealth of a Valley. *Utah Farmer* 68(13): 5, 14, 16. Feb. 26, 1949. 6 D45  
Swiss cheese production at the Cache Valley Dairy Association cheese plant.
- 39544 ROSSI, V. Supervision of butter production. (In Italian.) *Olivicoltura* 3(11): 8-9. Nov. 1948. 80 OL42
- 39545 SAMPEY, J. J. Processing, storage and use of milk products in ice cream. *Confectionery-Ice Cream World* 41(7): 13, 16. Feb. 18, 1949. 389.8 C767
- 39546 SANDERS, G. P., and SAGER, O. S. Preservation of dairy products for the phosphatase test. *J. Dairy Sci.* 32: 166-174. Ref. Feb. 1949. 44.8 J822
- 39547 SCHULZ, W. Spelseeis; ein übersicht über den heutigen stand der technik bei fabrikmässiger herstellung. *Milchwissenschaft* 4: 33-39. Ref. Feb. 1949. 44.8 M5933  
Summary in English.
- 39548 SHEURING, J., and PYENSON, H. The effect of some emulsifying agents on the physical-chemical properties of ice cream. *South. Dairy Prod. J.* 44(5): 104-105, 107-109, 114. Ref. Nov. 1948. 44.8 So83
- 39549 SHEURING, J. J. Keeping dairy products under refrigeration. *Ice & Refrig.* 116(3): 23-24. Mar. 1949. 295.8 Ic2
- 39550 SKERTCHLY, C. Choosing an ice cream freezer. *Dairyman* 66(2): 69, 71, 73. Feb. 1949. 44.8 D1426
- 39551 SMITH, A. C., and DOAN, F. J. The reparation method for increasing the viscosity of cream. *Milk Plant Monthly* 37(10): 84-88. Ref. Oct. 1948. 44.8 C864
- 39552 SREBNIK, V. Production of curds from buttermilk. (In Russian.) *Moloch. Promysh.* 9(8): 41. Aug. 1948. 44.8 M734
- 39553 STILLMAN, G., and PRICE, W. V. Cottage cheese at home; how to make it, how to use it. *Wis. Agr. Col. Ext. Stencil C.* 280, 6 p. Oct. 1948. 275.29 W75B
- 39554 SUTTON, W. S., and SHELTON, A. B. Bacteriophage and its control by the rotational use of single strain cheese starters. *Australian Milk & Dairy Prod. J.* 15(11): 22-23, 25. Nov. 1948. 44.8 Au72
- 39555 TALCE, D. Impfmenge und qualität des säureweckers. *Süddeut. Molk.-Ztg.* 69: 249-250. Ref. Aug. 26, 1948. 44.8 Su2
- 39556 THOMSEN, L. C. Butter workmanship and composition control. *Wash. State Col. Inst. Dairying Proc.* 17: 21-26. 1948. 44.9 W27
- 39557 TJENTLAND, J. 7 months in Sweden. (In Norwegian.) *Meieriposten* 38: 59-66, 82-87. Jan. 29-Feb. 5, 1949. 44.8 M47  
Creameries in Sweden with special attention to cheese manufacture.
- 39558 TORTORELLI, N. New horizons in the manufacture of sheep's milk cheese. (In Italian.) *Latte* 22(10): 13-14. Oct. 1948. 44.8 L35
- 39559 TRACY, P. H. Homogenized milk problems. *Wash. State Col. Inst. Dairying Proc.* 17: 1-20A. 1948. 44.9 W27
- 39560 TRACY, P. H. Ice cream stabilizers. *Wash. State Col. Inst. Dairying Proc.* 17: 83-86. 1948. 44.9 W27  
Similar title in *Milk Messenger* 26(1): 3-4. Jan. 1949. 44.8 M5925
- 39561 TRACY, P. H. The manufacture of powdered cream. *Wash. State Col. Inst. Dairying Proc.* 17: 30-32. 1948. 44.9 W27
- 39562 U. S. BUR. OF AGRICULTURAL ECONOMICS. 1948 summary of American cheese warehouse statistics. *Chicago, 1949.* 9 p. 1.941 H8C41
- 39563 VOS, E. A. The influence of potassium nitrate on the butyric acid fermentation in cheese. (In Dutch.) *Nederlands Melk-en Zuiveltijdschr.* 2: 223-245. Ref. Oct./Dec. 1948. 44.8 N283  
English summary.



39564 WEINSTEIN, B., LOEWENSTEIN, M., and OLSON, H. C. The use of ascorbic acid in controlling oxidized flavor in milk. *Milk Plant Monthly* 37(10): 116-119. Oct. 1948. 44.8 C864

39565 WILLARD, H. S. Storage of cottage cheese. (Abs.) *Milk Plant Monthly* 38(3): 87, 92. Mar. 1949. 44.8 C864

39566 ZADRA, A. Rational cheese manufacture. (In Italian.) *Latte* 22(10): 7-8; (12): 7-8. Oct., Dec. 1948. 44.8 L35

39567 ZORN. Grundlagen der milcherzeugung im vereinigten wirtschaftsgebiet. Süddeut. Molk.-Ztg. 69: 224-226. Aug. 26, 1948. 44.8 Su2

#### Statistics

39568 COMPLETE analysis by states of 1948 gallonage. *Ice Cream Trade J.* 45(2): 44-45, 68. Feb. 1949. 389.8 Ic2

39569 SCHWEIZERISCHES BAUERNSEKRETARIAT. Milchstatistik der Schweiz, 1947. *Landw. Jahrb. der Schweiz* 62: 661-724. 1948. 17 L23  
Text in German and English.

#### FEED AND FORAGE CROPS

39570 BERGER, W. C. How to turn feed into dollars. *Feedstuffs* 21(9): 22-26. Feb. 26, 1949. 286.81 F322  
Policy.

39571 BROUWER, E. Problems in the production of animal feeds. (In Dutch.) *Voeding* 10: 8-17. Jan. 15, 1949. 389.8 V85

39572 CLARK, M. Alfalfa pellets for the range. *Utah Farmer* 68(12): 16. Feb. 12, 1949. 6 D45  
Production by the Farmers Grain Cooperative.

39573 CLELAND, S. B. It's time to shift to hay, big grain crops warn. *Midland Coop.* 16(23): 3. Jan. 9, 1949. 280.28 M58

39574 GFRERER, H. Warum futtermittelenkung? *Salzburg. Bauer* 4(1): 1-2. Jan. 6, 1949. 19 Sa3

39575 GRUBER, H. Schweinemastaktion und futtermittelbewirtschaftung. *Kärntner Bauer* 99: 51-52. Feb. 15, 1949. 19 K14

39576 HUNTER, W. L. Labeling of feeds. *Flour & Feed* 49(10): 10. Mar. 1949. 298.8 F66

39577 HURST, F. J. Cooperators get high returns from alfalfa. *News Farmer Coop.* 15(11): 5, 19. Feb. 1949. 166.2 N47

Alfalfa Producers Cooperative, Inc., Bella Mina, Ala.

39578 JORDAN, G. L. Seasonal movements of prices of protein supplements and feed ingredients. *Grain & Feed J. Consolidated* 102(4): 20. Feb. 23, 1949. 298.8 G762

39579 KANSAS. STATE BOARD OF AGRICULTURE. Commercial feeding stuffs, 1947/48. Dec. 1948. 39 p. 2 K13Re  
Analysis.

39580 KISTLER, P. T. The new look at the feed tag. *Feedstuffs* 21(11): 25-26, 28-31. Mar. 12, 1949. 286.81 F322

39581 KÖSTLIN, A. Vom futteraufriß, seinem verfahren und seiner bedeutung. *Nachr. f. Beratung u. Ausbildung in der Landw.* 1: 25-27. Nov. 1948. 18 N11  
Germany.

39582 LANG, J. Futterbauförderung und futterbauaktion 1949. *Landwirtschaft* 22(1/2): 10. 1949. 19 L235  
Austria.

39583 MOSKEY, H. E. Food law explained. *Flour & Feed* 49(10): 34. Mar. 1949. 298.8 F66  
The Federal Food, Drug, and Cosmetic Act in relation to feeds.

39584 NORDFELDT, S. Crude fiber—its chemical nature, appearance in plants and methods for its determination. (In Swedish.) *Sweden. Lantbrukshögsk. Husdjursförsöksanst. Särtryck och Förhandsmeddel.* 75: 346-369. Ref. 1948. 49.9 Up6  
English summary.

Cellulose, lignin, etc., in feed.

39585 PERUCHON DE BROCHARD, J. À propos de la fabrication des aliments composés pour le bétail. *Tech. Lait.* 4(46): 10, 25. Jan. 11, 1949. 44.8 Of2

39586 POIROT, P. L. Feeding the shmoo. n. p., 1948. 1 p. 284.3 P75  
Feed price supports and their effect on the meat industry.

39587 RICHARDS, M. Record feed supplies promise cheap proteins. *Corn Belt Livestock Feeder* 1(2): 18-19. Nov. 1948. 280.38 C81

39588 RINEHART, E. F. How to meet the feed situation. *Pacific Stockman* 15(3): 11-12. Mar. 1949. 286.85 W52

39589 ROOME, C. A. Reduced feeding costs. *Farmer & Stock-Breeder* 63: 479. Feb. 22, 1949. 10 F228

Poultry feeding costs.

39590 TAYLOR, C. C. Review of feed operations for 1948. *Eggsaminer* 26(2): 11. Feb. 1949. 286.85 Eg32  
Pacific Cooperative Poultry Producers.

39591 U. S. BUR. OF AGRICULTURAL ECONOMICS. Feed statistics including wheat and rye. Washington, 1948. 44 p. 1.941 S8F322

39592 WALDRON, H. Continuous batch system for feed manufacture. *Amer. Miller & Processor* 77(2): 54, 56. Feb. 1949. 298.8 Am32

#### FIBERS AND TEXTILES

39593 AMERICAN VISCOSE CORPORATION. TEXTILE RESEARCH DEPT. Spinning rayon staple on the cotton system. *Marcus Hook, Pa.*, 1948. 148 p. 304 Am362S

39594 ANDALÒ, G. A Napoleonic decree on cotton culture in Italy. (In Italian.) *Italia Agr.* 86: 69-72. Jan. 1949. 16 It1

39595 ANGELL, G. N. Despite fewer range sheep, Oregon wool growers optimistic. *Oreg. Farmer* 72(3): 73. Feb. 3, 1949. 6 Or32

39596 APPLEBY, D. K. The action of light on textile materials; a review of the literature. *Amer. Dyestuff Rptr.* 38: 149-156. Feb. 21, 1949. 306.8 Am3  
Includes various types of fibers.

39597 BANAL, R. Broom and the domestic broom fiber industry. (In Italian.) *Mezzogiorno Agr.* 4(47): 3. Dec. 5, 1948. 16 M57

39598 BARBAULT, R. Le lin en Doukkala. *B. Econ. et Social du Maroc* 10: 195-211. Jan. 1948. 280.8 So18

39599 BARKER, A. F. The medulla and medullated wools and hairs. *Textile Mfr.* 75(890): 55-59. (To be cont.) Feb. 1949. 304.8 T3126  
Analysis.

39600 BARUAH, P., and BARUAH, H. K. The processing of jute by hiparol and bacterial pectinases. *Fibres* 10: 55-59. Feb. 1949. 304.8 F16

39601 BASU, S. Jute and its trade in Jalpaiguri District. *Jute B.* 11: 289-292. Nov. 1948. 73.38 In2

39602 BEAVER, J. F. The romance of wool. *Textile Inst. J.* 40: P38-P43. Jan. 1949. 73.9 T31  
Wool history.

39603 BERTONE, E. Water in wool. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 62-63. Jan. 1, 1949. 6 R153

39604 BÖHRINGER, H. Mechanisch-technologische prüfverfahren an der faserflocke. II. *Textil-Praxis* 4: 52-55. Feb. 1949. 304.8 T3143

39605 BOMBAY. DEPT. OF AGRICULTURE. Final memorandum on the cotton crop of the Bombay Province (including Kolhapur State) for the season 1947-48. Poona, 1948. 6 p. 72.9 In26

39606 BREMEN. BAUMWOLLBÖRSE. 75 jahre Bremer Baumwollbörse, 1872-1947. Bremen, 1948. 59 p. 287 B75B

39607 BRIGHT, N. F. H., and CARSON, T. Photo-sensitive adsorption of water vapour on wool. II. *Soc. Chem. Indus. J.* 67: 463-464. Dec. 1948. 382 M31

39608 BÜCHERL, S. Angorawolle für die leidenden menschen. *Österr. Kleintierzüchter* 1949: 507. Jan. 1949. 49 Os7

39609 BUTLER, R. I. Cotton ginning in Tanganyika and comments thereon. *East African Agr. J.* 14: 101-104. Oct. 1948. 24 Ea74

39610 CALZONE, F. Contribution to research on a method of determining the fineness of wools. (In Italian.) *Laniera* 62: 579, 581, 583. Oct. 1948. 45.8 B63

39611 CAMARA ALGODONERA DEL PERU. Standards o patrones del algodón peruano, Tangüis y Pima. Lima? 1948? unpagged. 280.372 C14



- 39612 CAMPBELL, I. J. State's cotton production amazes the Nation. Calif. Farmer, South. Ed. 190: 198-199. Feb. 26, 1949. 6 C126A
- 39613 CARRERAS PALET, J. Problemas de la elaboración de las fibras artificiales. Textiles Panamer. 9(3): 51, 63-68. (To be cont.) Mar. 1949. 304.8 T3142
- 39614 CORLEY, J. R. Drafting long, fine-fiber cottons on super-draft roving frames. Textile Indus. 113(3): 110-113, 223. Mar. 1949. 304.8 C823
- 39615 CORTEEN, H. The textile industries of eastern Scotland. Chem. and Indus. 1949: 3-6. Jan. 1, 1949. 382 M31C
- 39616 DART, S. L., and PETERSON, L. E. A strain-gage system for fiber testing. Textile Res. J. 19: 89-93. Feb. 1949. 304.8 T293
- 39617 DE KLERK, J. C. Wool, the wonder fibre. Farming So. Africa 23: 775-782, 798. Dec. 1948. 24 So842
- Uses and physical characters.
- 39618 DE KLERK, J. C. Wool, the wonder fibre; the history of wool and the textile industry. Farming So. Africa 23: 709-716, 735. Nov. 1948. 24 So842
- 39619 DELLEPIANE GALLI, A. D. Método fotográfico de calificación de lanas semilludas. Buenos Aires U., Facul. de Agron. y Vet. Rev. 12: 114-148. Ref. Nov. 1948. 9 B863
- English summary.
- 39620 DILLMAN, A. C. The flax outlook for 1948-49. Kenedy, Tex., 1948. 2 p. 73.1 D58
- 39621 DODI, R. E. R. P.—E. C. A.—O. E. C. E. (In Italian.) Laniera 62: 533, 535, 537, 539, 541. Oct. 1948. 45.8 B63
- Organizzazione Europea di Cooperazione Economica and the Italian wool industry.
- 39622 DONÀ DALLE ROSE, A. Flax is disappearing. (In Italian.) Gior. di Agr. 59: 26. Jan. 23, 1949. 16 It1G
- Italy.
- 39623 ECKARDT, A. Hanf. Kurzbrieft f. Ernährung u. Landw. 11: A II 4, 2 p. (To be cont.) Nov. 1948. 281.8 K96
- Germany.
- 39624 EIRE. DEPT. OF AGRICULTURE. The care and marketing of wool. Eire. Dept. Agr. Leaflet 60, 4 p. Apr. 1948. 10.5 I42
- 39625 ELÖD, E., and ZAHN, H. Beitrag zur kenntnis der superkontraktion; über die einwirkung von phenolen auf wolle, rosshaare, naturseide und polyamidfasern. Melland Textilber. 30(1): 17-23. Jan. 1949. 304.8 T312
- Summary in English and French.
- 39626 ELÖD, E., and ZAHN, H. Zur kenntnis der schädigung der wolle beim aetzen mit rongalit. Textil-Praxis 4(1): 27-30. Jan. 1949. 304.8 T3143
- 39627 FISHER, F. The batching of hard fibres. III. Fibers, Fabrics & Cordage 16: 61-62. Feb. 1949. 304.8 Ir42
- 39628 FISHER, O. C. What does 1949 hold for the wool grower? Sheep and Goat Raiser 29(6): 34-35. Mar. 1949. 45.8 Sh3
- 39629 FITZGERALD, W. F. Objectives of the Wool Bureau, Inc. Natl. Wool Grower 39(3): 29, 48-49. Mar. 1949. 45.8 N21N
- 39630 FLAX DEVELOPMENT COMMITTEE. The Belgian flax industry; Flax Development Committee delegation's visit to Belgium in July 1947. Belfast, 1948. 36 p. 73.1 F613B
- 39631 FLAX DEVELOPMENT COMMITTEE. Flax facts; a comparison between Courtrai and Irish flax. Belfast, 1948. 6 p.-folder. 73.1 F613F
- 39632 FOREMAN, F. L. The wool outlook. Amer. Dyestuff Rptr. 38: 197. Feb. 21, 1949. 306.8 Am3
- 39633 FORMIGONI, L. The use of silk is being resumed. (In Italian.) Campagna 47: 342. Dec. 31, 1948. 16 C152
- 39634 FRANCE. COMITÉ CENTRAL DE LA LAINE. Situation de l'industrie lainière. France. Comité Cent. de la Laine. B. d'Inform. 759, sup., 1 p., folder. Feb. 1949. 286.3459 F84B
- Graphs and statistical tables.
- 39635 GAIR, R. L. A survey of the canvas goods industry in Australia. Jute & Canvas Rev. 20: 13, 20. Jan. 1949. 73.38 J982
- 39636 GATTI, G. Results and aspects of the national wool campaign, 1948. (In Italian.) Laniera 62: 475, 477, 479, 481. Sept. 1948. 45.8 B63
- 39637 GILLIEAUX, P. Il faut frapper plusieurs fois sur le même clou. Com. Coton. Congol. B. 8: 55-58. Dec. 1948. 72.9 C732
- Cotton situation.
- 39638 GREAT BRITAIN. BOARD OF TRADE. Jute. London, 1948. 121 p. (Working Party Rpts.) 73.3 G792
- 39639 GREAT BRITAIN. COTTON BOARD. LABOUR DEPT. Uncorrected preprints of papers prepared for the Cotton Board Conference of directors, managers and trade union officials, Harrogate, 22nd.-24th. October 1948. Manchester, 1948. 195 p. 304.9 G794
- 39640 GUTIÉRREZ, R. Clasificación del algodón. Agr. Mex. 64(8/9): 14-18. Aug./Sept. 1948. 8 Ag8
- 39641 HALL, A. J. Principles of textile bleaching. III. Continuous bleaching processes for cotton fabrics. Fibres 10: 60-61. Feb. 1949. 304.8 F16
- 39642 HARGREAVES, R. A. Processing continuous filament synthetic fibers. Whittin Rev. 16(1): 22-28. Feb. 1949. 304.8 W58
- 39643 HAYES, L. A. Test retting station at Strathkeller. Austral. Flax Prod. Com. Newslet. 66: 8-9. Dec. 1948. 73.19 Au7
- 39644 HENDERSON, A. E., and IVERSEN, C. E. Burrs and vegetable matter in wool. Canterbury Chamber Com. Agr. B. 231, 4 p. Oct. 1948. 23 C162
- 39645 HIGGINS, A., and LA VAULT, R. L. A comprehensive dictionary of textile terms. Fall River, Mass., Dover Press, 1948. 137 p. 304 H53
- 39646 HONEYMAN, W. The flax wet spinning frame as a source of catalytic damage in bleaching. (Sum.) Chem. & Indus. 1949: 91. Feb. 5, 1949. 382 M31C
- 39647 HUNDT, W. Bleichen von zellwollflocke bzw. zellwollgarn. Textil-Praxis 4(1): 26. Jan. 1949. 304.8 T3143
- 39648 INDIAN CENTRAL COTTON COMMITTEE. Annual report of the director, Technological Laboratory, for the year ending 31st May 1948. Bombay, 1948. 69 p. 72.9 In233A
- 39649 INDIAN CENTRAL COTTON COMMITTEE. Report on the staple length of the Indian cotton crop of 1946-47 season. Indian Cent. Cotton Com. Statis. Leaflet 1946/47(1), 9 p. June 1948. 72.9 In233St
- 39650 JONES, J. M. Legislative affairs keynote woolgrowers 1948 activities. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949: 188, 193-194. Jan. 1, 1949. 6 R153
- Activities of the National Wool Growers Association.
- 39651 KIRBY, R. H. Fibres in brushmaking. IV. Vegetable fibres. Fibres 10: 44-45. Feb. 1949. 304.8 F16
- 39652 KIRSCHNER, B. Was muss der baumwollspinner über strecken wissen? II. Textil-Praxis 4: 57-59. Feb. 1949. 304.8 T3143
- 39653 KYLE, A. S. Jute production restrictions reviewed. Cordage, Canvas & Jute World 31(352): 21, 25. Feb. 1949. 73.8 C813
- 39654 LABOSSIER, I. What's new in fabrics. N. J. Agr. Col. Ext. B. 252, 16 p. Aug. 1948. 275.29 N46
- 39655 LEE, A. A. The 1948 crop promises well; conditions have been generally good and quality should be well maintained. Austral. Flax Prod. Com. Newslet. 66: 1-3. Dec. 1948. 73.19 Au7
- 39656 LEGENDRE, R. La campagne cotonnière 1947-1948 en A. E. F. Coton et Fibres Trop. 3: 123-128. Oct./Dec. 1948. 73.8 C82
- 39657 LEJANO, A. The outlook of the Philippine abaca industry. Agr.-Com.-Indus. Life 11(1/2): 11, 21, 28. Jan./Feb. 1949. 25 Ag8
- 39658 LOCK, G. W. Report on the Mauritius fibre industry. Rev. Agr. de l'île Maurice 27: 248-265. (To be cont.) Sept./Oct. 1948. 24 M44
- 39659 LONG, J. K. Where the tonnage goes; the vital economic advantage of tank retting. Austral. Flax Prod. Com. Newslet. 66: 5-7. Dec. 1948. 73.19 Au7
- 39660 MCCORD, F. A., and STEINBACH, R., JR. Cotton in the shoe industry. Memphis, Tenn., Mkt. Res. Dept., Natl. Cotton Council of Amer., 1948. 11 p. 303 M13



39661 MCGARRY, W. L. Classing farmers' clips for auction. West. Austral. Dept. Agr. J. 2 ser. 25: 265-280. Sept. 1948. 23 W52J

39662 MAGRUDER, G. C., JR. Wool scouring at Texas A & M. Sheep & Goat Raiser 29(5): 16. Feb. 1949. 45.8 Sh3

39663 MARSH, J. T. An introduction to textile bleaching. London, Chapman & Hall, 1948. 512 p. 304 M352I

Discusses the various fibers and their scouring and bleaching.

39664 MARTINS, R. C. World position of cotton. (In Portuguese.) Observador Econ. e Financeiro 13(155): 80-84. Dec. 1948. 280.8 Ob72

39665 MAXSON, M. Karakul research brings reward. Fur Farming J. 2(5): 7, 20. Mar./Apr. 1949. 45.8 K142

39666 MEHTA, C., & CO., LTD. Indian cotton review, 21st, 1947/48. 1948. 38 p. 281.3729 M47

39667 MILLER, C. C. Ginning assumes new importance. N. C. Dept. Agr. Agr. Rev. 24(3): 5. Feb. 1, 1949. 2 N81Ag

39668 MILLOWNERS' ASSOCIATION, BOMBAY. Report 1947. 1948. 365 p. 304.9 B63  
Textile industry.

39669 MÜHLETHALER, K. Electron micrographs of plant fibers. Biochim. et Biophysica Acta 3: 15-25. Ref. Feb. 1949. 381 B522  
Summary in French and German.

39670 MUNCH, F. Verarbeitungsforschung durch spinnprouben. I. Melland Textilber. 30(1): 3-5. Jan. 1949. 304.8 T312

Summary in English and French.

39671 OLDHAM MASTER COTTON SPINNERS' ASSOCIATION, LIMITED. Annual report, 1948. Oldham, 1949. 209 p. 72.9 OLI

39672 OLLEA, D. Un programa de vastas proporciones debe proyectarse para el cultivo del algodón en la Argentina. Gac. Algodonera 24(299): 1-2, 4, 6-10, 12. Dec. 31, 1948. 72.8 G11

39673 PAREDES, A. F. Report on ramie. Agr.-Com.-Indus. Life 10(12): 24-25. Dec. 1948. 25 Ag8  
Philippine Republic.

39674 PAULY, S. J. The golden fleece—a strategic wartime commodity essential in peace. Mont. Wool Grower 23(3): 8, 22-25. Mar. 1949. 45.8 M762

39675 PAULY, S. J. The position of the American wool growers in domestic and world economy. Natl. Forum Labor, Agr. & Indus. Ann. Proc. 4: 73-76. 1948. 280.9 N2182

39676 PINTE, and GOUJET. Identification des fibres naturelles ou artificielles par voie de teinture. Inst. Textile de France. B. 8: 41-49. Dec. 1948. 305.8 T3145  
Summary in English.

39677 PRINGLE, A. V. The theory and practice of flax spinning. Fibers, Fabrics & Cordage 16: 58-60. (Cont.) Feb. 1949. 304.8 Ir42

39678 QUIG, J. B. "Orlon" acrylic fiber—a new synthetic. Rayon & Synthetic Textiles 30(3): 67-69. (Cont.) Mar. 1949. 304.8 R21  
Also in Amer. Assoc. Textile Technol. Papers 4: 61-67. Mar. 1949. 304.9 Am33

39679 RICHARDS, R. E. Co-op. completes nineteenth year. Wool Growers News 14(6): 4-6, 8. Jan. 1949. 280.28 W882

Wisconsin Cooperative Wool Growers Association.

39680 RINOLDI, L. Prevention of felting in wool. (In Italian.) Laniera 62: 567-569, 571-575, 577-578. Oct. 1948. 45.8 B63

39681 ROTTERDAM. VEREENIGING VOOR DEN KATOENHANDEL. Annual report 1947-1948. 1948. 22 p. 287 R34R

39682 SCOTT, W. M. New developments in cotton—an old chemurgic crop. U. S. Bur. Agr. and Indus. Chem. AIC-216, 10 p. Dec. 6, 1948. 1.932 A2Ag82

39683 SILLAN, P. Fibers in future fabrics. Rayon & Synthetic Textiles 30(3): 41-42. Mar. 1949. 304.8 R21

39684 SIMMENS, L., and URQUHART, A. R. The structure of textile fibres. I. Why are fibres fibrous? Textile Inst. J. 40: P3-P10. Jan. 1949. 73.9 T31  
Introduction to the series by A. R. Urquhart, p. P1-P2.

39685 SKINNER'S wool trade directory of the world, 1947-8-9. British ed. 1949? 844 p. 225 W892

39686 SLAGSVOLD, P. L. Mohair report. U. S. Prod. & Mktg. Admin. Mktg. Activ. 11(11): 16-19. Nov. 1948. 1.942 A8M34  
Situation of the industry.

39687 SOUTH AFRICAN WOOL DISPOSALS ORGANIZATION. Summary of South African wool clips in qualities, 1946/47-1947/48. 1948. 15 p. 281.3459 D93  
Statistics.

39688 STAHL, W. H., and others. Studies on the microbiological degradation of wool. I. Sulfur metabolism. Arch. Biochem. 20: 422-432. Ref. Feb. 1949. 381 Ar2  
B. McQue, G. R. Mandels, and R. G. H. Siu, joint authors.

39689 STANLEY, F. E., and HODGKINS, A. Cotton marketing practices in Louisiana in 1947. La. Rur. Econ. 11(1): 3, 8. Feb. 1949. 281.8 L93

39690 SZYMANEK, J. Étude histologique de quelques variétés de lin. Inst. Textile de France. B. 8: 9-31. (Cont.) Dec. 1948. 305.8 T3145  
Summary in English.

39691 TINCKER, M. A. H. The structure of cell walls. II. Fibres 10(1): 5-6. Jan. 1949. 304.8 F16

39692 TOWNEND, P. P. Major problems in the processing of wool. 1. Scouring. Wool Rev. 22(334): 21. Feb. 1949. 45.8 W886

39693 TROTTER, I. P. Observations on the cotton situation in Japan in 1948. U. S. Off. Foreign Agr. Relat. FC-2-49, 9 p. Feb. 20, 1949. 1.943 F7626

39694 TROTTER, I. P. Observations on the cotton situation in the Dominions of India and Pakistan in 1948. U. S. Off. Foreign Agr. Relat. FC-3-49, 12 p. Feb. 20, 1949. 1.943 F7626

39695 TRUMP, M. D. Core test has value. West. Livestock Rptr. 9(28): 37, 40. Mar. 2, 1949. 286.85 W523  
For wool.

39696 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR ASIA AND THE FAR EAST. Study on textiles. United Nations Econ. and Social Council. [Documents] E/CN.11/Annex E, 47 p. Nov. 5, 1948. 280.9 Un3653

39697 UNITED PROVINCES. DEPT. OF AGRICULTURE. Revised final forecast of the cotton crop for the year 1947-48. Lucknow, 1948. 2 p. 72.9 In29

39698 U. S. EXTENSION SERV. Textiles and clothing research. A report to the Committee on Research in Home Economics, Division of Home Economics, Land Grant College Association, November 7, 1948. Washington, 1949. 8 p. 1.913 H4T31

39699 WALKER, W. A. M. Growth of the jute industry in India and Pakistan. Cordage, Canvas & Jute World 31(352): 13-15. (To be cont.) Feb. 1949. 73.8 C813

39700 WATKINS, D. W. Should we have cotton marketing quotas? Prog. Farmer, Car.-Va. Ed. 63(11): 18. Nov. 1948. 6 P945

39701 WHITEMAN, J. V. What's happening in the wool business. N. Mex. Stockman 14(3): 90. Mar. 1949. 49 N462

39702 WILDMAN, A. B. Some problems of wool growth. Ann. Appl. Biol. 35: 466-467. Sept. 1948. 442.8 An72

39703 WILLIAMS, A. W. Fabric-destroying fungi. Textile Age 13(2): 24, 26, 28. Feb. 1949. 304.8 T3132

39704 WILSDON, B. H. Chemical research and some problems of wool technology. (Sum.) Chem. and Indus. 1949: 24-25. Jan. 8, 1949. 382 M31C

39705 WYOMING WOOL GROWERS ASSOCIATION. The platform and program... as set forth in the reports of various committees and adopted by forty-fifth annual meeting, Cody, Wyoming, November 9-11, 1948. 6 p.-folder. 45.9 W992P

39706 ZAHN, H. Eine vereinfachte methode zur bestimmung der alkalilöslichkeit der wolle. Textil-Praxis 4: 70-71. Feb. 1949. 304.8 T3143

## FRUITS, VEGETABLES, AND NUTS

39707 AMORES YEPEZ, H. Conservemos la riqueza bananera por la cooperación. Manabí, Ecuador. Consorcio de Cent. Agr. B. 11(56): 5-7. Oct./Dec. 1948. 9.5 M31

The banana industry.



- 39708 AROOSTOOK POTATO GROWERS, INC. Special APG seed bulletin. Presque Isle, Me., 1948. 2 p. 75 Ar62
- 39709 BODE, L. La pomme de terre. Petit Casablancais 30, i. e. 32(1355): 6. Feb. 28, 1948. 280.8 P44
- 39710 CAMPBELL, J. C., and MARTIN, W. H. Potatoes: yesterday and today. Rural New-Yorker 99: 123, 126. Feb. 19, 1949. 6 R88
- 39711 CARNCROSS, J. W. What's happening to can-house tomatoes? N. J. Farm & Gard. 20(3): 18-19, 81. Mar. 1949. 6 G162
- 39712 CHAMINADE, R. Notre statut viticole. Monit. Agr. 2(53): 7. Jan. 16, 1949. 14 M744
- 39713 CHARRIÈRE, J. Production végétale. B. L'arboriculture et la culture maraîchère. In Balmer, J. R. Agriculture et viticulture, p. 39-52. Neuchâtel (Suisse), 1948. 33.21 B21
- Switzerland.
- 39714 COOK, F. T. Potato production in South Africa. Overseas Rpt. Agr. Devlpmt. 23, 5 p. Feb. 1949. 281.9 C16420
- 39715 COPPLE, H. Your Washington State Apple Commission. Wash. State Hort. Assoc. Proc. 44: 209-214. 1948. 81 W273
- 39716 COUCHMAN, R. Statistical study suggests need for constructive prune industry program. Sunsweet Standard 32(9): 4. Feb. 1949. 286.83 Su7
- 39717 EEKELEN, M. VAN. Problems involved in the production of vegetable foods. (In Dutch.) Voeding 9: 262-267. Dec. 15, 1948. 389.8 V85
- English summary.
- 39718 ERGUVEN, R. Récolte 1948. Off. Internatl. du Vin. B. 21(214): 29-30. Dec. 1948. 390.8 B87
- Turkey.
- 39719 FABER. La situation de la viticulture. Off. Internatl. du Vin. B. 21(214): 28-29. Dec. 1948. 390.8 B87
- Luxembourg.
- 39720 FITZGERALD, O. A. Potatoes—pride of the Gem State; research pays off for Idaho growers. West. Farm Life 51(4): 8. Feb. 15, 1949. 6 R153
- 39721 FLORIDA Fruit and Vegetable Association. Mkt. Growers J. 78(3): 10, 31-34. Mar. 1949. 6 M34
- Last in a series of articles.
- 39722 GACHOT, M. H. Fruit juices in the Moslem countries. (In Italian.) Not. Enol. ed Aliment. 5: 189-191. Sept. 1948. 16 N847
- 39723 GEBERT, T. The potato seed situation [Italy]. (In Italian.) Italia Agr. 86: 17-21. Jan. 1949. 16 It1
- 39724 GURSTEIN, B. The problem of the citrus industry and indications for a solution. (In Hebrew.) Hassadeh 29: 73-75. (To be cont.) Dec. 1948. 26 H27
- 39725 GUZZINI, D. Research in chestnuts. (In Italian.) Gior. di Agr. 59: 44. Feb. 6, 1949. 16 It1G
- The industry in Italy.
- 39726 HARRINGTON, L. Great expectations in turnips. Farmer's Mag. 46(2): 9, 39, 41, 47, 51-52. Feb. 1949. 7 C165
- The industry in Canada.
- 39727 HAUCK, J. F. The fruit outlook. N. J. Farm Econ. Situation 1949: 15-16. Jan./Mar. 1949. 275.28 N4622
- 39728 HAUCK, J. F. The vegetable outlook. N. J. Farm Econ. Situation 1949: 17-19. Jan./Mar. 1949. 275.28 N4622
- 39729 HILKENBAUMER, F., and HOFFMANN, E. Über die intensitätsstufen im obstbau. Ceres [Hamburg] 1948(5/6): 1-5. 80 C332
- 39730 JOHNSTON, S. The peach situation in the United States. Wash. State Hort. Assoc. Proc. 44: 171-175. 1948. 81 W273
- 39731 KIRCHER, W. H. Potato growers look ahead. Farmer [St. Paul], Gen. Ed. 67(3): 1, 53, 54. Feb. 1949. 6 F2211
- 39732 KOSINSKY. La situation de la viticulture. Off. Internatl. du Vin. B. 21(214): 25-27. Dec. 1948. 390.8 B87
- Hungary.
- 39733 LEACH, T. Digging for gems in the Caribou. Family Herald & Weekly Star 80(8): 5. Feb. 23, 1949. 7 F21
- Potato industry in British Columbia.
- 39734 LEE, I. M. California's situation on early potatoes. Fruit & Veg. Rev. 9(11): 11, 26. Feb. 1949. 80 C1224
- 39735 LOYD, A. K. Fifty years of trial and error brought solution of B.C.F.G.A.'s [British Columbia Fruit Growers' Association] problem by setting up B.C. Tree Fruits Limited. Country Life [Vernon] 33(2): 4, 8. Feb. 1949. 7 C832
- 39736 LUCE, W. A. Pome clubs serve young fruit growers. Fruit Varieties & Hort. Digest 4: 6. Spring 1949. 80 F9464
- 39737 LUHN, E. Der gemüseanbauvertrag. Gartenbauwirtschaft [Hannover] 2: 13. Jan. 24, 1949. 389.8 G19
- 39738 MÖHRING. Zur frage des stärkeren einbaues des obstbaues in die landwirtschaft. Ceres [Hamburg] 1948(5/6): 6-8. (To be cont.) 80 C332
- 39739 MONTELARO, J. M. Certified Irish potato seed of new Louisiana bred variety will be available for spring planting. La. Stockman Farmer 1949: 6. Jan. 1949. 6 L933
- 39740 MUSSELMAN, H. V. As a processor sees cherries here. Mountaineer Grower 19(175): 39, 41-42. Feb. 1949. 80 M86
- 39741 PALMER, M. B. Jamaican banana output affected by Panama disease and drought. Foreign Trade 5: 334-337. Feb. 12, 1949. 286.8 C162
- 39742 PEETERS, F. The economy of the fruit industry in the Benelux framework. (In Flemish.) Tuinbouwberichten 13: 7-9. Jan. 15, 1949. 80 T817
- 39743 PICKETT, J. Any vegetable can do it; tomato growers are taming the wild. Calif. Farmer, North. Ed. 190: 80. Jan. 29, 1949. 6 C126
- Vegetable grower organizations.
- 39744 RENA. Spring crops. (In Italian.) Agr. Romagn. 1949(3): 2. Feb. 5, 1949. 16 Ag828
- Potatoes.
- 39745 RODRIGUES, R. J. V. Economic aspects of potato culture. (In Portuguese.) Portugal. Junta Nac. das Frutas. B. 8: 419-426. 1948. 286.3939 P83
- Summary in English and French.
- 39746 ROYSTON, R. The national fruit and vegetable situation. Washington, U. S. Ext. Serv., 1949. 6 p. 1.941 A2R81
- 39747 SCHREIBER, W. R. Foreign raisin production in 1948. Calif. Fruit News 119(3165): 4-5, 9-10. Mar. 5, 1949. 80 C12
- 39748 SCHREIBER, W. R. World dried apricot production shows big decline; export business is poor. Sunsweet Standard 32(9): 10, 12. Feb. 1949. 286.83 Su7
- 39749 SHULER, P. E., and TOWNSEND, J. C., JR. The history of Florida citrus. Citrus [Tampa] 11(6): 14-15. Feb. 1949. 80 C498
- 39750 SILVEIRINHA, R. Citrus fruits. (In Portuguese.) Vida Agr. [Lisboa] 11(64): 4-5. Mar./Apr. 1948. 15.5 V66
- The industry in Portugal.
- 39751 SMITH, A. G. Winter vegetables, Southern money crop. South. Agr. 78, i. e., 79(2): 17. Feb. 1949. 6 So83
- 39752 STRASSER, W. H., JR. The tapioca, corn and potato starch situation in review. Paper Trade J. 128 (8): 88. Feb. 24, 1949. 302.8 P196
- 39753 TALLARICO, G. Fruit and fruit juices. (In Italian.) Gior. di Pasticcieri e Confettieri 57: 15-17, 19-20. Jan. 1949. 389.8 G432
- 39754 TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. What's ahead for the Texas vegetable grower in 1949? Tex. Agr. Col. Ext. L-112, 1 p. 1948. 275.29 T313
- 39755 TUFTS, W. P. The California apricot industry. Wash. State Hort. Assoc. Proc. 44: 177-185. 1948. 81 W273
- 39756 TWO DIFFERENT viewpoints on the potato situation. Fruit & Veg. Rev. 9(12): 18-19, 21, 31. Mar. 1949. 80 C1224
- Potato program as stated by USDA; What they say in Kern County [Calif.], by R. F. Kreiser.
- 39757 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Problems of the citrus-fruit industry. Hearings, 80th Cong., 2d sess., Sept. 20, 21, 22, 23, and 24, 1948. Washington, 1948. 519 p.
- 39758 WALLER, A. G. White potatoes. N. J. Farm Econ. Situation 1949: 13-14. Jan./Mar. 1949. 275.28 N4622
- 39759 WENTZ. Der feldgemüsebau 1949. Württemberg. Wchnbl. f. Landw. 116: 95-96. (To be cont.) Feb. 19, 1949. 18 W96
- Germany.



### Analysis and Composition

39760 BALLS, A. K. Enzyme problems in the citrus industry. *Food Technol.* 3: 96-100. Mar. 1949.

389.8 F7398

39761 FABIAN, F. W., and ORLOFF, M. D. The influence of washing cucumbers with germicides upon the microflora of the finished product. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 211. Mar. 1949. 389.8 F94

39762 FABIAN, F. W., and DEMAINE, A. L. What an analysis of pickles and pickle products from all parts of the United States and Canada has revealed. (Abs.) *Fruit Prod. J. & Amer. Food Mfr.* 28: 206-207. Mar. 1949. 389.8 F94

39763 FURLONG, C. R. The effect of dipping in borax solutions on the boron content of oranges. *Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem.* 577: 498-500. Ref. Apr. 1947. 389.9 G792M

39764 HILLS, C. H., and others. Enzyme-demethylated pectinates and their gelation. *Food Technol.* 3: 90-94. Ref. Mar. 1949. 389.8 F7398

H. H. Mottern, G. C. Nutting, and R. Speiser, joint authors.

39765 HIRST, E. L., JONES, J. K. N., and ROUDIER, A. J. Structure of acorn starch. *Chem. Soc. J.* 1948: 1779-1783. Nov. 1948. 382 L84J

39766 INGRAM, M. The viscosity of concentrated orange juice. *Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem.* 579, 23 p. 1948. 389.9 G792M

39767 IZZO, P. T. On the olefinic nature of certain phenolic components of cashew nut shell liquid. *New York, 1948.* 50 p. Ref. 387.1 I29  
Thesis - Columbia U.

39768 JONES, A. H., and CAMPBELL, R. H. A microbiological study of "black beets." *Canad. Food Indus.* 20(3): 26-27, 29. Mar. 1949. 286.83 C166

39769 JOSEPH, G. H., KIESER, A. H., and BRYANT, E. F. High-polymer, ammonia-demethylated pectinates and their gelation. *Food Technol.* 3: 85-90. Ref. Mar. 1949. 389.8 F7398

39770 MCCOLLOCH, R. J., and KERTESZ, Z. L. Recent developments of practical significance in the field of pectic enzymes. *Food Technol.* 3: 94-96. Mar. 1949. 389.8 F7398

39771 OWENS, H. S., MCCREADY, R. M., and MACLAY, W. D. Gelation characteristics of acid-precipitated pectinates. *Food Technol.* 3: 77-82. Ref. Mar. 1949. 389.8 F7398

39772 RAUEN, H. M. Fabrikationskontrolle in der konservindustrie. I. Vitamin C-analyse von tomatenkonzentraten. *Angew. Chem. Ausg. A.* 60: 100-108. Apr. 1948. 384 Z33

39773 REEVE, R. M. Histological observations on the seed coats of succulent peas. *Food Res.* 14: 77-89. Ref. Jan./Feb. 1949. 389.8 F7322

39774 VON LOESECKE, H. W., and NOLTE, A. J. Characteristics and composition of papaya seed oil. *U. S. Bur. Agr. and Indus. Chem. AIC-211*, 4 p. Nov. 1948. 1.932 A2Ag82

39775 WOODMANSEE, C. W., and BAKER, G. L. High-polymer, acid-demethylated pectinates and their gelation. *Food Technol.* 3: 82-85. Mar. 1949. 389.8 F7398

### Consumption and Utilization

39776 DALMASSO, G. Fruit surplus? Direct utilization and derivative products. (In Italian.) *Not. Enol. ed Aliment.* 5: 173-176. Sept. 1948. 16 N847

39777 GAUTIER-WALTER, A. Comment utiliser les excédents de pommes de terre. *Monit. Agr.* 2(59): 3. Feb. 27, 1949. 14 M744

39778 GUYOT, H. Utilisations de l'avocat. *Fruits d'Outre Mer* 4: 65. Feb. 1949. 80 F9492

39779 HEID, J. L., and CURL, A. L. Papaya products. *U. S. Bur. Agr. and Indus. Chem. AIC-214*, 9 p. Ref. Nov. 1948. 1.932 A2Ag82

39780 LEGAULT, R. R., and others. Tartrates from grape wastes. *Indus. & Engin. Chem.* 41: 466-471. Mar. 1949. 466-471. 381 J825

C. C. Nimmo, C. E. Hendel, and G. K. Notter, joint authors.

39781 MICHEL, F., and others. Production du fural à partir des marcs de raisin et des sarments de vigne. *Acad. d'Agr. de France. Compt. Rend.* 34: 996-998. Dec. 8/22, 1948. 14 P215Bc

B. Vincent, P. Charles, and O. Andrée, joint authors.

39782 PULLEY, G. N., MOORE, E. L., and ATKINS, C. D. Grapefruit cannery waste yields crude citrus pectin. *U. S. Bur. Agr. and Indus. Chem. AIC-213*, 9 p. Nov. 1948. 1.932 A2Ag82

39783 YOTHERS, W. W. Domestic use of oranges should be encouraged. *Citrus Indus.* 30(3): 13-14. Mar. 1949. 80 C49

### Distribution, Marketing, and Transportation

39784 BLOXOM, J. M. Marketing problems of an independent shipper. *Wash. State Hort. Assoc. Proc.* 44: 83-85. 1948. 81 W273

Apples.

39785 BRUNK, M. E. An economic study of celery marketing. *Fla. Agr. Expt. Sta. B.* 445, 183 p. July 1948. 100 F66S

39786 BRUNNER, F., JR. What's wrong with our potato marketing? *N. J. Farm & Gard.* 20(3): 22. Mar. 1949. 6 G162

39787 BUCK, H. C. A marketing report. *Wash. State Hort. Assoc. Proc.* 44: 69. 1948. 81 W273

Apples.

39788 BURD, H. A. The problem of securing markets for Northwest products. *Wash. State Hort. Assoc. Proc.* 44: 115-117. 1948. 81 W273

Fruit.

39789 CANFIELD, D. R. Marketing problems as seen by growers. *Wash. State Hort. Assoc. Proc.* 44: 71-73. 1948. 81 W273

Fruit.

39790 CATALINA, L. Nuestras avellanas en el mercado internacional. *Cult. Mod.* 31: 460-461. Dec. 1948. 15 C89

Spain.

39791 CHURCH, D. E. Freight rates for fruits and vegetables. *Agr. Situation* 33(2): 2. Feb. 1949. 1 Ec7Ag

39792 COLQUETTE, R. D. Settling for surplus spuds. *Country Guide* 68(2): 10, 30. Feb. 1949. 7 G76

39793 COREY, T. Tree nuts and ways to sell them. *Prog. Grocer* 28(3): 92-95, 210. Mar. 1949. 286.83 P942

39794 CROW, W. C. Transportation of fruits and vegetables. *Mountaineer Grower* 19(175): 28-29, 31-33. Feb. 1949. 80 M86

39795 DU PLESSIS, C. V. H. Increasing importance of the domestic soft fruit market. (In Afrikaans.) *Landbouweekblad* 30(1537): 28-29. Dec. 29, 1948. 24 L232

Union of South Africa.

39796 DUPOUY, L. Conditionnement et probité commerciale. *Pomme de Terre Franç.* 12(114): 2-3. Feb. 1949. 75.8 P77

39797 GARDNER, V. R. The competition of the Western apple at the retail store level. *Wash. State Hort. Assoc. Proc.* 44: 107-114. 1948. 81 W273

39798 GARMAN, C. G. Is apple advertising the answer. *N. Y. Agr. Col. A. E.* 692, 12 p. Feb. 1949. 281.9 C81

39799 GILS, A. Les cooperatives de vente de fruits. *Fruit Belge* 17: 21-23. Feb. 1949. 80 F9493

39800 HART, E. The new promotion program at work for cherries. *Mountaineer Grower* 19(175): 34-35, 37-39. Feb. 1949. 80 M86

39801 HAUVILLE, A. La vente des plants d'agrumes en Algérie, campagne 1947-48. *Fruits et Primeurs de l'Afrique du Nord*, Ed Maroc. 19: 43-44. Feb. 1949. 80 F9482

Statistics.

39802 HAYES, W. Marketing problems as seen by a fieldman. *Wash. State Hort. Assoc. Proc.* 44: 77. 1948. 81 W273

Fruit.

39803 JEANSON, P. Un demi-siècle de coopération viticole. *Monit. Agr.* 1(50/51): 18. Dec. 25, 1948/Jan. 1, 1949. 14 M744

39804 LAURENS, C. En depot de la mevente des produits agricoles on importe encore des légumes secs et des fromages. *Unité Paysanne* 4(171): 1, 4. Feb. 12, 1949. 14 Un3

France.

39805 LIPPERT, P. Termingemässe pflichtabliefierung von gemüse der ernte 1948. *Versorgung* 3: 44. Oct. 1948. 280.8 V61

Russian zone of Germany.



39806 LUHN, E. Freiwillige schiedsordnung in Schleswig-Holstein. Gartenbauwirtschaft [Hannover] 2: 24. Feb. 7, 1949. 389 G19  
In the marketing of fruit and vegetables in Germany.

39807 MCEACHRAN, D. Marketing problems as seen by a retailer. Wash. State Hort. Assoc. Proc. 44: 88-89. 1948. 81 W273  
Apples.

39808 MAGNUSSON, K. Mismanagement of fruit marketing. (In Swedish.) Sveriges Pomol. För. Frukodlaren 1948: 146-147. 86 Sv2F

39809 MALGORN, P. La distribution des agrumes. Fructidor (n. s.) 15(5): 13. Feb. 15, 1949. 286.83 F9423  
North Africa.

39810 MELVILLE, J. Wartime banana shipping. Unifruitco 1948: 12-15. Nov. 1948. 286.83 Un34  
In English and Spanish.

39811 MILLER, A. J. Pre-packaged spinach sells well. Fruit & Veg. Rev. 9(11): 15, 22. Feb. 1949. 80 C1224

39812 MILLER, C. R. Fashions in apple buying; biggest job ahead is marketing of the fruit. East. Fruit Grower 11(12): 10, 12, 20-21, 24. Feb. 1949. 80 Ea73

39813 MITCHELL, A. A. Field work as related to marketing. Wash. State Hort. Assoc. Proc. 44: 75-76. 1948. 81 W273  
Fruit.

39814 THE 1949 Chain Store Age produce manual; presenting facts for the produce man on the care, handling, display and merchandising of every important variety of fruit and vegetable. Chain Store Age 25(3): 91-126. Mar. 1949. 286.28 C34

39815 NIVEN, L. A., and others. Cash-and-carry fruit business. Prog. Farmer, Miss.-Ark.-La. Ed. 64 (2): 16, 50. Feb. 1949. 6 So81  
W. C. LaRue, J. McKinney, and B. M. Browning, joint authors.

39816 PATIGIAN, K., and BOPP, H. Lessons of '38 raisin program. Calif. Farm Rptr. 10(2): 4-5. Feb. 1949. 281.8 C12  
Marketing.

39817 PORTUGAL. JUNTA NACIONAL DAS FRUTAS. Report of activity of technical services in 1946. Portugal. Junta Nac. das Frutas. B. 8: 159-269. 1948. 286.3939 P83  
Marketing, trade, and research.

39818 REICH, W. A. The wholesale grocer's stake in better retail merchandising of fresh fruits and vegetables. Wholesale Grocer News 23(11): 25-26, 72. Feb. 1949. 286.83 W622

39819 RHODES, C. Fruit marketing problems as seen by retailers. Wash. State Hort. Assoc. Proc. 44: 91-95. 1948. 81 W273

39820 RUSSELL, R. S. Government bulk buying; an economic and critical analysis of government purchasing: fruit. Weekly Mkt. News 27(10): 2. Mar. 10, 1949. 286.81 G762A  
Canada.

39821 SANTA PAULA CITRUS FRUIT ASSOCIATION. Forty-second annual report. 1948. 11 p. 280.2939Sa5

39822 SCHMIDT. Hinweise für die ernte von spätkraut und zwiebel. Gartenbauwirtschaft [Berlin] 1948 (9): 6. 80 G1936

39823 SCHMIDT, L. Absatzsorgen im gemüse- und gartenbau. Landwirtschaft 1948: 361-363. Dec. 20, 1948. 19 L235  
Austria.

39824 SEELEY, P. Marketing problems as seen by a packer and shipper. Wash. State Hort. Assoc. Proc. 44: 79-81. 1948. 81 W273  
Apples.

39825 TEXAS. STATE DEPT. OF AGRICULTURE. Texas citrus brands and trademarks registered under House Bill 623, Citrus Standardization Act, for the season 1949-1950. 1949. 25 p. 225 T315

39826 TYSSER, H. F. British marketing system for perishables. Farmer's Weekly [Bloemfontein] 76: 85. Jan. 12, 1949. 24 F225  
Chiefly fruits.

39827 U. S. PRODUCTION AND MARKETING ADMIN. Carlot unloads of certain fruits and vegetables in 100 cities and imports in 5 cities for Canada, calendar year 1947. Washington, 1948. 105 p. 1.956 F94C19

39828 WELLMAN, H. R. Raisin marketing program for exportable surplus may require government sponsored agency. (Sum.) Calif. Agr. [Calif. Sta.] 3(3): 2. Mar. 1949. 100 C12Cag

#### Grading, Inspection, Standardization, and Quality

39829 ALDERMAN, D. C. Some effects of harvesting methods and container performance on keeping quality of Louisiana peaches. Amer. Soc. Hort. Sci. Proc. 52: 149-156. Nov. 1948. 81 So12

39830 BECKER, F. J. Improve our frozen food packs or we stop growing. Canner 108(11): 24, 26. Mar. 12, 1949. 286.83 C16

39831 DAUENHAUER, F. How to obtain eighty-five per cent good grades in canning peaches. Wash. State Hort. Assoc. Proc. 44: 167-168. 1948. 81 W273

39832 FABIAN, F. W., and FAVILLE, L. W. Isolation and identification of a mold, Oospora lactis, as the causative agent for two cases of cucumber pickle spoilage. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 207. Mar. 1949. 389.8 F94

39833 HAYES, K. M., FELLERS, C. R., and ESSELEN, W. B., JR. The keeping quality of "pre-packaged" fresh cranberries. Amer. Soc. Hort. Sci. Proc. 52: 257-262. Nov. 1948. 81 So12

39834 JOHNSON, L. H. "Utility" brand potatoes banned from entering State. Utah Farmer 68(10): 10, 19. Jan. 8, 1949. 6 D45

39835 LENOX, W. L., and SHERMAN, R. W. Frozen food quality high. Ohio Farm & Home Res. [Ohio Sta.] 33: 193-194. Nov./Dec. 1948. 100 Oh3S

39836 MACGILLIVRAY, J. H. Color specification of the Federal canning tomato grade as related to horticultural color determination. Amer. Soc. Hort. Sci. Proc. 52: 415-429. Ref. Nov. 1948. 81 So12

39837 MERCHANT, C. H. Consumers' acceptance of sized potatoes. Maine. Agr. Expt. Sta. B. 465, 15 p. Dec. 1948. 100 M28S

39838 MILLER, C. A., and KIMBROUGH, W. D. Effect of length of exposure to sun on keeping of sweet potatoes. Amer. Soc. Hort. Sci. Proc. 52: 322-324. Nov. 1948. 81 So12

39839 POWELL, H. R. Fruit and vegetable shipments to Singapore. West. Austral. Dept. Agr. J. 2 ser. 25: 236-244. Sept. 1948. 23 W52J  
Chiefly apple quality.

39840 ROHWER, S. A. Use and misuse of insecticides on canning crops. Canning Trade 71(34): 9-10, 26. Mar. 14, 1949. 286.83 T67  
Fruit and vegetables.

39841 SCOTT, N. Left-handed ailment puzzle is finally solved. Better Fruit 43(9): 9, 38. Mar. 1949. 80 B46

Dermatitis due to chloro-2 phenyl phenol used to prevent mold on fruit in storage.

39842 SMITH, E., WRIGHT, T. R., and ADAMS, D. Decay resulting from apple handling. Wash. State Hort. Assoc. Proc. 44: 219-222. 1948. 81 W273

39843 TURRELL, F. M., and SLACK, D. L. Specific gravity of citrus fruits. Amer. Soc. Hort. Sci. Proc. 52: 245-250. Ref. Nov. 1948. 81 So12

Use in grading.

#### Packing and Packaging

39844 COOPER, R. A. Cranberries from Cape Cod; coast repack gets good acceptance. Pre-Pack-Age 2(6): 22-23. Feb. 1949. 280.38 P91

39845 COOPER, R. A. Prepackage is important salvage factor. Pre-Pack-Age 2(5): 10-12. Jan. 1949. 280.38 P91  
Vegetables.

39846 HOPKINS, E. F., and LOUCKS, K. W. Relation of packinghouse practices to incidence of fruit decay. Citrus Indus. 29(11): 5-6, 15-16. Nov. 1948. 80 C49

39847 LEBEAU, O. R. Prepackaging fruits and vegetables by cooperatives. Pre-Pack-Age 2(5): 27-30, 32. Jan. 1949. 280.38 P91  
Also in Mod. Farmer 21(12): 3. Jan. 15, 1949. 6 M725

39848 LEBEAU, O. R. Prepackaging must be studied. Mkt. Growers J. 78(2): 10, 44-45. Feb. 1949. 6 M34  
Prepackaging fruits and vegetables.

39849 MACLINN, W. A., and HAUCK, J. F. Prepackaging New Jersey asparagus. Pre-Pack-Age 2(5): 24. Jan. 1949. 280.38 P91



- 39850 MEALS, C. F. Moving walnuts past the cash register; cellophane bag meets modern merchandising "musts." Diamond Walnut News 31(2): 14-15. Mar. 1949. 94.68 D34
- 39851 TESCHE, W. C. Packaging plant's first season a success; 25 million cellophane bags packed. Diamond Walnut News 31(2): 1-3. Mar. 1949. 94.68 D34
- 39852 U. S. PRODUCTION AND MARKETING ADMIN. Shipping containers for fresh fruits and vegetables. Washington? 1949? 16 p. 1.956 F94Sh63
- 39853 WESTBERG, F. H. Box standardization for soft fruits is needed now. Wash. State Hort. Assoc. Proc. 44: 101-102. 1948. 81 W273

#### Prices, Price Control, and Rationing

- 39854 BECKMAN, F. W. Date industry asks price supports; critical season throws growers in the red. Calif. Fruit & Grape Grower 3: 14-15. Jan. 1949. 95.8 G762
- 39855 CAPEL, W. C. Price control for peaches? East. Fruit Grower 11(12): 8-9. (To be cont.) Feb. 1949 80 Ea73
- 39856 CARLSEN, E. W. Quality and the price of apples. Wash. State Hort. Assoc. Proc. 44: 97-100. 1948. 81 W273
- 39857 DIJCK, D. VAN. Index figures in vegetable culture. (In Flemish.) Tuinbouwberichten 13: 2. Jan. 15, 1949. 80 T817
- Prices.
- 39858 ELKINTON, C. M. Apple prices. Wash. State Hort. Assoc. Proc. 44: 103-106. 1948. 81 W273
- 39859 MARKS, C. J. Supports for citrus. Citrus Leaves 29(2): 14. Feb. 1949. 80 C492
- 39860 PIETRI-TONELLI, A. DE, LA VOLPE, G., and ACCORSI, N. Investigation of the prices of the central fruit and vegetable market and the regional ones of Venetia. (In Italian.) Agr. delle Venezie 2: 824-837. Sept./Oct. 1948. 16 Ag826
- 39861 RHODES, N. On the average. For Sale, Want & Exch. B. 11(10): 1. Mar. 1, 1949. 280.38 F74
- Vegetable prices in Florida.
- 39862 RIDER, E. Quality melons bring quality price. South. Planter 109(11): 32-33. Nov. 1948. 6 So89

#### Processing and Storage

- 39863 ABRAHAMSON, J. D. Frozen corn on the cob. Reclam. Era 35: 25-27. Feb. 1949. 156.84 R24
- 39864 ALBAN, E. K., and FORD, H. W. A multiple chamber pressure unit for respiration studies. Amer. Soc. Hort. Sci. Proc. 52: 183-186. Nov. 1948. 81 So12
- 39865 ALLEN, F. W., and CLAYPOOL, L. L. Modified atmospheres in relation to the storage life of Bartlett pears. Amer. Soc. Hort. Sci. Proc. 52: 192-204. Nov. 1948. 81 So12
- 39866 ATKINSON, F. E., and STRACHAN, C. C. Production of juices. Canada Dept. Agr. P. 813, 63 p. Jan. 1949. 7 C16T
- 39867 AUSTRALIA. AUSTRALIAN CANNED FRUITS BD. Twenty-second annual report 1947/48. 1948. 20 p. 286.3939 Au7
- 39868 BALL, O. New technic speeds sterilizing of canned corn. Food Indus. 21: 307-309, 431. Mar. 1949. 389.8 F737
- 39869 BARNETT, H. R. Potato starch production in the United States. Paper Trade J. 128(8): 90, 101. Feb. 24, 1949. 302.8 P196
- 39870 BERGERET, P. W. Estudio sobre los mostos concentrados. Uruguay. U. Facul. de Agron. Rev. 45: 100-153. Ref. May 1948. 102.5 M76R
- 39871 BIALE, J. B. Respiration of citrus fruits in relation to metabolism of fungi. II. Effects of emanations of *Penicillium digitatum*, Sacc. on lemons at different stages of ripeness. Amer. Soc. Hort. Sci. Proc. 52: 187-191. Nov. 1948. 81 So12
- 39872 BOULAIS, J. Nouvelle note sur la fabrication de poudre de banane. Fruits d'Outre Mer 4: 66. Feb. 1949. 80 F9492
- 39873 BRAZELTON, J. S. Now it's pre-peeled potatoes. Kans. Farmer 86(3): 8. Feb. 5, 1949. 6 K13
- 39874 BREVIGLIERI, N. Inquiries and observations on the conservation of apples in Palestine. (In Italian.) Riv. della Ortoflorofruttic. Ital. 32: 159-161. Sept./Oct. 1948. 86 R22

- 39875 BRIWA, K. E. How to can fruits and vegetables at home. Maine. Agr. Col. Ext. B. 379, 32 p. Apr. 1948. 275.29 M281B

- 39876 CARLTON, H. Home-preparation of fruits and vegetables for the freezer-locker. Tenn. Agr. Col. Ext. P. 280, 16 p. June 1948. 275.29 T25

- 39877 COVER, S., and others. Development of safe methods for canning blackeye peas at home. Tex. Agr. Expt. Sta. B. 707, 26 p. Ref. Dec. 1948. 100 T31S
- A. B. Smith, M. P. Shepperd, and E. G. Crawford, joint authors.

- 39878 CROCE, F. M. Desecación y deshidratación de damascos. Chacra 19(220): 34-35. Feb. 1949. 9 C34

- 39879 CROOK, E. M., and WATSON, D. J. Studies on the storage of potatoes. I. J. Agr. Sci. [London] 38: 440-457. Ref. Oct. 1948. 10 J822

- 39880 CUCALÓN TEJEIRO, E. Aceitunas para mesa en verde y rellenas. Cult. Mod. 31: 414-415. Nov. 1948. 15 C89

- 39881 CURL, A. L. Ascorbic acid losses and darkening on storage at 49°C. (120°F.) of synthetic mixtures analogous to orange juice. Food Res. 14: 9-14. Jan./Feb. 1949. 389.8 F7322

- 39882 DEMARIA MASSEY, D. Las verduras, tan caras en la actualidad, pueden ser conservadas al natural. Uruguay. Min. de Ganad. y Agr. B. Inform. 253: 11. Jan. 13, 1949. 9.9 G15B

- 39883 DEWEY, D. H., and BARGER, W. R. The occurrence of bacterial soft rot on potatoes resulting from washing in deep vats. Amer. Soc. Hort. Sci. Proc. 52: 325-330. Nov. 1948. 81 So12

- 39884 DILLMAN, R. Factors that contribute to the quality of pickles. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 207. Mar. 1949. 389.8 F94

- Also in Canner 108(11): 34. Mar. 12, 1949. 286.83 C16
- 39885 DOWNEY, A. H. Why essential oils should be used for flavoring pickles. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 206. Mar. 1949. 389.8 F94

- 39886 ECCARDI, G. The use of presses and filters in the processing of citrus. (In Italian.) Not. Enol. ed Aliment. 5: 178-180. Sept. 1948. 16 N847

- 39887 ETCHEPARE, A. L'évolution de la culture; l'hygiène et la présentation des fruits et légumes. Fructidor (n. s.) 14(32): 1-2. (Cont.) Nov. 15, 1948. 286.83 F9423

- 39888 FABIAN, F. W., and ORLOFF, M. D. The influence of washing cucumbers with germicides. (Abs.) Canner 108(11): 34. Mar. 12, 1949. 286.83 C16

- 39889 FABIAN, F. W., and KRUM, J. The role of alum in pickles. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 205-206. Mar. 1949. 389.8 F94

- 39890 FAVRE, M. Le froid en horticulture. Vaucluse Agr. 5: 2. (Cont.) Jan. 1, 1949. 14 V26

- 39891 FAVRE, M. La réfrigération des fruits et légumes, particularités relatives à l'entreposage des divers fruits d'après A. Monvoisin. Vaucluse Agr. 5(85): 2. (To be cont.) Feb. 15, 1949. 14 V26

- 39892 FELTON, G. E. Use of ion exchangers in by-product recovery from pineapple waste. Food Technol. 3: 40-42. Feb. 1949. 389.8 F7398

- 39893 FIDLER, J. C. The conserving influence of oxygen on respirable substrate. Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem. 576: 423-426. 1948? 389.9 G792M

- Experiments on apples and oranges.

- 39894 FILENI, E. Advantages of freezing horticultural products. (In Italian.) Mezzogiorno Agr. 5(1): 1. Jan. 2, 1949. 16 M57

- 39895 GERHARDT, F., and SMITH, E. The storage and ripening response of western-grown fruits to post-harvest treatment with growth-regulating substances. Amer. Soc. Hort. Sci. Proc. 52: 159-163. Nov. 1948. 81 So12

- 39896 GIESECKE, F. Impfung als grundlage eines neuartigen gemüse-konservierungsverfahrens. Ceres [Hamburg] 1948(10): 15-16. Oct. 1948. 80 C332

- 39897 GINGLES, R. Modern onion storage. Mkt. Growers J. 78(3): 5, 37. Mar. 1949. 6 M34

- 39898 GRAVES, H. Harvesting and handling peaches for canning. Wash. State Hort. Assoc. Proc. 44: 169-170. 1948. 81 W273

- 39899 HEID, J. L. Concentrating citrus juices by the vacuum method. U. S. Bur. Agr. and Indus. Chem. AIC-212, 15 p. Nov. 1948. 1.932 A2Ag82



- 39900 HEINRICH, E. Das obst hält heuer nicht. Salzburg. Bauer 3(51): 3. Dec. 16, 1948. 19 Sa3 Apples.
- 39901 HEUBERGER, J. W. Liquid lime sulfur as a post-harvest dip treatment of peaches to control brown rot disease in the package. Peninsula Hort. Soc. Trans. 62: 56-58. 1948. 81 P37
- 39902 HITZ, C. W., SIMONS, R. K., and SCHELL, C. E. Experiments with the handling and packaging of peaches to decrease brown rot. Peninsula Hort. Soc. Trans. 62: 38-43. 1948. 81 P37
- 39903 HOHL, L. A., BUCK, P., and ROSOFF, H. Further studies on frozen fruit and vegetable purees. Food Technol. 3: 100-110. Ref. Mar. 1949. 389.8 F7398
- 39904 HOLMES, A. D. Storage losses of butternut squashes. Food Res. 13: 497-502. Ref. Nov./Dec. 1948. 389.8 F7322
- 39905 HOYLE, B. J. Onion curing—a comparison of storage losses from artificial, field, and non-cured onions. Amer. Soc. Hort. Sci. Proc. 52: 407-414. Nov. 1948. 81 Sol2
- 39906 INGRAM, M. Behavior of sulphur dioxide in concentrated orange juice. Food Res. 14: 54-71. Jan./Feb. 1949. 389.8 F7322
- 39907 ISBELL, C. L. Effect of sprout preventive treatments on fall-harvested kohlrabi, potatoes, sweet-potatoes, and turnips while in storage. Amer. Soc. Hort. Sci. Proc. 52: 368-374. Nov. 1948. 81 Sol2
- 39908 JOHNSON, L. H. Storage makes you money. Utah Farmer 68(12): 34, 35. Feb. 12, 1949. 6 D45 Fruit storage situation in Utah.
- 39909 KYZLINK, V. Two Year Plan and the new trends in the technology of fruits and vegetables. (In Czech.) Českoslov. Akad. Zeměděl. Vest. 22: 520-526. Dec. 15, 1948. 19.5 C332
- 39910 MARSHALL, R. E., and others. The effect of holding treatments prior to canning on the vitamin content and palatability of certain vegetables. Amer. Soc. Hort. Sci. Proc. 52: 391-392. Nov. 1948. 81 Sol2 P. Paul, M. Ohlsen, and W. F. Robertson, joint authors.
- 39911 MARTIN, M. The 4-H girl learns to can; canning tomatoes and fruit in boiling water bath. Clemson Agr. Col. S. C. Ext. C. 56, 4 p. May 1948. 275.29 C59C
- 39912 MARTIN, M. Non-acid vegetables [canned] in the pressure cooker. Clemson Agr. Col. S. C. Ext. C. 54, 4 p. 1948. 275.29 C59C
- 39913 LA MATURATION artificielle des bananes. Fruits, d'Outre Mer 4: 51-62. Feb. 1949. 80 F9492
- 39914 MILLER, R. C., and DEVLIN, K. A. Processing filbert nuts. Oreg. Agr. Expt. Sta. Tech. B. 15, 16 p. Nov. 1948. 100 Or3S
- 39915 MONTHULE, P. Cidrie: le bondage des futs. Monit. Agr. 2(56): 6. Feb. 6, 1949. 14 M744
- 39916 MOORE, W. J. Proper night care of produce cuts losses. Independ. Grocergram 23(1): 14-17. Jan. 1949. 286.28 In2
- 39917 NEUBERT, A. M., SCHULTZ, J. H., and CARTER, G. H. Canning studies with Washington-grown apricots. Wash. State Hort. Assoc. Proc. 44: 187-195. 1948. 81 W273
- 39918 NEUBERT, A. M. New froth-flotation process efficiently cleans vined peas. U. S. Agr. Res. Admin. Res. Achvt. Sheet 116, 2 p. Jan. 1949. 1.98 R31
- 39919 PANASUK, M. I. Simple method of preserving fruit, berries and vegetables. (In Russian.) Sad i Ogorod 1948(7): 61-63. July 1948. 87 Sal
- 39920 PAUL, P. Preparation of fruit purées. Fruit Prod. J. & Amer. Food Mfr. 28: 196-197, 221. Ref. Mar. 1949. 389.8 F94
- 39921 PEDERSON, C. S. Ideal conditions for kraut fermentation. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 212. Mar. 1949. 389.8 F94
- 39922 PEDERSON, C. S. Sauerkraut in the American dietary. (Abs.) Canner 108(11): 36. Mar. 12, 1949. 286.83 C16
- 39923 PEDERSON, C. S. The science of vegetable fermentations. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 209-210. Mar. 1949. 389.8 F94
- 39924 ROOKER, W. A. Apple processing: past—and future? Mountaineer Grower 19(175): 21-22. Feb. 1949. 80 M86
- 39925 ROSELLA, E. La conservation des pommes de terre à l'aide des phyto-hormones antigermes. Agriculture [Paris] 12: 379-381. Dec. 1948. 14 Ag823
- 39926 RYGG, G. L. Relative humidity for storing dates at different temperatures. Amer. Soc. Hort. Sci. Proc. 52: 173-175. Nov. 1948. 81 Sol2
- 39927 SCOTT, L. E., and HAWES, J. E. Storage of vine-ripened tomatoes. Amer. Soc. Hort. Sci. Proc. 52: 393-398. Ref. Nov. 1948. 81 Sol2
- 39928 SEATON, H. L. Grower-processor relations. Canad. Grower 71(12): 10-12. Dec. 13, 1948. 80 C16 Fruit and vegetables.
- 39929 SILVEIRA, A. H. DA. Dried peaches and marmalade. (In Portuguese.) Chacaras e Quintais 78: 708. Dec. 15, 1948. 9.2 C34
- 39930 SILVEIRA, A. H. DA. Industrialization of cassava on the farm. (In Portuguese.) Lav. Arroz. 2(23): 17. Nov. 1948. 59.8 L39
- 39931 SMOCK, R. M. Prolonging fruit life; purified air slows ripening gases. Calif. Fruit & Grape Grower 3: 9-10. Jan. 1949. 95.8 G762
- 39932 SOUTHWICK, F. W., and SMOCK, R. M. Further studies on air purification in the apple storage. Amer. Soc. Hort. Sci. Proc. 52: 219-225. Nov. 1948. 81 Sol2
- 39933 STEVENS, A. E. Cinderella of the frozen foods. Canner 108(11): 13, 30. Mar. 12, 1949. 286.83 C16 Frozen orange juice.
- 39934 STEVENS, A. E. Orange juice concentrates' important contribution to post-war recovery of frozen foods. Amer. Grocer 161(10): 2-3. Mar. 9, 1949. 286.83 Am32
- 39935 STEWART, W. S. Effects of 2,4-D and 2,4,5-T on citrus fruit storage. Citrus Leaves 28(11): 6-7, 24-27. Ref. Nov. 1948. 80 C492
- 39936 TINDALE, G. B. Overseas export of apples; suggested improvements. Victoria. Dept. Agr. J. 46: 541-545. Dec. 1948. 23 V66J Practices to preserve quality.
- 39937 VAN DOREN, A. Air purification in the apple and pear storage. Wash. State Hort. Assoc. Proc. 44: 201-202. 1948. 81 W273
- 39938 VAN DOREN, A. An air purification trial in a Wenatchee apple storage. Amer. Soc. Hort. Sci. Proc. 52: 205-212. Nov. 1948. 81 Sol2
- 39939 VASIL'EVSKII, A. Processing of vegetables into meal. (In Russian.) Sad i Ogorod 1948(8): 77. Aug. 1948. 87 Sal
- 39940 VON HAGEN, V. W. The bitter cassava eaters. Nat. Hist. 58: 120-124. Mar. 1949. 500 N483J Processing for food by the Macaguaje tribe of Indians.
- 39941 WALKOF, C. Canning vegetables in the Pembina Triangle [Manitoba]. Country Guide 68(2): 8, 42-43. Feb. 1949. 7 G76
- 39942 WHITNALL, R. Cherries change personalities. Better Fruit 43(9): 11-12, 31. Mar. 1949. 80 B46
- 39943 WOJDA, W. The best method for washing cucumbers. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 211. Mar. 1949. 389.8 F94
- 39944 WOLFF, O. Zum thema: die fabrikation der kartoffelstärke; die arbeit mit schwefliger säure. Deut. Bauerntech. 2(10/11): 36-39. Oct./Nov. 1948. 58.8 D48
- 39945 ZIMOS. Recent directions in the fruit juice, must and wine industries. (In Italian.) Not. Enol. ed Aliment. 5: 181-182. Sept. 1948. 16 N847

## Statistics

- 39946 BOND, M. C., RINKCAS, T., and MITCHELL, P. Vegetables, acreage, yield, production, price, New York and competing areas, 1948. N. Y. Agr. Col. A. E. 693, 72 p. Feb. 1949. 281.9 C81
- 39947 CALIFORNIA. AGRICULTURAL EXPERIMENT STATION. Statistical supplement to Agricultural Experiment Station Circular 378: Commercial head lettuce economic status, 1947, by S. Hoos, and H. F. Phelps. Berkeley, 1948. 24 p. 100 C12S
- 39948 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERVICE. Appraising damages in fruit tree destruction, by A. Shultis and B. B. Burlingame. Berkeley, 1948. 9 p. 275.2 C12Ap



39949 JACOBSEN, A. P. The big potato crop. (In Danish.) *Andelsbladet* 50: 123-124. Feb. 3, 1949. 280.28 An2

Denmark.

39950 SHULER, P. E., and TOWNSEND, J. C., JR. Florida citrus fruit: acreage, production, utilization, prices and tree numbers. *Fla. Citrus Fruit* 1(1), 36 p. Dec. 1948. 93.33 F664

39951 U. S. BUR. OF AGRICULTURAL ECONOMICS. Acreage and production dry beans and dry peas, by years 1929-48 and by class 1948. Boise, 1948. 2 p. 1.941 H8B372

39952 U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual berry summary. Portland, Oreg., 1949. 2 p. 1.941 H8B45

39953 U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho merchantable potato stocks estimated 21,300,000 bushels. Boise, 1949. 2 p. 1.941 H8P842

39954 U. S. BUR. OF AGRICULTURAL ECONOMICS. Potato stocks and disposition report, January 1, 1949. Fargo, N. Dak., 1949. 2 p. 1.941 H8P84

39955 U. S. BUR. OF AGRICULTURAL ECONOMICS. Special freeze damage report, California fruits and vegetables. Washington, 1949. 2 p. 1.941 S2F946

39956 WALTER. Marktleistung: 1 million t gemüse. Gartenbauwirtschaft [Hannover] 1: 59. Aug. 21, 1948. 389.8 G19

#### GRAIN AND GRAIN PRODUCTS

39957 ALBERTINI, F. Italian rice culture 1938-1947. (In Italian.) *Risicoltura* 36: 245-248. Nov. 1948. 59.8 G43

39958 ALTHOUSE, S. L. Grain men talk price support plans. *Hatchery & Feed* 22(11): 20. Nov. 1948. 47.8 H28

39959 ANDERSON, E. Millet—providing food for millions. *Northwest. Miller* 237(9): 26-27, 30-31. Mar. 1, 1949. 298.8 N81

39960 ARAGÃO, B. DE. Wheat policy [Brazil]. (In Portuguese.) *Observador Econ. e Financeiro* 13(156): 34-44. Jan. 1949. 280.8 Ob72

39961 ASANA, R. D., and MANI, V. S. On some physiological properties of extracts of wheat grains. *Cur. Sci.* 17: 360-362. Dec. 1948. 475 Sci23

39962 BENNINK, H. A. Are you ready for more corn? (In Dutch.) *Boer en Tuinder* 3(113): 5. Mar. 5, 1949. 12 B632

Netherlands.

39963 BERGER, W. C. The era of organized effort. *Westerns* 10(6): 24-26. Feb. 1949. 389.78 W522

Western Grain and Feed Dealers Association.

39964 BIANCHINI, E. La Cámara Arbitral de Cereales [de la Bolsa de Comercio del Rosario], en su cincuentenario. *Bolsa de Com., Rosario. Rev.* 37 (888/889): 7. Jan. 31, 1949. 287 R71

39965 BLACK, R. H. Cause and prevention of "sick wheat." *Northwest. Miller. Milling Prod. Sect.* 237(10): 7a-8a, 10a. Mar. 8, 1949. 298.8 N81

39966 BLACKMORE, W. E. Bread and flour: farm share of consumer's dollar falls rapidly in 1948. *Agr. Situation* 33(2): 6-7. Feb. 1949. 1 Ec7Ag

Wheat, bread, and flour prices.

39967 BÖH, J. Organische mehlprieze ab 1. januar 1949? *Mühlen-Ztg.* 2: 236. Dec. 18, 1948. 298.8 M893

39968 BOMBAY. DEPT. OF AGRICULTURE. Final forecast on the rabi jowar crop (for grain) of the Bombay Province for the season 1947-48. Poona, 1948. 4 p. 59.9 In25J

39969 BOMBAY. DEPT. OF AGRICULTURE. Final forecast report on the barley crop of the Bombay Province for the season 1947-48. Poona, 1948. 3 p. 59.9 B637

39970 BOMBAY. DEPT. OF AGRICULTURE. Final memorandum on the kharif jowar (for grain) crop of the Bombay Province for the season 1947-48. Poona, 1948. 4 p. 59.9 B637M

39971 BORASIO, L. Malekized rice. (In Italian.) *Risicoltura* 36: 222-223. Ref. Oct. 1948. 59.8 G43

39972 BUFFUM, W. Improved sanitation with rat control. *Assoc. Oper. Millers. B.* 1949: 1731-1732. Feb. 1949. 298.9 As7

39973 BUREAU OF RAILWAY ECONOMICS. Railroad transportation; a statistical record, 1911-1947. Washington, 1948. 38 p. 289.2 B89Rt

Contains statistics for grain and livestock carried.

39974 CANADA. BUREAU OF STATISTICS. Report on the grain trade of Canada, 1946/47. 1948. 137 p. 59.9 C164

39975 CASHMORE, W. H. Conditioning and storage of grain on the farm. *Kent Farmers' J.* 65: 30-31. Feb. 1949. 10 K41

39976 CASS, W. G. The wheat-meal-time-fermentation test. *Amer. Assoc. Cereal Chem. Trans.* 7: 10-11. Jan. 1949. 59.9 Am3T

39977 CHESSELLS, K. Whither seed corn? *Estate Mag.* 49: 53. Feb. 1949. 10 Es8

Quality.

39978 COLLIER, L. E. What's new in milling machinery and equipment. *Assoc. Oper. Millers. B.* 1949: 1728-1730. Feb. 1949. 298.9 As7

39979 COLOMBO, J. M. La Cámara Arbitral de Cereales en sus bodas de oro. *Bolsa de Com., Rosario. Rev.* 37(888/889): 19. Jan. 31, 1949. 287 R71

39980 COSTAZ, M. Prestockage des céréales; conservation hermétique. *Défense Agr. de la Beauce et du Perche* 46: 37. Feb. 10, 1949. 14 D36

39981 COURTOIS, J. Recherches sur la phytase. X. Actions de préparations phosphatases purifiées de son de blé sur divers esters phosphoriques. *Soc. de Chim. Biol. B.* 30: 618-631. Ref. Sept./Oct. 1948. 383 S01

39982 DULUTH BOARD OF TRADE. List of members and firm and corporation members, 1948. 1949? 34 p. 287 D88R

Contains statistics for grain prices, shipments, and receipts.

39983 EFFERSON, J. N. Short-time factors affecting the price of rice. *Rice J.* 52(2): 15-18. Feb. 1949. 59.8 R36

39984 EVANS, SANFORD, STATISTICAL SERVICE. Grain trade year book, 1947-48; full Canadian grain statistics, with summary tables for principal foreign countries and world's production and movement. Toronto, 1948. 114 p. 286.3599 C16

39985 FARMERS GRAIN DEALERS ASSOCIATION OF ILLINOIS. Forty-sixth annual directory. Bloomington, 1949. 138 p. 59.9 IL64

39986 FLOUR milling in Czechoslovakia. *Northwest. Miller. Milling Prod. Sect.* 237(10): 3a-4a. Mar. 8, 1949. 298.8 N81

39987 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Rice bulletin. Food and Agr. Organ. United Nations. *FAO Commod. Ser.* 11, 78 p. Feb. 1949. 389.9 F735Cs

A survey of the world rice industry.

39988 FRENCH, J. S. The story of rice. *Rice News* 16(2): 6, 12. Feb. 1949. 59.8 R362

39989 GERY, R. Le marché international du blé. *Coopération* 19: 11-15. Jan. 1949. 280.28 C7845

39990 GOMES, P. Brazil, wheat nation. (In Portuguese.) *Observador Econ. e Financeiro* 13(156): 50-55. Jan. 1949. 280.8 Ob72

39991 GRAMOLINI, M. Increase of grain production. (In Italian.) *Corriere Agr.* 4(6): 1. Oct. 15, 1948. 16 C813

Italy.

39992 GROSZMANN, A. Popcorn in Brazil. (In Portuguese.) *Chacaras e Quintais* 78: 725. Dec. 15, 1948. 9.2 C34

39993 GUSLER, G. When is the best time to sell grain? *Ohio Farmer* 203(3): 40-41. Feb. 5, 1949. 6 Oh3

39994 HARRIS, R. H. Consumption of wheat flour and bakery products by the American housewife. *N. Dak. Agr. Expt. Sta. Bimo. B.* 11(3): 82-84. Jan./Feb. 1949. 100 N813B

39995 HERNANDEZ XOLOCOTZI, E. Maize granaries in Mexico. *Harvard U., Bot. Mus. Leaflet* 13: 153-192. Jan. 17, 1949. 451 H262

History.

39996 HINTON, J. J. C. The parboiling treatment of rice. *Miller* 80: 127-128, 131. Feb. 7, 1949. 298.8 M61

39997 IZERGİN, D. P., and RUKOSUEV, A. N. Khimifā zerna i tovarovedenie produktov ego pererabotki [Chemistry of grain kernels and the science of cereal products]. Moskva, Gos. Izd-vo Tekhn. i Ekon. Lit-ry po Voprosam Zagotovok, 1948. 231 p. 389 I22

39998 JAMES, N., and SMITH, K. N. Studies on the microflora of flour. *Canad. J. Res. Sect. C, Bot. Sci.* 26: 479-485. Oct. 1948. 470 C16C



39999 JENNINGS, D. C. Milling is a tradition in many families. Northwest. Miller. Milling Prod. Sect. 237(10): 1a, 24a-25a. Mar. 8, 1949. 298.8 N81

40000 KAUERT. Les qualités du malt vues par les malteurs et les brasseurs. Petit J. du Brasseur 57: 71-74. Jan. 28, 1949. 390.8 P44

40001 KIRK, L. E., LING, L., and OXLEY, T. A. Storing and drying grain in Canada, in the United States, in the United Kingdom. Food and Agr. Organ. of the United Nations. FAO Agr. Stud. 6, 41 p. Dec. 1948. 28 F73

40002 LAROCK, M. J., and BRUHN, H. D. Corn storage on Wisconsin farms. Wis. Agr. Col. Ext. Stencil C. 282, 25 p. Oct. 1948. 275.29 W75B

40003 LEEDEN, R. VAN DER. Quellungsvorgänge bei stärke-mehl-eiweißgemischen. Getreide, Mehl u. Brot 3: 17-19. Feb. 1949. 298.8 G33

40004 LIEKWEG, F. W. 60 Jahre Dortmunder Getreide- und Produktenbörse. Ernährungsdienst 3 (69/70): 3. Dec. 23, 1948. 389.8 Er62

40005 LOCKWOOD, J. F. Flour milling. Ed. 2. Liverpool, Northern Publishing Co., 1948. 543 p. 298 L81F

40006 LOOMBE, C. A. World cereals to-day. (Sum.) Chem. & Indus. 1949: 90. Feb. 5, 1949. 382 M31C

40007 MAJERT, E. Die handelsspannen des mehl-großhandels. Ernährungsdienst 4(13): 3-4. Feb. 14, 1949. 389.8 Er63  
Germany.

40008 MARZO, M. DI. Data on the price of grain. (In Italian.) Ital. e i Cereali 3: 244. Aug. 1948. 59.8 It1

40009 MAZERON, H. Average cost of rice transportation. (In Portuguese.) Lav. Arroz. 2(23): 7-8. Nov. 1948. 59.8 L39

40010 MEL'NIKOV, N. I. Wheat protein and bread baking qualities. (In Russian.) Selek. i Semen. 15(6): 44-49. June 1948. 61.9 Se5

40011 MIGNOTTE, F. Installations mobiles pour la manutention des grains. Monit. Agr. 2(59): 9. Feb. 27, 1949. 14 M744

40012 O'BRIEN, E. J. Victorian wheat quality. Australasian Baker 51(622): 16, 19, 21, 23, 25, 27. Dec. 1948. 298.8 Au7

Discussion, p. 29, 31, 33-34.

40013 PAN, H. L. The co-relations between chemical constituents, physical qualities and gelatinization characteristics of several types of rice. (In Chinese.) Fukien Agr. J. 9: 117-136. June 1948. 22.5 F95  
English summary.

40014 PIMENTEL, F. General aspects of wheat culture in Rio Grande do Sul. (In Portuguese.) Rio Grande do Sul. Sec. da Agr. Indús. e Com. Inform. Rural 1(5/6): 9-11. May 1948. 9.2 R4741

40015 PROVAGLIO, G. Is it advantageous to sow wheat or oats? (In Italian.) Agr. Bresciana 2(5): 1. Feb. 2, 1949. 16 Ag89

40016 PROVERA, V. E. El cincuentenario de la primera Cámara Arbitral de Cereales de la República Argentina. Bolsa de Com., Rosario. Rev. 37(888/889): 15, 17. Jan. 31, 1949. 287 R71

40017 RESSOURCES et besoins en céréales panifiables et consommation de pain. France. Inst. Natl. de la Statis. et des Etudes Econ. Etudes et Conjoncture. Union Franç. 3(9/12): 57-60. 1948. 280.8 F84

40018 ROSSELLI, R. J. La Cámara Arbitral de Cereales de Rosario, su creación y sus funciones. Bolsa de Com., Rosario. Rev. 37(888/889): 9-10. Jan. 31, 1949. 287 R71

40019 ROWE, B. M. From Durum in the field to Durum on the table. Farmer [St. Paul], Gen. Ed. 67(3): 12, 45. Feb. 5, 1949. 6 F2211

Manufacture of macaroni.

40020 SCHILLER, G. W. Milling and baking quality of Blue Jacket and super red wheats. Amer. Assoc. Cereal Chem. Trans. 7: 19-23. Jan. 1949. 59.9 Am3T

40021 SCHMITT, L. Die maismüllerei. Kurzbriefe f. Ernährung u. Landw. 11: B III 4, 2 p. (To be cont.) Nov. 1948. 281.8 K96

40022 SCHOLL, J. C., and BURKHEAD, C. E. Interviewing non-respondents to a mail survey: an experiment in connection with April 1948 farm stocks report. Agr. Econ. Res. 1: 16-23. Jan. 1949. 1 Ec7Agr  
Estimating stocks of grains on farms.

40023 SEMMENS, E. S. Hydrolysis of starch grains by polarized infra-red radiation. Nature [London] 163: 371. Mar. 5, 1949. 472 N21

40024 SOMMERS, M. S. Wheat producing areas in Peru. Econ. Geog. 25(1): 13-16. Jan. 1949. 278.8 Ec7

40025 SORIANO, S., and TRUCCO, R. E. Utilización del afrecho enmohecido en la fermentación alcohólica del maíz. Buenos Aires. U., Facul. de Agron. y Vet. Rev. 12: 26-31. Nov. 1948. 9 B863  
English summary.

40026 SOUZA, A. O. DE. The minimum price factor is decisive for wheat culture. (In Portuguese.) Lav. Arroz. 2(23): 3-6. Nov. 1948. 59.8 L39

40027 SOUZA, A. O. DE. Wheat, powerful support for industry in Rio Grande do Sul. (In Portuguese.) Lav. Arroz. 2(22): 3-6. Oct. 1948. 59.8 L39

40028 STANTON, B. Forging water links in grain marketing plan. News Farmer Coop. 15(11): 3, 14. Feb. 1949. 166.2 N47

River elevator of the Prairie Grain Co., at Lacon, Ill.

40029 SUTTON, G. L. Wheat grading in Australia. Australasian Baker 51(622): 34, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59-61. Dec. 1948. 298.8 Au7  
Discussion, p. 63, 65, 67.

40030 TOFANI, M. Grain protection? (In Italian.) Italia Agr. 86: 14-16. Jan. 1949. 16 It1  
Italy.

40031 TORRES FILHO, A. The wheat problem. (In Portuguese.) Lavoura 52: 3-5. July/Aug. 1948. 9.2 L39  
Brazil.

40032 UNITED PROVINCES. DEPT. OF AGRICULTURE. Final forecast of the bajra crop for the year 1947-48. Lucknow, 1948. 2 p. 59.9 Un33F

40033 UNITED PROVINCES. DEPT. OF AGRICULTURE. Final forecast of the maize crop for the year 1947-48. Lucknow, 1948. 3 p. 59.9 Un33

40034 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm-to-retail margins for white flour and white bread, by W. E. Blackmore. Washington, 1948. 16 p. 1.941 F3F22

Includes wheat prices.

40035 U. S. BUR. OF AGRICULTURAL ECONOMICS. North Dakota red and amber Durum wheat acreage, 1948. Fargo, 1949. 2 p. 1.941 H8W563

40036 VIEIRA, L. M. Brazilian wheat in figures. (In Portuguese.) Observador Econ. e Financeiro 13(156): 46-49. Jan. 1949. 280.8 Ob72

40037 WHITLOW, S. Foundation seed. Rice News 16(2): 8. Feb. 1949. 59.8 R362

40038 WIEGAND, K. H. Neue grossmühlen in Nordamerika. Getreide, Mehl u. Brot 3: 21-23. Feb. 1949. 298.8 G33

40039 WINTER, J. C. Crop [grain] movements and car shortages. U. S. Prod. & Mktg. Admin. Mktg. Activ. 11(11): 12-15. Nov. 1948. 1.942 A8M34

40040 ZANCHETTA, E. Hectoliter weight [of grain]. (In Italian.) Ital. e i Cereali 3: 244, 249. Aug. 1948. 59.8 It1

Determination of weight and foreign bodies in grain.

#### HONEY AND BEESWAX

40041 BARNES, R. H. A Dutch honey-show. Countryman [Burford] 38: 271-272. Winter 1948. 281.28 C832

40042 BOURDON. La cire des abeilles; ses applications agricoles. Monit. Agr. 2(58): 16. Feb. 20, 1949. 14 M744

40043 BÜDEL, A. Honig und luftfeuchtigkeit. Imkerfreund 3: 73-74. Sept. 1948. 424.8 Im43

40044 GARDNER, L. C. Let's talk about our markets. South. Beekeeper 3(1): 10. Jan. 1949. 424.8 So83

40045 MILES, C. B. I'm in favor of price support. Beekeepers Mag. 12(3): 9. Mar. 1949. 424.8 M58  
Honey.

40046 RAFALES FERRER, S. La cera estampada. Cult. Mod. 31: 408-409. Nov. 1948. 15 C89

40047 ROOT, A. I. Support price for honey. Gleanings Bee Cult. 76: 703. Nov. 1948. 424.8 G47

40048 SILVEIRA, A. H. DA. Hydromel. (In Portuguese.) Rev. Ceres 7: 428. June/Sept. 1948. 9.2 C332



40049 U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey and beeswax production, 1948. Oklahoma City, 1949. 2 p. 1.941 H8H756

40050 U. S. BUR. OF AGRICULTURAL ECONOMICS. Montana 1948 honey production. Helena, 1949. 2 p. 1.941 H8H757

#### LIVESTOCK AND LIVESTOCK PRODUCTS

40051 ALVARE, M. DE. Replanteo: riqueza pecuaria y abasto interno [Cuba]. Rev. Nac. de Cien. Polít.-Econ.-Sociales 8(86): 9-10. Jan. 1949. 280.8 R3295

40052 ALWYN-SCHMIDT, W. Retail demand for small furs should encourage breeders. Black Fox Mag. 32(11): 19, 28-30. Mar. 1949. 410 B56

40053 BINDER, F. Die bedeutung der tierzucht im bäuerlichen betrieb. Allgäuer Bauernbl. 16: 317. Dec. 10, 1948. 18 AL53

40054 BLUNT, H. P. The history of sausages. (Sum.) Chem. and Indus. 1949: 73-74. Jan. 29, 1949. 382 M31C

40055 BONSMAN, F. N. Future of the cattle industry in South Africa. (In Afrikaans.) Landbouweekblad 30(1534): 34, 73, 79-80. Dec. 8, 1948. 24 L232

40056 BREIMYER, H. F. Meat animals: 1949. U. S. Prod. & Mktg. Admin. Mktg. Activ. 11(11): 10-11. Nov. 1948. 1.942 A8M34  
Supplies of meats and meat animals.

40057 BUTLER, K. D. Animal agriculture—builder of soil and men. 2. Northwest. Farm News 32(3): 6. Jan. 21, 1949. 275.293 N81

40058 CARSE, G. M. D. Bacon Pig Carcase Competition conducted by the Australian Meat Board. Agr. Gaz. N. S. Wales 59: 653-654, 666. Dec. 1, 1948. 23 N472

40059 DREW, E. L. 1949 rawstock outlook. Leather & Shoes 117(12): 18-19, 26. Mar. 12, 1949. 303.8 H53

40060 EKSTEEN, H. O., VAN KURUMAN, and VAN MARLE, J. Cattle raising in Bechuanaland with special reference to dairy farming. (In Afrikaans.) Landbouweekblad 30(1535): 30. Dec. 15, 1948. 24 L232

40061 GADOLA, A. The production and commerce in skins in East Africa. (In Italian.) Allevamenti nel Mondo 28: 144-145. July/Aug. 1948. 49 AL56

40062 GERVAIS, L. Pour produire industriellement le porc. Vie à la Campagne 38: 52. Feb. 1949. 80 V67

40063 GIBSON, SIR C. South American hides and leather. Leather Trades' Rev. 90: 545-546. Dec. 29, 1948. 303.8 L48

40064 GRANDPRE, P. Production de viande en 1948. Unité Paysanne 4(166): 2. Jan. 8, 1949. 14 Un3  
France.

40065 GREEN, J. Let us grow more meat. Farmer & Stock-Breeder 63: 153. Jan. 18, 1949. 10 F228  
The return to private enterprise in the meat industry.

40066 HANAU, A. Fett und fleisch bleiben knapp; stand und aussichten der ernährungslage in der welt. Wirtsch. Ztg. 4(7): 5. Jan. 22, 1949. 280.8 W742

40067 HERRING, G. C. Bright prospects for pork producers. South. Planter 109(10): 24-25. Oct. 1948. 6 So89

40068 HOPPER, W. C. Sheep-raising is leading branch of agriculture in New Zealand. Foreign Trade 5: 384-386. Feb. 19, 1949. 286.8 C162

40069 HUNTER, V. H. Nothing is wrong with the [rabbit] industry. Small Stock Mag. 33(3): 17, 60. Mar. 1949. 48.8 P492

40070 HUSH, H. Keep or sell extra brood sows? Wallaces' Farmer & Iowa Homestead 74(4): 181. Feb. 19, 1949. 6 W15

40071 IZMAILOVA, R. S., ed. Zhivotnovodstvo krafa na pod''eme [Animal industry of the [Stavropol] region on a high level of development]. Stavropol', Kraevoe Knizhnoe Izd-vo, 1948. 73 p. 40 Iz4

40072 JAUME, J. Economía balear: ganado equino. Balearic Isl. Diputación Prov. B. de Agr. 50: 6-7. Nov. 1948. 15 B19

40073 JEAN-BLAIN, M. Les aliments d'origine animale destinés à l'homme. Paris, Vigot, 1948. 573 p. 389 J34

40074 KILDEE, H. H. An important Corn Belt contribution. Shorthorn World 33(15): 7-8, 37-38. Oct. 25, 1948. 43.8 Sh8

Livestock industry.

40075 LANIER, P. Le conseil économique et le problème de la viande. Unité Paysanne 3(164): 2. Dec. 25, 1948. 14 Un3  
France.

40076 MCCALLUM, H. A. The new deal for dairying. Land [Sydney] (Farm & Sta. Ann.) 1928: 68, 70. Oct. 20, 1948. 23 L22  
The industry in Australia.

40077 MARSDEN, L. Nigerian hide production conditions. Leather Trades' Rev. 91: 477. Mar. 2, 1949. 303.8 L48

40078 MAUCH, A. 1949? Full speed ahead; a New Year's message specially written for all stock holders. Breeder's Gaz. 114: 5, 26. Jan. 1949. 49 B74

40079 MØLLER, H. Can a large swine production be combined with a large cheese or casein production? (In Danish.) Andelsbladet 50: 167-168. Feb. 10, 1949. 280.28 An2

40080 NATIONAL WOOL GROWERS ASSOCIATION. 1949 platform and program...as adopted by the 84th annual convention, San Antonio, Texas, February 1-4, 1949. 1949. 16 p. 45.9 N211R

Includes resolutions on wool, lamb meat, public lands, forestry, and transportation.

40081 NETSCH, W. A. Future of the industry. (Excerpts.) Amer. Cattle Prod. 30(10): 35-37. Mar. 1949. 49 P94

40082 PAJUELO VERA, J. A. La ganadería comunal indígena en el país. Vida Agr. [Lima] 25: 1071, 1073, 1075, 1077, 1079, 1081-1082. Dec. 1948. 9.8 V66

40083 PARDO SUÁREZ, R. Los mataderos y las carnicerías en el viejo Madrid. II. Aliment. Nac. 6(133): 10-11. Dec. 10, 1948. 389.8 AL42

40084 PERRENOUD, A. Production animale. In Balmer, J. R. Agriculture et viticulture, p. 53-63. Neuchâtel (Suisse), 1948. 33.21 B21  
Switzerland.

40085 PHILLIPS, G. P. Australian pig industry; factors which will influence development. Tasmanian Fruitgrower & Farmer 24(305, i. e., 306): 21. Dec. 1948. 23 T185

40086 POMAR Y POMAR, L. M. La ganadería y las necesidades de la sociedad actual. Balearic Isl. Diputación Prov. B. de Agr. 50: 9-13. Nov. 1948. 15 B19

40087 RICHARDS, P. How many cattle? Feedstuffs 21(8): 36-42. Feb. 19, 1949. 286.81 F322  
Policy.

40088 ROSSI CHAVARRÍA, H. Consideración del problema de abastecimiento de carne en Costa Rica y los principales factores que la afectan. Suelo Tico 1: 117-127. Sept. 1948. 8 Su2

40089 SACCO, P. Experimental herds and assistant shepherds in the French Ten Year Plan for sheep—and in Italy? (In Italian.) Humus 4(12): 22-24. Dec. 1948. 16 H88

40090 STILES, J. A. Venezuela is attempting higher livestock output at present. Foreign Trade 5: 288-290. Feb. 5, 1949. 286.8 C162

40091 TAYLOR, R. Feeder cattle stabilize Arkansas Valley farming. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 68-69. Jan. 1, 1949. 6 R153

40092 THORNE, G. B. Current trends in the swine industry. Hog Breeder 24(4): 6-7, 30. Apr. 1, 1949. 46.8 H672

40093 TINDALL, C. What should we do about beef cattle? Mo. Ruralist 90(4): 4, 20, 22. Feb. 26, 1949. 6 R8891

The situation in Missouri.

40094 U. S. BUR. OF AGRICULTURAL ECONOMICS. Early spring lamb crop - 1949. Washington, 1949. 2 p. 1.9 Ec742E

40095 U. S. DEPT. OF AGRICULTURE. OFF OF INFORMATION. Report on 1949 meat supply, by R. Roberts and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

40096 VILLEGAS, V. Our horse industry fights for survival. Agr.-Com.-Indus. Life 10(12): 14, 30. Dec. 1948. 25 Ag8  
Philippine Republic.

40097 VINE, V. What's ahead for dairymen? Farm J. 73(3): 19. Mar. 1949. 6 F2212

40098 WATSON, R. G. The economics of pig production. Live Stock B. 42: 4-5, 32. (To be cont.) Dec. 1, 1948. 23 F222

The industry in Australia.



40099 WATSON, W. P. The outlook for livestock. *Canad. Countryman* 38(5): 7, 45-46. Mar. 5, 1949. 7 C833

40100 WILLIAMS, E. Some [Texas] ranchmen went broke last year. *Sheep and Goat Raiser* 29(6): 20-21. Mar. 1949. 45.8 Sh3

40101 WIRTH. Wiederaufbau der württemberg-badischen nutzviehhaltung. *Württemb. Wchnbl. f. Landw.* 116: 30. Jan. 15, 1949. 18 W96

#### Analysis and Composition

40102 COMPTON, E. D. Effect of tannage on strength of collagen fibers. *Amer. Leather Chem. Assoc. J.* 44: 140-150. Mar. 1949. 303.9 Am32

Discussion, p. 150-151.

40103 FARDIG, O. B. An evaluation of some methods used in determining the thiamine content of meat and meat products. *Pa. State Col. Abs. Doct. Diss.* (1947) 10: 1-6. 1948. 241.8 P38

40104 HILDITCH, T. P., and SHRIVASTAVA, R. K. The component glycerides of an Indian sheep body fat. *Amer. Oil Chem. Soc. J.* 26: 1-4. Jan. 1949. 307.8 J82

40105 HILDITCH, T. P. A contribution to the discussion of the glyceride structure of stearic-rich animal depot fats. *Amer. Oil Chem. Soc. J.* 26: 41-45. Ref. Feb. 1949. 307.8 J82

40106 INGRAM, M. Fatigue musculaire, pH et prolifération bactérienne dans la viande. *Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem.* 581, 8 p. 1948? 389.9 G792M

40107 JONES, O. The composition of fresh sausages. (Sum.) *Chem. and Indus.* 1949: 74. Jan. 29, 1949. 382 M31C

40108 LEHRER, W. P., JR., BARR, W. F., and MANIS, H. C. Odor and taste tests of pork from animals sprayed with benzene hexachloride. *J. Anim. Sci.* 8: 141-143. Feb. 1949. 49 J82

40109 READ, M. G. The composition of processed sausages. (Sum.) *Chem. and Indus.* 1949: 74. Jan. 29, 1949. 382 M31C

40110 WEIR, C. E. Rate of shrinkage of tendon collagen—heat, entropy and free energy of activation of the shrinkage of untreated tendon. Effect of acid salt, pickle, and tannage on the activation of tendon collagen. *Amer. Leather Chem. Assoc. J.* 44: 108-128. Ref. Mar. 1949. 303.9 Am32

Discussion, p. 138-140.

#### Consumption and Utilization

40111 ROSSOUW, S. D. Wool fat is useful in medicine. (In Afrikaans.) *Wolboer* 1948(16): 29-30. Nov. 1948. 45.8 W83

#### Distribution, Marketing, and Transportation

40112 BIGGAR, H. Beef, the ideal food. *National Live Stock and Meat Board conducts nation wide program.* *Cattleman* 35(10): 29-30, 86, 88, 90, 92, 95-96, 98, 100. Mar. 1949. 49 C29

40113 COOK, E. J. Progress of Karakul co-operative. *Fur Farming J.* 2(5): 11. Mar./Apr. 1949. 45.8 K142

Marketing skins.

40114 DUBBELL, R. W. Prices and markets for todays rabbits. *Calif. Rabbits Mag.* 12(8): 18-19. Mar. 1949. 40.28 Sa5

40115 FICINI, L. Guarantees in purchase and sale of livestock; vices and infectious diseases. (In Italian.) *Terra [Firenze]* 60(3): 3. (To be cont.) Jan. 16, 1949. 16 T274

40116 HOLLANDS, H. F., and CLARK, A. R. Live stock auction markets in Montana, 1946. *Mont. Agr. Expt. Sta. B.* 451, 24 p. July 1948. 100 M76

40117 LEWIS, L. H. Preventing livestock losses. *For Sale, Want & Exch. B.* 11(8): 1. Feb. 1, 1949. 280.38 F74

Marketing.

40118 MACCOLL, E. D. Contrabando de haciendas. *Diario Rur.* 8(844): 8. Jan. 26, 1949. 9.9 D54

Uruguayan cattle.

40119 MITCHELL, P. Merit system in marketing hogs. *Duroc News* 23(3): 58, 62, 64. Mar. 1949. 46.8 N212

40120 MUSSER, K. B. It's the title that's vital. *Guernsey Breeders' J.* 75: 689, 708. Mar. 1, 1949. 43.8 G93

40121 PICKELL, M. W. Opposing forces in livestock markets. *Corn Belt Livestock Feeder* 1(2): 12-13, 19. Nov. 1948. 280.38 C81

40122 RUPP, M. J. Tell your story to the people. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 10, 120-121. Jan. 1, 1949. 6 R153

Public relations campaign in the livestock industry.

40123 RUSSELL, R. S. Government bulk buying; an economic and critical analysis of government purchasing. *Weekly Mkt. News & Mod. Farmer* 27(7): 2; (8): 2; (9): 2. Feb. 17-Mar. 3, 1949. 286.81 C762A

Canadian meat and bacon.

40124 SCHMOLKE, S. Keine nachwuchspflege ohne viehhandelsschule; ein beitrag zur berufsstandspolitik. *Deut. Viehhandel* 3(21): 3. Nov. 15, 1948. 49 D482

40125 STEERMAN, A. Early fall cattle market a bellwether. *Corn Belt Livestock Feeder* 1(2): 15, 23. Nov. 1948. 280.38 C81

40126 SWIFT AND COMPANY. Dairy and poultry products from farm to table. *Swift & Co. Agr. Res. Dept. Informative B.* 8, 16 p. Chicago [1949?] 50.9 Sw52

40127 TAYLOR, M. H. Which markets are best? *Utah Farmer* 68(10): 12, 27. Jan. 8, 1949. 6 D45

Livestock marketing.

40128 VAUGIER, C. Producers at Omaha first on market with new and efficient services. *Natl. Live Stock Prod.* 27(6): 7. Mar. 1949. 280.38 N21

#### Grading, Inspection, Standardization, and Quality

40129 BRUNER, L. On guard against trichinosis. *Hygeia* 27: 182-183. Mar. 1949. 449.8 H993

Dangers of eating undercooked pork.

40130 JEPSEN, A. Veterinary hygiene, bacteriology and parasitology. In *The humanities and the sciences in Denmark*, p. 563-569. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882

Includes milk control and hygiene and meat inspection and control.

40131 KILPATRICK, W. C. The [Washington] State meat inspection program. *Wash. State Col. Inst. Dairy-ing Proc.* 17: 163-164. 1948. 44.9 W27

40132 KUNZE, E. Neuregelung der viehmarktordnung in Schleswig-Holstein. *Deut. Viehhandel* 3(21): 2. Nov. 15, 1948. 49 D482

40133 LOMBARD, C. Sur la composition des pâtés et la nécessité de leur contrôle histologique. *Rev. de Méd. Vét. [Toulouse]* (n. s.) 12: 30-41. Jan. 1949. 41.8 R32

40134 MCINTYRE, E. R. An award of merit is what these stamps mean to buyers. *Natl. Live Stock Prod.* 27(6): 12. Mar. 1949. 280.38 N21

Federal inspection of meat.

40135 MENEUGH, H. The chef knows his pork. *Poland China World* 36(2 i.e. 3): 24. Mar. 1949. 46.8 Sw62

Quality meat from Poland Chinas.

40136 PARMITER, F. Meat and Canned Food Section. *Canada. Dept. Agr. Rpt. Vet. Dir. Gen.* 1948: 39-49. 41.9 C16

Chiefly inspection.

40137 SALA, G. Observations on the bacteriological examination of meats. (In Italian.) *Clin. Vet. [Milan]* 72: 48-49. Feb. 1949. 41.8 C61

#### Packing and Packaging

40138 BROOKBANK, E. B. Correct packaging of frozen meat eliminates dehydration. I-II. *Quick Frozen Foods* 11(7): 89, 91, 191-192, 198. Feb.-Mar. 1949. 389.8 Q4

#### Prices, Price Control, and Rationing

40139 CLAUSEN, A. Quality payment for swine. (In Danish.) *Dansk Landbr.* 68: 65. Feb. 2, 1949. 280.28 V91

40140 CONWAY, H. M. Prices of live stock now better supported by orderly marketing. *Natl. Live Stock Prod.* 27(6): 10. Mar. 1949. 280.38 N21

40141 HADLEY, N. S., and BAUMAN, R. H. Can you afford heavy hogs? *Successful Farming* 47(2): 46-47, 70-71, 114. Feb. 1949. 6 Su12

Feed-hog price relationships.

40142 JENNINGS, R. D. Would added weight make you more money when hogs are sold? *Natl. Live Stock Prod.* 27(6): 15. Mar. 1949. 280.38 N21

Prices.



- 40143 JONAS, L. F. Better prices for pelts with eye appeal. *Natl. Fur News* 21(2): 17, 24. Mar. 1949. 412.628 R59
- 40144 SCHRADER, F. M. Seasonal variation of prices of cattle and dressed beef. *Econ. Annal.* 19(1): 9-11. Feb. 1949. 281.8 Ec72 Canada.

#### Processing and Storage

- 40145 AYALA MARTIN, E. *Manual del curtidor en cunicultura*. Madrid, 1948. 164 p. 303 Ay1
- 40146 BALFE, M. P. Some chemical aspects of leather manufacture. (Abs.) *Chem. & Indus.* 1949: 142-143. Feb. 26, 1949. 382 M31C
- 40147 BARTLEY, J. S., WOLCOTT, K. E., and MCSHANE, J. P. Meat packing plant refrigeration. *Refrig. Engin.* 57(3, *Refrig. Engin. Appl. Data*), 10 p. Mar. 1949. 295.9 Am32J
- 40148 BRADY, D. E., and WEISS, F. J. Uses and functions of sugar in meat curing; and Use of sugar in meat curing, a statistical survey. *New York, Sugar Res. Found.*, 1948. 23 p. 389.3 B722
- 40149 BRIWA, K. E. How to can meats and poultry. *Maine. Agr. Col. Ext. B.* 378, 20 p. Apr. 1948. 275.29 M281B
- 40150 THE CINCINNATI UNION STOCK YARD COMPANY. Annual live stock report, 75. Cincinnati, 1948. folder. 49.9 C49
- 40151 DENVER UNION STOCK YARD COMPANY. Annual live stock report, 63. Denver, 1948. 26 p. 49.9 D43
- 40152 HALL, J. L., and others. Keep the temperature low when storing pork. *Refrig. Engin.* 57: 247-250. Mar. 1949. 295.9 Am32J
- J. Kalen, B. D. Westerman, D. L. Mackintosh, and G. E. Vail, joint authors.
- 40153 KELLER, R. Canned meat strides forward. *Butchers' Advocate* 125(7): 8. Feb. 16, 1949. 286.85 B97
- 40154 MARTIN, M. Meats [canned] in the pressure cooker. *Clemson Agr. Col. S. C. Ext. C.* 55, 4 p. 1948. 275.29 C59C
- 40155 MASNER, L. Leather manufacture in England and France. (In Czech.) *Tech. Hlfka Koželužská* 24: 19-22. Jan. 15, 1949. 303.8 T22
- 40156 MOORE, C. H., and WOOD, G. B. Changing trends in meat packing. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1949: 6-7. Jan. 26, 1949. 275.29 In2Em
- 40157 NIVEN, C. F., JR. Spoilage avoidance and quality control. *Chicago*, 1948? 7 p. 448.2 N64 Meat.
- 40158 OEHLER, R., and KILDUFF, T. J. Treatment of leather with synthetic resins. *Amer. Leather Chem. Assoc. J.* 44: 151-170. Mar. 1949. 303.9 Am32
- 40159 PORTLAND UNION STOCK YARDS COMPANY. Annual report, 39th. With a summary for the years 1909-1948. North Portland, Ore., 1948. 16 p. 49.9 P83
- 40160 SAINT PAUL UNION STOCKYARDS COMPANY. Annual livestock report, 61. South Saint Paul, Minn., 1948. 20 p. 49.9 Sa23
- 40161 SCATTOLIN, L. L. Frozen Argentine meat. (In Italian.) *Humus* 5: 18. Jan. 1949. 16 H88
- 40162 SGAMBATI, A. Protection of man from trichinosis. (In Italian.) *Zooprofilassi* 3: 271-282. Ref. Oct. 1948. 41.8 Z72
- Processing and inspection of pork products.
- 40163 SIOUX FALLS STOCK YARDS COMPANY. Annual live stock report, 32, 1948. Sioux Falls, S. Dakota, 1948. 5 p.-folder. 49.9 Si73
- 40164 SOUTH SAN FRANCISCO UNION STOCK-YARDS. Annual livestock report, 22nd, 1948, folder. South San Francisco, 1949? 49.9 So84 Statistics.
- 40165 TRESSLER, D. K. Freezing pork and pork products. *Hoard's Dairyman* 93(21): 826-827, 829. Nov. 10, 1948. 44.8 H65
- 40166 WICHITA UNION STOCK YARDS. 56th annual live stock report for year ending December 31st, 1948. Wichita, 1948. folder. 49.9 W63
- 40167 WOODROFFE, D. Leather manufacture. Northampton, Eng., 1948. 178 p. 303 W86

#### Statistics

- 40168 BONNEN, C. A., and GABBARD, L. P. Live-stock and poultry statistics for Texas. *Tex. Agr. Expt. Sta. C.* 120, 46 p. July 1948. 100 T31S
- 40169 COYLE, B. W. Oregon's meat animals and wool—agricultural statistics, 1947. *Oreg. State Col. Ext. C.* 527, 6 p. Jan. 1949. 275.29 Or32C
- 40170 EIRE. PIGS AND BACON COMMISSION. Report of proceedings 1947. 1949. 12 p. 281.3469 Ir22 Statistical.
- 40171 SWITZERLAND. EIDGENÖSSISCHES DEPARTEMENT DES INNERN. STATISTISCHES BUREAU. Pferde-, rindvieh- und schweinebestand; Cheptel chevalin, bovin et porcin; eidgenössische viehzählung vom 21 april 1948, ergebnisse nach kantonen und bezirken; recensement fédéral du bétail du 21 avril 1948, résultats par cantons et districts. Bern, 1948. 23 p. 262 St2Pf
- 40172 U. S. BUR. OF AGRICULTURAL ECONOMICS. Montana annual livestock slaughter. Helena, 1949. 2 p. 1.941 S8L7562 Statistics.
- 40173 U. S. BUR. OF AGRICULTURAL ECONOMICS. Sheep and lambs on feed, January 1, 1949. Fargo N. Dak., 1949. 2 p. 1.941 H8Sh4
- Similar reports from Oklahoma City and Portland, Oregon.

#### OILS AND OILSEEDS

- 40174 ANDRESEN, A. H. 28 oleomargarine manufacturers versus 2,500,000 American dairy farmers. Washington, U. S. Govt. Print. Off., 1949. 15 p. 44 An26
- 40175 BAILLE, J. Parlons encore des oliviers. *Réveil Agr.* 58: 53. Feb. 15, 1949. 14 R322 France.
- 40176 BERTRAM, S. H. The keeping quality of elaidinated fats. *Amer. Oil Chem. Soc. J.* 26: 83-85. Feb. 1949. 307.8 J82
- 40177 BINKERT, R. Le soja, sa culture; son utilisation à la ferme. *Monit. Agr.* 2(56): 4. Feb. 6, 1949. 14 M744
- 40178 BLACK, R. H. Proposed revisions of the official U. S. soybean standards. *Grain & Feed Rev.* 38(7): 16. Mar. 1949. 280.28 G78
- 40179 BOATNER, C. H., and others. Gossypol and gossypurpurin in cottonseed of different varieties of *G. barbadense* and *G. hirsutum*, and variation of the pigments during storage of the seed. *Amer. Oil Chem. Soc. J.* 26: 19-25. Ref. Jan. 1949. 307.8 J82
- L. E. Castillon, C. M. Hall, and J. W. Neely, joint authors.
- 40180 BOMBAY. DEPT. OF AGRICULTURE. Final memorandum on the linseed, and rape and mustard crops of the Bombay Province (Including Kolhapur State) for the season 1947-48. Poona, 1948. 7 p. 73.19 In2
- 40181 BUCHNER, G., and LÜDECKE, C. Taschenbuch für die wachindustrie. Ed. 3. Stuttgart, Wissenschaftliche Verlagsgesellschaft, 1948. 620 p. 307 B852
- 40182 BUNTING, A. H. Science in the East African Groundnut Scheme. *Nature [London]* 163: 293. Feb. 19, 1949. 472 N21
- 40183 CHIN, K. C. Deuxième essai de fabrication de sauce de soja en France. *Paris. Acad. des Sci. Compt. Rend.* 228: 266-267. Jan. 17, 1949. 505 P21
- 40184 CHOPIN DE JANVRY, M. La production des oléagineux métropolitains est encore pleine d'avenir. *J. de la France Agr.* 4: 973-974. Nov. 19/25, 1948. 14 J829
- 40185 CLOPTON, J. R., and ROBERTS, A. Chemical studies on oil bearing seeds. II. Hubam clover seed. *Amer. Oil Chem. Soc. J.* 26: 11-13. Ref. Jan. 1949. 307.8 J82
- 40186 CROCIONI, A. The culture of oil-bearing plants in Emilia. (In Italian.) *Olearia* 3(1): 32-36. Jan. 1949. 307.8 OL2
- Summary in French and English.
- 40187 DESNUELLE, P. Glycérides et constituants phosphorés des corps gras. *Indus. de la Parfumerie* 4 (1): 15-20. Jan. 1949. 308.8 In2
- 40188 DUBOULOZ, P., SUZANNE, Y., and VILLERS, J. Sur une technique de dosage des acides gras. *Soc. de Chim. Biol. B.* 30: 538-542. Sept./Oct. 1948. 383 So1



- 40189 ECKARDT, A. Die sojabohne. Kurzbriefe f. Ernähr. u. Landw. 10, A II 4, 2 p. (Concl.) Oct. 1948. 281.8 K96
- 40190 FEIGENBAUM, J. Les essences de citrus en Palestine. Indus. de la Parfumerie 4: 37-38. Feb. 1949. 308.8 In2
- 40191 FREEMAN, J. W. Higher quality peanut needed to meet competition. Peanut J. & Nut World 28(5): 30-31. Mar. 7, 1949. 77.8 P313
- 40192 GATTEFOSSE, J., and IGOLEN, G. L'essence de feuilles de thuya de Barbarie. Indus. de la Parfumerie 4: 35-36. Feb. 1949. 308.8 In2 Arartree.
- 40193 GAUTIER-WALTER, A. Une production qui ne craint pas la mévente: les oléagineux. Monit. Agr. 2(58): 3. Feb. 20, 1949. 14 M744 France.
- 40194 GORDON, E. Déshydrogénation des corps gras. Indus. de la Parfumerie 4: 43-47. Ref. Feb. 1949. 308.8 In2
- 40195 GRACE, N. H. Fats and oils vital to margarine. Food Canada 9(2): 28-30, 32. Ref. Feb. 1949. 389.8 F7323
- 40196 GUENTHER, E., and LANGENAU, E. E. Essential oils and related products. Analyt. Chem. 21: 202-207. Ref. Feb. 1949. 381 J825A Analysis.
- 40197 HAUSSMANN, G. Culture of oilseeds in the U. S. S. R. (In Italian.) Olearia 3(1): 24-31. Ref. Jan. 1949. 307.8 OL2  
Summary in French and English.
- 40198 HEDLUND, E. C. The transportation economics of the soybean processing industry. Urbana, 1948. 17 p. 289.22 H35  
Abstract of thesis - Univ. of Illinois.
- 40199 HILDITCH, T. P. Current work at the University of Liverpool on potential sources of drying oils. Oil & Colour Chem. Assoc. J. 32(343): 5-23. Ref. Jan. 1949. 306.8 O15
- 40200 HOUSEHOLDER, G. M. Householder's testimony on oleo. Statement before the House of Representatives Agricultural Committee hearing on oleomargarine legislation—March 4, 1949. Holstein-Friesian World 46: 528-529, 577. Mar. 19, 1949. 43.8 H742
- 40201 HURD, A. East African groundnuts scheme; an authoritative review of its progress. Rev. River Plate 105(2984): 25-27, 42-44. Feb. 18, 1949. 286.8 R32
- 40202 INTERNATIONAL green book of cottonseed and other vegetable oil products, 34th, 1948/49. Dallas, Texas, 1948. 480 p. 72 In83
- 40203 JACKSON, A. H., and KUMMEROW, F. A. The lipids of dehydrated alfalfa leaf meal. Amer. Oil Chem. Soc. J. 26: 26-28. Ref. Jan. 1949. 307.8 J82
- 40204 KARON, M. L., and HILLERY, B. E. Hygroscopic equilibrium of peanuts. Amer. Oil Chem. Soc. J. 26: 16-19. Jan. 1949. 307.8 J82
- 40205 KELLER, J. C. Commercial edible supply of peanuts on hand February 5 from 1948 crop approximately 470 thousand tons. Peanut J. & Nut World 28(5): 27, 59. Mar. 7, 1949. 77.8 P313
- 40206 KESTER, E. B. Minor oil-producing crops of the United States. Amer. Oil Chem. Soc. J. 26: 65-83. Feb. 1949. 307.8 J82  
Contains an extensive bibliography.
- 40207 KUMMEROW, F. A., and MILLER, B. S. Recent advances in fat chemistry. Baker's Digest 23(1): 25-26, 38. Ref. Feb. 1949. 389.8 S11
- 40208 LAKRITZ, D. E. An analysis of concentrated citrus oils. Ice Cream Field 53(2): 32, 56-57. Feb. 1949. 389.8 Ic23
- 40209 LEUTHOLD, C. A., and ODELL, D. Saga of the soys. Capper's Farmer 60(3): 15, 69. Mar. 1949. 6 M693  
Soybean products.
- 40210 LEWIS, W. R., and QUACKENBUSH, F. W. The use of the polarograph to distinguish between the peroxide structures in oxidized fats. Amer. Oil Chem. Soc. J. 26: 53-57. Ref. Feb. 1949. 307.8 J82
- 40211 MCINERNEY, C. M. The peanut industry in the United States. Peanut J. & Nut World 22(12): 31, 33. Oct. 7, 1948. 77.8 P313
- 40212 MANI, K. V., NIKOLAICZUK, N., and MAW, W. A. Cyanogenetic glucosides and trypsin inhibitors in linseed oil meal. Sci. Agr. 29: 91-95. Ref. Feb. 1949. 7 Sci2
- 40213 MARAR, M. M. K. The groundnut and the food crisis. Madras Agr. J. 35: 385-391. Dec. 1948. 22 M262
- 40214 MARSICO, D. F. Los aceites vegetales; sus características y usos. Bolsa de Cereales, Buenos Aires. Rev. 36(1886): 1-2, 4-5, 7, 10, 12. Feb. 17, 1949. 287 B866
- 40215 MATTILLO, J. J., and PAREKH, H. V. Preparation & study of synthetic drying oils. J. Sci. & Indus. Res. 8B: 29-35. Feb. 1949. 475 J82
- 40216 MAUREL, A. Nouvelle méthode de dosage de l'antranilate de méthyle et de l'indole dans les huiles essentielles. Chim. Analyt. 31: 31-32. Feb. 1949. 383 An72
- 40217 MERZARI, A. H., and MOLINA, J. Oscurecimiento de la salmuera de aceitunas verdes "tipo español." Rev. Argentina de Agron. 15: 225-235. Ref. Dec. 1948. 9 R327  
English summary.
- 40218 NATIVIDADE, J. V. Bergamot. Portugal. Junta Nac. das Frutas. B. 8: 151-158. 1948. 286.3939 P83  
Summary in English and French.  
Varieties and possibilities of production for oil in Portugal.
- 40219 POURPE, A. L'U.S.I.O. [Union Syndicale Interprofessionnelle Oleicole] et la valorisation de l'huile d'olive. Vaucluse Agr. 5(85): 5. Feb. 15, 1949. 14 V26
- 40220 PRESNELL, A. K. A spectrophotometric method for the determination of color of glyceride oils. Amer. Oil Chem. Soc. J. 26: 13-15. Jan. 1949. 307.8 J82
- 40221 ROGENT, I. La fabricación casera de esencias. Cult. Mod. 31: 412. Nov. 1948. 15 C89
- 40222 ST. John, J. L., and VANDECAVEYE, S. C. Producing dollars from "cents." Reclam. Era 35: 17-18, 24. Jan. 1949. 156.84 R24  
Pepperment oil industry in the Pacific Northwest.
- 40223 SARRANCE, J. L'industrie des corps gras au Maroc. Petit Casablancais 30, 1. e. 32(1354): 1-2; (1355): 1-2; (1356): 2. (Concl.) Feb. 21-Mar. 6, 1948. 280.8 P44
- 40224 SWANTON, M. K. Yellow oleo, prohibit its sale and manufacture. Hoard's Dairyman 94: 7. Jan. 1949. 44.8 H65
- 40225 TRUITT, P. T. Margarine—its place in food economics. What's New Home Econ. 13(7): 106-107. Mar. 1949. 321.8 W55
- 40226 TUNG oil, a growing industry in the Gulf South. United Gas Log 9(12): 2-9. Oct. 1948. 307 T832
- 40227 VIEIRA, L. M. Importance of castor beans [Brazil]. (In Portuguese.) Observador Econ. e Financeiro 13(155): 85-92. Dec. 1948. 280.8 Ob72
- 40228 VON FISCHER, W. ed. Paint and varnish technology. New York, Reinhold, 1948. 509 p. 306 V89  
Includes drying oils.
- 40229 WEISS, H. Luminiszenzerscheinungen von sojaerzeugnissen. Getreide, Mehl u. Brot 3: 20-21. Feb. 1949. 298.8 G33
- 40230 WILLIAMS, H. Chemical and engineering aspects of the margarine manufacturing industry. So. African Indus. Chem. 3(1): 3-11. Jan. 1949. 385 So8
- 40231 WILLIAMS, P. A., and others. Processing of cottonseed. IV. Effect of preparation and cooking of meats on the bleach color and storage properties of screw-pressed oils. Amer. Oil Chem. Soc. J. 26: 28-34. Jan. 1949. 307.8 J82  
R. P. Hadden, C. M. Hall, L. E. Castillon, W. A. Guice, R. T. O'Connor, and C. H. Boatner, joint authors.
- 40232 ZATOČIL, G., and BINKO, I. A specification for linseed-oil. (In Czech.) Tech. Hlídka Koželužská 24: 9. Jan. 15, 1949. 303.8 T22

## POULTRY AND POULTRY PRODUCTS

- 40233 ALMQUIST, V. C. Why eastern eggs are tops. Amer. Egg & Poultry Rev. 10(2): 72, 74. Feb. 1949. 47.8 Am38  
Also in U. S. Egg & Poultry Mag. 55(3): 7-8, 41. Mar. 1949. 286.85 Eg3
- 40234 ALP, H. H. Production swings toward specialization. U. S. Egg & Poultry Mag. 55(3): 12-14, 42-43. Mar. 1949. 286.85 Eg3  
In the poultry industry.



40235 ALTHOUSE, S. L. Markets being lost. "Fact-finders" startled by extent and strength of new trend in production and marketing. Hatchery & Feed. 23(3): 32-34. Mar. 1949. 47.8 H28

40236 ANDERSON, R. H. Investigations show variations in grading in turkey processing plants. Farm & Home Sci. [Utah Sta.] 10: 3. Mar. 1949. 100 UtlF

40237 BAINBRIDGE, J. K., JR. Dairy route marketing of eggs. Amer. Egg & Poultry Rev. 10(3): 30, 32. Mar. 1949. 47.8 Am38

40238 BARTON, O. A. Poultry plans for 1949. Dak. Farmer 69(3): 8. Feb. 5, 1949. 6 D14

40239 BECK, F. V. The 1949 poultry outlook. N. J. Farm Econ. Situation 1949: 9-12. Jan./Mar. 1949. 275.28 N4622

40240 BENEY, P. A. Too many cracked eggs? These may be due to mismanagement—infrequent collections and attention to trap-nests, or careless handling. Poultry World 84: 115. Feb. 18, 1949. 47.8 P8682

40241 BENJAMIN, E. W., PIERCE, H. C., and TERMOHLEN, W. D. Marketing poultry products. Ed. 4. New York, Wiley, 1949. 389 p. Ref. (Poultry Sci. Ser.) 280.347 B43M

40242 BENNION, N. L. Oregon's situation has changed; its population is now 50 percent more than in 1940, but the number of chickens is about the same as it was in 1925. Pacific Poultryman 53(3): 7, 26. Mar. 1949. 47.8 P112

40243 BERGER, W. C. The squeals are getting louder. Although many unknown factors will influence conditions plentiful feed supplies foretell keen competition for the poultry industry. Amer. Egg & Poultry Rev. 10(2): 76-78. Feb. 1949. 47.8 Am38

40244 BIHN, A. J. National Plan administration—California style; Bureau of Markets wants power to impose high penalties, but would that improve the quality of chicks or poults? Pacific Poultryman 53(3): 36, 38-39. Mar. 1949. 47.8 P112

40245 BROOKS, J., and HAWTHORNE, J. R. Dried sugar egg powder. Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem. 575: 544-547. 1948? 389.9 G792M

40246 BROOMHEAD, R. Make a good job of your Christmas fowl. Poultry [London] 103: 474. Dec. 14, 1948. 47.8 P869

40247 BROWN, B. I. Looking into 1949. Amer. Egg & Poultry Rev. 10(2): 128. Feb. 1949. 47.8 Am38

40248 BROWN, T. T. Bright future for poultry producers. South. Planter 109(10): 20-21. Oct. 1948. 6 So89

40249 CARPENTER, C. D. The poultry industry has changed; present-day competition is tough on low quality and high costs. Amer. Poultry J. 80(4): 9, 16. Apr. 1949. 47.8 Am32

40250 CHAPMAN, P. W. Poultry industry goals for the Southeast. Amer. Egg & Poultry Rev. 10(2): 48, 50, 52. Feb. 1949. 47.8 Am38

40251 COOK, G. H. Board marketing for B. C. urged. Canada Poultryman 36: 15-16. Jan. 1949. 47.8 C166

40252 CROSBY, J. Fryer "gold rush" hits Santa Maria. Calif. Farmer, South. Ed. 190: 208. Feb. 26, 1949. 6 C126A

40253 DENMAN, C. B. Influence of the consumer; housewife's and retailer's position in relation to the producer. Amer. Egg & Poultry Rev. 10(2): 23-24. Feb. 1949. 47.8 Am38

Grading of eggs and poultry.

40254 DOSSIN, C. O. Keep more eggs in the top grade; correct use of a good egg room means better eggs for market or hatching. Poultry Tribune 54(10): 7, 25-26. Nov. 1948. 47.8 P8642

40255 EARLE, W. The amount of time and travel required to gather eggs. N. Y. Agr. Col. Farm Econ. 166: 4282-4283. Jan. 1949. 280.8 C812

40256 FLEURY, P. Recherches sur les lécithines. II, IV. Soc. de Chim. Biol. B. 30: 521-524, 528-533. Sept./Oct. 1948. 383 Sol

II. Quelques propriétés du "glycérophosphatogène" extrait de la lécithine d'œuf; IV. Etude de l'hydrolyse alcaline de la lécithine d'œuf, by P. Fleury, and H. Guitard.

40257 FLOREA, J. H. How to hit the top egg market. Poultry Tribune 54(10): 11. Nov. 1948. 47.8 P8642

40258 FOSTER, C. What I saw at my packing station. Poultry [London] 104: 154. Feb. 22, 1949. 47.8 P869

Egg packing.

40259 GARDNER, W. Egg promotion means feed promotion. Feedstuffs 21(10): 60-62. Mar. 5, 1949. 286.81 F322

40260 GARLOUGH, J. P. Why, when and how much should a breeder advertise? Hatchery & Feed 23(3): 12, 79. Mar. 1949. 47.8 H28

40261 GORDON, H. E. Hatchery and feed industry's No. 1 problem—more meat, eggs must be consumed. Hatchery & Feed 22(10): 14-15. Oct. 1948. 47.8 H28

40262 GRAY, A. W. Colors in egg packaging; certain colors show up products better than others. Amer. Poultry J. 80(4): 44-46. Apr. 1949. 47.8 Am32

40263 GRAY, A. W. Emotional selling appeal. Amer. Poultry J. 80(3): 54-56. Mar. 1949. 47.8 Am32

Egg marketing suggestions.

40264 GUSLER, G. It looks like a good year for good poultrymen. Nebr. Farmer 91(3): 1, 24. Feb. 5, 1949. 6 N27

40265 GWIN, J. M. Clean egg production equals higher profits. Md. Poultry Ybk. 1949: 60. 47.9 M36

40266 HAFFERT, W. A., JR. Egg washing is here to stay. N. J. Farm & Gard. 20(3): 44, 46-47. Mar. 1949. 6 G162

40267 HAMES, R. C. Maryland fancy eggs. Md. Poultry Ybk. 1949: 58. 47.9 M36

40268 HARTMAN, R. C. Customers demanded started chicks. Hatchery & Feed 22(11): 11, 46-48. Nov. 1948. 47.8 H28

40269 HAWES, R. C. We need more Maryland eggs. Md. Poultry Ybk. 1949: 61. 47.9 M36

40270 HÖBINGER, E. Aufgabe und ziel einer genossenschaftlichen brütereil. Österr. Milch- u. Fettwirtschaft 4: 6-7. Jan. 1949. 44.8 Os72

40271 HOOPINGARNER, A. L. What it costs to process poultry today. U. S. Egg & Poultry Mag. 55(3): 15-16. Mar. 1949. 286.85 Eg3

Discussion, p. 16, 42.

40272 HOUGAN, M. C. Loads turkeys without bruising. Co-op Chick News 19(11, i. e. 12): 6. Dec. 1948. 47.8 C783

40273 HUTTAR, J. C. Let's look at the egg and you. Development of high quality products and de-emphasis of low cost, necessary to the future of the industry. Amer. Egg & Poultry Rev. 10(2): 86. Feb. 1949. 47.8 Am38

40274 INGRAM, C. Louisiana poultry production in 1949. La. Stockman Farmer 1949: 12-13. Jan. 1949. 6 L933

40275 JOHNSON, E. O. Egg handling cost analysis by large Mid-Western plant. Amer. Egg & Poultry Rev. 10(2): 83-84. Feb. 1949. 47.8 Am38

40276 JULL, M. A. Hatching egg storage temperature. Md. Poultry Ybk. 1949: 29. 47.9 M36

40277 KALOYEREAS, S. Freezing eggs in the shell. Outline of the experimental work which has been done and the results obtained in dehydration and subsequent freezing. Amer. Egg & Poultry Rev. 10(3): 26, 28. Mar. 1949. 47.8 Am38

40278 KIRKHAM, J. A. Poultry is big business. Utah Farmer 68(12): 5. Feb. 12, 1949. 6 D45

40279 KITAMURA, F. T. Tests prove that coated eggs keep better than untreated ones. Hawali Farm & Home 12: 67. Jan. 1949. 25 H3191

40280 KOHLS, R. L. For hatcherymen—the green light. We have had three low years to balance the three high years at start of war. Chart readers say 1949 will be third largest of the "roarin' forties." Hatchery & Feed 22(11): 8, 48. Nov. 1948. 47.8 H28

40281 LENNARTSON, R. W. Economic forces that build a successful broiler industry. Amer. Egg & Poultry Rev. 10(2): 32, 34, 36, 38. Feb. 1949. 47.8 Am38

40282 LINDBLAD, G. S. It's a fowl industry. O. A. C. Rev. 61: 248-249. Feb. 1949. 276.8 On8

40283 MACDONALD, R. The poultry industry in Nova Scotia, past and present. Marit. Farmer & Co-op. Dairyman 54(10): 3, 34. Feb. 15, 1949. 7 C77

40284 MAHEUX, G. Dinde de Noël. Avic. Québecois 3(12): 5-7. Dec. 1948. 47.8 Av55

Canada.

40285 MOORE, L. Sees egg shortage instead of surplus. Mkt. Exam. 32(34): 4. Dec. 23, 1948. 280.38 M34

Canada.

40286 NASH, F. M. Prince Edward Island poultry three million dollar industry. Marit. Farmer & Co-op. Dairyman 54(10): 5. Feb. 15, 1949. 7 C77



- 40287 NATIONAL EGG PRODUCTS ASSOCIATION. Survey of egg washing procedures and facilities. n. p., 1948? 3 p. 44 N2132
- 40288 NORTH, M. O. How and why you should start a commercial broiler area. Build your hatchery and store trade by putting the broiler-fryer industry on a business basis in your trade area. Hatchery & Feed 22(10): 10, 40-41. Oct. 1948. 47.8 H28
- 40289 OHIO. BUR. OF MARKETS. Summary of egg price quotations and weekly volume at certain Ohio and other egg markets, for the year 1948. 1949. unpag. 280.3479 Oh3
- 40290 PERRY, J. L. The new order is here! U. S. Egg & Poultry Mag. 55(3): 27, 40. Mar. 1949. 286.85 Eg3  
Poultry and egg industry.
- 40291 PETIT, H. G. National trends in marketing poultry and eggs. Amer. Egg & Poultry Rev. 10(3): 34, 80-82. Mar. 1949. 47.8 Am38
- 40292 PILON, J. U. L'aviculture du Québec, 1948-1949. B. des Agr. 45(1): 11. Feb. 1949. 7 B872
- 40293 POFFENBERGER, P. R., and DEVAULT, S. H. Economic security of poultry industry. Md. Poultry Ybk. 1949: 57. 47.9 M36
- 40294 POULTRY studies under the RMA. Outline of the extensive work being done to develop new fields and effect efficiencies of operations in the growing and merchandising set-ups. Amer. Egg & Poultry Rev. 10(3): 60-63. Mar. 1949. 47.8 Am38
- 40295 RAMSEY, T. H. Quality control in frozen poultry. (Abs.) Food Technol. 3(2): 7-8. Feb. 1949. 389.8 F7398
- 40296 RATCLIFFE, H. E. Hoosiers sure—then added poultry. News Farmer Coop. 15(11): 8-9, 19, 20. Feb. 1949. 166.2 N47  
Egg marketing through the Indiana Farm Bureau Co-operative Association.
- 40297 REED, F. D. The care and handling of eggs. Maine. Agr. Col. Ext. Mktg. Eggs & Poultry. Letter 3, 2 p. June 14, 1948. 275.29 M28Ex
- 40298 REED, F. D. The egg room. Maine. Agr. Col. Ext. Mktg. Eggs & Poultry. Letter 4, 2 p. July 30, 1948. 275.29 M28Ex
- 40299 REED, F. D. What the producer should know about egg grades. Maine. Agr. Col. Ext. Mktg. Eggs & Poultry. Letter 2, 2 p. May 1, 1948. 275.29 M28Ex
- 40300 REYNOLDS, H. J. Poultry processing—improvements and changes. Amer. Egg & Poultry Rev. 10(2): 100, 102-104. Feb. 1949. 47.8 Am38
- 40301 ROBERTSON, E. I. Broilers are big business. Rural New-Yorker 99: 76, 108. Feb. 5, 1949. 6 R88
- 40302 ROGERS, G. B. The holiday outlook for 1948 turkeys. U. S. Prod. & Mktg. Admin. Mktg. Activ. 11(11): 3-6. Nov. 1948. 1.942 A8M34
- 40303 ROHE, H. R. Summary of egg operations. Eggsaminer 26(2): 6. Feb. 1949. 286.85 Eg32  
Pacific Cooperative Poultry Producers.
- 40304 ROMERO MONTERO, R. La producción nacional de huevos y las importaciones. Aliment. Nac. 6(133): 2-3. Dec. 10, 1948. 389.8 AL42  
Spain.
- 40305 ROOME, C. A. Dirty eggs costly; prevention cheaper than lengthy cleaning. Farmer & Stock-Breeder 63: 111. Jan. 11, 1949. 10 F228
- 40306 RUFIN, G. Une production à développer dans le Jura: l'aviculture. Jura Agr. n. s. 19: 1. Feb. 1, 1949. 14 J97
- 40307 SEARLS, E. N. The marketing of dressed chickens in New York State. N. Y. Agr. Col. Farm Econ. 166: 4275-4276. Jan. 1949. 280.8 C812
- 40308 SEVERSON, H. Broilers bring prosperity to families in Tar Heel State. South. Farmer 110(3): 16. Mar. 1949. 6 So833
- 40309 SICER, J. W., and HOGUE, R. L. Pooled egg shipments provide high paid outlets for top quality eggs. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1949: 4-5, 7. Jan. 26, 1949. 275.29 In2Em
- 40310 SMITH, H. D. Seasonal broiler chick demand on the Del-Mar-Va Peninsula. Md. Poultry Ybk. 1949: 39. 47.9 M36
- 40311 SOILAND, R. How I produce clean eggs. Nulaid News 26(11): 6-7. Mar. 1949. 47.8 N917
- 40312 STEWART, C. W. Let's do something about this flockowner headache. Words of wisdom from the biggest poultry state where the problem is acute. Year-round outlet for eggs is one of coming "musts" for hatcheries. Hatchery & Feed 22(11): 26, 28. Nov. 1948. 47.8 H28
- 40313 TERMOHLEN, W. D. Support operations [for eggs] this year and next. U. S. Egg & Poultry Mag. 55(3): 20-21, 36-38. Mar. 1949. 286.85 Eg3
- 40314 TERMOHLEN, W. D. The USDA's poultry programs for 1949. Amer. Egg & Poultry Rev. 10(2): 63-64, 66, 68, 70. Feb. 1949. 47.8 Am38
- 40315 TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Poultry prospects in Texas for 1949. Tex. Agr. Col. Ext. L-103, 1 p. 1949. 275.29 T313
- 40316 U. S. BUR. OF AGRICULTURAL ECONOMICS. Monthly egg production, 1947-48. Washington, 1949. 14 p. 1.942 D22M76
- 40317 U. S. BUR. OF AGRICULTURAL ECONOMICS. Turkey crop, 1949. Fargo, N. Dak., 1949. 2 p. 1.941 H8T843
- 40318 U. S. BUR. OF AGRICULTURAL ECONOMICS. Young chickens and potential layers on farms 1947-49. Washington, 1949. 3 p. 1.941 H8C432
- 40319 U. S. BUR. OF ANIMAL INDUSTRY. High-lights of egg quality investigations, by E. H. McNally, J. P. Quinn, and M. W. Olsen. Washington? 1949? 2 p. 1.972 A2H53
- 40320 WARREN, C. C. Growth of the poultry meat industry. Amer. Egg & Poultry Rev. 10(2): 108-109. Feb. 1949. 47.8 Am38
- 40321 WINTER, A. R., and COTTERILL, O. J. The preservation of shell egg quality by oil dipping right on the farm. Amer. Egg & Poultry Rev. 10(3): 14-16, 19. Mar. 1949. 47.8 Am38
- 40322 WINTER, A. R., and WRINKLE, C. Proper defrosting methods keep bacterical counts low in frozen egg products. U. S. Egg & Poultry Mag. 55(3): 28-31, 44. Ref. Mar. 1949. 286.85 Eg3
- 40323 WISE, H. North Georgia broiler industry. Amer. Egg & Poultry Rev. 10(2): 28, 30. Feb. 1949. 47.8 Am38
- 40324 WOOD, F. L. Efficiency on the poultry plant pays good dividends. Marit. Farmer & Co-op Dairyman 54(10): 6, 34. Feb. 15, 1949. 7 C77  
Situation in New Brunswick.
- 40325 ZWOLLE, VAN. Benelux and our poultry industry; the opinion of a Dutchman. (In Dutch.) Pluimvee 1948: 351, 353. Nov. 1948. 47.8 P72

## RUBBER AND RUBBER SUBSTITUTES

- 40326 AMERICAN CHEMICAL SOCIETY. DIV. OF RUBBER CHEMISTRY. Bibliography of rubber literature for 1942 and 1943. Nov. 1948. 352 p. 241.4 B47
- 40327 BEKKEDAHL, N., and STIEHLER, R. D. Natural and synthetic rubbers. Analyt. Chem. 21: 266-278. Ref. Feb. 1949. 381 J825A  
Analysis.
- 40328 BELOW, F. Die gummi-industrie vor und nach dem währungsschnitt. Kautschuk u. Gummi 1: 265-266. Oct. 1948. 305.8 K162  
Germany.
- 40329 BELOW, F. Kautschuk strategisch. Kautschuk u. Gummi 1: 237-238. Sept. 1948. 305.8 K162
- 40330 CHERIAN, P. P. Latex marketing in India. Planters' Chron. 43: 551-552. Dec. 15, 1948. 22 P693
- 40331 GILS, G. E. VAN. Latex research in Indonesia (especially a study of coagulation in Hevea latex). (In Dutch.) Chron. Nat. 104: 311-314. Nov. 1948. 514 B31
- 40332 MAST, W. C., and FISHER, C. H. Improved preparation of acrylic rubber curing methods and properties of the vulcanizates. U. S. Bur. Agr. and Indus. Chem. AIC-206, 17 p. Ref. Dec. 1948. 1.932 A2Ag82
- 40333 PAETSCH, H. Untersuchung von Russ in der gummi-industrie. Kautschuk u. Gummi 1: 241-244, 277-280. Sept.-Oct. 1948. 305.8 K162
- 40334 PROSKE, G. E. Beiträge zur entwicklung von kunstkauschuk-mischungen. 2. Kautschuk u. Gummi 1: 245-246. Sept. 1948. 305.8 K162



40335 SEÁRA, G. How rubber production was sabotaged in the Amazon region. (In Portuguese.) Assoc. Com. do Amazonas. B. 8(86): 3-6. Sept. 1948. 286.9 As7B

40336 TRELOAR, L. R. G., and SAUNDERS, D. W. Flow phenomena in rubber. 1. Flow curves for natural rubber. Brit. Rubber Prod. Res. Assoc. P. 102: 92-100. 1948. 305.9 B772

40337 UPTON, T. E. The rubber estate of the future and a balanced economy. Planter 24: 638-641. Nov. 1948. 78.8 P69  
Malaya.

40338 VOLLEMA, J. S. Survey of hevea plantings 1948-1949. (In Dutch.) Bergcultures 17: 101-107. Nov. 1, 1948. 22.5 B45

## SEEDS

40339 BUTTON, D. 'Iowa certified' seed. Iowa Agriculturist 48(6): 12. Jan. 1949. 6 Io9

40340 CLARK, A. B. State certification of vegetable seed. Seed World 64(4): 10, 12, 44. Feb. 21, 1949. 61.8 Se52

40341 CURTIS, C. H. An 18th century seedsman's list. Grower [London] 31: 159, 161. Jan. 22, 1949. 286.83 M34

40342 CUTHBERTSON, D. G. What's behind the 'dime' packet of garden seed? West. Feed & Seed 4(2): 8, 20. Feb. 1949. 389.78 W52  
The seed industry.

40343 DEUTSCHE WIRTSCHAFTSKOMMISSION. HAUPTVERWALTUNG LAND- UND FORSTWIRTSCHAFT. Leitfaden für den saatenanerkennen. Berlin, Deutscher Zentralverlag, 1948. 34 p. 61 D48

40344 EDLER, G. C. Seed supplies for 1949 crop year are smaller than in 1948. Agr. Situation 33(2): 5. Feb. 1949. 1 Ec7Ag

40345 FINDLAY, W. M. Buying seeds. Highland and Agr. Soc. Scot. Trans. (Ser. 5) 60: 1-30. 1948. 10 H536

Quality and suitability of forage plant seeds.

40346 FREDENSLUND, E. Can the uncertainty of seed growing be limited? (In Danish.) Tidsskr. for Frøavl 37: 96-98. Jan. 1949. 61.8 T43

40347 HAND, J. A. What do farmers use for seed? Farmer's Mag. 46(2): 10, 46-47. Feb. 1949. 7 C165  
Seed quality in Canada.

40348 HÄRING. Die saatgutversorgung im frühjahr 1949. Württemberg. Wchnbl. f. Landw. 116: 89-90. Feb. 19, 1949. 18 W96  
Germany.

40349 HOFFMAN, A. C. The South African Cooperative Seed Exchange Limited. I-II. (In Afrikaans.) Primary Prod. [Cape Town] 24(2): 11; (3): 9. Jan. 14, 21, 1949. 281.8 P93

40350 HORNE, F. R. We need vegetable seed certification even if it means dearer commercial seed. Grower [London] 31: 207. Jan. 29, 1949. 286.83 M34

40351 KANSAS. STATE BD. OF AGRICULTURE. Agricultural seed. Oct. 1948. 35 p. 2 K13Re

40352 KROSBY, P. Seed quality in South-Norway. (In Norwegian.) Norsk Landbr. 15: 89-91. Mar. 4, 1949. 11 N8122

40353 MARX, R. E. Economics of alfalfa seed production in Kansas. Kans. Agr. Expt. Sta. Agr. Econ. Rpt. 36, 32 p. Oct. 1948. 281.9 K132

40354 MUNN, M. T., BUCHHOLZ, A. B., and HOFER, A. W. The quality of seeds on sale in New York in 1948. N. Y. (State) Agr. Expt. Sta. B. 735, 40 p. Jan. 1949. 100 N48

Includes legume inoculants tested in 1948.

40355 NICOLAISEN, W. Saatguterzeugung und saatgutversorgung. Ceres [Hamburg] 1948(5/6): 14. 80 C332

40356 POLLOCK, E. O. Increasing distribution of improved varieties. Seed Trade News 52(7): 1, 12. (To be cont.) Feb. 16, 1949. 61.8 Se3  
Abstract in Seed World 64(5): 18, 20. Mar. 7, 1949. 61.8 Se52

40357 RINNER, D. 8,000 samples a year! Iowa Agriculturist 48(6): 11. Jan. 1949. 6 Io9  
Testing seed samples.

40358 ROWSELL, J. Know what you sow. Farmers Weekly [London] 30(6): 42. Feb. 11, 1949. 10 F2226  
Seed certification scheme with particular reference to New Zealand methods.

40359 SEHLMAYER, A. Marketing of garden seeds given detailed discussion. Seed Trade News 52(8): 1, 3. (To be cont.) Feb. 23, 1949. 61.8 Se3

40360 SMIRNOVA, A. L. Methods of analyzing seeds for cleanliness. (In Russian.) Selekt. i Semen. 15(6): 62-69. June 1948. 61.9 Se5

40361 WALKER, H. C. Air lift seed elevator. Seed World 64(5): 14, 57. Mar. 7, 1949. 61.8 Se52

40362 WORK, P. Analyzing new [vegetable] seed varieties. Food Packer 30(3): 41-42, 44. Mar. 1949. 286.83 C165

## SUGAR AND SIRUPS

40363 AHLFELD, H. The beet sugar industry in Europe. Sugar 44(3): 33-34. Mar. 1949. 65.8 F11

40364 ALLEN, L. A., COOPER, A. H., and MAXWELL, M. C. C. Microbiological problems in the manufacture of sugar from beet. II. Losses due to fermentation during the diffusion process. Soc. Chem. Indus. J. 67: 450-457. Dec. 1948. 382 M31

40365 ASSOCIATION OF SUGAR PRODUCERS OF PUERTO RICO. Annual report of the president, 1948. Washington, 1949? 12 p. 65.9 As7A

40366 AZEVEDO, F. DE. Canaviais e engenhos na vida politica do Brazil. Rio de Janeiro, Instituto do Açúcar e do Alcool, 1948. 243 p. 281.163 Az2

40367 BARBEAU, M. La temporada del azúcar. Veritas 19(217): 28-29. Jan. 15, 1949. 280.8 V58

40368 BENNING, A. E. What about 1949 sugar prices. Sugar Beet 8: 11-12. Mar. 1949. 66.8 Su34B

40369 BOMMEL VAN VOLTEN, J. M. VAN. Concentration in the cooperative sugar industry. (In Dutch.) Netherlands. Natl. Coop. Raad. Maandbl. 9: 123-126. Nov. 1947. 280.29 N216M

40370 BUNUAN, V. G. The duties and functions of the Sugar Quota Office. Agr.-Com.-Indus. Life 10(12): 18, 31. Dec. 1948. 25 Ag8  
Philippine Republic.

40371 CHAMBERLAIN, R. F. Ion exchange in processing of raw sugar. Internatl. Confectioner 59(2): 32. Feb. 1949. 389.8 In214

40372 COPE, J. A. Maple sirup and sugar. N. Y. Agr. Col. Cornell Ext. B. 397, rev., 32 p. Jan. 1949. 275.29 N48E

40373 COPE, J. A. Sapping it. N. Y. State Conserv. 3(4): 11. Feb./Mar. 1949. 279.8 N48

40374 CUBA. MINISTERIO DE AGRICULTURA. Memoria azucarera, 1940-1946. Habana, 1948. Unpaged. 65.9 C892

40375 DICKINSON, B. N. Commercial ion-exchange purification of sugar-bearing solutions. Food Technol. 3: 48-51. Feb. 1949. 389.8 F7398

40376 DUCOTE, K. J. Your county agent reports the 1948 sugarcane harvest in Avoyelles Parish. Sugar B. 27: 163. Mar. 1, 1949. 65.9 Am32

40377 GILLETT, E. C. Low grade sugar crystallization. San Francisco, Calif. and Hawaiian Sugar Refining Corp., 1948. 52 p. 65 G41

40378 HADDON, E. Mauritius molasses of 1947. Rev. Agr. de l'île Maurice 27: 244-245. Sept./Oct. 1948. 24 M44

40379 HIRST, E. L., and JONES, J. K. N. Pectic substances. VIII. The araban component of sugar-beet pectin. Chem. Soc. J. 1948: 2311-2313. Dec. 1948. 382 L84J

40380 KHANNA, K. L., and CHACRAVARTI, A. S. Some observations on juices of diseased sugarcane. Cur. Sci. 18: 19. Jan. 1949. 475 Sci23

40381 LAMBORN, O. H. The changing sugar scene. Confectioner 33(10): 20, 24, 39, 42. Feb. 1949. 389.8 N81

40382 LAMBORN, O. H. Sugar price trend in upward march. Amer. Carbonator & Bottler 88(579): 82. Mar. 1949. 389.8 So8

40383 LONG, L., JR. Sugar and sugar by-products in the plastics industry. Sugar Res. Found. Technol. Rpt. Ser. 5, 66 p. Ref. Jan. 1949. 65.9 Su34T

40384 MCGUIRE, P. J. The Cliver Morton continuous diffuser. Sugar 44(3): 31-32. Mar. 1949. 65.8 F11



40385 MONTGOMERY, R. The chemical production of lactic acid from sugars. Sugar Res. Found. Sci. Rpt. Ser. 11, 28 p. Jan. 1949. 65.9 Su34

40386 NEUMAN, R. Tecnologia agrícola: proyecto de la planta de fuerza para un ingenio moderno con capacidad para trabajar 2250 toneladas de caña en 24 horas. Agronomía [Lima] 13(54): 5-18. 1948. 9.8 Ag83

40387 PUERTO RICO sugar manual, including Dominican Republic and Haiti, 1948. New Orleans, La., 1948. 206 p. 65.8 P96

On cover: The Gilmore Puerto Rico sugar manual.

40388 PULZ, K. Steigerung der zuckerrüben-erzeugung im jahre 1949. Burgenländ. Bauernbündler 2(2): 9. Jan. 25, 1949. 19 B91

40389 REVILLA, J. H. El problema de la industria cañera en Costa Rica. II. Suelo Tico 1: 109-116. Sept. 1948. 8 Su2

40390 ROBBINS, W. P. Making maple syrup. Mich. Farmer 211: 77, 104. Feb. 5, 1949. 6 M58

40391 ROMERO, M. A. La polémica azucarera [Cuba]: verdades como puños. Rev. Nac. de Cien. Polft.-Econ.-Sociales 8(86): 11-12. Jan. 1949. 280.8 R3295

40392 RUSSELL, R. S. Government bulk buying: an economic and critical analysis of government purchasing; sugar. Weekly Mkt. News & Mod. Farmer 27(4): 2. Jan. 27, 1949. 286.81 G762A Canada.

40393 SCHÖBER, K. Zucker aus Kuba! Landwirt-schaft 22(1/2): 3-5. 1949. 19 L235 Austrian sugar production problems.

40394 SCHOENFELD, S. Caña y remolacha: altibajos de su desarrollo. Rev. Nac. de Ciencias Polft.-Econ.-Sociales 8(87): 11-12. Feb. 1949. 280.8 R3295

40395 SERNA SILVA, F. Diccionario técnico azuca-rero: inglés-español. Zafra 1(11): 40-43; (12): 39-43. (Cont.) Nov.-Dec. 1948. 65.8 Z12

40396 STRANTZ, V. Verarbeitung von zuckerrüben. Kärntner Bauer 98: 361-362. Nov. 1, 1948. 19 K14

40397 VAZQUEZ, E. A. Utilización industrial del cogollo y del follaje de la caña de azúcar. Zafra 1(12): 32-38. Dec. 1948. 65.8 Z12

40398 WEISS, F. J. Cacao and sugar. New York, Sugar Res. Found., 1948. 25 p. 68.3 W43

40399 WIGGINS, L. F. The sugar cane as a source of raw materials for the chemical industry. (Sum.) Chem. and Indus. 1949: 72. Jan. 29, 1949. 382 M31C

40400 WILSON, E. B. Sugar and its wartime con-trols, 1941-1947. New York, Statistical Press, 1948? 4 v. 281.365 W69

Rationing and price and other controls.

40401 ZERBAN, F. W. El problema del color en la fabricación de la sucrosa. Zafra 1(11): 10-13. (Cont.) Nov. 1948. 65.8 Z12

40402 ZEZZOS, R. Sugar and the sugar problem in Italy. (In Italian.) Gior. dei Pasticciieri e Confettieri 56: 309-310. Sept. 1948. 389.8 G432

#### TOBACCO

40403 BERNHARD, C. H. Tobacco inspectors are made. U. S. Prod. & Mktg. Admin. Mktg. Activ. 11(11): 20-22. Nov. 1948. 1.942 A8M34

40404 CHEVALIER, A., and EMMANUEL, H. F. Le tabac. Ed. 2. Paris, Presses U. de France, 1948. 126 p. (Que Sais-je? Le Point des Connaissance Actuel-les. 87) 69 C42T

40405 CUBA. COMISIÓN NACIONAL DE PROPAGAN-DA Y DEFENSA DEL TABACO HABANO. Memoria 1945. 1948. 459 p. 286.3699 C89

40406 HINTON, D. R. Latakia tobacco. Foreign Agr. 13: 44-45. Feb. 1949. 1.9 Ec7For Chiefly curing.

40407 NAUDE, C. P. The production of nicotine sulphate from waste tobacco. Farming So. Africa 23: 736, 750. Nov. 1948. 24 So842

40408 PIGUING, R. M. The need for tobacco coopera-tives. Agr.-Com.-Indus. Life 10(12): 8, 37. Dec. 1948. 25 Ag8 Philippine Republic.

40409 SZTEYN, K., and VEN, R. VAN DER. Forced fermentation. (In Dutch.) Tabaksplant 76(3744): 6-7. Feb. 22, 1949. 286.89 T114

40410 THIGPEN, J. E. Tobacco farmers learn leaf value. South. Planter 109(10): 8, 22. Oct. 1948.

6 So89

Grades and prices.

40411 TOBACCO trade year book & dairy, 1949. London, 1948. 149 p. 286.89 T554

#### MISCELLANEOUS PRODUCTS

40412 APPELL, F. La chromatographie et l'étude des tanins. Rev. Tech. des Indus. du Cuir 41: 1-6. Jan. 1949. 303.8 C89

40413 BRIWA, K. E. How to can fish at home. Maine. Agr. Col. Ext. B. 382, 12 p. May 1948. 275.29 M281B

40414 CASTELL, C. H. Slow freezing and storage of fish reduces bacteria. Food Canada 9(2): 22-24. Feb. 1949. 389.8 F7323 Fourth article in a series.

40415 COOPER, R. W. California fish canning in-dustry packages on huge scale. Packaging systems 5(2): 7-9, 11-14. Feb. 1949. 309.8 P126

40416 HILL, W. W. The Hill plan. Hopper 1949: 4-7. Jan. 1949. 70.8 H77 Hops marketing.

40417 LEMON, J. M. Fish refrigeration. II-III. Food Indus. So. Africa 1(9): 33-36; (10): 37-38, 44. Jan.-Feb. 1949. 389.8 F7372

40418 RICHTER, A. Plantes médicinales, aromati-ques et herbes fines en 1947. (In Czech.) Czechoslova-kia. Státní Úřad Statis. Statis. Zpravodaj 11: 316. Sept. 1948. 266.8 C99S

40419 ROWELL, P. T. Hop marketing agreement hearing. Hopper 1949: 2-4. Jan. 1949. 70.8 H77

40420 ROWELL, P. T. Summary of the proposed hop marketing agreement. Hopper 1949: 7-9. Jan. 1949. 70.8 H77

40421 SALMON, E. S. Thirty-first report on the trial of new varieties of hops, 1947. Inst. Brewing J. 55: 29-38. Jan./Feb. 1949. 390.9 In7

40422 SEVERN, M. Abalone steaks—trimmed, sliced, packaged. Food Indus. 21: 338. Mar. 1949. 389.8 F737

40423 SHEWAN, J. M. Recent experiments in the salt curing of herrings. Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem. 580, 5 p. 1948. 389.9 G792M

40424 SOLORZANO B., P. Plantas industriales nicaraguenses: zarzaparrilla. Managua. Cám. Nac. de Com. e Indus. B. 13(149): 19. Nov. 1948. 287 M316

40425 VERZELE, M., and GOVAERT, F. Nouvelle méthode de dosage des acides amers dans le houblon. Gand? 1948. 8 p. 387 V62

Summary in English and Flemish.

#### AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

#### GENERAL

40426 ALLUE MORER, A. El año 1948 en la econo-mía agrícola española. Ceres [Madrid] Sup. Inform. 14(410): 2-3. Jan. 15, 1949. 15 C33

40427 ARISTIZABAL ESTRADA, J. La economía agrícola del Huila. Agr. Trop. Sup. Agron. 5: 29-34. Jan. 1949. 26 Ag8

40428 BINNS, B. O. Agricultural economy in Burma. Rangoon, 1948. 120 p. 281.182 B51

40429 BUHLE, Kennzeichen einer verfehlten wirt-schaftslenkung. Landw. Wehnl. f. Westfalen u. Lippe 105: 373-374. Dec. 18, 1948. 18 L2346

40430 COAD, P. H. Agriculture and industry as I see it. West. Reserve Farmer 4(2): 4, 6. Feb. 1949. 6 W5292

40431 IMPLICATIONS of the Economic Cooperation Administration to labor, agriculture, business and in-dustry. Natl. Forum Labor, Agr. & Indus. Ann. Proc. 4: 98-101. 1948. 280.9 N2182

Panel discussion; A. Moore, leader.



- 40432 INDIAN SOCIETY OF AGRICULTURAL ECONOMICS. The Indian Society of Agricultural Economics; a retrospect. Bombay, 1948. 10 p. 281.9 In24R
- 40433 JESNESS, O. B. Essentials for economic health. Natl. Forum Labor, Agr. & Indus. Ann. Proc. 4: 16-20. 1948. 280.9 N2182
- 40434 KENT, R. Outlook for ECA rural reconstruction program. China Weekly Rev. 112: 270-271. Feb. 12, 1949. 280.8 C445
- 40435 LABRIFFE, L. De quelques considérations sur le régime actuel des avances sur dommages de guerre. Inst. des Rech. sur le Caoutchouc en Indochine. Cahiers I. R. C. I. 3: 37-38. 1948. 78.9 In7 Indochina.
- 40436 LAURENS, C. Il faut "repenser" les problèmes économiques. Unité Paysanne 3(164): 1, 4. Dec. 25, 1948. 14 Un3 France.
- 40437 NATIONAL FORUM OF LABOR, AGRICULTURE, AND INDUSTRY. Annual proceedings, 4th, 1948. 1948. 147 p. 280.9 N2182
- 40438 OLIVA, A. Miracles and uncertainties of agricultural rehabilitation and reconstruction. (In Italian.) Humus 5: 3-4. Jan. 1949. 16 H88 Italy.
- 40439 PROKÚPEK, K. A study of economic and hygienic conditions in the district of Zlín. (In Czech.) Casopis Českoslov. Vet. 3: 699-703. Dec. 10, 1948. 41.8 C27 Includes agricultural material.
- 40440 SANDOZ, F. Economie agraire. In Balmer, J. R. Agriculture et viticulture, p. 86-105. Neuchâtel (Suisse), 1948. 33.21 B21 Switzerland.
- 40441 SCHENCK, H. E. Farmers must fight fear. Hoosier Farmer 34(3): 5. Mar. 1949. 280.82 H76 Economic conditions.
- 40442 SERANDOUR, P. Vers une économie saine. Monit. Agr. 2(54): 3. Jan. 23, 1949. 14 M744 France.
- 40443 U. S. CONGRESS. HOUSE. COMMITTEE ON APPROPRIATIONS. Additional disaster relief in storm-stricken areas. Hearings, 81st Cong., 1st sess. Washington, 1949. 8 p.
- 40444 U. S. CONGRESS. HOUSE. COMMITTEE ON APPROPRIATIONS. Disaster relief in storm-stricken areas. Hearings, 81st Cong., 1st sess. Washington, 1949. 22 p.
- 40445 UTAH. AGRICULTURAL COLLEGE. Utah State Agricultural College; agricultural economics. Logan, 1948. 15 p. (B., v. 48, No. 11) 281.085 Ut12
- 40446 VICTORIA G., G. Panorama agro-económico de los Santanderes. Agr. Trop. 5(2): 31-39. Feb. 1949. 26 Ag8
- 40447 WALLER, A. G., and CARNCROSS, J. W. General business conditions. N. J. Farm Econ. Situation 1949: 1-2. Jan./Mar. 1949. 275.28 N4622
- 40448 WALTERS, L. L. Farm forum on economic adjustments facing southern agriculture. Conclude that mechanization of South is desirable and inevitable; does not need and should not want Federal aid, speaker claims. Farm Equip. Retailing 7(3): 52. Mar. 1949. 58.8 F2292

#### AGRICULTURAL FINANCE

- 40449 COX, R. W. Financial structure of Minnesota agriculture. Minn. U. Agr. Ext. Farm Business Notes 311: 2-3. Dec. 27, 1948. 275.29 M663
- 40450 GREENE, S. E. America's economic dilemma. Town & Country Church 51: 5-6. Mar. 1949. 281.28 T66 Capital, labor, and agriculture.
- 40451 GSCHWEND, K. Die blinde kuh gehört nicht zur landwirtschaft. Süddeut. Molk.-Ztg. 69: 146. June 17, 1948. 44.8 Su2 On the currency reform.
- 40452 LARUELLE, R. La réforme fiscale et l'agriculture. Monit. Agr. 2(56): 12; (57): 5. (To be cont.) Feb. 6, 13, 1949. 14 M744 France.
- 40453 PRIETO C., R. Latifundio, capital, trabajo. Agros [Cochabamba] 1: 85-87. Oct. 1948. 9.4 Ag86
- 40454 RENAUD, V. Le budget de 1949 et la réforme fiscale. Acclimatation 76: 13, 25, 31. Jan. 15, 29, Feb. 5, 1949. 14 Ac2 France.
- 40455 RICHOUX, M. Au sujet de la réforme fiscale. Agr. Prat. 113: 19. Jan. 1949. 14 J82
- 40456 STEDEN, A. Kaufkraftprobleme der landwirtschaft. Wien. Bauernbündler 2(2): 3. Jan. 22, 1949. 19 W632
- 40457 WILLIAMS, S. W. Governmental costs and taxes in 150 Vermont towns. Vt. Agr. Expt. Sta. B. 546, 28 p. Sept. 1948. 100 V59

#### Credit

- 40458 AMERICAN BANKERS ASSOCIATION. AGRICULTURAL COMMISSION. Bank credit for American agriculture, 1948. 1949? 284.29 Am3
- 40459 BROCKMAN, W. E. Opportunities in poultry financing. Burroughs Clearing House 33(6): 26-27, 62-63. Mar. 1949. 284.8 B94
- 40460 DANFORTH, D. Who should finance the feeder? Feed Bag 25(2): 63-64, 68. Feb. 1949. 389.78 F32
- 40461 FERREIRA FILHO, C. The law of valorization and financing of the Rubber Bank [Brazil]. (In Portuguese.) Assoc. Com. do Amazonas. B. 8(85): 3-5. Aug. 1948. 286.9 As7B
- 40462 FONDARD, L. Le crédit agricole. Bouches du Rhone Agr. 22(996): 27. Feb. 15, 1949. 14 B662
- 40463 GARTH, J. A bank puts business to work helping farmers. Amer. Business 19(2): 16-17, 52-53. Feb. 1949. 280.8 Am35
- 40464 GAULT, A. Les prêts du fonds forestier national. Monit. Agr. 2(58): 12. Feb. 20, 1949. 14 M744
- 40465 GEE, C. W. New way to buy machinery. Soil Conserv. 14: 149. Feb. 1949. 1.6 So3S Financing plan used to purchase a cultipacker-seeder.
- 40466 HEIZER, J. M. Kentucky's production credit association. Ky. Farmer 85(2): 28. Feb. 1949. 6 F2237
- 40467 HEIZER, J. M. Special loan helps finance farm improvements. News Farmer Coop. 15(11): 7, 15. Feb. 1949. 166.2 N47 Cooperative credit.
- 40468 IRRIGATION DISTRICTS ASSOCIATION OF CALIFORNIA. Farm loans and the 160-acre law. Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam. 8, 4 p. 1948? 292.9 Ir7
- 40469 IRRIGATION DISTRICTS ASSOCIATION OF CALIFORNIA. What price interest free money? Irrig. Dist. Assoc. Calif. Water Econ. Com. Pam. 6, 6 p. 1948? 292.9 Ir7
- 40470 MCANELLY, W. J. Favorable, understanding banking connection big need for the ranchman. Sheep & Goat Raiser 29(5): 40-41. Feb. 1949. 45.8 Sh3
- 40471 MERTENS, H. Credit, a useful farm tool. Successful Farming 47(3): 49, 126-129. Mar. 1949. 6 Su12
- 40472 MISEIÜK, K. A. Kreditovanie sel'khozbankom kolkhozov i sel'skogo naseleniia [Credit given by the agricultural bank to collective farms and rural population]. Moskva, Gosfinizdat, 1948. 101 p. 284.2 M68
- 40473 NAEGELEN. Emprunt 1949 5% pour l'équipe-ment de l'Algérie. Voix des Colons 31(1492): 1. Feb. 21, 1949. 24 V85
- 40474 NEW JERSEY. AGRICULTURAL EXPERIMENT STATION. Where to get farm credit. N. J. Agr. Expt. Sta. B. 745, 20 p. Jan. 1949. 100 N46S
- 40475 PETIT-LAURENT, V. Comment emprunter à l'usage des cultivateurs, artisans, commerçants et petits entrepreneurs. Foyer Rur. [Paris] 12(66, sup.), 7 p. Jan. 30, 1949. 14 F83
- 40476 POFFENBERGER, P. R., DEVAULT, S. H., and WALKER, W. P. Farm mortgage trends in Maryland. Md. Agr. Expt. Sta. B. A49, 45 p. Sept. 1948. 100M36S
- 40477 PREVOT, J. P. Le prêt d'installation aux jeunes. Libération Paysanne 5(201): 7. Feb. 3, 1949. 14 L61 France.
- 40478 RAZIM, S. Agricultural Credit Act and co-operatives. (In Czech.) Družstevní Rev. 2: 49-51. Oct. 1948. 280.28 D84



- 40479 SEVERSON, H. A bank-farm-industry program. *Banking* 41(9): 55. Mar. 1949. 284.8 Am3
- 40480 TARDY, L. Cr dit agricole d'hier et de demain. *Lib ration Paysanne* 5(199): 6. Jan. 20, 1949. 14 L61
- 40481 U. S. FARMERS HOME ADMIN. Better living through better farming; report, 1947/48. Washington, 1949. 35 p. 1 Ag84  
Chiefly supervised credit services.
- 40482 U. S. FARMERS HOME ADMIN. Farm ownership loans. U. S. D. A. PA-62, 8 p. Dec. 1948. 1 Ag84Pro
- 40483 U. S. FARMERS HOME ADMIN. Use of direct farm ownership initial loan funds, July 1 through December 31, 1948. Washington? 1949. 3 p. 1.949 Us22  
Statistics by area and State.

## Income

- 40484 BROWN, H. D. Facts about farm income. *Mkt. Growers J.* 78(2): 20. Feb. 1949. 6 M34
- 40485 SCOVILLE, G. P. Labor incomes. N. Y. *Agr. Col. Farm Econ.* 166: 4272-4274. Jan. 1949. 280.8 C812
- 40486 VONDELING, A. The influence of soil fertility on the income from Friesian agriculture. (In Dutch.) *Econ. Statist. Ber.* 34: 30-31. Jan. 12, 1949. 280.8 Ec722  
Summary in French and English.
- 40487 WAITE, W. C. Farm income in Minnesota. *Minn. U. Agr. Ext. Farm Business Notes* 311: 1-2. Dec. 27, 1948. 275.29 M663

## Inflation

- 40488 CANONGE, H. Apr s l'inflation. *Bas-Rhin.* *Agr.* 4: 61, 63. Feb. 5, 1949. 14 B29
- 40489 RAM, SIR S. Inflation and the land. *Eastern Econ.* 12: 102. Jan. 21, 1949. 280.8 Ea72  
India.

## Insurance

- 40490 BOTTS, R. R. Farm mutuals: their competitive position. *Mutual Ins. J.-News* 44(3): 8-12. (Cont.) Mar. 1949. 284.68 M982
- 40491 CHILANTI, P. The farmers pay in joint contributions 3¼ more than the workers receive. (In Italian.) *Not. Agr. [Padova]* 60: 1. Dec. 1948. 16 N844  
Social security payments.
- 40492 CORDOVIL, I. J. Agricultural insurance; how it becomes possible in Brazil. (In Portuguese.) *Coop [Bahia]* 7(58): 9, 12. Sept. 1948. 280.28 C7842
- 40493 FENDEL, J. Landwirtschaft und arbeitslosen-versicherungsgesetz. Kurzbrieft. f. Ern hrung u. Landw. 11: E 15, 2 p. (To be cont.) Nov. 1948. 281.8 K96  
Germany.
- 40494 FL CKIGER. Indemnisation par l' tat des pertes caus es par les  pizooties aviaires. *World's Poultry Cong. Off. Rpt.* 8: 631-635. 1948. 47.9 W8980  
English summary.
- 40495 GASTINGER, J. Wissenswertes  ber die landwirtschaftliche unfallversicherung. *K rntner Bauer* 99: 58-60. Feb. 15, 1949. 19 K14
- 40496 HUNDGEBURTH, R. Sachsch den- und lebensversicherung nach der w hrungsreform. *Neue Mitt. f. die Landw.* 3: 377. Nov. 5, 1948. 18 N39  
Germany.
- 40497 KON'SHIN, F. V. Gesudarstvennoe strakhovanie imushchestva kolkt ozov [State insurance of collective farm property]. *Moskva, Gosfinizdat*, 1948. 78 p. 284.6 K83
- 40498 MUNOZ ZUNIGA, F. La crisis del seguro contra el pedrisco y sus soluciones. *Ager* 44: 152-156. Aug. 1948. 33.23 Ag3
- 40499 NORTH DAKOTA STATE HAIL INSURANCE DEPT. Annual report, 34th, 1948. 1949? 67 p. 284.69 N814
- 40500 PETIT-LAURENT, V. Les divers moyens de rem dier   la d tresse des vieux. *Fiches Rurales (Inform.)* 43, 12 p. Jan. 1949. 281.8 F44
- 40501 ROTH, R. J. Crop-hail insurance in the United States. *Amer. Met. Soc. B.* 30: 56-58. Feb. 1949. 340.8 Am32

- 40502 U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 cotton sales handbook; dollar coverage insurance. Washington, 1947. 15 p. 1.952 C824
- 40503 U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 cotton sales handbook; yield insurance. Washington, 1947. 16 p. 1.952 C825
- 40504 U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook; 1949 bean. Washington, 1949. 12 p. 1.952 Sa34
- 40505 U. S. FEDERAL CROP INSURANCE CORPORATION. Tobacco crop insurance policy; continuous contract covering 1949 and succeeding years. Washington, 1948. 4 p.-folder. 1 C88To
- 40506 WHITLOCK, W. W. Rural fire protection survey in Illinois. *Mutual Ins. B.* 36: 5-7, 10. Jan. 1949. 296.6 W59

## Taxation

- 40507 ASHE, H. J. Casualty losses are deductible in income tax returns. *Vet. Med.* 43: 459. Nov. 1948. 41.8 M69
- 40508 BERAUS, S. Vernichtende besteuern von siedlern! *Siedler* 4(2): 2. Feb. 1949. 19 Si1  
Austria.
- 40509 BONATO, C. The graduated inheritance tax and agriculture. (In Italian.) *B. dell'Agr.* 82(5): 1-2. Feb. 27, 1948. 16 B87
- 40510 CLERC, M. Pluies d'imp ts et r forme fiscale. *Vauchuse Agr.* 5(85): 2. Feb. 15, 1949. 14 V26
- 40511 ELEAZER, J. M. Some thoughts on margarine taxes. *Cotton Gin & Oil Mill Press* 50(5): 19. Mar. 5, 1949. 304.8 C822
- 40512 F D RATION NATIONALE DE LA PROPRI T  AGRICOLE. Imp ts agricoles (foncier). Paris, 1948. 39 p. 284.5 F312
- 40513 F D RATION NATIONALE DE LA PROPRI T  AGRICOLE. Imp ts sur les b n fices de l'exploitation agricole. Paris, 1948. 39 p. 284.5 F312i
- 40514 FOLEY, W. T. How to cut down your 1948 income tax. *Farmer [St. Paul], Dak. Ed.* 66(23): 8. Dec. 4, 1948. 6 F22iD
- 40515 GROVES, H. M. Impressions of property taxation in Australia and New Zealand. *Land Econ.* 25: 22-28. Feb. 1949. 282.8 J82
- 40516 HAISCH. Die landwirtschaft und der lastenausgleich. *Allg uer Bauernbl.* 17: 1-2. Jan. 7, 1949. 18 AL53
- 40517 HALCROW, H. G. Montana personal income taxation. *Mont. Agr. Expt. Sta. B.* 458, 35 p. Jan. 1949. 100 M76
- 40518 HALCROW, H. G. Montana's tax system. *Mont. Agr. Expt. Sta. B.* 452, 30 p. Sept. 1948. 100 M76
- 40519 HALL, I. F. Farmers' 1948 income tax. *Hoard's Dairyman* 93(21): 822-823. Nov. 10, 1948. 44.8 H65
- 40520 HART, S. H., and EMBREE, W. D., JR. The stockman's income taxes. *Amer. Hereford J.* 39(20): 16-17, 98 B. Feb. 15, 1949. 43.8 Am32  
Also in *Cattleman* 35(10): 74, 76, 78, 80, 82, 84. Mar. 1949. 49 C29
- 40521 KRUSEMEYER, B. Die sofortabgabe nach dem ersten lastenausgleichsgesetz. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 111. Feb. 12, 1949. 18 L2346
- 40522 KUNTZ, G. Wohin werden wir gesteuert? *Bas-Rhin. Agr.* 4: 61-62. Feb. 5, 1949. 14 B29
- 40523 LASHBROOK, R. A new way to assess taxes. *Farm J.* 73(3): 26. Mar. 1949. 6 F22i2
- 40524 MENSIO, C. Subject to taxes and impositions at will. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 95: 15-16. Jan. 31, 1949. 16 C72  
Tax on wine consumption.
- 40525 MILLSAP, B. P. Beware the Ides of March—the day of reckoning. *Southwest. Crop & Stock* 3(2): 12. Feb. 1949. 6 So8942  
Income taxation.
- 40526 MYERS, G. Federal income tax for 1948. *Minn. U. Agr. Ext. Farm Business Notes* 311: 3-4. Dec. 27, 1948. 275.29 M663
- 40527 NERTINGER, J. Durchf hrbare vorsch ge f r eine milderung  berh hter gewinnbesteuerung. *S ddeut. MolK.-Ztg.* 69: 269-272. Sept. 2, 1948. 44.8 Su2



- 40529 RUMPF, H. A. Income taxes, dogs, and kennels. *Dog World* 34(3): 12. Mar. 1949. 48.8 D672
- 40529 STRUNZ, H. So hat das keinen sinn! Landwirtschaft 22(1/2): 6. 1949. 19 L235  
Taxation in Austria.
- 40530 STRUNZ, H. Warum nicht steuervereinfachung? Burgenländ. Bauernbündler 2(2): 10. Jan. 25, 1949. 19 B91
- 40531 STRUNZ, H. Wie berechnet man die umsatzsteuer? Österr. Bauernbündler 4(47): 3. Nov. 27, 1948. 19 Os7

## AGRICULTURAL LABOR AND WAGES

- 40532 ATZMON, J. Regulating the work in the cowsheds of the kibbutzim. (In Hebrew.) *Hassadeh* 29: 87-89. Dec. 1948. 26 H27
- 40533 BARILLI, P. Unemployment of lesser agricultural technicians. (In Italian.) *Terra [Firenze]* 60(6): 3. Feb. 6, 1949. 16 T274
- 40534 BLOHM, G. Leistungsnormen für landwirtschaftliche hand- und zugarbeit. *Deut. Bauerntech.* 2 (10/11): 1-11. Oct./Nov. 1948. 58.8 D48
- 40535 BLOM, A. Farm workers in Sweden. *Land Worker* 30(357): 4. Feb. 1949. 283.8 L22
- 40536 BRUNER, W. L., JR., BLACKSTOCK, H. E., and BARLOW, F. D., JR. Farm labor and the farm labor placement program in Louisiana. *La. Rur. Econ.* 11(1): 1, 4-7. Feb. 1949. 281.8 L93
- 40537 CANADA. DEPT. OF LABOUR. Report, 1947/48. 1949. 96 p. 283 C16R  
Includes report of agricultural labor.
- 40538 CAROLIS, V. DE. For thirty years the burden of labor has weighed heavily upon the agriculture of Cremona. (In Italian.) *Rinascita Agr.* 3(8): 1. Feb. 15, 1948. 281.8 R47
- 40539 CLELAND, S. B. Study of chore habits may save you miles and hours. *Midland Coop.* 16(25): 3. Feb. 23, 1949. 280.28 M58
- 40540 COLEMAN, B. Liability of farmers for injuries to employees. *Calif. Wool Grower* 25(5): 8. Feb. 1, 1949. 45.8 C12
- 40541 CORFIELD, F. V. Facing the true wages issue. *Farmer & Stock-Breeder* 63: 151. Jan. 18, 1949. 10 F228  
Higher wages for farm workers.
- 40542 DANN, A. C. False arguments about tied cottages. *Land Worker* 30(357): 6-7. Feb. 1949. 283.8 L22
- 40543 DARBY, B. T. Some lessons in labour. *Farmer & Stock-Breeder* 63: 93. Jan. 11, 1949. 10 F228  
Compares the miner with the farm worker in South Wales.
- 40544 DERRICK, P. Road to survival. *Land Worker* 30(357): 5. Feb. 1949. 283.8 L22  
Farm wages problem.
- 40545 ERICSON, F. L. Labor need in animal husbandry. (In Swedish.) *Lantmannen* 33: 103-105. Feb. 12, 1949. 11 L234
- 40546 GALLASTEGUI, I. Estudio de la "casa de labor" del campo vascongado. *Surco [Madrid]* 7(81): 22-23. Nov. 1948. 15 Sw7
- 40547 GIGLIOLI, G. The population and housing problem on the sugar estates of British Guiana. *Bel Air, East Demerara, Argosy*, 1948? 20 p. 283 G36
- 40548 GORDON, G. E. Saving labor in milking. *Hoard's Dairyman* 94: 206. Mar. 10, 1949. 44.8 H65
- 40549 GROVES, D. E. Dairy chores take too much time! *Ohio Farmer* 203(3): 16-17. Feb. 5, 1949. 6 Oh3
- 40550 HEBERLE, R. The labor force in Louisiana. *Baton Rouge, Louisiana State Univ. Press*, 1948. 189 p. 283 H354  
Includes farm labor.
- 40551 HOROWITZ, H. Our migrant labor—peons or people? *Cornell Countryman* 46(5): 11, 24. Feb. 1949. 6 C81
- 40552 HURD, L. M. Saving labor on poultry farms. *World's Poultry Sci. J.* 5: 34-35. Jan./Mar. 1949. 47.8 W89
- 40553 IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Iowa farm labor program; a report of the emergency farm labor project of the Agricultural Extension Service, 1943-1947. Ames, 1948. 22 p. 275.2 Io92Ifp
- 40554 KALLBRUNNER, H. Landarbeiterordnungen in alter zeit. *Landwirtschaft* 1948: 310. Nov. 25, 1948. 19 L235  
Austria.
- 40555 KOGAN, P. M. New system of payment for labor of tractor operators and of tractor brigade workers at the machine-tractor stations. (In Russian.) *Tekhsociety MTS* 9(29): 1-7. 1948. 58.8 T223
- 40556 LAUDY. Half pay and unemployment insurance. (In Dutch.) *Boer en Tuinder* 2(102): 3. Dec. 18, 1948. 12 B632
- 40557 MATTHEWS, R. Dairy workers; new regulations for women and young persons. *Co-op. Rev.* 23: 42-43. Feb. 1949. 280.28 C7823  
Great Britain.
- 40558 MESSENGER, R. Ce qu'est le contrat de travail à salaire différé. *Acclimatation* 76: 17. Jan. 22, 1949. 14 Ac2  
France.
- 40559 MITCHELL, H. L. Why import farm workers? *Amer. Federationist* 56(2): 20-21. Feb. 1949. 283.8 Am32
- 40560 MURPHY, R. G. Saving time on dairy farms. *Hoard's Dairyman* 94: 215. Mar. 10, 1949. 44.8 H65
- 40561 OSSVÄLD, W. Haftung für die fehler und schäden der gehilfen. *Drescher u. Pflüger* 2(2): 8-9. Feb. 15, 1949. 58.8 D81
- 40562 PALMGÅRD, E. The Fruit Grower's Association and its gardeners. (In Swedish.) *Sveriges Pomol. För. Fruktodlaren* 1949: 10-12. 86 Sv2F
- 40563 PIEL-DESRUISSEAU, J. L'organisation du travail et les transports à la ferme. *Agr. Prat.* 113: 20-23. Jan. 1949. 14 J82
- 40564 PODLIPENSKII, S. IA. Rationalization of sheaf binding after the reaping machines. (In Russian.) *Sovet. Agron.* 6(7): 85-89. July 1948. 20 S084  
Work management.
- 40565 POPOVICH, I. V. Autumn and winter work in the vineyards. (In Russian.) *Sad i Ogorod* 1948(8): 38-41. Aug. 1948. 87 Sa1
- 40566 PORTEOUS, H. Good labor no problem to Diener. *Calif. Farmer, South. Ed.* 190: 200. Feb. 26, 1949. 6 C126A  
Operation of a labor camp.
- 40567 PUTNAM, R. N. The labor problem and cattle production. *Canad. Cattlemen* 11: 181, 252-253, 257. Mar. 1949. 49 C16
- 40568 SCHULENBURG, L. G. VON DER. Die neuen landarbeiterlöhne in Westfalen. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 109. Feb. 12, 1949. 18 L2346
- 40569 SCHUMY, V. Gründe der abwanderung der landarbeiter. *Allg. Bauern-Ztg.* 3(46): 3. Nov. 27, 1948. 281.8 AL5  
Austria.
- 40570 SEN GUPTA, J. M. Crop cutting experiment on sugarcane in a farm cultivation. *Indian J. Statis.* 9: 47-50. 1948. 251.8 In2
- 40571 SERANDOUR, P. Le salaire paysan en baisse. *Montt. Agr.* 1(50/51): 3. Dec. 25, 1948/Jan. 1, 1949. 14 M744  
France.
- 40572 TROW-SMITH, R. Profit sharing pays dividends. *Rewards for good work.* 3. *Farmer & Stock-Breeder* 63: 263. Feb. 1, 1949. 10 F228  
In Great Britain.
- 40573 TROW-SMITH, R. Rewards for good work; farm examples of how incentives can raise both wages and output. 1. Bonuses and shift milking on a Buckinghamshire holding. *Farmer & Stock-Breeder* 63: 150. Jan. 18, 1949. 10 F228
- 40574 UHLIRS, J. Menschen in not. *Landarbeiter-Archiv* 3: 361-366. Dec. 1948. 283.8 L23  
Austrian labor problems.
- 40575 WILKINS, C. S. Labor requirements for peanut production. *Peanut J. & Nut World* 22(12): 33-34. Oct. 7, 1948. 77.8 P313
- 40576 WINDISCH, K. Neuregelung der löhne in der land- und forstwirtschaft. *Allg. Bauern-Ztg.* 3(41): 4-5. Oct. 23, 1948. 281.8 AL5  
Austria.
- 40577 WOLF, D. C. Less time with your chickens. *Successful Farming* 47(2): 126-127, 129. Feb. 1949. 6 Su12  
Labor-saving practices.



# AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS

- 40578 BACHMANN, H., and GASSER, W. Agrarpolitik und aussenwirtschaft; untersuchungen zum schweizerischen agrarprogramm. St. Gallen, Fehr, 1948. 152 p. (Veröffentlichungen des Schweizerischen Instituts für Aussenwirtschafts- und Marktforschung an der Handels-Hochschule St. Gallen. 9) 281.178 B12
- 40579 BACON, L. B., and others. Agricultural geography of Europe and the Near East. U. S. D. A. Misc. P. 665, 67 p. June 1948. 1 Ag84M  
R. G. Hainsworth, N. Jasny, C. M. Purves, L. Volin, and C. E. Whipple, joint authors.
- 40580 BALMER, J. R. Conditions naturelles. In Balmer, J. R. Agriculture et viticulture, p. 11-17. Neuchâtel (Suisse), 1948. 33.21 B21  
Switzerland.
- 40581 BARR, G. W. Arizona agriculture, 1949. Ariz. Agr. Expt. Sta. B. 220, 17 p. Jan. 1949. 100 Ar4
- 40582 BATTISTELLI, E. Predictable primacy. (In Italian.) Chron. Econ. 50/51: 16-17. Feb. 5, 1949. 280.8 C882  
Italian agricultural problems.
- 40583 BEERNINK, H. J. Agriculture's importance to the economy of the Pacific Northwest. Pacific Northwest Indus. 8: 84-87. Feb. 1949. 280.8 N812
- 40584 BENFORD, H. Our farm plans for 1949. Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(2): 20, 129. Feb. 1949. 6 P945G
- 40585 BERGER, H. Wie müssen wir wirtschaften? Neue Mitt. f. die Landw. 3: 445-446. Dec. 5, 1948. 18 N39  
Germany.
- 40586 BERTHAULT, P. L'agriculture algérienne et ses premières réalisations sociales. Rev. Agr. de l'Afrique du Nord 46: 662-664. Dec. 31, 1948. 80 R326
- 40587 BERTHAULT, P. Situation agricole-tour d'horizon. Rev. Agr. de l'Afrique du Nord 46: 646-648. Dec. 24, 1948. 80 R326
- 40588 BISHOP, A. H. With U.N.N.R.A. in China. Austral. Inst. Agr. Sci. J. 14: 167-174. Dec. 1948. 23 Au74  
Includes agriculture in China.
- 40589 BOAL, R. S. Looking ahead in agriculture. W. Va. Farm News 22, i. e., 27(9): 3. Jan. 1949. 275.293 W. Va.
- 40590 BOCHET, J. J. Production végétale. A. Les cultures. In Balmer, J. R. Agriculture et viticulture, p. 18-39. Neuchâtel (Suisse), 1948. 33.21 B21  
Switzerland.
- 40591 BOYER, J. M. Iran plans extensive development of her agricultural and industrial economy. Foreign Trade 5: 343. Feb. 12, 1949. 286.8 C162
- 40592 CECCARELLI, G. Why the farmer enjoys little of the aid given by the State. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 224-225. Dec. 15, 1948. 16 C72
- 40593 CLARKE, D. A. Dozens of bills affecting agriculture are before [Connecticut] General Assembly for action. Conn. Farmer 3(10): 6-7. Mar. 1949. 6 C763
- 40594 CONGRESO NACIONAL DE INGENIERÍA AGRONÓMICA Y AZUCARERA, 2, HAVANA, 1948. Lineamientos generales para una política agraria nacional. La Habana? 1948. 132 p. 281.14 C76
- 40595 CONGRESO SINDICAL DE LA TIERRA, SEVILLE. Problemas del agro español. Madrid, 1948. 33 p. 281.176 C764
- 40596 COUTIN, P. Comment veut-on orienter la production agricole. Monde Paysan 4(125): 1-2. Jan. 15, 1949. 14 M742  
France.
- 40597 CRUZ, S. Moving in on Mindanao. Cornell Countryman 46(5): 8-9. Feb. 1949. 6 C81  
The new agriculture on the Island.
- 40598 CUMBERLAND, K. B. The agricultural regions of New Zealand. Geog. J. 112: 43-63. Jan. 1949. 472 G29
- 40599 DAVIS, C. C. Partners of town and country. Tenn. Banker 37(3): 6, 8-10. Mar. 1949. 284.8 T25  
Agricultural problems.
- 40600 DEMIDOV, S. F., ed. Pod'em kul'tury sotsialisticheskogo zemledeliya [Raising the level of socialist agriculture]. Moskva, Sel'khozgiz, 1948. 270 p. 33.31 D39P
- 40601 DOANE, D. H. One plan for a farm plan. What do you think of it? The dean of the farm managers designs it to prevent surplus, balance production, and insure the support price. Breeder's Gaz. 114(4): 10, 33. Apr. 1949. 49 B74
- 40602 DUMONT, R. L'agriculture marocaine en péril. Petit Casablancais 30, i. e. 32(1354): 6. Feb. 21, 1948. 280.8 P44
- 40603 EMERY, C. A. Proyecciones del plan de Gobierno sobre la agricultura y la ganadería nacionales. Soc. Rural de Rosario. Rev. 27(321/322): 11-23. Nov./Dec. 1948. 9 So14
- 40604 ERRECART, J. L'agriculture ne doit plus être traitée en parent pauvre. Monde Paysan 4(124): 1, 4. Dec. 15, 1948/Jan. 1, 1949. 14 M742  
France.
- 40605 ETIGNY, J. D'. Tendencias modernas de la agricultura. Asoc. Gen. de Agr. [Guatemala] B. 200: 3-4. Feb. 5, 1949. 8 As52
- 40606 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. National progress in food and agriculture programs, 1948. Sept. 1948. 147 p. 389.9 F735H
- 40607 FOSTER, C. Agriculture at the crossroads. Ill. Agr. Assoc. Rec. 27(2): 4-6, 30. Feb. 1949. 6 IL62
- 40608 FOSTER, C. The long range farm program. What is it? Ill. Agr. Assoc. Rec. 27: 8-9, 48. Jan. 1949. 6 IL62
- 40609 FRANCE. COMITÉ INTERMINISTÉRIEL DE L'ALIMENTATION ET DE L'AGRICULTURE. Rapport annuel sur l'état de l'alimentation et de l'agriculture en 1947-1948. 1-3. 1948? 3 v. 281.9 F842
- 40610 FRANCE. DIRECTION DE LA DOCUMENTATION. L'économie polonaise au seuil du plan de six ans. France. Dir. de la Doc. Notes Doc. et Études 1070, 20 p. Feb. 5, 1949. 280.9 F843  
Includes agriculture.
- 40611 FRANCE. DIRECTION DE LA DOCUMENTATION. L'évolution de l'empire colonial britannique en 1947 et en 1948. 2. France. Dir. de la Doc. Notes Doc. et Études 1048, 16 p. Dec. 30, 1948. 280.9 F843  
Includes agriculture.
- 40612 FRANCE. DIRECTION DE LA DOCUMENTATION. Mémoire relatif au programme économique à long terme des pays de Benelux présenté au conseil de l'O. E. C. E. (25 novembre 1948). France. Dir. de la Doc. Notes Doc. et Études 1071, 27 p. Feb. 9, 1949. 280.9 F843  
Includes an agricultural program.
- 40613 FRANCE. DIRECTION DE LA DOCUMENTATION. Le programme à long terme britannique. France. Dir. de la Doc. Notes Doc. et Études 1063, 36 p. Jan. 27, 1949. 280.9 F843  
Includes agriculture.
- 40614 FRANCE. DIRECTION DE LA DOCUMENTATION. La situation économique de la Hongrie. France. Dir. de la Doc. Notes Docs. et Études 1052, 24 p. Jan. 5, 1949. 280.9 F843  
Includes agricultural situation and policy.
- 40615 FRANCIOSA, L. Produce! (In Italian.) Agr. Mezzogiorno 5(1/2): 1-2. Jan. 30, 1949. 16 Ag8254
- 40616 FRANCIS, C. Francis urges long-range agricultural policy. Canning Trade 71(32): 8. Feb. 28, 1949. 286.83 T67
- 40617 FRIESIAN AGRICULTURAL SOCIETY. Friesian agriculture. Leeuwarden, 1948? 12 p. 33.15 F91F
- 40618 GARRAD, G. H. The background of the expansion programme. Kent Farmers' J. 65: 10-11. Jan. 1949. 10 K41  
In Great Britain.
- 40619 GASTINEAU, R. L. Canada's agricultural outlook. Foreign Agr. 13: 32-33. Feb. 1949. 1.9 Ec7For
- 40620 GAUTIER-WALTER, A. Le bilan de 1948 et les perspectives de 1949; l'agriculture française entre dans une nouvelle période d'abondance. Monit. Agr. 1(50/51): 3. Dec. 25, 1948/Jan. 1, 1949. 14 M744
- 40621 GREAT BRITAIN. BOARD OF TRADE. EXPORT PROMOTION DEPT. Argentina; economic and commercial conditions in the Argentine Republic, October, 1947, by J. G. Lomax. 1948. 128 p. (Overseas Econ. Rpts.) 255.1 G79  
Includes agriculture and agricultural products industries.



- 40622 GREAT BRITAIN. BOARD OF TRADE. EXPORT PROMOTION DEPT. Belgium; report on economic and financial conditions in Belgium, with an annex on the Grand Duchy of Luxembourg, October 1947, by E. J. Joint. 1948. 62 p. (Overseas Econ. Rpts.) 258 G79  
Includes agriculture and trade.
- 40623 GREAT BRITAIN. BOARD OF TRADE. EXPORT PROMOTION DEPT. United States of America; economic and commercial conditions in the United States of America, February 1948, by Sir J. Magowan. 1948. 207 p. (Overseas Econ. Rpts.) 252 G79  
Contains a chapter on agriculture and food.
- 40624 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Saint Vincent, B. W. L., 1947. 1948. 66 p. 286.02 C71  
Chapter 6 is on agriculture.
- 40625 GREAT BRITAIN. COLONIAL OFFICE. Annual report on the Gold Coast, 1947. 1948. 172 p. 286.02 C71  
Includes agriculture.
- 40626 GROOT, G. DE. Structural changes in the world and their importance for agriculture. 1. (In Friesian.) Friesch Landbouwblad 45(49): 7. Dec. 3, 1948. 12 F91
- 40627 GRUBER, H. Rückschau und ausblick. Kärntner Bauer 99: 3-7. Jan. 15, 1949. 19 K14  
German agriculture.
- 40628 HALL, I. F. What's ahead in 1949. Hoard's Dairyman 94: 10, 33. Jan. 10, 1949. 44.8 H65  
Agriculture.
- 40629 HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 130, 6 p.-folder. Feb. 28, 1949. 275.29 W27C
- 40630 HOLMBERG, C. B. Local industry and agriculture in upper Norrland. (In Swedish.) Joel 1948: 56-61. 335.8 J59
- 40631 HOPKINS, D. P. More output per man-hour and more output per acre. Smallholder 80(2025): 14-15. Jan. 21, 1949. 10 Sml  
Production program for Great Britain.
- 40632 HORLACHER, M. Zum neuen jahr 1949. Landw. Wchnbl. 2: 13-14. Jan. 8, 1949. 18 L2338  
Problems of Bavarian agriculture.
- 40633 ISACHSEN, K. On the production program. (In Norwegian.) Norsk Landbr. 15: 80-82. Mar. 4, 1949. 11 N8122
- 40634 JACOBY, E. H. Agrarian unrest in Southeast Asia. New York, Columbia Univ. Press, 1949. 287 p. Ref. 281.18 J15
- 40635 KLEMFUSS, H. C. Prosperous Caribbean larder. Dominican Repub. 73: 1-4. (To be cont.) Jan. 15, 1949. 280.8 D71  
Agriculture.
- 40636 KLINE, A. B. Production and market price policies. Natl. Forum Labor, Agr. & Indus. Ann. Proc. 4: 21-27. 1948. 280.9 N2182
- 40637 KOENIG, N. Our farming must change; European countries are trying hard to increase food production to become self-sufficient. Successful Farming 47(2): 31, 151-152. Feb. 1949. 6 Sul2
- 40638 KOENIG, N. What's ahead for the farmer? A comprehensive analysis of existing conditions and expected changes in the overall agricultural picture—the need for efficiency and planning. Amer. Egg & Poultry Rev. 10(3): 54, 56-58. Mar. 1949. 47.8 Am38
- 40639 LAGAUE, H. Un voyage d'études des ingénieurs agricoles en Catalogne espagnole, Ibérie 1948. Agriculture [Paris] 12: 371-374. Dec. 1948. 14 Ag823
- 40640 LANDIS, J. Die landwirtschaftlichen Grundlagen. In Switzerland. Schweizerische Milchkommission. Die schweizerische Milchwirtschaft, p. 41-104. Thun, 1948. 44 Sw62
- 40641 LOVELAND, A. J. Balancing agricultural production with demand. Natl. Forum Labor, Agr. & Indus. Ann. Proc. 4: 114-118. 1948. 280.9 N2182
- 40642 LUTZ, H. Die land- und forstwirtschaftlichen berufe unter besonderer berücksichtigung der ausbildungsverhältnisse in der sowjetischen besatzungszone Deutschlands. Berlin, Das Neue Berlin Verlagsgesellschaft, 1948. 80 p. (Schriftenreihe Arbeit und Beruf. 3) 275 L97
- 40643 MCCONKEY, O. M. Agriculture in Formosa. Family Herald & Weekly Star 80(4): 7, 10. Jan. 26, 1949. 7 F21
- 40644 MCCONKEY, O. M. Observations on China and other eastern countries. O. A. C. Rev. 61: 254-257. Feb. 1949. 276.8 On8  
Agriculture.
- 40645 MCCOWN, M. Die USA, der fruchtkorb der welt. Gartenbauwirtschaft [Hannover] 1: 19-20. May 29, 1948. 389.8 G19
- 40646 MACDONALD, C. Hill Farming Act: some facts and reflections. Scot. Agr. 28: 117-120. Winter 1948/49. 10 Sco82So  
Provides State aid to rehabilitate hill farms in Great Britain.
- 40647 MARESCALCHI, A. American advice for our agriculture. (In Italian.) Ital. Vinic. ed Agr. 38: 277-279. Dec. 31, 1948. 95.8 It1
- 40648 MARTIN, W. W. Cross-section of Colorado farming seen in Sedgwick [County]. West. Farm Life 51(3): 6, 12. Feb. 1, 1949. 6 R153
- 40649 MAURY, L. La production agricole; la distribution et les prix. Monit. Agr. 2(59): 13. Feb. 27, 1949. 14 M744
- 40650 MAYER. Importance de la technique des industries agricoles dans la lutte contre la sous-alimentation mondiale. (Excerpts.) SPEL; B. Int. d'Inform. et de Doc. 3(10): 12-14. Oct. 1948. 44.8 Sp1
- 40651 MAYNARD, SIR J. Russia in flux. Ed. and abridged by S. Haden Guest, from "Russia in flux" and "The Russian Peasant and Other Studies." New York, Macmillan Co., 1948. 564 p. 277.179 M45  
Includes agriculture and collective farming.
- 40652 MAZEK-FIALLA, K. Landwirtschaft und forschung am Neusiedler see. Landwirtschaft 1948: 305-308. Nov. 25, 1948. 19 L235
- 40653 MEDICI, G. The E. R. P. and the problems of Italian agriculture. Banca Naz. del Lav. Q. Rev. 1: 416-426. Oct. 1948. 280.9 B2282
- 40654 MORALES, J. Rumbos nuevos en la producción tucumana. Chacra 19(220): 66. Feb. 1949. 9 C34
- 40655 NADAUD, F. L'agriculture en Grande-Bretagne. Monit. Agr. 2(59): 5. Feb. 27, 1949. 14 M744
- 40656 NATIONAL INDUSTRIAL CONFERENCE BD. The economic almanac for 1949. 1948. 560 p. 280.8 Ec742  
Contains a chapter on agriculture.
- 40657 NELLMAPIUS, E. H. Past and present trends in agriculture. Primary Prod. [Cape Town] 24(6): 11, 17. Feb. 11, 1949. 281.8 P93
- 40658 NETHERLANDS. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD. Dutch agriculture facts. 1948. 136 p. 33.15 N383D  
Includes statistics.
- 40659 OLIVER, R. T. The Republic of Korea looks ahead. Washington, Korean Pacific Press, 1948. 24 p. 280.183 OL4R  
Agriculture included.
- 40660 OSWALT, J. A. Expanse and resources of Hidalgo County. Tex. Farming & Citric. 25(8): 9. (To be cont.) Feb. 1949. 80 T31
- 40661 PACE, J. V., and SAVILLE, R. J. 1949 expected to be another good year for farmers. Miss. Farm Res. [Miss. Sta.] 11(12): 1, 2, 6. Dec. 1948. 100 M69Mi
- 40662 PACHOLKE, R. G. Western tour essay. Hawkesbury Agr. Col. J. 45: 180-186. Dec. 31, 1948. 276.8 H31  
Agriculture in Australia.
- 40663 PARSONS, E. D. Farming in Yucatan. Farmer [St. Paul], Gen. Ed. 67(4): 22, 23. Feb. 19, 1949. 6 F2211
- 40664 PARVIN, D. W. Efficient agriculture in the Northeast Prairie area. Miss. Farm Res. [Miss. Sta.] 12: 2-6. Jan. 1949. 100 M69Mi
- 40665 PATRUSCHOW, A. Agrarverhältnisse in Deutschland und die agrarreform. Berlin, SWA, 1948. 255 p. 281.175 P442
- 40666 PATTERN of agricultural life in Brazil. (In Portuguese.) Observador Econ. e Financeiro 13(156): 56-64, 87-90. Jan. 1949. 280.8 Ob72
- 40667 POND, G. A. The farm program for 1949. Minn. U. Agr. Ext. Farm Business Notes 312: 1-3. Jan. 31, 1949. 275.29 M663
- 40668 POTVIN, J. B. L'Abitibi agricole. Terre de Chez Nous 21(1A, i. e. 23): 3, 17. Mar. 2, 1949. 7 T27



- 40669 POTVIN, J. B. L'agriculture dans Rouyn-Noranda. *Terre de Chez Nous* 21(17): 10. Jan. 19, 1949. 7 T27
- 40670 PRAGUE. ÚSTAV PRO MAZINÁRODNÍ SPOLUPRÁCI V ZEMĚDELSTVÍ. Zěmědelství soudobého Polska [Agriculture of contemporary Poland]. Praha, 1948. 57 p. (Bibliotéka Mezinárodní Spolupráce v Zěmědelství a Lesnictví. 8) 281.177 P88
- 40671 PRIESTMAN, H. L. E. Five-year plan in Ireland features increased agricultural output. *Foreign Trade* 5: 277-279. Feb. 5, 1949. 286.8 C162
- 40672 PROCHAZKA T., G. La Hilea Amazónica y la agronomía. *Agronomía [Lima]* 13(54): 61-63. 1948. 9.8 Ag83  
Policies and programs.
- 40673 RICHARDS, A. E. The European Recovery program and Canadian agriculture. *Econ. Annal.* 19(1): 5-8. Feb. 1949. 281.8 Ec72
- 40674 ROCHESTER, M. C. The agricultural outlook, South Carolina, 1949. *Clemson Agr. Col. S. C. Ext. C. 322*, 8 p.-folder. Dec. 1948. 275.29 So8E
- 40675 ROMON, H. Productivité flamande. *Nord Agr.* 5(8): 1. Dec. 25, 1948. 14 N75
- 40676 SABINE, G. A. Lincoln's three big acts for farmers. *Successful Farming* 47(2): 26, 120-121. Feb. 1949. 6 Su12
- 40677 SAMPER, A. Diferencias entre la agricultura y la industria. *Asoc. Gen. de Agr. [Guatemala]* B. 200: 1, 4. Feb. 5, 1949. 8 As52
- 40678 SBRANA, M. Agriculture and methane gas. (In Italian.) *Agr. delle Venezie* 2: 444-447. May/June 1948. 16 Ag826
- 40679 SCHWEIZERISCHE BANKGESELLSCHAFT. L'année 1948. Jan. 1949. 83 p. 284.9 Sch92Wf  
Includes agriculture and the agricultural products industries.
- 40680 SCHWEIZERISCHE BANKGESELLSCHAFT. L'Union Sud-Africaine (Union of South Africa). *Schweiz. Bankgesell. [B.]* 1948(1), 31 p. Mar. 1948. 284.9 Sch92  
Includes agriculture.
- 40681 SCROGGS, C. L. Our goals in national farm planning. *South. Agr.* 78; i. e. 79(2): 15, 23. Feb. 1949. 6 So83
- 40682 SKOVGAARD, K. Agriculture in 1948. (In Danish.) *Tidsskr. for Landøkonomi* 1949: 1-46. Jan. 1949. 11 T43
- 40683 TALLARICO, G. The agricultural stasis of Sila. (In Italian.) *Gior. di Agr.* 59: 28. Jan. 23, 1949. 16 It1G
- 40684 TEUTSCH, W. L. Quarter century of planning has helped make farming Oregon's number one income source. *Oreg. Farmer* 72: 109. Feb. 17, 1949. 6 Or32
- 40685 TOCQUEVILLE, R. DE. La reconstruction agricole dans la Manche. *Libération Paysanne* 50(204): 7. Feb. 24, 1949. 14 L61
- 40686 TOLLEY, H. R. Can we use our full productive resources for food? *Food and Agr. Organ. United Nations. Inform. Press. I/R/239*, 13 p. Feb. 19, 1949. 389.9 F735I
- 40687 TONNINI, L. Economic conditions and human settlement in the Republic of San Marino. (In Italian.) *Soc. Geog. Ital. B. (ser. 8)* 1: 284-294. Sept./Dec. 1948. 507 So15B  
Includes agriculture.
- 40688 TRIBE, D. E. Danish farming. *Gt. Brit. Min. Agr. Agriculture* 55: 483-487. Feb. 1949. 10 G79J
- 40689 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR ASIA AND THE FAR EAST. Food and agricultural conditions in Asia and the Far East 1948. *United Nations Econ. and Social Council. [Documents]* E/CN.11/144, 55 p. Nov. 27, 1948. 280.9 Un3653
- 40690 UNITED NATIONS. ECONOMIC AND SOCIAL COUNCIL. ECONOMIC COMMISSION FOR ASIA AND THE FAR EAST. Report of the FAO/ECAFE Joint Working Party on Agricultural Requisites. *United Nations Econ. and Social Council. [Documents]* E/CN.11/135/Add.1, 125 p. Nov. 13, 1948. 280.9 Un3653
- 40691 VON SCHUH, W. Agriculture in Germany. *Natl. Grange Monthly* 47, i. e., 46(3): 6. Mar. 1949. 6 N215  
First article of a series.
- 40692 WADSWORTH, J. M. The Agriculture Bill. *Farmers J.* 29: 190, 192, 194. Feb. 1949. 10 F2234
- 40693 WEST INDIES year book, including also the Bermudas, the Bahamas, British Guiana and British Honduras, 1947-8. London, 1948. 812 p. 254.8 Y3  
Includes brief data on agriculture.
- 40694 WHAT freedoms must be protected for labor, agriculture, and industry to maintain democracy? *Natl. Forum Labor, Agr. & Indus. Ann. Proc.* 4: 90-98. 1948. 280.9 N2182  
Panel discussion, H. M. Busch, leader.
- 40695 YOUNGE, J. Farmers must decide whether or not they want regulation. *Grain & Feed Rev.* 38(7): 18. Mar. 1949. 280.28 G78

## Subsidies

- 40696 BABSON, R. W. Farm subsidies stay. *Com. B.* 63(50): 5, 7. Feb. 25, 1949. 389.8 C736
- 40697 DAINES, P. Food subsidies must remain. *Co-op. News* 4056: 2. Feb. 26, 1949. 280.28 C7897  
Great Britain.
- 40698 HILGENDORF, C. The farmer pays his own subsidies. *Straight Furrow* 8(3): 2. Jan. 15, 1949. 281.8 St8  
New Zealand.
- 40699 PRIESTMAN, H. L. E. Government of Northern Ireland subsidizes production of flax. *Foreign Trade* 5: 296-298. Feb. 5, 1949. 286.8 C162

## COST AND STANDARD OF LIVING

- 40700 MEREDITH PUBLISHING COMPANY. America's top farm families: their families. Des Moines, 1949. 16 p. 252 M54
- 40701 MEREDITH PUBLISHING COMPANY. America's top farm families: their farms. Des Moines, 1948. 16 p. 252 M54Af  
Statistics.
- 40702 NELSON, L. Why don't farmers live better? *Successful Farming* 47(2): 63-65. Feb. 1949. 6 Su12

## FARM MANAGEMENT AND LAND ECONOMICS

- 40703 ABRAMOV, V. MTS—moguchiy rykhag ukreple-niya kolkhozov [Machine tractor stations—a powerful force in strengthening the collective farms]. Moskva, Gos. Izd-vo Polit. Lit-ry, 1948. 46 p. 281.179 Ab8M
- 40704 BARLOW, F. D., JR., and MCCRORY, E. R. Management problems on sweet potato farms, St. Landry and Lafayette Parishes. *La. Agr. Expt. Sta. Mimeog. C.* 90, 81 p. Jan. 1949. 100 L935
- 40705 BELL, E. A. Advantages of a partnership. *Farmer & Stock-Breeder* 63: 449. Feb. 22, 1949. 10 F228
- 40706 BENEDIKTOV, I. A. Sel'skoe khoz'istvo SSSR na novom pod'eme [Agriculture of U. S. S. R. at a new level]. Moskva, Gos. Izd-vo Polit. Lit-ry, 1948. 39 p. 281.179 B432S
- 40707 BIRCH, E. M. The qualification of a quality fieldman. *Natl. Butter & Cheese J.* 40(3): 22-23. Mar. 1949. 286.85 B98Bu
- 40708 BLAIN, M. How self-supporting can one be on a small-holding? *Veld Trust News* 5(4): 26-27. Jan. 1949. 56.8 V54
- 40709 BLOHM, G. Angewandte landwirtschaftliche betriebslehre; anleitung zur betriebswirtschaftlichen einrichtung und führung deutscher bauernhöfe. Stuttgart, Ulmer, 1948. 360 p. 281.175 B62
- 40710 BOGART, W. T. An introductory study of the lease lands of Vermont. *Stanford U. Abs. Diss.* 23: 167-169. 1948. 241.8 St2
- 40711 BOGDANOV, I. M. The Kuban' State Farm. (In Russian.) *Soviet. Agron.* 6(10): 69-75. Oct. 1948. 20 So84
- 40712 BOSMAN, G. J., and MARAIS, J. G. Farming has high requirements. (In Afrikaans.) *Wynboer* 17 (307): 26-27. Dec. 1948. 390.8 W724
- 40713 BROMFIELD, L. Ecology at Malabar. *Land* 7: 515-517. Winter 1948/49. 279.8 L22  
Conservation farming.
- 40714 BRUECK, D. After graduation I'll be farming, here's why. *Iowa Agriculturist* 47(7): 10-11. Feb. 1949. 6 Io9
- 40715 BUONAIUTO, G. Agrarian collectivism in the U. S. S. R. I-III. (In Italian.) *Mezzogiorno Agr.* 5(4): 3; (5): 3; (6): 3. Jan. 23-Feb. 6, 1949. 16 M57



- 40716 BUSCH, W. Landwirtschaft intensiv oder extensiv. *Wirtsch. Ztg.* 4(9): 7. Jan. 29, 1949. 280.8 W742
- 40717 CAMPBELL, W. W. Conservation and commerce. *Land* 7: 606-609. Winter 1948/49. 279.8 L22
- 40718 CAROLIS, V. DE. To produce milk in quantity. (In Italian.) *Rinascita Agr.* 3(5): 1; (7): 1. Jan. 1, Feb. 1, 1948. 281.8 R47  
Methods to be followed in dairy farming.
- 40719 CARPENTER, F. R. How we stockmen see it. *Land* 7: 594-595. Winter 1948/49. 279.8 L22  
Land policy.
- 40720 CARPENTER, F. R. Stockmen and our public lands. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 60-61. Jan. 1, 1949. 6 R153
- 40721 CHAPMAN, P. W. Score your farm business! It can add in cash rewards for management—\$1,000 to \$5,000 extra income. *Prog. Farmer, Miss.-Ark.-La.* Ed. 64(2): 17. Feb. 1949. 6 So81
- 40722 CONKLIN, H. E. Extent of farming by rural people in Chemung and Monroe Counties. *N. Y. Agr. Col. Farm Econ.* 166: 4277-4279. Jan. 1949. 280.8 C812
- 40723 CONSTANTINO, M. Pointers on increasing a farmer's income. *Agr.-Com.-Indus. Life* 11(1/2): 12. Jan./Feb. 1949. 25 Ag8  
Farm management.
- 40724 COOPER, F. E. Some aspects of our ambitious federal land acquisition program. *Amer. Cattle Prod.* 30(10): 21-24. Mar. 1949. 49 P94
- 40725 DALRYMPLE, C. New ways to cut dairy costs. *Dairymen's League News* 33(5): 10-11, 22. Mar. 8, 1949. 44.8 D1432  
Management.
- 40726 DEMBINSKI, J. Landwirtschaftliche betriebslehre. *Landarbeiter-Archiv* 3: 381-383. Dec. 1948. 283.8 L23
- 40727 DEVOTO, B. For public control of public lands. *Land* 7: 593-594. Winter 1948/49. 279.8 L22
- 40728 DOBBIN, H. Successful farm partnerships. *Hoard's Dairyman* 94: 30. Jan. 10, 1949. 44.8 H65
- 40729 ELLIS, F. E. Manitoulin [Canada] farms and farmers. *Family Herald & Weekly Star* 80(7): 3, 19. Feb. 16, 1949. 7 F21
- 40730 ENGELHARD, J. Techniques industrielles et techniques agricoles. *Colon Franç. de Tunisie* 59(2085): 1. Feb. 5, 1949. 24 C712
- 40731 ENIUKOV, A. V. Practices in the complex method of introducing proper crop rotations, land utilization and irrigation. (In Russian.) *Sad i Ogorod* 1948 (7): 53-56. July 1948. 87 Sal  
Collective farm management.
- 40732 FRONDA SISON, O. The career for women in agriculture. *Agr.-Com.-Indus. Life* 10(12): 9, 38. Dec. 1948. 25 Ag8
- 40733 GIALLO, R. DEL. The technician and the farm. (In Italian.) *Terra [Firenze]* 60(2): 1-2. Jan. 9, 1949. 16 T274
- 40734 GOMES JUNIOR, F. S. Installation plan for a dairy farm to produce type B milk. (In Portuguese.) *Granja [Porto Alegre]* 4(36/37): 23-26. Sept./Oct. 1948. 9.2 G76
- 40735 GOSSELIN, A., and FORTIN, D. Better farm management practices through demonstration. *Econ. Annal.* 19(1): 12-17. Feb. 1949. 281.8 Ec72
- 40736 GUEDES, M. Extensive and intensive crops. (In Portuguese.) *Vida Agr. [Lisboa]* 10(63): 1-2. Jan./Feb. 1948. 15.5 V66
- 40737 HAGE, K. Gedanken zur wirtschaftsberatung. *Neue Mitt. f. die Landw.* 3: 368. Nov. 5, 1948. 18 N39
- 40738 HARRAP, M. W. A system for 100 acres. *Farmer & Stock-Breeder* 63: 395. Feb. 15, 1949. 10 F228
- 40739 HARTNACKE, T. Die technik muss helfen! *Neue Mitt. f. die Landw.* 3: 365-366. Nov. 5, 1948. 18 N39
- 40740 HAWAII. COMMISSIONER OF PUBLIC LANDS AND SURVEYOR. Report 1947/48. 1948. 111 p. 252.20 P96R
- 40741 HEIM, B. Betriebswirtschaftliche ueberlegungen zum anbau 1949. *Württemb. Wchnbl. f. Landw.* 116: 77-79. Feb. 12, 1949. 18 W96
- 40742 HIMBEECK, C. VAN. La ferme de l'avenir. *III. Rev. de l'Agr.* 1: 917-920. Nov./Dec. 1948. 13 R322
- 40743 HOPE, C. What land policy for America? *Land* 7: 591-592. Winter 1948/49. 279.8 L22
- 40744 HUFFMAN, R. E., and MYRICK, D. C. Farm organization and production requirements in selected irrigated areas. *Mont. Agr. Expt. Sta. B.* 453, 36 p. Oct. 1948. 100 M76
- 40745 KONDRATIUK, N. D. Organizatsiia ptifsevodstva v sovkhovakh [Organization of poultry raising on state farms]. *Moskva, Sel'khozgiz*, 1948. 279 p. 281.347 K83
- 40746 LANG, F. Wie steht es mit den bayerischen staatsgütern? *Landw. Wchnbl.* 2: 15. Jan. 8, 1949. 18 L2338  
Germany.
- 40747 LICINI, R. L. The apportioning of livestock profits in share farming. (In Italian.) *Corriere Agr.* 4(6): 1-2. Oct. 15, 1948. 16 C813
- 40748 LOBANOV, P. P. For the further advancement of socialist agriculture on the basis of the teachings of Timirfazev, Michurin, Vil'iams and Lysenko. (In Russian.) *Sovet. Agron.* 6(10): 9-15. Oct. 1948. 20 So84
- 40749 MANITOBA. DEPT. OF MINES AND NATURAL RESOURCES. Annual report, 1947/48. 1948. 102 p. 253.2 M31  
Includes reports of Lands and Forestry Branches.
- 40750 MITCHELL, M. W. An agricultural handbook for the field staff. *Natl. Cannery Assoc. Inform. Let.* 1219: 53-55. Jan. 26, 1949. 389.9 N214In
- 40751 MONTELL, E. W. Importance of the field staff. *Natl. Cannery Assoc. Inform. Let.* 1219: 56. Jan. 26, 1949. 389.9 N214In
- 40752 MOORE, H. I. Good husbandry. *London, Allen & Unwin*, 1948. 32 M784G
- 40753 NAZARTSEV, N. G. The agronomist is the organizer of collective farm production. (In Russian.) *Sovet. Agron.* 6(10): 58-68. Oct. 1948. 20 So84
- 40754 OPFINGER, F. Ländlich-hauswirtschaftliche beratung in der gegenwart. *Nachr. f. Beratung u. Ausbildung in der Landw.* 1: 16-17. Oct. 1948. 18 N11  
Germany.
- 40755 ORTZEN, L. Young farmers in France. *Countryman [Burford]* 38: 204-208. Winter 1948. 281.28 C832
- 40756 PAGANI, L. Considerations on legislative provisions to favor the development of small scale farming. (In Italian.) *Agr. delle Venezie* 2: 784-799. Sept./Oct. 1948. 16 Ag826
- 40757 PALMER, R. W. Small farm homes; problems of part-time suburban farmers with full-time city jobs. *Calif. Agr. [Calif. Sta.]* 3: 3, 16. Jan. 1949. 100 C12Cag
- 40758 PAVLOV, M., ed. Za vysokuiu dokhodnost' kolkhoznogo khoziaistva [For a highly profitable collective farm economy]. *Kurks, "Kurskaja Pravda,"* 1948. 111 p. (Bibliotekha Predsedatel'ia Kolkhoza, 2) 281.179 P283
- 40759 PAWSON, H. C. Tradition in farming. *Manx J. Agr. (n. s.)* 3(3): 27-30. Jan. 1949. 10 M312
- 40760 PEARLMAN, M. Adventure in the sun, an informal account of the communal settlements of Palestine. *London, Gollancz*, 1948. 177 p. 282.2 P31
- 40761 PIACCO, R. Can our farms still be directed empirically? (In Italian.) *Risicoltura* 37: 1-4. Jan. 1949. 59.8 G43
- 40762 POSPELOV, N. A. Osnovnoi zakon kolkhoznoi zhizni [Fundamental law of collective farm life]. *Stavropol', Kraevoe Knizhnoe Izd-vo*, 1948. 49 p. (Bibliotekha Kolkhoznika. Seria Massovo-Politicheskoi Literatura) 281.179 P842
- 40763 QUATE, G. S. An experiment in low-cost food production. *Foreign Agr.* 13: 42-43. Feb. 1949. 1.9 Ec7For  
By the United Fruit Co., at its Tiquisate plantation on the Pacific slope of Guatemala.
- 40764 RATCHFORD, C. B., and CLARK, C. E. Father-son business arrangements. *N. C. Agr. Col. Ext. C.* 330, 20 p. Nov. 1948. 275.29 N811
- 40765 ROEMER, T., and SCHEFFER, F. Grundriss der ackerbaulehre. *Berlin, Parey*, 1948. 226 p. 33.27 R66
- 40766 SCHLIER, T. Grundlage der wirtschaftserleichterung für jeden betrieb. *Landw. Wchnbl.* 138: 448. (To be cont.) Dec. 18, 1948. 18 L2338



40767 SCHOLZ, A. Hackfruchternte und künftige anbauplanung. *Neue Mitt. f. die Landw.* 3: 446-447. Dec. 5, 1948. 18 N39

40768 SORBI, U. Anxieties of the small-scale farmer. (In Italian.) *Terra [Firenze]* 59(49): 1, 3. Dec. 5, 1948. 16 T274  
Italy.

40769 SOUTH CAROLINA AGRONOMY COMMITTEE. Conservation farming in Marion County, South Carolina. *Clemson Agr. Col. S. C. Ext. C.* 317, 23 p. June 1948. 275.29 So8E

40770 TEEL, R. Do you have the personal qualities of a good farmer? *Ill. Agr.* 53(4): 13, 38. Feb. 1949. 6 IL6

40771 TSVETKOV, V. To improve the work of the motor transport. (In Russian.) *Mashinno-Traktorn. Stanfs.* 7(10): 13-14. Oct. 1947. 58.8 M11  
At machine-tractor stations.

40772 WACHOWSKI, M. Science and practice in agriculture. (In Polish.) *Życie Nauki* 6: 180-188, 312. 1948. 475 Z9

English summary.

40773 WAGGERSHAUSER, O., ed. *Landwirtschaftliche richtzahlen und hineweise (faustzahlen) für denberater und praktischen landwirt.* Stuttgart, Ulmer, 1948. 190 p. 265 W12

40774 WILKINSON, G. Remaking a farm in a day. *Irrig. Farmer* 6(8): 3, 16. Dec. 2, 1948. 55.8 Ir78

40775 WYLLIE, J. Farming in the south eastern counties. *Agr. Prog.* 23: 22-25. 1948. 10 Ag88  
England.

#### Bookkeeping and Records

40776 CHESSELLS, K. Can you say how much your crops cost you to grow? *Smallholder* 80(2024): 7. Jan. 14, 1949. 10 Sml

40777 DUNBAR, J. O. Indiana farm account book revised. *Purdue Agr.* 40(4): 18-19. Jan. 1949. 6 P97

40778 FESSARD, G. La comptabilité agricole. *Paysan d'Ille-et-Vilaine* 4(43): 3. Feb. 1, 1949. 14 P293

40779 FONTANELLA, G. The accounting problem in Danish farming. (In Italian.) *Voce dei Campi, dei Mercati e delle Off.* 37(51): 1. Dec. 8, 1948. 16 V85

40780 SCHOEFF, R. W. Farm records pay. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1949: 5-6. Jan. 26, 1949. 275.29 In2Em

#### Costs and Returns

40781 AUVIL, G. Growing costs—today and yesterday. *Wash. State Hort. Assoc. Proc.* 44: 142-145. 1948. 81 W273  
Apples.

40782 BAPTIST, G., and VERKINDEREN, A. Investigation about the economic situation of farms in Belgium 1947-1948. (In Flemish.) *Gent. Landbouwhogeschool. Meded.* 13: 347-402. Dec. 1948. 105.1 G344  
French and English summaries.

40783 BRANDOW, G. E. Statement on cost of producing milk. *Dairymen's Price Rptr.* 31(2): 3-5, 7. Feb. 1949. 280.28 D14

40784 BROCKETT, J. E. Good stock, good management should net \$1.21 per bird. *N. J. Farm & Gard.* 20(3): 48, 50. Mar. 1949. 6 G162

40785 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Alameda County poultry management study, 1948; seventh annual report, by V. D. Miller and A. D. Reed. Berkeley? 1948? 9 p. 275.29 C12En  
Chiefly costs and returns.

40786 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Alfalfa seed and hay production study, Hemet Valley, Riverside County, 1947. Berkeley? 1948? 6 p. 275.29 C12En  
Chiefly costs and returns.

40787 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. First annual cost of production study on boysenberries, Stanislaus County, California, 1947. Berkeley? 1948? 5 p. 275.29 C12En

40788 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1948 desert grapefruit management study, Imperial County, by W. Sullivan and G. L. Winright. Berkeley? 1948? 8 p. 275.29 C12En  
Chiefly costs and returns.

40789 CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 navel orange management study, Los Angeles County, by B. B. Burlingame. Berkeley? 1948? 12 p. 275.29 C12En  
Chiefly costs and returns.

40790 CANONGE, H. Les mystères des prix! Comment le kilo d'oranges passe-t-il de 15 fr. (à la production) à 85 fr. (au détail)? *Libération Paysanne* 5(197): 5. Jan. 6, 1949. 14 L61  
France.

40791 CHESTER, J. A., HOOPER, J. H., and WYLLIE, J. Financial results for 1947 and for the five years 1943 to 1947. *Wye Col. Dept. Econ. Farm Mangt. Survey.* Rpt. 2, 21 p. 1948? 281.9 W97

40792 COMBREDT, G. Le prix de revient des produits agricoles. *Monit. Agr.* 2(53): 1. Jan. 16, 1949. 14 M744

40793 COST OF production of bananas on the Island of Madeira. (In Portuguese.) *Portugal, Junta Nac. das Frutas. B.* 8: 402-418. 1948. 286.3939 P83  
Summary in English and French.

40794 DINSDALE, D. H., and WINTER, T. Farm costs of milk production on North Country farms, 1947-48. *King's Col. Farm Econ. Br. Rpt. M.28*, 12 p. Jan. 1949. 281.9 K61

40795 DINSDALE, D. H., and WINTER, T. Fodder crop costs on North Country farms, 1947. *King's Col. Farm Econ. Br. Rpt. G.28*, 8 p. Jan. 1949. 281.9 K61

40796 DOSSIN, C. O. Lower [poultry] costs mean higher profits. *N. J. Farm & Gard.* 20(2): 44-45, 56-57. Feb. 1949. 6 G162

40797 DUCK, R. W. It pays to feed the cows well. *Rural New-Yorker* 99: 94, 102. Feb. 5, 1949. 6 R88  
Includes milk costs and dairy rations.

40798 EMBLETON, H. Profit calculator for eggs. *Ariz. Agr. Expt. Sta. B.* 219, 12 p. Nov. 1948. 100 Ar4

40799 FULLER, V. Farmer's share of food dollar. *Calif. Agr. [Calif. Sta.]* 3: 2. Jan. 1949. 100 C12Cag

40800 GRATON, A. L'aviculture peut-elle être plus rémunératrice? *B. des Agr.* 45(1): 16-17, 52. Feb. 1949. 7 B872

40801 GUSLER, G. Poultry producers are riding high; feed ratios more favorable than a year ago. *Amer. Poultry J.* 80(2): 62-63. Feb. 1949. 47.8 Am32  
Costs and returns.

40802 HURD, A. Cutting harvesting costs. *Country Life [London]* 104: 732-733. Oct. 8, 1948. 80 C83  
Grain.

40803 HUTCHESON, T. B. Cut production costs to maintain farm profits. *Prog. Farmer, Car.-Va. Ed.* 63(11): 17, 119. Nov. 1948. 6 P945

40804 JONES, C. W., and SAVILLE, R. J. Hog enterprise pays \$1.28 per hour of labor at Pilot Farm. *Miss. Farm Res. [Miss. Sta.]* 11(12): 6. Dec. 1948. 100 M69Mi

40805 KNIGGE, A. FREIHERR VON. Unrentabler gemüseanbau? *Kurzbriefe f. Ernähr. u. Landw.* 10, A IV 3, 4 p. Oct. 1948. 281.8 K96

40806 LI, Y. F. On the economics of agricultural production. (In Chinese.) *Fukien Agr. J.* 9: 181-194. Ref. June 1948. 22.5 F95

40807 LLORENS, M. A. Una revolución en la economía ganadera; la inseminación artificial. *Rev. de Econ. Argentina* 47: 285-288. Sept. 1948. 280.8 R325  
Includes insemination costs and cost of beef production.

40808 MARZANI, A. The cows that make us spend the most are those which are going to cost the least. (In Italian.) *Allevatore* 4(48): 3. Nov. 28, 1948. 49 AL55

40809 MARZANI, A. Zootechnical considerations: Is it really a sport? (In Italian.) *Allevatore* 4(46): 3. Nov. 14, 1948. 49 AL55  
Costs and returns in the livestock business.

40810 MILLER, M. E., and WOODIN, M. D. Costs and returns from storing sweet potatoes on the farm. *La. Rur. Econ.* 11(1): 2-3, 7. Feb. 1949. 281.8 L93

40811 MÜNZINGER, A. Die erzeugungskosten der württembergischen landwirtschaft. *Ludwigsburg, Ulmer*, 1948. 146 p. 281.175 M92

40812 MURPHY, R. G. Costs in harvesting grass silage. *N. Y. Agr. Col. Farm Econ.* 166: 4281-4282. Jan. 1949. 280.8 C812



40813 NEW YORK STATE COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. Average enterprise costs and returns from farm cost accounts 50 farms, 1947. N. Y. Agr. Col. A. E. 680, 33 p. Dec. 1948. 281.9 C81

40814 NEW YORK STATE COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. Average enterprise costs and returns from farm cost accounts 52 farms, 1945. N. Y. Agr. Col. A. E. 678, 33 p. Dec. 1948. 281.9 C81

40815 NEW YORK STATE COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. Individual factors and annual averages from farm cost accounts, 50 farms, 1947. N. Y. Agr. Col. A. E. 679, 30 p. Dec. 1948. 281.9 C81

40816 NORTH, M. O. Commercial broiler production. Here are some figures that affect broiler profits. Amer. Poultry J. 80(4): 6, 26-27. Apr. 1949. 47.8 Am32

40817 PASSERINI, O. Economic equilibrium between farmer's profit and the labor market in sharefarming. (In Italian.) Agr. delle Venezie 2: 777-783. Sept./Oct. 1948. 16 Ag826

40818 PILLAI, I. A. C. The economic price of paddy. Madras Agr. J. 35: 369-373. Dec. 1948. 22 M262  
Costs and returns.

40819 PLEYER, F. Auch die Schweinehaltung muss sich lohnen! Landw. Wchnbl. 138: 462. Dec. 25, 1948. 18 L2338

40820 ROBERTS, A. What is my business worth? Poultry Tribune 55(3): 13, 24, 26-28. Mar. 1949. 47.8 P8642

How to figure the value of a business.

40821 SAVAGE, Z. Sixteen years of costs and returns. Citrus Indus. 29(11): 7-8, 18. Nov. 1948. 80 C49

Florida.

40822 SCHWEIZERISCHES BAUERNSEKRETARIAT. Rentabilität in der schweizerischen landwirtschaft im erntejahr 1946/1947. Landw. Jahrb. der Schweiz 62: 725-785. 1948. 17 L23

Text in German and French.

40823 SHUMAN, C. B. High costs, falling prices may bring on disaster. Ill. Agr. Assoc. Rec. 27: 16-17, 32-33, 42-43. Jan. 1949. 6 IL62

40824 TERNUS, J. W. Poultry farm is not for marginal producer. Nulaid News 26(11): 10-11. Mar. 1949. 47.8 N917

Interview with J. E. Dougherty.

40825 TREMBLAY, R. H. Cost of producing milk in Vermont, 1945-46. Vt. Agr. Expt. Sta. B. 549, 15 p. Jan. 1949. 100 V59

#### Land Settlement and Colonization

40826 ALIVIA, G. Man and land. 2. (In Italian.) Sardegna Agr. 27(1/2): 3. Jan. 6/13, 1949. 16 Sa7  
Land settlement in Sardinia.

40827 BOWMAN, R. G. Prospects for settlement in northeastern New Guinea. Iowa U. Studies in Nat. Hist. 19(1), 126 p. 1948. 500 Io9

40828 DANS, J. P. The Bureau of Lands and the "Hugpong" [United Filipino Farmers Organisation]. Agr.-Com.-Indus. Life 10(12): 17, 27. Dec. 1948. 25 Ag8

Land settlement.

40829 HERRMANN, L. Future of the national funds; role of Keren Hayesod and J. N. F.; Nation and State. Israel & Middle East 1(1/2): 41-42. Oct./Nov. 1948. 286.8 P172

40830 LUZ FILHO, F. Colonization and cooperation. (In Portuguese.) DEACOP, Inform. Coop. 2(7): 21-23. Nov. 1948. 280.28 D34

40831 MARRONI, U. Considerations on the work yet to be done by the Society for the Colonization of Libya. (In Italian.) Riv. di Agr. Subtrop. e Trop. 41: 1-13. Jan./Mar. 1947. 26 Ag82

40832 NEW ZEALAND. DEPT. OF LANDS AND SURVEY. Land for Settlements Act, 1925 (report on the), 1947/48. 1948. 1 p. 282.29 N48

40833 PFEIFFER, C. Das ländliche siedlungsproblem. Oberösterr. Landwirtschaftsztg. 19(36): 1. Sept. 3, 1947. 19 Ob23

40834 STEERS, MRS. J. A. The middle people: re-settlement in Czechoslovakia. Geog. J. 112: 28-42. Jan. 1949. 472 G29

#### Land Tenure

40835 ABEELE, F. V. Le projet de loi belge sur le remembrement. Rev. de l'Agr. 1: 871-889. Nov./Dec. 1948. 13 R322

40836 ADAMS, P. DE O. Suggestions for a study of an agrarian reform. II. (In Portuguese.) Soc. Rural Bras. Rev. 29: 42-48. Jan. 1949. 9.2 B733

40837 ALIPRANDI, L. Direct cultivators and the Segni law. (In Italian.) Voce dei Campi 4(4): 1. Feb. 10, 1949. 16 V852  
Share farming contracts.

40838 ALIPRANDI, L. More on the Segni share farming project. (In Italian.) Voce dei Campi 4(3): 1. Jan. 31, 1949. 16 V852  
Contracts.

40839 ALLAN, W., and others. Land holding and land usage among the Plateau Tonga of Mazabuka district, a reconnaissance survey, 1945. Cape Town, Oxford U. Press, 1948. 192 p. (Rhodes-Livingstone Inst. Rhodes-Livingstone Papers, 14) 282.19 AL5  
M. Gluckman, D. U. Peters, C. G. Trapnell, J. H. M. McNaughton, and D. W. Conroy, joint authors.

40840 ANDALÒ, G. Application of the bill on contracts: the reform, profits, and taxes. (In Italian.) Gior. di Agr. 59: 25-26. Jan. 23, 1949. 16 It1G  
Italy.

40841 BECKERICH, A. Le nouveau mode de détermination du prix des fermages. Rustica 22: 134-135. Feb. 13, 1949. 14 R92

40842 BENASSI, L. Forest and cadastral parceling. (In Italian.) Ital. Forest. e Mont. 3: 379-380. Nov./Dec. 1948. 99.8 It12

40843 BERESFORD, M. W. What is ridge-and-furrow? Country Life [London] 105: 472-474. Mar. 4, 1949. 80 C83  
Evidences of the pre-enclosure field system.

40844 BOLLA, G. Protection and development of communal property in mountain regions in the framework of the Italian Constitution. (In Italian.) Ital. Forest. e Mont. 3: 323-339. Nov./Dec. 1948. 99.8 It12

40845 BRATTON, C. A. Farm tenancy in New York State. N. Y. Agr. Col. Farm Econ. 166: 4286-4288. Jan. 1949. 280.8 C812

40846 CALAN, L. DE. Le bien de famille insaisissable. Agr. Prat. 113: 10-12. Jan. 1949. 14 J82  
France.

40847 CARPENTIERI, F. Apropos of the agrarian reform. (In Italian.) Coltivatore e Gior. Vinic. Ital. 95: 16-17. Jan. 31, 1949. 16 C72

40848 CERRILLO QUILES, F. Preferencia entre retrayentes, según la ley de arrendamientos rústicos. Agricultura [Madrid] 17: 572-573. Dec. 1948. 15 Ag84

40849 COHEN, J. B. Japan's economy under occupation. Foreign Policy Rpts. 24: 214-223. Feb. 1, 1949. 280.9 F76R  
Includes land reform and agriculture.

40850 COLEMAN, B. Right to crops as between landlord and tenant and vendor and purchaser of farm lands. Calif. Wool Grower 25(6): 6. Feb. 8, 1949. 45.8 C12

40851 DALMASSO, G. The problem of the day. (In Italian.) Coltivatore e Gior. Vinic. Ital. 95: 13-15. Jan. 31, 1949. 16 C72  
The share farming leases.

40852 DEKARA. Bodenreform—kein revolutionärer schutt! Siedler 3(12): 1. Dec. 1948. 18 Si1  
Germany.

40853 DÉLIVRAN, J. Le prix des fermages. Monit. Agr. 2(53): 2. Jan. 16, 1949. 14 M744

40854 DENIS, B. L'exercice du droit de reprise du propriétaire devant la cour de cassation. Acclimatation 76: 35. Feb. 12, 1949. 14 Ac2  
France.

40855 DISCUSSIONS on the agrarian reform. (In Italian.) Mezzogiorno Agr. 5(4): 1. Jan. 23, 1949. 16 M57  
Remarks by A. Pagani, Giovannini, and G. Medici.

40856 EINAUDI, L. "Just cause" in share farming. (In Italian.) Agr. Bresciana 1(52): 1. Dec. 29, 1948. 16 Ag89  
Leases.

40857 EVANS, J. C. Farm tenure relationships. Purdue Agr. 40(4): 9, 14. Jan. 1949. 6 P97



- 40858 FALQUE, X. La loi du 31 décembre 1948 ou le règlement des fermages en 1949. Réveil Agr. 58: 58. Feb. 15, 1949. 14 R322  
France.
- 40859 FÉDÉRATION NATIONALE DE LA PROPRIÉTÉ AGRICOLE. Fermages, 1948. Paris, 1948. 37 p. 282.174 F31F
- 40860 FILENI, E. On agrarian contracts. II. (In Italian.) Mezzogiorno Agr. 5(3): 1. Jan. 16, 1949. 16 M57  
Share farming.
- 40861 FILENI, E. On agricultural leases [Italy]. (In Italian.) Mezzogiorno Agr. 5(6): 1. Feb. 6, 1949. 16 M57
- 40862 FILENI, E. Share farming agreements in the Segni program. I. (In Italian.) Mezzogiorno Agr. 5(2): 1. Jan. 9, 1949. 16 M57
- 40863 FITCH, L. D. Guaranteeing a title. Surveying & Mapping 8: 194-199. Oct./Dec. 1948. 325.8 Am3
- 40864 GAETANI, L. Direct cultivators and the problem of consolidation of holdings [Italy]. (In Italian.) Coltivatore 5(4): 1. Jan. 23, 1949. 16 C722
- 40865 GUILBAUD, J. La nouvelle loi sur le prix des fermages. Terre 224: 3. Jan. 27/Feb. 2, 1949. 281.8 T27  
France.
- 40866 HANNA, C. M. Group ownership of the land. Town & Country Church 51: 3-4. Mar. 1949. 281.28 T66
- 40867 HEROLD, G. Fragen des nachbarrechtes. Kurzbrieft. Ernährung u. Landw. 11: E II 3, 2 p. (To be cont.) Nov. 1948. 281.8 K96  
Germany.
- 40868 HIGGINS, B. Should you make a will? Mass. U. Agr. Ext. Spec. C. 155, 12 p. Oct. 1948. 275.29 M381Sc
- 40869 HOPF, W. Wissenswertes aus dem nachbarrecht. Allgäuer Bauernbl. 16: 321-322. Dec. 10, 1948. 18 AL53
- 40870 HRABALL, A. Währungssicherungsklauseln bei kauf- und pachtverträgen. Kärntner Bauer 98: 355-356. Nov. 1, 1948. 19 K14
- 40871 LADEJINSKY, W. I. The balance sheet. Washington, 1948. 17 p. 280.183 L12  
Touches upon the land reform in Japan.
- 40872 LADEJINSKY, W. I. Land reform progress in Japan. Foreign Agr. 13: 38-41. Feb. 1949. 1.9 Ec7For
- 40873 LAVIGNE, L. La valeur locative normale des baux à ferme. Jura Agr. (n. s.) 20: 1. Feb. 15, 1949. 14 J97
- 40874 LEQUIEN, H. La nouvelle loi sur les loyers. Paysan Franç. 24(373): 10-11. (Cont.) Jan. 1949. 14 P29
- 40875 LIEBSCHER, H. Nochmals: "das bergbauern-tum in zahlen." Wer gilt als bergbauer? Kärntner Bauer 99: 16. Jan. 15, 1949. 19 K14
- 40876 LUCAS, M. Maintenir l'exploitation familiale; tel est le but du nouvel article 45 bis du statut du fermage et du métayage. Monde Paysan 4(124): 1, 4. Dec. 15, 1948/Jan. 1, 1949. 14 M742  
France.
- 40877 MARANI, C. The proprietor with rented properties. (In Italian.) Gior. di Agr. 59: 29. Jan. 23, 1949. 16 It1G
- 40878 MARCHIORI, A. Share farming "a Zappa" forbidden; expected practical effects. (In Italian.) Inform. Agr. 5: 19-20. Feb. 1, 1949. 281.8 In32  
A type of lease under which the land is turned over to the tenant after plowing and planting.
- 40879 MARESCALCHI, A. Sharefarming and agricultural contracts. (In Italian.) Ital. Vinic. ed Agr. 38: 265-267. Dec. 15, 1948. 95.8 It1
- 40880 MEDICI, G. La distribuzione della proprietà fondiaria in Italia; relazione generale [Distribution of landed property in Italy; general report]. Roma, Ist. Naz. di Econ. Agr., 1948. 2 v. in 1. 282.176 M46D
- 40881 MELÉNDEZ, N. Tópicos sobre el problema agrario: la propiedad de la tierra como régimen de civilización. Agr. Mex. 64(8/9): 18-19, 21. Aug./Sept. 1948. 8 Ag8
- 40882 MENNA, F. Agrarian reform; fair rent. (In Italian.) Agr. del Mezzogiorno 4(15): 1. Dec. 15, 1948. 16 Ag8254
- 40883 MICHELIS, A. La nouvelle loi sur les fermages et ses adversaires. Monit. Agr. 2(53): 3. Jan. 16, 1949. 14 M744  
France.
- 40884 MONTAGNE, R. Le statut des baux ruraux et les preneurs de nationalité étrangère. Prog. Agr. et Vitic. 1949: 31-33. (Concl.) Jan. 16/23, 1949. 14 P94  
France.
- 40885 MULLER, C. Pas de progrès en agriculture sans suppression du parcellement. Bas-Rhin. Agr. 4: 67. Feb. 5, 1949. 14 B29
- 40886 NEUMAYR, L. Das neue pächterschutzgesetz. Landwirtschaft 1948: 343-344. Dec. 20, 1948. 19 L235  
Austria.
- 40887 NOLLEAU, J. Le statut du fermage: le droit de reprise du propriétaire. Forêt Franç. 129: 1. Oct. 1948. 99.8 F7682
- 40888 PAGANI, F. Foreseeable results of the agrarian reform [Italy]. (In Italian.) Rinascita Agr. 3(18): 1. July 15, 1948. 281.8 R47
- 40889 PAPASOGLI, G. Sharefarming the backbone of profitable agriculture. (In Italian.) Terra [Firenze] 59(52): 3. Dec. 26, 1948. 16 T274
- 40890 PAPASOGLI, G. The story of sharefarming contracts. (In Italian.) Terra [Firenze] 59(49): 3. Dec. 5, 1948. 16 T274
- 40891 PATERNO, L. The right of property. (In Italian.) Agr. del Mezzogiorno 4(15): 1. Dec. 15, 1948. 16 Ag8254
- 40892 PELKA, F. Wichtige aenderungen im pacht-schutz. Württemb. Wchnbl. f. Landw. 115: 394. Dec. 18, 1948. 18 W96
- 40893 PELLIZZARI, C. Agrarian reform should begin in the mountains. (In Italian.) Agr. Bresciana 2(4): 1. Jan. 26, 1949. 16 Ag89
- 40894 PELLIZZARI, C. New forms of agricultural lease. (In Italian.) Agr. Bresciana 11(6): 1. Feb. 9, 1949. 16 Ag89
- 40895 POLIANSKAYA, G. N. Semeino-imushche-stvennye razdely i vydely v kolkhoznom dvore [Family property allotments and shares on the farmstead of the kolkhoz]. Moskva, Ministerstvo Ūstifitsii SSSR, 1948. 59 p. (Bibliot. Narodnogo Sud'i i Narodnogo Zasedatel'ia) 281.179 P753
- 40896 RAMASWAMI REDDIYAR, O. P. Agrarian reforms and parity economy. Madras, Economic Adviser to the Government of Madras, 1948. 38 p. 281.182 R142
- 40897 ROMERO E., E. Notas sobre el problema agrario. Rev. de Econ. 12: 50-51. Feb. 15, 1949. 280.8 R3293  
Mexico.
- 40898 RUFFINI, C. Agrarian reform or reclamation and agricultural betterment? (In Italian.) Chron. Econ. 50/51: 12-13. Feb. 5, 1949. 280.8 C882  
Italy.
- 40899 SAJA, F. Economic content of the agricultural contract reform. (In Italian.) Chron. Econ. 50/51: 14-16. Feb. 5, 1949. 280.8 C882  
Italian share farming leases.
- 40900 SCAMMELL, W. S. Practice points in connection with Part II and Section 31 of the Agriculture Act, 1947. Roy. Inst. Chartered Surveyors. J. 28: 392-399. Feb. 1949. 282.9 C38J  
Tenancy.
- 40901 SCHOFIELD, L. T. Massachusetts land court. Surveying & Mapping 8: 180-186. Oct./Dec. 1948. 325.8 Am3  
Land registration.
- 40902 SCHUMY, V. Stand der verhandlungen über die bodenreform. Wien. Bauernbündler 2(2): 2-3. Jan. 22, 1949. 19 W632  
Also in Allg. Bauern-Ztg. 4(4): 1-2. Jan. 22, 1949. 281.8 AL5
- 40903 SCHUMY, V. Wir und die bodenreform. Österr. Bauernbündler 5(4): 1. Jan. 22, 1949. 19 Os7  
Also in Burgenländ. Bauernbündler 2(2): 1-2. Jan. 25, 1949. 19 B91
- 40904 SMITH, E. J. The State is their landlord. Farmers Weekly [London] 30(4): 41-45, 47, 49, 51, 53, 55, 57. Jan. 28, 1949. 10 F2226  
An estate in North Wales taken over by the State under the terms of the Agricultural Act, 1947.
- 40905 STEELE, C. F. Indian lands to go under plow. Family Herald & Weekly Star 80(8): 7, 17. Feb. 23, 1949. 7 F21  
New land lease policy in Alberta.



40906 STEJSKAL. Statistiques périodiques des exploitations agricoles en Tchécoslovaquie; nombre et étendue des exploitations en Bohême et en Moravie et Silésie. (In Czech.) Czechoslovakia. Státní Úřad Statis. Statis. Zpravodaj 11: 412-416. Dec. 1948. 266.8 C99S French summary.

40907 TANNER, N. E. Rights of surface owners. (Excerpts.) Canad. Cattlemen 11: 211. Mar. 1949. 49 C16

40908 TERRA, A. Arrendamientos rurales. Uruguay. Min. de Ganad. y Agr. B. Inform. 255: 3. Jan. 27, 1949. 9.9 G15B

40909 TORRES FILHO, A. The agrarian question in Brazil. (In Portuguese.) Lavoura 52: 6-9. Sept./Oct. 1948. 9.2 L39  
Land policy.

40910 VIERI, F. Presents. (In Italian.) Terra [Firenze] 59(49): 1. Dec. 5, 1948. 16 T274  
Share farming contract reform in Italy.

40911 VIERI, F. Recovering our senses? (In Italian.) Terra [Firenze] 59(52): 1. Dec. 26, 1948. 16 T274  
Sharefarming contract reform in Italy.

40912 VIGGIANI, G. Apropos of the agrarian reform [Italy]. (In Italian.) Mezzogiorno Agr. 5(7): 1. Feb. 13, 1949. 16 M57

40913 WAY, G. S. An acre of land to call their own. Farmer's Mag. 46(2): 11, 52. Feb. 1949. 7 C165  
Veterans as part-time farmers in Canada.

40914 WEILL RAYNAL, E. La répartition des terres en France; légende et réalité. France. Inst. Natl. de la Statis. et des Études Econ. Études et Conjoncture. Union Franç. 3(9/12): 61-76. 1948. 280.8 F84

40915 WICHA, R. Bodenreform in Schweden. Wiener Bauernbündler 2(4): 5. Feb. 19, 1949. 19 W632

40916 WRZESINSKI, R. Die Stellung der Ehegatten auf Kinderhöfen. Landwirtschaft 22(1/2): 8-9. 1949. 19 L235  
Austria.

40917 YAMAGUCHI, S. Some aspects of agrarian reform in Japan. Tokyo, Japan Inst. of Pacific Studies, 1948. 36 p. (Pacific Stud. Ser.) 282.183 Yal

40918 YANG, H. P., and LIAO, S. Y. Post-war agrarian reforms in different countries. (In Chinese.) Fukien Agr. J. 9: 195-205. Ref. June 1948. 22.5 F95  
English summary.

#### Land Utilization

40919 ALLBAUGH, L. G. Principles of sound land use in agriculture. In American Council on Education. Committee on Southern Regional Studies and Education. Scientists look at resources, p. 34-43. Lexington, 1948. 280.002 Am3S

40920 CABOT, T. D. Land use and its relation to foreign trade. New York, Middle Amer. Inform. Bur., 1948. 12 p. 282.14 C11  
Caribbean region.

40921 CALVACHE, A. El mapa geodésico: base del catastro nacional [Cuba]. Rev. Nac. de Ciencias Polít.-Econ.-Sociales 8(87): 5-6. Feb. 1949. 280.8 R3295

40922 DREYER, J. A. The utilization of our lands. Farming So. Africa 23: 762-763. Nov. 1948. 24 So842

40923 FLACCOMIO, E. When the geoagronomical map of Sicily? (In Italian.) Mezzogiorno Agr. 4(47): 1. Dec. 5, 1948. 16 M57

40924 GIBSON, L. E. Characteristics of a regional margin of the Corn and Dairy Belts. Assoc. Amer. Geog. Ann. 38: 244-270. Dec. 1948. 500 As73  
Land use.

40925 HAYSTEAD, L. Mis-using freedom's heritage. Natl. Assoc. Silo Mfrs. Proc. 36: 20-30. 1948. 60.79 N21  
Land use.

40926 HODSON, E. A. Putting idle acres to use. Avoset Dairyman 2(11): 4. Mar. 1949. 44.8 Av7

40927 HÖNL. Das ergebnis der bodenbenutzungs-erhebung 1948 in Württemberg-Baden. Statis. Monatsh. Württemberg-Baden 3(1): 1-6. Jan. 1949. 265 St24

40928 JOHNSON, P. E. Land use and human nutrition in the South. In American Council on Education. Committee on Southern Regional Studies and Education. Scientist look at resources, p. 74-81. Lexington, 1948. 280.002 Am3S

40929 KERNS, C. M. Farm game program in Maryland. Soil Conserv. 14: 147-148, 152. Feb. 1949. 1.6 So3S

Untillable land used for wildlife refuges.

40930 KRAEMER, E. O. Recent developments in Hawaiian land utilization. n. p., 1949. 30 p. 282.1995 K85

40931 LEAVITT, K. Proper land use. Amer. Cattle Prod. 30(10): 30-31, 39-42. Mar. 1949. 49 P94

40932 LOUL, D. Trees rebuilt this Wisconsin County; reforestation puts cutover land back to work and back on the tax rolls. Prairie Farmer, Gen. Ed. 121(4): 1, 46. Feb. 19, 1949. 6 P883

Marinette County land use program.

40933 MERNIG, E. Neulandgewinnung durch ödland-kultur. Kärntner Bauer 99: 34-35. Feb. 1, 1949. 19 K14

40934 OSGOOD, O. T. New method of farm land classification. Miss. Farm Res. [Miss. Sta.] 12(2): 3. Feb. 1949. 100 M69Mi

40935 REMY, C. La question du jour: labourage ou pastourage? Acclimatation 76(1): 1. Jan. 1, 1949. 14 Ac2

France.

40936 SEARS, P. B. Ecological principles in planning new resource use patterns. In American Council on Education. Committee on Southern Regional Studies and Education. Scientists look at resources, p. 126-131. Lexington, 1948. 280.002 Am3S

40937 TRINTIGNAC, R. La mise en valeur des Doukkala. Terre Maroc. 21: 31-44. Feb. 1949. 24 T44

40938 U. S. SOIL CONSERVATION SERV. The concept and principles of classifying land according to its capability. Preliminary. Washington, 1949. 18 p. 1.96 L22Co

40939 VERNÈDE, R. V. Ploughing of paths. Commons, Open Spaces and Footpaths Preserv. Soc. J. 9: 92-95. Jan. 1949. 98.9 C73  
Great Britain.

40940 WALLER, A. G., and others. If not potatoes—what? N. J. Agr. Expt. Sta. C. 523, 7 p. Feb. 1949. 100 N46S

C. S. Garrison, O. R. Neal, W. C. Skelley, J. C. Campbell, and O. G. Bowen, joint authors.  
Use of displaced potato acreage in New Jersey.

40941 WESTON, W. J. Explaining the Town and Country Act. 6. Change and development. Smallholder 80(2024): 12. Jan. 14, 1949. 10 Sm1

40942 WIGHTMAN, R. A system to fit the land. Farmer & Stock-Breeder 63: 264. Feb. 1, 1949. 10 F228  
In Great Britain.

#### Land Values and Valuation

40943 GREEN, A. J. Town and country planning act. 8. Purchase of land. Co-op. Rev. 23: 41-43. Feb. 1949. 280.28 C7823  
Great Britain.

40944 LARUE, P. Sur l'estimation des arbres fruitiers. Arbres et Fruits 35: 29-30. Jan. 1949. 80 Ar1

40945 LOVE, H. What is farm land worth? South. Planter 110(2): 48, 49. Feb. 1949. 6 So89

40946 REHNBERG, R. The value of a dairy farm. N. Y. Agr. Col. Farm Econ. 166: 4286. Jan. 1949. 280.8 C812

40947 SIEVERT, H. H. Verkehr mit land- und forstwirtschaftlichen grundstücken. Württemb. Wchnbl. f. Landw. 116: 25-26. (To be cont.) Jan. 15, 1949. 18 W96

40948 U. S. FARM CREDIT ADMIN. Federal Farm. Mortgage Corporation surplus nonindustrial real property disposal; review of operations during the quarter and 6 months ended December 25, 1948 and sales classified by type of purchaser, from the beginning of the program through December 25, 1948. Washington? 1949? Un-paged. 1.955 F2F313

40949 VISHER, S. S. Regionalization of Indiana. Assoc. Amer. Geog. Ann. 38: 282-300. Dec. 1948. 500 As73  
Includes land values and soil types.

40950 WHITLOCK, R. On finding a farm; high costs and few openings hamper would-be settlers. Field 193: 150-151. Feb. 5, 1949. 10 F45  
In Great Britain.



## POPULATION

- 40951 BARCLAY, R. S., and DARLING, F. F. Recent changes in crofting populations, including a method for estimating the population of administrative areas. *Scot. Agr.* 28: 121-126. Winter 1948/49. 10 Sco82So In Scotland.
- 40952 HIRMAN, E. Landflucht der bäuerin. *Landwirtschaft* 1948: 328-329. Nov. 25, 1948. 19 L235
- 40953 LEMASSON, P. Les migrations intérieures vont-elles enfin pouvoir aider efficacement les familles rurales? *Foyer Rural* [Paris] 11(59): 3. Dec. 12, 1948. 14 F83
- 40954 MILHAU, J. Structure démographique du monde rural. *Libération Paysanne* 5(199): 6; (201): 6. (To be cont.) Jan. 20, Feb. 3, 1949. 14 L61
- 40955 NEW YORK (STATE) LEGISLATURE. JOINT COMMITTEE ON PROBLEMS OF THE AGING. Birthdays don't count. Albany? 1948. 326 p. (Legis. Doc. (1948) 61) 280 N487  
Includes aged in agriculture and nutrition for the aged.
- 40956 POTOMAC GRANGE NO. 1, PATRONS OF HUSBANDRY. Effect of surplus farm population on farm problems and needed readjustment. Washington, 1948. 7 p. 281.12 P84E
- 40957 U. S. PUBLIC HEALTH SERVICE. Vital statistics of the United States, 1946. II. Natality and mortality data for the United States tabulated by place of residence. Washington, 1948. 647 p. 157.41 V832  
Includes rural data.
- 40958 WARMAN, H. J. Population of the manor counties of Maryland. *Econ. Geog.* 25(1): 23-40. Jan. 1949. 278.8 Ec7

## RURAL SOCIAL ORGANIZATION

- 40959 ALLAN, J. R. Farmer's boy. Edinburgh, Serif Books, 1948. 173 p. (Scot. Evergreen Ser. 1) 281.171 AL52
- 40960 ANDERSON, D. I. Rural living, housing, and house furnishing outlook. *N. J. Farm Econ. Situation* 1949: 20-21. Jan./Mar. 1949. 275.28 N4622
- 40961 BENEDICT, M. R. The social sciences in experiment station research. n. p., 1948. 16 p. 281.12 B43
- 40962 CHAPMAN, P. W. Social organization for use of agricultural resources. In *American Council on Education. Committee on Southern Regional Studies and Education. Scientists look at resources*, p. 82-94. Lexington, 1948. 280.002 Am3S
- 40963 CHAPRON, C. La législation sociale de l'agriculture marque le pas. *Unité Paysanne* 4(166): 1, 4. Jan. 8, 1949. 14 Un3
- 40964 ELEAZER, J. M. Reliving old days on the farm. *Victory Farm Forum* 34: 12-13. Mar. 1949. 281.8 F226
- 40965 HEDRICK, U. P. The land of the crooked tree. New York, Oxford U. Press, 1948. 350 p. 281.2 H352  
Rural life in Michigan.
- 40966 NOWACKI, T. Scientific aspects of rural welfare work. (In Polish.) *Zycie Nauki* 6: 188-196, 313. 1948. 475 Z9  
English summary.
- 40967 TAYLOR, C. C., and others. Rural life in the United States. New York, Knopf, 1949. 549 p. 281.2 T21R  
D. Enslinger, T. W. Longmore, L. J. Ducoff, A. F. Raper, M. J. Hagood, W. C. McKain, Jr., and E. A. Schuler, joint authors.

## Human Ecology

- 40968 CLAPP, G. R. The T.V.A. approach. *Land* 7: 593. Winter 1948/49. 279.8 L22
- 40969 CRAM, J. S. Do community institutions enrich your life? *Family Herald & Weekly Star* 80(4): 9. Jan. 26, 1949. 7 F21
- 40970 DAVIS, D. H. The earth and man, a human geography. Rev. ed. New York, Macmillan, 1948. 696 p. 278 D29  
Discusses agriculture as a factor in environmental change, and types of agriculture.
- 40971 HALL, J. Halcott, N. Y., folks saw what was needed, rolled up their sleeves and started building a better community. *Amer. Agr.* 146: 127, 157. Mar. 5, 1949. 6 Am3

40972 HOLMES, J. M. Regional planning in Australia. *Geog. J.* 112: 78-82. Jan. 1949. 472 G29

40973 ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Community survival. *Ill. Agr. Col. Ext. C.* 633, 19 p. Jan. 1949. 275.29 IL62C

Central Illinois Community-Betterment Program.

40974 LEONARD, Q. E. The role of the land grant in the social organization and social processes of a Spanish-American village in New Mexico. *Ann Arbor*, 1943, pub. 1948. 154 p. 282.059 L55

40975 NAO, F. Chu-goku noson shakai no kozo [Chinese farm villages society structure]. Kyoto, Japan, 1948. 507 p. 280.184 N15

## Institutions

- 40976 AHLGRIMM, Die landwirtschaftliche forschungsanstalt Braunschweig-Völkenrode. *Nachr. f. Beratung u. Ausbildung in der Landw.* 1: 45-46. Dec. 1948. 18 N11
- 40977 ARGENTINA. MINISTERIO DE AGRICULTURA. DIRECCIÓN GENERAL DE ENSEÑANZA Y FOMENTO AGRÍCOLA. Escuelas prácticas de agrícola. Argentina. *Dir. de Inform. P. Misc.* 294, 8 p. 1948. 9 P943
- 40978 ARMSTRONG, O. K. Mountain school that trains leaders. *Country Gent.* 119(3): 27, 140-143. Mar. 1949. 6 C833  
School of the Ozarks gives boys and girls from the backwoods homes a chance at academic and vocational training.
- 40979 ARNOLD, B. Want to do a better job? Radio may be the answer. *Agricultural colleges should train prospective extension workers in public relations. Better Farming Methods* 21(4): 20. Apr. 1949. 58.8 B46
- 40980 BALLAL, D. K. Results of the University examinations in agriculture and their relation with college examination. *Nagpur Agr. Col. Mag.* 23: 16-19. June/Sept. 1948. 107.5 N132
- 40981 BARNEY, D. Cooperative health programs for rural areas. *Okla. Union Farmer* 30(4): 5. Mar. 1949. 280.28 Ok4
- 40982 BAUR, R. C. The blessing of the land. *Nature Mag.* 42: 167-169. Apr. 1949. 409.6 N214  
Religion.
- 40983 BECKER, E. L. The church and the country. *Town & Country Church* 52: 2-3. Apr. 1949. 281.28 T66
- 40984 BECUE, C. L'enseignement agricole doit rester aux agriculteurs. *J. de la France Agr.* 5: 64. Feb. 11/17, 1949. 14 J829
- 40985 BENDER, R. E. The development of a problem check list and a demonstration of its use in planning rural youth programs. Ohio. State U. Abs. Doctoral Diss. 1946/47) 54: 43-52. 1948. 241.8 Oh3
- 40986 BINDER, F. Weg und ziel unserer landjugend! *Allgäuer Bauernbl.* 16: 343. Dec. 24, 1948. 18 AL53
- 40987 BLUM, W. R. Meisterausbildung in der landwirtschaft. *Nachr. f. Beratung u. Ausbildung in der Landw.* 1: 18-19. Oct. 1948. 18 N11  
Germany.
- 40988 BURNS, K. V. Behind the teaching is the teacher; some thoughts on professional improvement for home demonstration agents. *Ext. Serv. Rev.* 20: 32-33. Feb. 1949. 1 Ex892Ex
- 40989 CAMP, B. Who cares about school busses? *Successful Farming* 47(3): 44-45, 118, 120-121. Mar. 1949. 6 Su12
- 40990 CASHMORE, A. B. The [British] Commonwealth Agricultural Bureaux. *Austral. Inst. Agr. Sci. J.* 14: 162-166. Dec. 1948. 23 Au74
- 40991 CHATER, S. W. Cheaper and better health services for farmers. (In Afrikaans.) *Primary Prod. [Cape Town]* 24(3): 15. Jan. 21, 1949. 281.8 P93
- 40992 CLARK, T. D. The rural press and the new South. Baton Rouge, La. State U. Press, 1948. 111 p. (Walter Lynwood Fleming Lectures in South. Hist. La. State U.) 238 C54
- 40993 CLARK, T. D. The southern country editor. Indianapolis, Bobbs-Merrill, 1948. 365 p. 238 C54S
- 40994 COFER, E., and FRAME, L. W. The family's health plan. *W. Va. Agr. Col. Ext. Good Living Ser.* 16, Today's Family Trains Tomorrow's Citizens, Lesson 5, 6 p. 1948? 275.29 W522G



- 40995 THE CONTINUING study of farm publications, No. 2-7. New York, Advertising Res. Found., 1947-48. 238.29 C76
2. The Washington Farmer, 56 p.; 3. Successful Farming, 186 p.; 4. Wallaces' Farmer and Iowa Homestead, 100 p.; 5. New England Homestead, 74 p.; 6. Progressive Farmer, 158 p.; 7. The Farmer, 82 p.
- 40996 CRAVEN, R. The farm family plans. Clemson Agr. Col. S. C. Ext. C. 78, 4 p. 1948. 275.29 C59C
- 40997 CRAVEN, R. My part in family planning. Clemson Agr. Col. S. C. Ext. C. 77, 6 p. 1948. 275.29 C59C
- 40998 DECKER, B. E. Criteria for evaluating area programs of supervision in vocational education in agriculture. Pa. State Col. Abs. Doct. Diss. (1947) 10: 7-15. 1948. 241.8 P38
- 40999 DELAURENTI, J. C. Institutional on-farm training program at Highland, Illinois. Agr. Ed. Mag. 21: 176-177. Feb. 1949. 275.8 Ag8
- 41000 DEYOE, G. P. The promise of the research approach. Agr. Ed. Mag. 21: 200-201. Ref. Mar. 1949. 275.8 Ag8
- 41001 DURBIN, G. J. Farm radio programs play important part giving rural listeners latest information. La. Stockman Farmer 1949: 5, 7. Jan. 1949. 6 L933
- 41002 ENGEL, L. Rural medicine reborn. Nation 168: 275-277. Mar. 5, 1949. 280.8 N215
- 41003 FELTON, R. A. How work, worship, service and recreation make a great country church. Prog. Farmer, Miss.-Ark.-La. Ed. 64(2): 15, 56. Feb. 1949. 6 So81
- 41004 FRECKMANN, Das deutsche landwirtschafts-schul- und forschungswesen. Landw. Wchnbl. f. Westfalen u. Lippe 106: 29-30. Jan. 15, 1949. 18 L2346
- 41005 GIBSON, R. R. Adult farmer classes at Tipton, Missouri. Agr. Ed. Mag. 21: 180-181. Feb. 1949. 275.8 Ag8
- 41006 GIBSON, T. China's battle for the land. United Nations News 4: 5-7. Jan./Feb. 1949. 280.8 Un382
- 41007 GYNN, G. 1,000 workers a year. Farmer & Stock-Breeder 63: 262. Feb. 1, 1949. 10 F228
- The scheme - British Boys for British Farms, trains town boys for agriculture.
- 41008 HALLANDER, A. Vocational education in agriculture and forestry. (In Swedish.) Skogen 36: 37. Feb. 1, 1949. 99.8 Sk51
- 41009 HAMLIN, H. M. Upgrading instructors through a graduate program. Agr. Ed. Mag. 21: 202-203, 213. Mar. 1949. 275.8 Ag8
- 41010 HANCHETT, R. Can you qualify for a scholarship award? Iowa Agriculturist 47(7): 18-19. Feb. 1949. 6 Io9
- Available scholarships and the qualifications needed to receive them.
- 41011 HANKINS, J. E. Pilot charges. Town & Country Church 51: 7-8. Mar. 1949. 281.28 T66
- Rural church activity.
- 41012 HAUSHOFER, H. Die landwirtschaftlichen hochschulen und ihre aufgaben für den beratungsdienst. Nachr. f. Beratung u. Ausbildung in der Landw. 1: 37-41. Dec. 1948. 18 N11
- Germany.
- 41013 HAWAII. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Agricultural extension in Hawaii; twenty years of rural service. Hawaii. U. Agr. Ext. B. 49, 32 p. Jan. 1949. 275.29 H312E
- 41014 HEMMING, C. Criteria for the evaluation of programs of vocational agriculture in secondary schools in Minnesota. Visitor 36(2): 1-4. Jan. 1949. 275.8 V822
- 41015 HILTON, E. P. Securing and training instructors for institutional on-farm training. Agr. Ed. Mag. 21: 198, 201. Mar. 1949. 275.8 Ag8
- 41016 HUBBARD, J. P., and others. Health services for the rural child; availability of hospitals, physicians and dentists in service areas. Chicago? Amer. Med. Assoc., 1948. 58 p. 448 H8612
- M. Y. Pennell and R. H. Britten, joint authors.
- 41017 HUMPHREYS, G. Houses for happy family memories. W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 6, 6 p. 1948? 275.29 W522G
- 41018 HUMPHREYS, G. The human side of world affairs. W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 7, 8 p. 1948? 275.29 W522G
- 41019 IMHOF, A. H. Experiment in teaching techniques. Natl. Co. Agent 5(2): 10-11, 30. Feb. 1949. 275.28 N213
- 41020 IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Supplementary catalog of audio-visual aids, September 1, 1948. Ames, 1948. 27 p. 275.9 Io93
- 41021 KAHL, N. F. National Vocational Agriculture Teachers Association. Agr. Ed. Mag. 21: 214. Mar. 1949. 275.8 Ag8
- 41022 KAWAI, E. Nogyo gijutsu to nogyo kakumei [Agricultural handicrafts and the agricultural revolution]. Kyoto, 1948. 427 p. 34.3 K172N
- 41023 KEATINGE, G. F. Hale and hearty? Farmers Weekly [London] 30(5): 45, 47. Feb. 4, 1949. 10 F2226
- Health and mortality of the countryman.
- 41024 KRÜGER, G. Erziehung des landmädchens zum selbständigen denken in den berufs- und fachschulen. Nachr. f. Beratung u. Ausbildung in der Landw. 1: 44-45. Dec. 1948. 18 N11
- Germany.
- 41025 LARGE, E. C. On writing up experimental work for farmers. Agr. Prog. 23: 36-43. 1948. 10 Ag86
- 41026 LEONARD, N. B. Let's prepare a publication. N. Y. Agr. Col. Cornell Ext. B. 753, 84 p. Jan. 1949. 275.29 N48E
- 41027 LESOC, G. Vie paysanne et progrès, social, moral, économique. Ed. 2. Paris, Maison Rustique, 1948. 214 p. 281.174 L56
- 41028 LOGAN, J. H. County agents, let's look at our job. Agr. Leaders' Digest 30(2): 20. Feb. 1949. 275.28 Am3
- 41029 LONGMORE, W. Planning health services for rural families. J. Home Econ. 41: 135-137. Mar. 1949. 321.8 J82
- 41030 MCMENAMIN, J. P. A young man's vision and its realisation. Land [Sydney] (Farm & Sta. Ann.) 1928: 29, 31, 38. Oct. 20, 1948. 23 L22
- Fairbridge Farm Schools.
- 41031 MAJOR, E. B. A rural adventure in religion. South. Planter 109(11): 46-47, 52. Nov. 1948. 6 So89
- Consolidation of rural churches.
- 41032 MARSHBURN, E. Planning for rural health improvement. Town & Country Church 52: 4. Apr. 1949. 281.28 T66
- 41033 MATELA, A. G. Content of curricula for teachers of vocational agriculture in separate land-grant colleges. Agr. Ed. Mag. 21: 188-189. Feb. 1949. 275.8 Ag8
- 41034 MIRÓN CUEVAS, A. Los problemas de la educación rural en México. Agr. y Ganad. 23 i.e. 24 (4 i.e. 1): 3-8. Jan. 31, 1949. 8 Ag834
- 41035 MONTAÑA CAMACHO, G. El campesino existe. Rev. Agr. y Ganad. 10(109): 18-19. Nov. 1948. 9.4 R327
- Colombia.
- 41036 NEW YORK. STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Extension Service Summer School at Cornell University, 1948. Ithaca, 1948. 12 p. 275.29 N48Es
- 41037 NIEMANN, F. J. Schulreform auf dem lande. I. Nachr. f. Beratung u. Ausbildung in der Landw. 1: 19-21. Oct. 1948. 18 N11
- Germany.
- 41038 OBANDO, W. L. El problema del Indio en Bolivia. Agros [Cochabamba] 1: 51-52. Oct. 1948. 9.4 Ag86
- 41039 OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The fourth H is health. Ohio. Agr. Col. Ext. 4-H C. 161, 4 p. Mar. 1948. 275.29 Oh322
- 41040 PAWSON, H. C. In the beginning; a series of articles dealing with the development of educational and research institutions. 10. The Department of Agriculture, King's College, University of Durham. Agr. Prog. 23: 7-15. 1948. 10 Ag86
- 41041 PETERS, J. A. The school fair can pay off. Agr. Ed. Mag. 21: 185-186. Feb. 1949. 275.8 Ag8



- 41042 RAPKING, A. H. The rural minister and his message. Christian Rur. Fellowship B. 139, 4 p. Jan. 1949. 281.29 C46
- 41043 RAWLINGS, J. C. A call to the heroic. Town & Country Church 51: 8-9. Mar. 1949. 281.28 T66  
The rural ministry.
- 41044 RICAUDY, A. DE. Le paysan à travers les âges. Paysan Franç. 24(374): 4. (Cont.) Feb. 1949. 14 P29
- 41045 ROUSSIAUX, P. Pour mieux produire dans l'avenir des jeunes étudient l'exploitation paternelle. J. de la France Agr. 5: 24. Jan. 14/20, 1949. 14 J829
- 41046 RUPP, C. A medical plan for Kansas. Nation's Agr. 23(3): 10-11, 13. Mar. 1949. 280.82 B89
- 41047 RURAL church advance. Christian Rur. Fellowship B. 140, 6 p. Feb. 1949. 281.29 C46
- 41048 SCHINDLER. Volkshochschule für die landbevölkerung! Landw. Wchnbl. 138: 463. Dec. 25, 1948. 18 L2338  
Germany.
- 41049 SCHOPFLOCHER, R. Hay que llevar la industrialización al campo para evitar la despoblación rural. Pampa Argentina 22(256): 1. Dec. 1948. 9 P19
- 41050 SCHULZE ZUR WIESCH, I. Die landfrau als erzieherin. Neue Mitt. f. die Landw. 3: 369-370. Nov. 5, 1948. 18 N39
- 41051 SCHUMY, V. Bauer! willst du frei bleiben? Die kulaken. Allg. Bauern-Ztg. 4(3): 1. Jan. 15, 1949. 281.8 AL5
- 41052 SHEPPARD, A. On-farm training in Holmes County, Florida. Agr. Ed. Mag. 21: 178, 190. Feb. 1949. 275.8 Ag8
- 41053 SKILBECK, D. Wye College. Agr. Prog. 23: 16-21. 1948. 10 Ag86  
Agricultural education.
- 41054 SLATER, W. K. Films, film strips and lantern slides. Agr. Prog. 23: 26-29. 1948. 10 Ag86
- 41055 SMITH, W. A. Art in a rural community. Town & Country Church 52: 9. Apr. 1949. 281.28 T66
- 41056 SNIDER, C. F., and GARVEY, N. F. Rural local government; county and township government in 1947. Amer. Polit. Sci. Rev. 43(1): 53-72. Feb. 1949. 280.8 Am33
- 41057 STAFFORD, L. O. Program for wives of veterans in Allen County, Indiana. Agr. Ed. Mag. 21: 177. Feb. 1949. 275.8 Ag8
- 41058 STANLEY, J. W. La Casa del Pueblo: Mexico's experiment in rural education. Stanford U. Abs. Diss. 23: 37-40. 1948. 241.8 St2
- 41059 STEWART, J. They serve Utah. Utah Farmer 68(12): 8, 22. Feb. 12, 1949. 6 D45  
Extension work.
- 41060 SUMMERS, E. La extensión agrícola en el Perú. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr. 15: 37-40. Oct. 1948. 9.8 P4352
- 41061 SUMMERS, E. Planes para la organización de un servicio de extensión agrícola completo en Costa Rica. Suelo Tico 1: 91-107, 195-206. Sept.-Oct. 1948. 8 Su2
- 41062 SWANSON, G. I. Criteria for evaluating outcomes of individualized courses of instruction in vocational agriculture. Agr. Ed. Mag. 21: 199, 207, 213. Mar. 1949. 275.8 Ag8
- 41063 TAILLEFERT, A. L'enseignement agricole. In Balmer, J. R. Agriculture et viticulture, p. 77-85. Neuchâtel (Suisse), 1948. 33.21 B21  
Switzerland.
- 41064 TAYLOR, A. J. A higher standard of education for the young farmer. Farming So. Africa 23: 772, 798. Dec. 1948. 24 So842
- 41065 TERRE DE CHEZ NOUS, 21(2A, i. e. 24), 48 p. Mar. 9, 1949. 7 T27  
Twentieth anniversary issue of the periodical Terre de Chez Nous, with many signed articles on the work and influence of the magazine.
- 41066 TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. The Lubbock County study; an evaluation of the effectiveness of extension work in Lubbock County, Texas, 1947. Tex. Agr. Col. Ext. R-11, 30 p. 1948. 275.29 T31Cs
- 41067 THEODOROU, N. T. A study of former students of vocational agriculture in the Watkins Glen area. N. Y. (Cornell) Agr. Expt. Sta. B. 848, 40 p. Nov. 1948. 100 N48C
- 41069 THOMAS, R. B. Promoting Christian unity in the rural community. Town & Country Church 52: 1-2. Apr. 1949. 281.28 T66
- 41069 U. S. EXTENSION SERV. Extension teaching methods, foods and nutrition. Excerpts taken from 1947 annual reports of Eastern State specialists, by E. Davis. Washington? 1949. 12 p. 1.913 F4Ex82
- 41070 U. S. EXTENSION SERV. Program, National Extension Young Adult Planning Conference, State 4-H Club Camp, Jackson's Mill, Weston, W. Va., February 21 to 25, 1949. Washington, 1949. 4 p. 1.9 Ex892Fbp
- 41071 VAN ETTEEN, L. J. We need more practical courses for high schools and colleges. Agr. Leaders' Digest 30(2): 22, 24-25. Feb. 1949. 275.28 Am3
- 41072 VASCHÉ, J. B. The effect of land-grant legislation upon higher education in California. Stanford U. Abs. Diss. 23: 375-377. 1948. 241.8 St2
- 41073 WADSWORTH, H. A. Agricultural teaching jobs develop in Pacific Islands. Better Farming Methods 21(4): 17. Apr. 1949. 58.8 B46
- 41074 WEISS, H. Bauer, deine berufsschule beginnt! Kärntner Bauer 98: 356. Nov. 1, 1948. 19 K14
- 41075 WESTON, W. A. R. D. Educational exhibits and demonstrations. Agr. Prog. 23: 30-35. 1948. 10 Ag86
- 41076 WIGHTMAN, R. The old craft of the saddler. Home & Country 31: 47-48. Mar. 1949. 281.28 H752
- 41077 WILSON, J. E. Organizing instruction for veterans. Agr. Ed. Mag. 21: 196-197. Mar. 1949. 275.8 Ag8
- 41078 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Agricultural extension in Wisconsin; report for 1947. Wis. Agr. Col. Ext. C. 380, 32 p. July 1948. 275.29 W75C
- 41079 WYOMING. UNIVERSITY. DEVELOPMENTAL STUDY COMMITTEE. Here is Wyoming; the University and its state background, by R. Hudson. Laramie? 1948. 115 p. 276 W99H

#### Leadership

- 41080 LANTRIP, D. S., and RUTLEDGE, L. L. 4-H leaders. Ark. Agr. Col. Ext. C. 456, 19 p. Mar. 1948. 275.29 Ar4
- 41081 MCKEE, K. L. Building for tomorrow; a 4-H leader's handbook. Ariz. Agr. Col. Ext. C. 146, 17 p. Nov. 1948. 275.29 Ar42

#### Rural Organizations and Movements

- 41082 AMERICAN FARM BUREAU FEDERATION. Annual report 1948. 1948. 32 p. 280.83 Am3A
- 41083 ANGERS, F. A. Vue d'ensemble sur la coopération au Canada. Terre de Chez Nous 21(20): 10, 22, 18. (To be cont.) Feb. 9, 1949. 7 T27
- 41084 ANTONIOLETTI, M. Principios y función económico-social del cooperativismo. Serv. Coop. Interamer. de Prod. de Alimentos. Inform. del SCIPA. Ser. para los Agr. 15: 61-65. Oct. 1948. 9.8 P4352
- 41085 ASMIS. Das geheimnis des erfolges in der DLG.-arbeit. Neue Mitt. f. die Landw. 3: 443-444. Dec. 5, 1948. 18 N39  
Deutsche Landwirtschafts-Gesellschaft.
- 41086 BARTLETT, R. W. Development of cooperatives. Popkess' Dairyman's J. 35(12): 6, 12, 15. Mar. 1949. 44.8 D142
- 41087 BAUER, A. Was ist die 4-H-organisation? Salzburger Bauer 4(6): 4-5. Feb. 10, 1949. 19 Sa3
- 41088 BLONDELLE, R. Le communisme contre le syndicalisme agricole. Unité Paysanne 3(164): 3. Dec. 25, 1948. 14 Un3  
France.
- 41089 BOERGER, A. Cooperación agronomica rioplatense. IDIA; Inform. de Invest. Agr. 2(13): 3-5. Jan. 1949. 9 Id3
- 41090 BOWMAN, R. Food important in F.F.A. activities. Agr. Ed. Mag. 21: 183-184. Feb. 1949. 275.8 Ag8
- 41091 BRANNAN, C. F. Co-ops' excellent business management has been their trademark for 14 years. (Abs.) Kentucky Elect. Co-op News 2(2): 7. Feb. 1949. 335.8 K41
- 41092 BROWN, B. L. 5,000 strong, F. F. A. build agriculture. Washcoegg 26(10): 48, 50, 69-70. Mar. 1949. 47.8 W27



- 41093 BUCHINGER, R. Zum jahreswechsel 1949. Landw. Genossenschaftsbl. f. Niederösterreich 46(1): 1-4. Jan. 1, 1949. 280.28 L23  
Situation for cooperatives.
- 41094 CANONGE, H. Il faut mobiliser les volontés paysannes. Libération Paysanne 50(204): 1. Feb. 24, 1949. 14 L61  
France.
- 41095 CLARTÉ, R. Syndicats et coopératives agricoles aux Pays-Bas. Potasse 23: 29-31. Feb. 1949. 57.8 P84
- 41096 COADY, M. M. The story of the Antigonish movement. Town & Country Church 51: 1-3. Mar. 1949. 281.28 T66
- 41097 CULBRETH, H. W. When a fellow needs a friend. Ohio Farm Bur. News 28(7): 14, 28-30. Feb. 1949. 6 Oh34  
Organization of the Ohio Farm Bureau Federation and the Farm Bureau Insurance Companies.
- 41098 DAHLE, R. F.F.A. serves the community. Agr. Ed. Mag. 21: 184. Feb. 1949. 275.8 Ag8
- 41099 DRAKE, E. M. Maintaining a Future Farmer bulletin board. Agr. Ed. Mag. 21: 174. Feb. 1949. 275.8 Ag8
- 41100 DUGGAN, I. W. High costs of replacements require action. News Farmer Coop. 15(11): 4, 15. Feb. 1949. 166.2 N47  
Financial planning of cooperative organizations.
- 41101 EHMANN, W. Gedanken zur neugründung der landw. Zentralgenossenschaft Württembergs. Württemb. Wchnbl. f. Landw. 116: 4. Jan. 1, 1949. 18 W96
- 41102 FARM CREDIT ADMINISTRATION OF BERKELEY. Farmers' cooperatives in California (not including mutual water companies) Berkeley? 1948. 36 p. 280.29 F2222
- 41103 FARRINGTON, R. L. Watch your ratio yardsticks. News Farmer Coop. 15(11): 6, 20-21. Feb. 1949. 166.2 N47  
Financial situation of cooperative organizations.
- 41104 FROSTENSON, G. Farmers' cooperatives in Sweden. N. Y. Agr. Col. Farm Econ. 166: 4279-4280. Jan. 1949. 280.8 C812
- 41105 GARRIS, E. W. Topics for F.F.A. chapter programs. Agr. Ed. Mag. 21: 211. Mar. 1949. 275.8 Ag8
- 41106 GUIJARRO, F. Naturaleza jurídica de las uniones de cooperativas. Cooperación 7(80): 16-17. Oct. 1948. 280.28 C7875
- 41107 HARTNETT, D. A life for the future. Cornell Countryman 46(5): 7, 15. Feb. 1949. 6 C81  
Youth Clubs in New York State with particular reference to the work of Rufus Stanley.
- 41108 HAYNES, K. H. Figures still don't lie. Coop. Digest 9(8A): 48-49. Feb. 15, 1949. 280.28 C7896  
Statistics of farmer cooperatives.
- 41109 HORLACHER, M. Der deutsche Raiffeisenverband. Landw. Wchnbl. 138: 442. Dec. 18, 1948. 18 L2338
- 41110 HUMPHREYS, G. How forward-looking is your club? W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 1, 6 p. 1948? 275.29 W522G
- 41111 HUTCHINSON, C. R. Co-ops are here to stay. Ohio Farm Bur. News 28(7): 12-13. Feb. 1949. 6 Oh34
- 41112 JACKSON, C. L. Need for education in co-operation. In Wisconsin Council of Agriculture Co-operative. Future Farmers and farmer co-operatives, p. 3-4. Madison, 1948. 280.2 W754
- 41113 JERDAN, A. L., and WALRATH, F. J. Tennessee co-op handbook. Tenn. Agr. Col. Ext. P. 311, 28 p. Nov. 1948. 275.29 T25
- 41114 JONAS, J. History of agriculture productive co-operatives. (In Czech.) Družstevní Rev. 2: 88-92, 120-122, 152-155. Nov.-Dec. 1948, Jan. 1949. 280.28 D84  
English and Russian summary.
- 41115 KERN, F. Der Schweizerische Bauernverband. Oberösterr. Landwirtschaftsztg. 20(52/53): 1-2. Dec. 22, 1948. 19 Ob23
- 41116 KRUTHOF, A. Cooperative education and possibilities for its further development. (In Dutch.) Co-op [Rotterdam] 4: 28-32. Feb. 1949. 280.28 C7857
- 41117 LOVELAND, A. J. Necessity is the mother of co-ops. DPMA News 9(5): 8-11. Feb. 1949. 280.28 D144
- 41118 LUCHT, G. Mangelnde Klarheit über die Konsumgenossenschaften. Versorgung 3: 49-50. Nov. 1948. 280.8 V61  
Russian zone of Germany.
- 41119 MEISSNER, F. The co-operative movement in Danish agriculture. (In Czech.) Družstevní Rev. 2: 53-56. Oct. 1948. 280.28 D84  
Summary in English.
- 41120 MICHAEL, B., JR. How F. F. A. builds for the future. Mont. Wool Grower 23(3): 20. Mar. 1949. 45.8 M762
- 41121 MILLER, A. R. Some special characteristics of agricultural cooperatives that make them interesting accounting problems. J. Accountancy 87: 233-234. Mar. 1949. 325.8 J82
- 41122 MOURA, V. Aspects of the gaúcho movement: cooperatives in the South [Brazil]. (In Portuguese.) Observador Econ. e Financeiro 13(155): 93-98. Dec. 1948. 280.8 Ob72
- 41123 MUÑOZ GRANDES, F. La cooperación agrícola en el mundo. Cooperación 7(80): 6-8. Oct. 1948. 280.28 C7875
- 41124 MYERS, G. M. Farm cooperative youth education. Agr. Ed. Mag. 21: 205. Mar. 1949. 275.8 Ag8
- 41125 NEPOMUCKÝ, J. Agricultural co-operation and the International Co-operative Alliance. (In Czech.) Družstevní Rev. 2: 36-38. Oct. 1948. 280.28 D84
- 41126 NICHOLS, M. Cooperation institute deals only in education. Utah Farmer 68(12): 31. Feb. 12, 1949. 6 D45  
American Institute of Cooperation.
- 41127 NORTH DAKOTA. AGRICULTURAL COLLEGE. EXTENSION SERV. 4-H in North Dakota. N. Dak. Agr. Col. Ext. C. A-129, 8 p.-folder. Apr. 1948. 275.29 N812Sa
- 41128 OKLAHOMA STATE GRANGE. Proceedings of the annual session, 33d, 1948. 1949? 62 p. 4 Ok42P
- 41129 O'MEARA, J. E. Ontario's co-operatives, 1946-47; a survey of co-operative business organizations in the Province of Ontario, 1946-47. Toronto? Econ. Div. Mktg. Serv., 1948. 72 p. 280.2 Om2
- 41130 OWENS, O. Co-operative history [Wisconsin]. In Wisconsin Council of Agriculture Co-operative. Future Farmers and farmer co-operatives, p. 5-8. Madison, 1948. 280.2 W754
- 41131 PATERNO, D. Organization of production cooperatives in Rio Grande do Sul. II. (In Portuguese.) Cooperativismo [Rio de Janeiro] 3(31): 21, 25-26. Jan. 1949. 280.28 C7856
- 41132 PIGUING, R. M. Why we should organize co-operatives. Agr.-Com.-Indus. Life 11(1/2): 6. Jan./Feb. 1949. 25 Ag8  
Philippine Republic.
- 41133 PLANTERS' ASSOCIATION OF CEYLON. Year book, 1947. 1948. various paging. 22 C33P
- 41134 PORTER, L. We need more interest in 4-H Club work. San Luis Val. Farmer & Stockman 3(5): 4, 14, 16. Jan. 1949. 6 Sa52
- 41135 SANDERS, J. T. Principles underlying Grange programs. Natl. Grange Monthly 47, i. e., 46(3): 14. Mar. 1949. 6 N215
- 41136 SASMAN, L. M. Education in co-operation. In Wisconsin Council of Agriculture Co-operative. Future Farmers and farmer co-operatives, p. 4-5. Madison, 1948. 280.2 W754
- 41137 SAUHEITL, A. Die landwirtschaftlichen Genossenschaften im Dienst der Versorgung. Versorgung 3: 33-35. Oct. 1948. 280.8 V61  
Russian zone of Germany.
- 41138 SCHAAP, W. G. The national importance of the agricultural club movement in South Africa. (In Afrikaans.) Primary Prod. [Cape Town] 24(5): 11. Feb. 4, 1949. 281.8 P93
- 41139 SCHAARS, M. A., and FROKER, R. K. Types of business organizations in the United States. In Wisconsin Council of Agriculture Co-operative. Future Farmers and farmer co-operatives, p. 8-11. Madison, 1948. 280.2 W754
- 41140 SCHREINER, D. G. When co-ops cooperate. Rural Electrification News 14(7/8): 10, 21, 23. Feb./Mar. 1949. 173.2 R88Ru



- 41141 SCHUETTE, G. Experiences of a farmer who co-operates. In Wisconsin Council of Agriculture Co-operative. Future Farmers and farmer co-operatives, p. 14-16. Madison, 1948. 280.2 W754
- 41142 SHAW, W. You and your neighbor are the builders of Farm Bureau. Nation's Agr. 23(3): 3. Mar. 1949. 280.82 B89
- 41143 SIMS, J. W. The widening circle of the farmer and his co-ops. Ohio Farm Bur. News 28(7): 9. Feb. 1949. 6 Oh34
- 41144 SIRRI, A. Technical and economic organizations in agriculture. (In Italian.) Allevatore 4(42): 1. Oct. 17, 1948. 49 AL55 Italy.
- 41145 STONG, B. J. Rock-ribbed farmers. New Repub. 120(9): 16-18. Feb. 28, 1949. 280.8 N42 American Farm Bureau Federation.
- 41146 STOUT, L. New farmers' union for Alberta. Family Herald & Weekly Star 80(4): 11. Jan. 26, 1949. 7 F21 Farmers' Union of Alberta.
- 41147 SULLARDS, G. F. Service activities are important. Agr. Ed. Mag. 21: 182. Feb. 1949. 275.8 Ag8 Future Farmers of America.
- 41148 SVAGR, Z. Agricultural co-operation in Switzerland. Co-op. News 4054: 2. Feb. 12, 1949. 280.28 C7897
- 41149 SWANTON, M. K. Co-operatives are present-day human creations. In Wisconsin Council of Agriculture Co-operative. Future Farmers and farmer co-operatives, p. 17-20. Madison, 1948. 280.2 W754
- 41150 TALBOT, P. L. Cooperation—our best protection. Md. Farmer 33(2): 21-23, 25. Feb. 1949. 6 M362
- 41151 TALBOT, P. L. Cooperatives make for farmer independence. Dairymen's League News 33(3): 1, 24. Feb. 8, 1949. 44.8 D1432
- 41152 TOUSSAINT, A. L'évolution de l'organisation professionnelle agricole va-t-elle entrer dans une 4<sup>e</sup> phase? Fiches Rurales (Etudes) 43, 8 p. Jan. 1949. 281.8 F44
- 41153 TRAVER, G. A. F.F.A. builds a better community. Agr. Ed. Mag. 21: 182. Feb. 1949. 275.8 Ag8
- 41154 TRIBE, D. E. Co-operation and education in Danish agriculture. Agr. Prog. 23: 67-71. 1948. 10 Ag86
- 41155 VANDERMYDE, J. B. Asserts co-ops prevent damage from great riches. Midland Coop. 16(26): 4. Mar. 2, 1949. 280.28 M58
- 41156 VERITY, D. J. Primary producers organise. Farmer [Kingston] 52: 133-138. July/Sept. 1948. 8 J223 Organization of the Central Committee of Primary Producers, Jamaica.
- 41157 VITTORANGELI, R. Brothers in the lap of the great Mother Earth. (In Italian.) Avvenire Agr. 56: 294-298. Dec. 1948. 16 Av9 Cooperative organizations in Italy.
- 41158 WARD, G. H. "Prof. Quiz" idea goes East. News Farmer Coop. 15(11): 10, 18. Feb. 1949. 166.2 N47 Contest on co-ops by members of Virginia Future Farmers of America.
- 41159 WITTE, W. L., and FISHER, R. E. Why farmers do business co-operatively. In Wisconsin Council of Agriculture Co-operative. Future Farmers and farmer co-operatives, p. 12-14. Madison, 1948. 280.2 W754

## RURAL SOCIAL PSYCHOLOGY

- 41160 FARIA, R. L. DE. Superstitions, fetishes and beliefs in the rural milieu. (In Portuguese.) Rev. Ceres 7: 332-354. (Cont.) Jan./May 1948. 9.2 C332 Brazil.
- 41161 GRIMSLEY, C. J., and SWAIN, V. S. The art of staying young. N. C. Agr. Col. Ext. Misc. Pam. 117, 7 p. Apr. 1948. 275.29 N811M
- 41162 STEIDLE, E. Roots of human progress. State College, Pa., 1948. 20 p. (Pa. State Col. Mineral Indus. Expt. Sta. Circular. 31) 280 St37 Includes the man-land relationship.

## TRADE, FOREIGN AND INTERNATIONAL

- 41163 ABBOTT, D. The importance of Alberta agriculture to Canada's export trade. Canad. Cattlemen 11: 196-197, 236-237. Mar. 1949. 49 C16
- 41164 ANDERSEN, P. N. Current economic problems abroad and at home. (In Danish.) Tolvmands-bladet 21: 14-21. Jan. 1949. 11 T58 Includes prospects for export of Danish farm products.
- 41165 ANDERSON, N., JR. Casein in the world market. Paper Trade J. 128(8): 86-87. Feb. 24, 1949. 302.8 P196
- 41166 AUWERA, G. VAN DER. A way out for our witloof culture. (In Flemish.) Tuinbouwberichten 13: 3, 9. Jan. 15, 1949. 80 T817 Chiefly on export.
- 41167 BROWN, G. Unfavourable farm reaction to Anglo-Canadian wheat agreement. Broomhall's (George) Corn Trade News 189: 92-94. Jan. 31, 1949. 286.81 B79B
- 41168 BROWNE, G. A. Pakistan allocates major portion of current cotton crop to India. Foreign Trade 5: 326-327. Feb. 12, 1949. 286.8 C162
- 41169 BUTZ, V. World trade is your problem. Successful Farming 47(3): 33, 93-95, 134. Mar. 1949. 6 Sul2
- 41170 CAÑON, J. J. Nuestra capacidad ganadera para la exportación. Rev. Agr. y Ganad. 11(110): 10-11. Dec. 1948/Jan. 1949. 9.4 R327 Colombia.
- 41171 COMEZ, A. Six months of wool trade with the outside. (In Italian.) Laniera 62: 471, 473. Sept. 1948. 45.8 B63
- 41172 CORRE, J. H. La France, premier pays viticole du monde importe annuellement du raisin pour un demi-milliard. Paysan Franç. 24(375): 8-9. Mar. 1949. 14 P29
- 41173 COSSETTE, M. En marge de nos contrats avec l'Angleterre. B. des Agr. 45(1): 10, 59. Feb. 1949. 7 B872 Canadian trade.
- 41174 DUNCAN, W. R. J. How India can sell more tea to U.S., Canada. Spice Mill 72(2): 39, 44, 54. Feb. 1949. 389.8 Sp4
- 41175 EMMEL, E. Die neuregelung der einfuhrspanne; auslobungsverfahren bei getreide nicht durchfuhrbar. Ernährungsdienst 4(2): 3. Jan. 6, 1949. 389.8 Er62 Germany.
- 41176 FINLAND. STATISTISKA CENTRALBYRÅN. Commerce extérieur, 1947. (In Finnish and Swedish.) Helsinki, 1948. 201 p. 267.5 B47H Title, summary and tables in French.
- 41177 GERSTNER, K. H. Aussenhandel und messe. Versorgung 3: 36-37. Oct. 1948. 280.8 V61 Russian zone of Germany.
- 41178 GREW, R. India must import large supply of foodgrains in current year. Foreign Trade 5: 286-287. Feb. 5, 1949. 286.8 C162
- 41179 HEDGE, P. A look at foreign tobacco markets South. Agr. 77(12): 13, 24, 25, 37. Dec. 1948. 6 So83
- 41180 HOPPER, W. C. Britain is principal market for New Zealand apples and pears. Foreign Trade 5: 283-285. Feb. 5, 1949. 286.8 C162
- 41181 INDIAN CENTRAL COTTON COMMITTEE. Exports by sea of Indian raw cotton classified by varieties, 1946-47 season. Indian Cent. Cotton Com. Statis. Leaflet 1946/47(4), 5 p. July 1948. 72.9 In233St
- 41182 ISTITUTO COTONIERO ITALIANO. SERVIZIO STATISTICA. UFFICIO STUDI. Scambi con l'estero dell'industria cotoniera italiana, [Foreign exchange in the Italian cotton industry] 1947. 1948? 108 p. 286.3729 Is7
- 41183 KELLER, J. C. Peanut export allocations high. Peanut J. & Nut World 22(12): 29, 44. Oct. 7, 1948. 77.8 P313
- 41184 MARGULIES, R. Reformbedürftige getreide-einfuhr. Ernährungsdienst 4(12): 3. Feb. 10, 1949. 389.8 Er63 Germany.
- 41185 MAUNG, U. H. Burma's rice export. Burma Mkt. Rev. 3: 66. Jan. 4, 1949. 286.8 B92
- 41186 NICOLINI, G. Immediate and future prospects of Italian flower exports. (In Italian.) Humus 5: 19-24. Jan. 1949. 16 H88



- 41187 NORWAY. STATISTISK SENTRALBYRA. Aperçu de la situation économique en 1948. (In Norwegian.) Oslo, 1949. 121 p. (Norges Offisielle Statistikk X. 171) 257.2 S2S0  
Table of contents in French.  
Includes agriculture and trade.
- 41188 PRINS, M. Is there an opportunity for our vegetables in Canada. (In Dutch.) *Tuinbouw* 4: 3-5. Jan. 1949. 80 T815
- 41189 SCHWENGER, R. B. The ITO [International Trade Organization] charter and farmers. *Agr. Situation* 33(2): 12-13. Feb. 1949. 1 Ec7Ag
- 41190 SHELTON, K. P. Effect on the domestic economy of purchasing farm machinery for export. *Amer. Enterp. Assoc. Basic Commod. Involved European Recovery Program* 8, 22 p. Apr. 1948. 280.9 Am327
- 41191 TRABERG, J. Denmark's exports of dressed poultry. *Danish Foreign Off. J.* 1948(4): 13-15. Oct./Dec. 1948. 286.8 D22
- 41192 TYSZYNSKI, H. Economics of the [International] Wheat Agreement. *Economica* (n. s.) 16(61): 27-39. Feb. 1949. 280.8 Ec73
- 41193 UNITED NATIONS. SECRETARIAT. DEPT. OF ECONOMIC AFFAIRS. Balances of payments, 1939-1945. Geneva, 1948. 207 p. (United Nations. Pub. 1947. II. 1) 286 Un3952
- 41194 U. S. CONGRESS. SENATE. COMMITTEE ON BANKING AND CURRENCY. Extension of export controls. Hearings, 81st Cong., 1st sess. on S. 548, a bill to extend export controls, Jan. 28, Feb. 1, 2, and 3, 1949. Washington, 1949. 234 p.
- 41195 WILHELM, J. Is Argentina looking for new meat outlets? *Food Indus.* 21: 318-319. Mar. 1949. 389.8 F737
- 41196 WILLIAMS, T. R. What will Russia do with China's tung oil? *Tung World* 4: 8. Jan. 1949. 77.8 T83

#### FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

#### GENERAL

- 41197 ABRAHAMS, A. The nutrition of athletes. *Brit. J. Nutr.* 2: 266-269. 1948. 389.8 B773
- 41198 APPLEYARD, P. No time for breakfast? *Pract. Home Econ.* 27: 154-156. Mar. 1949. 321.8 H752
- 41199 BEEUWKES, A. M. The dietitian and her community. *Amer. Dietet. Assoc. J.* 24: 974, 976. Nov. 1948. 389.8 Am34
- 41200 BOURNE, G. H. Vitamins and muscular exercise. *Brit. J. Nutr.* 2: 261-263. Ref. 1948. 389.8 B773
- 41201 BOYLE, E. J. Problems in dietary departments in state hospitals. *Amer. Diet. Assoc. J.* 25: 242, 244. Mar. 1949. 389.8 Am34
- 41202 BRAESTRUP, P. W. The worst faults in child nutrition. (In Danish.) *Tidsskr. for Husholdning* 28: 13-14. Feb. 9, 1949. 321.8 T43
- 41203 BRANSBY, E. R., DAUBNEY, C. G., and KING, J. Comparison of nutrient values of individual diets found by calculation from food tables and by chemical analysis. *Brit. J. Nutr.* 2: 232-236. 1948. 389.8 B773
- 41204 BRIWA, K. Modern meat cookery. *Maine. Agr. Col. Ext. C.* 242, 4 p. Jan. 1948. 275.29 M281C
- 41205 CAMARA, A. DE A. Nutrition in the São Francisco Basin. (In Portuguese.) *Lavoura* 52: 27-28. July/Aug. 1948. 9.2 L39
- 41206 CAMPOS, F. A. DE M. The problem of proteins. (In Portuguese.) *Arq. Bras. de Nutr.* 5(2): 5-42. Ref. Mar./Apr. 1948. 389.8 Ar6  
Summary in English and French.  
Protein content of Brazilian foods.
- 41207 CANNON, P. R. Changing concepts of protein utilization in nutrition. *Amer. Dietet. Assoc. J.* 24: 937-938. Nov. 1948. 389.8 Am34
- 41208 CARR, R. B. Vegetable soybeans. *Miss. Agr. Expt. Sta. Inform. Sheet* 415, 2 p. Dec. 1948. 100 M69In  
Utilization as human food.
- 41209 COFER, E. Main dishes at low cost. *W. Va. Agr. Col. Ext. Good Living Ser.* 16, Today's Family Trains Tomorrow's Citizens, Lesson 3, 6 p. 1948? 275.29 W522G
- 41210 CUNHA, M. DA. Utilization of the soybean in Brazilian nutrition. (In Portuguese.) *Lavoura* 52: 48-56. Ref. July/Aug. 1948. 9.2 L39
- 41211 DARBY, H. H. Problems in high-altitude nutrition. *Mech. Engin.* 71: 148-149. Feb. 1949. 291.9 Am3J
- 41212 DAUM, K., and others. Influence of various levels of thiamine intake on physiologic response. *Amer. Dietet. Assoc. J.* 24: 945-952. Nov. 1948. 389.8 Am34  
W. W. Tuttle, M. Wilson, H. Rhodes, and M. Osborne, joint authors.
- 41213 DAVEL, J., and JONXIS, J. H. P. The optimal content of protein in the diet of children 2 to 7 years. (In Dutch.) *Voeding* 9: 244-248. Nov. 15, 1948. 389.8 V85  
English and French summaries.
- 41214 DORAISWAMI, S., and YUDKIN, J. Deficiency of vitamin A in university students. *Brit. Med. J.* 4580: 708-710. Oct. 16, 1948. 448.8 B77
- 41215 DYAR, E., and CASSEL, E. Mile-high cakes; recipes for high altitudes. *Colo. Agr. Expt. Sta. Tech. B.* 40, 32 p. Ref. Nov. 1948. 100 C71S  
Issued also as *Colo. Agr. Col. Ext. B.* 404-A, 27 p. Dec. 1948. 275.29 C71E
- 41216 FISCHER, F. P. Food and eye surgery. (In Dutch.) *Voeding* 9: 250-254. Ref. Dec. 15, 1948. 389.8 V85
- 41217 GOODELL, M. Nutrition for children. *Pract. Home Econ.* 27: 153, 172. Mar. 1949. 321.8 H752
- 41218 GREAT BRITAIN. MINISTRY OF FOOD. How to feed young children. Bristol, 1948? 18 p. 389.25 G792H  
Includes recipes.
- 41219 HARTOG, C. DEN, and SCHAIK, T. F. S. M. VAN. Survey of the customary methods of nutrition education. II-III. (In Dutch.) *Voeding* 9: 280-285; 10: 23-31. Ref. Dec. 15, 1948, Jan. 15, 1949. 389.8 V85  
English and French summary.
- 41220 HEINILD, S. Pediatrics. In *The humanities and the sciences in Denmark*, p. 519-523. Copenhagen, E. Munksgaard, 1948. 330 H882  
Includes discussion of importance of vitamins K and D in child nutrition.
- 41221 HELMHOLZ, H. F., and LATSKY, J. M. Report on nutrition and health aspects in six UNICEF [United Nations International Children's Emergency Fund] countries in Europe. *United Nations Econ. and Social Council. [Documents] E/ICEF/78*, 53 p. Oct. 15, 1948. 280.9 Un3653
- 41222 IGNATIUS, J. G. W., and WIT, W. DE. The supply of vitamin C by consumption of potatoes, vegetables, and fruit in the years 1946 and 1947. (In Dutch.) *Voeding* 9: 254-262. Dec. 15, 1948. 389.8 V85  
English and French summary.
- 41223 JANSEN, B. C. P. Food problems in connection with human requirements. (In Dutch.) *Voeding* 10: 1-7. Jan. 15, 1949. 389.8 V85
- 41224 KECK, G. Nutrition and the "basic seven." *San Luis Val. Farmer & Stockman* 3(5): 8-9. Jan. 1949. 6 Sa52
- 41225 KRAUT, H. Eiweissernährung und leistungsfähigkeit. *Angew. Chem. Ausg. A.* 60: 85-88. Apr. 1948. 384 Z33
- 41226 LEYTON, R. N. A. Some practical aspects of the nutrition of athletes. *Brit. J. Nutr.* 2: 269-271. 1948. 389.8 B773
- 41227 LYNN, B. A better American diet—the cattleman's aim. *Polled Hereford Mag.* 6(10): 26-29. Mar. 1949. 49 P69
- 41228 MCDILL, J. Breads. *Clemson Agr. Col. S. C. Ext. C.* 68, 4 p. 1948. 275.29 C59C
- 41229 MCDILL, J. Breads for breakfast. *Clemson Agr. Col. S. C. Ext. C.* 64, 4 p. 1948. 275.29 C59C
- 41230 MCDILL, J. Food, nutrition, and health; biscuit and biscuit doughs. *Clemson Agr. Col. S. C. Ext. C.* 75, 6 p. 1948. 275.29 C59C



- 41231 MCDILL, J. Food, nutrition, and health; muffins. *Clemson Agr. Col. S. C. Ext. C. 74*, 6 p. 1948. 275.29 C59C
- 41232 MCDILL, J. Fruits for breakfast. *Clemson Agr. Col. S. C. Ext. C. 60*, 3 p. 1948. 275.29 C59C
- 41233 MCDILL, J. Meat cookery. *Clemson Agr. Col. S. C. Ext. C. 72*, 6 p. 1948. 275.29 C59C
- 41234 MCDILL, J. Meats for dinner. *Clemson Agr. Col. S. C. Ext. C. 67*, 4 p. 1948. 275.29 C59C
- 41235 MCDILL, J. Milk and milk cookery. *Clemson Agr. Col. S. C. Ext. C. 71*, 8 p. 1948. 275.29 C59C
- 41236 MCDILL, J. Vegetables for dinner. *Clemson Agr. Col. S. C. Ext. C. 66*, 4 p. 1948. 275.29 C59C
- 41237 MCDILL, J. Your family's food in relation to health and cost. *Clemson Agr. Col. S. C. Ext. C. 70*, 6 p. 1948. 275.29 C59C
- 41238 MCGAVRAN, E. G. Public health and nutrition. (Abs.) *N. C. Bd. Health. Health B. 63(12)*: 3-5. Dec. 1948. 449.7 N81B
- 41239 MCMUNN, R. L. Fruit diet—1800 style. *Amer. Fruit Grower 69(2)*: 48-49. Feb. 1949. 80 G85
- 41240 MOSSEL, D. A. A. The new American rules for optimal nutrition. (In Dutch.) *Voeding 9*: 285-288. Dec. 15, 1948. 389.8 V85  
English summary.
- 41241 OLDHAM, H. Dietary needs of special age groups. *Milk Dealer 38(5)*: 45-46, 118, 120, 122. Ref. Feb. 1949. 44.8 M595
- 41242 ORTH, G. L. Food requirements in the Arctic Regions. *Mil. Surg. 104*: 204-206. Mar. 1949. 448.8 M59
- 41243 PASSMORE, R. Nutrition and health of children in five countries of South America. 3. Bolivia. *Lancet [London] 256*: 362-363. Feb. 26, 1949. 448.8 L22
- 41244 POULTRY AND EGG NATIONAL BOARD. Chicken every Sunday; 12 delicious chicken recipes. Chicago, 1948? 16 p. 389.25 P862Ch
- 41245 ROBINSON, W. D. Nutrition and arthritis. *Nutr. Revs. 7*: 33-35. Feb. 1949. 389.8 N953
- 41246 SCHULTZ, H. W. Meats for little tots build strength & health and disprove old ideas. *Natl. Live Stock Prod. 27(6)*: 28, 31. Mar. 1949. 280.38 N21
- 41247 SIMMONDS, R. The training and work of dietitians. *Voeding 10*: 20-23. Jan. 15, 1949. 389.8 V85
- 41248 SMITH, A. K. Oriental uses of soybeans as food. II. China. *Soybean Digest 9(5)*: 26-28, 30, 32, 34. Mar. 1949. 60.38 So9
- 41249 THIESSEN, E. J. High altitude vegetable cookery. *Wyo. Agr. Expt. Sta. B. 288*, 39 p. Feb. 1949. 100 W99
- 41250 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes using tomato paste. Washington? 1948. 3 p. 1.982 A2Sch66
- 41251 WILSON, M., and others. Influence of various levels of thiamine intake on physiologic response. V. *Amer. Diet. Assoc. J. 25*: 221-225. Ref. Mar. 1949. 389.8 Am34  
W. W. Tuttle, K. Daum, and H. Rhodes, joint authors.
- 41252 WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Meats in our meals. *Wis. Agr. Col. Ext. C. 4-H 61*, 24 p. Oct. 1948. 275.29 W75Cf  
Meal planning and recipes.
- FOOD HABITS
- 41253 BLANCHARD, E. L. Food habits in New Mexico. *Nutr. News 12*: 11. Feb. 1949. 389.8 N957
- 41254 COOK, R. P. The dietary intake of a class of students. *Brit. Med. J. 4580*: 711. Oct. 16, 1948. 448.8 B77
- NUTRITIVE AND VITAMIN CONTENT
- 41255 BATHURST, N. O. Vitamin B content of meat cuts. *New Zeal. Dept. Sci. and Indus. Res. Plant Chem. Lab. P. 27*: 72-74. 1948. 385 N483
- 41256 BUSS, L. W., and GODDARD, V. R. Effect of heat upon the nutritive values of peanuts. I. Protein quality. *Food Res. 13*: 506-511. Ref. Nov./Dec. 1948. 389.8 F7322
- 41257 CALLISON, E. C., BEAR, J. E., and ORENT-KEILES, E. The effect of cooking on some nutrients in soy grits. *Amer. Dietet. Assoc. J. 24*: 966-970. Ref. Nov. 1948. 389.8 Am34
- 41258 CARSON, B. L. Interpreting assay reports on your vitamin D milk. *Milk Dealer 38(5)*: 41, 114, 116. Feb. 1949. 44.8 M595
- 41259 CHICK, H., and SLACK, E. B. Further observations on the nutritive value of the proteins contained in wheat flours of different extraction rates. *Brit. J. Nutr. 2*: 205-213. Ref. 1948. 389.8 B773
- 41260 COFER, E. Vitamin C in family meals. *W. Va. Agr. Col. Ext. Good Living Ser. 16*, Today's Family Trains Tomorrow's Citizens, Lesson 2, 6 p. 1948? 275.29 W522G
- 41261 DAHLBERG, A. C. Ice cream—a nutritious food. *Ice Cream Rev. 32(7)*: 34, 76, 78, 80, 82. Feb. 1949. 389.8 Ic22
- 41262 DRÖGEMÜLLER. Pflückerbse oder trocken-erbse. *Gartenbauwirtschaft [Hannover] 1*: 1-2. Apr. 3, 1948? 389.8 G19  
Includes nutritive value.
- 41263 DUNN, K. R., and GODDARD, V. R. Effect of heat upon the nutritive values of peanuts. II. Riboflavin and pantothenic acid content. *Food Res. 13*: 512-517. Ref. Nov./Dec. 1948. 389.8 F7322
- 41264 FAGER, E. E. C., and others. Folic acid in vegetables and certain other plant materials. *Food Res. 14*: 1-8. Ref. Jan./Feb. 1949. 389.8 F7322  
O. E. Olson, R. H. Burris, and C. A. Elvehjem, joint authors.
- 41265 FEASTER, J. F., TOMPKINS, M. D., and PEARCE, W. E. Effect of storage on vitamins and quality in canned foods. *Food Res. 14*: 25-39. Ref. Jan./Feb. 1949. 389.8 F7322
- 41266 FINCKE, M. L., and others. Ascorbic acid content of foods as served. *Amer. Dietet. Assoc. J. 24*: 957-962. Nov. 1948. 389.8 Am34  
M. A. McGregor, C. A. Storvick, and E. Woods, joint authors.
- 41267 GIOVANNI. Kalorien unserer nahrungsmittel. *Kleingärt. u. Siedler 2*: 109. Sept. 1948. 80 K67
- 41268 GROOT, E. H., and LINDEN, A. C. VAN DER. The food value of potato protein. (In Dutch.) *Voeding 10*: 18-19. Jan. 15, 1949. 389.8 V85  
English summary.
- 41269 GUERRANT, N. B. Concerning the nutritive value of breads. *Science 109*: 264. Mar. 11, 1949. 470 Sci2
- 41270 HANNAY, M. T. Dairy products in community nutrition. *Wash. State Col. Inst. Dairying Proc. 17*: 72-74. 1948. 44.9 W27
- 41271 HANNING, F., and MITTS, M. L. Effect of cooking on the folic acid content of eggs. *Amer. Diet. Assoc. J. 25*: 226-228. Mar. 1949. 389.8 Am34
- 41272 HARTZLER, F., ROSS, W., and WILLETT, E. L. Thiamin, riboflavin, and niacin content of raw and cooked pork from grain-fed and garbage-fed pigs. *Food Res. 14*: 15-24. Ref. Jan./Feb. 1949. 389.8 F7322
- 41273 HATHAWAY, M. L. Nutritive value of school meals. *Nutr. News 12*: 9. Feb. 1949. 389.8 N957
- 41274 HINTON, J. J. C. The distribution of vitamin B<sub>1</sub> in the rice grain. *Brit. J. Nutr. 2*: 237-241. 1948. 389.8 B773
- 41275 HONIG, P. Vitamins in sugarcane and sugarcane products. (In Dutch.) *Chron. Nat. 104*: 303-306. Nov. 1948. 514 B31
- 41276 JACOBSEN, E. Vitamins. In *The humanities and the sciences in Denmark*, p. 411-417. Ref. Copenhagen, E. Munksgaard, 1948. 330 H882
- 41277 JAFFE, W. El valor alimenticio del ajonjolí. II. La complementación mutua de las proteínas del maíz y del ajonjolí. *Venezuela. Dept. de Genet. C. 30*, 15 p. July 1947. 64.9 V55  
English summary.
- 41278 JENTSCH, M. S., and MORGAN, A. F. Thiamin, riboflavin, and niacin content of walnuts. *Food Res. 14*: 40-53. Ref. Jan./Feb. 1949. 389.8 F7322
- 41279 KESTING, W. Untersuchungen über den vitamin C-gehalt des maulbeerlaubes. *Angew. Chem. Ausg. A. 60*: 42-44. Feb. 1948. 384 Z33
- 41280 KOHMAN, E. F., and RUGALA, A. A. Development of thiamin in cooking sweet potatoes. *Food Res. 14*: 72-76. Jan./Feb. 1949. 389.8 F7322



- 41281 KUMETAT, K. Der eiweissgehalt von grungs-molkengetrnken. *Milchwissenschaft* 4: 53-55. Ref. Feb. 1949. 44.8 M5933  
Summary in English.
- 41282 LANZA, F. The chestnut; value of the fruit and its disinfection. (In Italian.) *Italia Agr.* 86: 64-68. Jan. 1949. 16 It1
- 41283 LEASE, E. J., and RILEY, H. Is the enrichment program here to stay? *J. Home Econ.* 41: 140-142. Mar. 1949. 321.8 J82  
Corn and rice.
- 41284 LEIPOLDT, C. L. Wine and milk. *Wine & Spirit* 18(2): 18-20. Feb. 1949. 390.8 W725  
Food value.
- 41285 LUK'ANOV, M. I., and KAGAN, R. S. Vitamin C and carotene content in vegetables of the gourd family. (In Russian.) *Sad i Ogorod* 1948(7): 63-64. July 1948. 87 Sa1
- 41286 LYMAN, C. M., and KUIKEN, K. A. The amino acid composition of meat and some other foods. *Tex. Agr. Expt. Sta. B.* 708, 31 p. Ref. Jan. 1949. 100 T31S
- 41287 MCCANCE, R. A., and GLASER, E. M. The energy value of oatmeal and the digestibility and absorption of its proteins, fats and calcium. *Brit. J. Nutr.* 2: 221-228. Ref. 1948. 389.8 B773
- 41288 MCINROY, E. E., MURER, H. K., and THIESSEN, R., JR. The effect of autoclaving with dextrose on the nutritive value of casein. *Arch. Biochem.* 20: 256-260. Feb. 1949. 381 Ar2
- 41289 MERRILL, A. L., and WATT, B. K. Physiologic energy values of wheat. *Amer. Dietet. Assoc. J.* 24: 953-956. Nov. 1948. 389.8 Am34
- 41290 PEREIRA, M. DE L. S. Energy, vitamin, and mineral value of vegetables consumed in Lisbon. (In Portuguese.) *Portugal. Junta Nac. das Frutas. B.* 8: 372-387. 1948. 286.3939 P83  
Summary in English and French.
- 41291 PETERSON, J. B. Restoring nutritional values with natural substances. *Food Indus.* 21: 300-302. Mar. 1949. 389.8 F737
- 41292 PRESSLY, H. Influence of cooking on ascorbic acid content of collards. *Food Res.* 13: 491-496. Ref. Nov./Dec. 1948. 389.8 F7322
- 41293 PYKE, M. Sausages and nutrition. (Sum.) *Chem. and Indus.* 1949: 74. Jan. 29, 1949. 382 M31C
- 41294 SCHNEIDER, H. A. Relation of a specific nutrient in wheat to natural resistance to infection. *Amer. Assoc. Cereal Chem. Trans.* 7: 4-10. Jan. 1949. 59.9 Am3T
- 41295 SCHULZ, J. A., and THOMAS, B. H. The biological value of some commercial corn protein fractions. *Cereal Chem.* 26: 60-66. Ref. Jan. 1949. 59.8 C33
- 41296 SCHULZ, J. A., and THOMAS, B. H. The biological value of the proteins of corn germ and endosperm wet-milled experimentally. *Cereal Chem.* 26: 67-71. Ref. Jan. 1949. 59.8 C33
- 41297 SCHWEIGERT, B. S. Amino acid content of foods. *Amer. Dietet. Assoc. J.* 24: 939-944. Ref. Nov. 1948. 389.8 Am34
- 41298 SEBRELL, W. H. Nutritional reasons for enrichment. *Bakers Weekly* 141(10): 53-55. Mar. 7, 1949. 389.8 B172
- 41299 SEGARD, C. P. The value of milk in human nutrition. *South. Dairy Prod. J.* 45(3): 114-115, 130, 132, 136, 138. Mar. 1949. 44.8 So83
- 41300 SLACK, E. B. The composition and nutritive value of the protein and non-protein nitrogenous constituents of potato and wheat. *Cambridge. U. Abs. Diss.* 1946/47: 17-18. 1948. 241.8 C14
- 41301 SPOON, W., and SESSELER, W. M. Parboiled rice in Surinam. (In Dutch.) *Voeding* 9: 239-244. Nov. 15, 1948. 389.8 V85  
English summary.
- 41302 STENGER, K. Versuche zum eiweissproblem der gegenwart. Die verwendung von holzzuckerhefe in der menschlichen ernhrung. *Klin. Wchnschr.* 26: 236-239. Ref. Apr. 15, 1948. 448.8 K68
- 41303 STRACHAN, C. C. Tree fruits' health values research financed by B.C.F.G.A. [British Columbia Fruit Growers' Association] brings results; probe into unknown values planned. *Country Life [Vernon]* 33: 6, 34. Jan. 1949. 7 C832  
Effect of tree health on nutritive value of fruit.

- 41304 WHITACRE, J., FRAPS, G. S., and YARNELL, S. H. Comparison of some nutrients and yield of four varieties of turnip greens. *Amer. Diet. Assoc. J.* 25: 229-235. Mar. 1949. 389.8 Am34

## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 41305 AGENDA des agriculteurs et des industries agricoles, 55th, 1949. 1948? 160 p. 14 Ag33  
France
- 41306 ARNAUDI, C. Elementi di microbiologia generale ed applicata alle fermentazioni [Elements of general microbiology and its application to fermentation]. Ed. 3. Milano, Casa Editrice Ambrosiana, 1948. 809 p. 448.2 Ar6
- 41307 BRITISH COLUMBIA. DEPT. OF AGRICULTURE. Annual report 1948. 1949. 228 p. 7 B77R
- 41308 BUCHSBAUM, R. M. Animals without backbones. Rev. ed. Chicago, Univ. of Chicago Press, 1948. 405 p. 411 B85
- 41309 CAROLINE, M. Rat control. *Canad. Milling & Feed* 30(3): 26, 28-29. Mar. 1949. 298.8 C162
- 41310 CAULLERY, M. J. G. C. Les tapes de la biologie. Ed. 6. Paris, Presses Universitaires de France, 1948. 128 p. ("Que Sais-je?" Le Point des Connaissances Actuelles. 1) 442 C31E
- 41311 CHISHOLM, A. H. The farmer's feathered friends. Land [Sydney] (Farm & Sta. Ann): 1928: 8-9. Oct. 20, 1948. 23 L22  
Conservation in Australia.
- 41312 COMBER, N. M., JONES, H. T., and WILLCOX, J. S. An introduction to agricultural chemistry. London, Arnold, 1948. 315 p. 395 C73
- 41313 THE FARMERS' diary, 65, 1949. Christchurch, N. Z., 1949. 64 p. 23 F228
- 41314 GABRIELSON, I. N. Twilight for wildlife? Washington, U. S. D. A. Grad. School, 1949. 10 p. 1.984 T92
- 41315 GRAND, E. F. Predator control. *Mont. Wool Grower* 23(3): 12-13. Mar. 1949. 45.8 M762
- 41316 GREEN, D. D. Rats and robbers. *Irrig. Farmer* 6(8): 4, 11. Dec. 2, 1948. 55.8 Ir78
- 41317 GUSTAFSON, A. F., and others. Conservation in the United States. Ed. 3. Ithaca, N. Y., Comstock, 1949. 534 p. 279.12 G97  
C. H. Guise, W. J. Hamilton, Jr., and H. Ries, joint authors.  
"Selections for supplementary reading": p. 513-520.
- 41318 HUTSON, R. How to store orchard chemicals. *Amer. Fruit Grower* 69(2): 19, 50-52. Feb. 1949. 80 G85
- 41319 JACKSON, G. P. Evolution of the PCO. 2. *Pests* 17(3): 44, 47. Mar. 1949. 449.8 Ex8
- 41320 JENSEN, M. Rats and culture. (In Danish.) *Dansk Landbr.* 68: 48-49. Jan. 27, 1949. 280.28 V91
- 41321 KALENDAR' kolkhoznika na 1949 god [Collective farmer's almanac for 1949]. Moskva, Sel'khozgiz, 1948. 99 p. 30.8 K12
- 41322 LA VIE AGRICOLE. Le livre des veilles. *Vie Agr.* 108, sup., 240 p. 1948? 14 A164  
An almanac.
- 41323 LUJN ALVARADO, J. M. Departamento Estadistica y Economia Agricola, Ministerio de Agricultura e Industrias; orientacin. *Suelo Tico* 1: 144-148. Sept. 1948. 8 Su2
- 41324 MANNING, S. A. The right way to understand the countryside. Kingswood, Surrey, Elliot, 1948. 116 p. (Right Way Books) 409 M312  
Chapters on flora, insects, and folklore.
- 41325 MAURITIUS. DEPT. OF AGRICULTURE. Annual report, 1947. Port Louis, 1948. 73 p. 24 M443A
- 41326 MEDICI, G. The duty of technicians. (In Italian.) *Glor. di Agr.* 59: 33. Jan. 30, 1949. 16 It1G



41327 NICHOLSON, A. The atom goes to work for farmers. *Agr.-Com.-Indus. Life* 10(12): 6, 39. Dec. 1948. 25 Ag8

41328 NOWAK, W. Leistungssteigerung der teichwirtschaft. *Kurzbriefe f. Ernährung u. Landw.* 11: A IV 5, 2 p. Nov. 1948. 281.8 K96

41329 ODERKIRK, G. C. Scat, rat! *Breeder's Gaz.* 114: 27. Jan. 1949. 49 B74

41330 OHIO. DEPT. OF AGRICULTURE. Annual report 1948. 1949. 102 p. 2 Oh35

41331 ONTARIO. MINISTER OF LANDS AND FORESTS. Report, 1947/48. 1949. 109 p. 253.6 L23

41332 OREGON. DEPT. OF AGRICULTURE. Biennial report 1946-1948. 1948. 77 p. 2 Or3B

41333 PALMER, E. L. Fieldbook of natural history. New York, Whittlesey House, 1949. 664 p. 409 P18

41334 REICHMUTH, W. Über einige gegenwartsfragen in der rattenbekämpfung. *Anz. f. Schädlingssk.* 21: 11-14. Apr. 1948. 421 An9

41335 RETTIE, J. C. We have just arrived upon this earth: how long will we stay? *U. S. Forest Serv. Personnel Training Ser.* 21, 5 p. Mar. 26, 1948. 1.9621 R7P43

Conservation of natural resources.

41336 RYDER, E. Death on the wing. *Cornell Countryman* 46(5): 12. Feb. 1949. 6 C81

Biological warfare targets—man, livestock and crops.

41337 SERGENT, E., and SERGENT, É. Le D. D. T. peut servir à la destruction de rongeurs nuisibles (souris, rats d'égout, mérions). *Acad. d'Agr. de France. Compt. Rend.* 34: 954-960. Dec. 8/22, 1948. 14 P215Bc

41338 SOUTHERN Farmer almanac 1949. 1948? 47 p. 30.3 So82

41339 STEVENIUS-NIELSEN, H., ed. Technical chemistry. In *The humanities and the sciences in Denmark*, p. 611-660. Copenhagen, E. Munksgaard, 1948. 330 H882

Partial contents: Wood preservation, by A. Blichfeldt-Petersen, p. 614; Paper and cellulose, by E. F. Kruse, p. 619; Dyes, varnishes, lacquers, and plastics, by K. Christensen, p. 624-625; Rubber, by T. Grenness, p. 625-626; Tannins, by J. S. Aabye, p. 626; Fertilizers and inorganic products, by B. Carlsen, p. 626-627; Sugar and starch, by A. Brieghel-Müller, p. 627-628; Fermentation industries and manufacture of bread, by H. Jørgensen, p. 628-633; Canning of food, by M. Jul, p. 633-634; Various foods and stimulants, by K. Hofgaard, p. 634-636; Means of controlling noxious animals, by O. E. Jensen, p. 636.

41340 TENNESSEE. DEPT. OF AGRICULTURE. Farming and progress; biennial report, 37th, 1947-1948. 1948? 518 p. 2 T25R

41341 TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Feed people not rats! *Tex. Agr. Col. Ext. L-81*, 8 p.-folder. June 1948. 275.29 T313

41342 U. S. COMMISSION ON ORGANIZATION OF THE EXECUTIVE BRANCH OF THE GOVERNMENT. Department of Agriculture; a report to the Congress, February 1949. Washington, 1949. 41 p. 173 Or3R

41343 U. S. COMMISSION ON ORGANIZATION OF THE EXECUTIVE BRANCH OF THE GOVERNMENT. Task force report on agriculture activities (Appendix M), January 1949. Washington, 1949. 112 p. 173 Or3R  
Prepared by a committee under the chairmanship of H. P. Rusk and G. H. Collingwood.

41344 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Annual report [Department of Agriculture] highlights, by E. Moore and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

41345 U. S. NATIONAL COMMITTEE FOR RAT CONTROL. Final report. Washington, 1948. 18 p. 156.1 M812

41346 U. S. SOIL CONSERVATION SERV. Teaching conservation through present school subjects, by W. W. Reitz. Upper Darby, 1948? 5 p. 1.9601 T225  
Conservation of natural resources.

41347 WEST, G. B. Spare the owls and hawks. *Successful Farming* 47(3): 146-148. Mar. 1949. 6 Su12

#### HISTORY AND BIOGRAPHY

41348 ABRAMS, L. Alice Eastwood—western botanist. *Pacific Discovery* 2: 14-17. Jan./Feb. 1949. 500 P112

41349 ADAMS, W. G. S. Pioneer in agricultural co-operation; Horace Plunkett, 1854-1932. *Young Farmer* 17: 3-4. Jan./Feb. 1949. 10 Y8

Sixth in a series on great men in agriculture.

41350 ANDER, K. N. A. Kemner. In memoriam. (In Swedish.) *Opuscula Ent.* 13: 101-114. 1948. 421 Op7  
Bibliography, compiled by P. Brinck, p. 108-114.

41351 BALDUF, W. V. Clell Lee Metcalf, 1888-1948. *J. Econ. Ent.* 41: 997-998. Dec. 1948. 421 J822

41352 BEEKEEPER of the month, David Dunavan. *South Beekeeper* 3(1): 4, 18. Jan. 1949. 424.8 So83

41353 BEEKEEPER of the month, Lloyd C. Gardner. *South. Beekeeper* 2(12): 11. Dec. 1948. 424.8 So83

41354 BOWMAN, F. F. Why Wisconsin. Madison, Wis., 1948. 210 p. 277.097 B68  
Agricultural history.

41355 BRAZELTON, J. S. Washington, first of all a farmer. *Mo. Ruralist* 90(3): 14. Feb. 12, 1949. 6 R8891

41356 BRIERLEY, W. B. Prof. John Percival. *Nature [London]* 163: 275. Feb. 19, 1949. 472 N21

41357 BUCKMAN, H. O. James Kenneth Wilson, 1881-1948. *Soil Sci.* 67: 1-2. Jan. 1949. 56.8 So3

41358 CATTO, G. A. Tale of a grandfather. *Scot. Agr.* 28: 130-137. Winter 1948/49. 10 Sco82So  
Agricultural history in Scotland.

41359 COHN, V. Wheat-doctor Stakman: famine's worst enemy. *Science Illus.* 4(4): 38-40, 64. Apr. 1949. 470 Sci292

41360 DEBRAY, M. Irénée Thériot, 1859-1947. *Rev. Bryologique et Lichénologique (n. s.)* 17: 5-6. 1948. 450 R325

41361 EYER, J. R. Fabian Garcia, 1871-1948. *J. Econ. Ent.* 41: 1000-1001. Dec. 1948. 421 J822

41362 FRASER, F. C. Obituary: Colbran Joseph Wainwright, F. R. E. S. *Ent. Monthly Mag.* 85: 49-50. Feb. 1949. 421 En86

41363 FUSSELL, G. E. The three ages; being a brief account of the highlights in British agriculture. *Farmers Weekly [London]* 29(27): 37-39. Dec. 31, 1948. 10 F2226

41364 GARRETT, S. D. Dr. M. C. Rayner. *Nature [London]* 163: 275-276. Feb. 19, 1949. 472 N21

41365 GEIGY COMPANY, INC. Geigy scientist wins Nobel prize. New York, 1948. 6 p. 423 G27G  
Paul Herman Müller, discoverer of DDT.

41366 GERASIMOV, I. P., IVANOVA, E. N., and PETROV, B. F. Jubilee of professor K. P. Gorshenin. (In Russian.) *Pochvovedenie* 1948: 526-527. Aug. 1948. 57.8 P34

41367 GUNN, G. D. Rancho Santa Rosa. *South. Calif. Rancher* 14: 12. Jan. 1949. 6 So831  
History of the ranch.

41368 HANNIBAL, H. U. 150 Jahre rationelle Landwirtschaft in Deutschland — forschergeist gegen bauernweisheit. *Allgäuer Bauernbl.* 16: 338-339. Dec. 24, 1948. 18 AL53  
A brief account of the achievements of Albrecht Daniel Thaer.

41369 HIGMAN, H. W. The man of grass [David Douglas]. *Nature Mag.* 42: 138, 144. Mar. 1949. 409.6 N214

41370 INCHAUSPE, P. Orígenes de la agricultura en el campo argentino. *Pampa Argentina* 22(256): 26-28. Dec. 1948. 9 P19

41371 KHOKHLOV, V. N. In memoriam of Peter Ivanovich Lisitsyn. (In Russian.) *Agrobiologiya* 1948 (3): 155-158. May/June 1948. 20 Ag822

41372 KING, C. J. The first fifty years of agriculture in New South Wales. *Rev. Mktg. Agr. Econ.* 16: 503-551. Ref. (Cont.) Oct. 1948. 286.8 N47M

41373 KLECHKOVSKIĬ, V. M. Academician D. N. Prfänishnikov. (In Russian.) *Sovet. Agron.* 6(7): 32-41. July 1948. 20 So84

41374 KUNHENN, P. Von der urwaldrodung zum garten; aus der völkerrunde des bauernturns. *Kosmos* 44: 153-159. June 1948. 474 K842

41375 LIEBERMANN, J. C. Willemse, el ortoptero logo de Holanda. (Abs.) *Soc. Ent. Argentina Rev.* 14: 160-161. Oct. 25, 1948. 420 So14

41376 MULDER, E. G. Prof. Dr. C. de Vries. *Plant & Soil* 1: 213-214. Jan. 1949. 450 P696

41377 OLIVA, M. The renaissance of Tuscan power according to artists of 1300 and 1400. (In Italian.) *Humus* 4(12): 7-11. Dec. 1948. 16 H88  
Agriculture.



41378 PHILLIPS, E. F. A biography of Langstroth. III. Amer. Bee J. 89: 134. Mar. 1949. 424.8 Am3  
41379 POTIER DE LA VARDE, R. Irénée Thériot (21 décembre 1859—25 mars 1947). Rev. Bryologique et Lichénologique (n. s.) 17: 7-14. 1948. 450 R325  
Includes list of his publications.

41380 REMEZOV, N. P. On the 40th anniversary of professor V. V. Gemmerling's scientific and pedagogical activities. (In Russian.) Pochvovedenie 1948: 458-460. July 1948. 57.8 P34

41381 REMINGTON, J. E. Brief biographies. 16. Ferdinand Heinrich Herman Strecker (1836-1901). Lepidopterists' News 2: 98. Nov. 1948. 421 L554

41382 RODGERS, A. D. Liberty Hyde Bailey; a story of American plant sciences. Princeton, N. J., Princeton U. Press, 1949. 506 p. 120 B15R

41383 SIEBERT, K. Was lehrt uns Görbings lebenswerk? Neue Mitt. f. die Landw. 3: 366-367. Nov. 5, 1948. 18 N39  
Johannes Görbing.

41384 SOBOLEV, S. S. First Russian professor of agriculture, M. I. Afonin. (In Russian.) Sovet. Agron. 6(7): 94-96. July 1948. 20 So84

41385 U. S. LIBRARY OF CONGRESS. An exhibition commemorating the settlement of Georgia 1733-1948. Washington, U. S. Govt. Print. Off., 1948. 92 p. 138 Un32G

Contains bibliographical material on agriculture.

41386 VAN DINE, D. L., and HOYT, A. S. Ulphian Carr Loftin, 1890-1946. J. Econ. Ent. 41: 999-1000. Dec. 1948. 421 J822

41387 WATERS, C. E. Early years of Maxon in Washington. Amer. Fern J. 38: 117-122. Oct./Dec. 1948. 450 Am35

41388 WEATHERBY, C. A. William R. Maxon. Amer. Fern J. 38: 98-105. Oct./Dec. 1948. 450 Am35

41389 WELCH, W. H. Doctor Abel Joel Grout. Rev. Bryologique et Lichénologique (n. s.) 17: 15. 1948. 450 R325

41390 WHICHER, L. S. Obituary: H. W. Bell-Marley. Ent. Monthly Mag. 85: 49. Feb. 1949. 421 En86

#### HOME MANAGEMENT

41391 BRYAN, M. E. Christmas gift ideas for 1948. S. Dak. State Col. Agr. Ext. C. 438, 22 p. Oct. 1948. 275.29 So85

41392 CHURCH, H. L. Learning to sew; first-year 4-H clothing. Ariz. Agr. Col. Ext. C. 145, 23 p. Oct. 1948. 275.29 Ar42

41393 CRAVEN, R. Better arrangement of my [bed] room. Clemson Agr. Col. S. C. Ext. C. 51, 4 p. 1948. 275.29 C59C

41394 CRAVEN, R. Better care of the bedroom. Clemson Agr. Col. S. C. Ext. C. 52, 4 p. 1948. 275.29 C59C

41395 CRAVEN, R. Better dishwashing. Clemson Agr. Col. S. C. Ext. C. 58, 4 p. 1948. 275.29 C59C

41396 CRAVEN, R. How do I use my time? Clemson Agr. Col. S. C. Ext. C. 57, 4 p. 1948. 275.29 C59C

41397 CRAVEN, R. Save time and motion through storage. Clemson Agr. Col. S. C. Ext. C. 83, 4 p. 1948. 275.29 C59C

41398 CRAVEN, R. Save your time and motion. Clemson Agr. Col. S. C. Ext. C. 82, 4 p. 1948. 275.29 C59C

41399 CRAVEN, R. Simple furniture I can make for my room. Clemson Agr. Col. S. C. Ext. C. 80, 4 p. 1948. 275.29 C59C

41400 CRAVEN, R. Using color in my room. Clemson Agr. Col. S. C. Ext. C. 79, 4 p. 1948. 275.29 C59C

41401 CRAVEN, R. Your working day. Clemson Agr. Col. S. C. Ext. C. 81, 4 p. 1948. 275.29 C59C

41402 FITZSIMMONS, C. New research fields. Washington, U. S. Ext. Serv., 1948. 7 p. 1.913 H4N42  
In home economics.

41403 FORBES, M. E. Your room—make it sparkle. Maine. Agr. Col. Ext. B. 377, 28 p. Mar. 1948. 275.29 M281B

41404 LABOSSIER, I. Getting ready to sew. N. J. Agr. Col. Ext. B. 250, 16 p. July 1948. 275.29 N46

41405 LABOSSIER, I. When you sew. N. J. Agr. Col. Ext. B. 251, 15 p. Sept. 1948. 275.29 N46

41406 LOW, F. W., and DARDEN, G. Simplify your work. Tex. Agr. Col. Ext. L-79, 4 p. 1948. 275.29 T313

Home management.

41407 MARION, J. E., and PECK, R. J. How to make lampshades of plastic, parchment or paper. Mich. State Col. Agr. B. 298, 11 p. 1948? 275.29 M58B

41408 MELOCHE, G., and PEARSON, H. Fitting a garment. Wis. Agr. Col. Ext. Spec. C. 7, 6 p. Aug. 1948. 275.29 W75S

41409 MELOCHE, G., and PEARSON, H. The skirt [in sewing]. Wis. Agr. Col. Ext. Spec. C. 9, 6 p. Aug. 1948. 275.29 W75S

41410 MELOCHE, G., and PEARSON, H. The waist [in sewing]. Wis. Agr. Col. Ext. Spec. C. 8, 6 p. Aug. 1948. 275.29 W75S

41411 MELOCHE, G., and PEARSON, H. When you sew. Wis. Agr. Col. Ext. Spec. C. 5, 6 p. Aug. 1948. 275.29 W75S

41412 MELOCHE, G., and PEARSON, H. You and your pattern. Wis. Agr. Col. Ext. Spec. C. 6, 6 p. Aug. 1948. 275.29 W75S

41413 NATIONAL CONFERENCE ON FAMILY LIFE. "Working papers" - action area: home management. Washington, U. S. Ext. Serv., 1948. 7 p. 1.913 C3F213

41414 SEABROOK, P. I plan my clothes; 4-H project. Clemson Agr. Col. S. C. Ext. C. 53, 4 p. 1948. 275.29 C59C

41415 SMITH, C. C. The 4-H clothing project; Programs III to XI. Maine. Agr. Col. Ext. B. 372, 10 p. Jan. 1948. 275.29 M281B

41416 SMITH, C. C. Learning to sew; Program 1—4-H clothing project. Maine. Agr. Col. Ext. B. 370, 16 p. Jan. 1948. 275.29 M281B

41417 SMITH, C. C. Taking care of your clothes; Program II—4-H clothing project. Maine. Agr. Col. Ext. B. 371, 20 p. Jan. 1948. 275.29 M281B

41418 TOLG, M. R. Homemaking can be easy. New York, Watts, 1949. 95 p. 321 T572

41419 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. A minimum and a more desirable set of kitchen utensils for farm families, by A. Woolrich, A. Baragar, B. Kuschke, and J. Warren. Washington? 1948. 6 p. 1.982 A2M66

41420 WOODROOF, J. G., and SIEWERT, S. Family frozen foods budget for Georgia. Ga. Agr. Expt. Sta. Press B. 609, 1 p. Mar. 3, 1949. 100 G29P

#### INTERNATIONAL RELATIONS

41421 BOUCHER, G. P. FAO carries on. Agr. Inst. Rev. 4: 39, 41, 43. Jan. 1949. 7 Ag8

41422 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Work of FAO 1947/48. Sept. 1948. 90 p. 389.9 F735R

41423 GOOCH, E. G. F.A.O. and the new world. Land Worker 30(356): 1-3; (357): 1-3. Jan.-Feb. 1949. 283.8 L22

41424 INFANTE, J. La reunion de Palmira y la Organización de las Naciones Unidas para la Agricultura y la Alimentación (F A O). Agr. Trop. Sup. Agron. 5: 47-49. Jan. 1949. 26 Ag8

41425 INTERNATIONAL CONGRESSES ON TROPICAL MEDICINE AND MALARIA, 4th, WASHINGTON, 1948. Proceedings, v. 1. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5(1), 946 p. 1948. 150 In822

41426 MAYNE, J. B. F. A. O. (Food and Agriculture Organisation.) What has it done? Agr. Gaz. N. S. Wales 59: 620-622. Dec. 1, 1948. 23 N472

41427 MOORE, R. E. Agricultural collaboration and health. Record 4(5): 21-28. May 1948. 150 R24  
Inter-American cooperation.

41428 UNITED STATES. Washington as the permanent site for FAO, a presentation of the United States Government. Washington? 1948? 31 p. 389.9 Un373

#### METEOROLOGY

41429 DAVITAIA, F. F. Trend and methods of research in Soviet agricultural meteorology. (In Russian.) Agrobiologiya 1948(3): 72-93. May/June 1948. 20 Ag822

41430 DOBB, A. D. Normal weather doesn't happen very often. Kans. Farmer 86(3): 3. Feb. 5, 1949. 6 K13



- 41431 FIDLER, J. C. Unmasking Jack Frost. South. Agr. 78, 1. e. 79(2): 13, 52. Feb. 1949. 6 So83
- 41432 GENNARI, M. Let us observe the weather. (In Italian.) B. dell'Agr. 82(2): 1. Jan. 16, 1948. 16 B87
- 41433 GISBORNE, H. T. Dry-ice to make rain and stop lightning. West. Forestry and Conserv. Assoc. Proc. 39: 64-65. 1948. 99.9 W522
- 41434 KRICK, I. P. Plan now for spring weather. Amer. Fruit Grower 69(2): 22-23, 43. Feb. 1949. 80 G85
- 41435 POST, J. J., and KRAMER, C. The weather in 1948 and agriculture. (In Dutch.) Tuinbouw 4: 18-19. Jan. 1949. 80 T815
- 41436 SCHNELLE, F. Einführung in die probleme der agrarmeteorologie. Stuttgart, Ulmer, 1948. 154 p. (Schriften über Neuzeitlichen Landbau, 11) 345 Sch5
- 41437 SPEYER, W. Gedanken zur phänologie. Anz. f. Schädlingssk. 21: 43-44. June 1948. 421 An9
- 41438 STEINHAUSER, F. Die niederschläge in der vegetationszeit 1947 und 1948 in Österreich. Pflug 2: 12-13. Jan. 1949. 19 P48
- 41439 VENEZUELA. DIRECCIÓN DE AGRICULTURA. Estaciones meteorológicas. Caracas? 1948. 20 p. 343 V552E

## RESEARCH

- 41440 AGRICULTURAL research in Scotland in 1947. Being a brief summary of the work at the Scottish agricultural research stations and agricultural and veterinary colleges during the year. Highland and Agr. Soc. Scot. Trans. (Ser. 5) 60: 80-103. 1948. 10 H536
- 41441 BUITENZORG scientific centre; a description of the scientific institutions at Buitenzorg. Buitenzorg, Archipel Drukkerij an 't Boekhuis, 1948. 64 p. 330 B86
- 41442 COLORADO. AGRICULTURAL EXPERIMENT STATION. Sixty-first annual report, 1947/48. Fort Collins, 1948. 39 p. 100 C71S
- 41443 EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE. Report, 1946/47. Edinburgh, 1947. 100 p. 103 Ed4Re
- 41444 ENGELHARD, J. Les paysans français se doivent de créer des centres d'études techniques. J. de la France Agr. 5: 3. Jan. 7/13, 1949. 14 J829
- 41445 GANDARILLAS, H. Rumbos que debe tomar la experimentación agrícola. Agros [Cochabamba] 1: 93-97. Oct. 1948. 9.4 Ag86
- 41446 GEORGIA. AGRICULTURAL EXPERIMENT STATION. Sixtieth annual report, 1947/48. Experiment, 1948? 135 p. 100 G29S
- 41447 GEORGIA. UNIVERSITY. LIBRARY. An author and subject index to the publications of the Georgia Agricultural Experiment Station and the Georgia Coastal Plain Experiment Station, 1888-1946, compiled by Mrs. J. D. Matthews and edited by Miss J. Oliver. n. p., 1948. 138 p. 241 M43
- 41448 HUGHES, D. Research and the farmer. Purdue Agr. 40(5): 4, 12. Feb. 1949. 6 P97
- Research in the agricultural departments at Purdue University.
- 41449 KANSAS. AGRICULTURAL EXPERIMENT STATION. Fourteenth biennial report of the director, 1946/48. Manhattan, 1948. 106 p. 100 K13S
- 41450 McDONALD, A. USDA research center re-making agriculture. Rocky Mtn. Union Farmer 29: 7. Jan. 1949. 280.28 C71
- 41451 MARTINS, A. G. Fiftieth anniversary of the Rio Grande do Sul Experiment Station. (In Portuguese.) Rev. Agron. [Porto Alegre] 12: 146-148. July/Sept. 1948. 9.2 R325
- 41452 NATIONAL RESEARCH COUNCIL. DIVISION OF BIOLOGY AND AGRICULTURE. Annual report. 1947/48. 1948. 7 p. 442.9 N212
- Includes work of the Agricultural Board.
- 41453 NEW MEXICO. AGRICULTURAL EXPERIMENT STATION. Science working for New Mexico farms and ranches; fifty-ninth annual report, 1947/48. State College, 1948. 70 p. 100 N465
- 41454 NEW YORK (STATE). AGRICULTURAL EXPERIMENT STATION. Sixty-seventh annual report, 1947/48. Geneva, 1949. 61 p. 100 N48
- 41455 NORTH CAROLINA. AGRICULTURAL EXPERIMENT STATION. Seventieth annual report, 1946/47. Progress report for December 1, 1946 to November 30, 1947. Res. and Farming [N. C. Sta.] 6(3), 93 p. Apr. 1948. 100 N81
- 41456 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Abstract of new publications and list of publications available. Okla. Agr. Expt. Sta. What's New Okla. Agr. 17, 14 p. Feb. 1949. 100 Ok4W
- 41457 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Science serving agriculture. I. Biennial report, 1946/48. Stillwater, 1948. 99 p. 100 Ok4
- 41458 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Science serving agriculture. II. Biennial report, 1946/48. Stillwater, 1948. 31 p. 100 Ok4
- 41459 OLIVIER, L. Research station of the eastern Freestate. (In Afrikaans.) Landbouweekblad 30(1543): 26. Feb. 9, 1949. 24 L232
- 41460 OREGON. AGRICULTURAL EXPERIMENT STATION. Oregon's agricultural progress through research; annual report of the Oregon Agricultural Experiment Station, 1947/48. Oreg. Agr. Expt. Sta. B. 461, 138 p. Dec. 1948. 100 Or3
- 41461 PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Science for the farmer; sixty-first annual report of the Pennsylvania Agricultural Experiment Station, 1947/48. Pa. Agr. Expt. Sta. B. 502, 60 p. June 1948. 100 P381
- 41462 PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Science for the farmer; supplement 2 to the 61st annual report. Pa. Agr. Expt. Sta. B. 502, sup 2, 12 p. Mar. 1948. 100 P381
- 41463 PENNSYLVANIA. STATE COLLEGE. Publications and research and other contributions, 1947/48. 1949. 119 p. 276 P3843
- Agricultural.
- 41464 ROA URIARTE, E. Lo que estan haciendo los centros científicos norteamericanos. Agronomia [Havana] 8(12): 25. Dec. 1948. 8 C893
- 41465 SOUTH DAKOTA. AGRICULTURAL EXPERIMENT STATION. Publications available on agriculture and home economics. Brookings, 1948. 11 p. 241 So8
- 41466 SOUTHWEST RESEARCH INSTITUTE. Industrial research. San Antonio, Tex., 1948? 21 p. 330.9 So85
- Includes agricultural research.
- 41467 VRIES, E. DE. The organization of agricultural research in relation to agricultural production, especially in Indonesia. (In Dutch.) Voeding 9: 275-280. Dec. 15, 1948. 389.8 V85
- 41468 WEST VIRGINIA. AGRICULTURAL EXPERIMENT STATION. Research powers the farm; biennial report, 1946-1948. W. Va. Agr. Expt. Sta. B. 334, 36 p. Dec. 1948. 100 W52

## STATISTICS

- 41469 HOUSEMAN, E. E. Designs of samples for surveys. Agr. Econ. Res. 1: 3-10. Jan. 1949. 1 Ec7Agr
- 41470 JIMÉNEZ, J. H. El "test" de secuencia. Agros [Cochabamba] 1: 61-66. Oct. 1948. 9.4 Ag86
- 41471 ROUSSOPOULOS, N. C. Dédution de la formule de Mitscherlich, de première approximation, au moyen de l'algèbre élémentaire. Ann. Agron. 18: 708-712. Nov./Dec. 1948. 14 An75A
- 41472 VESSEREAU, A. Méthodes statistiques en biologie et en agronomie. Paris, 1948. 381 p. (Nouvelle Encyclopédie Agricole: Recherche et Expérimentation en Agriculture; by F. Boeuf and A. Vessereau, v. 2) 281 B633



## U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

### Circulars

BARCOCK, C. J. Construction and arrangement of milk plants. U. S. D. A. C. 800, 36 p. Jan. 1949. 1 Ag84C

MARTIN, W. J. Moldy rot of tapping panels of hevea rubber trees. U. S. D. A. C. 798, 23 p. Ref. Jan. 1949. 1 Ag84C

### Farmers' Bulletins

BUSH, W. D. Selling black walnut timber. U. S. D. A. Farmers' B. 1459, rev., 19 p. July 1948. 1 Ag84F

SIEVERS, A. F. Production of drug and condiment plants. U. S. D. A. Farmers' B. 1999, 99 p. Washington, 1948. 1 Ag84F

STREET, O. E. Producing cigar tobacco in Pennsylvania. U. S. D. A. Farmers' B. 2001, 32 p. Dec. 1948. 1 Ag84F

### Miscellaneous Publications

BACON, L. B., and others. Agricultural geography of Europe and the Near East. U. S. D. A. Misc. P. 665, 67 p. June 1948. 1 Ag84M

R. G. Hainsworth, N. Jasny, C. M. Purves, L. Volin, and C. E. Whipple, joint authors.

### Program Aid

U. S. FARMERS HOME ADMIN. Farm ownership loans. U. S. D. A. PA-62, 8 p. Dec. 1948. 1 Ag84Pro

### AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

COUCH, J. F. Selected references to the literature on rutin, vitamin P, flavanols and related subjects. U. S. Bur. Agr. and Indus. Chem. AIC-192, 34 p. Dec. 1948. 1.932 A2Ag82

HEID, J. L. Concentrating citrus juices by the vacuum method. U. S. Bur. Agr. and Indus. Chem. AIC-212, 15 p. Nov. 1948. 1.932 A2Ag82

HEID, J. L., and CURL, A. L. Papaya products. U. S. Bur. Agr. and Indus. Chem. AIC-214, 9 p. Ref. Nov. 1948. 1.932 A2Ag82

MAST, W. C., and FISHER, C. H. Improved preparation of acrylic rubber curing methods and properties of the vulcanizates. U. S. Bur. Agr. and Indus. Chem. AIC-206, 17 p. Ref. Dec. 1948. 1.932 A2Ag82

PULLEY, G. N., MOORE, E. L., and ATKINS, C. D. Grapefruit cannery waste yields crude citrus pectin. U. S. Bur. Agr. and Indus. Chem. AIC-213, 9 p. Nov. 1948. 1.932 A2Ag82

SCOTT, W. M. Industrial opportunities latent in larger and more diversified Southern agricultural production. New Orleans? U. S. Bur. Agr. and Indus. Chem. 1948. 8 p. 1.9321 S2Sco8

Presented before the 1948 fall meeting of the Southern Association of State Planning and Development Agencies, Oct. 25-26, 1948.

SCOTT, W. M. New developments in cotton—an old chemurgic crop. U. S. Bur. Agr. and Indus. Chem. AIC-216, 10 p. Dec. 6, 1948. 1.932 A2Ag82

VON LOESECKE, H. W., and NOLTE, A. J. Characteristics and composition of papaya seed oil. U. S. Bur. Agr. and Indus. Chem. AIC-211, 4 p. Nov. 1948. 1.932 A2Ag82

### AGRICULTURAL ECONOMICS, BUREAU OF

ROYSTON, R. The national fruit and vegetable situation. Washington, U. S. Ext. Serv., 1949. 6 p. 1.941 A2R81

Talk at conference of Garden Leaders, Jan. 10 and 11, 1949, Washington, D. C.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Acreage and production dry bean and dry peas, by years 1929-48 and by class 1948. Boise, 1948. 2 p. 1.941 H8B372

U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual berry summary. Portland, Oreg., 1949. 2 p. 1.941 H8B45

U. S. BUR. OF AGRICULTURAL ECONOMICS. Early spring lamb crop - 1949. Washington, 1949. 2 p. 1.9 Ec742E

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm-to-retail margins for white flour and white bread, by W. E. Blackmore. Washington, 1948. 16 p. 1.941 F3F22

U. S. BUR. OF AGRICULTURAL ECONOMICS. Feed statistics including wheat and rye. Washington, 1948. 44 p. 1.941 S8F322

U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey and beeswax production, 1948. Oklahoma City, 1949. 2 p. 1.941 H8H756

U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho merchantable potato stocks estimated 21,310,000 bushels. Boise, 1949. 2 p. 1.941 H8P842

U. S. BUR. OF AGRICULTURAL ECONOMICS. Montana annual livestock slaughter. Helena, 1949. 2 p. 1.941 S8L7562

U. S. BUR. OF AGRICULTURAL ECONOMICS. Montana 1948 honey production. Helena, 1949. 2 p. 1.941 H8H757

U. S. BUR. OF AGRICULTURAL ECONOMICS. Monthly egg production, 1947-48. Washington, 1949. 14 p. 1.942 D22M76

U. S. BUR. OF AGRICULTURAL ECONOMICS. 1948 summary of American cheese warehouse statistics. Chicago, 1949. 9 p. 1.941 H8C41

U. S. BUR. OF AGRICULTURAL ECONOMICS. North Dakota red and amber Durum wheat acreage, 1948. Fargo, 1949. 2 p. 1.941 H8W563

U. S. BUR. OF AGRICULTURAL ECONOMICS. Potato stocks and disposition report, January 1, 1949. Fargo, N. Dak., 1949. 2 p. 1.941 H8P84

U. S. BUR. OF AGRICULTURAL ECONOMICS. Sheep and lambs on feed, January 1, 1949. Fargo, N. Dak., 1949. 2 p. 1.941 H8Sh4  
Similar reports from Oklahoma City and Portland, Oregon.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Shipments of package bees in 1948. Washington, 1949. 2 p. 1.941 S8B39

U. S. BUR. OF AGRICULTURAL ECONOMICS. Special freeze damage report, California fruits and vegetables. Washington, 1949. 2 p. 1.941 S2F946

U. S. BUR. OF AGRICULTURAL ECONOMICS. Turkey crop, 1949. Fargo, N. Dak., 1949. 2 p. 1.941 H8T843

U. S. BUR. OF AGRICULTURAL ECONOMICS. Young chickens and potential layers on farms 1947-49. Washington, 1949. 3 p. 1.941 H8C432



## AGRICULTURAL RESEARCH ADMINISTRATION

ALLARD, H. A. USDA research first to show that insects transmit tobacco mosaic. U. S. Agr. Res. Admin. Res. Achvt. Sheet 120, 2 p. Feb. 1949. 1.98 R31

NEUBERT, A. M. New froth-flotation process efficiently cleans vined peas. U. S. Agr. Res. Admin. Res. Achvt. Sheet 116, 2 p. Jan. 1949. 1.98 R31

PAGAN, C. Guppies used in assaying insecticidal value of rotenone-bearing root. U. S. Agr. Res. Admin. Res. Achvt. Sheet 115, 2 p. Jan. 1949. 1.98 R31

SCHWARTZ, B., and BURCH, D. S. Sodium fluoride effective against swine roundworms. U. S. Agr. Res. Admin. Res. Achvt. Sheet 119, 2 p. Jan. 1949. 1.98 R31

## ANIMAL INDUSTRY, BUREAU OF

U. S. BUR. OF ANIMAL INDUSTRY. Comparative record of brucellosis eradication work, fiscal years 1935 to 1948, inclusive. Washington? 1949? 4 p. 1.972 A2C73

U. S. BUR. OF ANIMAL INDUSTRY. Highlights of egg quality investigations, by E. H. McNally, J. P. Quinn, and M. W. Olsen. Washington? 1949? 2 p. 1.972 A2H53

U. S. BUR. OF ANIMAL INDUSTRY. Increasing the security of the United States from foot-and-mouth disease through research; a description of prospective facilities, safeguards, projects and services to the community and the Nation. Washington? 1949. 16 p. 1.972 A2In22

U. S. BUR. OF ANIMAL INDUSTRY. Phenothiazine for the control of livestock parasites, by A. O. Foster and F. D. Enzie. Washington? 1949. 9 p. 1.972 Z2P523

U. S. BUR. OF ANIMAL INDUSTRY. Portable pens for raising healthy dairy calves, by L. R. Davis. Washington? 1949. 4 p. 1.972 Z2P83

## COMMODITY EXCHANGE AUTHORITY

U. S. COMMODITY EXCHANGE AUTHORITY. Commodity futures statistics, July 1947 - June 1948. U. S. Commod. Exch. Authority. CS 34, 50 p. Nov. 1948. 1.9422 A8C732

ENTOMOLOGY AND PLANT QUARANTINE,  
BUREAU OF

DAVIS, E. G. Status of the wheat stem sawfly [*Cephus cinctus*] in the northern Great Plains in 1948. U. S. Bur. Ent. and Plant Quar. Insect Pest Survey. Spec. Sup. 1949(3), 3 p. Feb. 21, 1949. 1.9 En831B

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Conference report on cotton insect research and control, Baton Rouge, Louisiana, November 8 - 10, 1948. Washington, 1948. 26 p. 1.967 A2C76

## EXTENSION SERVICE

FITZSIMMONS, C. New research fields. Washington, U. S. Ext. Serv., 1948. 7 p. 1.913 H4N42  
Presented at the meeting of the Land-Grant College Association, Nov. 9, 1948, Washington, D. C.

NATIONAL CONFERENCE ON FAMILY LIFE. "Working papers" - action area: home management. Washington, U. S. Ext. Serv., 1948. 7 p. 1.913 C3F213

U. S. EXTENSION SERV. Examples of marketing activities reported by State marketing economists for the year 1947. Washington, 1949. 42 p. 1.913 E2Ex1

U. S. EXTENSION SERV. Extension teaching methods, foods and nutrition. Excerpts taken from 1947 annual reports of Eastern State specialists, by E. Davis. Washington? 1949. 12 p. 1.913 F4Ex82

U. S. EXTENSION SERV. How one State [Virginia] is using social and economic facts in planning an extension program in housing. Washington, 1948. 4 p. 1.913 A2H639

Summary of panel discussion at the Rural Family Living Session of the Outlook Conference, Oct. 13, 1948.

U. S. EXTENSION SERV. A list of references for specialists conducting an extension food marketing program for consumers, by M. B. Smith. Washington, 1949. 5 p. 1.913 F4G94

U. S. EXTENSION SERV. Program, National Extension Young Adult Planning Conference, State 4-H Club Camp, Jackson's Mill, Weston, W. Va., February 21 to 25, 1949. Washington, 1949. 4 p. 1.9 Ex892Fbp

U. S. EXTENSION SERV. Statistical summary of cooperative extension work in new housing 1940-1947. Washington? 1949. 4 p. 1.913 H3St2

U. S. EXTENSION SERV. Textiles and clothing research. A report to the Committee on Research in Home Economics, Division of Home Economics, Land Grant College Association, November 7, 1948. Washington, 1949. 8 p. 1.913 H4T31

## FARM CREDIT ADMINISTRATION

U. S. FARM CREDIT ADMIN. Federal Farm Mortgage Corporation surplus nonindustrial real property disposal; review of operations during the quarter and 6 months ended December 25, 1948 and sales classified by type of purchaser, from the beginning of the program through December 25, 1948. Washington? 1949? Unpagd. 1.955 F2F313

## FARMERS HOME ADMINISTRATION

U. S. FARMERS HOME ADMIN. Better living through better farming; report, 1947/48. Washington, 1949. 35 p. 1 Ag84

U. S. FARMERS HOME ADMIN. Use of direct farm ownership initial loan funds, July 1 through December 31, 1948. Washington? 1949. 3 p. 1.949 Us22

## FEDERAL CROP INSURANCE CORPORATION

U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 cotton sales handbook; dollar coverage insurance. Washington, 1947. 15 p. 1.952 C824

U. S. FEDERAL CROP INSURANCE CORPORATION. 1948 cotton sales handbook; yield insurance. Washington, 1947. 16 p. 1.952 C825

U. S. FEDERAL CROP INSURANCE CORPORATION. Sales handbook; 1949 bean. Washington, 1949. 12 p. 1.952 Sa34

U. S. FEDERAL CROP INSURANCE CORPORATION. Tobacco crop insurance policy; continuous contract covering 1949 and succeeding years. Washington, 1948. 4 p.-folder. 1 C88To

FOREIGN AGRICULTURAL RELATIONS,  
OFFICE OF

TROTTER, I. P. Observations on the cotton situation in Japan in 1948. U. S. Off. Foreign Agr. Relat. FC-2-49, 9 p. Feb. 20, 1949. 1.943 F7626

TROTTER, I. P. Observations on the cotton situation in the Dominions of India and Pakistan in 1948. U. S. Off. Foreign Agr. Relat. FC-3-49, 12 p. Feb. 20, 1949. 1.943 F7626

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Coordination of international food management within the United States Government 1941-1948. Washington, 1948. 56 p. 1.943 C78

## FOREST SERVICE

BARNES, G. H. Site classification for even-aged stands of western hemlock. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 50, 7 p. Feb. 4, 1949. 1.9 F7629Fr

BRIEGLEB, P. A. The yield of Douglas-fir in the Pacific Northwest measured by international 1/4-inch kerf log rule. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 46, 4 p. Dec. 16, 1948. 1.9 F7629Fr

FASSNACHT, D. L., and TRAIN, R. Tree defects common in the upland forests of southern Illinois. U. S. Forest Serv. Cent. States Forest Expt. Sta. Sta. Note 49, 2 p. Dec. 22, 1948. 1.9 F7625S

GEVORKIANTZ, S. R. Proportion of various rough products in second-growth stands. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 308, 1 p. Jan. 1949. 1.9 F7625T

GJERTSON, J. O. Practical guides for seeding grass on skid roads, trails, and landings, following logging on east-side forests of Washington and Oregon. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 49, 5 p. Jan. 20, 1949. 1.9 F7629Fr



HARRIS, E. E. Wood molasses for stock feed. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R1731, 9 p. Oct. 1948. 1.9 F761R

HORN, A. G. Minnesota leads Lake States in 1947 pole production. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 309, 1 p. Jan. 1949. 1.9 F7625T

JENSEN, C. E. Dot-type scale for measuring tree-crown diameters on aerial photographs. U. S. Forest Serv. Cent. States Forest Expt. Sta. Note 48, 2 p. Dec. 1948. 1.9 F7625S

LIMSTROM, G. A. Extent, character, and forestation possibilities of land stripped for coal in the Central States. U. S. Forest Serv. Cent. States Forest Expt. Sta. Tech. Paper 109, 79 p. Dec. 1948. 1.9622 C3T222

MATTHEWS, D. N., and HUTCHISON, S. B. Development of a blister rust control policy for the National forests in the Inland Empire. U. S. Forest Serv. North Rocky Mountain Forest & Range Expt. Sta. Paper 16, 116 p. Ref. Dec. 1948. 1.9622 N3St1

MORRIS, W. G. Summer moisture of forest fire fuels in Oregon and Washington in 1948 and previous years. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 47, 2 p. Dec. 29, 1948. 1.9 F7629Fr

RETTIE, J. C. We have just arrived upon this earth: how long will we stay? U. S. Forest Serv. Personnel Training Ser. 21, 5 p. Mar. 26, 1948. 1.9621 R7P43

ROE, E. I. Dense seed spots produce spindly jack pine seedlings. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 306, 1 p. Jan. 1949. 1.9 F7625T

RUDOLF, P. O. Hybrid poplar planting in the Lake States. U. S. Forest Serv. Lake States Forest Expt. Sta. Paper 14, 17 p. Dec. 1948. 1.9622 L2St2

RUDOLF, P. O. Porcupine damage to forest plantations. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 307, 1 p. Jan. 1949. 1.9 F7625T

STOVER, W. S., and TOFTE, A. L. Pulpwood production in Southern Forest Survey territory, 1947. U. S. Forest Serv. South. Forest Expt. Sta. Forest Survey Release 58, 16 p. Dec. 1948. 1.9 F7624F

TARRANT, R. F. The role of organic matter as a source of nitrogen in Douglas-fir forest soils. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 48, 5 p. Dec. 31, 1948. 1.9 F7629Fr

U. S. FOREST SERV. Control of brush by chemical sprays, by J. E. Sanderson. Washington, 1949. 5 p. 1.9621 R1C76

U. S. FOREST SERV. Norris-Doxey farm woodland management projects. Rev. Washington, 1949. 13 p. 1.962 C5N79

U. S. FOREST SERV. Working plan for a survey of wood used in manufacture. Washington, 1949. 9 p. 1.962 A2Su72

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on chemistry of wood and derived products. U. S. Forest Serv. Forest Prod. Lab. Mimeog. R238, 43 p. Nov. 1948. 1.9 F761R

U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. Forest products research in relation to soil and water conservation, by J. A. Hall. Portland, Oreg., 1949. 8 p. 1.9622 P2H14

ZEHNGRAFF, P. Growth of a managed pine forest. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 310, 2 p. Jan. 1949. 1.9 F7625T

#### HUMAN NUTRITION AND HOME ECONOMICS, BUREAU OF

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. A minimum and a more desirable set of kitchen utensils for farm families, by A. Woolrich, A. Baragar, B. Kuschke, and J. Warren. Washington? 1948. 6 p. 1.982 A2M66

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. School lunch recipes using tomato paste. Washington? 1948. 3 p. 1.982 A2Sch66

#### GRADUATE SCHOOL

GABRIELSON, I. N. Twilight for wildlife? Washington, U. S. D. A. Grad. School, 1949. 10 p. 1.984 T92

Talk delivered in the Department of Agriculture Graduate School's Lecture Series, Jan. 24, 1949.

#### INFORMATION, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Annual report [Department of Agriculture] highlights, by E. Moore and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Holly auction, by J. D. Tonkin and D. Lerch. Washington? 1948. 2 p. 1.914 R2T61

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Improved methods boost corn yields, by B. A. Krantz, E. R. Collins, C. Parker, and others. Washington, 1949. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Nuts for Christmas and other times, by H. L. Crane, M. Wood, A. Frew, and others. Washington, 1948. 7 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Questions about frozen foods, by R. B. White, S. Larson, R. Smith, and others. Washington, 1949. 5 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Report on 1949 meat supply, by R. Roberts and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

#### PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

SALTER, R. M. A look ahead in soils and crops research. Washington, U. S. Bur. Plant Indus., Soils, and Agr. Engin., 1949. 12 p. 1.965 A25A3

Address before the winter meeting of the Georgia Section, American Society of Agronomy and Soil Science Society of America at Athens, Ga., Jan. 18, 1949.

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Control of weeds in corn with chemicals, by L. W. Kephart and L. S. Evans. Beltsville, 1948. 6 p. 1.965 C2C764

U. S. BUR. OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Rape as an oil seed crop, by A. F. Sievers. Washington? 1948. 2 p. 1.965 T2R18

WILCOX, L. V. Discharge and salt burden of the Rio Grande above Fort Quitman, Texas, and salt-balance conditions of the Rio Grande project for the year 1947. U. S. Region. Salinity Lab. Res. Rpt. 31, 19 p. June 1948. 1.965 A2R31

#### PRODUCTION AND MARKETING ADMINISTRATION

U. S. PRODUCTION AND MARKETING ADMIN. Carlot unloads of certain fruits and vegetables in 100 cities and imports in 5 cities for Canada, calendar year 1947. Washington, 1948. 105 p. 1.956 F94C19

U. S. PRODUCTION AND MARKETING ADMIN. Shipping containers for fresh fruits and vegetables. Washington? 1949? 16 p. 1.956 F94Sh63

#### RURAL ELECTRIFICATION ADMINISTRATION

HAGGARD, G. W. A cooperative education program. Washington, U. S. Rural Electrification Admin., 1949. 3 p. 1.933 H12

Talk at the annual convention of the National Rural Cooperative Association, New York City, Feb. 1, 1949.

U. S. RURAL ELECTRIFICATION ADMIN. Percentage of farms with telephones, United States (estimated for January 1, 1949). Washington? 1948? Map. 1.933 P412

U. S. RURAL ELECTRIFICATION ADMIN. Subject matter for proposed wiring school for cooperative electrification advisers. Washington? 1948. 52 p. 1.933 Su12



## SECRETARY, OFFICE OF

BRANNAN, C. F. Rural electrification in the national farm program. Washington, U. S. D. A., 1949. 9 p. 1.91 A2B73

Talk before the National Rural Electric Cooperative Association, New York City, Jan. 31, 1949.

## SOIL CONSERVATION SERVICE

MINSHALL, N. E. Rates of runoff for the design of conservation structures in the Upper Mississippi Valley Upland Loessial areas. U. S. Soil Conserv. Serv. SCS-TP-73, 30 p. Jan. 1949. 1.96 Ad6Tp

U. S. SOIL CONSERVATION SERV. Books dealing with soil and water conservation and related subjects. Rev. Upper Darby, Pa., 1949. 6 p. 1.9601 B64

U. S. SOIL CONSERVATION SERV. The concept and principles of classifying land according to its capability. Preliminary. Washington, 1949. 18 p. 1.96 L22Co

U. S. SOIL CONSERVATION SERV. Plant living fences of multiflora rose. Milwaukee, 1948. 2 p. 1.9605 P695

U. S. SOIL CONSERVATION SERV. Significant ranges in land characteristics for soil conservation surveys. Washington? 1949. 1 p. 1.96 Ad6Sig

U. S. SOIL CONSERVATION SERV. Summaries of annual reports of research project supervisors for calendar year 1947, by G. R. Stewart. Washington, 1948. 121 p. 1.96 Su6

U. S. SOIL CONSERVATION SERV. Teaching conservation through present school subjects, by W. W. Reitz. Upper Darby, 1948? 5 p. 1.9601 T225

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the bunchgrass-sagebrush range in the East Wenatchee Soil Conservation District, by A. E. Blomdahl. Wenatchee, Wash., 1948. 13 p. 1.9609 R16

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the grass-sagebrush range in the Owyhee Soil Conservation District, Elko County, Nevada, by D. F. Collins. n. p., 1948. 14 p. 1.9609 R162

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the sagebrush-grassland forage type in the West Side Soil Conservation District, by V. P. McConnell. Idaho Falls, Idaho, 1948. 16 p. 1.9609 R163

U. S. SOIL CONSERVATION SERV. PACIFIC COAST REGION. Range condition; a classification of the scab land-grass type for the West Whitman Soil Conservation District, by R. Newell. Lacrosse, Wash., 1948. 14 p. 1.9609 R164



STATE AGRICULTURAL EXPERIMENT STATION

PUBLICATIONS

May 1949

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona Agricultural Experiment Station, Tucson

MATLOCK, R. L., and AEPLI, D. C. Growth and diseases of guar. *Ariz. Agr. Expt. Sta. B.* 216, 42 p. Ref. July 1948. 100 Ar4

EMBLETON, H. Profit calculator for eggs. *Ariz. Agr. Expt. Sta. B.* 219, 12 p. Nov. 1948. 100 Ar4

BARR, G. W. Arizona agriculture, 1949. *Ariz. Agr. Expt. Sta. B.* 220, 17 p. Jan. 1949. 100 Ar4

Arkansas Agricultural Experiment Station, Fayetteville

WISER, W. J. 1948 performance tests. *Ark. Agr. Expt. Sta. Rpt. Ser.* 12, 22 p. Jan. 1949. 100 Ar42R

California Agricultural Experiment Station, Berkeley

CALIFORNIA. AGRICULTURAL EXPERIMENT STATION. Statistical supplement to Agricultural Experiment Station Circular 378: Commercial head lettuce economic status, 1947, by S. Hoos, and H. F. Phelps. Berkeley, 1948. 24 p. 100 C12S

CALIFORNIA agriculture 3(1), 16 p. Jan. 1949. 100 C12Cag

Colorado Agricultural Experiment Station, Fort Collins

DYAR, E., and CASSEL, E. Mile-high cakes; recipes for high altitudes. *Colo. Agr. Expt. Sta. Tech. B.* 40, 32 p. Ref. Nov. 1948. 100 C71S

COLORADO. AGRICULTURAL EXPERIMENT STATION. Sixty-first annual report, 1947/48. Fort Collins, 1948. 39 p. 100 C71S

Connecticut (State) Agricultural Experiment Station, New Haven

TURNER, N. Control of insects on tobacco. *Conn. (State) Agr. Expt. Sta. C.* 167, 4 p. Feb. 1949. 100 C76St

CONNECTICUT. (STATE) AGRICULTURAL EXPERIMENT STATION. Saving your valued elms. *Conn. (State) Agr. Expt. Sta. Spec. B.*, 4 p. Jan. 1949. 464.07 C76

FRONTIERS of plant science 1(1), 8 p. Nov. 1948. 100 F92

Florida Agricultural Experiment Station, Gainesville

BRUNK, M. E. An economic study of celery marketing. *Fla. Agr. Expt. Sta. B.* 445, 183 p. July 1948. 100 F66S

MULL, L. E., and FOUTS, E. L. A laboratory program for the dairy plant. *Fla. Agr. Expt. Sta. B.* 449, 30 p. Oct. 1948. 100 F66S

Georgia Agricultural Experiment Station, Experiment

COWART, F. F., and DEMPSEY, A. H. Pimiento production in Georgia. *Ga. Agr. Expt. Sta. B.* 259, 32 p. Ref. Mar. 1949. 100 G29S

LEBEDEFF, G. A., and BROOKS, O. L. Performance tests of corn hybrids and varieties, 1943-1948. *Ga. Agr. Expt. Sta. C.* 158, 16 p. Jan. 1949. 100 G29S  
Georgia Mountain Experiment Station cooperating.

GEORGIA. AGRICULTURAL EXPERIMENT STATION. 1949 cotton insect control recommendations for Georgia. *Ga. Agr. Expt. Sta. Press B.* 608, 2 p. Feb. 1949. 100 G29P

WOODROOF, J. G., and SIEWERT, S. Family frozen foods budget for Georgia. *Ga. Agr. Expt. Sta. Press B.* 609, 1 p. Mar. 3, 1949. 100 G29P

GEORGIA. AGRICULTURAL EXPERIMENT STATION. Sixtieth annual report, 1947/48. Experiment, 1948? 135 p. 100 G29S

Idaho Agricultural Experiment Station, Moscow

HODGSON, C. W., and others. Early spring lamb production on irrigated farms of Idaho. *Idaho. Agr. Expt. Sta. B.* 272, 16 p. Dec. 1948. 100 Id1  
R. E. Knight, J. L. Toevs, E. F. Rinehart, and C. W. Hickman, joint authors.

Illinois Agricultural Experiment Station, Urbana

PENDLETON, J. W., and others. 1948 Illinois tests of corn hybrids in widest use. *Ill. Agr. Expt. Sta. B.* 531, p. 59-91. Feb. 1949. 100 IL6S  
G. H. Dungan, J. H. Bigger, A. L. Lang, B. Koehler, R. W. Jugenheimer, and G. E. McKibben, joint authors.

Kansas Agricultural Experiment Station, Manhattan

CLAPP, A. L., and TATUM, L. A. Kansas corn tests, 1948. *Kans. Agr. Expt. Sta. B.* 340, 46 p. Feb. 1949. 100 K13S

PAYNE, L. F. Poultry management. *Kans. Agr. Expt. Sta. C.* 244, 78 p. Feb. 1948. 100 K13S  
Circular 178 revised.

KANSAS. AGRICULTURAL EXPERIMENT STATION. Fourteenth biennial report of the director, 1946/48. Manhattan, 1948. 106 p. 100 K13S

Kentucky Agricultural Experiment Station, Lexington

KENTUCKY fruit notes 4(1), 14 p. Jan. 1949. 100 K41

Louisiana Agricultural Experiment Station, University Station, Baton Rouge

ALEXANDER, W. H., and LAW, J. M. Formula pricing of class I milk in the New Orleans milkshed. *La. Agr. Expt. Sta. Mimeog. C.* 89, 39 p. Feb. 1949. 100 L935

BARLOW, F. D., JR., and MCCRORY, E. R. Management problems on sweet potato farms, St. Landry and Lafayette Parishes. *La. Agr. Expt. Sta. Mimeog. C.* 90, 81 p. Jan. 1949. 100 L935

Main Agricultural Experiment Station, Orono

HALL, H. W., DICKEY, H. C., and SHAW, A. O. Selecting a dairy bull. *Maine. Agr. Expt. Sta. B.* 461, 41 p. Nov. 1948. 100 M28S

WATSON, A. E. Market egg production in Maine. *Maine. Agr. Expt. Sta. B.* 462, 28 p. Dec. 1948. 100 M28S

TERMAN, G. L., STEINMETZ, F. H., and HAWKINS, A. Effects of certain soil conditions and treatments upon potato yields and the development and control of potato scab. *Maine. Agr. Expt. Sta. B.* 463, 31 p. Dec. 1948. 100 M28S

FOLSOM, D. Comparative effects of certain sulphur fungicides on McIntosh apple trees. *Maine. Agr. Expt. Sta. B.* 464, 31 p. Ref. Dec. 1948. 100 M28S

MERCHANT, C. H. Consumers' acceptance of sized potatoes. *Maine. Agr. Expt. Sta. B.* 465, 15 p. Dec. 1948. 100 M28S

TOBEY, E. R. Commercial fertilizers, 1948. *Maine. Agr. Expt. Sta. Off. Insp.* 209, 36 p. Oct. 1948. 100 M28S

Maryland Agricultural Experiment Station, College Park

ABRAMS, G. J. Migratory bee culture in Maryland. *Md. Agr. Expt. Sta. B.* A48, 21 p. Sept. 1948. 100 M36S



POFFENBERGER, P. R., DEVAULT, S. H., and WALKER, W. P. Farm mortgage trends in Maryland Md. Agr. Expt. Sta. B. A49, 45 p. Sept. 1948. 100 M36S

CASSELL, G. R., and HOECKER, R. W. Pattern for development of air freight between the United States and countries in the Caribbean area. Md. Agr. Expt. Sta. Misc. P. 77, 49 p. Nov. 1948. 100 M36M

Mississippi Agricultural Experiment Station, State College

GILL, J. B. Winter grazing in South Mississippi. Miss. Agr. Expt. Sta. C. 134, rev., 13 p. Sept. 1948. 100 M69

KULP, D. A. Treating fence posts with pentachlorophenol-fuel oil solutions, using the cold-soaking method. Miss. Agr. Expt. Sta. C. 141, 11 p. May 1948. 100 M69

BOWERS, J. L., and others. Sweet corn variety testing program in Mississippi. Miss. Agr. Expt. Sta. C. 142, 8 p. Sept. 1948. 100 M69  
T. E. Ashley, J. A. Campbell, M. T. Deonier, L. R. Farish, and O. Sheets, joint authors.

FLETCHER, J. L. Controlling cottonseed meal poisoning in pigs. Miss. Agr. Expt. Sta. Inform. Sheet 409, 2 p. Apr. 1948. 100 M69In

LEVECK, H. H. Clipped lambs stand summer best. Miss. Agr. Expt. Sta. Inform. Sheet 412, 1 p. July 1948. 100 M69In

CARR, R. B. Vegetable soybeans. Miss. Agr. Expt. Sta. Inform. Sheet 415, 2 p. Dec. 1948. 100 M69In

CAMPBELL, J. A. Breeding tomatoes for higher yields, better quality, and resistance to fusarium wilt. Miss. Agr. Expt. Sta. Inform. Sheet 420, 2 p. Dec. 1948. 100 M69In

MISSISSIPPI farm research 12(2), 8 p. Feb. 1949. 100 M69Mi

Montana Agricultural Experiment Station, Bozeman

HOLLANDS, H. F., and CLARK, A. R. Livestock auction markets in Montana, 1946. Mont. Agr. Expt. Sta. B. 451, 24 p. July 1948. 100 M76

HALCROW, H. G. Montana's tax system. Mont. Agr. Expt. Sta. B. 452, 30 p. Sept. 1948. 100 M76

HUFFMAN, R. E., and MYRICK, D. C. Farm organization and production requirements in selected irrigated areas. Mont. Agr. Expt. Sta. B. 453, 36 p. Oct. 1948. 100 M76

PEPPER, J. H., and others. Montana insects pests 1947 and 1948; thirty-second report of the State entomologist. Mont. Agr. Expt. Sta. B. 457, 28 p. Jan. 1949. 100 M76

O. B. Hitchcock, C. R. Hunt, and R. Schmiedeskamp, joint authors.

HALCROW, H. G. Montana personal income taxation. Mont. Agr. Expt. Sta. B. 458, 35 p. Jan. 1949. 100 M76

Nebraska Agricultural Experiment Station, Lincoln

MILLER, F., LINDSEY, Q. W., and GEORGE, A. G. Cost of operating machinery on Nebraska farms. Nebr. Agr. Expt. Sta. B. 391, 35 p. Dec. 1948. 100 N27

New Jersey Agricultural Experiment Station, New Brunswick

NEW JERSEY. AGRICULTURAL EXPERIMENT STATION. Where to get farm credit. N. J. Agr. Expt. Sta. B. 745, 20 p. Jan. 1949. 100 N46S

HANSENS, E. J. Cattle grubs [Hypoderma]. N. J. Agr. Expt. Sta. C. 522, 4 p. Jan. 1949. 100 N46S

WALLER, A. G., and others. If not potatoes—what? N. J. Agr. Expt. Sta. C. 523, 7 p. Feb. 1949. 100 N46S

C. S. Garrison, O. R. Neal, W. C. Skelley, J. C. Campbell, and O. G. Bowen, joint authors.

New Mexico Agricultural Experiment Station, State College

NEW MEXICO. AGRICULTURAL EXPERIMENT STATION. Science working for New Mexico farms and ranches; fifty-ninth annual report, 1947/48. State College, 1948. 70 p. 100 N46S

New York (Cornell) Agricultural Experiment Station, Ithaca

THEODOROU, N. T. A study of former students of vocational agriculture in the Watkins Glen area. N. Y. (Cornell) Agr. Expt. Sta. B. 848, 40 p. Nov. 1948. 100 N48C

New York (State) Agricultural Experiment Station, Geneva

MUNN, M. T., BUCHHOLZ, A. B., and HOFER, A. W. The quality of seeds on sale in New York in 1948. N. Y. (State) Agr. Expt. Sta. B. 735, 40 p. Jan. 1949. 100 N48

HENING, J. C. Flavor evaluation procedures. N. Y. (State) Agr. Expt. Sta. Tech. B. 284, 20 p. Ref. Nov. 1948. 100 N48

NEW YORK (STATE). AGRICULTURAL EXPERIMENT STATION. Sixty-seventh annual report, 1947/48. Geneva, 1949. 61 p. 100 N48

North Carolina Agricultural Experiment Station, State College Station, Raleigh

COOKE, H. L., and MOORE, R. P. Measured [field] crop performance, 1948. N. C. Agr. Expt. Sta. B. 364, 46 p. Jan. 1949. 100 N81

NORTH CAROLINA. AGRICULTURAL EXPERIMENT STATION. Seventieth annual report, 1946/47. Progress report for December 1, 1946 to November 30, 1947. Res. and Farming [N. C. Sta.] 6(3), 93 p. Apr. 1948. 100 N81

North Dakota Agricultural Experiment Station, State College Station, Fargo

BIMONTHLY bulletin 11(3): 63-107. Jan./Feb. 1949. 100 N813B

Ohio Agricultural Experiment Station, Wooster

FARM and home research 33: 176-199. Nov./Dec. 1948. 100 Oh3S

Oklahoma Agricultural Experiment Station, Stillwater

ELDER, W. C. Trichloroacetate (T C A) for Bermuda grass and Johnson grass control. Okla. Agr. Expt. Sta. Mimeog. C. M-180, 5 p. Mar. 1949. 100 Ok4M

OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. A statistical handbook of Oklahoma agriculture. Okla. Agr. Expt. Sta. Misc. P. MP-14, 127 p. Jan. 1949. 100 Ok4

OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Abstract of new publications and list of publications available. Okla. Agr. Expt. Sta. What's New Okla. Agr. 17, 14 p. Feb. 1949. 100 Ok4W

OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Science serving agriculture. I. Biennial report, 1946/48. Stillwater, 1948. 99 p. 100 Ok4

OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Science serving agriculture. II. Biennial report, 1946/48. Stillwater, 1948. 31 p. 100 Ok4

CURRENT farm economics 22(1), 35 p. Feb. 1949. 100 Ok4

FARM research flashes. Mar. 1949. 4 p. 100 Ok4F

Oregon Agricultural Experiment Station, Corvallis

OREGON. AGRICULTURAL EXPERIMENT STATION. Oregon's agricultural progress through research; annual report of the Oregon Agricultural Experiment Station, 1947/48. Oreg. Agr. Expt. Sta. B. 461, 138 p. Dec. 1948. 100 Or3



STEENLAND, A. P., JONES, S. C., and ROBINSON, R. H. Spray program for the control of diseases and insect pests of cherries in western Oregon. *Oreg. Agr. Expt. Sta. C. Inform.* 448, 5 p. Jan. 1949. 100 Or3C

KIRK, D. E. A circular hay keeper. *Oreg. Agr. Expt. Sta. C. Inform.* 449, 5 p. Feb. 1949. 100 Or3C

MILLER, R. C., and DEVLIN, K. A. Processing filbert nuts. *Oreg. Agr. Expt. Sta. Tech. B.* 15, 16 p. Nov. 1948. 100 Or3S

Pennsylvania Agricultural Experiment Station, State College

PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Science for the farmer; sixty-first annual report of the Pennsylvania Agricultural Experiment Station, 1947/48. *Pa. Agr. Expt. Sta. B.* 502, 60 p. June 1948. 100 P381

PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Science for the farmer; supplement 2 to the 61st annual report. *Pa. Agr. Expt. Sta. B.* 502, sup. 2, 12 p. Mar. 1948. 100 P381

Contents: Growers have choice of four desirable variations in mixing broiler rations, by D. F. Woodward, R. V. Boucher, and R. R. Murphy, p. 4; Agitation of diluted bull semen is found to affect life of spermatazoa, by P. W. Prince and J. O. Almquist, p. 5; New potatoes yield high in 2-year tests but older kinds have some advantages, by O. D. Burke and W. R. Mills, p. 8-9; Functional sterile mutant may make hybrid tomato seed readily available, by R. E. Larson, p. 10-11; Thick planting of lima beans improves yields in good weather, by M. L. Odland, R. E. Larson, and Li-Paang Fi, p. 11; Dairy stable gutter cleaner, by A. S. Mowery, D. C. Sprague, and C. L. Martin, p. 12.

South Dakota Agricultural Experiment Station, Brookings

WORZELLA, W. W., and others. Progress report of research in crops and soils at the South Dakota Experiment Station. *S. Dak. Agr. Expt. Sta. C.* 72, 12 p. June 1948. 100 So82

A. N. Hume, L. F. Puhr, J. E. Grafius, C. J. Franzke, D. B. Shank, V. A. Dirks, J. G. Ross, M. W. Adams, and R. A. Cline, joint authors.

GRAFIUS, J. E. Plains barley. *S. Dak. Agr. Expt. Sta. C.* 74, 4 p. Apr. 1948. 100 So82

STAHLER, L. M., and DERSCHIED, L. A. Cultural methods of noxious weed control in South Dakota. *S. Dak. Agr. Expt. Sta. C.* 75, 8 p. June 1948. 100 So82

SOUTH DAKOTA. AGRICULTURAL EXPERIMENT STATION. Publications available on agriculture and home economics. Brookings, 1948. 11 p. 241 So8

Tennessee Agricultural Experiment Station, Knoxville

MCMURRAY, S. F. Variety performance trials of corn, oats, barley, wheat, soybeans, and cotton. *Tenn. Agr. Expt. Sta. B.* 208, 13 p. Jan. 1949. 100 T25S

LONG, O. H., and EWING, J. A. Fertilizer studies on small grains, with special emphasis on time and rate of nitrogen application. *Tenn. Agr. Expt. Sta. B.* 209, 21 p. Feb. 1949. 100 T25S

DRAIN, B. D. Tennessee Prolific red raspberry. *Tenn. Agr. Expt. Sta. C.* 101, 4 p. Dec. 1948. 100 T25S

EPPS, J. M., and SHERBAKOFF, C. D. Raspberry disease control. *Tenn. Agr. Expt. Sta. C.* 102, 2 p. Dec. 1948. 100 T25S

EPPS, J. M., and SHERBAKOFF, C. D. The Miles watermelon, a new wilt-resistant variety. *Tenn. Agr. Expt. Sta. C.* 103, 4 p. Dec. 1948. 100 T25S

Texas Agricultural Experiment Station, College Station

SMITH, H. P., and SORENSON, J. W., JR. Mechanical harvesting of corn. *Tex. Agr. Expt. Sta. B.* 706, 38 p. Ref. Oct. 1948. 100 T31S

COVER, S., and others. Development of safe methods for canning blackeye peas at home. *Tex. Agr. Expt. Sta. B.* 707, 26 p. Ref. Dec. 1948. 100 T31S

A. B. Smith, M. P. Shepperd, and E. G. Crawford, joint authors.

LYMAN, C. M., and KUIKEN, K. A. The amino acid composition of meat and some other foods. *Tex. Agr. Expt. Sta. B.* 708, 31 p. Ref. Jan. 1949. 100 T31S

BONNEN, C. A., and GABBARD, L. P. Live-stock and poultry statistics for Texas. *Tex. Agr. Expt. Sta. C.* 120, 46 p. July 1948. 100 T31S

MCDONALD, J. E., and FUDGE, J. F. Commercial insecticides and fungicides in Texas, 1947-48. *Tex. Agr. Expt. Sta. C.* 121, 15 p. Dec. 1948. 100 T31S

COWLEY, W. R., MAXWELL, N. P., and EDWARDS, C. C. Effects of fertilizers upon the yield and grade of cabbage. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1145, 3 p. Jan. 14, 1949. 100 T31P

COWLEY, W. R. Weslaco cotton variety test, 1944-48. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1146, 2 p. Jan. 24, 1949. 100 T31P

COLLIER, J. W., TROGDON, W. O., and JOHNSTON, J. R. Crop variety tests at the Blackland Experiment Station. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1147, 4 p. Jan. 27, 1949. 100 T31P

GERMAN, H. L., SHERWOOD, R. M., and JAMES, L. E. Gains, grades and profits with turkeys as affected by variety and sex. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1148, 2 p. Feb. 9, 1949. 100 T31P

NEAL, E. M., HALL, R. A., and JONES, J. H. Sweet and common Sudan grass for pasturage. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1149, 2 p. Feb. 9, 1949. 100 T31P

FUDGE, J. F. Distribution of fertilizer sales in Texas, July 1-December 31, 1948. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1150, 2 p. Feb. 18, 1949. 100 T31P

Utah Agricultural Experiment Station, Logan

YAO, T. C., and KNOWLTON, G. F. Surface arsenic occurrence on some plants attractive to bees. *Utah. Agr. Expt. Sta. Mimeog. Ser.* 349, 8 p. Mar. 1949. 100 Ut1M1

FARM & home science 10(1), 20 p. Mar. 1949. 100 Ut1F

Vermont Agricultural Experiment Station, Burlington

STORY, R. P. Cost of milk distribution in local Vermont markets. *Vt. Agr. Expt. Sta. B.* 545, 36 p. Nov. 1948. 100 V59

WILLIAMS, S. W. Governmental costs and taxes in 150 Vermont towns. *Vt. Agr. Expt. Sta. B.* 546, 28 p. Sept. 1948. 100 V59

FRAYER, J. M. A study of certain methods used in the laboratory diagnosis of bovine mastitis. *Vt. Agr. Expt. Sta. B.* 547, 19 p. Ref. Oct. 1948. 100 V59

HOUGHABOOM, V. R. Ten years of dairy farming in Vermont. *Vt. Agr. Expt. Sta. B.* 548, 23 p. Jan. 1949. 100 V59

TREMBLAY, R. H. Cost of producing milk in Vermont, 1945-46. *Vt. Agr. Expt. Sta. B.* 549, 15 p. Jan. 1949. 100 V59

SPROSTON, T. Vermont apple scab and control, 1947-1948. *Vt. Agr. Expt. Sta. B.* 550, 12 p. Feb. 1949. 100 V59

Virginia Agricultural Experiment Station, Blacksburg

SHULKUM, E., and others. 1948 official Virginia varietal tests of corn hybrids, barley, oats, and wheat. *Va. Agr. Expt. Sta. B.* 420, 16 p. Jan. 1949. 100 V81S

C. F. Genter, C. W. Roane, T. J. Smith, and T. M. Starling, joint authors.

West Virginia Agricultural Experiment Station, Morgantown

BESLEY, L. Taxation of forest lands in West Virginia. *W. Va. Agr. Expt. Sta. B.* 333, 39 p. Nov. 1498. 100 W52



WEST VIRGINIA. AGRICULTURAL EXPERIMENT STATION. Research powers the farm; biennial report, 1946-1948. W. Va. Agr. Expt. Sta. B. 334, 36 p. Dec. 1948. 100 W52

Wisconsin Agricultural Experiment Station, Madison

WALKER, J. C., POUND, G. S., and KUNTZ, J. E. Development of Wisconsin 55 tomato. Wis. Agr. Sta. B. 478, 20 p. Sept. 1948. 100 W75

THOMSEN, L. C., and FROKER, R. K. Packaging of butter for retail sales. Wis. Agr. Sta. B. 481, 16 p. Nov. 1948. 100 W75

DUFFEE, F. W., and HODGES, L. H. A general purpose farm wagon rack. Wis. Agr. Expt. Sta. Spec. B. 1, 23 p. Apr. 1948. 100 W75S

Wyoming Agricultural Experiment Station, Laramie

RIEDL, W. A. The inheritance of tuber-set in *Solanum tuberosum* L. Wyo. Agr. Expt. Sta. B. 287, 33 p. Ref. Dec. 1948. 100 W99

THIESSEN, E. J. High altitude vegetable cookery. Wyo. Agr. Expt. Sta. B. 288, 39 p. Feb. 1949. 100 W99

VASS, A. F., and others. The range lands of Wyoming; a summary of the record of 50 years' study by the scientists of the Wyoming Agricultural Experiment Station: Wyo. Agr. Expt. Sta. B. 289, 35 p. Feb. 1949. 100 W99

A. A. Beetle, R. Lang, and M. Haag, joint authors.

BARNES, O. K. Progress report on some range and grass research, Archer Field Station. Wyo. Agr. Expt. Sta. Wyo. Range Mangt. 1, 8 p. June 1948. 60.19 W99

BINDSCHADLER, H. Native vegetation in relation to soil in parts of Wyoming. Wyo. Agr. Expt. Sta. Wyo. Range Mangt. 3, 4 p. June 1948. 60.19 W99

BEETLE, A. A. An annotated index to grass names. Wyo. Agr. Expt. Sta. Wyo. Range Mangt. 4, 3 p. Oct. 1948. 60.19 W99



# STATE AGRICULTURAL EXTENSION SERVICE PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

## Arizona University, College of Agriculture, Agricultural Extension Service, Tucson

CHURCH, H. L. Learning to sew; first-year 4-H clothing. Ariz. Agr. Col. Ext. C. 145, 23 p. Oct. 1948. 275.29 Ar42

MCKEE, K. L. Building for tomorrow; a 4-H leader's handbook. Ariz. Agr. Col. Ext. C. 146, 17 p. Nov. 1948. 275.29 Ar42

RONEY, J. N. Fruit insect control hints. Ariz. Agr. Col. Ext. C. 148, 11 p. Feb. 1948. 275.29 Ar42

RONEY, J. N. Cotton insect control. Ariz. Agr. Col. Ext. Folder 54, i. e., 55, 4 p. Feb. 1949. 275.29 Ar42Ext

PISTOR, W. J. Newcastle disease. Ariz. Agr. Col. Ext. Folder 57, 4 p. Feb. 1949. 275.29 Ar42Ext

## Arkansas University, College of Agriculture, Agricultural Extension Service, Little Rock

ALLEN, E. J., and BURTON, L. H. 4-H gardening. Ark. Agr. Col. Ext. C. 359, rev., 28 p. Apr. 1948. 275.29 Ar4

ALLEN, E. J. 4-H Club manual in growing early Irish potatoes. Ark. Agr. Col. Ext. C. 380, rev., 7 p. Mar. 1948. 275.29 Ar4

WILLIAMS, D. E. Light to see. Ark. Agr. Col. Ext. C. 451, 12 p. June 1948. 275.29 Ar4

HEAD, T. P., and HOLLEY, A. L. Feeding dairy cows. Ark. Agr. Col. Ext. C. 453, 7 p. 1948? 275.29 Ar4

LANTRIP, D. S., and RUTLEDGE, L. L. 4-H leaders. Ark. Agr. Col. Ext. C. 456, 19 p. Mar. 1948. 275.29 Ar4

ISELY, D., and LINCOLN, C. Cotton insects in Arkansas. Ark. Agr. Col. Ext. C. 457, 28 p. Mar. 1948. 275.29 Ar4

ISELY, D., and LINCOLN, C. Protect corn from insect injury. Ark. Agr. Col. Ext. Leaflet 103, 6 p. May 1948. 275.29 Ar4Le

FORD, H. G., BROWDER, W. J. R., and WILLIAMS, C. F. Electric pig brooder. Ark. Agr. Col. Ext. Plan Ser. 18, 2 p. May 1948. 275.29 Ar4Fo

## California University, College of Agriculture, Agricultural Extension Service, Berkeley

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Alameda County poultry management study, 1948; seventh annual report, by V. D. Miller and A. D. Reed. Berkeley? 1948? 9 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Alfalfa seed and hay production study, Hemet Valley, Riverside County, 1947. Berkeley? 1948? 6 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Appraising damages in fruit tree destruction, by A. Shultis and B. B. Burlingame. Berkeley, 1948. 9 p. 275.2 C12Ap

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. First annual cost of production study on boysenberries, Stanislaus County, California, 1947. Berkeley? 1948? 5 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1948 desert grapefruit management study, Imperial County, by W. Sullivan and G. L. Winright. Berkeley? 1948? 8 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. 1947 navel orange management study, Los Angeles County, by B. B. Burlingame. Berkeley? 1948? 12 p. 275.29 C12En

CALIFORNIA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Suggestions for 4-H Club members [on] poultry brooding, by P. C. Barker and W. E. Newlon. Berkeley, 1948. 4 p. 275.29 C122F

## Colorado State College of Agriculture, Extension Service, Fort Collins

DYAR, E., and others. Mile-high cakes; recipes for high altitudes. Colo. Agr. Col. Ext. B. 404-A, 27 p. Dec. 1948. 275.29 C71E  
E. Cassel, M. Hummel, E. Twomey, and E. Slayton, joint authors.

MICKLE, G. T. Fly control in rural areas. Colo. Agr. Col. Ext. C. 154-A, 4 p. May 1948. 275.29 C71C

TRENARY, O. J. Plans for farm buildings and equipment. Colo. Agr. Col. Ext. C. 2094, 35 p. Feb. 1948. 275.29 C71C

## Florida University, College of Agriculture, Agricultural Extension Service, Gainesville

WATKINS, J. V. Propagation of ornamental plants. Fla. Agr. Col. Ext. B. 137, 44 p. Aug. 1948. 275.29 F66

SHEELEY, W. J. Swine production in Florida. Fla. Agr. Col. Ext. B. 138, 35 p. Dec. 1948. 275.29 F66

A revision of Bulletin 111.

## Hawaii University, Agricultural Extension Service, Honolulu

HAWAII. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Agricultural extension in Hawaii; twenty years of rural service. Hawaii. U. Agr. Ext. B. 49, 32 p. Jan. 1949. 275.29 H312E

VOLLRATH, H. M. Prevention and control of pig scours. Hawaii. U. Agr. Ext. C. 20, rev., 3 p. Dec. 1948. 275.29 H312Ac

BICE, C. M. Culling poultry. Hawaii. U. Agr. Ext. C. 181, rev., 6 p. Nov. 1948. 275.29 H312Ac

BICE, C. M. Artificial illumination of poultry. Hawaii. U. Agr. Ext. C. 260, 3 p. Jan. 1949. 275.29 H312Ac

TAKEI, S. 1948 Honolulu unloads, Oahu; estimated production, shipments and wholesale prices of specified agricultural products. Hawaii. U. Agr. Ext. C. 261, 57 p. Feb. 1949. 275.29 H412Ac

## Idaho University, College of Agriculture, Extension Service, Moscow

SMITH, V. T. Green manure crops for Idaho farms. Idaho. Agr. Col. Ext. C. 105, 4 p. Nov. 1948. 275.29 Id13C

## Illinois University, College of Agriculture, Extension Service, Urbana

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Community survival. Ill. Agr. Col. Ext. C. 633, 19 p. Jan. 1949. 275.29 IL62C

POWELL, D., CHANDLER, S. C., and KELLEY, V. W. Pest control in commercial fruit plantings. Ill. Agr. Col. Ext. C. 634, 40 p. Jan. 1949. 275.29 IL62C

WALTERS, C. S. Preserve your posts with penta. Ill. Agr. Col. Ext. C. 636, 16 p. Feb. 1949. 275.29 IL62C

ILLINOIS. AGRICULTURAL EXPERIMENT STATION. Corn borer [Pyrausta nubilalis] control in field corn. Ill. Agr. Col. Ext. C. 637, 16 p. Feb. 1949. 275.29 IL62C

Illinois State Natural History Survey cooperating.



DECKER, G. C. Hessian fly [Phytophaga destructor] conditions in Illinois for 1948. Ill. Agr. Col. Ext. NH236, 2 p. Sept. 3, 1948. 275.29 IL62Ph

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 1948 recommendations for corn borer [Pyrausta nubilalis] control on canning corn. Ill. Agr. Col. Ext. NH241, 1 p. Jan. 3, 1948. 275.29 IL62Ph

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The Illinois fly-free program; what needs to be done to control flies in Illinois. Ill. Agr. Col. Ext. NH243b, 1 p. Feb. 20, 1948. 275.29 IL62Ph

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The Illinois fly-free program; suggested committee organization. Ill. Agr. Col. Ext. NH243c, 3 p. Feb. 20, 1948. 275.29 IL62Ph

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The Illinois fly-free program; calendar of events. Ill. Agr. Col. Ext. NH243d, 2 p. Feb. 20, 1948. 275.29 IL62Ph

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The relative toxicity of certain new insecticides to mammals. Ill. Agr. Col. Ext. NH246, 2 p. Mar. 31, 1948. 275.29 IL62Ph

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Controlling stored grain insects on the farm. Ill. Agr. Col. Ext. NH247, 1 p. Mar. 31, 1948. 275.29 IL62Ph

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Chlordane for grasshopper control. Ill. Agr. Col. Ext. NH248, 1 p. Mar. 31, 1948. 275.29 IL62Ph

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. The uses of new insecticides on the farm. Ill. Agr. Col. Ext. NH249, 3 p. Mar. 31, 1948. 275.29 IL62Ph

ILLINOIS. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. DDT emulsions for use in corn borer [Pyrausta nubilalis] control. Ill. Agr. Col. Ext. NH251, 1 p. Apr. 13, 1948. 275.29 IL62Ph

DECKER, G. C. Watch for grasshoppers. Ill. Agr. Col. Ext. NH253, 2 p. June 2, 1948. 275.29 IL62Ph

Iowa State College of Agriculture, Agricultural Extension Service, Ames

IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Iowa farm labor program; a report of the emergency farm labor project of the Agricultural Extension Service, 1943-1947. Ames, 1948. 22 p. 275.2 IO92Ifp

IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Supplementary catalog of audio-visual aids, September 1, 1948. Ames, 1948. 27 p. 275.9 IO93

Maine University, College of Agriculture, Agricultural Extension Service, Orono

FOSS, E. W. Building and remodeling dairy barns. Maine. Agr. Col. Ext. B. 369, 32 p. Feb. 1948. 275.29 M281B

SMITH, C. C. Learning to sew; Program 1—4-H clothing project. Maine. Agr. Col. Ext. B. 370, 16 p. Jan. 1948. 275.29 M281B

SMITH, C. C. Taking care of your clothes; Program II—4-H clothing project. Maine. Agr. Col. Ext. B. 371, 20 p. Jan. 1948. 275.29 M281B

SMITH, C. C. The 4-H clothing project; Programs III to XI. Maine. Agr. Col. Ext. B. 372, 10 p. Jan. 1948. 275.29 M281B

HAWKINS, A., TERMAN, G. L., and WYMAN, O. L. Efficient fertilization of potatoes in Maine. Maine. Agr. Col. Ext. B. 373, 16 p. Mar. 1948. 275.29 M281B

HICKEY, J. C. Vegetable varieties for the Maine home garden. Maine. Agr. Col. Ext. B. 374, 15 p. Feb. 1948. 275.29 M281B

BEVERLY, V. C., and LANGLEY, E. How to grow 4-H potatoes. Maine. Agr. Col. Ext. B. 375, 12 p. Apr. 1948. 275.29 M281B

FORBES, M. E. Your room—make it sparkle. Maine. Agr. Col. Ext. B. 377, 28 p. Mar. 1948. 275.29 M281B

BRIWA, K. E. How to can meats and poultry. Maine. Agr. Col. Ext. B. 378, 20 p. Apr. 1948. 275.29 M281B

BRIWA, K. E. How to can fruits and vegetables at home. Maine. Agr. Col. Ext. B. 379, 32 p. Apr. 1948. 275.29 M281B

BRIWA, K. E. How to can fish at home. Maine. Agr. Col. Ext. B. 382, 12 p. May 1948. 275.29 M281B

BRIWA, K. Modern meat cookery. Maine. Agr. Col. Ext. C. 242, 4 p. Jan. 1948. 275.29 M281C

MAINE. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Enter the green pastures contest. Maine. Agr. Col. Ext. C. 248, 6 p.-folder. Apr. 1948. 275.29 M281C

REED, F. D. What the producer should know about egg grades. Maine. Agr. Col. Ext. Mktg. Eggs & Poultry. Letter 2, 2 p. May 1, 1948. 275.29 M28Ex

REED, F. D. The care and handling of eggs. Maine. Agr. Col. Ext. Mktg. Eggs & Poultry. Letter 3, 2 p. June 14, 1948. 275.29 M28Ex

REED, F. D. The egg room. Maine. Agr. Col. Ext. Mktg. Eggs & Poultry. Letter 4, 2 p. July 30, 1948. 275.29 M28Ex

Maryland University, College of Agriculture and Home Economics, Extension Service, College Park

MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Freezing quality foods. Md. Agr. Col. Ext. B. 120, 37 p. Oct. 1948. 275.29 M36B

GRAHAM, C., and others. 1949 Maryland spray calendar for apples and peaches. Md. Agr. Col. Ext. B. 122, 13 p. Jan. 1949. 275.29 M36B

T. L. Bissell, L. O. Weaver, and A. F. Vierheller, joint authors.

MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Varieties of vegetables recommended for Maryland in 1948, by E. K. Bender. College Park? 1948. 275.29 M36V

Massachusetts State College, Extension Service, Amherst

FRENCH, A. P. Raspberry growing. Mass. U. Agr. Ext. Leaflet 48, rev., 23 p. Dec. 1948. 275.29 M381L

DICKINSON, L. S. Lawn management. Mass. U. Agr. Ext. Leaflet 85, rev., 14 p. Oct. 1948. 275.29 M381L

THAYER, C. L., and BOICOURT, A. W. House plants. Mass. U. Agr. Ext. Leaflet 103, 15 p. Oct. 1948. 275.29 M381L

HIGGINS, B. Should you make a will? Mass. U. Agr. Ext. Spec. C. 155, 12 p. Oct. 1948. 275.29 M381Sc

Michigan State College of Agriculture and Applied Science Extension Division, East Lansing

LOREE, R. E., HUTSON, R., and CATION, D. Strawberry growing in Michigan. Mich. State Col. Agr. B. 297, 33 p. 1948? 275.29 M58B

MARION, J. E., and PECK, R. J. How to make lampshades of plastic, parchment or paper. Mich. State Col. Agr. B. 298, 11 p. 1948? 275.29 M58B

Mississippi State College, Extension Service, State College

BUCKLEY, K. H. In my garden; it's work, but it pays. Miss. State Col. Ext. C. 144, 8 p. Jan. 1948. 275.29 M68C

MURPHREE, L. C. Kill those garden bugs. Miss. State Col. Ext. C. 145, 8 p. Mar. 1948. 275.29 M68C

DUNNAM, E. W., and others. Control cotton insects. Miss. State Col. Ext. Leaflet 84, 6 p.-folder. Apr. 1948. 275.29 M68Ex

A. L. Hamner, C. Lyle, and L. C. Murphree, joint authors.

MURPHREE, L. C. Kill household insects. Miss. State Col. Ext. Leaflet 85, 8 p.-folder. July 1948. 275.29 M68Ex



THOMPSON, W. R. Sweet Sudan for summer grazing. Miss. State Col. Ext. Leaflet 86, 4 p. Apr. 1948. 275.29 M68Ex

MISSISSIPPI. STATE COLLEGE. EXTENSION SERV. There's gold in the green of Mississippi, dairy-land unlimited. Miss. State Col. Ext. Leaflet 87, 4 p. June 1948. 275.29 M68Ex

Missouri University, College of Agriculture, Agricultural Extension Service, Columbia

ZUBER, M. S., and ASLIN, W. E. 1948 yield trials with corn hybrids in Missouri. Mo. Agr. Col. Ext. Manual 48, 19 p. Jan. 1949. 275.29 M69Ma

Nebraska University, College of Agriculture, Agricultural Extension Service, Lincoln

DEROSE, R. L. Electric pig brooders. Nebr. Agr. Col. Ext. E.C. 784, rev., 5 p. Feb. 1949. 275.29 N272Ex

LOMAX, J., and PAPPAS, J. Sweet clover weevil [Sitona cylindricollis]. Nebr. Agr. Col. Ext. E. C. 1554, 3 p. Feb. 1949. 275.29 N272Ex

New Hampshire University, College of Agriculture and the Mechanic Arts, Extension Service, Durham

SWAIN, L. C., and BEGGS, A. F. Interior finishes and how to develop them. N. H. Agr. Col. Ext. C. 291, 23 p. Jan. 1949. 275.29 N45C

New Jersey State College of Agriculture and Mechanic Arts, Extension Service, Rutgers University, New Brunswick

LABOSSIER, I. Getting ready to sew. N. J. Agr. Col. Ext. B. 250, 16 p. July 1948. 275.29 N46

LABOSSIER, I. When you sew. N. J. Agr. Col. Ext. B. 251, 15 p. Sept. 1948. 275.29 N46

LABOSSIER, I. What's new in fabrics. N. J. Agr. Col. Ext. B. 252, 16 p. Aug. 1948. 275.29 N46

CHRIST, E. G. Strawberry growing in New Jersey. N. J. Agr. Col. Ext. B. 253, 16 p. Feb. 1949. 275.29 N46

New Mexico College of Agriculture, Extension Service, State College

GIBBS, L. C. Grow your own vegetables; when, what and how to plant. N. Mex. Agr. Col. Ext. C. 220, 8 p.-folder. Feb. 1948. 275.29 N463E

New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

COPE, J. A. Maple sirup and sugar. N. Y. Agr. Col. Cornell Ext. B. 397, rev., 32 p. Jan. 1949. 275.29 N48E

GUTHRIE, E. S. Making butter on the farm. N. Y. Agr. Col. Cornell Ext. B. 751, 16 p. Oct. 1948. 275.29 N48E

LEONARD, N. B. Let's prepare a publication. N. Y. Agr. Col. Cornell Ext. B. 753, 84 p. Jan. 1949. 275.29 N48E

WORK, P., and ELLE, G. O. Varieties of vegetables for 1949. N. Y. Agr. Col. Cornell Ext. B. 763, 16 p. Feb. 1949. 275.29 N48E

NEW YORK. STATE COLLEGE OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Extension Service Summer School at Cornell University, 1948. Ithaca, 1948. 12 p. 275.29 N48Es

North Carolina University, State College of Agriculture and Engineering, Extension Service, State College Station, Raleigh

RATCHFORD, C. B., and CLARK, C. E. Father-son business arrangements. N. C. Agr. Col. Ext. C. 330, 20 p. Nov. 1948. 275.29 N811

GRIMSLEY, C. J., and SWAIN, V. S. The art of staying young. N. C. Agr. Col. Ext. Misc. Pam. 117, 7 p. Apr. 1948. 275.29 N811M

North Dakota Agricultural College, Extension Service, State College Station, Fargo

NORTH DAKOTA. AGRICULTURAL COLLEGE. EXTENSION SERV. 4-H in North Dakota. N. Dak. Agr. Col. Ext. C. A-129, 8 p.-folder. Apr. 1948. 275.29 N812Sa

NORTH DAKOTA. AGRICULTURAL COLLEGE. EXTENSION SERV. Swine sanitation pays. N. Dak. Agr. Col. Ext. C.-A-130, 6 p.-folder. May 1948. 275.29 N812Sa

NORTH DAKOTA. AGRICULTURAL COLLEGE. EXTENSION SERV. Soil Conservation Districts in North Dakota. N. Dak. Agr. Col. Ext. Spec. C., 6 p.-folder. Apr. 1948. 275.29 M812Sa

Ohio State University, College of Agriculture, Agricultural Extension Service, Columbus

WILLARD, C. J., and BEARD, D. F. Bromegrass; use and culture on Ohio farms. Ohio. Agr. Col. Ext. B. 290, 8 p. Jan. 1948. 275.29 Oh32

WILLARD, C. J., BEARD, D. F., and THATCHER, L. E. Alfalfa varieties for Ohio. Ohio. Agr. Col. Ext. B. 291, 8 p. Feb. 1948. 275.29 Oh32

PARKS, T. H. The periodical cicada [Magicicada septendecim]. Ohio. Agr. Col. Ext. B. 292, 4 p. Feb. 1948. 275.29 Oh32

MILNER, R. Surface drainage of flat land. Ohio. Agr. Col. Ext. B. 299, 24 p. June 1948. 275.29 Oh32

PATTERSON, V. Pruning small fruits. Ohio. Agr. Col. Ext. B. 304, 12 p. Feb. 1949. 275.29 Oh32

OHIO. STATE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. The fourth H is health. Ohio. Agr. Col. Ext. 4-H C. 161, 4 p. Mar. 1948. 275.29 Oh322

Oregon State College, Federal Cooperative Extension Service, Corvallis

COYLE, B. W. Oregon's meat animals and wool—agricultural statistics, 1947. Oreg. State Col. Ext. C. 527, 6 p. Jan. 1949. 275.29 Or32C

Pennsylvania State College, Agricultural Extension Service, State College

HASWELL, J. R., BURRESS, C. G., and BINGHAM, C. H. Farm pond building. Pa. State Col. Agr. Ext. C. 320, 20 p. June 1948. 275.29 P38C

DOSSIN, C. O., and GORDEUK, S., JR. Preventing poultry diseases. Pa. State Col. Agr. Ext. C. 322, 26 p. Nov. 1948. 275.29 P38C

Puerto Rico University, College of Agriculture, Extension Service, Rio Piedras

MORELL, B. M. La venta de productos agrícolas a orillas de la carretera. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 39, 4 p. Jan. 1949. 275.29 P962

South Carolina, Clemson Agricultural College, Extension Service, Clemson

CRAVEN, R. Better arrangement of my [bed] room. Clemson Agr. Col. S. C. Ext. C. 51, 4 p. 1948. 275.29 C59C

CRAVEN, R. Better care of the bedroom. Clemson Agr. Col. S. C. Ext. C. 52, 4 p. 1948. 275.29 C59C

SEABROOK, P. I plan my clothes; 4-H project. Clemson Agr. Col. S. C. Ext. C. 53, 4 p. 1948. 275.29 C59C

MARTIN, M. Non-acid vegetables [canned] in the pressure cooker. Clemson Agr. Col. S. C. Ext. C. 54, 4 p. 1948. 275.29 C59C

MARTIN, M. Meats [canned] in the pressure cooker. Clemson Agr. Col. S. C. Ext. C. 55, 4 p. 1948. 275.29 C59C

MARTIN, M. The 4-H girl learns to can; canning tomatoes and fruit in boiling water bath. Clemson Agr. Col. S. C. Ext. C. 56, 4 p. May 1948. 275.29 C59C



- CRAVEN, R. How do I use my time? Clemson Agr. Col. S. C. Ext. C. 57, 4 p. 1948. 275.29 C59C
- CRAVEN, R. Better dishwashing. Clemson Agr. Col. S. C. Ext. C. 58, 4 p. 1948. 275.29 C59C
- MCDILL, J. Fruits for breakfast. Clemson Agr. Col. S. C. Ext. C. 60, 3 p. 1948. 275.29 C59C
- MCDILL, J. Breads for breakfast. Clemson Agr. Col. S. C. Ext. C. 64, 4 p. 1948. 275.29 C59C
- MCDILL, J. Vegetables for dinner. Clemson Agr. Col. S. C. Ext. C. 66, 4 p. 1948. 275.29 C59C
- MCDILL, J. Meats for dinner. Clemson Agr. Col. S. C. Ext. C. 67, 4 p. 1948. 275.29 C59C
- MCDILL, J. Breads. Clemson Agr. Col. S. C. Ext. C. 68, 4 p. 1948. 275.29 C59C
- MCDILL, J. Your family's food in relation to health and cost. Clemson Agr. Col. S. C. Ext. C. 70, 6 p. 1948. 275.29 C59C
- MCDILL, J. Milk and milk cookery. Clemson Agr. Col. S. C. Ext. C. 71, 8 p. 1948. 275.29 C59C
- MCDILL, J. Meat cookery. Clemson Agr. Col. S. C. Ext. C. 72, 6 p. 1948. 275.29 C59C
- MCDILL, J. Food, nutrition, and health; muffins. Clemson Agr. Col. S. C. Ext. C. 74, 6 p. 1948. 275.29 C59C
- MCDILL, J. Food, nutrition, and health; biscuit and biscuit doughs. Clemson Agr. Col. S. C. Ext. C. 75, 6 p. 1948. 275.29 C59C
- CRAVEN, R. My part in family planning. Clemson Agr. Col. S. C. Ext. C. 77, 6 p. 1948. 275.29 C59C
- CRAVEN, R. The farm family plans. Clemson Agr. Col. S. C. Ext. C. 78, 4 p. 1948. 275.29 C59C
- CRAVEN, R. Using color in my room. Clemson Agr. Col. S. C. Ext. C. 79, 4 p. 1948.
- CRAVEN, R. Simple furniture I can make for my room. Clemson Agr. Col. S. C. Ext. C. 80, 4 p. 1948. 275.29 C59C
- CRAVEN, R. Your working day. Clemson Agr. Col. S. C. Ext. C. 81, 4 p. 1948. 275.29 C59C
- CRAVEN, R. Save your time and motion. Clemson Agr. Col. S. C. Ext. C. 82, 4 p. 1948. 275.29 C59C
- CRAVEN, R. Save time and motion through storage. Clemson Agr. Col. S. C. Ext. C. 83, 4 p. 1948. 275.29 C59C
- SOUTH CAROLINA AGRONOMY COMMITTEE. Conservation farming in Marion County, South Carolina. Clemson Agr. Col. S. C. Ext. C. 317, 23 p. June 1948. 275.29 So8E
- GOODING, P. H. A guide to poultry farming in South Carolina. Clemson Agr. Col. S. C. Ext. C. 318, 30 p. Sept. 1948. 275.29 So8E
- GRAVES, J. T. Judging hogs for 4-H Club members. Clemson Agr. Col. S. C. Ext. C. 319, 6 p.-folder. Sept. 1948. 275.29 So8E
- DURANT, A. L., and GRAVES, J. T. Fat cattle judging for 4-H Clubs. Clemson Agr. Col. S. C. Ext. C. 320, 8 p.-folder. Oct. 1948. 275.29 So8E
- ROCHESTER, M. C. The agricultural outlook, South Carolina, 1949. Clemson Agr. Col. S. C. Ext. C. 322, 8 p.-folder. Dec. 1948. 275.29 So8E
- STEWART, G. H. Homemade electric brooder. Clemson Agr. Col. S. C. Ext. C. 323, 6 p.-folder. Jan. 1949. 275.29 So8E
- FERREE, R. J. Summer spray schedules for peaches. Clemson Agr. Col. S. C. Ext. Inform. Card 72, rev. Feb. 1949. 275.29 So8I

South Dakota State College of Agriculture, Extension Service, Brookings

- BRYAN, M. E. Christmas gift ideas for 1948. S. Dak. State Col. Agr. Ext. C. 438, 22 p. Oct. 1948. 275.29 So85
- MCPHEE, G., and LUBINUS, L. Water & sewage systems for the farm. S. Dak. State Col. Agr. Ext. C. 446, 24 p. Jan. 1949. 275.29 So85
- WEAVER, G. S. Brucellosis (Bang's disease or contagious abortion) in cattle, hogs, in man. S. Dak. State Col. Agr. Ext. Leaflet 116, 6 p.-folder. Oct. 1948. 275.29 So85E

Tennessee University, College of Agriculture, Agricultural Extension Service, Knoxville

- TENNESSEE UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Spraying your home fruit. Tenn. Agr. Col. Ext. Leaflet 73, rev., 6 p. Jan. 1948. 275.29 T25L
- WELLHAUSEN, H. W. Alta and Kentucky 31 Fescue production in Tennessee. Tenn. Agr. Col. Ext. Leaflet 95, rev., 4 p. Oct. 1948. 275.29 T25L
- PELTON, W. C. Better home grounds; growing and transplanting trees and shrubs. Tenn. Agr. Col. Ext. P. 196, rev., 20 p. Mar. 1948. 275.29 T25
- MARTIN, G. E. Farm ponds. Tenn. Agr. Col. Ext. P. 238, rev., 16 p. June 1948. 275.29 T25
- CARLTON, H. Home-preparation of fruits and vegetables for the freezer-locker. Tenn. Agr. Col. Ext. P. 280, 16 p. June 1948. 275.29 T25
- GOWDER, M. T. Farm machinery adjustments, field maintenance, and storage. Tenn. Agr. Col. Ext. P. 286, rev., 43 p. Jan. 1948. 275.29 T25
- MEYER, A. Sweetpotato production and storage. Tenn. Agr. Col. Ext. P. 287, rev., 15 p. Feb. 1948. 275.29 T25
- STANLEY, W. W. DDT; its use in control of insect pests. Tenn. Agr. Col. Ext. P. 293, rev., 16 p. Jan. 1948. 275.29 T25
- TYRRELL, W. P. The 4-H beef club calf; selection, management, feeding, showing. Tenn. Agr. Col. Ext. P. 304, 12 p. June 1948. 275.29 T25
- MARTIN, G. E. Farm sewage disposal by septic tank and absorption lines. Tenn. Agr. Col. Ext. P. 307, 16 p. Mar. 1948. 275.29 T25
- GOWDER, M. T., and ANDES, J. O. Weed spraying equipment. Tenn. Agr. Col. Ext. P. 308, 8 p. June 1948. 275.29 T25
- JERDAN, A. L., and WALRATH, F. J. Tennessee co-op handbook. Tenn. Agr. Col. Ext. P. 311, 28 p. Nov. 1948. 275.29 T25

Texas Agricultural and Mechanical College, Agricultural Extension Service, College Station

- ROSBOROUGH, J. F., BRISON, F. R., and SMITH, C. L. Pecan orchard management. Tex. Agr. Col. Ext. B. 162, 15 p. 1948. 275.29 T312
- LANCASTER, R. R. Rhodesgrass, for hay and pasture in South Texas. Tex. Agr. Col. Ext. C-245, 8 p. 1949. 275.29 T312C
- LOW, F. W., and DARDEN, G. Simplify your work. Tex. Agr. Col. Ext. L-79, 4 p. 1948. 275.29 T313
- TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Feed people not rats! Tex. Agr. Col. Ext. L-81, 8 p.-folder. June 1948. 275.29 T313
- MURRAY, M. Are you planning a homemakers market? Tex. Agr. Col. Ext. L-86, 8 p. 1949. 275.92 T313
- BANKS, W. C. Rabies. Tex. Agr. Col. Ext. L-87, 4 p. 1949. 275.29 T313
- TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Poultry prospects in Texas for 1949. Tex. Agr. Col. Ext. L-103, 1 p. 1949. 275.29 T313
- TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. What's ahead for the Texas vegetable grower in 1949? Tex. Agr. Col. Ext. L-112, 1 p. 1948. 275.29 T313
- TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. The Lubbock County study; an evaluation of the effectiveness of extension work in Lubbock County, Texas, 1947. Tex. Agr. Col. Ext. R-11, 30 p. 1948. 275.29 T313C

Utah State Agricultural College, Extension Service, Logan

- KNOWLTON, G. F., ASHTON, C. D., and SORENSON, C. J. Official Utah fruit spray recommendations for 1949. Utah. State Agr. Col. Ext. B. 174, 16 p. Mar. 1949. 275.29 Utl
- KNOWLTON, G. F. Livestock pest control, 1949. Utah. State Agr. Col. Ext. M. S. 2, 6 p. Jan. 24, 1949. 275.29 UtlMs



KNOWLTON, G. F. Ant control. Utah. State Agr. Col. Ext. M. S. 4, 1 p. Jan. 1949. 275.29 Ut1Ms  
KNOWLTON, G. F. Control fruit pests without poisoning bees. Utah. State Agr. Col. Ext. M. S. 8, 1 p. Mar. 1949. 275.29 Ut1Ms

KNOWLTON, G. F. Grasshopper control in Utah, 1948. Utah. State Agr. Col. Ext. M. S. 776, 3 p. Dec. 18, 1948. 275.29 Ut1Ms

Virginia Agricultural and Mechanical College and Polytechnic Institute, Agricultural Extension Division, Blacksburg

VIRGINIA. AGRICULTURAL AND MECHANICAL COLLEGE AND POLYTECHNIC INSTITUTE. AGRICULTURAL EXTENSION DIV. Virginia's field and truck crop fertilizer recommendations. Va. Agr. Col. Ext. C. 341, rev., 6 p.-folder. Jan. 1948. 275.29 V81C

Washington State College, Extension Service, Pullman

WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Infectious laryngotracheitis and infectious bronchitis of chickens. Wash. State Col. Ext. B. 372, 7 p. Mar. 1948. (Poultry Pointers 8, rev.) 275.29 W27P

WASHINGTON. STATE COLLEGE. EXTENSION SERV. Laying cages for chickens. Wash. State Col. Ext. B. 383, 8 p. Jan. 1949. (Poultry Pointers 1, rev.) 275.29 W27P

HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 129, 6 p.-folder. Jan. 27, 1949. 275.29 W27C

HOBSON, K. Keeping up on the farm outlook. Wash. State Col. Ext. C. 130, 6 p.-folder. Feb. 28, 1949. 275.29 W27C

SHERWOOD, E. C., and BISHOP, C. F. Spray schedules for home orchards. Wash. State Col. Ext. C. 351, 6 p.-folder. Dec. 1948. 275.29 W522C

MILLER, J. P. 4-H broilers, fryers, roasters, and capons. Wash. State Col. Ext. 4-H C. 63, 8 p. Jan. 1949. 275.29 W27Fh

West Virginia University, College of Agriculture, Agricultural Extension Service, Morgantown

HUMPHREYS, G. How forward-looking is your club? W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 1, 6 p. 1948? 275.29 W522G

COFER, E. Vitamin C in family meals. W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 2, 6 p. 1948? 275.29 W522G

COFER, E. Main dishes at low cost. W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 3, 6 p. 1948? 275.29 W522G

BELL, W. Building materials and their use. W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 4, 6 p. 1948? 275.29 W522G

COFER, E., and FRAME, L. W. The family's health plan. W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 5, 6 p. 1948? 275.29 W522G

HUMPHREYS, G. Houses for happy family memories. W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 6, 6 p. 1948? 275.29 W522G

HUMPHREYS, G. The human side of world affairs. W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens, Lesson 7, 8 p. 1948? 275.29 W522G

Wisconsin University, College of Agriculture, Agricultural Extension Service, Madison

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Agricultural extension in Wisconsin; report for 1947. Wis. Agr. Col. Ext. C. 380, 32 p. July 1948. 275.29 W75C

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Meats in our meals. Wis. Agr. Col. Ext. C. C. 4-H 61, 24 p. Oct. 1948. 275.29 W75Cf

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. What D.H.I.A. [Dairy Herd Improvement Association] cow testing can mean to you. Wis. Agr. Col. Ext. Spec. C. 4, rev., 4 p. Oct. 1948. 275.29 W75S

MELOCHE, G., and PEARSON, H. When you sew. Wis. Agr. Col. Ext. Spec. C. 5, 6 p. Aug. 1948. 275.29 W75S

MELOCHE, G., and PEARSON, H. You and your pattern. Wis. Agr. Col. Ext. Spec. C. 6, 6 p. Aug. 1948. 275.29 W75S

MELOCHE, G., and PEARSON, H. Fitting a garment. Wis. Agr. Col. Ext. Spec. C. 7, 6 p. Aug. 1948. 275.29 W75S

MELOCHE, G., and PEARSON, H. The waist [in sewing]. Wis. Agr. Col. Ext. Spec. C. 8, 6 p. Aug. 1948. 275.29 W75S

MELOCHE, G., and PEARSON, H. The skirt [in sewing]. Wis. Agr. Col. Ext. Spec. C. 9, 6 p. Aug. 1948. 275.29 W75S

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Range shelters for Wisconsin flocks. Wis. Agr. Col. Ext. Stencil C. 228, rev., 8 p. Nov. 1948. 275.29 W75B

MOORE, J. G. Lawns. Wis. Agr. Col. Ext. Stencil C. 244, rev., 18 p. Dec. 1948. 275.29 W75B

WISCONSIN. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Selecting, seasoning, using home grown lumber. Wis. Agr. Col. Ext. Stencil C. 276, rev., 16 p. Dec. 1948. 275.29 W75B

STILLMAN, G., and PRICE, W. V. Cottage cheese at home; how to make it, how to use it. Wis. Agr. Col. Ext. Stencil C. 280, 6 p. Oct. 1948. 275.29 W75B

VAUGHAN, R. E. Prevent potatoes sprouting. Wis. Agr. Col. Ext. Stencil C. 281, 2 p. Oct. 1948. 275.29 W75B

LAROCK, M. J., and BRUHN, H. D. Corn storage on Wisconsin farms. Wis. Agr. Col. Ext. Stencil C. 282, 25 p. Oct. 1948. 275.29 W75B

MOORE, J. G., and COMBS, O. B. Growing onions in Wisconsin. Wis. Agr. Col. Ext. Stencil C. 283, 13 p. Dec. 1948. 275.29 W75B















BOUCHARD DEAU C	32799	BRINCK P	38523	BUNLE	40429	CALLOT J	38185
BOUCHER G P	32817	BRINCK P	38524	BUNLER C R	39121	CALLOT J	38186
BOUCHER R V	41421	BRINDLEY P	39407	BUNH R P	37770	CALVACHE A	40921
BOUCLIER	39174	BRISON F	34442	BUIATTI P G	36973	CALVIN M	33484
BOULAIS J	33982	BRITISH COLUMBIA DEPT OF		BUINING A F H	32883	CALVINO M	33016
BOUMA G J A	39872	AGR 41307		BUJATTI G	36808	CALVO C A	37483
BOURDON	38812	STATIS BR	39168	BUKASOV S M	34867	CALZONE F	39610
BOURDON	37792	BRITISH SULPHATE OF AM		BULIN F	34868	CAMARA A DE A	41205
BOURDON	40043	MONIA FED 35719		BULL S	36291	CAMARA ALGODONERA DEL PERU 32611 J C	
BOURGIN P	36489	BRITTEN R H	41016	BULLMANSEW G	34007		38187
BOURNE G H	41200	BRITTON M E	32959	BULLOCK A A	38838		
BOURNERIAS M	32797	BRIWA K	41204	BULLOCK A A	32839	CAMERON A E	37651
BOURQUIN F	38388	BRIWA K E	59875	BULLOCK J F	35353	CAMERON J A	36521
BOURQUIN F	38389	BRIWA K E	40149	BUNCE E W	36520	CAMERON J A	34194
BOURQUIN F	38390	BRIWA K E	40413	BUNTING A H	40182	CAMINOPETROS J	39408
BOURQUIN F	38391	BROADFOOT W C	33095	BUNUAN V G	40370	CAMP B	40989
BOURQUIN F	38392	BROCHARD M E	36700	BUNNAUTO G	33819	CAMP W H	35138
BOURRELLY P	32958	BROCKETT J E	40784	BUNNAUTO G	40715	CAMPBELL A B	33175
BOUSCARY A	34237	BROCKMAN W E	40459	BURBACK H J	33820	CAMPBELL D	37443
BOUSQUET V W	35930	BRODEN A D	38743	BURCH D S	37577	CAMPBELL D H J	32920
BOUVIER M	37646	BRODERICK R E	36037	BURD H A	39788	CAMPBELL I J	35356
BOVEY P	37647	BRODY S	33303	BURDETT J H	34498	CAMPBELL J A	39612
BOVIEN P	37648	BROMFIELD L L	33818	BUREAU OF RAILWAY ECON		CAMPBELL J A	38460
BOWEN J W	36036	BROMFIELD L W	40713		35973	CAMPBELL J A	34873
BOWEN O G	40940	BROMLEY S	34495	BURK J V D	39272	CAMPBELL J A	34874
BOWEN J F	39416	BROOK E I	36086	BURGER C	36039	CAMPBELL J A	34875
BOWEN K A	37000	BROOK E I	36887	BURGER H	35902	CAMPBELL J B	33822
BOWERS J L	34860	BROOKBANK E B	40138	BURGER H	35963	CAMPBELL J C	34876
BOWLAND J P	37554	BROOKE J	35312	BURGER H	35963	CAMPBELL J C	39710
BOWLING G A	36519	BROOKS A R	38087	BURGESS R H	35931	CAMPBELL J C	40940
BOWMAN F F	41354	BROOKS F A	33011	BURGESS O B	33290	CAMPBELL J J R	33507
BOWMAN F T	34250	BROOKS J O L	40245	BURGESS O B	35055	CAMPBELL J J R	39336
BOWMAN R	41090	BROOKS J O L	33724	BURGISSER H	37180	CAMPBELL L	33219
BOWMAN R G	40827	BROOKS R D M	36010	BURKART E	35757	CAMPBELL L E	38560
BOXLER B	38583	BROOKS R M	33457	BURKART E	35837	CAMPBELL R H	39768
BOYCE S G	32833	BROOKS W W	35530	BURKE J D	36632	CAMPBELL R S F	37443
BOYD G A	38968	BROOKS W W	38635	BURKE O D	34869	CAMPBELL R W	34255
BOYD J C	39489	BROOKS W W	38957	BURKHART R L	37476	CAMPBELL T M	32730
BOYD O C	33224	BROOM J C	37075	BURKHART C E	39169	CAMPBELL W W	40717
BOYER C I JR	36885	BROOMHEAD R	40246	BURKHART C E	40022	CAMPOS F A DE M	41206
BOYER F	32749	BROTHERTON R A	38558	BURKLEY R H	38253	CAMPOS ONETTI R	37557
BOYER J M	40591	BROTO A DE	33779	BURLINGAME B B	39948	CANADA BUR OF STATIS	
BOYLE E J	41201	BROUARDEL J	33639	BURMESTER C M	37249		
BOYNTON D	33454	BROUSSE H	38813	BURNETT D JR	38089	CENSUS OF INDUS	
BRACHMANN	39077	BROUWER E	39571	BURNHAM G T	34008	FOREST PROD STATIS	
BRACHMANN NAGEL E	35755	BROUWER T	39335	BURNS K V	40988		
BRADBURY C J	36806	BROWDER W J H	38646	BURNS L	33938	INDUS AND MERCHANDISING	
BRADFIELD A E	39190	BROWN A H	33484	BURN M	38397	D IV	
BRADFORD B	37937	BROWN A L	35054	BURN M	38490	GEN MFRB SECT 39194	
BRADSHAW G B	35538	BROWN B I	40247	BURRELL A B	33014	CANADA DEPT OF LABOUR	
BRADT C G	36688	BROWN B L	41092	BURRESS C G	38564		
BRADT C G	36699	BROWN C M	34865	BURRIS R S H	41264	CANADA FOREST SERV 32844	
BRADY D E	40148	BROWN E B	38183	BURROUGHS W H	36632	CANADA FOREST SERV 36109	
BRAESTRUP P W	41202	BROWN E B	38183	BURROUGHS W H	36633	CANADIAN AYRSHIRE BREED	
BRAEDON J H	37379	BROWN G D	41267	BURSTROM M	33459	ERB A880C 36522	
BRAIDOT S	39270	BROWN H D P	40484	BURTON F	37250	CANADIAN PHYTOPATH SOC	
BRANAMAN G A	36629	BROWN H J	36072	BURTON F	37251		
BRANAS J	33245	BROWN J G	33615	BURTON G W	33821	CANDURA G S	38254
BRANCH L E T	37424	BROWN L	36630	BURTON H M	39493	CANDURA G S	38255
BRANCH T P	38916	BROWN L C H	36038	BURTON L V	33990	CANDURA G S	38256
BRANDARIZ C	36886	BROWN P H	38892	BURTON L V	39122	CANESSA S	37558
BRANDENBURG E	33093	BROWN R T	37005	BURTT B L	32840	CANFIELD D R	39789
BRANUL M	33662	BROWN R T	35441	BURTT B L L	32841	CANHAM A S	36702
BRANDLY C A	37200	BROWN R T	35467	BURTT B L L	32842	CANNON P R	41207
BRANDNER E L	35053	BROWN S C S	38393	BURVILL G H	35619	CANO A F	37584
BRANDNER H P	35801	BROWN S C S	38394	BUSAROV N A	34253	CANO F	37652
BRANDON U	38884	BROWN T T	37248	BUSCH	36292	CANON J J	41170
BRANDON D	38885	BROWN T T	40248	BUSCH L V	33097	CANONGE H	40488
BRANDON G E	40783	BROWN V H L	35638	BUSCH W	40716	CANONGE H	40790
BRANDT H	37955	BROWN V H L	33324	BUSH F A	34009	CANONGE H	41094
BRANNAN C F H	38917	BROWNE G A	41168	BUSH R	33015	CANTER D	36374
BRANNON C D H	41091	BROWNING A B M	33535	BUSH R	33098	CANTERBURY AGR COL	39029
BRANSBY E R	37649	BROWNING A B M	39815	BUSH R	34254	CANTINO E C	33460
BRANSFIELD W J A	41203	BROWNING A B M	35212	BUSH R	37650	CANTONNET F	37959
BRANTINGHAM J A	33455	BRUYER C	32837	BUSH W D	36040	CAPEL W C	39855
BRANZANTI E C	34340	BRUCE E A	32889	BUSSE L	41256	CASDIABANCO M	38378
BRASE K U P	34111	BRUCE T A	37441	BUSTOS CASTELLANOS J			
BRASHER E P	38252	BRUCE J	38559		38182	CAPULER B	34878
BRATTON C A	34341	BRUCE W H	38831	BUTLER A W C		CAPULER B	33823
BRAY A C	34861	BRUCHARD M DE	35961	BUTLER K D	40057	CARAFFINI E	36869
BRAY D	40845	BRUECK D	40714	BUTLER L	36935	CARAYON J	38257
BRAY E	33225	BRUGGEMANN H	37525	BUTLER I	39609	CARDENAS M	37331
BRAY R	33240	BRUGGEMANN H	36631	BUTTERFIELD H M	34010	CARDIM W H	36703
BRAY R H	37555	BRUGGEMANN H	38093	BUTTIKER W E E	34344	CARDINALI B	33692
BREAZELTON J S	34005	BRUGGER J	38088	BUTTNER E E E	38183	CARDONNE P	39088
BREAZELTON J S	35424	BRUNH H D	40007	BUTTNER E E E	36086	CARENA A	38668
BRAZIL INST NAC DO MATE	33456	BRUNDAGE M R	36207	BUTTNER E E E	36293	CARESS U	34500
	39873	BRUNE G	35618	BUTTON D	37252	CARHART A H	37960
	41355	BRUNEAU J	38522	BUTTON D	40339	CARINUS J G	39273
		BRUNER L L	34343	BUTYRA SCHWEIZ ZENT		CAHLEE H	34501
		BRUNER W L JR	40129	BUTTERVERSORGUNG		CARLETON R M	34502
		BRUNSE F	40536	BUTYRINA P S		CAHLIER L	35692
		BRUNSE F	33012	BUTZ V		CARLONE H	34113
		BRUNSE F	39785	BUXBAUM F		CARLO J A DE	38258
		BRUNSE F	39786	BUXTON S R		CARLO J A DE	38259
		BRUNSE F	39430	BUXTON J C		CARLSEN B	41339
		BRUNSE F		BUZAS A		CARLSEN E W	39856
		BRUNSE F		BUZULIN G S		CARLSON F W	38260
		BRUNSE F		BUZULUKOV P P		CARLTON H	39876
		BRUNSE F		BYERLY T C		CARMAN G E	37678
		BRUNSE F		BYERS S O		CARMICHAEL J M	38908
		BRUNSE F		BYNGHAM D		CARNACROSS J W	39274
		BRUNSE F		BYNNE E K		CARNACROSS J W	39711
		BRUNSE F		BYRNE R J		CARNACROSS J W	40447
		BRUNSE F				CARNEVALE J A	34417
		BRUNSE F		CABOT T O		CAROLINE M	41309
		BRUNSE F		CABRIO G		CAROLUS H L	34879
		BRUNSE F		CADZOW R A		CAROLUS V DE	40538
		BRUNSE F		CAILLAS A		CAROLUS V DE	40538
		BRUNSE F		CAILLAU G		CAROLUS V DE	40538
		BRUNSE F		CAILLET J		CARPENTER F H	40719
		BRUNSE F		CAIN R F		CARPENTER F R	40847
		BRUNSE F		CAIN S A		CARPENTIERI F	33939
		BRUNSE F		CAIN S A		CARR R B	33940
		BRUNSE F		CAIRASCHI E A		CARR R B	41208
		BRUNSE F		CAIRASCHI E A		CAHARRA S J L	34880
		BRUNSE F		CALAN L O E		CAHARRA S J L	33101
		BRUNSE F		CALCUTTA COM MUSEUM		CAHARRAS PALET J	39613
		BRUNSE F		CALDERONI A C		CARRIER L	35621
		BRUNSE F		CALDERONI G		CARROLL W E	36291
		BRUNSE F		CALDWELL A C		CARROLL W E	36294
		BRUNSE F		CALDWELL J		CARSE G M D	40058
		BRUNSE F		CALHOUN J L		CARSON B L	41258
		BRUNSE F		CALIF AVOCADO SOC		CARSON C M	34011
		BRUNSE F		CALIF DEPT OF AGR		CARSON T	39607
		BRUNSE F		CALISTI V		CARTE E	38398
		BRUNSE F		CALKIN R V		CARTER D G	38814
		BRUNSE F		CALL A B		CARTER G A J	34012
		BRUNSE F		CALLBECK L C		CARTER G H	39917
		BRUNSE F		CALLENBACH E W		CARTER H F	38188
		BRUNSE F		CALLIBON E C		CARTER J E	34503
		BRUNSE F		CALLOT J			







CURCIZO M F	37392	DEAN A R	36100	DIENER H	35902	DREWRY D	37263
CURCIO M F	37391	DEAN B	36150	DIEPOLDF M F	35964	DREWRY O	37264
CURL A L	39779	DEAN F P	37897	DIERFELD F	38770	DREYER J A	40922
CURL A L	39881	DEAN H A	38496	DIESEL A M	36716	DRICOT C	38693
CURMOW D H	36352	DEAN R W P	38404	DIETER C E	35682	DRIESEITL H	33024
CURTIM L V	37536	DEBACH M	38285	DIETRICH V	35760	DRIESS E	32800
CURTIS C H	34116	DEBACH P	38266	DIETRICH H	37968	DRIGGERS J C	37185
CURTIS C H	40341	DEBACH P	38267	DIETRICH E J	38265	DROGEMULLER	41262
CURTIS J T	33306	DEBACH P	38268	DIETRICH C W	36183	DROMEY L	37443
CURTIS J T	33307	DEBACH P	38264	DIETZ S M	33111	DROSDOFF M	33540
CURTIS PUB CO RES DE PT	33307	DEBRAY M	41360	DICK D V	39857	DROSDOFF M	35415
37656		DEBRESSE H	37586	DILLANIAN Z	39499	DROSDOFF M	35467
CURTIS R W	34525	DECHAMBRE P	36927	DILL M H	34537	DROSDOFF M	35441
CURTIS O F	33498	DECKER B E C	40998	DILLEMAN G C	33473	DROUHET E	33474
CUSHMAN J E	36533	DECKER G C	37659	DILLEWIJN C	33966	DRUCE P C	38772
CUTAK L	34526	DECKER G C	38095	DILLMAN A C	39620	DRUMMOND O A	35066
CUTHBERTSON D G	40342	DECKER G C	38493	DILLMAN H S	39884	DRYDEN W A	36814
CUTHBERTSON W F J	39009	DEE W E	35367	DILLON E	37969	DUBBEL R W	40114
CUTLER H C	33334	DEER I O	37485	DILLON J L	34538	DUBBY K R	39036
CUTLER M C	33334	DEGENER O J	34533	DILLON J L	34539	DUBIANSKI V A	35540
CUTRIGHT C R	37728	DEGRYSE J J	37660	DILLON L S	37969	DUBININ N P	38096
		DEHART P H	35368	DILLS L E	38406	DUBOIS	35796
DA COSTA G C	32972	DEIGHTON G M	34534	DIMIC J M	36717	DUBOIS W L	39201
DAOSWELL M E	35918	DEIX R	36640	DIMMICK T B	39035	DUBOULOZ P	40188
DAHL N J	35534	DEKARA	40852	DIMOCK A W	33112	DUBRET R	35822
DAHLBERG A C	41261	DE KLERK J C	39617	DIMOCK W W	36975	DUBRET R	36243
DAHLE R	41098	DE KLERK J C	39618	DIMOND A E	33113	DUCHAUFOUR P	33308
DAHLGREN K V D	32859	DE KLERK J C	36299	DIMOND A E	33114	DUCK R W	37514
DAHLQUIST N	37467	DELAForge O	37054	DINGER J E	38193	DUCK R W	40797
DAHM P A	37657	DELAForge O	37055	DINKLA P E	38771	DUCCOFF L J	40967
DAINES P	40697	DELAForge O	37527	DINNING J S	36641	UDCOTE K J	40376
DAIRY INDUS COM	39275	DELAForge O	37587	DINSDALE D H	40794	DU COURTILS C	34549
DAKAN E L	37087	DELAFORE DEBOUTTEVILLE C		DINSDALE D H	40795	DU COURTIL G C	34896
DAKERS J S	34527	38526	37661	DINSMORE W	37012	DUDENEY P	35541
DAKERS J S	34528	DELANOUE P	37187	DINTER Z	37189	DUDLEY R F	38723
DAKERS J S	35535	DELAPlane J P C	37187	DIRKS V A	33683	DUFEY	38793
DALE A C	38893	DELAURENTI J C	40999	DIKEY R N	33837	DUFFEE H Z	35522
DALGAS F	36334	DELISLE H	36182	DJAEHOEDIN P A	37190	DUFFIE H Z	35522
DALLAS J E	36181	DELLIVRAN J	40853	DMITRIY N P A	35229	DUFRANE A J W	32861
DALLAS T E	36767	DELLEPIANE CALLI A D		DOAK B W	34894	DUFRANE A J W	38409
DALLING T	36713			DOAN F J	35369	DUFRESNE J	35258
DALLIMORE W	38060	DELPLACE E	34535	DOANE D H	39551	DUFRENOY M L	34017
DALLMASSO G	34351	DELUCO G	33701	DOBB A D	40601	DUGGAN I W	41100
DALLMASSO G	34353	DEMAIN A L	39762	DOBBIN H	41430	DUGGAR B M	33484
DALLMASSO G	39776	DEMARIA MASSEY D	39882	DOBBIN H	40728	DUKE H	36889
DALLMASSO G	40851	DEMBSINSKI J	32740	DOBBIE J F	36381	DUKHAMAN K B	34123
DALRYMPLE C	40725	DEMBSINSKI J	40726	DOBROGORSKI V I	34895	DULAC J	33530
DALY I DE B	36889	DEMESWAY H	34891	DOBYNS W S	34540	DULANEY E L	32742
DALY R	35364	DEMESWAY H	34893	DODD A P	35065	DULEY F L	35629
DALZELL A	36870	DEMETER K J	39410	DODD O R	33838	DULUTH BD OF TRADE	39982
DAM H	37137	DEMICHIELIS L A	37011	DODD J D			











ITEM	ITEM	ITEM	ITEM
GRIGSON G	34592 HAGMANN L E	38110 HARTH TERRE L	34923 HENDERSON H B
GRIGSON G	35077 HAGOOD P J	40967 HARTMAN J	39288 HENDERSON T G
GRILLOT G	33714 HAGOOD P	34599 HARTMAN R C T	40268 HENDRIX J W
GRILLOT G	35302 HAIBEL J	38720 HARTNACKE C	40739 HENING J C
GRIMM W	35768 HAIG D A	36898 HARTNETT D E N	41107 HENKEL H
GRIMSLEY C J	41161 HAILLOU R G	33134 HARTOG C DEN	41219 HENNERICH G W
GRINDAKER C F L	39283 HAINSWORTH R G	40579 HARTZLER E	41272 HENNING P JR
GRINSTEAD F L	37077 HAISCH	40516 HARVEY B H	35262 HENNINGSEN MRS H G
GRISON P	37995 HALCROW H G	40517 HARVEY C C L	36823 HENNRAD C
GRISON P	37996 HALCROW H G	40518 HARVEY H L D	37297 HENRY C M
GRISON P	35905 HALEVI C	37004 HASE A	38216 HESS H
GROCHOWSKI J	35233 HALL A G	36764 HASE A	38002 HENRY A W
GROGGER H	34027 HALL A J	33484 HASE A	38003 HENRY P
GROH W	36212 HALL C B	39641 HASEL A A	35770 HENSLEY
GRON A M	36145 HALL C B J VAN	33340 HASKINS A L	33485 HENSLEY G B
GRONDAL B L	41268 HALL C J	33495 HASSELBYSTROM T	36117 HENSLEY H C
GROOT E H	40626 HALL C M	34362 HASSENSTEIN J	38959 HENSON W R
GROOT G U E	33039 HALL C M W	38983 HASSLER K	38531 HEPBURN G A
GROOT M D E	36964 HALL H W	40179 HASTADUS N	33946 HEPBURN J M
GROSS M	37532 HALL I F	40231 HASTINGS E C R	39042 HEPBURN J M
GROSSMAN O H J	39992 HALL I F	36552 HASTINGS W R R	34031 HEPBURN N
GROSSMAN A	36448 HALL J	40519 HASTINGS W R R	34032 HEPPERLY A K
GROULADE P P	39431 HALL J A	40628 HASWELL J R	35552 HEPPLESTON A G
GROULADE P P	37808 HALL J E L	40971 HASWELL J R	38564 HEKNANDEZ T
GROUT R	34593 HALL J L	35864 HATCH M H	38004 HEKNANDEZ MENDIRICHA G A M
GROVE L C	34594 HALL J S	35935 HATCH M H	38005 35773
GROVER E D	40549 HALL L A	40152 HATCH R D	36733 HERNANDEZ MORALES F
GROVER E D	32978 HALL M M	34600 HATHAWAY M L	41273 HERNANDEZ XOLOCOTZI E
GROVES J W	33099 HALL R A	39126 HATT J	38715 39995
GROVES J W	33132 HALLANDER A	37278 HATTON J G	38984 HEROLD G
GROVER J W	35844 HALLAURE J L	39206 HATZFELD G H	37381 HERRE H
GROVER J W	39575 HALLER H L	33886 HAUBRICH G W R	36734 HERRICK A C
GROVER J W	40627 HALLER R	41008 HAUCK J F	39727 HERRING G C
GROVER J W	37554 HALLGREN G J	39207 HAUCK J F	39728 HERRMANN H
GROVER J W	32749 HALLIDAY D E R	37679 HAUCK J F	39849 HERRMANN L
GRUBER M	34126 HALLLOWELL E R	38782 HAUSHOFER H	41012 HERSHEY J W
GRUBER M	35158 HALMA F F	35591 HAUSNER F	34605 HERSHEY J W
GRUBER M	37020 HALMA F F	33496 HAUSRATH E	34925 HERSTEIN K M
GRUBER M	39284 HALPERIN B N M	39127 HAUSSMANN G	40197 HERTIG M
GRUBER M	40433 HALBURGER J L M	34211 HAUVILLE A	35643 HERTIG M
GRUBER M	34589 HAWERSMA J L M	34212 HAUVILLE A	39801 HETRICH W
GUDA J	35845 HAWES R C	37380 HAVENGA C M C R	37508 HERVEY C
GUEDES M	40736 HAWILTON H M	34501 HAVENGA C M C R	39439 HERWIG W E
GUEDES M	40196 HAWILTON W F	37502 HAVILAND E E	38353 HESS H
GUEDES M	37276 HAWILTON W J JR	40867 HAVINGA E	33497 HESTER J B
GUEDES M	34208 HAWILTON W J JR	33349 HAVIS L	34271 HETHERINGTON E
GUERRANT N M B	41269 HAMMOND W M	33135 HAWAII COMM OF PUB LANDS	39927 HETTRICK J H
GUERRANT N M B	36400 HAMMONDS C L	36914 AND SURVEYOR 40740	40269 HEUBERGER J W
GUERIN B	37997 HAMMOND E O	41317 HAWES J E	36644 HEUER E F
GUERIN B	40231 HAN N	41009 HAWES R C	34606 HEUSER G F
GUERIN B	36897 HANAU A	38212 HAWKE F	34607 HEUSER G F
GUERIN B	37999 HANAU A	33666 HAWKES A D	34608 HEWETSON F N
GUERIN B	41106 HANCHETT R	37663 HAWKES A D	34609 HEWITT A C T
GUILLBAUD J	40865 HAND J A	38421 HAWKES A D	34533 HEWITT S P
GUILLBAUD J	37809 HAND J A	35780 HAWKES A D	35395 HEWITT W B
GUILLBAUD J	34425 HANF M	39091 HAWKES A V	37021 HEWITT W B
GUILLBAUD J	38211 HANF M	40666 HAWKINS A	38590 HEYER J
GUILLBAUD J	32946 HANGLIN P J	41010 HAWKINS J D	40245 HIBBARD A D
GUILLBAUD J	36152 HANKINS J E	40347 HAWTHORNE F J R	33623 HIBBARD A D
GUILLBAUD J	41317 HANLEY J F	33488 HAWTHORNE J R	39043 HIBBS J W
GUILLBAUD J	33650 HANNA C M	33041 HAXO F	33624 HICKEY J C
GULIAEV L M	34920 HANNA G C	38001 HAY M	34610 HICKEY J C
GULLIGHSEN M	36044 HANNA J	37363 HAY R E JR	39833 HICKMAN C W
GUNDERSON H N	38108 HANNAH A E R T	41011 HAY T	39643 HICKOK R B
GUNDERSON H N	38425 HANNAH R T	38059 HAYES K M	37146 HICKS E W
GUNN G O	41367 HANNAH W T H U	40866 HAYES L A	33230 HIERHOLZER O
GUNTHER F A	36731 HANNIBAL F E	34922 HAYES T B	39802 HIETT A D
GUNTHER F A	35393 HANSELL D P E	35243 HAYES W	41108 HIGGINS A
GUNTA R S	38375 HANSEN S A P J	33175 HAYES W	37093 HIGGINS B
GURLEY S N	33568 HANSEN S A P J	37145 HAYNES K H	35553 HIGMAN H W
GURNETT SMITH A F	33347 HANSEN S A P J	41270 HAYS F A	40925 HILAIRE F L
GURNEY A B	38530 HANSON J A	41368 HAYS J B	34611 HILBERT F L A A
GURRIER V	35684 HANSON J A	41271 HAYSTEAD L	36027 HILDEBRAND A A
GURSTEIN B	37280 HANSON R P	34602 HAYWARD E F	39282 HILDEBRAND A A
GURSTEIN B	39724 HANSON R P	37553 HEACOX E F	39282 HILDEBRAND A A
GURSTEIN B	37470 HARDER R	38380 HEACOX E F	39282 HILDEBRAND A A
GUSLER G	39285 HARDERS STEINHAUSER M	37279 HEAN A F	33137 HILDITCH T P
GUSLER G	39993 35160	37280 HEBB C O	36889 HILDOITCH T P
GUSLER G	40264 HARDIN L J	37200 HEBERLE R	40550 HILF H H
GUSLER G	40801 HARDIN L S	33350 HEBERT J	35685 HILGENDORF C
GUSTAFSON A F	37199 HARDY E	HECKENBERGER	34128 HILKENBAUMER F
GUTHRIE E S JR	41317 HARDY K	HEDGE P	41179 HILKENBAUMER F
GUTHRIE E S JR	39508 HARDY R M	HEDIN L	33310 HILL F W
GUTHRIE E S JR	38223 HARDY W D	36553 HEDLUND E C	40198 HILL G R
GUYATT R H	39640 HARDY W M	33783 HEDOU J	34926 HILL M
GUYMON J F	34921 HARE T	38721 HEDRICK T I	39287 HILL M D
GUYON G	39016 HAREN S	34029 HEDRICK U P	40965 HILL W R
GUYOT A L	33040 HARGRAVE P D	33851 HEDE K	36046 HILL W W
GUYOT A L	33133 HARGREAVES R A	35639 HEER A	36965 HILLERY B E
GUYOT A L	39778 HARING	36899 HEERMANCE E L	35771 HILLS C H
GUZMAN C J M	38901 HAKING R C	38698 HEFELE	37491 HILTON E P
GUZZINI D	39725 HAKKOM J F F	34030 HEFELE	37592 HILTON R J
GWAN J M	40265 HAKKOM J F F	39642 HEFFER K C	36871 HILTON R J
GWAN J M	36045 HARLAN P W	40348 HEGDAL L L	37682 HILTZ P
GYNN G	41007 HARMANSON L J JR	35079 HEID J L	39779 HIMBEECK C VAN
GYORFFY I	33400 HARMANSON L J JR	36081 HEID J L	39899 HINCKES W D
GYORFFY J	38000 HARMON F N W	36082 HEIDOMANN R	38288 HINDENBURG K G
GYORFFY J	38351 HARMON R A	33042 HEIM B	40741 HINDMARSH W L
HAAG M	36821 HARMON R A	38783 HEIM R	39299 HINEIDY M E
HAAS A R C	33922 HARNEY V A	39041 HEIM R	33043 HINTON D R
HAAS V A	33493 HARPER H J	34363 HEINEMANN H B	39440 HINTON J J C
HABEL R E S	33484 HARPER H J	37680 HEINILD S	41220 HINTON J J C
HABER E S	36401 HARPER V L W	33351 HEINRICH S P	39900 HIRAI S
HAADEN M G	34993 HARPER V L W	36732 HEINRICH S P	34364 HIRMAN E
HAADEN R P	34596 HARRINGTON A M	38589 HEINRICH S P	37683 HIRSCH A
HAADOCK J L	40231 HARRINGTON L	33715 HEINROTH K	37094 HIRST E L
HAADON E	33970 HARRIS E H	38971 HEINROTH K	38283 HIRST E L
HAADON E	40378 HARRIS J H	35769 HEINZ K	34927 HITCHCOCK J D
HAADON E	38109 HARRIS L D	40758 HEINZ K	40466 HITCHCOCK O B
HAADRELL B	34597 HARRIS M R	39286 HEISER C B JR	40467 HITCHINS P E N
HADLEY W S	40141 HARRIS R H	37262 HEIZER J M	35846 HITZ C W
HADLOCK R W	38843 HARRIS S	36308 HEIZER J M	36309 HJELTNES K A
HAFFENRICHTER A L	33849 HARRIS T M C M	36822 HELLBERG A	36982 HOAGLAND D R
HAFFERT W A JR	40266 HARRISON C M W	39994 HELLBUSCH C E	35738 HOAGLAND D R
HAFFERT W A JR	35722 HARRISON C M W	33643 HELLBYER A G L	34033 HOAK C M
HAGANDER	40737 HARRISON J W M	37385 HELLBYER A G L	34034 HOAK C M
HAGE K	36551 HARROLD L L	33852 HELLBYER A G L	34612 HOAK C M
HAGEDOORN A L	35078 HAKSHBARGER G	34603 HELM G W VAN DER	34365 HOAK C M
HAGEN C	38269 HAKT E	35640 HELMAN M B	36679 HOAK C M
HAGEN K S	38352 HAKT J F	38426 HELMHOLZ H F	41221 HOARE E R
HAGEN K S	36950 HAKT S M	35641 HEMKER W D	38921 HOBINGER E
HAGEN K S	34598 HAKT T S	34604 HEMMING C S	41014 HOBBSON K
HAGEN W A	36402 HAKTEL O	35642 HEMPEL K	34426 HOCKAPPEL W
HAGGARD G E	38920 HAKTEL O	40520 HENCH P S	36047 HOCKENYOS G L
HAGLUND G E	38270 HAKTFORD J A	32751 HENDEL C E	38190 HOCKEY J F
		36213 HENDERSON A E	39780 HOCKEY K C
		37681 HENDERSON E S	39644 HOCKING B
		39092 HENDERSON E W	33947 HODGE C M
			37201 HODGES E M







JOUBERT A J	33945	KEVAN D K	38015	KNOWLTON G F	37501	KULASH W M	37700
JOUBERT L	37009	KEVAN D K	38016	KNOWLTON G F	38543	KULASH W M	37701
JOUBERT L	37010	KEVORKOV A P	35404	KNUDSEN S	39292	KULP D A	36083
JOUGAN E	33047	KEYS A	39357	KOCH W	33350	KUMETAT K F	41281
JOUGAN E	33048	KHANNA K L	40380	KOCH W	36749	KUMMEROW F A	40203
JOUGAN E	33049	KHOKHLOV V N	41371	KOCHAN W F	37029	KUMMEROW F A	40207
JOUGAN E	33148	KHOKHLACHEV	37027	KOCZERA F	39386	KUMDRAT	39523
JOUGAN E	34136	KHOMENKO V S	36408	KOEHLER B	33743	KUNHEIM P	41374
JOUGAN E	34137	KHOSHOO T N	33405	KOENIG N	40637	KUNKEL	34851
JOUGAN E	34280	KHIVATOV A K A	34738	KOENIG N H T	40637	KUNSTMANN F W	35718
JOVET P	34808	KINOM	34744	KOESTER E L	39049	KUNTZ A	37382
JOVET P	32881	KIENHOLZ J R	33149	KOESTER E L	39049	KUNTZ J E	40522
JOVET AST S	32948	KIEFERLE F	39347	KOESTLER G	39519	KUNTZ J E	35032
JOVET AST S	32949	KIEFFER RICH M	39219	KOESTLER G	39530	KUNZE E	40132
JOVET AST S	33356	KIESEL BACH A	34283	KOGAN P M	40555	KUPKA H	32927
JOYCE J	33972	KIESEB A H	39769	KOGANE CHARLES M	33605	KUPKA H	33510
JOYCE J J	35082	KIESEWETTER H	37291	KOGER M	37412	KUPKA H	37702
JUANA SARDON A DE	38651	KIKER C C	38214	KOLLS R L	40280	KURAPOV P M	37567
JUAREZ MONTEGRIFO F	33973	KIKUTA K	34911	KOHMAN E F	41280	KURIR A	38440
JUDD W	37617	KILBY W W	35162	KOIE M	33359	KURON H	35511
JUDGE W	36494	KILDEE M H	36563	KOLAR J	36171	KURSTEINER J	39419
JUGENHEIMER R W	33743	KILDEE M H	40074	KOLAR R	39521	KURTH E F	36089
JUGUET E	35403	KILLIAN W	34046	KOLBE R W	32962	KURTZ T	35424
JUKES T H	36315	KILLICK C H P	39418	KOLBE R W	33355	KUSCH A G	33503
JUL M	41339	KILPATRICK J	36984	KOLESHNIKOV I T	35565	KUSHNIR T	34213
JULL M A	37100	KILPATRICK W C	40131	KOLESHNIKOV V A	34143	KUTZ D B	35979
JULL M A	37152	KIMBROUGH W D	39838	KOLIAKOV I A E	36411	KUYKENDALL J H	32899
JULL M A	37153	KIND H E	38472	KOLIASEV F E	35315	KUZMIN V P	33869
JULL M A	37289	KIND W F	38676	KOLKER S	38881	KUZMIN V P	34946
JULL M A	37290	KINDUFF T J	40158	KOLKER S	38882	KUZMIN V	38701
JULL M A	38847	KING A S	37028	KOLOMOITSEV A	37030	KUZNETSOV D V	36014
JULL M A	40276	KING C J	41372	KOMP W H W	38216	KUZNETSOV G S	37031
JULLIARD C	38357	KING E A	35163	KOMP W H W	38229	KUZNETSOV N N	33721
JUNGE K	34936	KING E A	32760	KONDRATENKO E R	38724	KUZNIAR K	35409
JUST T	32781	KING F C H	32761	KONDRATIUK N D	40745	KVAAL E	35410
JUUSELA T	35534	KING G H	35739	KONIG W	36237	KWONG K H	33974
		KING H	35405	KONING H	33865	KY AGR EXPT STA	34370
KADE J	33950	KING H E	33626	KONIS E	33479	KY U DEPT OF MKTS AND	
KAGAN R S	41285	KING H H	38319	KONOPLEV V F	34371	RURAL FINANCE	39291
KAHL N F	41021	KING H H	39140	KONOWALCHUK J	39336	KYLE A S	39653
KALASHNIKOV A P	34281	KING H L	38439	KON SHIN F V	40497	KYZLINK V	39909
KALCHSCHMIDT H G	36741	KING J	41203	KONSTANTINOVA A M	33866		
KALEN J MNER H	40152	KING J B L	34047	KOOS S	33509	LA FORCE O DE	36495
KALLBRUNN F	40534	KING J V	34131	KOFEZ L M	35408	LA PANOUSE DE	35778
KALLENBACH F	38438	KING J V	33507	KOPP L J	37292	LA RIVERS I	38300
KALLSTENIUS L	35908	KING R E	35406	KOPPEL C VAN	38983	LA ROCHE W VON	36319
KALMYKOV S S	34138	KING R E	34651	KOPROWSKI H	36412	LA VAULT R L	39645
KALMYKOV S S	34433	KING W A	33863	KORABLEVA L I	35236	LA VOLPE R	39860
KALOYERAS S	40277	KING W V	38215	KORBER F	36564	LAKE E W	38128
KALSER J	34647	KIPLINGER D C	33508	KORMILEV N A	38297	LAATBCH W	35411
KALTON R R	33951	KIPTENKO A	38820	KORN G J	34434	LABADIE E A	34660
KALTSCHMIDT W	35510	KIRBY R H	33785	KORNGUT J	36162	LABARTHE E A	37824
KAMBURON V	39516	KIRBY R H	39651	KOROLEV A M	39522	LABLANCHY A	39387
KAMEN M D	33484	KIRCHER W	34652	KORPOV V M	36413	LABLANCHY A	39388
KAMMERER E L	34043	KIRCHER R	34652	KORPOV V M	36414	LABOSSIER I	39654
KAMP J R	33504	KIRCHER W H	35084	KORPRICH H	36565	LABOSSIER I	41404
KAMP J R	34629	KIRCHER W H	35564	KORTKOVA A P	37043	LABOSSIER I	41405
KAN STATE BD OF AGR	39579	KIRCHER W H	39731	KOSAR W	33586	LABRIFFE L	40435
KAWS STATE BD OF AGR		KIRCHMEYER F	35407	KOSAREV M G	33867	LACEY J J	36657
40351		KIREEV A F	33312	KOSINSKY	39732	LACEY J J	37456
KANZLER H	36123	KIRIAKOFF S G	37618	KOSTLIN A	39581	LACEY J J	38849
KAPLAN A	35708	KIRK D E	38903	KOTTER	34942	LACHAT A	35412
KAPUR A P	38014	KIRK H	36903	KOTTER E	34144	LACHMAN W H	35086
KARISCH	39048	KIRK J W C	33051	KOTTER E	34943	LACKNER C E	39389
KARNATZ H	34139	KIRK L E	40001	KOUTONEM A	36186	LACOMBE H	35413
KARNATZ H	34140	KIRK R	38122	KOVACS J JR	38429	LADEJINSKY W I	40871
KARON M L	40204	KIRKHAM D	35215	KOVAL T A	35566	LADEJINSKY W I	40872
KARPER R E	33719	KIRKHAM J A	40278	KOVATITS L	33868	LADOIS G	38702
KARPOV G K	34141	KIRKOR S	37820	KOZHANOV D I	36014	LAFOREST G	35087
KARRER P	33648	KIRKPATRICK R C	35937	KOZLOVA F I	33406	LAFOREST G	35414
KARTACK MRS R E	34044	KIRKSEY G	36409	KOZULINA O V	38535	LARGARDE J S	37322
KARUMAKAR P D	34937	KIROVSKII B K	34939	KRABBE N	38700	LARGARDE J S	35156
KASAJU T B	34648	KIRSCHNER B	39652	KRACK K E	37497	LARGARDE J S	35164
KASCHULA V R	37026	KISHCHENKO T I	36013	KRACK K E	37823	LARGARDE J S	35415
KASHATANOV L V	36263	KISTLER P T	39580	KRAEMER E D	40930	LAUGAUDE H	40639
KASTENOTIECK M M	33508	KITAMURA J B	38273	KRANICK C F	41435	LAING J K	34838
KASTLI P	36742	KLANTKE C	35686	KRASNIUK A A	33720	LAIRING G	34049
KASTLI P	36743	KLECHKOVSII V M	41373	KRASNOPEROVA E G	34145	LAIRING J A	36751
KASTLI P	36744	KLECKOVA V	34304	KRASSKE G	32963	LAIRD E F	38483
KATTER JOHN M M	36562	KLEIN H Z	38294	KRATZER F H	36317	LAIZET	36566
KATZ E	33484	KLEIN J K	36921	KRAUCH H	35971	LAKING B	34661
KATZ MELSON H	37819	KLEIN L G	34284	KRAUCH H	35972	LAKING B	34662
KAUERT	4000	KLEIN L G	34653	KRAUS C H	37206	LAKING L	34661
KAUFFMAN E	35775	KLEINSCHMIDT E H	35288	KRAUS E J	34656	LAKING L	34662
KAWAI E	41022	KLEMFUSS M C	40635	KRAUS H	35850	LAKRITZ D E	40208
KEAGY H F	36950	KLEMM K H	36167	KRAUS G A	35954	LALANNE	38790
KEAGY H F	36951	KLENN M	37062	KRAUS H K	34657	LALL J W	36431
KEARN G	34045	KLETT W	37695	KRAUT H	41225	LALLEMAND	35809
KEATINGE G F	41023	KLEVAY L M	37101	KREGER R F	38923	LALLOY	38946
KECK D D	32882	KLIETSCH	35923	KREISER R F	39756	LAMB G N	36090
KECK G	41224	KLINE A B	40636	KREITLOW K W	33151	LAMBERT MRS L	39293
KELENBET T B	34282	KLINGELHOFFER	35924	KRESTNIKOV N V	36415	LAMBETH V N	33511
KELLER J C C	40205	KLINGER M	39518	KREUTZER F J	38848	LAMBORN O H	40381
KELLER K C	41183	KLINKENBERG C H	34372	KREUZINGER K G	38883	LAMBORN O H	40382
KELLER R	40153	KLINKOWSKI M	33052	KREVCENKO E D	34944	LAMMERT A	35316
KELLEY V W	37738	KLINTWORTH H	35202	KRICK I P	41434	LAMONTAGNE L	36216
KELLER W	33811	KLOCK A	35970	KRICKL M	34945	LAMP J	36238
KELLERMAN R	39417	KLOSTERMAN H J	35085	KRIDER J L	37536	LAMPITT L H	38988
KELLY A G	33862	KLOTZ K J	35849	KRIDER J L	37537	LAMSON M D	34663
KELLY C B	33050	KLOTZ L J	33150	KRIECHBAUM	38298	LANCASTER R J	36318
KELLY E M	37694	KLUSSENDORF R C	36746	KRISHNAMURTHY D	36750	LANCASTER R R	33870
KELLY G M	33649	KNAPPENBERGER J F	36747	KRISHNASWAMY N	33407	LANDALE M	34664
KELLNER A	33357	KNAPPE G	33358	KRIUKOVA A P	36904	LANDERKIN G B	32762
KELLNER A	32759	KNELLY A	33664	KRODEL F	34048	LANDERKIN G B	35265
KELNER A	33506	KNELLY A	33616	KROMBEIN K V	38359	LANDERKIN G B	35265
KEMENY V	38986	KNIGGE A FREIHERR	34940	KRONENBERG H G	34372	LANDIS B O	40640
KEMMER E	34142	KNIGGE A FREIHERR VON		KROSBY P	40352	LANDORIE D	38019
KEMPER H E	37906	KNIGHT D	36748	KRUEDENER A FREIHERR VON		LANDTSHERR M DE	33512
KENDRICK H	36872	KNIGHT G E	35776	KRUEGER W C	34658	LANFRANCHI A	36416
KENNAMER E	35889	KNIGHT R E	37431	KRUEGER W C	39050	LANFRANCHI A	36752
KENNARD D C	37205	KNIGHT T	39385	KRUGER G	41024	LANG A L	33743
KENNEDY A H	36952	KNIPPLING E F	38128	KRUITHOF A	41116	LANG F	40746
KENNEDY A H	36953	KNOCK F	34654	KRUKOVSKY V N	36662	LANG J	39582
KENNEDY D E	36147	KNOOT C B	36673	KRUKOVSKY V N	39348	LANG R	33922
KENNEDY W K	33952	KNOLLE W	36699	KRUM J	39889	LANGDELL M R	36050
KENNEL GAZETTE	36928	KNOOP F	36410	KRUSE E F	41339	LANGE P	35416
KENNEY R T	37366	KNORR L C	33232	KRUSE I	37137	LANGE W H JR	37619
KENT JAMES D W	38987	KNOTT J E	34941	KRUSEMEYER B	40521	LANGENAU E E	40196
KENT R	40434	KNOWLES P F	33953	KRUTZSCH	35851	LANGER P H	37476
KEPHART L W	35083	KNOWLES R H	34655	KRZYSIK F	36049	LANGERON M	33525
KERN C E JR	38675	KNOWLTON G F	37696	KUEMMERLING K	34659	LANGFORD G S	38020
KERN F	41115	KNOWLTON G F	37697	KUHL K	37698	LANGHAM D G	33408
KERN G M	40929	KNOWLTON G F	37821	KUHL R	37699	LANGHAM D G	33409
KERR C A	39517	KNOWLTON G F	37822	KUHN	37102	LANGHAM D G	33410
KERSHNIK P F	34650	KNOWLTON G F	37821	KUHN	32983	LANGHAM D G	33411
KERTESZ Z I	39770	KNOWLTON G F	37907	KUHNHOLTZ LORDAT G	32984	LANGHAM D G	33412
KESTER E B	40206	KNOWLTON G F	38017	KUHNHOLTZ LORDAT G	33152	LANGHAM D G	33413
KESTER W O	36407	KNOWLTON G F	38295	KUIKEN A	41886	LANGHAM D G	33414
KESTING W	41279	KNOWLTON G F	38296	KUIPERS J A	38240	LANGHAM D G	33415
KESTCHUM V	36146	KNOWLTON G F	38358	KUITERT L C	38299	LANGHAM D G	33416
KETTLEWELL H B D	38401	KNOWLTON G F					



33611	LEUNGAM D G	33412	LEHMANN A	36015	LINSLEY E G	37852	LUSH J L	33631	LUSH J L
33612	LEUNGAM D G	33413	LEHMANN A	36016	LINSLEY E G	37853	LUSIGNY	33632	LUSIGNY
33613	LEUNGLET J G	33414	LEHRER W P JR	36017	LINTLEMAN E H	37854	LUSIGNY	33633	LUSIGNY
33614	LEUNGLET J G	33415	LEHRER W P JR	36018	LIONBERGER A	37855	LUSTIG E	33634	LUSTIG E
33615	LEUNGLEY C G	33416	LEIBOFF R W D	36019	LIPPERT P	37856	LUSTIG LENDVA E VDM	33635	LUSTIG LENDVA E VDM
33616	LEUNGLEY C G	33417	LEIBY R W	36020	LISOVENKO L T	37857	LUTERAAN P J	33636	LUTERAAN P J
33617	LEUNGLEY C G	33418	LEIDL E	36021	LISTER S	37858	LUTHER J M	33637	LUTHER J M
33618	LEUNGLEY C G	33419	LEIGHTON L E	36022	LITARDIERE R DE	37859	LUTLEY E F	33638	LUTLEY E F
33619	LEUNGLEY C G	33420	LEIPOLDT C L	36023	LITTLEFIELD E	37860	LUTZ H	33639	LUTZ H
33620	LEUNGLEY C G	33421	LEITNER J	36024	LITTON G W	37861	LUZ FILHO F	33640	LUZ FILHO F
33621	LEUNGLEY C G	33422	LEITON JIMENEZ J J	36025	LITTON G W	37862	LWOFF A	33641	LWOFF A
33622	LEUNGLEY C G	33423	LEJANO A	36026	LITTON G W	37863	LYLE C	33642	LYLE C
33623	LEUNGLEY C G	33424	LEJEUNE A J	36027	LITVINCHUK K A	37864	LYLE C	33643	LYLE C
33624	LEUNGLEY C G	33425	LEJEUNE R J	36028	LITVINOVA E V F	37865	LYMAN C M	33644	LYMAN C M
33625	LEUNGLEY C G	33426	LELEUP N N	36029	LIVADAS G A	37866	LYNDON R	33645	LYNDON R
33626	LEUNGLEY C G	33427	LELEUP N N	36030	LIVANOV K V	37867	LYNN B	33646	LYNN B
33627	LEUNGLEY C G	33428	LEMASSON P P	36031	LIVET L	37868	LYNN M WBY G	33647	LYNN M WBY G
33628	LEUNGLEY C G	33429	LEMASSON P P	36032	LIVET L	37869	LYTHGOE B	33648	LYTHGOE B
33629	LEUNGLEY C G	33430	LEMMON P P	36033	LIVET L	37870	MA S M	33649	MA S M
33630	LEUNGLEY C G	33431	LEMMON P P	36034	LIVET L	37871	MA S T	33650	MA S T
33631	LEUNGLEY C G	33432	LEMMON R S	36035	LIVET L	37872	MAASS H	33651	MAASS H
33632	LEUNGLEY C G	33433	LEMMON R S	36036	LIVET L	37873	MABILLE	33652	MABILLE
33633	LEUNGLEY C G	33434	LEMON J M	36037	LIVET L	37874	MABILLE	33653	MABILLE
33634	LEUNGLEY C G	33435	LENGLEBERT J	36038	LIVET L	37875	MABILLE	33654	MABILLE
33635	LEUNGLEY C G	33436	LENGLEBERT J	36039	LIVET L	37876	MABILLE	33655	MABILLE
33636	LEUNGLEY C G	33437	LENGLEBERT J	36040	LIVET L	37877	MABILLE	33656	MABILLE
33637	LEUNGLEY C G	33438	LENNARTSON R W	36041	LIVET L	37878	MABILLE	33657	MABILLE
33638	LEUNGLEY C G	33439	LENNARTSON R W	36042	LIVET L	37879	MABILLE	33658	MABILLE
33639	LEUNGLEY C G	33440	LENNARTSON R W	36043	LIVET L	37880	MABILLE	33659	MABILLE
33640	LEUNGLEY C G	33441	LENNARTSON R W	36044	LIVET L	37881	MABILLE	33660	MABILLE
33641	LEUNGLEY C G	33442	LENNARTSON R W	36045	LIVET L	37882	MABILLE	33661	MABILLE
33642	LEUNGLEY C G	33443	LENNARTSON R W	36046	LIVET L	37883	MABILLE	33662	MABILLE
33643	LEUNGLEY C G	33444	LENNARTSON R W	36047	LIVET L	37884	MABILLE	33663	MABILLE
33644	LEUNGLEY C G	33445	LENNARTSON R W	36048	LIVET L	37885	MABILLE	33664	MABILLE
33645	LEUNGLEY C G	33446	LENNARTSON R W	36049	LIVET L	37886	MABILLE	33665	MABILLE
33646	LEUNGLEY C G	33447	LENNARTSON R W	36050	LIVET L	37887	MABILLE	33666	MABILLE
33647	LEUNGLEY C G	33448	LENNARTSON R W	36051	LIVET L	37888	MABILLE	33667	MABILLE
33648	LEUNGLEY C G	33449	LENNARTSON R W	36052	LIVET L	37889	MABILLE	33668	MABILLE
33649	LEUNGLEY C G	33450	LENNARTSON R W	36053	LIVET L	37890	MABILLE	33669	MABILLE
33650	LEUNGLEY C G	33451	LENNARTSON R W	36054	LIVET L	37891	MABILLE	33670	MABILLE
33651	LEUNGLEY C G	33452	LENNARTSON R W	36055	LIVET L	37892	MABILLE	33671	MABILLE
33652	LEUNGLEY C G	33453	LENNARTSON R W	36056	LIVET L	37893	MABILLE	33672	MABILLE
33653	LEUNGLEY C G	33454	LENNARTSON R W	36057	LIVET L	37894	MABILLE	33673	MABILLE
33654	LEUNGLEY C G	33455	LENNARTSON R W	36058	LIVET L	37895	MABILLE	33674	MABILLE
33655	LEUNGLEY C G	33456	LENNARTSON R W	36059	LIVET L	37896	MABILLE	33675	MABILLE
33656	LEUNGLEY C G	33457	LENNARTSON R W	36060	LIVET L	37897	MABILLE	33676	MABILLE
33657	LEUNGLEY C G	33458	LENNARTSON R W	36061	LIVET L	37898	MABILLE	33677	MABILLE
33658	LEUNGLEY C G	33459	LENNARTSON R W	36062	LIVET L	37899	MABILLE	33678	MABILLE
33659	LEUNGLEY C G	33460	LENNARTSON R W	36063	LIVET L	37900	MABILLE	33679	MABILLE
33660	LEUNGLEY C G	33461	LENNARTSON R W	36064	LIVET L	37901	MABILLE	33680	MABILLE
33661	LEUNGLEY C G	33462	LENNARTSON R W	36065	LIVET L	37902	MABILLE	33681	MABILLE
33662	LEUNGLEY C G	33463	LENNARTSON R W	36066	LIVET L	37903	MABILLE	33682	MABILLE
33663	LEUNGLEY C G	33464	LENNARTSON R W	36067	LIVET L	37904	MABILLE	33683	MABILLE
33664	LEUNGLEY C G	33465	LENNARTSON R W	36068	LIVET L	37905	MABILLE	33684	MABILLE
33665	LEUNGLEY C G	33466	LENNARTSON R W	36069	LIVET L	37906	MABILLE	33685	MABILLE
33666	LEUNGLEY C G	33467	LENNARTSON R W	36070	LIVET L	37907	MABILLE	33686	MABILLE
33667	LEUNGLEY C G	33468	LENNARTSON R W	36071	LIVET L	37908	MABILLE	33687	MABILLE
33668	LEUNGLEY C G	33469	LENNARTSON R W	36072	LIVET L	37909	MABILLE	33688	MABILLE
33669	LEUNGLEY C G	33470	LENNARTSON R W	36073	LIVET L	37910	MABILLE	33689	MABILLE
33670	LEUNGLEY C G	33471	LENNARTSON R W	36074	LIVET L	37911	MABILLE	33690	MABILLE
33671	LEUNGLEY C G	33472	LENNARTSON R W	36075	LIVET L	37912	MABILLE	33691	MABILLE
33672	LEUNGLEY C G	33473	LENNARTSON R W	36076	LIVET L	37913	MABILLE	33692	MABILLE
33673	LEUNGLEY C G	33474	LENNARTSON R W	36077	LIVET L	37914	MABILLE	33693	MABILLE
33674	LEUNGLEY C G	33475	LENNARTSON R W	36078	LIVET L	37915	MABILLE	33694	MABILLE
33675	LEUNGLEY C G	33476	LENNARTSON R W	36079	LIVET L	37916	MABILLE	33695	MABILLE
33676	LEUNGLEY C G	33477	LENNARTSON R W	36080	LIVET L	37917	MABILLE	33696	MABILLE
33677	LEUNGLEY C G	33478	LENNARTSON R W	36081	LIVET L	37918	MABILLE	33697	MABILLE
33678	LEUNGLEY C G	33479	LENNARTSON R W	36082	LIVET L	37919	MABILLE	33698	MABILLE
33679	LEUNGLEY C G	33480	LENNARTSON R W	36083	LIVET L	37920	MABILLE	33699	MABILLE
33680	LEUNGLEY C G	33481	LENNARTSON R W	36084	LIVET L	37921	MABILLE	33700	MABILLE
33681	LEUNGLEY C G	33482	LENNARTSON R W	36085	LIVET L	37922	MABILLE	33701	MABILLE
33682	LEUNGLEY C G	33483	LENNARTSON R W	36086	LIVET L	37923	MABILLE	33702	MABILLE
33683	LEUNGLEY C G	33484	LENNARTSON R W	36087	LIVET L	37924	MABILLE	33703	MABILLE
33684	LEUNGLEY C G	33485	LENNARTSON R W	36088	LIVET L	37925	MABILLE	33704	MABILLE
33685	LEUNGLEY C G	33486	LENNARTSON R W	36089	LIVET L	37926	MABILLE	33705	MABILLE
33686	LEUNGLEY C G	33487	LENNARTSON R W	36090	LIVET L	37927	MABILLE	33706	MABILLE
33687	LEUNGLEY C G	33488	LENNARTSON R W	36091	LIVET L	37928	MABILLE	33707	MABILLE
33688	LEUNGLEY C G	33489	LENNARTSON R W	36092	LIVET L	37929	MABILLE	33708	MABILLE
33689	LEUNGLEY C G	33490	LENNARTSON R W	36093	LIVET L	37930	MABILLE	33709	MABILLE
33690	LEUNGLEY C G	33491	LENNARTSON R W	36094	LIVET L	37931	MABILLE	33710	MABILLE
33691	LEUNGLEY C G	33492	LENNARTSON R W	36095	LIVET L	37932	MABILLE	33711	MABILLE
33692	LEUNGLEY C G	33493	LENNARTSON R W	36096	LIVET L	37933	MABILLE	33712	MABILLE
33693	LEUNGLEY C G	33494	LENNARTSON R W	36097	LIVET L	37934	MABILLE	33713	MABILLE
33694	LEUNGLEY C G	33495	LENNARTSON R W	36098	LIVET L	37935	MABILLE	33714	MABILLE
33695	LEUNGLEY C G	33496	LENNARTSON R W	36099	LIVET L	37936	MABILLE	33715	MABILLE
33696	LEUNGLEY C G	33497	LENNARTSON R W	36100	LIVET L	37937	MABILLE	33716	MABILLE
33697	LEUNGLEY C G	33498	LENNARTSON R W	36101	LIVET L	37938	MABILLE	33717	MABILLE
33698	LEUNGLEY C G	33499	LENNARTSON R W	36102	LIVET L	37939	MABILLE	33718	MABILLE
33699	LEUNGLEY C G	33500	LENNARTSON R W	36103	LIVET L	37940	MABILLE	33719	MABILLE
33700	LEUNGLEY C G	33501	LENNARTSON R W	36104	LIVET L	37941	MABILLE	33720	MABILLE
33701	LEUNGLEY C G	33502	LENNARTSON R W	36105	LIVET L	37942	MABILLE	33721	MABILLE
33702	LEUNGLEY C G	33503	LENNARTSON R W	36106	LIVET L	37943	MABILLE	33722	MABILLE
33703	LEUNGLEY C G	33504	LENNARTSON R W	36107	LIVET L	37944	MABILLE	33723	MABILLE
33704	LEUNGLEY C G	33505	LENNARTSON R W	36108	LIVET L	37945	MABILLE	33724	MABILLE
33705	LEUNGLEY C G	33506	LENNARTSON R W	36109	LIVET L	37946	MABILLE	33725	MABILLE
33706	LEUNGLEY C G	33507	LENNARTSON R W	36110	LIVET L	37947	MABILLE	33726	MABILLE
33707	LEUNGLEY C G	33508	LENNARTSON R W	36111	LIVET L	37948	MABILLE	33727	MABILLE
33708	LEUNGLEY C G	33509	LENNARTSON R W	36112	LIVET L	37949	MABILLE	33728	MABILLE
33709	LEUNGLEY C G	33510	LENNARTSON R W	36113	LIVET L	37950	MABILLE	33729	MABILLE
33710	LEUNGLEY C G	33511	LENNARTSON R W	36114	LIVET L	37951	MABILLE	33730	MABILLE
33711	LEUNGLEY C G	33512	LENNARTSON R W	36115	LIVET L	37952	MABILLE	33731	MABILLE
33712	LEUNGLEY C G	33513	LENNARTSON R W	36116	LIVET L	37953	MABILLE	33732	MABILLE
33713	LEUNGLEY C G	33514	LENNARTSON R W	36117	LIVET L	37954	MABILLE	33733	MABILLE
33714	LEUNGLEY C G	33515	LENNARTSON R W	36118	LIVET L	37955	MABILLE	33734	MABILLE
33715	LEUNGLEY C G	33516	LENNARTSON R W	36119	LIVET L	37956	MABILLE	33735	MABILLE
33716	LEUNGLEY C G	33517	LENNARTSON R W	36120	LIVET L	37957	MABILLE	33736	MABILLE
33717	LEUNGLEY C G	33518	LENNARTSON R W	36121	LIVET L	37958	MABILLE	33737	MABILLE
33718	LEUNGLEY C G	33519	LENNARTSON R W	36122	LIVET L	37959	MABILLE	33738	MABILLE
33719	LEUNGLEY C G	33520	LENNARTSON R W	36123	LIVET L	37960	MABILLE	33739	MABILLE
33720	LEUNGLEY C G	33521	LENNARTSON R W	36124	LIVET L	37961	MABILLE	33740	MABILLE
33721	LEUNGLEY C G	33522	LENNARTSON R W	36125	LIVET L	37962	MABILLE	33741	MABILLE
33722	LEUNGLEY C G	33523	LENNARTSON R W	36126	LIVET L	37963	MABILLE	33742	MABILLE
33723	LEUNGLEY C G	33524	LENNARTSON R W	36127	LIVET L	37964	MABILLE	33743	MABILLE
33724	LEUNGLEY C G	33525	LENNARTSON R W	36128	LIVET L	37965	MABILLE	33744	MABILLE
33725	LEUNGLEY C G	33526	LENNARTSON R W	36129	LIVET L	37966	MABILLE	33745	MABILLE
33726	LEUNGLEY C G	33527	LENNARTSON R W	36130	LIVET L	37967	MABILLE	33746	MABILLE
33727	LEUNGLEY C G	33528	LENNARTSON R W	36131	LIVET L	37968	MABILLE	33747	MABILLE
33728	LEUNGLEY C G	33529	LENNARTSON R W	36132	LIVET L	37969	MABILLE	33748	MABILLE
33729	LEUNGLEY C G	33530	LENNARTSON R W	36133	LIVET L	37970	MABILLE	33749	MABILLE
33730	LEUNGLEY C G	33531	LENNARTSON R W	36134	LIVET L	37971	MABILLE	33750	MABILLE
33731	LEUNGLEY C G	33532	LENNARTSON R W	36135	LIVET L	37972	MABILLE	33751	MABILLE
33732	LEUNGLEY C G	33533	LENNARTSON R W	36136	LIVET L	37973	MABILLE	33752	MABILLE
33733	LEUNGLEY C G	33534	LENNARTSON R W	36137	LIVET L	37974	MABILLE	33753	MABILLE
33734	LEUNGLEY C G	33535	LENNARTSON R W	36138	LIVET L	37975	MABILLE	33754	MABILLE
33735	LEUNGLEY C G	33536	LENNARTSON R W	36139	LIVET L	37976	MABILLE	33755	MABILLE
33736	LEUNGLEY C G	33537	LENNARTSON R W	36140	LIVET L	37977	MABILLE	33756	MABILLE
33737	LEUNGLEY C G	33538	LENNARTSON R W	36141	LIVET L				







MONTANARI V	33596	MULLER E G	35239	NAUMOV S A	35435	NIESSEL E	39057
MONTANO J	33749	MULLER H E	41376	NAVA C D E	37623	NIEHAMMERA	33172
MONTASIR A H	33536	MULL L E	39359	NAVAVAS E	37720	NIGGLI H	38137
MONTAUX A	36761	MULL L E	39356	NAVATIL K	38610	NIKANOROV V A	37039
MONTAGUT J	33133	MULLALLY M J	35696	NAYAR K N G	36762	NIKIFOROV V	38820
MONTARLO J M	39739	MULLER	36219	NAYLOR H	38859	NIKIFOROVA M M	36432
MONTTELL E W	40751	MULLER A M	34696	NAZARTSEV N G	40753	NIKITIN M G	37571
MONTES V	35320	MULLER C E	40885	NEAL E M	33886	NIKITIN V P	37305
MONTEVERDE J R F	37034	MULLER F P	38540	NEAL O R	40940	NIKOLAEV A	39358
MONTGOMERY G A	36907	MULLER J	34024	NEARING G G	35436	NIKOLAICZUK N	37155
MONTGOMERY G A	36661	MULLER J	37717	NEELY J W	40179		
MONTGOMERY G A	40385	MULLER J	37622	NEFEV A I	37038	NILOR R	36931
MONTGRAIN C G	36019	MULLER J K	39393	NEFF M S	33540	NIMMO C C	39780
MONTHEY L S	33669	MULLER K	33885	NEFF M S	33541	NISHIMURA M S	33484
MONTHULE P	39233	MULLER P	38858	NEGHEME A	38223	NISSANOV S	33890
MONTHULE P	39234	MULLER S	38896	NEGI P S	38313	NIVARD R J F	33497
MONTICELLI F	39915	MULLIGAN R M	36908	NEGI P S	38375	NIVEN C F JR	40157
MOODY G S	34385	MULLIGAN R M	36909	NEGRI G	32890	NIVEN L A	37724
MOODY J D	33060	MULLINS J	38795	NEGRI R	34978	NIVEN L A	39815
MOODY J D	37106	MULLISON W R	33294	NEGRE M	32768	NOBLES M K	33173
MOODY J D	36794	MULLOY G A	35909	NEHOU J	32891	NOODER C R	33788
MOON I	38909	MULRENNAN J A	38241	NEISWANDER C R	37728	NOGUEIRA NETO P	38367
MOON W T	38961	MUNCH F	39670	NEISWANDER R B	37728	NOHR A	38796
MOOR A	37065	MUNDKUR B B	32972	NEKRASOV E M	36020	NOIROT C	38542
MOORE A	35431	MUNERATI O	33538	NEL E A	34214	NOLLAND J L	38504
MOORE A	33883	MUNGO J	34700	NEL G C	34703	NOLLAU J	40887
MOORE A	39052	MUNGER T T	35914	NEL R I	34164	NOLTE A J	39774
MOORE A C	40431	MUNN M T	40354	NELES J M	37110	NONNECKE I	33235
MOORE A C	37107	MUNOZ GRANDES F	41123	NELLIS C C	39301	NORDBY J E	37417
MOORE A C	37304	MUNOZ ZUNIGA F	40498	NELLMAPIUS E H	40657	NORDELDOT S	37542
MOORE A V	39423	MUNRO D A	36431	NELSON B	38611	NORDELDOT S	39584
MOORE B P	38539	MUNRO J	34697	NELSON E W	33987	NORDINE H M	34043
MOORE C H	40156	MUNRO J	34698	NELSON L	40702	NORDIO C	36332
MOORE C H	37750	MUNRO J	34699	NELSON L A	36054	NORDIS S DE	36763
MOORE E L	41344	MUNRO J A	37736	NEPOMUCKY J	41125	NORDSKOG A W	37306
MOORE E L	33168	MUNRO J A	37831	NEPVEU P	38458	NORLIN C	35688
MOORE E L	39782	MUNRO J A	38039	NEPVEU P	40527	NORMAN A	34708
MOORE H I	35293	MUNRO J A	38366	NESBITT J M	39443	NORMAND J	35439
MOORE J G	40752	MUNRO B S	37108	NESTERENKO G A	34219	NORMAND J	35812
MOORE J G	33019	MUNROE E	38455	NETHERLANDS COM VOOR HET		NORMAND J	36021
MOORE J G	34690	MUNSTER J	38312	KUNSTMATIG DROGEN VAN		NORMAND J	36153
MOORE J G	34973	MUNZINGER A	40811	GHAS EN ANDERE		NORMANHA E S	35168
MOORE J G	38830	MURA D	37460	RUVVOEDERS	38727	NORRIS L C	36333
MOORE L	40285	MURAIAMA S J	34975	NETHERLANDS GOVT COM FOR		NORSK KENNEL KLUB	36932
MOORE P H	37539	MURAIAMA S J	34976	THE COMPILATION OF THE		NORTH A D	37599
MOORE R E	41427	MURAIAMA S J	35742	LIST OF VARIETIES OF		NORTH M O	37307
MOORE R P	33665	MURARI T	36662	FIELD CROPS	33672	NORTH M O	40288
MOORE W E	33484	MURDOCK H	34701	NETHERLANDS MIN OF AGR		NORTH M O	40816
MOORE W J	39916	MURER H K	41288	FISHERIES AND FOOD	40658	NORTH CENT WEED CONF	
MOORHOUSE S	35811	MURILLO ESQUIVEL M	35095	NETSCH W A	40081	POLICY COM ON HERBICIDES	
MOHALES J	40654	MURNEEK A E	34162	NEUBAUER K	38570		
MOHALES M E	37715	MURPHREE L C	37663	NEUBAUER L W	36092	N DAK AGR COL	35580
MOHALES P T	36987	MURPHREE L C	37718	NEUBERG C A	33633	N DAK STATE HAIL INS DEPT	
MOHALES AGACINO E	38453	MURPHREE L C	37719	NEUBERT A M	39917		
MOHATH E	36198	MURPHY H C	33688	NEUBERT A M	39917	NORTHEASTERN STATES BRU	
MOHCAU A R	37414	MURPHY H C	33763	NEUHAUS E	39917	CELLOSIS CONF	36433
MOHCAU C	32991	MURPHY R G	40560	NEUMAN R	35855	NORTHEASTERN WOOD UTIL	
MOHCAU M	32991	MURPHY R R	40812	NEUMANN F	40385	COUNCIL	36129
MOHEL C	35579	MURPHY R R	37174	NEUMANN F	35167	NORTHEASTERN WOOD UTIL	
MOHEL F	37386	MURRAY M	39055	NEUMANN F	40886	COUNCIL	36199
MOHELL B M	39053	MUSGRAVE A	34456	NEUMER J	33888	NORTHERN IRELAND MIN OF	
MOHELL G	37035	MUSPRATT V M	38503	NEUMER J	34389	AGR	33738
MOHENO E M	38038	MUSSELMAN H V	39740	NEVA A C	39236	NORTHERN IRELAND MIN OF	
MOHETTON E	38855	MUSSENBRACK A	35337	NEVANO G	33369	AGR	36664
MOHETTI A	34386	MUSSEK K B	40120	NEVENS W B	33737	NORTHERN IRELAND MIN OF	
MOHETTINI A	34218	MUSSETT A T	39531	NEVENS W B	33889	AGR	38314
MORFORD V J	38738	MUTH M	38821	NEVES C M B	35829	NORTHERN NUT GROWERS AS	
MORGAN A F	41278	MUTOVIN V I	37037	NEW ENGLAND GLADIOLUS SOC		SOC	34439
MORGAN B B	37387	MYERS G M	40526			NORTON B J	39238
MORGAN C N	34974	MYERS G M	41224	M H FORESTRY AND REC COMM		NORTON C	34709
MORGAN C N	39054	MYERS J H	33484			NORTON L B	37725
MORGAN H W	36127	MYERS W I	34977	M J FOREST FIRE SERV		NORVAL R	35206
MORGAN J M	38227	MYERS W I	39104			NORWAY STATIS SENTRALBYRA	
MORGAN N D	35432	MYOOD H	34682	NEW SO WALES DEPT OF AGR			
MORI C D E	39300	MYHAKER L E	39532			NOSKOV A I	37573
MORLEY W J	37716	MYRICK D C	40744	NEW SO WALES DEPT OF AGR		NOSTDAHL W	38366
MORO M	33735					NOSTI J	35169
MORO M	36573	NABOKOV V	38457	BIOL BR	35437	NOSULENKO I U A	35653
MOROCO SERV DE LA RECH		NADAUD F	35433	DIV OF SCI SERV	33171	NOTH H	38860
AGRON ET DE L EXPT AGR		NADAUD F	40655	DIV OF HORT	34220	NOTTER G K	39780
33670 35305		NAEGELE M	40473	ENT BR	37721	NOURY C	34061
MOROIS M	37386	NAGEL A	37109	ENT BR	37921	NOURY E M	38138
MORPURGO E	37036	NAGHSKI J	32790	ENT BR	38136	NOVIKOV A A	34390
MORRIS S R C	34691	NAGORSKI M	38910	N Y MILK SHED PRICE COM		NOVIKOV F A	34299
MORRIS E W T	37828	NAIDICH R	39099			NOVOPOL SKAIA E V	38040
MORRIS J	34692	NAIR J H	39142	N Y STATE COL OF AGR DEPT		NOVACKI T	40966
MORRIS K R S	38135	NAJJAR H	38541	OF AGR ECON	40813	NOVAK J	34165
MORRIS L JR	38856	NAMBIAR K T K	36762	N Y STATE COL OF AGR DEPT		NOVAK W	41328
MORRIS M G	38135	NANCE H W	36837	OF AGR ECON	40814	NUNN A	37832
MORRIS W E	36767	NANK E E	33539	N Y STATE COL OF AGR DEPT		NOTTING G C	39764
MORRIS W G	35939	NANK E E	32748	OF AGR ECON	40815	NYSTERAKIS F	33634
MORRISON J	36920	NANOBASHVILI V I	37920	N Y STATE LEG JOINT COM		NYSTERAKIS F	38315
MORRISON F B	36330	NAO F	40975	ON PROB OF THE AGING		NYSTROM A B	39533
MORRISON F B	36331	NAPRSTEK J	36498				
MORRISON F B	37540	NAKAYANAMURTI D	36073	NEW ZEALAND DEPT OF LANDS		OBABI H	38139
MORRISON V L	36244	NAKAYANAMURTI D	36084	AND SURVEY	36128	OBANDO W L	41038
MORROW J A	35980	NAKAYANAMURTI D	36187	NEW ZEALAND DEPT OF LANDS		OBEL N	37040
MORSE M	35670	NAKAYANASWAMY K	33806	AND SURVEY	40832	OBRIEN E J	40012
MORSTATT	36988	NASH F M	40286	NEW ZEALAND ROMNEY MARSH		OBRIEN H R	33061
MORTLAND J F	37829	NATAF B	39357	SHEEP BREEDERS ASSOC		OBRIEN H R	38797
MORTON C V	38951	NATIONAL ASSOC OF SILO				OBRIEN W H	36055
MORTON C V	39229	MFRS	38904	NEWCOMER E J	37722	OCAMPO MOSCOSO E	33739
MORTON R P	32930	NATIONAL CANNERS ASSOC		NEWCOMER E J	38260	OCANA B	33957
MORWICK F F	34693		39143	NEWELL L C	35218	OCHS G	38041
MOSE G	35205	NATIONAL CONF ON FAMILY		NEWELL R	35676	OCHSE J J	33264
MOSE G	34387	LIFE	41413	NEWLANDER J A	39424	CONNOR R T	40231
MOSE G	34388	NATIONAL EGG PROD ASSOC		NEWTON B L D	36925	ODELLI M	35246
MOSSER A L	39235	NATIONAL FIRE PORT ASSOC		NEWTON J	35690	ODELL D	40209
MOSKEY H E	33169		38569	NIBLER C W	36663	ODELL J H	34710
MOSOLOV I V	33537	NATIONAL FORUM OF LABOR		NICHOL C A	37213	ODERKIRK G C	41329
MOSOLOV V P	33884	AGR AND INDUS	40437	NICHOLS A G	35651	ODLAND M L	34980
MOSSELI D A V	41240	NATIONAL INDUS CONF BD		NICHOLS M B	41126	ODLAND M L	38406
MOSSELI D A V	33671		40556	NICHOLS M B	36677	ODLUM G M	36574
MOTRENKO H G	33736	NATIONAL INST OF AGR BOT		NICHOLS W	36188	ODYNSKY W	35296
MOTTEN H H	39764		33170	NICHOLSON A E	41327	OEHLER R	40158
MOUTHTROP I M	37212	NATIONAL JOINT COM ON		NICHOLSON A E	34705	OERS VAN	36575
MOURA V	41122	FERT APPL	35434	NICOL J	37723	OESTERLE	34924
MOUTTE P	36930	NATIONAL PLAN ASSOC AGR		NICOLAI E	33374	OFFICE TECH DE L INDUS	
MOWERY A S	38857	COM ON NATL POLICY	39056	NICOLAISEN W	40355	LAI TIERE	39302
MOYSE MIGNON H	33636	NATIONAL RES COUNCIL		NICOLINI G	34706	OFFICE TECH DE L INDUS	
MUELLER C H	34694	DIV OF BIOL AND AGR		NICOLINI G	41186	LAI TIERE	39534
MUELLER W S	38653		41452	NIELAND L T	35891	OLAHERTY F	36172
MUGGLI J	37415	NATIONAL SHADE TREE CONF		NIELSEN E S	39237	OGDEN L J	38545
MUHLESTEIN T	34695		34702	NIELSEN H M	33314	OGDEN W H	36056
MUHLETHALER K	39669	NATIONAL VET MED ASSOC		NIELSEN H M	37178	OGILVIE A S	35097
MULLENBURG W J	34060		37461	NIELSEN O	35591	OGLE R C	37308
MUIR A	37830	NATIONAL WOOL GROWERS		NIELSEN P J	37541	OGLE R C	37309
MUKERJI S	38454	ASSOC	40080	NIEMANN F J	41037	OGNEV I M	33740
MUKHERJEE T D	38263	NATIVIDADE J V	34163	NIEMANN P J	36838	OGOL N I	36989
MUKHERJI D K	35017	NATIVIDADE J V	40218	NIES E E	34707	OGKINC J P	36239







POOS F W 38729 PULZ K 40388 REBOUR H 34227 RICHEN C W 35859
POOTJES J R 38324 PURI G S 32772 RECASENS L DE 34398 RICHES P N 37465
POPE A L 37734 PURI I M 38227 RECASENS L DE 35698 RICHARIA R H 33428
POPE A L 37463 PUKUSHOTAM A 33959 RECHENTHIN C A 35104 RICHMOND H A 38468
POPENOE 37464 PUKURVES C B 36084 RECHENTHIN A B 35122 RICHOUR 36445
POPHAM W L 37735 PUKURVES C M 40579 REDDY M L 35178 RICKER A 40418
POPOV N F 37000 PUKVISE R 35243 REDMAN J C 39101 RICK C M W 33429
POPOV A V 33548 PUSSARD H 37739 REDMAN J C C 39102 RICKETT H W 32781
POPOV G I 33427 PUSSARD H 37740 REDMAN J C 39103 RICO C 36443
POPOV I 36008 PUTNAM D F 35207 REED C A 34441 RIDER L A 36846
POPOV I 37043 PUTNAM R N 40567 REED C A 35179 RIDER L A 39862
POPOV V A 36009 PUTOV V S 34303 REED F D 37322 RIORUEJO L 33676
POPOV V V 38369 PUZULUKOV P A 38763 REED F D 37232 RIEDL W A 33430
POPOVICH I V 40565 PUZZI D 34225 REED F D 40297 RIEGEL G T 38370
POPP M 35745 PYENSON H 39548 REED F D 40298 RIEKE F F 33484
POPPENSICK G C 36956 PYKE M 41293 REED F D 40299 RIEMSCHEIDER R 33556
POKRET A 39245 QUACKENBUSH F W 40210 REED I F 38802 RIES H 41317
POKTEOUS H 36271 QUADRI P 39425 REED J T 34070 RIEUX PEYROU 37505
POKTEOUS H 40566 QUADRI P 39539 REED O E 36340 RIGDON R H 37193
PORTER C L 32810 QUARRELL C P 34069 REED O E 33896 RIGNAUT J 35660
PORTER J A 35448 QUARRELL C P P 34997 REED V 36583 RIGNEY J 33638
PORTER L 41134 QUARRELL C P P 34998 REED W H 33374 RIKER A J 33070
PORTER R H 32771 QUARRELL C P P 34999 REEDS 39061 RIKER A J 33499
PORTLAND UNION STOCK 35995 RILEY H 35995 RIMANN C 41283
YARDS CO 40159 QUARRELL C P P 37743 RIMANN K 33185
PORTNOV M 33747 QUARRELL C P P 36844 RIMSKII KORSAKOV M N
PORTNOV M N 38709 QUARRELL C P P 35241 37625
PORTUGAL JUNTA MAC DAS 39773 RINCK E 33639
FKUTAS 39817 QUATE G S 33066 RINDLEISCH SEYFARTH M
POKZIO G 36579 QUEBEC MIN DE L AGR 33283 36957
POKNETTE A F 38325 QUEBEC MIN DE L AGR 33283 36957
POSPELOV N A 40762 FORETS 33179 REFRIG RES FOUND 36670
POST J J 41435 QUEIROZ M DE S 36774 RINEHART E F 37431
POST K 34733 QUEMERE F 36774 RINEHART E F 39588
POST R L 37736 QUEVEUX A 36845 RINGDAHL O 38147
POST R L 38366 QUEZET P 32813 RINGDAHL O 38148
POTAPENKO M T 34996 QUINET P 38048 RINGDAHL O 39587
POTAPOV K P 38793 QUIC J B 37848 RINQUELET A 38613
POTIER DE LA VARDE R 32954 QUIGLEY G D 38506 RINKECAST 39946
POTIER DE LA VARDE R 41379 QUIGLEY G D 38507 RINNE D 40357
POTOMAC GRANGE NO 1 PAT 32954 QUILLICI R 40946 RINOLDI L 39680
RONS OF HUSB 40956 QUIN J I 39818 RIOUX J 32895
POTTER C 35189 QUINN J P 35514 RIPPER A 38863
POTTER C 37737 QUINNIS J 39246 RIQUELME INDA J 35784
POTTER G F 35164 QUINNIS J P 36200 RISH H 38509
POTTS S F 33114 QUINNIS J P 41334 RISBEC J 37744
POTTS S F 38752 QUINNIS J P 37841 RISI J 36149
POTVIN J B 40668 QUINTANILLA R H 33227 RITCHIE J 36070
POTVIN J B 40669 QUIROS CALVO M 36671 RITTER E 35945
POULOS P L 33141 QUKESHI S H 36775 RITZMAN E G 36672
POULTON C E 33894 RABAUD E 33376 RUIRIKOV N A 33751
POULTRY AND EGG NATL 38801 RABUFFO V M 33067 RIVA F P DE LA 35180
BU 39471 RADEMA L 33554 RIVEROS J E 34399
POUND G S 35032 RADEMA L 33792 RIVEROS J E 34400
POURPE A 40219 RADEMA L 33555 RIVOIRE A 34071
POURHAIN P 38463 RAEDER J M 37858 RIVOIRE P 34072
POWELL D H 37738 RAESIDE J U 35006 RIZZO S L 38571
POWELL H A 39839 RAFALES FERRER S 35453 ROA E 37397
POWELL L A 35449 RAGGI L 33182 ROA URIANTE E 41464
POWELL OWEN W 37113 RAHMANI R 34742 ROANE C W 33758
POWELL OWEN W 37114 RAHMLOW H J 39015 ROBB T R 38546
POWELL OWEN W 37317 RAHN E M 39426 ROBBINS H B 38997
POWELL OWEN W 37318 RAHN E M 37462 ROBBINS P W 36222
POWELL OWEN W 37319 RAIKOV B E 39014 ROBBINS W J 33557
POWELL OWEN W 37320 RAIMO H F 33501 ROBBINS W P 40390
POWELL OWEN W 35513 RAINNEY J W 38508 ROBBINS W W 35066
POZUENA L 37320 RALSTON PURINA CO 34138 ROBBINS W W 35106
PRAGUE USTAV PRO MAZI 37320 RAM SIR S 38466 ROBBLEE A R 37213
NARODNI SPOLUPRACI V 35513 RAMAIN P 41381 ROBERTS A 40820
ZEMEDLSTVI 40670 RAMASWAMI REDDIYAR O P 36914 ROBERTS A 40185
PRANCE C 36580 RAMCAU J T L B 38467 ROBERTS A N 33558
PRASAD N 33178 RAMELLA R 36440 ROBERTS B F 38889
PRAT H 33373 RAMIREZ A 40935 ROBERTS C S 33444
PRATT C H A K 36100 RAMIREZ S DE C A 39744 ROBERTS G 33900
PRESNELL H A K 40220 RAMONA R DE 35007 ROBERTS I H 37906
PRESNIAKOVA G A 35656 RAMONA R DE 34171 ROBERTS P 32773
PRESSLY H 41292 RAMONA R DE 34228 ROBERTS H H 34551
PRESTON J F 35892 RAMOS LARA M 40454 ROBERTS W L 34745
PRESTON R D 33374 RAMOS NUNEZ G 39540 ROBERTS W L 36945
PREVOT J P 40477 RAMON L 33315 ROBERTS W L 36946
PREVOT J P 33375 RAMSCH H 34172 ROBERTS W O 33559
PRICE A W JR 36058 RAMSFJELL T 38327 ROBERTS W M 39542
PRICE C W JR 33748 RAMSFJELL T 33183 ROBERTSON E I 37162
PRICE W V 39553 RAMSFJELL T 37842 ROBERTSON E I 40301
PRIESTMAN H L E 40699 RANDALL C K 39541 ROBERTSON W F 39910
PRIESTMAN H L E 40671 RANDALL H J 34304 ROBERTSON W F 39395
PRIETO C R 40453 RANDALL H J 36133 ROBINSON C 38929
PRIETO C R 36438 RANDALL H J 36134 ROBINSON C 39543
PRIME C T 32811 RANDOLPH L F 41335 ROBINSON E 37843
PRINCE F S 33895 RANDOLPH L F 34743 ROBINSON F B 34746
PRINCE P W 36581 RANGHEL GALINDO A 33897 ROBINSON H W 39310
PRINCIPI P 35307 RANGIER M 40389 ROBINSON J 37324
PRING G H 34734 RANKIN J L 36885 ROBINSON J L 33668
PRINGLE A V 39677 RANSMEIER J C 37436 ROBINSON R H 37759
PRINS M 41188 RAODLT A 40300 ROBINSON W D 41245
PROCHAZKA T G 40672 RAPER A F 38740 ROBL 38864
PROCKTER N J 34735 RAPIN J 33377 REZENDE PINTO M C UE 33793
PROCKTER N J 34736 RAPKING A H 33181 RHEINGANTZ O L O 37323
PROCTER C 35242 RAPP J L C 33266 ROCASOLANO C 33901
PROCTER C 38888 RASCO J L C 33266 ROCASOLANO C 39247
PROCTER G C 34068 RASKIN L M E J 33266 ROCCHETTI 37545
PROCTOR P B 38861 RASMUSSEN M E J 39819 ROCHESTER M C 40674
PROCTOR P B 36131 RASPINI J M 41212 ROCHFORD E M 37418
PROCTOR H G 36132 RASTEGAEV P N 41251 ROCHFORD F H 36847
PROCBSTING E L 34737 RATCHFORD C B 39861 ROCKWELL F F 34073
PROKUPK K 35450 RATCLIFFE H E 38928 ROCKWELL F F 34747
PROSEK J 40439 RATERA E L 39309 ROCKWELL F F 35011
PROSKE G E 40334 RATHMAN G A 38803 RODALE R 35699
PROTSEROV A V 35219 RATKOVSKII S P 41044 RODALE J I 35747
PROULX J R 36499 RATNER E I 38309 RODGERS A D 41382
PROULX J R 36940 RAU A 36441 RODTONOVA N F 37925
PROUTY C C 39538 RAU G 37161 RODON J M 36341
PROVAGLIO G 35102 RAUEN H M 33899 RODON J M 37217
PROVAGLIO G 35451 RAUH G 33184 RODRIGUES R J V 39745
PROVAGLIO G 40015 RAUNE S 36584 RODRIGUEZ M 33408
PROVAN A L 36770 RAUSING H 33267 RODRIGUEZ M 33414
PROVERA V E 40016 RAUTERBERG E 33069 RODRIGUEZ M 39248
PUDDLE F C 34738 RAVAGLIOLI T 35008 RODRIGUEZ AVILA A 34749
PUENTES M 35657 RAVAUULT L 35009 ROE E I 35984
PUFFER R E 33578 RAVEN J E 40673 ROE J 33902
PUGET E 36418 RAWLINGS J C 36585 ROE J 38614
PUGH B 35658 RAWLINS T E 36586 ROEDER G 39360
PUHR L F 33683 RAYNER M C 35010 ROEDER G 36776
PUKHOVSKII B G 38800 RAZIM S 39587 ROEMER T 40765
PUKHTINSKII I U E 34302 RAZOUS P 33217 ROESSLER E B 39016
PULLAR E A 34739 RAZOUS P 40087 ROF CODINA J 36588
PULLEY G N 39782 READ M G 39679 ROF CODINA J 37118
PULZ K 33977 REBER N F 38328 ROF CODINA J 39311
35005 RICHARDSON T C 38710 ROGENT I 34173
35105 ROGENT I 40221
35586 ROGERS C F 36342
34744 ROGERS E J 35912



ITEM	ITEM	ITEM	ITEM	ITEM			
ROGERS G B	40302	RUPP C	41046	SASMAN L M	41136	SCHROEDER C A	34079
ROGERS H	36760	RUPP E	38655	SASTRY G A	36762	SCHROEDER C A	34230
ROGERS J	38865	RUPP E	38866	SASTRY N S R	39177	SCHROEDER C H	37476
ROGERS J S	36173	RUPP H M R	32896	SATAVA J	38043	SCHROEDER G	36246
ROGERS N S	35938	RUPP H M R	32897	SATYANARAYANA M	39178	SCHROEDER H O	38153
ROHDE E S	35012	RUPP J	40122	SAUDER O	38730	SCHROEDER R A	33566
ROHE H R	40303	RUSAKOV L F	3752	SAUHEITL A	41137	SCHROTH H	39315
ROHLFES	36589	RUSHTON J T	36193	SAULES C L DE	35183	SCHUBERT H G	32802
ROHMEDER E	35985	RUSK H P	41343	SAUNBY T	35458	SCHUBERT B G	32865
ROHRER E	33560	RUSSELL J C	35629	SAUNDERS D W	40336	SCHUETTE G	41141
ROHWER S A	37672	RUSSELL H S	38867	SAUNDERS L G	36918	SCHUH W VON	35272
ROHWER S A	37745	RUSSELL J S	37546	SAURA F	33378	SCHULE H VON	34311
ROHLINSON G N	39840	RUSSELL M	38510	SAURAT P	39431	SCHULENBURG L G VON DER	
ROLL HANSEN J	35270	RUSSELL P F	38191	SAVAGE B	37419		
ROLLAND L	35013	RUSSELL R S	39062	SAVAGE Z	40821	SCHULER E A	40967
ROLLAND L	35454	RUSSELL R S	39250	SAVARY A	37647	SCHULMAN E	32775
ROLLAND L	38049	RUSSELL R S	39820	SAVCHENKO BELSKII M	37647	SCHULTZ E S	33002
ROLLTO F	33978	RUSSELL R S	40123	SAVILLE D B O	33188	SCHULTZ H W	41246
ROMANOFF A J	37218	RUSSELL R S	40192	SAVILLE R J	40661	SCHULTZ J H	33270
ROMANOFF A L	37218	RUSSELL S S	35107	SAVILLE R J	40804	SCHULTZ J H	35016
ROMANNE JAMES MRS C	35121	RUSSELL W E	37613	SAVZDARG E E	38371	SCHULTZ J H	39917
ROMERO E	40897	RUSSENHOLT E S	35894	SAXTON R	34755	SCHULZ J A	41295
ROMERO M A	40391	RUSSON N R	39080	SAYRE C B	33564	SCHULZ J A	41296
ROMERO MONTERO R	40304	RUSTON D F	38319	SBHANA M	40678	SCHULZ K C A	37468
ROMNES R	35986	RUTERS P	39312	SCAMMELL W S	40900	SCHULZ W G	39547
ROMON H	40675	RUTHER	37547	SCARAMUZZI G	33565	SCHULZ W G	38741
RONDON Y	32993	RUTLEDGE L L	41080	SCARBROUGH G	35459	SCHULZE A	39375
RONDON Y	33316	RYAN H J	38329	SCARSETH G D	35460	SCHULZE B	37945
RONECKER F	35182	RYAN J A	36223	SCATTOLIN L L	40161	SCHULZE ZUR WIESCH I	
RONEY J N	37746	RYAN L C	38520	SCHAAFFHAUSEN R V	33756		
RONEY J N	37747	RYBAK B	33071	SCHAAAL W G	33905	SCHUMACHER F X	35914
ROOKER W A	39924	RYBAK B	33236	SCHAAP W G	41138	SCHUMY V	40569
ROOME C A	35989	RYBAK B	33237	SCHAAARS M A	41139	SCHUMY V	40902
ROOME C A	40305	RYCHIN I U V	32898	SCHACHMAN K H	33269	SCHUMY V	40903
ROOT A I	40047	RYDEN N	38149	SCHADE A L	33643	SCHUMY V	41051
ROOTS W L	39074	RYDER E	41336	SCHAEFER E E	33189	SCHUSTER H	32776
ROOY W VAN	36777	RYDER E	32774	SCHAEFER L	38050	SCHUTZ P	34403
ROS DE RAMIS J DE	34750	RYGG G L	39926	SCHAEFFER P	33630	SCHUTZE P	35185
ROSBOROUGH J F	34442	RYMASKE T	33563	SCHAEFFER W F JR	36593	SCHWAB G R	36969
ROSE F J	34751	RYMASHEVSKII V K	37846	SCHAEZNER J P	38930	SCHWARTZ B	37577
ROSEBERG A R	36915	RYNES S E	35108	SCHAIK T F S M VAN	41219	SCHWARTZ D	33271
ROSEBERG A R	36916			SCHANZEL H	37044	SCHWARTZ H	36136
ROSELLA E	37844	SAAD A	38804	SCHAPERCLAUS W	38572	SCHWARZ F	34758
ROSELLA E	39025	SAAVEDRA ANTEZANA R	34307	SCHARFF D K	37751	SCHWARZ W	37469
ROSELLI R J	40018	SABIN A B	38150	SCHARFF D K	38511	SCHWEIGERT B S	41297
ROSEN A	34074	SABINE G A	40676	SCHARFFENBERG	37681	SCHWENGER R B	41189
ROSENDAHL C O	32781	SABROSKY C W	38151	SCHARRER B	33547	SCHWEIZERISCHE BANKGESELL	
ROSS C R	35893	SACCAS A	32994	SCHAUBERGER V	38962	SCHAFT 40679	
ROSSOFF H	39903	SACCAS A	33133	SCHAUDER R	38898	SCHWEIZERISCHE BANKGESELL	
ROSS D	36590	SACCO P	37927	SCHEDL K E	35955	SCHAFT 40680	
ROSS D G	36933	SACCO P	40089	SCHEDL K E	38052	SCHWEIZERISCHES BAUERNSE	
ROSS E	39017	SACIA F	34308	SCHEDL K G	38471	KRETIARIAT	39569
ROSS H H	38547	SACKSTON W E	33072	SCHAEFFER F	35516	SCHWERDT FEGGER F	38053
ROSS J G	36673	SACKVILLE J P	36591	SCHAEFFER F	40765	SCHWETZ J	38230
ROSS R H	36674	SADLER G	33186	SCHAEFFER F	38731	SCOGGAN H J	32995
ROSS R H	36673	SADLER G	34077	SCHAEFFER F	36780	SCORGIE H J	34759
ROSS W A	41272	SADUSK J F JH	37928	SCHELL C E	35103	SCOTT A	35662
ROSSI L	37926	SAECHTLING	36135	SCHELL C E	39902	SCOTT C E	35689
ROSSI L	34305	SAENZ DOZAL J	36224	SCHENCK C A	35786	SCOTT E L	37070
ROSSI L	34306	SAGER O S	39546	SCHENCK H E	40441	SCOTT L	37163
ROSSI R P	38897	SAHASRABUDDHE K R	35456	SCHERY R W	38280	SCOTT L	39927
ROSSI S	33903	SAIL L R	35478	SCHERUGA F	38615	SCOTT M D	37070
ROSSI V	39544	SAINSBURY G O K	32955	SCHIFFINGER R	38616	SCOTT M L	37163
ROSSI CHAVARRIA H	40088	ST JOHN H	32899	SCHILLE W H	39153	SCOTT N	39841
ROSSLER P	34075	ST JOHN J L	40222	SCHILLER G W	40020	SCOTT W M	39024
ROSSOUW S D	40111	SAINT PAUL UNION STOCK		SCHINAGL J F	37467	SCOTT W M	39682
ROTH H	39361	YARDS CO	40160	SCHINAGL J F	38546	SCOVILLE G P	40485
ROTH L M	37631	SAINT PERIER R DE	32815	SCHINDLER	41048	SCROGGS C L	40681
ROTH R J	40501	SAINT QUENTIN M	35109	SCHINDLER C	39081	SCURT F	39253
ROTHCHILD LORD	36272	SAJA F	40899	SCHLAGER H	35727	SEABROOK P	41414
ROTHCHILD I	37219	SAKHAROV I M	38805	SCHLIER T	40766	SEAR C A	40335
ROTHCHILD I	37220	SALA G	40137	SCHLOTTFELDT C S	38372	SEARLING L U	39362
ROTHMUND P	33484	SALANUBAT G	39313	SCHLOTTHAUER C F	36919	SEARLS E N	40307
ROTHEROCK J T	35785	SALERNO P R	37748	SCHLUCA TSCHUTTNIG N		SEARS P B	38998
ROTTERDAM VEHEENIGING		SALISBURY G W	35292			SEARS P B	40936
VOOR DEN KATOENHANDEL		SALLANS B J	33153	SCHMALFUSS K	35461	SEATON H E	34404
ROUDAT J W	35252	SALMANS B J	33187	SCHMID W	38817	SEATON H E	39928
ROUDIER A J	39765	SALOMON E S	40421	SCHMID W	39822	SEBRELL W L H	41298
ROUDIER A J	39765	SALOMON A	36592	SCHMIDT	39822	SECHET J	33567
ROUJANSKY G	33561	SALOMONI V	35293	SCHMIDT E	38549	SECKMAN M C	34761
ROUSSEAU J	33562	SALTER R M	35208	SCHMIDT G	37752	SEDLACEK M	38711
ROUSSEL L	34401	SALVADOR A N	37221	SCHMIDT H	34174	SEEDIAK H P	36082
ROUSSIAUX P	41045	SALVADOR A N	37576	SCHMIDT J F	34175	SEEDORF W	37606
RUSSOPOULOS N C	41471	SALVADOR A R N	36445	SCHMIDT W	38687	SEELEY D B	38653
ROUX D J	39249	SALVADOR A R N	36446	SCHMIDT W	39823	SEELEY P	39824
ROUX P	36259	SALVATERRA G	37749	SCHMIDT W	38472	SEGAL L	35463
ROWE B M	40019	SALZMANN R	38330	SCHMIDT W	34756	SEGARD C P	41299
ROWELL P T	40419	SAMARIN N G	33753	SCHMIDT W	35988	SEGERTAIN G	33474
ROWELL P T	40420	SAMAT W	37327	SCHMIDT W	37372	SEGU E	38551
ROWLES W F	34076	SAMOILOV I I	35457	SCHMIDT W	37732	SEHMMEYER A	40359
ROWSELL J	37506	SAMOKHINA Z F	33754	SCHMIDT W	40021	SEIBERT J E	38905
ROWSELL J	40358	SAMPAIO R S	33794	SCHMIDT W	40124	SEIXAS C A	38054
ROY J B	37325	SAMPER A	40677	SCHMIDT W	32901	SEIXAS C A	38055
ROY J B	37326	SAMPEY J J	39545	SCHMIDT W	32902	SEKAWIN M	33668
ROYAL HORT SOC	34752	SANBORN N H	39152	SCHMIDT W	39252	SELLE L V	36443
ROYCE R	39114	SANCHEZ M H	35661	SCHMIDT W	34310	SEMASHKO A	39445
ROYNE H	35455	SANCHEZ NIEVA F	33622	SCHMIDT W	41294	SEMENS E S	40023
ROYO A D	37845	SANCHEZ WARROQUIN A	39251	SCHMIDT W	34444	SEMPE H	37045
ROYSTON R	39746	SANCTUARY W C	37119	SCHMIDT W	41436	SEN A B	33190
ROZBOOM L E	38229	SANDAY W J W	34754	SCHMIDT W	40393	SEN B R	35787
ROZENDAAL A	33268	SANDER O	35014	SCHMIDT W	40780	SEN K C	39316
ROZENDAAL A	33281	SANDERS D A	36848	SCHMIDT W	40901	SEN GUPTA J M	40570
RUBENSTEIN A D	38429	SANDERS G P	39546	SCHMIDT W	33644	SEN GUPTA N	38263
RUBIN B A	33640	SANDERS J T	41135	SCHMIDT W	40394	SENEVET G	38231
RUBIN S M	34402	SANDERS R N	36849	SCHMIDT W	38560	SENEVET G	38232
RUBIN S S	35515	SANDERSON C J	36447	SCHMIDT W	38550	SENGER M E	36594
RUCK J	34753	SANDERSON C J	37466	SCHMIDT W	38152	SENGUPTA J C	35017
RUDAKOV K	35271	SANDERSON C J	36675	SCHMIDT W	40901	SENIOR WHITE H	38233
RUDE	33904	SANDERSON C J	36778	SCHMIDT W	35865	SEKANTONI D	36448
RUDEN I	32987	SANDERSON C J	35112	SCHMIDT W	40022	SEKANDOUR P	35814
RUDNICKI J M	38147	SANDERSON J E	38051	SCHMIDT W	40022	SEKANDOUR P	33968
RUDOLF P O	35832	SANDERSON M W	38051	SCHMIDT W	35884	SEKANDOUR P	40448
RUDOLF P O	35925	SANDHOUSE H A	36850	SCHMIDT W		SEKANDOUR P	40571
RUDOLF P O	35926	SANDOZ F	39314	SCHMIDT W		SENGENT C	37388
RUEGAMER W R	36917	SANDOZ F	40440	SCHMIDT W		SENGENT E	37929
RUEHLE G D	33203	SANDUSKY E	36991	SCHMIDT W		SENGENT E	41337
RUEHLE G D	34229	SANDOWELL P R	36023	SCHMIDT W		SENGENT E	41337
RUFFINI C	40898	SANIN L M	38806	SCHMIDT W		SENGIENKO I E	34176
RUFIN G	40306	SANNAC G	34309	SCHMIDT W		SEKIDKO A M	40312
RUGALA A A	41280	SANNIE C	33641	SCHMIDT W		SEKMA SILVA F	40395
RUGGIERI G	33124	SANTA PAULA CITRUS FRUIT		SCHMIDT W		SERRA E F	34313
RUGGIERI G	33125	ASSOC 39821		SCHMIDT W		SERRANO M	33645
RUIG CASTANEUX M	38548	SANTAPAU H	32900	SCHMIDT W		SEKS J	38906
RUKOSUEV A N	39997	SANTOS RUIZ A	33642	SCHMIDT W		SEKS J	38952
RUMERY M G	36596	SANTOS RUIZ A	33651	SCHMIDT W		SESSLER W M	41301
RUMPF H A	40528	SANZ DOMINGUEZ F	33651	SCHMIDT W		SEVERSON H	36595
RUNE O	32814	SANZ EGANA C	37604	SCHMIDT W		SEVERIN H H P	33272
RUNGS C	38050	SAPRIZA VERA C	35813	SCHMIDT W		SEVERIN H H P	33273
RUNNELS H A	33215	SARLES M P	37750	SCHMIDT W		SEVERN M	40422
RUPERT L R	38470	SARR					



SEWELL W E	36676	SIEWERT S	41420	SMITH E J	40904	SPEYER W	41437
SEWELL W E	36677	SIGHARTMER A	38807	SMITH F D	34085	SPIERS R J	39320
SEXTON W A	33569	SIGNORI A	36597	SMITH F F	33246	SPIRKS J W T	34088
SEYFARTH W W	36345	SILKAR	36777	SMITH F F	38552	SPINNER W G	36024
SEYFARTH W W	37328	SILKER R E	37164	SMITH F H	35290	SPINNEY G G	37120
SGAMBATI A	40162	SILLAN P	39683	SMITH G L	35590	SPRIDENOV P V	38006
SHA K	33979	SILVA H	32966	SMITH G L	34446	SPONSER O L	38001
SHABALIN N N	37931	SILVA J G DA	35274	SMITH C W	37332	SPOON W	41301
SHACKLETON P	36165	SILVA J G DA	35275	SMITH H	34408	SPOONER H	35592
SHAFER H E	36688	SILVA P D DA	35990	SMITH H	34775	SPOONER H L	35593
SHAFER C S	37329	SILVA G O Y T I A	37222	SMITH H D P	40310	SPOORRI H	36456
SHAFER C S	37330	SILVEIRA A H M	37256	SMITH H	38712	SPOORRI H	36457
SHAIN S S	33906	SILVEIRA A H M	39929	SMITH H R R	38158	SPHAGUE D C	38857
SHAM E A D	35464	SILVEIRA A H M	39930	SMITH H R R	38159	SPHAGUE MRS H R	35022
SHAN R H	32853	SILVEIRA A H M	40048	SMITH H R S	38160	SPKENGEL A M	34183
SHAND P M	34314	SILVEIRA G G DA	34081	SMITH H S	38331	SPRENGLER	39321
SHANK D B	33683	SILVEIRINHA R	39750	SMITH J	37851	SPHOUSTON T	33195
SHANKLAND H	35110	SILVER M L	36921	SMITH J D	33632	SPHOULL R C	36137
SHARON I O	37025	SILVERSIDES C R	36030	SMITH J H C	33484	SQUIRES A G	37165
SHARON J	37847	SILVESTRI F	38155	SMITH K M M	33261	SQUIRES A G	37334
SHARP D G	33274	SIMEONE D H	36452	SMITH K M M	37756	SREBNIAK V	39552
SHARPE R	33540	SIMEONE D H	37034	SMITH M B	34086	SROKA	37224
SHARPE R H	34249	SIMMONS L	39684	SMITH M B	39071	STABILE J N	39481
SHARRAH A R	36596	SIMMONDS F J	38156	SMITH M R G	38374	STABLEFORTH A W	37471
SHATALOV P I	36273	SIMMONDS P M	33153	SMITH P G F	34927	STACEY W A	35665
SHAUMIAN V A	35587	SIMMONDS P M	33187	SMITH R F L	37852	STADLER H	37361
SHAW A O	36537	SIMMONDS R	41247	SMITH R L E	37853	STADLER H	33910
SHAW A O	36552	SIMMONS F C C	36101	SMITH S E J	33450	STAEHLER H	33911
SHAW A O	36677	SIMMONS F C C	36133	SMITH T J T	33758	STAFFORD E M	38333
SHAW E B	36450	SIMMONS G W JR	34082	SMITH V T	35471	STAFFORD J	36600
SHAW F M	35465	SIMMONS G W JR	34771	SMITH W A	41055	STAFFORD H A O	33577
SHAW W C	41142	SIMMONS J S	38236	SMITH W E	33677	STAFFORD L O	41057
SHAW W C	35122	SIMMONS P	38373	SMITH W P C	33193	STAGNER A M	38658
SHEAR G M	33570	SIMMONS S A	33073	SMITH W P C	33297	STAHL C	33762
SHEAT W G	34763	SIMMONS S A	33192	SMITH W P C	38237	STAHL W H	39688
SHEED C K	38732	SIMMONS S A	33573	SMITH W P C	37610	STAHLER L M	35112
SHEE B W	33980	SIMMONS S W	38220	SMOCK R M	34316	STAHLER N	38243
SHEEHY E J	36346	SIMMONS V L	37508	SMOCK R M	39931	STAIR E C	35041
SHEEHY E J	37507	SIMMS B T	36500	SMOOT J J	39932	STALL C W	35475
SHEELY W J	36851	SIMMONS T	39063	SMOOT J J	33019	STAMP J U	37472
SHEELY W J	37607	SIMMONS T	33276	SMOYER K M M	34231	STAMP L U	38299
SHEETS O D	34406	SIMONPIETRI R H	34406	SMOYER K M M	34232	STANCHY N A	36201
SHEINFELD D	37848	SIMONS A J	36453	SMOYER K M M	33578	STANLEY F E	39689
SHELLON A B	41139	SIMONS R K	34083	SMYTH L E	33283	STANLEY W W	41058
SHEPHERD G G	39554	SIMPSON F J	39902	SNEEDEN J	33283	STANTON B	37757
SHEPHERD H W	37874	SIMS H J	35690	SNELL K	35020	STANTON B	40028
SHEPHERD R E	34764	SIMS J W	33907	SNIDER C F	41056	STANTON H	33077
SHEPPARD A	34765	SINDING A	41143	SNIDER H J	35472	STANTON T R	33763
SHEPPARD B	41052	SINGH C	35991	SNOOK J S	34776	TAPEL FELD F	35791
SHEPPARD M P	37071	SINGH S	36158	SNYDER F M	37894	TAPEL FELD F	33912
SHERBAKOFF C D	39877	SINGH S	35992	SNYDER F M	37895	STARK C H JR	35666
SHERBAKOFF C D	33117	SINTONI E	34380	SNYDER F M	38161	STARK F C JR	35476
SHERBAKOFF C D	33118	SIOUX FALLS STOCK YARDS		SNYDER F M	38162	STARK R W	38474
SHERFF E	34902	CO 40163		SNYDER F M	38163	STARLING T M	37358
SHERMAN R W	32781	SIPPEL H	25964	SNYDER F M	38164	STARNES E B	38110
SHERMAN R W	39154	SIRONI A	37046	SNYDER H J	33909	STARNES O	38110
SHERMAN R W	39835	SIRRI A	33908	SNYDER J C	34317	STAROV M	33678
SHERWIN K A	35705	SIRRI A	36598	SNYDER L C	35021	STATE FED CROP AND LIVE	
SHERWOOD E C	37754	SIRRI A	37609	SOBOLEVSKIA K A	32778	STOCK REPORTING SERV	
SHERWOOD P W	39254	SISLER G P	41144	SOBOLEV S S	35664		
SHETLAND PONY STUD	39254	SISTEK V	35588	SOBOLEV S S	41384	STEARNS C R	37768
SOC 36992		SITCHE D A	37849	SOBRERO L R	36852	STEARNS C R JR	37758
SHEURING J	39548	SITTIG D	36166	SODERBERG E	32906	STEARNS L A	38059
SHEURING J	39549	SITTIG D	38057	SOENEN M A	33075	STEARNS L A	38483
SHEWAN J M	40423	SITTNER F	36347	SOILAND R	40311	STEARNS M	34447
SHEWELL COOPER W E	33275	SITTON B G	35463	SOKJER PETERSEN E	35993	STEBBINS M	33557
SHEWELL COOPER W E	34177	SITTON B G	35467	SOLOLOV D F	35244	STEDEN A	40456
SHEWELL COOPER W E	34178	SIU R G H	39688	SOLOLOVSKY J W	36783	STEDMAN A D	39107
SHEWELL COOPER W E	34179	SIURIN V W	36419	SOLEI I S	37763	STEELE C F	40905
SHEWELL COOPER W E	34180	SIVIERI E M W	36782	SOLLY C	34777	STEELE C M	39075
SHEWELL COOPER W E	34315	SIVORI E M W	35132	SOLOMKIN P S	36455	STEELE J H	36458
SHEWELL COOPER W E	34766	SIVORI E M W	35187	SOLOMKIN P S	36784	STEELE W	35667
SHEWELL COOPER W E	34767	SIZEMORE W R	35895	SOLOPOV G P	34181	STEEN	37166
SHEWELL COOPER W E	34768	SKACHKOV W C	38573	SOLORZANO B P	40424	STEENBERG F	35246
SHEWELL COOPER W E	35018	SKELLEY W C	37550	SOLORZANO B P	38870	STEENLAND A P	37759
SHEWELL COOPER W E	35019	SKELLEY W C	40940	SOMERS I S	39155	STEENLAND A P	40125
SHEWELL COOPER W E	35020	SKELLEY W C	40940	SOMERS I S	40000	STERS MRS J A	40334
SHEWELL COOPER W E	35021	SKELLEY W C	40940	SOMERS I S	37137	STEFANELLI S	36853
SHIKHOBALOVA N P	36454	SKINNER F L	34084	SOMERMAN C H	33194	STEFFEK E F	34779
SHILLIDAY N H	36678	SKINNER F L	34772	SOMERMAN C H	33076	STEFFEN A	34780
SHIMANSKI N K	33961	SKOOG F	33574	SOPENA I	37470	STEIDLE E	41162
SHING K C	34080	SKOVGAARD K	38619	SOPER F L	38190	STEIN C D	36459
SHINNERS L H	32903	SKOVGAARD K	40682	SOPER F L	38238	STEINBACH R JR	39660
SHINNERS L H	32904	SKVEDEN I	39318	SORBI U	40768	STEINBAUER C E	33196
SHIPLEY W C	39317	SKNIABIN K I	36454	SORENSEN E C J	36599	STEINBERG R A	35691
SHIRLEY R L	39018	SKHIPCHINSKII V V	35755	SORENSEN C J	37697	STEINER P	37760
SHIRLOW N S	33595	SKULMOWSKI J	37001	SORENSEN C J W JR	38167	STEINHAUS E A	38381
SHIRREFF W H	37368	SKUTCH A F	35188	SORIANO S	38712	STEINHAUS E A	38475
SHMUEL E	33571	SKUTIL J	33760	SORTDAL K K	40025	STEINHAUS E A	38476
SHOEMAKER J	34405	SKVORTSOV A	35469	SOSA A	35591	STEINHAUS E A	38477
SHOEGREN C B	39446	SLACK D L	39843	SOTO T	33641	STEINHAUS E A	38478
SHOGBRIDGE H W	35273	SLACK E B	41259	SOU E	34182	STEINHAUSER F	41438
SHORT D J	37074	SLACK E B	41300	SOU E	33379	STEINIGER F	38553
SHORIT H E	38234	SLAGSVOLD P L	39686	SOUFFRONT L O	35473	STEINLIN R	36167
SHOTTER H	38656	SLANKIS V	33576	SOUTH F A	37333	STEINMETZ F H	33199
SHOUSHA SIR A T	38154	SLATE G L	34407	SOUTH AFRICAN SUGAR	38800	STEJSKAL	40906
SHOUSHA SIR A T	38235	SLATE G L	34445	MECH COM	38620	STELLWAAG F	37761
SHPIER E E	33191	SLATER J V	32798	SOUTH AFRICAN WOOL DIS		STELZNER G	35023
SHRADER H L	37331	SLATER W K	41054	POSALS ORGAN	39687	STENBERG M	35246
SHREWSBURY J F D	38056	SLAVIK W	35589	SOUTH AUSTRAL WOODS		STENGER K	41302
SHREWSBURY J F D	38512	SLAWINSKI W	33317	FORESTS DEPT	35860	STEPHENS S G	33380
SHRIKHAMDE J G	33572	SLIPP S A	37850	SOUTH SAN FRANCISCO		STEPHENSON R E	35245
SHRIVASTAVA R K	40104	SLOAN G D	35470	STOCK YARDS	40164	STERLING C	33381
SHTEINBERG D M	37626	SLYKHUIS J T	33074	SOUTHERN ENT CO		STEUBING E	33318
SHTOIKO D A	33765	SMALLMAN B N	37640	SOUTHERN PINE ASSOC		STEVENING A	38165
SHUBIN I V	33757	SMALLMAN B N	38058	SOUTHWELL V G		STEVENIUS NIELSEN H	41339
SHULER P E	39749	SMEDGARD T L	33277	SOUTHWEST RES INST		STEVENS A	34781
SHULER P E	39950	SMITH T L	32777	SOUTHWICK F W		STEVENS A	39933
SHULKUM E	33758	SMIRNOV S I	37047	SOUTHWICK F W		STEVENS A E	39934
SHUL G M	33646	SMIRNOV UGRUMOV D V		SOUTHWICK F W		STEVENS G P	32782
SHULTZ E B JR	37369	SMIRNOVA A L	40360	SOUZA H DE	33367	STEVENS J	32782
SHULYNDIN	33759	SMIRNOW L	34773	SOUZA A O DE	40026	STEVENS R F	33238
SHUMAN C B	40823	SMIT B	37755	SOUZA A O DE	40027	STEVENSON F J	33002
SHURLY E	32905	SMIT B	38473	SOUZA J A DE	33795	STEVENSON J A	32987
SHURLY E	34769	SMITH A B	39877	SOUZA O P C DE	36785	STEVENSON V	34783
SHUTE J A	38869	SMITH A C	39551	SOUZA P F M	36241	STEVENSON V	34784
SHVAN KURIISKII I P	34770	SMITH A G	39751	SPAIN R L	38574	STEVENTON J W	35705
SHY J R	33770	SMITH A K	41248	SPANGLO L P	32779	STEWART C W	40312
SICE J	33607	SMITH A M	46501	SPANN J	35111	STEWART G	33319
SICER J W	40309	SMITH C C	41415	SPARAPANI G C	36786	STEWART G H	38659
SIDARAS A P	39255	SMITH C C	41416	SPARROW F K	39319	STEWART G R	35672
SIDWELL G M	37409	SMITH C C	41417	SPAVEN J W	32996	STEWART J	41059
SIDWELL R W	38753	SMITH C F	37398	SPECKMAN R O	33895	STEWART R M	36023
SIEBERT K	41383	SMITH C H	37223	SPEER J	38871	STEWART W S	33578
SIEGMUND O H	36920	SMITH C L	34442	SPEER J	35789	STEWART W S	34233
SIEH C H	36451	SMITH C L	38157	SPEER W A	35790	STEWART W S	39935
SIELING D H	35247	SMITH D H	34774	SPEISER R L	38657	STEYERMARK J A	32780
SIERK C F	37551	SMITH D M	36931	SPENCER E L	39764	STIEHLER R D	40327
SIESS J	37608	SMITH D N	35788	SPENCER L L	35474	STIER R E	36031
SIEVERS A F	35186	SMITH E	39842	SPENCER L L	39376	STIGELBERG M	36854
SIEVERT H H	40947	SMITH E	39895	SPENCER S J	39472	STILES J A	40090
					34778	STILES J W	39108



ITEM	ITEM	ITEM	ITEM
STILLMAN G	33553 SZYMANEK J	39690 THOMAS D G	34795 TRACY P H
STIRLAND L	33197	33914 THOMAS D G	34796 TRACY P H
STIRLING W	34785 TABOR P	33915 THOMAS D G	34797 TRACY P H
STIRNBERG	34319 TABOR P	33679 THOMAS E V	36855 TRACY P H
STITT L	38166 TAGLE F C	41063 THOMAS J E	33812 TRAGER M A
STOA T E	33764 TAIT D M	34791 THOMAS J E	34798 TRAIN M A
STOCKBRIDGE R B	37335 TAKAHASHI W M	33279 THOMAS R B	34384 TRAIN R
STOCKBRIDGE H R	37121 TAKEI S	39182 THOMAS W	41068 TRANTER W W
STOCKERL E	37876 TALBERT T J	34184 THOMASON B H	33239 TRAPPNELL C G
STOCKING M	35946	41150 THOMPSON A H	33202 TRAPPMANN F
STODDARD E M	33113 TALBOT P L	41151 THOMPSON A H	33325 TRASK E E
STOECKEL E H	33078	39555 THOMPSON A H	34245 TRAVASSOS J
STOENNER E H	36765 TALCE D	34409 THOMPSON C G	33081 TRAYER G A
STOISHKIN I A	33765 TALIAFERRO P S	35669 THOMPSON G T	38475 TRAVERSE P M DE
STOKER R I	35189 TALJAARD M S	39753 THOMPSON H C	35670 TRAVIN I S
STOKER W J	38240 TALLARICO G G	40683 THOMPSON H L	33552 TREBUCHET G
STOLL K	33579 TALLARICO G	35793 THOMPSON J I	35708 TREGUBENKO M A
STOLTZ E H	36460 TAMESIS F	38004 THOMPSON M M	39064 TRELOAR L R G
STONG B J	41145 TANASSE C	33796 THOMPSON R C	34093 TREMBLAY R H
STOREY H C	35323 TANG Y S	39082 THOMPSON W C	33586 TREMOUILHE P
STORVICK C A	41266 TANNER F W	35947 THOMPSON W L	37337 TREMAYO J
STORY R P	39396 TANNERHILL R M	40907 THOMPSON W L	37758 TRENCHI H
STOTTER S P	35477 TANNER M E	33198 THOMPSON W L	37768 TRENCH H
STOUT A B	34786 TANON C	33648 THOMPSON W R	38287 TRENK F B
STOUT L	41146 TAPPI G	36787 THOMPSON W R	33917 TRENKLE R
STOUT P H	33580 TAKASOV V R	32909 THOMSEN L C	33918 TRENNER N R
STOUT R E	39344 TAKUIEU BLOT	40480 THOMSEN L C	39326 TRENT A U
STOUTENYER V T	34089 TAKUY L	35479 THOMSEN L C	39447 TRESSLER D K
STOVER W S	36168 TAKRANT H F	33080 THOMSEN L C	39448 TREVAN D J
STOWE E J	34787 TAKROUX M	39183 THOMSEN C C	39556 TREVAN D J
STRACHAN C C	39866 TASMANIA STATIS	32782 THOMSEN E G	35915 TREVISAN G
STRACHAN C C	41303 TATE G H H	38206 THOMSEN H M	38754 TREWARTH G T
STRAIN H H	33484 TATE P	35189 THORNBERRY H H	35794 TRIBE D E
STRANDTMANN R W	37882 TATTERSFIELD F	35190 THORNE G B	33240 TRIBE D E
STRANDTMANN R W	37930 TATUM L A	33695 THOROUGHbred BREEDERS ASSOC 36995	40092 TRIM A R
STRANEO S L	38060 TAUGOURDEAU P H	32910	36789 TRINTIGNAC R
STRANETZ V	40396 TAWELL G H	34092 THRELKELD W L	TRINTIGNAC R
STRASSER W H JR	39752 TAYLOR A J	41064 THURMAN D C	38241 TRIPPLET B
STREET O E	33987 TAYLOR C C	40967 THWING W E	34799 TRIST P J O
STREIT O	39000 TAYLOR B A	36788 TIAZHELNIKOV A D	34323 TRITSCHER
STRELIAEV V P	38681 TAYLOR B R	36603 TIBBETS J	38167 TROGUON W O
STRELKOVA E I	35230 TAYLOR B C	36604 TIEDJENS V A	34094 TROTTER I P
STRENZKE K A	37713 TAYLOR C C	35590 TIEDJENS V A	34095 TROTTER I P
STRICKLAND A H	33679 TAYLOR F J	36684 TIEDJENS V A	35482 TROUT G M
STRIFFELING M	36602 TAYLOR J C	37765 TIEDJENS V A	35483 TROUVELOU B
STRINGHAM E W	37762 TAYLOR J C	37766 TIEMANN H D	36103 TROUW J
STROBL	34090 TAYLOR L	37336 TIERSTEIN V	36996 TROW SMITH R
STROBL W	35094 TAYLOR L	36993 TIERSTEIN V	37049 TROW SMITH R
STROHMEYER G	35861 TAYLOR M I	36994 TIERSTEIN V	36856 TROW SMITH R
STRONG T A	35668 TAYLOR M I	37123 TILDEN J W	37627 TRUBERT E
STRONG W D	34448 TAYLOR P R	37876 TILDEN J W	37769 TRUCCO R E
STRONG W J	38713 TAYLOR P R	37877 TILDEN J W	38479 TRUE L G
STRUB H F	34320 TAYLOR C A	39157 TILDESLEY W	32817 TRUHAUT K
STRUCKMEYER B E	35792 TAYLOR D	35191 TILLIERE A	37854 TRUHAUT K
STRUNZ H	40529 TAYLOR D J	35865 TILLSON E K	36780 TRUITT P T
STRUNZ H	40530 TAYLOR D J	36032 TIMBER DEVLPT ASSOC	TRUMBULL R C
STRUNZ H	40531 TAYLOR J M	38241	36780
STRZEMSKI M	35309 TAYLOR M H	34064 TIMM E	35192 THUMBULL R C
STUART N W	33581 TAYLOR P W	40127 TIMMERMAN F L	37548 THUMP M U
STUART N W	34788 TAYLOR R M	33873 TIMMONS M A H	37548 THUXAL F S
STUCKY R L	37122 TCHAM Y T	40091 TINDALE G B	35099 THYNN R M JR
STUCZYNSKI L A	36764 TEALE E W	38242 TINDALL C	39691 THYNN R M JR
STUIVENBERG J H M VAN	34789 TEARE D W	35268 TINDALL C	39936 TSAO C Y
33582	33424 TEARE D W	37932 TINDALL C	35709 TSCHERMAK WOESS E
STURGES A B	35576 TEEL R	37072 TINDALL C	38575 TSCHERMAK WOESS E
SUBRAMANIAM M K	37382 TEEL MRS A P	38890 TINGEY D C	40093 TSUI C
SUBRAMANIAN V K	41147 TEESDALE L V	40770 TINKHAM E R	35114 TSVETKOV V
SULKIN N M	32880 TEIXEIRA E F	34792 TINKHAM E R	38513 TSYGANOV M S
SULLARDS G F	41066 TELFORD D A	38872 TINKHAM E R	38554 TUD C S
SUMMERHAYES V S	41061 TELLIEZ J	37657 TINKHAM E R	35865 TUEMLER W B
SUMMERS S	37048 TELLIEZ J	36605 TIPPINS H H	36799 TUEMLER W B
SUMMER H	38660 TEMPLETON G S	38661 TIKELLI M	37961 TUFTS W P
SUMNER W D	32997 TEMPLETON W C JR	33679 TISCORNIA M A	38168 TUFTS W P
SUN F	32997 TENN DEPT OF AGR	37399 TISDALE W B	35193 TUFTS W P
SUNBLAD H	39156 TEKEKHOV A F	33916 TISSOT A N	33203 TUKEY H B
SUNDARARAY D D	33860 TERMAN G L	41340 TITOV A	38335 TUKEY H B
SUNDERLAND D	35706 TERMAN G L	32816 TITUS H	39364 TULLY W C
SUNESON C A	38334 TERMOHLEN W D	33199 TITULIN A F	34324 TULOU J
SUNDAM E	36226 TERMOHLEN W D	35395 TIURDENEV A P	35220 TURBE BION M
SUSLOV A F	35913 TERNUS J W	40241 TJEDER B	35026 TURK K L
SUTTON G L	40029 TERRA A	40313 TJENTLAND J	38169 TURK K L
SUTTON T S	36724 TERRILL S W	40314 TOBEY E R	39557 TURK K L
SUTTON W S	39554 TERRY C W	40824 TOCQUEVILLE R DE	35700 TURK K L
SUZANNE Y	40188 TERZIAN L A	40908 TODARO F	40685 TURK K L
SVAGH Z	35246 TERZIAN L A	37537 TODARO F	33431 TUKLAPOVA A P
SVANBERG O	32932 TESCHE W C	38621 TODD C T	35484 TURNER A
SVENSHON H K	35478 TESTONI F K	38244 TOENJES W E	35594 TURNER A B
SVESHNIKOV A M	37763 TETENEV F K	39851 TOEVS J L	34259 TURNER A W
SVIRBELY W J	37931 TETEHEV F K	37420 TOFANI M L	37431 TURNER A W
SVIRIDOV A A	38808 TEUSCHER H	34322 TOLG W R	40030 TURNER C W
SVIRSHCHEVSKII B S	33509 TEUSCHER W L	40684 TOLLEY H R	36168 TURNER D W
SWABEY C	36102 TEXAS STATE DEPT OF AGR	35024 TOLMAN B	40686 TURNER H J
SWAIN L C	41361 THART M L	40684 TOMASELLI R	38623 TURNER H J
SWAIN V S	35088 THATCHER L E	35220 TOMHAVE A E	32998 TURNER P E
SWALLEN J R	35517 THAYER C L	35480 TOMPKINS C M	37167 TURNER W F
SWANSON G I	41062 THE CINCINNATI UNION	33930 TOMSON C K	33273 TURNILL L
SWANSON W H	40224 STOCK YARD CO	33793 TOMKIN J D	41265 TURNELL F M
SWANTON M K	41149 THEIBIS R	40150 TONNINI L	36606 TURKILL W B
SWARBRICK T	34091 THEE J	38622 TORRA M F	36168 TURKILL W B
SWARBRICK T	37764 THEILER M A B	34794 TORNNAR F	40687 TUTTLE H L
SWARTWOUT H G	33079 THEODORIDES J	38242 TORNIELLI A	38682 TUTTLE W W
SWEDEN LANTB	33079 THEODORIDES J	39324 TORNING K	35023 TUTTLE W W
HUSUJURBORSOKSANSTALTEN	33079 THEODORIDES J	33200 TORRAS UNIAETE L	36526 TVERETSKII A V
36348	33079 THEODORIDES J	37959 TORRE R G DE LA	37421 TWINN C H
SWEDEN STATIS CENT	33079 THEODORIDES J	38061 TORRES B A	36791 TYLER J
SWEET C V	33079 THEODORIDES J	41067 TORRES FILHO A	35595 TYLER J G
SWENSON R M	33079 THEODORIDES J	35481 TORRES FILHO A	33082 TYLER W J
SWIFT J E	33079 THEODORIDES J	38062 TORRES PASTOR A	38336 TYMANN V C
SWIFT AND CO	33079 THEODORIDES J	35324 TORTORELLI N	40031 TYRRELL W P
SWINGLE C F	33079 THEODORIDES J	33768 TORTORELLI N	40909 TYRRELL W P
SWINGLE H U	33079 THEODORIDES J	37473 TOSETTI V	38662 TYSSER H F
SWING J M	33079 THEODORIDES J	38194 TOSSUTTI H	37437 TYSZYNSKI H
SWITZERLAND BAUEHNSEKRE	33079 THEODORIDES J	38063 TOTI S J	39558
TARIAT 39181	33079 THEODORIDES J	35996 TOTTENHAM C E	36607 URALDI R H
SWITZERLAND EIDG DEPT DES	33079 THEODORIDES J	36461 TOUMANOFF C	36934 UDALL R H
INNERN STATIS BUR	33079 THEODORIDES J	41249 TOUNUT	33653 UGLAS C AF
SWITZERLAND SCHWEIZER	33079 THEODORIDES J	41289 TOUSSAINT A	38064 UHL C H
ISCHE MILCHKOMMISSION	33079 THEODORIDES J	39429 TOUSSAINT A	38480 UHLINS J
39322	33079 THEODORIDES J	40410 TOVSTOLES M U	37338 UHMANN E
SWORD J	33079 THEODORIDES J	38221 TOWERS K G	34152 UITEWAAL A J A
SYDENHAM F	33079 THEODORIDES J	33547 TOWNSEND P P	36076 ULIANISHCHEV M M
SYLVESTER E S	33079 THEODORIDES J	35025 TOWNSEND J C JR	36792 ULLRICH K
SYMES E L	33079 THEODORIDES J	33646 TOWNSEND J C JR	34800 ULLSTRUP A J
SZANTO I	33079 THEODORIDES J	35707 TOWNSEND H S	37338 ULLSTRUP A J
SZTEYN K	33079 THEODORIDES J	36349 TOXOPEUS H J	39950 UNDERWOOD E J
SZYFES B	33079 THEODORIDES J	41295 TRABAUER F	36922 UNDERWOOD E J
SZYFES B	33079 THEODORIDES J	41296 TRABERG J	33587 UNGLAUB H
			33919 U S COMM ON ORGAM OF THE
			41191 EXEC BR OF THE GOVT



U S CONG HOUSE COM	39068	VAKIN G	35725	VON LOESECKE H W	39774	WEATHERBY C A	41388
U S S R GOSUD NAUCH INST	35326	VARNEY H H	38482	VON SCHUM W	40691	WEATHERBY H A B	35866
U S S R MIN SELSKOGO KHOZ	36466	VASCHKE J B	39327	VORONOV P	38799	WEATHERSBY A B	38243
TEKHNIЧЕСKII SOVET	33433	VASSALEVSKII A	41072	VOS E A	39563	WEATHERSBY A B	38244
U S S R SOVET MIN	35326	VASSA F	39939	VOS M P DE	33384	WEATHERWAX P	33385
UNION OF SO AFRICA DEPT	34096	VAUGHAN E B	33922	VOSKRESENSKII V K	36474	WEAVER G S	36797
UNION OF SO AFRICA DEPT	35863	VAUGHAN H B	35277	VOSKUIL W C	35120	WEAVER L E	37347
OF FORESTRY	35863	VAUGHAN M E	35998	VOSKUIL W C	36861	WEAVER L O	33208
UNION OF SO AFRICA OFF OF	39067	VAUGHAN W J	35030	VOTH W	34808	WEAVER L O	33209
CENSUS AND STATIS	39067	VAUGHAN M L	36611	VRIES E DE	41467	WEAVER L O	33210
UNITED NATIONS ECON AND		VAURIE C	37628	VRIJENH J M	38069	WEAVER L O V	37876
SOCIAL COUNCIL		VAURIE P	33963	VSESOUDEN NAUCH ISSLE		WEAVER L O V	37876
ECON COMN FOR ASIA AND		VAUVEL J	37628	INST MASLICHNYKH KULTUR		WEBB G E V	34817
THE FAR EAST	39696	VAYSSIERE P	39328			WEBB H A	35948
40690		VAYSSIERE P	37859			WEBB H W	34818
UNITED NATIONS SEC DEPT		VAZQUEZ E A	38067			WEBB V	34819
OF ECON AFFAIRS	39001	VECHIO C DEL	40397			WEBB D A	38214
UNITED NATIONS SEC DEPT		VEEN A G VAN	38964			WEBBER A J	35620
OF ECON AFFAIRS	41193	VEERHOFF O	39003			WEBBER I S	32787
UNITED PROVINCES DEPT OF		VELANDER E	33601			WEBER K	39330
AGR	39697	VELDINK J G	33591			WEBER K	39399
UNITED PROVINCES DEPT OF		VELTHUYSEN H	38934			WEBER N A	37629
AGR	40032	VEN R VAN DER	38727			WEBER N A D	36614
UNITED PROVINCES DEPT OF		VENABLES D G	37373			WEBER N A	38376
AGR	40033	VENARD H	40409			WEBER P	34329
U S CIVIL AERONAUT. ADM		VENEZUELA DIR DE AGR	37677			WEBSTER H L	37776
38809		41439	32912			WECK	36001
U S COM ON ORGN OF THE		DEPT DE SUEL08	35209			WEDELL D J	36002
EXEC BR OF THE GOVT		DEPT DE SUEL08	35210			WEIDELL J A	38339
41342		VENEZUELA DIR DE GANAD				WEIDELL J A	38484
PUB LANDS	35597	VENEZUELA DIR DE GANAD				WEEKS B L	37374
U S CONG SENATE COM		36794				WEEKS W D	34330
AGR AND FORESTRY	39757	VENINO P	35677			WEGEN N	34099
APPROPRIATIONS	36465	VENKATARAMANI K S	34235			WEHRHEIM K	37348
APPROPRIATIONS	40443	VENKATARAMAN S V	33205			WEI C T	35358
TO 44		VENKATARAMAN T V	33434			WEIDMANN H	33609
BANKING AND CURRENCY		VENKATARAMAN T V	38375			WEIGEL J W	33597
41344		VENTURI P	38454			WEILL RAYNAL E	40914
INTERSTATE AND FOREIGN		VERA B NAVO M	37579			WEIMER J L	33211
COM	39069	VERA B NAVO M	37579			WEINARD F F	34629
INTERSTATE AND FOREIGN		VERKE J	37228			WEINSTEIN B	39564
COM	39109	VERKE J	39431			WEIR C E	40110
U S GEOL SURVEY	35598	VERKHE E J	36500			WEISER H	39008
U S GEOL SURVEY	35599	VERKHILLE H	35795			WEISS F J	32788
US HOUSING AND HOME FIN		VERKHOOVEN W B L	33083			WEISS F J	40148
AGENCY	36095	VERKHULST M P	39159			WEISS H	40229
U S LAWS STATUTES ETC		VERKINDEN J	41156			WEISS H B	37634
35797		VERKINDEN J	40782			WEITZ B	36798
U S LIBR OF CONG	41385	VERKLINDEN J	35031			WEKRE E	39331
U S NATL COM FOR RAT COM		VERMEIL C	38186			WELCH D S	33212
TROL	41345	VERMEIL C	37380			WELCH F J	35495
U S PUB HEALTH SERV	40957	VERNEDE R V	40939			WELCH J H	35034
U S PAT OFF	34328	VERONA O	35278			WELCH W F	39400
U S PAT OFF	34803	VERZELE M	40425			WELCH W H	41389
UNRAU J	33952	VESSEREAU A	41472			WELD M F	34820
UPSHALL W H	34185	VEYRON J	36354			WELDEN W C	39473
UPTON E	37200	VEZZANI V	36860			WELLHAUSEN H W	39226
UPTON E W	37169	VIANELLO G	36469			WELLINGER J R	39227
UPTON T	40337	VIANELLO G	36470			WELLMAN H	39828
URBANSKI J	38555	VIANELLO G	36612			WELLS J B	34821
URQUHART A R	39684	VIANNA E SILVA M	37772			WELLS S A	33213
URQUHART B	35997	VIANNAY C	33773			WELLS S A	33503
URSIN E	35927	VIAUT P	36924			WELSH M	37476
URVALEK J	33680	VICINI L	37935			WENCK F	37777
USUELLI F	35600	VICTORIA G G	40446			WENGERT N	35726
UTAH AGR COL	40445	VIGAL MUNNE J	36471			WENT F W	33320
UTERHARCK F	36140	VIDELA P H B	37584			WENT F W	33321
VACCARI E	37549	VIGUE T	35119			WENTWORTH E N	36615
VACHON M	37934	VIEGAS AURELIO J L	37936			WENTZ	39759
VAESSEN	36609	VIEIRA G V N	37510			WEHLBERGER G	38629
VAIL G E	40152	VIEIRA L M	40036			WERNER W	34411
VAILLANT F	38170	VIEIRA L M	40227			WEIRTH A V	35249
VAILLANT M	38171	VIEIRHELLER A F	37676			WEST AUSTRIAL FOREST DEPT	
VAISMAN A	37383	VIERI F	40910			35867	
VAISMAN J	37384	VIERI F	40911			WEST G B	41347
VAISMAN J	36467	VIGGIANI G	40912			WEST M J	35035
VAISMAN J	36610	VILCHINSKII N M	34236			WEST W J	38683
VAISMAN J	36793	VILJOEN W C	37052			WESTERBERG F H	39853
VAISMAN J	37422	VILLA U	33084			WESTER R E	33597
VALDES OHNELAS O	36468	VILLAMIZAR A F	33774			WESTERGAARD M	33321
VALENTIN J	35519	VILLAR PALASI V	33642			WESTERN CANAD SOC OF HORT	
VALENTINE D	39397	VILLAR PALASI V	33651			34100	
VALENTINE D	39398	VILLECAS V	40096			WESTERN FORESTRY AND CONS	
VALENZUELA NOVILLO H L		VILLENA B I	38627			ASSOC 35868	
38625		VILLENEUVE P	37341			WESTERN FORESTRY AND CONS	
VALEHY C	35486	VILLERS J	40188			ASSOC 36229	
VALLEREAU W D	33280	VILNER A M	36472			WESTERMANN B D	40152
VALSET T	38911	VINCENT B	39781			WESTERMANN W J	33682
VAN BECKUM W G	36141	VINCENT D	37771			WESTON W A R D	41075
VANCE E H	36681	VINCENT U	37772			WESTON W J	40941
VAN COSTE C	36274	VINCENT G	37342			WETMORE H H	33491
VANDECAVEYE S C	40222	VINE R	35327			WETTSTEIN H H	34412
VAN DEN MUIJZENBERG E		VINE V	40097			WETTSTEIN W	36003
38626		VINOKUROV M A	35248			WETTSTEIN W	36004
VANDERFORD H B	35487	VINOT M	34237			WEYBREW J A	35290
VANDERHOEVEN D	39350	VINTER R A	38733			WHEELER E H	37778
VAN DERLINDEN L	33590	VA COMM TO STUDY THE AD				WHEELER E H	37779
VAN DERLINDEN L	35029	VISABILITY OF ESTAB A				WHEELER G C	38378
VAN DERLINDEN L	35488	SCHOOL OF VET MED	36473			WHEELER H E	33435
VANDERMYDE J B	41155	VA LAWS STATUTES ETC				WHEELER N H	38324
VANHER NOOT G W	37550	35798				WHEELER W C	39076
VANDERVOORT V	37170	VISHER S S	40949			WHEELER W H	34822
VANDERVOORT V	37171	VISINTINI A	36795			WHEETING L C	35496
VANDERSTAR V	38875	VISWANATHAN D K	38245			WHERRY E T	29335
VAN DINE D L	41386	VITTORANGELI R	41387			WHICHER L B	41390
VAN DOREN A	39937	VITTORIA A	32783			WHILLIS J	35036
VAN DOREN A	39938	VITTO M T	33564			WHILLIS J	37780
VAN DRIMMELLEN G C	36716	VLASOV I U F	36998			WHIPPLE C E	40579
VAN ETTE L J	41071	VLASOV S	38912			WHITACHE J	41304
VAN EPPS C F	36194	VODERBERG K	33592			WHITAKER F O	32789
VAN GELUWE J	35117	VOGEL C F	35601			WHITCOMB W D	37781
VAN GELUWE J	35118	VOGLER E	33923			WHITE A	34238
VAN HAARLEM J R	35489	VOGLER E	35491			WHITE B	39073
VAN KONYENBURG J	34805	VOGT G B	38068			WHITE D G	37729
VAN KLECK A	38776	VOISHA	36355			WHITE D J B	33598
VAN NIEL C	33484	VOLLIN L	40579			WHITE F A	34211
VAN POUCKE R F	37536	VOLLEMA J S	40338			WHITE F A	34239
VAN POUCKE R F	37537	VOLLKATH H M	37580			WHITE H F	35497
VAN RENSBERG H J	37492	VOLMER W E JR	33242			WHITE H G	37477
VANSBELL G H	37858	VOLPINI A	35749			WHITE I G	37478
VANSELOW K	35916	VOLPINI C	35815			WHITE J	33228
VANSELOW K	35917	VOLPINI E	36526			WHITE J I	36878
VANSELOW K	35964	VOUZNEV A G	34410			WHITE R G	38578
VANTRESS C D	37124	VONDELING A	40486			WHITE S E	35678
VAN WORMER H M	34806	VONDELL J H	37229			WHITE W H	37782
VAN WYK H P D	36353	VON FISCHER W	40228			WHITEHEAD C E	35037
VANZETTA E	37749	VON HAGEN V W	39940				

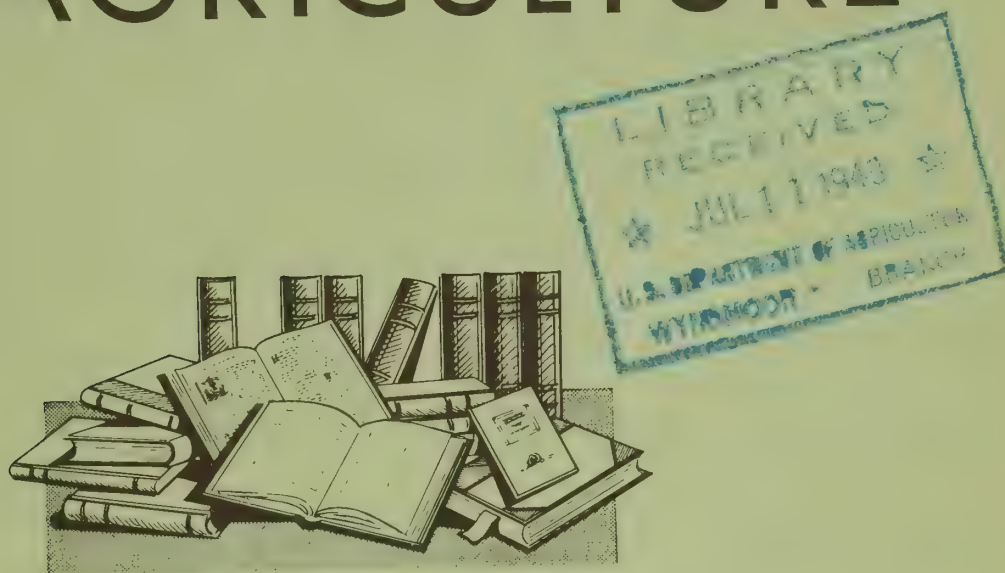


WHITEHEAD G B	37937	WILLIAMS T R	41196	WOLF J P M V U	37785	YOCOM H A	35953
WHITEHEAD J	34823	WILLIAMS W W	37518	WOLFE A M	36617	YOGESWARI L	33603
WHITEHEAD J J	34824	WILLIAMS W O G M	33214	WOLFE L G	33934	YOME H S	37234
WHITEHEAD S B B	35602	WILLIAMS S O N M	36683	WOLFENBARGER D O	38072	YOLO COUNTY CALIF	39184
WHITEHOUSE E W E	35599	WILLIS E H	36799	WOLFF E T	33216	YONKERS A	38171
WHITEMAN J W	34451	WILLIS E H	37631	WOLFF O	39944	YOTHERS W W	39783
WHITFIELD W H	39701	WILLIS E H	38247	WOLFF W H	34829	YOUNG F B	37581
WHITFIELD W H	37172	WILLIS P S	39110	WOLFLE	38073	YOUNG H C	33218
WHITTING F	38666	WILLISON R S	33282	WOLFHAM R	38487	YOUNG H P	39475
WHITTING F	36682	WILLMAN J P A C V	37479	WOLFSTELLER W	36476	YOUNG H P	39476
WHITLOCK R	37479	WILMOUGHBY A C V	34827	WOOD C W	34830	YOUNG M D	38248
WHITLOCK R	36142	WILMOT W A K E V	35604	WOOD C W	34831	YOUNG R A	33111
WHITLOCK R	40950	WILSDON B H	39704	WOOD F B	35605	YOUNG R A	33160
WHITLOCK W W	40506	WILSIE C P	33602	WOOD F L	40324	YOUNG S P	38938
WHITLOW S	40037	WILSON A S B	54186	WOOD G B	40156	YOUNG W	36864
WHITNALL A B M	37937	WILSON E S B	33964	WOOD S F	38340	YOUNGE J	39113
WHITNALL R	39942	WILSON F B B	40400	WOODWARD O	34102	YOUNGE J	40695
WHITNEY L F	36925	WILSON F C F	35750	WOODWARD M D	40810	YOUNGKEN H W	33656
WHITNEY M M	39345	WILSON G F	34828	WOODHILL H A	33799	YOUNKIN J	41214
WHITTEM J H	37477	WILSON H A	37783	WOODMANSEE C W	39775	YUILL W J	36619
WHITTEM J H	37478	WILSON J D	35212	WOODHOFF F B	34832		
WHITTEM R R	33085	WILSON J E	35215	WOODHOFF J G	40167	ZABEL R A	35928
WHITTENBERGER R T	32790	WILSON J L	41077	WOODHOFF J G	41420	ZADRA A	39566
WHITTLE T E	37173	WILSON J R	36684	WOODS E	41266	ZAHN H	39625
WHYTE R O	33929	WILSON K H	37784	WOODS J A JR	36006	ZAHN H	39626
WIBLE R C	36005	WILSON K O	38486	WOODSIDE A M	38341	ZAHN H	39706
WICHA R	40915	WILSON M	35951	WOODSON H E JR	38820	ZAHY K	34836
WICHITA UNION STOCK	YAH08	WILSON M	41212	WOODWARD H R	37174	ZAITSEVA A I	35047
40166		WILSON R A	41251	WOODWARD J	35952	ZAITSEVA A G	36478
WICKARD C R	38937	WILSON R D	33116	WOODMAN J	34833	ZAKHARCHENKO S A	33684
WIDEMIRE E L	39433	WILSON R D	33595	WOOTEN H H	35606	ZAL TSMAN L M	36687
WIEGAND K H	40038	WILSON S G	35713	WOCESTER C	38579	ZALESKA J	36620
WIESE A C	37539	WILSON T I	36475	WOCESTER P F	37233	ZANCHETTA E	40040
WIESENDANGER A K	36950	WILSON W K	33932	WOHK P	35042	ZANDER E U H	37862
WIETING C L	38684	WILSON W K	37371	WOHK P	35043	ZANDER R	32791
WIGGINS I L	32915	WINDHAM E S	39481	WOHK P	35044	ZANNONI I	38631
WIGGINS I L	32936	WINDHAM S L	35038	WOHK P	40362	ZANOLINI G	36479
WIGGINS L F	40399	WINDHAM S L	35039	WORLD POULTRY CONG		ZANOTTI M	36360
WIGHTMAN H	40942	WINDISCH K	39111	CZECHOSLOVAK COM	37351	ZAPPE H A	36997
WIGHMAN H	41076	WINDISCH K	40576	WORTHINGTON J	37127	ZARETT A J	39366
WIJK H VAN DEN	32794	WINE INST TECH ADV COM		WORTHINGTON W H	38811	ZATOCIL G	40232
WILBOHN E U	38630	39259		WOZELLA W W	33683	ZATSEPIN M G B	34837
WILBUR P C	39161	WING A S	35498	WOTTLING H	36686	ZATTA P	39333
WILCKENS H A	36062	WING M W	38379	WRIGHT C M	33283	ZAVAGLI V	37480
WILCOX L V	35250	WING M W	38380	WRIGHT E	39401	ZEHENDER F	36071
WILCOX M S	33533	WINGATE H L	39112	WRIGHT E A	35500	ZENHGRAFF P	35872
WILCZYNSKA H	37908	WINITZKY J	32999	WRIGHT F B	37069	ZEILER K	39378
WILUE E I	35363	WINNER E B	37350	WRIGHT J W	36007	ZEILINGER A	39434
WILUEMAN E DE	33600	WINNIGSTEUT H	39474	WRIGHT T G	35865	ZELLE L V	36503
WILUEMAN E DE	35196	WINSLOW N S	37200	WRIGHT T H	39842	ZELLER J H	37519
WILUMAN A B	39702	WINTER A H	40321	WRINKLE C	40322	ZELLER J H	33000
WILUMAN S G	33654	WINTER A H C	40322	WRZESINSKI R	40916	ZELLE H S M	33219
WILGUS H S	37349	WINTER J C	40039	WU M Y	33974	ZELLEN S M	36865
WILGUS H S	37126	WINTER T	40794	WU M Y	36618	ZEMANEK J	33150
WILGUS H W	36357	WINTER T	40795	WUTKE G	38342	ZENTMYER G A	33220
WILHELM J	41195	WINTERS L M	37551	WYGOZINSKY P	39332	ZENTMYER G A	33221
WILKE F	36941	WINTERS S R	36685	WYLLIE C E	40775	ZEMBAN F W	40401
WILKINS C S	40575	WINTERS S R	39377	WYLLIE J	40791	ZETTY M	36970
WILKINS O P	38246	WINTH	40101	WYMAN O L	35395	ZEZZOS R	40402
WILKINSON G	40774	WINTH	39260	WYNN J	35045	ZHAVORONKOV P A	34331
WILKINSON J F	34452	WISC STATE FORESTRY	ADVI	WYO LIVESTOCK AND SANIT		ZHELOKHOVTSEVA N H	35230
WILL G F	35834	80RY COM 35870	40323	BD 36477		ZHIVOKHOV KH I	36998
WILL G F	40230	WISE H M	35646	WYO U DEVLPMT STUDY COM		ZIEGELMAYER W	39004
WILLIAMS H	38942	WISER J M	33775	41079		ZIELINSKI Q	33604
WILLARD C J	33930	WIT W DE	41222	WYO WOOL GROWERS ASSOC		ZILLER R	35144
WILLARD C J	33931	WITMAN E U	39008	39705		ZIMMERMAN M M	39005
WILLARD C J	35122	WITTE W L	41159	WYSS UNANT E	36359	ZIMO'S	39945
WILLARD C J	39565	WITTE F	37232			ZINK F W	35125
WILLARD C J	39565	WITTE F	38070	XAVIER FILHO S	35046	ZINK L G	35501
WILLCOX J S	41312	WITTWER W	35040	XIMENEZ DE EMBUN Y GON	35817	ZINKIN D	33479
WILLEST E N	34826	WITTWER S H	35499	ZALEZ ANNAO J	36230	ZMAZNEV I B	34187
WILLET E L	41272	WITTWER S H	39163	XIMENEZ DE EMBUN Y GON		ZNAMENSKI V V	34332
WILLIAMS A B	35816	WITZ R L	35871	ZALEZ ANNAO J		ZOBELL H U	35126
WILLIAMS A C	38810	WITZGALL L L	35898			ZOCCOLINI S	35127
WILLIAMS A M	35869	WITZGALL L L	38071	YAGER L	34834	ZOHARY M	32916
WILLIAMS A W	39703	WITZGALL L L	39258	YAGER L	40917	ZOHARY M	33386
WILLIAMS C B	38485	WITZKE W	33933	YAMAGUCHI S	40918	ZOHARY M	33387
WILLIAMS C F	33601	WOBST	36242	YANG H P	33769	ZOKN	39567
WILLIAMS C F	38646	WODERA H	35859	YANG S J	33583	ZUBER M S	33777
WILLIAMS C L	38943	WOHLBERG E T F	36358	YANG W H	37861	ZUCCHINI M	34188
WILLIAMS D E	40100	WOJUA W	39943	YAO T C	41304	ZULUETA J DE	38177
WILLIAMS E W	39162	WOKES F	33655	YARNELL S H	33086	ZUMBHO P B	37352
WILLIAMS H E	33283	WOLCOTT K E	40147	YEAGER A F	33217	ZVERINA F	36866
WILLIAMS H E	34001	WOLF B	36816	YEAGER A F	34413	ZWEIGLE K	34372
WILLIAMS J R	35123	WOLF D C	39201	YEAGER A F	33776	ZWIEGLE K	37053
WILLIAMS J S	35603	WOLF D E	40577	YEAGLE Y	37786	ZWIEGLE K	40325
WILLIAMS L G	33322	WOLF D E	35124	YEOMANS S W	33974	ZYKOV A I	37582
WILLIAMS L O	34224	WOLF F A	35041	YIEN H T	35607		
WILLIAMS P A	40231		33274	YLSTRA J	39019		
WILLIAMS S W	40457						



16  
3471

# BIBLIOGRAPHY OF AGRICULTURE



U.S. DEPARTMENT  
OF AGRICULTURE  
LIBRARY





The subject index for volume 13 of the Bibliography of Agriculture will appear as number 12 of volume 13, the issue of December 1949.

United States Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications, is followed in this publication with the exception of the following: B.—Bulletin; C.—Circular; J.—Journal; P.—Publication; Q.—Quarterly; U.—University; U. S. D. A.—United States Department of Agriculture; Ybk.—Yearbook; Z.—Zeitschrift.

Call numbers following the citations are those of the United States Department of Agriculture Library. Please use them when requesting publications on loan from the Library.

Except for printed publications of the Department of Agriculture which are usually available in limited supply for free distribution, the publications listed herein are not available for free distribution from the Department. However, photoprint or microfilm copies of any publication listed may be obtained from the Library at the following prices:

**MICROFILMS:**

Periodical Articles.—A flat charge of 50 cents for any single article, from any single volume of a periodical.

Books and Serial Publications.—50 cents for each 50 pages or fraction thereof.

**PHOTOPRINTS:**

50 cents for each 5 pages or fraction thereof from any single volume.

**ALL CHARGES ARE CASH WITH ORDER.** (Only Federal agencies are exempt.)

Enclose payment in cash, library coupon or check or money order drawn to the Treasurer of the United States.

**LIBRARY COUPONS**—United States Department of Agriculture Library coupons valued at 50 cents each may be ordered in any quantity.



## UNITED STATES DEPARTMENT OF AGRICULTURE

## LIBRARY

## BIBLIOGRAPHY OF AGRICULTURE

Vol. 13

June 1949  
Items 41473-49484

No. 6

## CONTENTS

	Item		Item		Item
Plant Science	41473-43536	Materials for Soil Improvement		Veterinary Medicine	44691
Systematic and Geographic			44033	Miscellaneous	44815
Botany	41543	Primary Materials	44039	Cattle	44847
Spermatophytes	41567	Secondary and Minor Element		Breeds and Breeding	44847
Pteridophytes	41626	Materials	44046	Feeds and Feeding	44941
Bryophytes	41631	Mixed Fertilizers and Fertilizer		Veterinary Medicine	44984
Algae	41639	Technology	44048	Miscellaneous	45102
Fungi and Lichens	41642	Fertilizer Statistics	44052	Dogs and Cats	45154
Pathology	41672	Mineral Soil Amendments	44070	Breeds and Breeding	45154
Fungus Diseases	41759	Manures and Composts	44074	Feeds and Feeding	45181
Bacterial Diseases	41836	Forestry	44098-44578	Veterinary Medicine	45183
Virus Diseases	41839	Economics and Policy	44098	Miscellaneous	45231
Nematodes	41863	Legislation	44137	Fur Animals - Pen Raised	45246
Ecology	41864	Description and Resources	44138	Breeds and Breeding	45246
Morphology, Anatomy, and		Individual Genera	44157	Feeds and Feeding	45253
Cytology	41887	Forest Administration and		Veterinary Medicine	45259
Genetics	41923	Management	44177	Miscellaneous	45267
Physiology	41965	Farm Woodlands	44201	Horses and Mules	45279
Biochemistry	42109	Mensuration	44217	Breeds and Breeding	45279
Field Crops	42143	Forest Protection and Damage		Feeds and Feeding	45314
Cereals	42169		44228	Veterinary Medicine	45318
Fiber Crops	42266	Fire	44232	Miscellaneous	45364
Forage and Grasses	42290	Silviculture	44245	Laboratory Animals, Small	45390
Oil Crops	42400	Lumbering	44292	Breeds and Breeding	45390
Sugar Crops	42436	Equipment	44295	Feeds and Feeding	45393
Tobacco	42454	Logging	44321	Veterinary Medicine	45396
Horticultural Crops	42470	Lumber Industry	44329	Miscellaneous	45398
Fruits	42564	Sawmills	44359	Poultry	45401
Citrus and Subtropical	42622	Wood Technology	44368	Breeds and Breeding	45401
Deciduous	42637	Preservative Treatment	44375	Feeds and Feeding	45451
Small	42696	Properties and Structure	44398	Veterinary Medicine	45498
Nuts	42779	Seasoning, Conditioning, and		Miscellaneous	45588
Shade Trees and Ornamental		Finishing	44412	Rabbits	45679
Plants	42786	Forest Products	44426	Breeds and Breeding	45679
Vegetables	43237	Building Construction	44454	Feeds and Feeding	45699
Weeds and Poisonous Plants	43381	Charcoal	44462	Veterinary Medicine	45706
Miscellaneous	43472	Containers	44466	Miscellaneous	45717
Soils and Fertilizers	43537-44097	Cork	44471	Sheep and Goats	45724
Soil Science	43537	Naval Stores	44474	Breeds and Breeding	45724
Soil Physics	43545	Plastics	44479	Feeds and Feeding	45741
Soil Chemistry	43567	Pulp and Paper	44480	Veterinary Medicine	45750
Soil Biology	43606	Tanning Material	44500	Miscellaneous	45785
Soil-Plant-Animal Relation-		Veneers, Plywood, and Adhesives		Swine	45809
ships	43630		44504	Breeds and Breeding	45809
Soil Genesis, Formation,		Wood as Fuel	44523	Feeds and Feeding	45823
Classification, and Mapping		Miscellaneous	44530	Veterinary Medicine	45845
	43647	Education	44565	Miscellaneous	45874
Soil Management	43694	Forest Engineering	44571	Entomology	45894-46513
Soil Fertility	43711	Forest Influences	44573	General - Economic	45909
Tilth and Tillage	43867	Wildlife	44578	Apiculture and Apis Mellifera	
Drainage, Irrigation, Water		Animal Industry	44579-45893		46042
Supply, etc.	43891	Breeds and Breeding	44579	Colony Management	46119
Erosion and Control	43962	Feeds and Feeding	44612	Arachnida, etc.	46143
Sanitation	44026			Coleoptera	46174

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.  
\$6.00 per year, domestic; \$8.00 per year, foreign. Single copies vary in price.



	Item		Item		Item
Diptera	46244	Grading, etc.	46945	Inflation	48451
Culicidae	46304	Packing and Packaging	46959	Insurance	48453
Hemiptera	46331	Prices, etc.	46960	Taxation	48475
Hymenoptera	46368	Processing and Storage	46995	Agricultural Labor and Wages	
Lepidoptera	46395	Statistics	47040		48500
Orthoptera	46452	Beverages and Condiments	47081	Agriculture - Situation, Policies	
Sericulture and the Silkworm	46475	Dairy Products	47160	and Programs	48550
Smaller Orders	46482	Analysis and Composition	47217	Subsidies	48702
Agricultural Engineering	46514-	Consumption, etc.	47271	Cost and Standard of Living	48703
	46877	Distribution, etc.	47275	Farm Management and Land	
General and Miscellaneous	46514	Grading, etc.	47315	Economics	48708
Machines and Equipment	46534	Packing and Packaging	47345	Bookkeeping and Records	48781
Animal Husbandry	46595	Prices, etc.	47356	Costs and Returns	48783
Cultivation and Tillage	46608	Processing and Storage	47366	Land Settlement and Colonization	
Fertilizer and Seed Distributors		Statistics	47461		48817
	46627	Feed and Forage Crops	47469	Land Tenure	48832
Harvesting	46634	Fibers and Textiles	47488	Land Utilization	48891
Land Clearing	46649	Fruits, Vegetables, and Nuts	47621	Land Values, etc.	48908
Processing Equipment Used on		Analysis and Composition	47665	Population	48916
the Farm	46652	Consumption, etc.	47676	Rural Social Organization	48925
Repair, Maintenance, and Con-		Distribution, etc.	47681	Human Ecology	48940
struction	46666	Grading, etc.	47708	Institutions	48950
Spraying and Dusting	46671	Packing and Packaging	47719	Leadership	49061
Vehicles	46685	Prices, etc.	47724	Rural Organizations and	
Structures and Rural Housing	46731	Processing and Storage	47731	Movements	49070
Animal Shelters and Service		Statistics	47806	Rural Social Psychology	49192
Buildings	46738	Grain and Grain Products	47813	Trade, Foreign and International	
Farmhouses and Farmsteads		Honey and Beeswax	47921		49197
	46771	Livestock and Livestock Products		Food and Human Nutrition	49250-
Greenhouses and Plant Service			47930		49334
Buildings	46780	Analysis and Composition	47990	Food Habits	49303
Materials and Methods	46794	Consumption, etc.	47994	Nutritive and Vitamin Content	
Storage Structures	46801	Distribution, etc.	47997		49305
Walls and Fences	46814	Grading, etc.	48014	Miscellaneous	49335-49484
Utilities	46821	Prices, etc.	48031	History and Biography	49382
Electricity and Electrification		Processing and Storage	48035	Home Management	49417
	46821	Statistics	48051	International Relations	49424
Heating, Lighting, and Radiation		Oils and Oilseeds	48063	Meteorology	49433
	46850	Poultry and Poultry Products	48157	Personnel	49448
Power Plants, Motors and		Rubber and Rubber Substitutes		Research	49450
Engines	46854		48241	Statistics	49476
Sewage and Waste Disposal	46859	Seeds	48261	U. S. D. A. Publications	p. 169
Telephones	46861	Sugar and Sirups	48283		
Water Supply	46867	Tobacco	48338	State Agr. Expt. Sta. Publications	
Agricultural Products: Processing,		Miscellaneous Products	48372		p. 174
Distribution, and Statistics	46878-	Agricultural Economics and Rural		State Agr. Ext. Serv. Publications	
	48389	Sociology	48390-49249		p. 177
Analysis and Composition	46908	Agricultural Finance	48407		
Consumption, etc.	46920	Credit	48417	AUTHOR INDEX	p. 181
Distribution, etc.	46925	Income	48447		

Published with the Approval of the Director of the Bureau of the Budget.



## PLANT SCIENCE

## GENERAL

- 41473 AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS. Directory of members. Amer. Soc. Plant Physiol. B. 17, 28 p. 1949. 451 Am3
- 41474 ANGELY, J. Dictionary of botanical terms. (In Portuguese.) Rev. da Flora Med. 15: 507-531. (Cont.) Dec. 1948. 71.8 R32
- 41475 ANGELY, J. Plant systems. (In Portuguese.) Rev. da Flora Med. 15: 532-552. (Concl.) Dec. 1948. 71.8 R32
- 41476 ARISZ, W. H. In open waters. (In Dutch.) Nederland. Kruidk. Arch. 56: 73-82. Jan. 1949. 451 N28
- Botanical Society of the Netherlands.
- 41477 AUDET, L. P. Sommes-nous vraiment le pays de l'érable? Abeille et l'Érable (ser. 2) 18: 29. (To be cont.) Mar. 1949. 424.8 Ab32
- Canada.
- 41478 BACKEBERG, C. A journey to the exotic garden of Monaco. Desert Plant Life 21: 39-42. Mar. 1949. 450 D45
- 41479 BECKER, J. Analyse pollinique de tourbières hypno-caricières de Savoie et de Haute-Savoie. Paris. Acad. des Sci. Compt. Rend. 228: 762-764. Feb. 28, 1949. 505 P21
- 41480 BOUREAU, E. Étude paléoxilologique du Sahara: présence du Dadoxylon (Araucarioxylon) dallonii n. sp. Paris Mus. d'Hist. Nat. (ser. 2) 20: 420-426. June 1948. 410.9 P213
- 41481 BRIEN, P. Proposition d'incorporer les mangroves des criques de l'estuaire du Congo dans les Parcs Nationaux de la Colonie. Inst. Roy. Colon. Belge. B. des Seances 19: 764-767. 1948. 504 B836
- Includes discussion.
- 41482 BROWNELL, L. W. Wild vines to photograph. Amer. Photog. 43: 244-247, 257. Apr. 1949. 332.8 Am3
- 41483 CALAM, C. T., and HOCKENHULL, D. J. D. The production of penicillin in surface culture, using chemically defined media. J. Gen. Microbiol. 3: 19-31. Ref. Jan. 1949. 10 J822
- 41484 CHANEY, R. W. The Miocene occurrence of Sequoia and related conifers in the John Day Basin. Natl. Acad. Sci. Proc. 35: 125-129. Ref. Mar. 1949. 500 N21P
- 41485 CLOS, E. C., and PORTA, J. E. Inventario de plantas introducidas. 1-3, Jan.-June 1948. Argentina. Div. de Exploraciones e Introducc. de Plantas. Volante 6, 3 p.; 7, 3 p.; 8, 3 p. July-Sept. 1948. 83 Ar3
- 41486 COHEN, N. McKee Jungle Gardens, Vero Beach, Florida. Amer. Orchid Soc. B. 18: 225-228. Apr. 1949. 80 Am329
- 41487 COOLHAAS, C. Plantenteeltkundige vraagstukken in verband met het herstel van landbouwbedrijven in Indonesië [The cultivation of crops in connection with the establishment of agriculture in Indonesia]. Wageningen, Veenman, 1948. 23 p. 37 C77
- 41488 COPENHAGEN. UNIVERSITY. BOTANIC GARDEN. Index seminum. 1949. 32 p. 61.5 C79
- 41489 CORREVON, A. La protection de la flore suisse. B. Hort. (n. s.) 4: 35-39, 41. Feb. 1, 1949. 80 B873
- 41490 CROCKET, R. A visit to the botanical gardens, Montreal, Canada. Prof. Gard. 1: 50-51. Feb. 1949. 80 P945
- 41491 DAVIS, P. H. A journey in south-west Anatolia. I-II. Roy. Hort. Soc. J. 74: 104-115, 154-164. Mar.-Apr. 1949. 84 L84J
- 41492 DOIGNON, P. Cratoneurum commutatum (Bryophytes) à l'état fossile, dans les Tufs Pleistocènes de La Celle-sur-Seine (Seine-et-Marne). Feuille des Nat. (n. s.) 4: 11. Jan. 1949. 410 F432
- 41493 EDEES, E. S. The early history of field botany in Staffordshire, 1597-1839. North Staffordshire Field Club. Trans. & Ann. Rpt. (1947/48) 82: 81-110. Ref. 1948. 501 N81
- 41494 EGLER, F. E. Regional vegetation literature. II. Rhode Island. Phytologia 3: 49-56. Ref. Mar. 1949. 450 P563
- 41495 ERDTMAN, G. Algunos aspectos de la palinología. Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An. 7: 357-363. Ref. May/Aug. 1948. 506 Sp12
- 41496 ERDTMAN, H., and GRIPENBERG, J. Antibiotic substances from the heart wood of Thuja plicata D. Don. II-IV. Acta Chem. Scand. 2: 625-650. 1948. 385 Ac82
- Pt. III by J. Gripenberg; pt. IV by A. B. Anderson and J. Gripenberg.
- 41497 EYSTER, W. H. Botany for the gardener. 17. Organic Gard. 14(4): 25-27. Apr. 1949. 56.8 Or3
- 41498 FENAROLI, L. The plant and seed introduction service in the United States and opportunity for a similar enterprise in Italy. (In Italian.) Ann. della Sper. Agr. (n. s.) 2(5): LXXXIII-CV. 1948. 16 An76
- English summary.
- Work of the Division of Plant Exploration and Introduction.
- 41499 FIRSOVA, M. K. Research institutions in the struggle for the harvest. (In Russian.) Selekt. i Semen. 15(8): 66-72. Aug. 1948. 61.9 Se5
- 41500 FRANCO, C. M., and COSTA, A. S. A simple aerator for nutrient solutions. Plant Physiol. 24: 320-322. Apr. 1949. 450 P692
- 41501 FREEMAN, G. G., and MORRISON, R. I. Some biological properties of trichothecin, an antifungal substance from Trichothecium roseum Link. J. Gen. Microbiol. 3: 60-68. Ref. Jan. 1949. 10 J822
- 41502 FROHLICH, J. Was die probeflächen aus den urwaldresten des nördlichen Salzkammergutes erkennen lassen. Österr. Forst- u. Holzwirtsch. 3: 295-296. (Concl.) Oct. 7, 1948. 99.81 Os7
- 41503 GOULD, N. K. The Royal Horticultural Society's Gardens, Wisley, Surrey, England. Arboretum B. 12: 5-7, 43. Spring 1949. 451 Ar1
- 41504 GROSSGEIM, A. A. Rastitel'nyĭ pokrov Kavkaza [Vegetation of the Caucasus]. Moskva, Moskovskoe Obshchestvo Ispytatelei Prirody, 1948. 264 p. Ref. (Materialy k Poznanifu Fauny i Flory SSSR, n. s. Otd. Bot. 4) 459.2 M41
- 41505 HARRIS, T. M. Recent developments of palaeobotany. Sci. Prog. 37: 219-231. Apr. 1949. 472 Sci22
- 41506 HAY, R. Seeds have secrets. Young Farmer 17: 71-72. Mar./Apr. 1949. 10 Y82
- Chiefly germination.
- 41507 KIRPICHNIKOV, M. È. Formaldehyde method of drying plants. (In Russian.) Priroda 37(9): 64. Sept. 1948. 410 P933
- 41508 LEONT'EV, I. F. Radioactive penicillin. (In Russian.) Priroda 37(11): 52. Ref. Nov. 1948. 410 P933
- Experiment with Penicillium notatum and radioactive sulfur.
- 41509 LE ROUX, S. F. A fossil plant, of the genus Pecopteris, from Vereeniging. So. African Sci. 2: 132-133. Jan. 1949. 475 So8
- 41510 LEWIS, G. M., and HOPPER, M. E. Anti-fungal agents derived from bacteria (further experience with fungistatin). U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1274-1277. 1948. 150 In822
- 41511 LOUBIÈRE, A. Aperçu général sur les tiges arborescentes des Marattiacées paléozoïques. Paris Mus. d'Hist. Nat. (ser. 2) 20: 416-419. June 1948. 410.9 P213
- 41512 LULLA, B. S. Antibiotic activity as shown by a highly amyolytic strain of Bacillus subtilis. Nature [London] 163: 489. Mar. 26, 1949. 472 N21
- 41513 MANGELSDORF, P. C., and SMITH, C. E., JR. New archaeological evidence on evolution in maize. Harvard U. Bot. Mus. Leaflet 13: 213-247. Ref. Mar. 4, 1949. 451 H262
- 41514 MITRA, G. C., CHANDRAN, K. R., and RAO, N. K. S. Search for antibacterials in phanerogams. I. Sci. and Cult. 14: 315-317. Ref. Feb. 1949. 475 Sci24
- 41515 MULLIGAN, B. O. Some arboreta and botanic gardens of the eastern U.S.A.; fall, 1948. Arboretum B. 12: 15-18, 32. Spring 1949. 451 Ar1
- 41516 MUNZ, P. A. The Rancho Santa Ana Botanic Garden. Amer. Rock Gard. Soc. B. 7: 12-14. Jan./Feb. 1949. 81 Am342
- 41517 MURPHY, G. E. B. Discovering New Zealand. Nat. Hist. 58: 172-179, 192. Apr. 1949. 500 N483J
- Includes vegetation.
- 41518 ORLOVSKII, N. I. New method of marking leaves of plants during mass investigations. (In Russian.) Selekt. i Semen. 15(6): 21-24. June 1948. 61.9 Se5



- 41519 PALMER, E. L. A peat bog log. *Nature Mag.* 42: 226-229. May 1949. 409.6 N214
- 41520 PEJML, K. Adam Zalužanský de Zalužan, sa personnalité et son oeuvre en tenant compte de son ouvrage "Methodus Herbariae Libri Tres." (In Czech.) U. Karlový. Přírod. Fakult. Spisy Vydávané 183: 9-13. 1948. 510 P883  
French summary.
- 41521 ROQUES, H. Sur la présence d'un principe antibiotique—lecanorine A—chez un lichen du genre *Lecanora* et ses conséquences biologiques. *Soc. de Biol. Compt. Rend.* 142: 1529-1532. Dec. 1948. 442.9 P21
- 41522 ROUSSEAU, J. The vegetation and life zones of George River, eastern Ungava and the welfare of the natives. *Arctic* 1: 93-96. Autumn 1948. 470 Ar22
- 41523 SALLE, A. J., JANN, G. J., and ORDANIK, M. Lupulon—an antibiotic extracted from the strobiles of *Humulus lupulus*. *Soc. Expt. Biol. & Med. Proc.* 70: 409-411. Mar. 1949. 442.9 S01
- 41524 SARTORY, A., QUEVAUVILLER, A., and RICHARD, P. De quelques phanérogames douées de propriétés antibiotiques in vitro. *Paris. Acad. des Sci. Compt. Rend.* 228: 782-784. Feb. 28, 1949. 505 P21
- 41525 SCHOPF, J. M. Precedence of modern plant names over names based on fossils. *Science* 108: 483. Oct. 29, 1948. 470 Sci2
- 41526 SHINNERS, L. H. Early plant collections return to Texas. *Field and Lab.* 17: 66-68. Apr. 1949. 470 F46
- 41527 SIAM. FOREST DEPT. Siamese plant names. Bangkok, 1948. 504 p. 460.13 S11  
Text in Siamese and English.
- 41528 SIMONS, A. J. How vegetables were named. *Gard. Work Amateurs* 69: 319-320, 322. Jan. 1, 1949. 80 G1627
- 41529 SPARN, E. Lista sistemática de los nuevos generos, especies y variedades de plantas y animales fosiles de la Argentina cuyas descripciones se publicaron durante 1945-1947. *Córdoba. U. Nac. Facul. de Cien. Exact., Fís. y Nat. Rev.* 11: 575-601. Ref. 1948. 516 C81B
- 41530 SZAFAER, W. The genus *Tsuga* Carr. from the Tertiary deposits of Europe. (Abs.) *Akad. Umiejetości. Wyzd. Mat.-Przyrodniczy. Compt. Rend.* 1948 (4/6): 10-11. Apr./June 1948. 512 K85C
- 41531 SZAFFRAN, B. Flore plicéne des mousses de Krościenko sur le Dunajec en Pologne. (Abs.) *Akad. Umiejetości. Wyzd. Mat.-Przyrodniczy. Compt. Rend.* 1948(2/3): 9. Feb./Mar. 1948. 512 K85C
- 41532 TEHON, L. R. Pleasure with plants. *Rev. ed. Ill. Nat. Hist. Survey. C.* 32, 32 p. Feb. 1949. 410.8 IL6C
- 41533 TEXERA, D. A. Producción de substancias antibióticas por hongos del género *Fusarium*. *Rev. de Med. Vet. y Parasitol.* 7: 65-144. Ref. 1948. 41.8 R3293  
Thesis - Rutgers University.
- 41534 THOMPSON, J. My visit to the Fairchild Tropical Garden. *Prof. Gard.* 1: 83-84. Mar. 1949. 80 P945
- 41535 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. New plants for old, by R. Heinen and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11
- 41536 VANIN, S. I. Nuts which had been found in coffins in Kerch. (In Russian.) *Priroda* 37(11): 60-62. Ref. Nov. 1948. 410 P933
- 41537 VASIL'EV, I. S. Observations on the retention of precipitation by tree crowns. (In Russian.) *Voprosy Geog.* 7: 162-170. 1948. 331.8 V89
- 41538 WAKSMAN, S. A., and LECHEVALIER, H. A. Neomycin, a new antibiotic active against streptomycin-resistant bacteria, including tuberculosis organisms. *Science* 109: 305-307. Ref. Mar. 25, 1949. 470 Sci2
- 41539 WARD, J. D. U. The Englishman's attitude to trees. *Country Life [London]* 105: 738-739. Apr. 1, 1949. 80 C83
- 41540 WELSCH, M., and SALMON, J. Préparations permanentes de spores de champignons. *Soc. de Biol. Compt. Rend.* 142: 1587-1588. Dec. 1948. 442.9 P21
- 41541 WIGG, L. T. The urgent need for uniformity in African vegetation description. *Empire Forestry Rev.* 28: 14-17. Mar. 1949. 99.8 Em72
- 41542 ZANDER, R. International verbindliche regeln für die benennung von pflanzen. *Süddeut. Erwerbsgärt.* 2: 17-18. Mar. 1948. 80 S02
- SYSTEMATIC AND GEOGRAPHIC BOTANY
- General
- 41543 BAYLIS, G. T. S. Vegetation of Great Island, Three Kings group. *Auckland Inst. and Mus. Rec.* 3: 239-252. Dec. 20, 1948. 514 Au22R
- 41544 BREISTROFFER, M. Aperçu sur la flore de Tende-La Brigue (Alpes-Maritimes). *Feuille des Nat. (n. s.)* 3: 77-79. June/July 1948. 410 F432
- 41545 CHETYRKIN, V. M. Geographic characteristics of dry-land farming and irrigated southern districts of Middle Asia. (In Russian.) *Voprosy Geog.* 1948(10): 165-176. 1948. 331.8 V89
- 41546 COOKE, W. B. Second supplement to the flora of Mount Shasta. *Amer. Midland Nat.* 41: 174-183. Ref. Jan. 1949. 410 M58
- 41547 DOIGNON, P. Le marais alcalin d'Episy (S.-et-M.), remarquable station relicte de la flore glaciaire dans la région parisienne. *Feuille des Nat. (n. s.)* 3: 94-95. Oct. 1948. 410 F432
- 41548 GAUBA, E. Contributions to the flora of South Australia. III. *Victorian Nat.* 65: 183-186. Dec. 1948. 410 V66
- 41549 GUILLAUMIN, A. Contributions à la flore de la Nouvelle-Calédonie. LXXXVIII-LXXXIX. *Paris Mus. d'Hist. Nat. (ser. 2)* 20: 352-380. June 1948. 410.9 P213  
LXXXVIII. Flore des rivages et îlots de la région de Nouméa. Plantes récoltées par M. J. Barrau. LXXXIX. Flore de Prony (plantes récoltées par Cribis.). Includes new species in Eugenia.
- 41550 HUARD, G. Note sur la flore d'un secteur littoral de la Région Granvillaise. Saint-Pair-sur-Mer—Kairon-sur-Mer (Manche). *Feuille des Nat. (n. s.)* 3: 33-35. Mar./Apr. 1948. 410 F432
- 41551 JANSEN, P. Floristic notes. XXXV. (In Dutch.) *Nederland. Kruidk. Arch.* 56: 243-248. Jan. 1949. 451 N28
- 41552 KELSEY, H. P. Unique flora of the Great Smoky Mountains National Park. *Arboretum B.* 12: 11-13, 30. Spring 1949. 451 Ar1
- 41553 KLOOS, A. W., JR. Additions to the Netherlands flora in 1944. (In Dutch.) *Nederland. Kruidk. Arch.* 56: 162-198. Jan. 1949. 451 N28
- 41554 LITARDIÈRE, R. DE. Nouvelles contributions à l'étude de la flore de la Corse (fascicule 7). *Candollea* 11: 175-227. 1947/48. 451 C16
- 41555 MATHON, C. De la distribution de quelques plantes méditerranéennes dans la Montagne de Lure (Basses-Alpes). 2. *Paris Mus. d'Hist. Nat. (ser. 2)* 20: 402-407. June 1948. 410.9 P213
- 41556 MOLDENKE, H. N. Notes on new and noteworthy plants. VII. *Phytologia* 3: 58-64. Mar. 1949. 450 P563  
Includes new spp. in: *Bouchea*, *Citharexylum*, *Duranta*, *Lippia*, *Somphoxylon*, and *Verbena*.
- 41557 OLIVER, W. R. B. The flora of the Three Kings Islands. *Auckland Inst. and Mus. Rec.* 3: 211-238. Ref. Dec. 20, 1948. 514 Au22R
- 41558 PULLE, A., ed. Flora of Suriname (Netherlands Guyana), v. 1, pt. 1. *Indisch Inst. Afid. Handelsmus. Meded.* 30: 273-524. Apr. 1948. 503 Am82
- 41559 SÃO PAULO, BRAZIL. INSTITUTO DE BOTÂNICA. A flora do Distrito de Ibiti; (ex-Monte Alegre), município de Amparo, by M. Kuhlmann and E. Kühn. São Paulo, 1947, pub. 1948. 221 p. (Publicação da Série "B") 457.2 Sa63
- 41560 SCHOFIELD, W. Notes on the flora of Kings County, Nova Scotia. *Canad. Field-Nat.* 63: 44-45. Jan./Feb. 1949. 410.9 Ot8
- 41561 STUPKA, A. Some plants of the Great Smoky Mountains National Park. *Gard. Club Amer. B. (ser. 11)* 13: 14-18. Mar. 1949. 90.32 G16
- 41562 SZYMKIEWICZ, D. Études phytogéographiques IV-V. (Abs.) *Akad. Umiejetości. Wyzd. Mat.-Przyrodniczy. Compt. Rend.* 1948(1): 12-13. Jan. 1948. 512 K85C  
IV, Australia; V, New Zealand.
- 41563 SZYMKIEWICZ, D. Les familles dans les flores. (Abs.) *Akad. Umiejetości. Wyzd. Mat.-Przyrodniczy. Compt. Rend.* 1948(4/6): 6-7. Apr./June 1948. 512 K85C
- 41564 TURNER, G. H. Plants of the Edmonton District of the Province of Alberta. *Canad. Field-Nat.* 63: 1-28. Jan./Feb. 1949. 410.9 Ot8



41565 WHITE, S. S. The vegetation and flora of the region of the Río de Bavispe in northeastern Sonora, Mexico. *Lloydia* 11: 229-302. Dec. 1948. 442.8 L77

41566 WILLIS, J. H. Winter botanizing on the Mugga Mugga, Canberra. *Victorian Nat.* 65: 192-195. Dec. 1948. 410 V66

### Spermatophytes

41567 BABÉ, E. Introduction de *Eranthis hiemalis* (Salisbury) en forêt de Sénart (Seine-et-Oise). *Feuille des Nat. (n. s.)* 3: 101. Nov./Dec. 1948. 410 F432

41568 BACKEBERG, C. Notes on *Oreocerei*. *Desert Plant Life* 21: 4-9. Jan. 1949. 450 D45

41569 BARROS, M. Una especie nueva de *Carex*. *Darwiniana* 8: 409-410. Oct. 1948. 450 D25

41570 BOITEAU, P., and MANNONI, O. Les *Kalanchoe*. *Cactus [Paris]* 1948: 57-58. (Cont.) Oct./Dec. 1948. 450 C114

41571 BOIVIN, B. Two new *Thalictra* from western Canada. *Canad. Field-Nat.* 62: 167-170. Nov./Dec. 1948. 410.9 Ot8

41572 BRUSH, W. D. Bristlecone pine, *Pinus aristata*, Engelm. *Amer. Forests* 55(4): 28-29. Apr. 1949. 99.8 F762

41573 CIERNICK, D. Botany and distribution of *Cypripediums*. *Orchid Digest* 13: 298-299. Jan./Feb. 1949. 80 Or172

41574 CORY, V. L. *Monarda punctata* L. var. *maritima* Cory, var. nov. *Field and Lab.* 17: 52. Apr. 1949. 470 F46

41575 CORY, V. L. A new Texan form of *Castilleja indivisa* Engelm. *Field and Lab.* 17: 64-65. Apr. 1949. 470 F46

41576 CORY, V. L. On some grasses, chiefly of the Edwards Plateau of Texas. *Field and Lab.* 17: 41-52. Apr. 1949. 470 F46

41577 DENTAL, J. B., and DENTAL, R. La flore australienne sur la Côte d'Azur. *Rev. Hort. [Paris]* 120: 284-286. Aug./Sept. 1948. 80 R32

41578 FRIES, M. Den nordiska utbredningen av *Lactuca alpina*, *Aconitum septentrionale*, *Ranunculus platanifolius* och *Polygonatum verticillatum*. Die nordische verbreitung von *Lactuca alpina*, *Aconitum septentrionale*, *Ranunculus platanifolius* und *Polygonatum verticillatum*. *Acta Phytogeog. Suecica* 24, 80 p. Ref. 1949. 451 Ac82

German summary.

41579 GENTRY, H. S. On the hundredth anniversary of *Fouquieria splendens*. *Desert Plant Life* 21: 11-13. Jan. 1949. 450 D45

41580 GRONDONA, E. M. Las especies argentinas del género *Polygala*. *Darwiniana* 8: 279-405. Oct. 1948. 450 D25

41581 HATCH, E. D. *Aporostylis* R. and Hh., *Townsonia Cheesmanii*, and the New Zealand forms of *Chiloglottis* R. Br. *Roy. Soc. New Zeal. Trans. & Proc.* 77: 226-229. Feb. 1949. 514 W96

41582 HATCH, E. D. *Lyperanthus antarcticus* Hook. f. and the New Zealand forms of *Gastrodia* R. Br. *Roy. Soc. New Zeal. Trans. & Proc.* 77: 230-233. Feb. 1949. 514 W96

41583 HATCH, E. D. The New Zealand forms of *Calochilus* R. Br. *Roy. Soc. New Zeal. Trans. & Proc.* 77: 247-249. Feb. 1949. 514 W96

41584 HATCH, E. D. The New Zealand forms of *Pterostylis* R. Br. *Roy. Soc. New Zeal. Trans. & Proc.* 77: 234-246. Feb. 1949. 514 W96

41585 HEYWOOD, V. H. A new *Digitalis* (*D. davisiana*) from southern Anatolia. *Roy. Hort. Soc. J.* 74: 164-165. Apr. 1949. 84 L84J

41586 HOCHREUTINER, B. P. G. *Triumfetta nova africana* (Tiliaceae). *Candollea* 11: 37-38. 1947/48. 451 C16

41587 HODGE, W. H., and GUTIERREZ V., G. Lista preliminar de las plantas vasculares nativas del Departamento de Antioquia, Colombia. Suplemento I. Colombia. *U. Nac. Facul. Nac. de Agron. Rev.* 8: 414-426. Dec. 1948. 9.4 C717

41588 HORN AF RANTZIEN, H. Some taxonomical and phytogeographical problems in *Pleurospermum austriacum* (L.) Hoffm. em. Turcz. *Candollea* 11: 9-30. Ref. 1947/48. 451 C16

41589 HOTCHKISS, N., and DOZIER, H. L. Taxonomy and distribution of N. American cat-tails. *Amer. Midland Nat.* 41: 237-254. Jan. 1949. 410 M58

41590 JOHNSTON, I. M. Studies in the Boraginaceae, XVIII Boraginaceae of the southern West Indies. *Arnold Arboretum J.* 30: 111-138. Apr. 1949. 451 Ar6J

41591 KOBUSKI, C. E. Studies in the Theaceae. XVIII. The West Indian species of *Laplacea*. *Arnold Arboretum J.* 30: 166-186. Apr. 1949. 451 Ar6J

41592 LILJESTRAND, E. Orchid hunting in west China. *Orchid Digest* 13: 292-294. Jan./Feb. 1949. 80 Or172

41593 LOURTEIG, A. *Lythraceae argentinae*. *Addenda II. Darwiniana* 8: 263-278. Ref. Oct. 1948. 450 D25

English summary.

41594 MELVILLE, R. The *Coritania* elm. *Linn. Soc. London, J. Bot.* 53, i. e. 55: 263-271. Mar. 10, 1949. 451 L64J

*Ulmus coritana*.

41595 MILLAN, R. Sinonimia de *Nierembergia graveolens* var. *grandifolia*. *Darwiniana* 8: 408-409. Oct. 1948. 450 D25

41596 MOLDENKE, H. N. The known geographic distribution of the members of the *Eriocaulaceae*. Supplement 4. *Phytologia* 3: 79-80. Mar. 1949. 450 P563

41597 MOLDENKE, H. N. The known geographic distribution of the members of the *Verbenaceae*, *Avicenniaceae*, *Stilbaceae*, and *Symphoremaceae*. Supplement 10. *Phytologia* 3: 71-79. Mar. 1949. 450 P563

41598 MONACHINO, J. V. *Laxoplumeria* and a note on botanical approach. *Phytologia* 3: 67-70. Mar. 1949. 450 P563

41599 MONACHINO, J. V. A new species of *Chromolucuma* from British Guiana. *Phytologia* 3: 57-58. Mar. 1949. 450 P563

*Chromolucuma baehniiana*.

41600 MONACHINO, J. V. A new species of *Cosmibuena* from Guatemala. *Phytologia* 3: 64-66. Mar. 1949. 450 P563

*Cosmibuena holdridgei*.

41601 PACLT, J. Nomenclature of the soybean. *Science* 109: 339. Apr. 1, 1949. 470 Sci2

41602 PERRY, L. M. *Plantae Papuanae Archboldiana*, XIX. *Arnold Arboretum J.* 30: 139-165. Apr. 1949. 451 Ar6J

Includes new spp. in: *Spiraeanthemum*, *Spiraeopsis*, *Schizomeria*, *Weinmannia*, and *Pullea*.

41603 PICHON, M. Classification des *Apocynaceae*. XX. Deux genres nouveaux voisins de *Vallaris* et de *Beaumontia*. *Paris Mus. d'Hist. Nat. (ser. 2)* 20: 381-382. June 1948. 410.9 P213

*Parabeaumontia*, *Muantum*.

41604 PICHON, M. Les *Monimiaceae*, famille hétérogène. *Paris Mus. d'Hist. Nat. (ser. 2)* 20: 383-384. June 1948. 410.9 P213

Includes *Amborellaceae* fam. nov.

41605 RECHINGER FIL., K. H. Beiträge zur kenntnis von *Rumex*. IX. *Candollea* 11: 229-241. 1947/48. 451 C16

41606 RECHINGER FIL., K. H. *Salix aellenii*, eine neue weiden-hybride aus dem Schweizer Jura. *Candollea* 11: 109-111. 1947/48. 451 C16

41607 RENZ, J. Beiträge zur kenntnis der süd- und zentralamerikanischen orchideen. I. *Orchidaceae-Cranichidinae*. *Candollea* 11: 243-276. Ref. 1947/48. 451 C16

41608 ROBERTY, G. Les représentants ouest-africains du genre *Acacia* dans les herbiers genevois. *Candollea* 11: 113-174. Ref. 1947/48. 451 C16

41609 ROBERTY, G. Les représentants ouest-africains du genre *Combretum* dans les herbiers genevois. *Candollea* 11: 39-108. 1947/48. 451 C16

41610 ROUSSEAU, L. Z. Les arbres du Québec: comment les identifier facilement. Ed. 2. Québec. *Forest Serv. B. (n. s.)* 4, 61 p. 1948. 99.9 Q34

41611 RUSH, H. *Cacti of California*. *Desert Plant Life* 21: 14-15. Jan. 1949. 450 D45

41612 SAINT PÉRIER, R. DE. Deux stations d'*Impatiens roylei* Walp. *Feuille des Nat. (n. s.)* 3: 81. June/July 1948. 410 F432

41613 SCHOTSMAN, H. D. Short note on the genus *Alisma* in the Netherlands. (In Dutch.) *Nederland. Kruidk. Arch.* 56: 199-203. Ref. Jan. 1949. 451 N28

41614 SCHULTES, R. E. The importance of plant classification in *Hevea*. *Econ. Bot.* 3: 84-88. Jan./Mar. 1949. 450 Ec7

41615 SCHWARZ, O. A new *Teucrium* (*T. sandrasicum*) from south-west Anatolia. *Roy. Hort. Soc. J.* 74: 115-116. Mar. 1949. 84 L84J



41616 SCURTI, J. Chiave analitica per il riconoscimento delle piante infestanti attraverso i semi [Key for the recognition of weeds by seeds]. Ann. della Sper. Agr. (n. s.) 2(3, sup.), 45 p. 1948. 16 An76  
English summary.

41617 SHERFF, E. E. A new variety of *Gnaphalium sandwicense* Gaud. in the Hawaiian Islands. Lloydia 11: 309. Dec. 1948. 442.8 L77

41618 SHINNERS, L. H. New names of Texas *Chamaesyces*. Field and Lab. 17: 69-70. Apr. 1949. 470 F46

41619 SHINNERS, L. H. Notes on Texas Compositae. II. Field and Lab. 17: 53-64. Apr. 1949. 470 F46

41620 SMITH, L. B. Notes on Ecuadorian Bromeliaceae. Lloydia 11: 303-308. Dec. 1948. 442.8 L77  
Includes new spp. in: *Mezobromelia*, *Pitcairnia*, *Puya*, and *Tillandsia*.

41621 SORIANO, A. El género *Benthamiella* (Solana-ceae). Darwiniana 8: 233-262. Ref. Oct. 1948. 450 D25

41622 SWAMY, G. L., and BAILEY, I. W. The morphology and relationships of *Cercidiphyllum*. Arnold Arboretum J. 30: 187-210. Ref. Apr. 1949. 451 Ar6J

41623 THOMSON, W. A. A natural hybrid between *Loranthus micranthus* and *Tupela antarctica*. Roy. Soc. New Zeal. Trans. & Proc. 77: 208. Feb. 1949. 514 W96

41624 TURMEL, J. M. Répartition géographique des *Eryngium*. I. Ancien monde. Paris Mus. d'Hist. Nat. (ser. 2) 20: 395-401. June 1948. 410.9 P213

41625 VERMEULEN, P. Varieties and forms of Dutch orchids. Nederland. Kruidk. Arch. 56: 204-242. Jan. 1949. 451 N28

Includes *Dactylorchis deweveri* n. sp.

#### Pteridophytes

41626 CROOKES, M. W. A revised and annotated list of New Zealand Filicinae. Roy. Soc. New Zeal. Trans. & Proc. 77: 209-225. Feb. 1949. 514 W96

41627 MCGREGOR, R. L., and HERR, W. H. *Selaginella rupestris* in Kansas. Amer. Fern J. 39: 16-17. Jan./Mar. 1949. 450 Am35

41628 RAPP, W. F., JR. The effect of mechanical injury on *Equisetum arvense*. Amer. Fern J. 39: 13-16. Jan./Mar. 1949. 450 Am35

Recognition of forms due to mechanical injury.

41629 SCAMMAN, E. Ferns and fern allies of the central Yukon Valley. Amer. Fern J. 39: 1-12. (To be cont.) Jan./Mar. 1949. 450 Am35

41630 WHERRY, E. T. Geographic notes on the bog fern [*Dryopteris simulata*]. Amer. Fern J. 39: 18-19. Jan./Mar. 1949. 450 Am35

#### Bryophytes

41631 ALLISON, K. W. Description of a new species with notes and localities of some Otago and southland mosses. Roy. Soc. New Zeal. Trans. & Proc. 77: 278-283. Feb. 1949. 514 W96

*Orthotrichum sainsburyi*.

41632 DOIGNON, P. Bryoflore d'un grès dans la Réserve biologique du Massif de Fontainebleau. Feuille des Nat. (n. s.) 3: 47. Mar./Apr. 1948. 410 F432

41633 DOIGNON, P. Esquisse bryofloristique de la Forêt de Sénart (Seine-et-Oise). Feuille des Nat. (n. s.) 3: 98-99. Nov./Dec. 1948. 410 F432

41634 HERZOG, T. Descriptions of new species of New Zealand Hepatics. III. Roy. Soc. New Zeal. Trans. & Proc. 77: 253-256. Feb. 1949. 514 W96

*Colura*, *Pycnolejeunea*, *Rectolejeunea* and *Strepsilejeunea*.

41635 JOVET-AST, S. À propos du *Lepidozia aubertii* Jovet-Ast (= *L. wallichii* Steph. ms.). Candollea 11: 31-35. 1947/48. 451 C16

41636 MARTIN, W. The Bryophytes of Stewart Island. I. Roy. Soc. New Zeal. Trans. & Proc. 77: 257-277. Ref. Feb. 1949. 514 W96

41637 MEIJER, W. *Sphagnum riparium* Ångstr., a new indigenous plant. (In Dutch.) Nederland. Kruidk. Arch. 56: 160-161. Jan. 1949. 451 N28

41638 WIJK, R. V. D. The genus *Sphagnum* in the Netherlands. (In Dutch.) Nederland. Kruidk. Arch. 56: 83-159. Jan. 1949. 451 N28

#### Algae

41639 DUSSART, B. Sur le plancton du Lac Léman. Arch. des Sci. 1: 417-428. Ref. 1948. 473 Ar2

41640 IRÉNÉE-MARIE, FRÈRE. Contribution a la connaissance des Desmidiées de la région des Trois-Rivières. IV. Nat. Canad. 76: 16-42. Jan./Feb. 1949. 410 N216

Includes new species in *Xanthidium*.

41641 THOMPSON, R. H. Immobile Dinophyceae. I. New records and a new species. Amer. J. Bot. 36: 301-308. Ref. Mar. 1949. 450 Am36

#### Fungi (Including Lichens)

41642 AHMAD, S. Fungi of Pakistan. I. Sydowia 2: 72-79. 1948. 450 Sy2

Includes new spp. in: *Valsella*, *Anthostomella*, *Phomatospora*, *Didymosphaeria*, *Ophiobolus*, *Phyllosticta*, *Phoma*, and *Macrophoma*.

41643 BAKER, R. E. D., and DALE, W. T. Fungi of Barbados and the Windward Islands. Commonwealth Mycol. Inst. Mycol. Papers 25, 26 p. Dec. 29, 1948. 451 Im73M

41644 BONDARTSEV, A. S. On the spread of wood destroying fungi in Leningrad during recent years (1940-1946). (In Russian.) Priroda 37(11): 37-42. Nov. 1948. 410 P933

Identification.

41645 BREMER, H., and PETRAK, F. Neue Mikro-myzeten aus der Türkei. Sydowia 2: 311-316. 1948. 450 Sy2

New spp. in: *Asteromella*, *Cercospora*, *Cercoseptoria*, and *Ramularia*.

41646 GUYOT, A. L., MASSENOT, M., and MONTÉGUT, J. Études expérimentales sur les urédinées hétéroïques. Grignon. Ecole Natl. d'Agr. Ann. (ser. 3) (1947/48) 6: 119-139. 1948. 105.3 G872A

41647 HANSFORD, C. G., and DEIGHTON, F. C. West African Meliolinae. II. Meliolinae collected by F. C. Deighton. Commonwealth Mycol. Inst. Mycol. Papers 23, 79 p. Mar. 24, 1948. 451 Im73M

New spp. in *Irenina*, *Meliola*, *Irenopsis*, and *Amazonia*.

41648 HENDRICKX, F. L. Sylloge fungorum congensium. Inst. Natl. pour l'Étude Agron. du Congo Belge. P. Sér. Sci. 35, 216 p. Ref. 1948. 24 In7

41649 LEPAGE, E. Les lichens, les mousses et les hépatiques du Québec. Nat. Canad. 76: 45-88. (Cont.) Ref. Jan./Feb. 1949. 410 N216

41650 LITVINOV, M. A., and STRYGIN, N. N. Methods of microscopic investigation of *Penicillium*. (In Russian.) Priroda 37(9): 60-62. Ref. Sept. 1948. 410 P933

41651 MARMÓ, J. C. On a *Penicillium* growing on copper sulfate solutions. (In Portuguese.) Rev. de Agr. [Piracicaba] 23: 379-386. Nov./Dec. 1948. 9.2 R324

41652 MIDDELHOEK, A. Laboulbeniaceae in the Netherlands. III. (In Dutch.) Nederland. Kruidk. Arch. 56: 249-260. Jan. 1949. 451 N28

Includes new spp. in: *Cantharomyces* and *Barbatiella* n. g.

41653 PETRAK, F. *Antimanopsis*, n. gen., eine neue melanconioide gattung aus Ekuador. Sydowia 2: 46-48. 1948. 450 Sy2

41654 PETRAK, F. *Asteroscutula*, eine neue gattung der hemisphaerialen Sphaeropsiden. Sydowia 2: 59-62. 1948. 450 Sy2

Includes *Echidnodes sydowii* n. sp.

41655 PETRAK, F. *Chaetomelanops* n. gen., eine neue gattung der Dothideales. Sydowia 2: 68-71. 1948. 450 Sy2

41656 PETRAK, F. Ein kleiner beitrag zur pilzflora der Kanarischen Inseln. Sydowia 2: 231-238. 1948. 450 Sy2

New spp. in: *Metasphaeria*, *Phyllachora*, *Diplodina*, *Camarosporium*, and *Septoria*.

41657 PETRAK, F. Eine neue art der gattung Davincia [D. sydowiana] aus Ekuador. Sydowia 2: 43-45. 1948. 450 Sy2

41658 PETRAK, F. Eine neue *Volutella*-art aus Nieder-Österreich. Sydowia 2: 308-310. 1948. 450 Sy2

*V. lohwaagii*.

41659 PETRAK, F. *Phaeodothiora* n. gen., eine neue Dothiorazeen-gattung aus China. Sydowia 2: 80-82. 1948. 450 Sy2



- 41660 PETRAK, F. Pilze aus Ekuador. Sydowia 2: 317-386. 1948. 450 Sy2  
Includes new spp. in: Acanthostigma, Asterina, Calonectria, Corynelia, Dimeriella, Dimerium, Gibbera, Hypocrella, Leptosphaeria, Meliola, Mycosphaerella, Nectria, Nematostigma, Phyllachora, Sphaerulina, Coniothyrium, Phomopsis, Phragmopeltis, Septoria, Torsellia, Cercospora, Cladosporium, and Tubercularia.
- 41661 PETRAK, F. Thrinacospora Petr. n. gen., eine neue melanconioide Sphaeropsideen-gattung aus Ekuador. Sydowia 2: 49-51. 1948. 450 Sy2  
Includes Thrinacosporaceae n. fam.
- 41662 PETRAK, F. Über die gattung Robledia Chard. Sydowia 2: 55-58. 1948. 450 Sy2  
Includes Hendersonia roblediae n. sp.
- 41663 PETRAK, F. Xenochora n. gen., eine neue gattung der phaeosporen Sphaeropsideen. Sydowia 2: 52-54. 1948. 450 Sy2
- 41664 PETRAK, F. Zwei neue, auf Cavendishia wachsende Askomyzeten aus Ekuador. Sydowia 2: 63-67. 1948. 450 Sy2  
Ophiodothella sydowii and Coccomyces consociatus.
- 41665 PETRAK, F. Zwei neue Sphaeropsideen aus der Schweiz. Sydowia 2: 239-243. 1948. 450 Sy2  
Plenodomus helveticus and Septoria blumeri.
- 41666 RAMAKRISHNAN, T. S., and RAMAKRISHNAN, K. Exobasidium from south India. Indian Acad. Sci. Proc. Sect. B 29: 5-12. Ref. Jan. 1949. 513 In25B
- 41667 RASÁNEN, V. Flora liquenologica de Mendoza (Argentina). III. Soc. Cient. Argentina. An. 146: 379-390. Dec. 1948. 516 Sol  
English summary.
- 41668 RONDON, Y. Premières observations sur les lichens corticoles du pin silvestre de la montagne de Lure. Feuille des Nat. (n. s.) 3: 67-70. June/July 1948. 410 F432
- 41669 SAVULESCU, T. Les espèces de Peronospora Corda de Roumanie. Sydowia 2: 255-307. Ref. 1948. 450 Sy2
- 41670 SINGER, R. Diagnoses fungorum novorum agaricalium. Sydowia 2: 26-42. 1948. 450 Sy2  
Includes new spp. in: Lepista, Collybia, Tricholoma, Callistosporium, Marasmiellus, Lactocollybia, Marasmius, Pyrrhoglossum, Clitopilus, Tylopilus, Russula, and Lactarius.
- 41671 WENZL, H. Zur systematik der europäischen obstbaum-sclerotinien. Sydowia 2: 244-254. Ref. 1948. 450 Sy2

## PATHOLOGY

## General

- 41672 ANDRIBET, P. Plantations et court-noué. Agr. Charentais 4(2): 2. Feb. 1949. 14 Ag825  
Grapes.
- 41673 ASHTON, C. D. Bridging wounds on mice-injured [apple] trees. Utah Farmer 68(14): 16. Mar. 12, 1949. 6 D45
- 41674 BACHMANN, F. Zum thema winterspritzung. Schweiz. Z. f. Obst u. Weinbau 58: 78-79. Feb. 12, 1949. 80 Sch9
- 41675 BANGHAM, H. C. Don't let yew trouble, trouble you. Prof. Gard. 1: 41-42. Feb. 1949. 80 P945
- 41676 BEGUÉ, H. La lutte chimique contre les ennemis des cultures. Ann. de la Mach. Agr. 3: 159-166. 1948. 58.8 An7
- 41677 BEHR, L. L. Krankheiten und schädlinge der gurke sowie deren bekämpfung. Ceres [Hamburg] 1948 (7/8): 17-20. 80 C332
- 41678 BERTELLI, J. C. Histopatología de las lesiones gomosas del duraznero (Prunus persica. Sieb. et Zucc.). Asoc. de Ingen. Agron. Rev. 20(82): 9-34. Sept. 1948. 280.9.A573  
English summary.
- 41679 BJØRNSTAD, A. The more important potato diseases, their effect on yield and their control. (In Norwegian.) Tidsskr. for det Norske Landbr. 55: 279-292. Nov./Dec. 1948. 11 T433
- 41680 BLACK, W. Potato breeding for disease resistance. Brit. Agr. J. 1: 134-139. Ref. Autumn 1948. 10 B776
- 41681 BLANCO GONZALEZ, T. Enemigos de la alfalfa y medios de combatirlos. Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad. 6(62): 14-17. Nov. 1948. 15 B14
- 41682 BONDE, R. Spraying potatoes for the control of diseases and insects in Maine. (Abs.) Amer. Potato J. 26: 90. Mar. 1949. 75.8 P842
- 41683 BONNEMAISON, L. Traitements généraux de printemps et d'été des arbres fruitiers à pépins. Agr. Prat. 113: 65-67. Feb. 1949. 14 J82
- 41684 BRANZANTI, E. C. Winter treatment of plants. (In Italian.) Romagna Agr. e Zootec. 34, i.e. 33: 2. Jan. 1949. 16 R66
- 41685 BRYNER, W., and FRITZSCHE, R. Wundbehandlung im obstbau. Schweiz. Z. f. Obst u. Weinbau 58: 88-92. Feb. 26, 1949. 80 Sch9
- 41686 BURKHOLDER, C. L. A general purpose fruit spray. Fruit Varieties & Hort. Digest 4: 23-24. Spring 1949. 80 F9464
- 41687 CHERNYSHEV, V. I. Russian olives [Eleagnus angustifolia] eaten up by forest animals. (In Russian.) Priroda 37(9): 69. Sept. 1948. 410 P933
- 41688 CIFERRI, R. Estudios sobre cacao. I-II. Colombia. U. Nac. Facul. Nac. de Agron. Rev. 8: 395-413. Dec. 1948. 9.4 C717  
Physiological wilt and Phytophthora palmivora in Venezuela.
- 41689 CONTESSE, J. Traitement des arbres fruitiers pour un cycle complet de végétation. Arbres et Fruits 36: 20-28. Feb. 1949. 80 Ar1
- 41690 CUMMINGS, M. B. Troubles with peach trees. Amer. Nurseryman 89(8): 9-10. Apr. 15, 1949. 80 Am371
- 41691 DALMASSO, G. New research and new hypotheses on court-noué of grapes. (In Italian.) Coltivatore e Gior. Vinic. Ital. 94: 208-210. Nov. 30, 1948. 16 C72
- 41692 DEZEEUW, D. J. Efficient control of cucumber diseases. (Abs.) Canner 108(12): 26. Mar. 19, 1949. 286.83 C16
- 41693 DOROZHKIN, N. A. Types of potato canker infection. (In Russian.) Sad i Ogorod 1948(7): 69-71. July 1948. 87 Sa1
- 41694 DORST, D. L'inspection de semences aux Pays-Bas. Courrier Hort. 11: 30-31. Jan. 1949. 80 C834
- 41695 DOSSE, G. Gesunde kohlsetzlinge durch schädlingbekämpfung. Süddeut. Erwerbsgärt. 2: 10-11. Feb. 1948. 80 Su2
- 41696 EFIMOV, A. L. Spravochnik po primeneniiu fadov dlia bor'by s vreditel'ami i bolezniami sel'skokhoz'iaistvennykh rastenii [Handbook on the use of poisons for the control of diseases and pests of crop plants]. Ed. 3, rev. and enl. Moskva, Sel'khozgiz, 1948. 270 p. 464.4 Ef6
- 41697 ELIAS, A. Sanidad de los frutales. Campo y Suelo Argentino 32(387): 63. Jan. 1949. 9 C15
- 41698 ERNOULD, L. Les ennemis et maladies de la betterave en Belgique, en 1948. Inst. Belge pour l'Amélior. de la Betterave. P. 16: 313-319. Nov./Dec. 1948. 66.9 In7  
English and Flemish summaries.
- 41699 FISCHER, H. Die gesetzlichen unterlagen für den pflanzenschutz im obstbau. Schweiz. Z. f. Obst u. Weinbau 58: 40-43. Jan. 15, 1949. 80 Sch9
- 41700 GIGANTE, R. Bacterial and cryptogamic diseases of tobacco seedlings. (In Italian.) Tabacco 53: 3-29. Ref. Jan. 1949. 69.8 T115
- 41701 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Pests and diseases in the vegetable garden. Ed. 2, rev. Gt. Brit. Min. Agr. and Fisheries. Growmore B. 2, 20 p. 1948. 10 G79Gro
- 41702 HAGIYA, K. The damages induced by the late frost at blossoming time. (In Japanese.) Hort. Assoc. Japan. J. 17: 115-120. Mar. 1948. 87 H78
- 41703 HANF, M. Über den wert der winterspritzung. Gartenjahr 4: 2-4. Jan. 1949. 80 G1932
- 41704 HASKELL, R. J. Big boom in seed treating. South. Seedsman 12(4): 14, 54, 59. Apr. 1949. 61.8 S88
- 41705 HORSFALL, F., JR. Efficient methods for orchard mouse control. Va. Fruit 37(3): 20-26. Mar. 1949. 81 V81B
- 41706 HOUGAS, R. W., and RIEMAN, G. H. Unusual variegations in the Sebago potato. II. Pathological aspects (Abs.) Amer. Potato J. 26: 94. Mar. 1949. 75.8 P842
- 41707 HOUGH, W. S. Effect of dormant sprays on apple trees. Va. Agr. Expt. Sta. B. 423, 22 p. Ref. Feb. 1949. 100 V81S



- 41708 HULA. Auswinterungsschäden kann man verhindern, wenn man ihre Ursachen kennt. Pflug 2: 25. Feb. 1949. 19 P48  
Grain in Austria.
- 41709 JOHNSTON, J. C. Citrus tree damage in 1949. Calif. Citrog. 34: 266-267. Apr. 1949. 80 C125
- 41710 JUDKINS, W. P. Winter injury to grape vines. Farm & Home Res. [Ohio Sta.] 34(256): 18-20. Jan./Feb. 1949. 100 Oh3S
- 41711 KERNKAMP, M. F. Mechanical injury to soybean seed. Minn. Seed Grower 22: 5-6. Feb. 1949. 61.8 M66
- 41712 KHIZHNIK, P. A., IAKOVLEVA, V. I., and GEGERMAN, E. A. Development of potato canker infection under natural conditions. (In Russian.) Sad i Ogorod 1948(7): 66-69. July 1948. 87 Sal
- 41713 LAURENT, R. La lutte contre les moineaux. Inform. Maroc. 416: 1, 1. Jan. 1, 1949. 281.8 In3  
Pests of crops and orchards.
- 41714 LAURIE, A. When to call the tree doctor. Home Gard. 13(4): 43-46. Apr. 1949. 80 H756
- 41715 LUK'IANOV, M. I. Prevention of the spread of potato canker. (In Russian.) Sad i Ogorod 1948(9): 12-13. Sept. 1948. 87 Sal
- 41716 LÜSTNER, G., and MITTMANN, G. Krankheiten und feinde der gemüsepflanzen; ein wegweiser für ihre erkenntnis und bekämpfung. Ed. 4, rev. Stuttgart, Ulmer, 1948. 131 p. 464.04 L972
- 41717 MCALPIN, D. M. Winter drop of grapefruit; reduction by spraying. Victoria. Dept. Agr. 47: 53-56. Feb. 1949. 23 V66J
- 41718 MCKENNA, J. P. Experiences with aerial application of insecticides and fungicides. (Abs.) Amer. Potato J. 26: 96, 98. Mar. 1949. 75.8 P842
- 41719 MACLEAN, N. A. Fire and rot of bulbs in Washington. (Abs.) Northwest Sci. 22: 17. Feb. 1948. 470 N81
- 41720 MARCHIONATTO, J. B. Las enfermedades de las plantas; sus causas y remedios. Soc. Cient. Argentina. An. 146: 417-428. Dec. 1948. 516 Sol
- 41721 MELIS, A. Winter treatment of fruit trees. II. (In Italian.) Agr. Tosc. 4: 49-51. Feb. 1949. 16 Ag8263
- 41722 MILBRATH, D. G. Certain diseases of plants. Calif. Dept. Agr. B. 38: 5. Jan./Mar. 1949. 2 C12M
- 41723 MITCHELL, A. E. Concentrate sprays for the grower. Canad. Grower 72(4): 15-16. Apr. 11, 1949. 80 C16
- 41724 MOISEEV, N. N. Causes for the damage to fruit crops in the winter of 1944/45. (In Russian.) Sad i Ogorod 1948(9): 34-36. Sept. 1948. 87 Sal
- 41725 MONCEAU, G. Quelques difficultés dans la pratique des traitements. Réveil Agr. 58: 67. Mar. 1, 1949. 14 R322  
Spraying fruit.
- 41726 MÜLLER, F. P. Beobachtungen an stauden und knollen. Kleingärt. u. Siedler 2: 84-85. Aug. 1948. 80 K67  
Potato diseases.
- 41727 MULLIGAN, B. O. Preliminary notes on frost damage in the Arboretum. Arboretum B. 12: 36, 44. Spring 1949. 451 Ar1  
Washington University Arboretum.
- 41728 MUNCIE, J. H., and MOROFSKY, W. F. Field tests of fungicide-insecticide combinations in Michigan for 1948. (Abs.) Amer. Potato J. 26: 98, 100. Mar. 1949. 75.8 P842
- 41729 NELSON, C. Deer or cherries. Mich. Farmer 211: 230, 237, 251. Mar. 19, 1949. 6 M58  
Deer damage to cherry trees in Michigan.
- 41730 NETTLES, W. C., and SCHILLETTER, A. E. Sweet potato seed treatments. Clemson Agr. Col. S. C. Ext. Inform. Card 74, 2 p. Feb. 1949. 275.29 So81
- 41731 OSA, P. Gnawing injuries to fruit trees. (In Norwegian.) Norsk Hagetidend 65: 48-49. Mar. 1/15, 1949. 80 N81
- 41732 PEROTTI, R. Biologia vegetale applicata all'agricoltura [Vegetable biology applied to agriculture]. I, IVA. Ed. 2. Torino, Rosenberg & Sellier, 1948-49. 895 p., 394 p. 463 P42  
I, General non-parasitic diseases; IVA, Soil bacteriology.
- 41733 PERROT, É., ed. Manuel de phytopharmacie. Paris, Masson, 1948. v. 1, 618 p. 464.4 P42  
Includes Textes Officiels Concernant la Legislation Phytopharmaceutique et Commentaires Explicatifs, by R. Fabre.
- 41734 PIRNIE, M. D. A test of hunting as cottontail control. Mich. Agr. Expt. Sta. Q. B. 31: 304-308. Feb. 1949. 100 M58S  
Rabbits as plant pests.
- 41735 PORTEOUS, H. Treating the bite frost put on citrus trees. Calif. Farmer, North. Ed. 190: 288. Mar. 26, 1949. 6 C126
- 41736 ROBIN, F. La pratique des traitements antiparasitaires. Ann. de la Mach. Agr. 3: 15-17. 1948. 58.8 An7
- 41737 SCHEFFER, T. C., EMGLERTH, G. H., and DUNCAN, C. G. Decay resistance of seven native oaks. J. Agr. Res. 78: 129-152. Ref. Mar. 1/15, 1949. 1 Ag84J
- 41738 SCHOEL. Pflanzenbeschau, ein- und ausfuhrkontrolle. Gartenjahr 4: 6. Jan. 1949. 80 G1932
- 41739 SHARVELLE, E., and BURKHOLDER, C. L. The queen of fruits and the three knaves. Amer. Fruit Grower 69(3): 16-17, 36. Mar. 1949. 80 G85  
Peaches and brown rot, Conotrachelus nenuphar and Grapholitha molesta.
- 41740 SPRAGUE, R. Root rots of cereals are increasingly important problems in the Island Empire. (Abs.) Northwest Sci. 22: 13. Feb. 1948. 470 N81
- 41741 STAHL, N. On the spraying of potatoes under irrigation. (In Hebrew.) Hassadeh 29: 70-71. Dec. 1948. 26 H27
- 41742 SWINGLE, J. W. Why protect wounds in trees. Green Thumb 6(3): 24-25. Mar. 1949. 80 G82
- 41743 THOMPSON, W. L. The relationship of timing post-bloom spray to certain fruit blemishes on oranges. Citrus Indus. 30(4): 5-8, 18. Apr. 1949. 80 C49
- 41744 TROUVELOT, B. Répertoires analytiques annuels des animaux nuisibles aux cultures en France. Rev. Tech. de la Protect. des Vég. 1: 271-272. 1948. 464.9 F84R
- 41745 TURRELL, F. M., and CHERVENAK, M. B. More sulfur use; use radioactive material in studies of sulfur burn in California citrus. Citrus Leaves 29(4): 8-9, 25. Apr. 1949. 80 C492
- 41746 VALLEAU, W. D., JOHNSON, E. M., and DIACHUN, S. Tobacco diseases. Ky. Agr. Expt. Sta. B. 437, rev., 59 p. July 1948. 100 K41
- 41747 VASUDEVA, R. S. Soil-borne plant diseases and their control. Sci. & Cult. 14(8, sup.): 1. Feb. 1949. 475 Sci24
- 41748 VERSUCHS- und untersuchungstätigkeit im jahre 1947 der Bundesanstalt für pflanzenschutz in Wien. Bodenkultur 2: 108-124. 1948. 19 B635
- 41749 VEZIN, C. Tendances actuelles dans l'application des traitements chimiques sur les cultures. Ann. de la Mach. Agr. 3: 9-11. 1948. 58.8 An7
- 41750 WENZL, H. Die krankheitsabwehr der pflanze. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 111-122. Ref. 1948. 105.9 V67J
- 41751 WESTCOTT, C. Pests and diseases of Azaleas and Rhododendrons. Plants & Gard. 5: 60-63. Spring 1949. 450 P694
- 41752 WHITCOMB, W. D. Garden medicine chest. Horticulture 27: 134. Apr. 1949. 80 H787  
Fungicides and insecticides.
- 41753 WIEHE, P. O. The plant diseases and fungi recorded from Mauritius. Commonwealth Mycol. Inst. Mycol. Papers 24, 39 p. Ref. Dec. 8, 1948. 451 Im73M
- 41754 WILHELM, F. Spargelschädlinge. Gartenbauwirtschaft [Wien] 1948(11): 9-10. Nov. 15, 1948. 80 G1936
- 41755 WRIGHT, J. E. Colección de cultivos puros del laboratorio central de fitopatología. Argentina. Inst. de Sanid. Veg. [P.] Ser. B 4(14), 48 p. 1948. 464.9 Ar323P
- 41756 YOUNG, F. D. The freezes of January, 1949. Calif. Citrog. 34: 234-235. Apr. 1949. 80 C125
- 41757 ZÄCH, C. Ueber chemisch-physikalische eigenschaften von netzschwefelpräparaten. Schweiz. Z. f. Obst u. Weinbau 58: 25-27. Jan. 1, 1949. 80 Sch9
- 41758 ZOBRIST, L. Auch Dahlien verlangen nach methodischem pflanzenschutz. Gartenbauwirtschaft [Wien] 1948(11): 8-9. Nov. 15, 1948. 80 G1936

## Diseases Caused by Fungi

- 41759 ABIUSSO, N. G. Probable acción fungicida de la fenotiazina y algunos de sus derivados de oxidación. Argentina. Dir. Gen. de Labs. e Invest. Rev. de Invest. Agr. 2: 117-138. Ref. July 1948. 9 R329



- 41760 AMERICAN PHYTOPATHOLOGICAL SOCIETY. FUNGICIDE COMMITTEE. Nation-wide results with fungicides in 1948. Fourth annual report. *Plant Dis. Rptr. Sup.* 181: 17-87. Mar. 15, 1949. 1.9 P69P
- 41761 BALDASSINI, C. An alteration of chestnut shoots due to an *Endothia* species. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2: 677-686. Ref. 1948. 16 An76  
English summary.
- 41762 BERAN, F. Neue wege im pflanzenschutz. 2. Fungizide. *Bodenkultur* 2: 43-48. Ref. 1948. 19 B635
- 41763 BIRAGHI, A. Inoculations on chestnut-trees with *Endothia* sp. isolated in Biscay. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2: 687-691. 1948. 16 An76  
English summary.
- 41764 BLUMER, S., and LÜTHI, E. Der apfelmehltau und seine bekämpfung. *Schweiz. Z. f. Obst u. Weinbau* 58: 23-25. Jan. 1, 1949. 80 Sch9  
*Podosphaera leucotricha*.
- 41765 BLUMER, S., and BIERI, F. Schorfbekämpfungsversuche 1948. *Schweiz. Z. f. Obst u. Weinbau* 58: 16-23. Jan. 1, 1949. 80 Sch9
- 41766 BUCHANAN, T. S. *Poria weirii*: its occurrence and behavior on species other than cedars. *North-west Sci.* 22: 7-12. Ref. Feb. 1948. 470 N81
- 41767 BURRELL, A. B. Helicopter dusting. *Amer. Fruit Grower* 69(4): 16. Apr. 1949. 80 G85  
For scab of apple.
- 41768 CALDWELL, R. M. Sources of resistance to leaf and stem rust of wheat. *East. Soft Wheat Impr. Conf.* (1947) 10: 2-5. 1948. 59.9 Ea7
- 41769 CALLBECK, L. C. Results of spraying and dusting potatoes for late blight. (Abs.) *Amer. Potato J.* 26: 91-92. Mar. 1949. 75.8 P842
- 41770 CAMICI, L. *Rhizoctonia solani* Kühn and correlation among parasitic and non-parasitic factors in the carnation withering of the Riviera Ligure. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2: 653-669. Ref. 1948. 16 An76  
English summary.
- 41771 CHENOKOV, N. S., and MIKHAILOVA, V. N. Withering of potato plantings and control measures. (In Russian.) *Sad i Ogorod* 1948(7): 72-74. July 1948. 87 Sa1  
Caused by *Fusarium*.
- 41772 CHIU, W. F., and WALKER, J. C. Morphology and variability of the cucurbit black rot fungus [*Mycosphaerella cucumis*]. *J. Agr. Res.* 78: 81-102. Ref. Mar. 1/15, 1949. 1 Ag84J
- 41773 CHRISTIAN, R. L. Missouri Queen water-melon wilt resistant. *Mkt. Growers J.* 78(2): 8. Feb. 1949. 6 M34
- 41774 COUTIERE, G. La "rouille" du céleri [Septoria apii graveolentis]. *Rev. Hort. [Paris]* 120: 273-274. Aug./Sept. 1948. 80 R32
- 41775 DONÁ DALLE ROSE, A. Disinfestation and germination of wheat. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2: 693-700. 1948. 16 An76  
English summary.
- 41776 DUBOIS, R. Aurons-nous du cuivre pour lutter contre le mildiou? Economisons les traitements et surveillons les premières taches. *Moisson* 5(179): 3. Feb. 18, 1949. 14 M72
- 41777 DU TOIT, J. J. Powdery mildew or "white rust" on cucurbits. *Farming So. Africa* 23: 815-816. Dec. 1948. 24 So842
- 41778 ELLIS, D. E., and GARRISS, H. R. Control tomato late blight. *N. C. Agr. Col. Ext. C.* 331, 8 p. Jan. 1949. 275.29 N811
- 41779 ESCALANTE M., J. M. La gomosis en los citrus, del Departamento de Santa Cruz. *Campo [La Paz]* 2(20): 29-31. Dec. 1948. 9.1 C15
- 41780 GAILLOU, G. Il faut lutter de bonne heure contre l'oidium. *Terre d'Oc* 31: 78. Feb. 1949. 14 Ar5  
Powdery mildew of grapes.
- 41781 GASKILL, A. Blister rust. *J. Forestry* 47: 310-311. Apr. 1949. 99.8 F768  
With a note by L. M. Hutchins.
- 41782 GASKIN, A. G. Wheat and rust disease. *Farming Gloucestershire* 8: 31, 33. 1949. 10 F2291
- 41783 GOLDSWORTHY, M. C. Development and progress in new fungicides. *Agr. Chem.* 4(3): 33-35. Ref. Mar. 1949. 381 Ag8
- 41784 GROVES, A. B. Number one disease problems in apple orchards. *Va. Fruit* 37(4): 24-27. Apr. 1949. 81 V81B  
Scab and rust.
- 41785 GUALBA, C. Los fungicidas utilizados en la agricultura. *Cult. Mod.* 30: 124. Apr. 1947. 15 C89
- 41786 GUERRA, L. DEL. Parasitic diseases and the chestnuts of the Piedmont and Liguria. (In Italian.) *Ital. Forest. e Mont.* 3: 352-375. Nov./Dec. 1948. 99.8 It12
- 41787 GUYOT, A. L., MASSENOT, M., SACCAS, A. Sept ans d'expérimentation (1941-1947) sur les rouilles des céréales. Grignon. *École Natl. d'Agr. Ann. (ser. 3)* (1947/48) 6: 75-117. 1948. 105.3 G872A
- 41788 HOPKINS, J. C. F. The [Fourth] Commonwealth Mycological Conference. *Rhodesia Agr. J.* 45: 426-429. Sept./Oct. 1948. 24 R34
- 41789 HURT, R. H. Apple scab and its control. *Va. Fruit* 37(3): 30-32. Mar. 1949. 81 V81B
- 41790 HURT, R. H. Number one peach disease in Virginia. *Va. Fruit* 37(4): 27-29. Apr. 1949. 81 V81B  
Chiefly brown rot.
- 41791 KAZENAS, L. D. Measures for the control of *Sphaeropsis malorum* on fruit trees. (In Russian.) *Sad i Ogorod* 1948(7): 33-35. July 1948. 87 Sa1  
Apples.
- 41792 KIELY, T. B. Black spot of citrus. *Agr. Gaz. N. S. Wales* 60: 17-20. Jan. 1949. 23 N472
- 41793 LABAT, C. Traitement de l'oidium avec les bouillies au soufre, rendu mouillable par addition d'alcools terpeniques. *Inform. Maroc.* 414: 3. Dec. 18, 1948. 281.8 In3  
On grapes.
- 41794 LAFON, J. Compte rendu d'essais contre le mildiou. *Vrai Cognac (n. s.)* 11: 129-130. Mar. 1949. 14 P29  
On grapes.
- 41795 LECONTE, P. Maladie des solanées et traitements cupriques. *Inform. Maroc.* 413: 1, 4. Dec. 11, 1948. 281.8 In3
- 41796 LITZENBERGER, S. C. Nature of susceptibility to *Helminthosporium victoriae* and resistance to *Puccinia coronata* in Victoria oats. *Phytopathology* 39: 300-318. Apr. 1949. 464.8 P56
- 41797 MCCALLUM, S. E. A. Fungicides. III. Mercury and organic. *Westralian Farmers' Co-op Gaz.* 15 (365): 45, 47-48. Jan. 1949. 280.28 W522
- 41798 MCCLELLAN, W. D., BAKER, K. F., and GOULD, C. J. Occurrence of the *Botrytis* disease of *Gladiolus* in the United States in relation to temperature and humidity. *Phytopathology* 39: 260-271. Ref. Apr. 1949. 464.8 P56
- 41799 MARSHALL, C. C. Research on *Botrytis corm rot*. *Canad. Florist* 44(4): 6-7. Feb. 15, 1949. 80 C163  
On *Gladiolus*.
- 41800 MILLER, H. J. Modifications of the slide-germination method of evaluating fungicides including the use of *Venturia inaequalis* and *Phytophthora infestans*. *Phytopathology* 39: 245-259. Ref. Apr. 1949. 464.8 P56
- 41801 MILLER, P. R. Downy mildew of oats in new areas. *Agr. Chem.* 4(3): 55, 57. Mar. 1949. 381 Ag8
- 41802 MILLIKAN, C. R. Lower leaf scorch of flax. *Victoria. Dept. Agr. J.* 47: 37-41. (Concl.) Ref. Jan. 1949. 23 V66J
- 41803 MILLS, W. R., and PETERSON, L. C. Potato blight investigations. (Abs.) *Amer. Potato J.* 26: 98. Mar. 1949. 75.8 P842
- 41804 MÜLLER, K. O., and BEHR, L. 'Mechanism' of *Phytophthora*-resistance of potatoes. *Nature [London]* 163: 498-499. Mar. 26, 1949. 472 N21
- 41805 MUNCIE, J. H. Reaction of potato varieties to infection by *Fusarium eumartii* Carpenter. *Mich. Agr. Expt. Sta. Q. B.* 31: 270-274. Feb. 1949. 100 M58S
- 41806 NALDI, L. Cause of the development of a black crust on olive leaves during the last season. (In Italian.) *Olivicoltura* 4: 14-16. Jan. 1949. 80 OL42  
Various fungi isolated.
- 41807 NATTRASS, R. M. A *Botrytis* disease of *Eucalyptus* in Kenya. *Empire Forestry Rev.* 28: 60-61. Mar. 1949. 99.8 Em72  
B. cinerea.
- 41808 PASQUALE, D. R. "Marchitez" de la papa; probable fusariosis en el sudeste de la Pcia. de Buenos Aires. *IDIA; Inform. de Invest. Agr.* 2(15): 13. Mar. 1949. 9 Id3



41809 PÉREZ Y PÉREZ, F. El tizón del trigo. Mex. Dir. de Econ. Rur. B. Mens. 267: 634-636. Aug. 1948. 254.5 Ag83

41810 PFEIFER, R. P. Differential reactions of inbred lines and hybrids of corn to certain seed disinfectants. Urbana, Ill., 1949. 4 p. 59.22 P472  
Abstract of thesis—University of Illinois.

41811 PITCHER, R. S., and WEBB, P. C. R. A fungus disease of raspberries induced by insect [Thomasiniana theobaldi] attack. Nature [London] 163: 574-575. Apr. 1949. 472 N21

41812 POMERLEAU, R. Les caries du sapin. Québec. Forest Serv. B. (n. s.) 12, 8 p. 1948. 99.9 Q34

41813 QUACKENBUSH, A. This spring help to fight Dutch elm disease. Flower Grower 36: 354, 378-380. Apr. 1949. 80 M72

41814 QUINBY, J. R., and KAPER, R. E. The effect of mildew disease on grain and forage yields of sorghum. Agron. J. 41: 118-122. Ref. Mar. 1949. 4 Am34P

41815 RAUCOURT, M. Les traitements cupriques contre les mildious. Rev. Hort. [Paris] 120: 225-226. July 1948. 80 R32

Downy mildew of grapes.

41816 ROBIN, F. Un produit méconnu: la bouillie sulfocalcique. Rev. Hort. [Paris] 120: 253-255. Aug. 1948. 80 R32

41817 ROY, Z. La maladie hollandaise de l'orme. Rev. d'Oka 22: 235-236. Nov./Dec. 1948. 7 Ok1

41818 RYPÁČEK, V. Studie o vlivu fyzikálního stavu dřeva na růst dřevokazných hub. I. Růst houby Ceratostomella pilifera Fries v bělí borovice (Pinus silvestris). Studies about the influence of the physical state of wood on the growth of wood-destroying fungi. I. The growth of Ceratostomella pilifera Fries in the sapwood of (Pinus silvestris). Masarykovy U. Přirod. Fakult. Spisy 294, 38 p. Ref. 1948. 510 B832  
English summary.

41819 SAINT-QUENTIN, M. Contre la carie et le charbon des céréales. Rustica 22: 252. Mar. 27, 1949. 14 R92

41820 SARAVIA IGLESIAS, G. Recrudece la antracnosis de la vid, terrible enfermedad de los viñedos. Agrario 14(405): 11. Jan. 1949: 9.3 Ag85

41821 SHARVELLE, E. G., and SKRDLA, W. H. New fungicides tested at Purdue. Midwest Turf 3: 1, 4. Jan. 1949. 60.18 M58

41822 SHAW, C. G. The genus Stereum (Thelephoraceae) in culture. (Abs.) Northwest Sci. 22: 16-17. Feb. 1948. 470 N81

41823 SITTIG, O. Zur frage des hallimaschbefalls. Allg. Forstz. 3: 257-258. Dec. 15, 1948. 99.8 AL52

41824 SPICER, O. W. White root rot of pines. Prof. Gard. 1: 9-10. Jan. 1949. 80 P945  
Corticium galactinum.

41825 STODDARD, M., and RICH, S. Should we do less spraying? Rural New-Yorker 99: 166-167. Mar. 5, 1949. 6 R88  
Fungicides for fruit-trees.

41826 SUSHITSKIĬ, L. A. Chemical measures for the control of canker on fruit crops. (In Russian.) Sad i Ogorod 1948(9): 51-52. Sept. 1948. 87 Sal  
Oleate of copper and coal-tar oil used as fungicides.

41827 TAYLOR, J. W., RODENHISER, H. A., and BAYLES, B. B. Physiologic races of Erysiphe graminis tritici in the southeastern United States. Agron. J. 41: 134-135. Mar. 1949. 4 Am34P

41828 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Black stem rust quarantine and regulations. U. S. Bur. Ent. and Plant Quar. B.E.P.Q.-Q. 38, 6 p. Mar. 2, 1949. 1 F31

41829 WALLIN, J. R. A new method of inoculating the Maydeae with smut fungi. Science 109: 312-313. Mar. 25, 1949. 470 Sci2

41830 WEAVER, L. O. Control of peach brown rot. South. Planter 110(3): 15, 50. Mar. 1949. 6 So89

41831 WENT, J. C. Investigation of the elm disease. (In Dutch.) T.N.O.-Nieuws 4: 47-50. Feb. 1949. 475 T11

41832 WILLAUME, M. F. Produits phytosanitaires et agronomie moderne. Ann. de la Mach. Agr. 3: 13-14. 1948. 58.8 An7

41833 WILLIAMS, A. T. Peach growers can beat brown rot. East. States Coop. 25(4): 17-18. Apr. 1949. 280.28 Ea7

41834 ZENTMYER, G. A., and KLOTZ, L. J. Replants after root-rot. Calavo News 1949: 2-3. Mar. 31, 1949. 280.28 C12  
Avocados.

41835 ZOGG, H. Ueber das problem der fusskrankheiten des getreides. Grüne 77: 229-233. Mar. 4, 1949. 17 Sch9

#### Diseases Caused by Bacteria

41836 HUNT, R. Fight wildfire and blue mold [of tobacco]. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 64(4): 15, 126. Apr. 1949. 6 P945K

41837 RICHARDSON, L. T., and GOODIN, R. E. Five years of bacterial ring rot. Amer. Potato J. 26: 85-89. Mar. 1949. 75.8 P842

41838 VASILKOVA, A. K. Bacteriosis of cabbage seed plants in Donbass. (In Russian.) Sad i Ogorod 1948(8): 62-63. Aug. 1948. 87 Sal

#### Viruses and Virus Diseases

41839 BALDACCI, E. Soybean mosaic in Italy. (In Italian.) Olearia 3: 111-112. Feb. 1949. 307.8 OL2  
French and English summary.

41840 BENTON, R. J., and others. Selection of citrus budwood to control scaly butt in trifoliata rootstock. Agr. Gaz. N. S. Wales 60: 31-34. Jan. 1949. 23 N472  
F. T. Bowman, L. Fraser, and R. G. Kebby, joint authors.

41841 BRIERLEY, P., and SMITH, F. F. Transmission of Chrysanthemum stunt by grafting, by leaf rubbing, and by aphids. Florists Exch. 112(15): 18-19. Apr. 9, 1949. 80 F666

41842 CHESNOKOV, N. S., and MIKHAĬLOVA, V. N. Differences in the nature of potato tuber sprouts. (In Russian.) Agrobiologiya 1948(4): 86-90. July/Aug. 1948. 20 Ag822

Studied in connection with mosaic disease.

41843 DU TOIT, J. J. The control of spotted wilt of tomatoes. Farming So. Africa 23: 786-788. Dec. 1948. 24 So842

41844 GRANOVSKY, A. A. Aphid transmission of potato virus diseases in storage. (Abs.) Amer. Potato J. 26: 93. Mar. 1949. 75.8 P842

41845 KASSANIS, B. A necrotic disease of forced tulips caused by tobacco necrosis viruses. Ann. Appl. Biol. 36: 14-17. Mar. 1949. 442.8 An72

41846 KLECZKOWSKI, A. The transformation of local lesion counts for statistical analysis. Ann. Appl. Biol. 36: 139-152. Mar. 1949. 442.8 An72  
Study of plant virus diseases.

41847 KRISTENSEN, H. R. Furrowed branches on Gravestone apples. (In Danish.) Haven 49: 59-60. Apr. 1949. 80 H29

Disease probably caused by virus.

Also in Gart.-Tid. 65: 129-130. Mar. 23, 1949. 80 G192

41848 KRISTENSEN, H. R. Mosaic disease of Primula obconica. (In Danish.) Gart.-Tid. 65: 139-141. Mar. 30, 1949. 80 G192

41849 MACLEOD, D. J. Some observations of the bunch-top (purple-top) disease in Canada. (Abs.) Amer. Potato J. 26: 95-96. Mar. 1949. 75.8 P842

41850 MILBRATH, J. A. Albino cherry. Calif. Dept. Agr. B. 38: 6. Jan./Mar. 1949. 2 C12M

41851 MONTGOMERY, H. B. S. Combating viruses on small fruits in Britain. Amer. Fruit Grower 69(3): 33. Mar. 1949. 80 G85

41852 MONTGREMIER, H. A. DE. La méthode sérologique et les maladies à virus des plantes. Rev. Tech. de la Protect. des Vég. 1: 211-227. 1948. 464.9 F84R

41853 POUND, G. S. The effect of air temperature on virus concentration and leaf morphology of mosaic-infected horseradish. J. Agr. Res. 78: 161-170. Apr. 1, 1949. 1 Ag84J

41854 PRENTICE, I. W. Resolution of strawberry virus complexes. III. The isolation and some properties of virus 3. Ann. Appl. Biol. 36: 18-25. Ref. Mar. 1949. 442.8 An72

41855 RADEMACHER, B. Starke ertragsverluste an kohlrüben durch eine viruskrankheit in Württemberg. Württemb. Wchnbl. f. Landw. 116(1): 6-7. Jan. 1, 1949. 18 W96



41856 LA RECUPERACIÓN de los citrus en Rivera sobre la base de plantas resistentes. Uruguay. Min. de Ganad. y Agr. B. Inform. 6(257): 11. Feb. 10, 1949. 9.9 G15B

Use of trifoliate orange in Uruguay as a rootstock resistant to tristeza.

41857 RICHARDSON, L. T., and RACICOT, H. N. The comparative efficiency of tuber indexing and tuber planting in the elimination of virus diseases from seed potatoes. (Abs.) Amer. Potato J. 26: 100, 102. Mar. 1949. 75.8 P842

41858 TALL, M. G., PRICE, W. C., and WERTMAN, K. Differentiation of tobacco and tomato ringspot viruses by cross immunization and complement fixation. Phytopathology 39: 288-299. Ref. Apr. 1949. 464.8 P56

41859 THUNG, T. H. Observations on some plant viruses with the electron microscope. (In Dutch.) Chron. Nat. 104: 344-348. Ref. Dec. 1948. 514 B31 English summary.

41860 VAN DER PLANK, J. E. Some suggestions on the history of potato virus X. Linn. Soc. London, J. Bot. 53, i. e. 55: 251-262. Ref. Mar. 10, 1949. 451 L64J

41861 WILKINSON, R. E., and BLODGETT, F. M. Effect of the leaf roll and X viruses on stand and yield of potatoes. (Abs.) Amer. Potato J. 26: 104. Mar. 1949. 75.8 P842

41862 WILLIAMS, R. C., and STEERE, R. L. Electron micrographic observations of tobacco mosaic virus in crude, undiluted plant juice. Science 109: 308-309. Mar. 25, 1949. 470 Sci2

#### Diseases Caused by Nematodes

41863 VECHT, J. VAN DER. Biological specialization in gall forming root nematodes. (In Dutch.) Bergcultures 18: 39, 41. Jan. 16, 1949. 22.5 B45

#### ECOLOGY

41864 ABBAYES, H. DES, and CORILLION, R. L'Obionetum des halipèdes du Nord de la Bretagne (Finistère à Ile-et-Vilaine). Paris. Acad. des Sci. Compt. Rend. 228: 935-937. Mar. 14, 1949. 505 P21 Obione portulacoides.

41865 AL'PER, V. N. Subalpine meadows with *Alium victorialis* in the Caucasian National Forest. (In Russian.) Priroda 37(11): 59-60. Ref. Nov. 1948. 410 P933

An ecological study.

41866 BURGOS, J. C. Notas ecológicas sobre nogal criollo (*Juglans australis* Gris.) cultivado en La Plata. Darwiniana 8: 406-408. Oct. 1948. 450 D25

41867 CONDON, R. W. Mulga [*Acacia aneura*] death in the west Darling country. N. S. Wales. Soil Conserv. J. 5: 7-14. Jan. 1949. 56.9 N472

Due to ecological conditions.

41868 CÔRTESE, F. Italian lavender. Ecological and morphological notes. (In Italian.) Pianta Officinali 3 (11/12): 10-13. Nov./Dec. 1948. 71.8 P57

41869 DAMBACH, C. A. A study of the ecology and economic value of crop field borders. Columbus, Ohio State Univ. Press, 1949. 205 p. Ref. (Biol. Sci. Ser. 2) 412.9 D18

Includes economic entomology.

41870 GATES, F. C. Field manual of plant ecology. New York, McGraw-Hill, 1949. 137 p. Ref. 463.8 G22

41871 HAMEL, A., and DANSEREAU, P. L'aspect écologique du problème des mauvaises herbes. II. Agriculture [Montreal] 5: 369-379. Dec. 1948. 7 Ag82

41872 HARTMANN, F. Forstliche Standortstypenlehre und pflanzensoziologie. Allg. Forst- u. Holzwirtschaft. Ztg. 60: 2-4. Jan. 1949. 99.8 AL53

41873 JULIN, E. Vessers udde. Mark och vegetation i en igenväxande löväng vid Bjärka-Säby. Vessers udde. Boden und vegetation in einer verwachsenden laubwiese bei Bjärka-Säby in Östergötland (Südschweden). Acta Phytogeog. Suecica 23, 186 p. 1948. 451 Ac82

41874 KISSER, J. Die ökologische bedeutung der verholzung. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 153-166. Ref. 1948. 105.9 V67J

41875 KNAPP, R. Die pflanzengesellschaften Mitteleuropas. Stuttgart, Ulmer, 1948. 94 p. (Einführung in die Pflanzensociologie, 2) 463.89 K72

41876 KORNAS, J., and MEDWECKA-KORNASTOWA, A. Les associations végétales sous-marines dans le golfe de Gdańsk (Baltique Polonaise). (Abs.) Akad. Umiejętności. Wydz. Mat.-Przyrodniczy. Compt. Rend. 1948(2/3): 9-10. Feb./Mar. 1948. 512 K85C

41877 KUHNHOLTZ-LORDAT, G. Contribution à la biologie de *Valeriana tripteris* L. Feuille des Nat. (n. s.) 3: 101. Nov./Dec. 1948. 410 F432

41878 KUPTSOV, A. I. Rastenie i sreda [The plant and its environment]. Moskva, Goskul'tprosvetizdat, 1948. 69 p. 463.8 K963

41879 MCDUGALL, W. B. Plant ecology. Ed. 4, thoroughly rev. Philadelphia, Lea & Febiger, 1949. 234 p. 463.8 M142

41880 MATHON, C. C. Les groupements végétaux. Nature [Paris] 3165: 20-22. Jan. 1949. 473 N21

41881 ROSENKRANZ, F. Die bedeutung der phänologie für die landwirtschaft. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 57-66. 1948. 105.9 V67J

41882 ROUSSEL. Couvert et photométrie. Soc. Forest. de Franche-Comté et Provs. de l'Est. B. Trimest. 25: 313-326. Dec. 1948. 99.9 S14

41883 RUSANOV, F. N. A sphagnum bog in the vicinity of Mugodzhar. (In Russian.) Priroda 37(9): 66. Sept. 1948. 410 P933

An ecological study.

41884 TISDALE, E. W. Ecological characteristics of some western Canadian grasslands in relation to land classification. (Abs.) Northwest Sci. 22: 33-34. Feb. 1948. 470 N81

41885 VELOSO, H. P. General considerations on the vegetation of the State of Goiás. Preliminary notes on the phytosociology of the Central Brazilian Plateau. (In Portuguese.) Inst. Oswaldo Cruz Mem. 46: 89-124. Mar. 1948. 448.9 In74

English summary.

41886 WAGNER, H. Pflanzensoziologie und bodenkultur. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 43-56. Ref. 1948. 105.9 V67J

#### MORPHOLOGY, ANATOMY, AND CYTOLOGY

41887 ALMEIDA, J. F. R. D', and CORREA, J. P. A contribution to the study of the root habits and anatomy of Indian plants. Bombay. U. J., Sect. B, Biol. Sci. 17(3): 39-60. (To be cont.) Nov. 1948. 513 B633

41888 BAEHNI, C., and BONNER, C. E. B. La vascularisation des fleurs chez les Lopezieae (Onagracées). Candollea 11: 305-322. 1947/48. 451 C16

41889 BERZAGHI, M. N. The flower, reproductive organ of the higher plants. (In Portuguese.) Bolsa de Mercadorias de Sao Paulo. B. Inform. 292: 8181-8182. Feb. 16, 1949. 287 B633B

41890 BÖCHER, T. W. Planternes anatomi og embryologi [Plant anatomy and embryology]. København, Munksgaard, 1948. 265 p. (Botanik, v. 1, No. 2) 463.4 B632

41891 BONNER, C. E. B. The floral vascular supply in *Epilobium* and related genera. Candollea 11: 277-303. Ref. 451 C16

41892 BRAUNGART, D. C. Meiosis in colchicine induced tetraploids of *Rhoeo*. J. Hered. 40: 25-28. Jan. 1949. 442.8 Am3

41893 BUGNON, F. Sur la phyllotaxie des grappes et des vrilles de la vigne (*Vitis vinifera* L.). Paris. Acad. des Sci. Compt. Rend. 228: 770-771. Feb. 28, 1949. 505 P21

41894 BUGNON, F. Sur la valeur morphologique des grappes et des vrilles de la vigne (*Vitis vinifera* L.). Paris. Acad. des Sci. Compt. Rend. 228: 937-939. Mar. 14, 1949. 505 P21

41895 CRÉTÉ, P. Embryogénie des Gentianacées. Développement de l'embryon chez le *Gentiana asclepiadea* L. Paris. Acad. des Sci. Compt. Rend. 228: 768-770. Feb. 28, 1949. 505 P21

41896 DUNCAN, R. E., and MACLEOD, R. A. The chromosomes of some of the polyantha. Amer. Orchid Soc. B. 18: 159-163. Mar. 1949. 80 Am329

*Paphiopedilum*, polyantha group.

41897 DUNCAN, R. E., and MACLEOD, R. A. The chromosomes of the continental species of *Paphiopedilum* with solid green leaves. Amer. Orchid Soc. B. 18: 84-89. Feb. 1949. 80 Am329



41898 ERDTMAN, G. Pollen morphology and plant taxonomy. VIII. Didiereaceae. Paris Mus. d'Hist. Nat. (ser. 2) 20: 387-394. Ref. June 1948. 410.9 P213

41899 FARR, W. K. The tertiary membrane of the plant cell wall. J. Phys. & Colloid Chem. 53: 260-274. Ref. Feb. 1949. 381 J822

41900 FINN, V. V. On the 50th anniversary of the discovery of double fertilization in Angiospermae. (In Russian.) Priroda 37(9): 80-81. Sept. 1948. 410 P933

41901 FREY-WYSSLING, A., MÜHLETHALER, K., and WYCKOFF, R. W. G. Mikrofibrillenbau der pflanzlichen Zellwände. Experientia 4: 475-476. Dec. 15, 1948. 475 Ex7  
English summary.

41902 GOIDANICH, G., RUGGIERI, G., and GAGNOTTO, A. A third form of agamic fructification in Deuterophoma tracheiphila Petri. (In Italian.) Ann. della Sper. Agr. (n. s.) 2: 671-675. 1948. 16 An76  
English summary.

41903 GRANT, V. Pollination systems as isolating mechanisms in angiosperms. Evolution 3: 82-97. Ref. Mar. 1949. 443.8 Ev62

41904 GUNCKEL, J. E., THIMANN, K. V., and WETMORE, R. H. Studies of development in long shoots and short shoots of Ginkgo biloba L. IV. Growth habit, shoot expression and the mechanism of its control. Amer. J. Bot. 36: 309-316. Mar. 1949. 450 Am36

41905 HECHT, A. Somatic chromosomes of Sarra-cenia. (Abs.) Northwest Sci. 22: 14. Feb. 1948. 470 N81

41906 HEITZ, E. Über einen gradienten in der samenschale von Crepis capillaris bei der keimung und seine mutmassliche bedeutung. Experientia 4: 477-478. Dec. 15, 1948. 475 Ex7  
English summary.

41907 MACDONALD, J. A. Structure of the resting nucleus in Marasmius androsaceus Fries. Nature [London] 163: 579-580. Ref. Apr. 1949. 472 N21

41908 MOORE, L. B., and ADAMS, N. M. Fruit characters of Pittosporum dallii Cheesem. Roy. Soc. New Zeal. Trans. & Proc. 77: 250-252. Feb. 1949. 514 W96

41909 NOVICK, A., and SPARROW, A. H. The effects of nitrogen mustard on mitosis in onion root tips. J. Hered. 40: 13-17. Ref. Jan. 1949. 442.8 Am3

41910 PARROT, G. La peltogénie en tératologie végétale. Feuille des Nat. (n. s.) 3: 60-62. May 1948. 410 F432

41911 PFEIFFER, H. H. Vom gebrauch des polarisationsmikroskops in der botanischen cytologie. Oberhess. Gesell. f. Nat.- u. Heilk. Giessen. Ber. Naturw. Abt. (1947) 23: 32-55. Ref. 1948. 509 G36N

41912 REED, J. F., and FREYTAG, G. F. The resin sac pattern in the needles of Engelmann spruce and blue spruce from southeastern Wyoming. Amer. Midland Nat. 41: 233-236. Jan. 1949. 410 M58

41913 RHOADES, M. M., and KERR, W. E. A note on centromere organization. Natl. Acad. Sci. Proc. 35: 129-132. Ref. Mar. 1949. 500 N21P

41914 SALISBURY, SIR E. Leaf form and function. Nature [London] 163: 515-518. Apr. 2, 1949. 472 N21

41915 SCHUSSNIG, B. Stammesgeschichtlicher formenwandel und gestaltungstypen im reich der pilze. Sydowia 2: 83-230. Ref. 1948. 450 Sy2

41916 SOUÈGES, R. Embryogénie des Papilionacées. Développement de l'embryon chez le Cicer arietinum L. Paris. Acad. des Sci. Compt. Rend. 228: 792-794. Mar. 7, 1949. 505 P21

41917 SOULAIRE, J. Morphologie des fruits des Cactacées. Cactus [Paris] 1948: 51-52. Oct./Dec. 1948. 450 C114

41918 STEFFEN, K. Mehrzelliges archespor bei Balsaminaceen. Planta 36: 203-213. Ref. 1948. 450 P693

41919 STEIL, W. N. A study of apospory in Pteridium aquilinum. Amer. Fern J. 39: 19-22. Ref. Jan./Mar. 1949. 450 Am35

41920 SWAMY, B. G. L. Embryological studies in the Orchidaceae. I-II. Amer. Midland Nat. 41: 184-232. Ref. Jan. 1949. 410 M58

I. Gametophytes, p. 184-201; II. Embryogeny, p. 202-232.

41921 WILSON, G. B., and CHENG, K. C. Segregation and reduction in somatic tissues. II. The separation of homologous chromosomes in Trillium species. J. Hered. 40: 3-6. Jan. 1949. 442.8 Am3

41922 WYLIE, R. B. Variations in leaf structure among Adiantum pedatum plants growing in a rock cavern. Amer. J. Bot. 36: 282-287. Mar. 1949. 450 Am36

## GENETICS

41923 ÅKERMAN, Å., and MAC KEY, J. The breeding of self-fertilized plants by crossing. In Åkerman, Å., ed. Svalöf 1886-1946, p. 46-71. Ref. Lund, Blom, 1948. 61.9 AL5

41924 ÅKERMAN, Å. Local plant breeding and testing at the branch stations. In Åkerman, Å., ed. Svalöf 1886-1946, p. 258-277. Lund, Blom, 1948. 61.9 AL5

41925 ÅKERMAN, Å., ed. Svalöf 1886-1946; history and present problems. Lund, Blom, 1948. 389 p. 61.9 AL5

Plant breeding station maintained by the Swedish Seed Association.

41926 ALEEV, N. P. Experiments on changing the nature of wheat by the method of vegetative hybridization. (In Russian.) Agrobiologiya 1948(4): 48-56. July/Aug. 1948. 20 Ag822  
Embryo grafts.

41927 BELL, G. D. H. Plant Breeding Institute: historical review, 1912-1948. Cambridge U. School Agr. Mem. 20: 5-10. Ref. Feb. 1949. 103 C14M

41928 CHAVAN, V. M., and BHAT, N. R. Modern methods of plant breeding and seed multiplication and the scope for their economic utilisation in India. Poona Agr. Col. Mag. 39: 15-31. Ref. Nov. 1948. 22 P79

41929 CHILTON, S. J. P., and WHEELER, H. E. Genetics of Glomerella. VI. Linkage. Amer. J. Bot. 36: 270-273. Ref. Mar. 1949. 450 Am36

41930 CRANE, M. B. Plant chimeras. Countryman [Burford] 39: 57-60. Spring 1949. 281.28 C832

41931 DVORIANKIN, F. A. Refutation of Morgan's and Mendel's teachings and the struggle for production. (In Russian.) Sovet. Agron. 6(10): 16-31. Oct. 1948. 20 So84

Results of the July session of the Akademii Sel'skhoz'iaistvennykh Nauk im. V. I. Lenina.

41932 FREY, K. J. The inheritance of protein and certain of its components in maize. Agron. J. 41: 113-117. Ref. Mar. 1949. 4 Am34P

41933 FROIER, K. The journal of the Swedish Seed Association (Sveriges Utsädesförenings Tidskrift) and other publications of the Association 1886-1946. In Åkerman, Å., ed. Svalöf 1886-1946, p. 371-384. Lund, Blom, 1948. 61.9 AL5

41934 GUSTAFSSON, A., and MAC KEY, J. Mutation work at Svalöf. In Åkerman, Å., ed. Svalöf 1886-1946, p. 338-357. Ref. Lund, Blom, 1948. 61.9 AL5

41935 HENDERSON, M. T. A consideration of the genetic explanations of heterosis. Agron. J. 41: 123-126. Ref. Mar. 1949. 4 Am34P

41936 HEWITT, J. L. What is a tetraploid? Orchid Digest 13: 294-295. Jan./Feb. 1949. 80 Or172

41937 KARAPETIAN, V. K. Changing the nature of hard wheats into soft ones. (In Russian.) Agrobiologiya 1948(4): 5-21. July/Aug. 1948. 20 Ag822

41938 KASERER, H. Die beeinflussung der samen der kulturpflanzen durch auslese und ernteverfahren. Bodenkultur 2: 184-187. 1948. 19 B635

41939 KHITRINSKII, V. F. Possibility of directed variability in the hybrid offspring of wheats. (In Russian.) Agrobiologiya 1948(4): 22-38. July/Aug. 1948. 20 Ag822

41940 KIHARA, H., and LILIENFELD, F. A. Chromosome pairing and fertility in a new synthetic Triticum spelta. Akad. Umiejtnosci. Wyd. Mat.-Przyrodniczy. Compt. Rend. 1948(1): 7-12. Jan. 1948. 512 K85C

41941 KIRICHENKO, F. G. Intervarietal free crossing of winter wheats. (In Russian.) Agrobiologiya 1948(4): 39-47. July/Aug. 1948. 20 Ag822

41942 KOPETZ, L. M. Neue wege der pflanzenanzucht. Pflug 2: 23-24. Feb. 1949. 19 P48

41943 LEVAN, A. The Cyto-genetic Department 1931-1947. In Åkerman, Å., ed. Svalöf 1886-1946, p. 304-323. Ref. Lund, Blom, 1948. 61.9 AL5



- 41944 LJUNG, E. W. The Swedish Seed Association, its foundation, organization, development and activities. In Åkerman, Å., ed. Svalöf 1886-1946, p. 3-34. Lund, Blom, 1948. 61.9 AL5
- 41945 MAINS, E. B. Heritable characters in maize. Linkage of a factor for shrunken endosperm with the  $a_1$  factor for aleurone color. J. Hered. 40: 21-24. Jan. 1949. 442.8 Am3
- 41946 MOËS, A. Les disjonctions mendéliennes. B. Hort. (n. s.) 4: 3-6, 15. Jan. 1, 1949. 80 B873
- 41947 MORAN, R. Why count chromosomes? Desert Plant Life 21: 21-27. Feb. 1949. 450 D45
- 41948 MÜNTZING, A. Experiences from work with induced polyploidy in cereals. In Åkerman, Å., ed. Svalöf 1886-1946, p. 324-337. Ref. Lund, Blom, 1948. 61.9 AL5
- 41949 NILSSON-LEISSNER, G. Natural selection and the breeding of cross-fertilizing plants. In Åkerman, Å., ed. Svalöf 1886-1946, p. 198-210. Ref. Lund, Blom, 1948. 61.9 AL5
- 41950 PANSE, V. G., and BOKIL, S. D. Estimation of genetic variability in plants. Indian Soc. Agr. Statis. J. 1: 80-90. 1948. 22 In292
- 41951 PETERSEN, E. L., ELDREDGE, J. C., and JOHNSON, I. J. Predicting the performance of pop corn hybrids from single cross data. Agron. J. 41: 104-106. Mar. 1949. 4 Am34P
- 41952 PHILP, J., and SHERRY, S. P. The genetics of hybrids between green wattle (*Acacia decurrens*) and black wattle (*Acacia mollissima*). So. African Forestry Assoc. J. 17: 6-58. Ref. Feb. 1949. 99.9 So82
- 41953 PIROVANO, A. On current genetic events. (In Italian.) Coltivatore e Gior. Vinic. Ital. 95: 31-32. Feb. 15, 1949. 16 C72
- 41954 PLEŠETSKÍ, P. F., and SHIDENKO, I. KH. Effect of breeding conditions on the formation of the nature of pear hybrid seedlings. (In Russian.) Agrobiologija 1948(4): 57-71. July/Aug. 1948. 20 Ag822
- 41955 SALAMOV, A. V. Possibility of securing heterosis in corn. (In Russian.) Selekt. i Semen. 15(7): 22-32. July 1948. 61.9 Se5
- 41956 SAMVIRKENDE SJAELANDSKE LANDBOFORENINGERS PLANTEAVLSUDVALG. Annual report on the plant breeding activities of the Agricultural Associations on Sjaelland, 1948. (In Danish.) København, 1949. 313 p. 11 Z1B
- 41957 SIZOVA, M. A. Hereditary variations of plants produced from adventitious buds of potato tubers. (In Russian.) Agrobiologija 1948(3): 42-49. Ref. May/June 1948. 20 Ag822
- 41958 SORTENVERSUCHE für das österreichische pflanzenzuchtbuch 1947/48. Bodenkultur 2: 271-281. 1948. 19 B635
- 41959 SOSA-BOURDOUIL, C. Sur l'apparition de la panachure dans les fleurs de Matthiola. Paris Mus. d'Hist. Nat. (ser. 2) 20: 385-386. June 1948. 410.9 P213
- 41960 STEBBINS, G. L., JR., and WALTERS, M. S. Artificial and natural hybrids in the Gramineae, tribe Hordeae. III. Hybrids involving *Elymus condensatus* and *E. triticoides*. Amer. J. Bot. 36: 291-301. Ref. Mar. 1949. 450 Am36
- 41961 THERMAN-SUOMALAINEN, E. The role of polyploidy. (In Finnish.) Suomen Maataloustiet. Seura, Maataloustiet. Aikakausk. 20: 117-125. 1948. 20 Su7M English summary.
- 41962 WEBSTER, W. H., and RIEMAN, G. H. Unusual variegations in the Sebago potato. I. Somatic mutations. (Abs.) Amer. Potato J. 26: 104. Mar. 1949. 75.8 P842
- 41963 WRIGHT, J. W. Local genetic variation in silver maple [*Acer saccharinum*]. J. Forestry 47: 300-302. Apr. 1949. 99.8 F768
- 41964 ZARUBAILO, T. ÍA., and KISLÍUK, M. M. Conditions for passing the yarovization stage as a factor in hereditary variability. (In Russian.) Agrobiologija 1948(3): 29-32. May/June 1948. 20 Ag822 Studies on wheat.
- 41966 ANAGNOSTOPOULOS, P. T. Aitia akarpias tou elaiōnos Amphissēs [Cause of sterility of the olive at Amphissa]. Athēnai, 1948. 39 p. 94.7 An1A English summary.
- 41967 ARNON, D. I. The application of nutrients to the above-ground parts of plants to correct deficiencies. Natl. Joint Com. Fert. Appl. Proc. 24: 30-31. 1948. 57.9 N216
- 41968 ASANA, R. D., and MANI, V. S. Photosynthesis in the ears of five varieties of wheat. Nature [London] 163: 450-451. Ref. Mar. 19, 1949. 472 N21
- 41969 ASHBEL, D. Frequency and distribution of dew in Palestine. Geog. Rev. 39: 291-297. Apr. 1949. 500 Am35G Effect on plants.
- 41970 BAUMEISTER, W. Über die atmung verschiedener kartoffelsorten in abhängigkeit von den klima- und boden- verhältnissen der anbauggebiete. Planta 36: 214-229. Ref. 1948. 450 P693
- 41971 BENSON, A. A., and CALVIN, M. The path of carbon in photosynthesis. III. Cold Spring Harbor Symposia Quantit. Biol. 13: 6-10. 1948. 442.9 C672C
- 41972 BERRY, L. J. The influence of oxygen tension on the respiratory rate in different segments on onion roots. J. Cell. & Compar. Physiol. 33: 41-66. Ref. Feb. 1949. 444.8 J822
- 41973 BLEDSOE, R. W., COMAR, C. L., and HARRIS, H. C. Absorption of radioactive calcium by the peanut fruit. Science 109: 329-330. Apr. 1, 1949. 470 Sci2
- 41974 BLIN, H. Vieilles lunes. Rev. Hort. [Paris] 120: 379-381. Dec. 1948. 80 R32
- 41975 BOGEN, H. J. Untersuchungen über hitzetod und hitzeresistenz pflanzlicher protoplaste. Planta 36: 298-340. Ref. 1948. 450 P693
- 41976 BÖHNING, R. H. Time course of photosynthesis in apple leaves exposed to continuous illumination. Plant Physiol. 24: 222-240. Ref. Apr. 1949. 450 P692
- 41977 BONI, A. Experiments on the application of growth substances, especially on the tomato, lettuce, cabbage, celery, etc. (In Italian.) Ital. Vinic. ed Agr. 38: 279-280. Dec. 31, 1948. 95.8 It1
- 41978 BONNER, J., and BONNER, H. The B vitamins as plant hormones. In Harris, R. S., and Thimann, K. V., ed. Vitamins and hormones, 6: 225-275. Ref. New York, Academic Press, 1948. 386.2 H243
- 41979 BONNETT, O. T. Phases of development of the wheat plant in relation to yield. East. Soft Wheat Impr. Conf. (1947) 10: 1-2. 1948. 59.9 Ea7
- 41980 BORBOLLA Y ALCALA, J. M. R. DE LA, and CAMOYÁN DE R. DE LA BORBOLLA, M. DE LOS A. La preparación de soluciones nutritivas para investigaciones de nutrición vegetal. Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An. 7: 365-402. Ref. May/Aug. 1948. 506 Sp12
- 41981 BRUDIN, I. D. Biology of common reed [*Phragmites communis*] under arid conditions. (In Russian.) Priroda 37(9): 62-63. Sept. 1948. 410 P933
- 41982 BUSHNELL, J. Some effects of restricting the oxygen supplied to potato roots. (Abs.) Amer. Potato J. 26: 90-91. Mar. 1949. 75.8 P842
- 41983 CAMPBELL, C. C., and SASLAW, S. Enhancement of growth of certain fungi by streptomycin. Soc. Expt. Biol. & Med. Proc. 70: 562-563. Mar. 1949. 442.9 So1
- 41984 CATALINA, L. Las fitohormonas y el crecimiento de las plantas. Cult. Mod. 30: 136. Apr. 1947. 15 C89
- 41985 CHARCONNET-HARDING, F., and JACQUOT, R. L'évolution du tryptophane et de l'azote total au cours du développement du blé et du pois. Paris. Acad. des Sci. Compt. Rend. 228: 857-859. Mar. 7, 1949. 505 P21
- 41986 CRAMER, M., and MYERS, J. Effects of starvation on the metabolism of *Chlorella*. Plant Physiol. 24: 255-264. Ref. Apr. 1949. 450 P692
- 41987 CURTIS, D. S. Effect of oxygen supply in nutrient solution on avocado and citrus seedlings. Soil Sci. 67: 253-260. Ref. Mar. 1949. 56.8 So3
- 41988 DANIEL, T. W. Coniferous root exudate. Plant Physiol. 24: 327-330. Apr. 1949. 450 P692
- 41989 DAVID, R. Essais de stimulation de la germination du pin maritime. Soc. de Biol. Compt. Rend. 142: 1545-1546. Dec. 1948. 442.9 P21

## PHYSIOLOGY

- 41965 ALMEIDA, C. R. M. DE. The use of plant hormones to control preharvest drop of olives. (In Italian.) Olearia 3: 21-23. Jan. 1949. 307.8 OL2 English and French summaries.



- 41990 DAVIS, D. E. A contribution to the study of calcium deficiency in *Soja max* and *Pinus taeda*. Ohio. State U. Abs. Doctoral Diss. (1946/47) 54: 103-109. 1948. 241.8 Oh3
- 41991 DAVIS, D. E. Some effects of calcium deficiency on the anatomy of *Pinus taeda*. Amer. J. Bot. 36: 276-282. Ref. Mar. 1949. 450 Am36
- 41992 DEDE, L. Spurenelemente. Orion 4: 55-58. Jan. 15, 1949. 474 Cr4  
Effects on plants.
- 41993 DHILLON, A. S., and LUCAS, E. H. Transmission through graft unions of formative stimuli induced by 2,4-dichlorophenoxyacetic acid. Mich. Agr. Expt. Sta. Q. B. 31: 354-357. Feb. 1949. 100 M58S
- 41994 DUFRENOY, J. Substances régulatrices de croissance. Rev. Hort. [Paris] 120: 294. Aug./Sept. 1948. 80 R32
- 41995 DUFRENOY, M. L., and DUFRENOY, J. Le périodisme en horticulture et en biologie végétale. Rev. Hort. [Paris] 120: 348-352. Nov. 1948. 80 R32
- 41996 ELLICKSON, B. E. Nutritional studies on *Oospora lactis*. Urbana, Ill., 1949. 3 p. 462.09 EL5  
Abstract of thesis—University of Illinois.
- 41997 ELLIS, N. K. The effect of incorporating 2,4-D in the regular spray on the yield of white potatoes. (Abs.) Amer. Potato J. 26: 92. Mar. 1949. 75.8 P842
- 41998 ENIKKEEV, KH. K. Effect of rootstock on change of characteristics in [fruit] hybrids. (In Russian.) Agrobiologiya 1948(4): 134-138. July/Aug. 1948. 20 Ag822
- 41999 EREMEEV, G. N. Physiological characteristics of drought resistance diagnosis of fruit plants. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(10): 19-23. Ref. 1948. 20 Ak1
- 42000 ERNOULD, L. Monstruosités anatomiques produites sur la betterave par certains désherbants sélectifs. Inst. Belge pour l'Amélior. de la Betterave. P. 16: 321-323. Nov./Dec. 1948. 66.9 In7  
English and Flemish summaries.
- 42001 FALCK-HANSEN, H. Hormones in the service of fruit culture. (In Danish.) Haven 49: 58-59. Apr. 1949. 80 H29
- 42002 FEDOROVSKIĬ, D. V. Relation of wilting coefficient to plant species and to osmotic pressure of soil solution. (In Russian.) Pochvovedenie 1948: 612-621. Ref. Oct. 1948. 57.8 P34
- 42003 FLACHS, K. Nährstoffmangelerscheinungen an garten- und obstgewächsen. Süddeut. Erwerbsgärt. 2: 21-22. Mar. 1948. 80 Su2
- 42004 FLEMER, W., III. Mycorrhiza in the heath family. Plants & Gard. 5: 29-30. Spring 1949. 450 P694  
Ericaceae.
- 42005 FRAHM-LELIVELD, J. A. Polyploidy in plants through chemical compounds. (In Dutch.) Chron. Nat. 104: 321-334. Dec. 1948. 514 B31  
English summary.
- 42006 FUNKE, H., and SÖDING, H. Über das wuchsstoff-hemmstoffsystem der haferkoleoptile und der kartoffelknolle. Planta 36: 341-370. Ref. 1948. 450 P693
- 42007 GAARDER, T., and RØYSET, S. Forsøk med kobber til havre på Vestlandsk myr [Experiments with copper on oats on moor soil in western Norway]. Bergens Mus. Årbok 1946-47(5), 88 p. Ref. 1948. 502 B45  
English summary.
- 42008 GEL'FANDBEIN, P. S. The lower microzone of the petiole and its nature. (In Russian.) Agrobiologiya 1948(4): 78-85. July/Aug. 1948. 20 Ag822  
Leaf growth of fruit trees.
- 42009 GESLIN, H., and JONARD, J. Maturation du blé et climat. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 361-371. 1948. 389.8 An73
- 42010 GOODALL, D. W. Studies in the diagnosis of mineral deficiency. V. Manganese deficiency in wheat. Ann. Appl. Biol. 36: 26-39. Ref. Mar. 1949. 442.8 An72
- 42011 GRAILLOT, G., GUÉRILLOT, J., and GUÉRILLOT-VINET, J. Action inhibitrice de la coumarine sur la germination, relations avec la vitamine C des graines. Grignon. École Natl. d'Agr. Ann. (ser. 3) (1947/48) 6: 5-15. Ref. 1948. 105.3 G872A
- 42012 GREULACH, V. A., and SINGH, S. Some effects of nonherbicide concentrations of 2,4-D on the development of the bean plant. Science 109: 336-337. Apr. 1, 1949. 470 Sci2
- 42013 GUÉRILLOT-VINET, J., GUÉRILLOT-VINET, MME. J., and RICHER, A. Sur l'utilisation de la pyridine par *Fusarium solani*. Paris. Acad. des Sci. Compt. Rend. 228: 942-944. Mar. 14, 1949. 505 P21
- 42014 HALLEMANS, A. Quelques maladies de carence des nos essences fruitières. Courrier Hort. 11: 110-111. Feb. 1949. 80 C834
- 42015 HEDLUND, T. Om stråsädens näringsupptagande med särskild hänsyn till gräfläcksjukans orsak [On the uptake of nutritive substances by grain with special reference to cause of gray speck disease]. Uppsala, Almqvist & Wiksell, 1948. 90 p. Ref. 463.34 H352
- 42016 HILLERY, W. O. The inside story. Northwest Gard. & Homes 17(2): 12-13, 39. Apr. 1949. 80 N813  
Plant physiology.
- 42017 HODGSON, R. W. The problem of unduly small citrus fruit sizes. Tex. Farming & Citric. 25(9): 12-13. Mar. 1949. 80 T31
- 42018 HOFER, J. Die wurzelbildtriebmethode und ihre anwendung zur saatgutbeurteilung. Bodenkultur 2: 161-183. Ref. 1948. 19 B635
- 42019 HOWARD, R. W. Tomorrow's crops guaranteed by volts. Co-op Power 6(3): 24-25, 50. Mar. 1949. 335.8 C78  
Potentiometer to test viability of seeds.
- 42020 HOYMAN, W. G. The effect of zinc-containing sprays and dusts on potatoes. (Abs.) Amer. Potato J. 26: 94-95. Mar. 1949. 75.8 P842
- 42021 JONARD, J. La notion de précocité chez le blé. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 355-360. 1948. 389.8 An73
- 42022 JONES, L. H., SHEPARDSON, W. B., and PETERS, C. A. The function of manganese in the assimilation of nitrates. Plant Physiol. 24: 300-306. Ref. Apr. 1949. 450 P692
- 42023 JONES, U. S., and HOOVER, C. D. Radioactive materials fail to increase crop yields in experiment station tests. Miss. Farm Res. [Miss. Sta.] 12(3): 1. Mar. 1949. 100 M69Mi
- 42024 KELLY, W. C., and SOMERS, G. F. The effect of time of harvest, variety, and storage of the ascorbic acid content of potato tubers. Amer. Potato J. 26: 47-53. Feb. 1949. 75.8 P842
- 42025 KING, G. S. Direct and transmitted X-ray effects on growth of tobacco callus in vitro. Amer. J. Bot. 36: 265-270. Ref. Mar. 1949. 450 Am36
- 42026 KOPETZ, L. M. Der einfluss der saatstärke auf die ertragsbildung. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 83-94. Ref. 1948. 105.9 V67J
- 42027 KORŪKAJEV, S. I. In regard to the diagnosis of cold resistance of winter wheats by the method of coloring the living plants. (In Russian.) Selek. i Semen. 15(10): 36-38. Oct. 1948. 61.9 Se5
- 42028 KOTT, C. A. Agrobiological characteristics of weeds with deep-rooting shoots. (In Russian.) Agrobiologiya 1948(3): 50-62. May/June 1948. 20 Ag822
- 42029 KRAMER, M., and WENT, F. W. The nature of the auxin in tomato stem tips. Plant Physiol. 24: 207-221. Ref. Apr. 1949. 450 P692
- 42030 KRIER, J. P. Effect of treatments to induce germination of seeds of several species valuable for soil conservation plantings. (Abs.) J. Forestry 47: 312. Apr. 1949. 99.8 F768
- 42031 KUPERMAN, F. M. Effect of different parts of the seed on the growth of wheat. (In Russian.) Selek. i Semen. 15(7): 65-70. July 1948. 61.9 Se5
- 42032 LAKSHMIKANTHAM, M. A note on arrowing in sugarcane clumps. Madras Agr. J. 36: 9-11. Jan. 1949. 22 M262



- 42033 LARUE, P. Principes de physiologie viticole en vue de la fructification. Arbres et Fruits 38: 29. Apr. 1949. 80 Ar1
- 42034 LAURIE, A. Why plants do or do not flower. Flower Grower 36: 349, 391. Apr. 1949. 80 M72
- 42035 LEBEDEV, D. V. Artemisia and the neighboring plants. (In Russian.) Priroda 37(9): 63-64. Ref. Sept. 1948. 410 P933  
Effect on their growth.
- 42036 LHOSTE, J., and RAVAUULT, L. Effets sur blé et pois, de quelques insecticides organiques de synthèses, employés comme désinfectants du sol. Rev. Hort. [Paris] 120: 287-294. Ref. Aug./Sept. 1948. 80 R32
- 42037 LICHTBUER, J. C. DE. Action de la lune sur la végétation. B. Hort. (n. s.) 4: 7. Jan. 1, 1949. 80 B873
- 42038 LINDAHL, I., DAVIS, R. E., and SHEPHERD, W. O. The application of the total available carbohydrate method to the study of carbohydrate reserves of switch cane (*Arundinaria tecta*). Plant Physiol. 24: 285-294. Ref. Apr. 1949. 450 P692
- 42039 LOH, C. S., and CHEN, K. C. Studies on the leaf blade in relation to the elongative growth of the sugarcane stalk. (In Chinese.) J. Sugarcane Res. 2(12): 1-35. Dec. 1948. 65.8 J822  
English summary.
- 42040 LOKHIN, M. A. Biological aging—one of the principal causes of red clover degeneration. (In Russian.) Agrobiologia 1948(4): 91-108. Ref. July/Aug. 1948. 20 Ag822
- 42041 LOWTHER, C. V. Low temperature as a factor in spore germination of dwarf bunt chlamydo spores. (Abs.) Northwest Sci. 22: 15-16. Feb. 1948. 470 N81
- 42042 LWOFF, A., and SCHAEFFER, P. La décoloration d'*Euglena gracilis* par la streptomycine. Paris. Acad. des Sci. Compt. Rend. 228: 779-781. Feb. 28, 1949. 505 P21
- 42043 MAEKAWA, T., and MYODO, M. On the plant hormone prepared from *Brassica campestris* meal. (In Japanese.) Hort. Assoc. Japan. J. 17: 9-21. Ref. Mar. 1948. 87 H78
- 42044 MATTE, J. Cultures de tissus et d'organes de plantes. Nord Agr. 5(18): 2. Mar. 4, 1949. 14 N75
- 42045 MEFFRE, G. Applications pratiques des hormones: le bouturage. Rev. Hort. de l'Algérie 52(9/10): 19-21. Dec. 1948. 87 R32
- 42046 MOREL, R. Influence d'extraits aqueux de graines sur la germination. Grignon. Ecole Natl. d'Agr. Ann. (ser. 3) (1947/48) 6: 17-21. 1948. 105.3 G872A
- 42047 MORILLO, M. No tenemos que ser lunáticos. Agricultura [Madrid] 18: 58-62. Feb. 1949. 15 Ag84  
Chiefly effect of moon on plants.
- 42048 MORRIS, H. D., and PIERRE, W. H. Minimum concentrations of manganese necessary for injury to various legumes in culture solutions. Agron. J. 41: 107-112. Ref. Mar. 1949. 4 Am34P
- 42049 MOSOLOV, I. V. Some characteristics of the nitrogen nutrition in the plant during the deficiency of copper in the soil. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(6): 32-36. 1948. 20 Ak1
- 42050 NANCE, J. P. A comparison of carbohydrate loss and carbon dioxide production during fermentation by barley roots. Amer. J. Bot. 36: 274-276. Ref. Mar. 1949. 450 Am36
- 42051 NOGGLE, G. R., and WATSON, S. A. The relationship of riboflavin and ascorbic acid to carbohydrate and nitrogen fractions in immature oat plants as influenced by mineral deficiencies. Plant Physiol. 24: 265-277. Ref. Apr. 1949. 450 P692
- 42052 OBATON, F. Le pouvoir réflecteur des Conifères pour le rayonnement infrarouge. Paris. Acad. des Sci. Compt. Rend. 228: 939-941. Mar. 14, 1949. 505 P21
- 42053 OSTERHOUT, W. J. V. Movements of water in cells of *Nitella*. J. Gen. Physiol. 32: 553-557. Mar. 20, 1949. 447.8 J822
- 42054 OSTERHOUT, W. J. V. Transport of water from concentrated to dilute solutions in cells of *Nitella*. J. Gen. Physiol. 32: 559-566. Mar. 20, 1949. 447.8 J822
- 42055 PARROT, A. G. À propos de la lumière végétale. Nature [Paris] 3165: 26-27. Jan. 1949. 473 N21
- 42056 PAVLYCHENKO, T. K. Plant competition and weed control. Agr. Inst. Rev. 4: 142-145. Mar. 1949. 7 Ag8
- 42057 PERUR, N. G. Micro-nutrients in plants. Poona Agr. Col. Mag. 39: 45-49. Nov. 1948. 22 P79
- 42058 PETERBURGSKII, A. V. Plant nutrition when there is a deficiency of soluble salts. (In Russian.) Sov. Agron. 6(7): 63-71. July 1948. 20 So84
- 42059 PHAFF, H. J., and MRAK, E. M. Sporulation in yeasts. II. Wallerstein Labs. Commun. 12(36): 29-44. Ref. Mar. 1949. 390.9 W15  
Summary in French and Spanish.
- 42060 PODHRAZKY, G. Zur kenntnis der askosporienkeimung von presshefen. Versuchsanst. f. das Gärungsgewerbe. Mitt. 1949(1/2): 9-10. Jan./Feb. 1948. 390.08 V67
- 42061 POHL, R. Ein beitrage zur analyse des streckungswachstums der pflanzen. Planta 36: 230-261. Ref. 1948. 450 P693
- 42062 PORCINAI, P. Flower culture in artificial substrata. (In Italian.) Riv. della Ortoflorofruttic. Ital. 32: 157-158. Sept./Oct. 1948. 86 R22
- 42063 RANGEL, J. F. Does Bordeaux mixture affect the tomato? (In Portuguese.) Soc. Rural Bras. Rev. 28: 20-21. Jan. 1948. 9.2 B733
- 42064 RATNER, E. I. Distribution of water and mineral substances in plants and absorptive activity of the roots. (In Russian.) Pochvovedenie 1948: 622-629. Ref. Oct. 1948. 57.8 P34
- 42065 RAZUMOV, V. I. From our postwar research in the field of plant physiology. (In Russian.) Agrobiologia 1948(3): 19-28. May/June 1948. 20 Ag822  
Laboratorifi Fiziologii Rastenii Vsesoiuznogo Instituta Rastenievodstva.
- 42066 RECALDE MARTINEZ, L. Influencia de la harmina en el crecimiento de plantulas de trigo. Spain. Inst. Españ. de Edafologia, Ecol. y Fisiol. Veg. An. 7: 343-355. Ref. May/Aug. 1948. 506 Sp12
- 42067 REEVES, R. G., and VILANOVA, T. Estudio preliminar acerca del crecimiento periodico de los cafetos. Café de El Salvador 29: 1085-1092. Dec. 1948. 68.28 C112
- 42068 REUTER, M. Pflanzenphänologische beobachtungen in Finnland 1941-1945. Finska Vetensk. Soc. Bidrag till Känn. af Finlands Natur och Folk 92(1), 79 p. Helsingfors, 1948. 511 H36B
- 42069 RIVOIRE, P. Sur l'emploi des hormones chez les Chrysanthèmes. Rev. Hort. [Paris] 120: 229. July 1948. 80 R32
- 42070 ROBERT, E. L'arrosage et la physiologie végétale. Rev. Hort. [Paris] 120: 386-388. Dec. 1948. 80 R32
- 42071 ROBINSON, W. B., MOYER, J. C., and KER-TESZ, Z. I. "Thermal maceration" of plant tissue. Plant Physiol. 24: 317-319. Apr. 1949. 450 P692
- 42072 ROSENQUIST, C. E. Effect of drift of 2,4-D spray on Irish potatoes. Amer. Potato J. 26: 80-81. Mar. 1949. 75.8 P842
- 42073 SCHLENKER, F. S. The nitrogen metabolism of spinach (*Spinacia oleracea*): the effect of darkness on certain nitrogen and carbohydrate fractions. Ohio. State U. Abs. Doctoral Diss. (1946/47) 54: 319-326. 1948. 241.8 Oh3
- 42074 SCHRANK, A. R. Influence of longitudinally applied direct current on the electrical polarity and curvature of the *Avena* coleoptile. J. Cell. & Compar. Physiol. 33: 1-16. Ref. Feb. 1949. 444.8 J822
- 42075 SELL, H. M., and others. Changes in chemical composition of the stems of red kidney bean plants treated with 2,4-dichlorophenoxyacetic acid. Plant Physiol. 24: 295-299. Ref. Apr. 1949. 450 P692  
R. W. Luecke, B. M. Taylor, and C. L. Hamner, joint authors.
- 42076 SEYBOLD, A. Zur kenntnis des protochlorophylls. III. Planta 36: 371-388. Ref. 1948. 450 P693
- 42077 SHCHEPOT'EV, F. L. Duration of photoperiodic after-effects in woody plants. (In Russian.) Priroda 37(11): 57-59. Ref. Nov. 1948. 410 P933
- 42078 SHERMAN, F. G., and CHASE, H. B. Effects of ionizing radiations on enzyme activities of yeast cells. I. Relation between anaerobic CO<sub>2</sub> production and colony production at intervals after X-radiation. J. Cell. & Compar. Physiol. 33: 17-25. Ref. Feb. 1949. 444.8 J822



- 42079 SNOW, D. The germination of mould spores at controlled humidities. *Ann. Appl. Biol.* 36: 1-13. Ref. Mar. 1949. 442.8 An72
- 42080 SNYDER, W. E. Some responses of plants to 2,3,5-triiodobenzoic acid. *Plant Physiol.* 24: 195-206. Apr. 1949. 450 P692
- 42081 SØNDERHOUSEN, O. Plant hormones and cooking salt against sprouting of potatoes. (In Danish.) *Gart.-Tid.* 65: 60. Feb. 9, 1949. 80 G192
- 42082 SOSA-BOURDOUIL, C. Sur l'absorption de l'eau par les rameaux de Ginkgo biloba L. *Paris Mus. d'Hist. Nat. (ser. 2)* 20: 427-429. June 1948. 410.9 P213
- 42083 SUGAWARA, T. The sex of plant and vitamin contents. (In Japanese.) *Hort. Assoc. Japan. J.* 17: 204-208. Ref. Dec. 1948. 87 H78  
English summary.
- 42084 TAGUCHI, R. Some physiological changes of *Allium fistulosum* var. *caespitosum* during its growth especially in winter and bulb-formation period. (In Japanese.) *Hort. Assoc. Japan. J.* 17: 59-68. Ref. Mar. 1948. 87 H78
- 42085 THARP, W. H., and others. Yield and composition of cottonseed as influenced by fertilization and other environmental factors. *U. S. D. A. Tech. B.* 974, 153 p. Ref. Feb. 1949. 1 Ag84Te  
J. J. Skinner, J. H. Turner, Jr., R. P. Bledsoe, and H. B. Brown, joint authors.
- 42086 TIMOFEEVA-TIULINA, M. T. Physiological reasons for the lowering of cold resistance in winter crops after thaws. (In Russian.) *Sovet. Agron.* 6(10): 45-51. Oct. 1948. 20 So84
- 42087 TOMBESI, L. Water requirements on rape. (In Italian.) *Ann. della Sper. Agr. (n. s.)* 2: 595-602. 1948. 16 An76  
English summary.
- 42088 TOWERS, B., and HARRISON, G. J. Viability tests of cotton seed. *Calif. Dept. Agr. B.* 38: 25-31. Jan./Mar. 1949. 2 C12M
- 42089 TSCHERMAK-SEYSENEGG, E. Künstlich bewirkte samenbildung ohne befruchtung. *Bodenkultur* 2: 1-9. Ref. 1948. 19 B635
- 42090 ULRICH, R., and ILDIS, P. Influence de la composition de l'atmosphère ambiante sur le développement des bourgeons des tubercules de pomme de terre. *Paris. Acad. des Sci. Compt. Rend.* 228: 766-768. Feb. 28, 1949. 505 P21
- 42091 UMRATH, K. Dornenbildung, blattform und blütenbildung in abhängigkeit von wuchsstoff und korrelativer hemmung. *Planta* 36: 262-297. Ref. 1948. 450 P693
- 42092 VAVILOV, P. Effect of direction of planted rows and of shading on the development and yields of barley and potatoes. (In Russian.) *Moskov. Crdena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Polev. Opytn. Stanf's. Iz Rezul't. Rabot* 1945/46: 87-94. 1948. 64.9 M85
- 42093 VAVILOV, P. Effect of direction of rows on the development and yields of farm crops. (In Russian.) *Sovet. Agron.* 6(7): 77-84. July 1948. 20 So84  
For better utilization of light by plants.
- 42094 VIDAL, H. Les hormones et la viticulture. *Terre* 232: 1, 3. Mar. 24/30, 1949. 281.8 T27
- 42095 VIEITEZ, E., and DIOS, R. Influencia del riego intensivo sobre la composicion química del *Holcus lanatus*, *Lolium multiflorum* y *Poa annua*. *Spain. Inst. Españ. de Edafologia, Ecol. y Fisiol. Veg. An.* 7: 315-342. Ref. May/Aug. 1948. 506 Sp12
- 42096 VIRTANEN, A. I., and HAUSEN, S. S. V. Role of substances formed during germination in the growth of plants. *Nature [London]* 163: 482-483. Mar. 26, 1949. 472 N21
- 42097 WALLACE, T. Some aspects of the mineral nutrition of plants. (Abs.) *Chem. & Indus.* 1949: 207. Mar. 26, 1949. 382 M31C
- 42098 WANG, C. Studies on the void stem disease of sugar cane. (In Chinese.) *Taiwan Sugar J. Q.* 2: 96-113. 1948. 65.8 T13  
English summary.
- 42099 WANNER, H. Die nährsalzaufnahme der pflanzen. *U. Zürich. Inst. f. Allg. Bot. Arb. ser. 4(7)*: 99-121. Ref. June 30, 1948. 451 Z8
- 42100 WANNER, H. Untersuchungen über die temperaturabhängigkeit der salzaufnahme durch pflanzenwurzeln. II. *U. Zürich. Inst. f. Allg. Bot. Arb. ser. 4(8)*: 383-390. 1948. 451 Z8  
English summary.
- 42101 WARING, E. J., WILSON, R. D., and SHIRLOW, N. S. Whiptail of cauliflower; control by the use of ammonium molybdate and sodium molybdate. *Agr. Gaz. N. S. Wales* 60: 21-26. (Concl.) Ref. Jan. 1949. 23 N472
- 42102 WASHKO, W. W. Effect of potassium upon the nitrogen and mineral content of bromegrass. *Agron. J.* 41: 101-103. Ref. Mar. 1949. 4 Am34P
- 42103 WERNER, O. Dauerkontrolle des körperegewichts bei kulturpflanzen. *Hochsch. f. Bodenkultur in Wien. Jahrb. (1947)* 1(2): 95-102. 1948. 105.9 V67J
- 42104 WHITEHEAD, E. I., VIETS, F. G., JR., and MOXON, A. L. Nitrogen distribution in the corn plant. *S. Dak. Agr. Expt. Sta. Tech. B.* 7, 40 p. Ref. June 1948. 100 So82
- 42105 WHITTENBERGER, R. T., and NUTTING, G. C. Effect of phytohormones on potato growth and the size of the starch granules. *Plant Physiol.* 24: 278-284. Ref. Apr. 1949. 450 P692
- 42106 WINOKUR, M. Aging effects in *Chlorella* cultures. *Amer. J. Bot.* 36: 287-291. Ref. Mar. 1949. 450 Am36
- 42107 WOJCIECHOWSKI, J. Comparative investigations on the influence of iron and humus compounds in plants. (Abs.) *Akad. Umiejetności. Wyd. Mat.-Przyrodniczy. Compt. Rend.* 1948(2/3): 11-12. Feb./Mar. 1948. 512 K85C
- 42108 ZARUBAÍLO, T. IÁ., and KISLŪK, M. M. Variability of winter wheat effected through passing the yarovization phase under conditions deviating from the normal ones. (In Russian.) *Selekt. i Semen.* 15(10): 17-25. Oct. 1948. 61.9 Se5

## BIOCHEMISTRY

- 42109 BOOTH, R. G. Some characteristics of the nuclear enzymes of wheat. *Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques* 2: 387-392. Ref. 1948. 389.8 An73  
Discussion, p. 392.
- 42110 CEITHAML, J., and VENNESLAND, B. The synthesis of tricarboxylic acids by carbon dioxide fixation in parsley root preparations. *J. Biol. Chem.* 178: 133-143. Ref. Mar. 1949. 381 J824
- 42111 CHODAT, F. Chimie et génétique des micro-organismes. *Chimia* 3: 53-56. Mar. 15, 1949. 385 C444  
Chiefly Neurospora.
- 42112 COURTOIS, J., and PEREZ, C. Teneur en inositolphosphates, et activité phytasique de diverses graines. *Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques* 2: 393-401. Ref. 1948. 389.8 An73  
Discussion, p. 401-402.
- 42113 DALMA, G., and AMENGUAL, B. M. Los alcaloides del "*Pogonopus tubulosus*" (DC.) Schumann. *Arch. de Farm. y Bioquím. de Tucumán* 4: 59-68. Ref. 1948. 396.8 Ar24  
English summary.
- 42114 DEDONDER, R. Contribution à l'étude de la production d'inulase par *Sterigmatocystis nigra*. *Paris. Acad. des Sci. Compt. Rend.* 228: 941-942. Mar. 14, 1949. 505 P21
- 42115 DELABY, R., BARONNET, R., and GUY, J. La sarothamnine, alcaloïde fixe du genêt à balai (*Sarothamnus scoparius*). *Soc. Chim. de France. B.* 1949: 152-154. Jan./Feb. 1949. 383 P21B
- 42116 DOEBEL, K., and REICHSTEIN, T. Isolierung von drei krystallisierten alkaloiden aus den samen des pfaffenhütchens, *Evonymus europaea* L. *Helvet. Chim. Acta* 32: 592-597. 1949. 385 H36
- 42117 EHRENSVARD, G., and others. Amino acid metabolism in *Torulopsis utilis*. *Cold Spring Harbor Symposia Quantit. Biol.* 13: 81-87. 1948. 442.9 C672C  
G. Höglström, L. Reio, E. Sperber, and E. Saluste, joint authors.
- 42118 ENGSTRÖM, A., and LINDSTRÖM, B. Chlorophorin, a constituent of iroko, the timber of *Chlorophora excelsa*. *Nature [London]* 163: 564-565. Apr. 1949. 472 N21



- 42119 FOSTER, J. W., and DAVIS, J. B. Carbon dioxide inhibition of anaerobic fumarate formation in the mold *Rhizopus nigricans*. Arch. Biochem. 21: 135-142. Ref. Mar. 1949. 381 Ar2
- 42120 GAROGLIO, P. G. Medidas refractométricas para determinar la variación del contenido azucarino en las distintas zonas del grano de uva durante el periodo de madurez. Experimenta 1: 5-19. Ref. Dec. 1948. 475 Ex72  
English, French, and Italian summaries.
- 42121 HENRY, A. J., and GRINDLEY, D. N. *Courbonia virgata*: its chemical composition and basic constituents. Soc. Chem. Indus. J. 68: 9-12. Jan. 1949. 382 M31
- 42122 HERRLINGER, F., and KIERMEIER, F. Inaktivierung und regeneration der peroxydase in wärmebehandelten pflanzengewebe. Biochem. Ztschr. 318: 413-424. Ref. 1948. 384 B522
- 42123 HULME, A. C. Studies in the nitrogen metabolism of the apple fruit. Changes in the nitrogen metabolism of the apple during the normal and ethylene-induced climacteric rise in rate of respiration. Biochem. J. 43: 343-349. 1948. 382 B52
- 42124 KOCZWARA, M. On some plants native to Poland containing saponins. I. (Abs.) Akad. Umiejetności. Wyd. Mat.-Przyrodniczy. Compt. Rend. 1948(4/6): 4-5. Apr./June 1948. 512 K85C
- 42125 KOEPFLI, J. B., MEAD, J. F., and BROCKMAN, J. A., JR. Alkaloids of *Dichroa febrifuga*. I. Isolation and degradative studies. Amer. Chem. Soc. J. 71: 1048-1054. Mar. 1949. 381 Am33J
- 42126 LABORATOIRE DE BIOCHIMIE ET PHYSICOCHIMIE DES CÉRÉALES. Sur l'évolution du contenu du grain de blé de la fécondation à la maturité. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 373-382. 1948. 389.8 An73  
Discussion, p. 382.
- 42127 LOHWAG, K. Die heimischen giftpilze und ihre wirkstoffe. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 145-152. Ref. 1948. 105.9 V67J
- 42128 MITCHELL, H. L. Determination of carotene in sweet potatoes. Plant Physiol. 24: 323-326. Apr. 1949. 450 P692
- 42129 MORGAN, E. N., and BIRKINSHAW, J. H. Volatile metabolic products of *Endoconidiophora coerulea*. Munch. Biochem. J. 43: xxxvii. 1948. 382 B52
- 42130 NAÏM KENT, H. Recherches biochimiques sur les proteines de l'orge. Arch. de Farm. y Bioquím. de Tucumán 4: 5-13. 1948. 396.8 Ar24
- 42131 NARA, S. On inactivity of enzymes induced by blanching and discoloration by drying in cabbages. (In Japanese.) Hort. Assoc. Japan. J. 17: 212-216. Ref. Dec. 1948. 87 H78
- 42132 NEKIPELOVA, I. Selection of non-alkaloid forms of lupine by the quantitative and qualitative method of determining alkaloids. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Sborn. Studen. Nauch.-Issled. Rabot 1948: 87-89. 106 M852Sb
- 42133 PAGAN, C., and LOUSTALOT, A. J. Comparison of chemical values with the toxicological rotenone equivalent of *Derris* and *Lonchocarpus* roots. J. Agr. Res. 78: 197-205. Ref. Apr. 1, 1949. 1 Ag84J
- 42134 PETROSINI, G., and ESCHENA, T. Determination of vitamin C in the presence of hydrojuglone in plant tissues. (In Italian.) Quaderni della Nutr. 10: 320-329. Nov. 1948. 389.8 Q2  
English summary.
- 42135 PHADNIS, K. D., and others. A study of the oils from the seeds of: (1) *Luffa aegyptiaca*, (2) *Beninkasa cerifera* (N. O. Cucurbitaceae) and (3) *Allium cepa* (N. O. Liliaceae). Bombay. U. J., Sect. A, Phys. Sci. 17(3): 62-71. Nov. 1948. 513 B633  
A. V. Rege, D. G. Pishawikar, and S. V. Shah, joint authors.
- 42136 PLOUVIER, V. Sur la présence de pinitol dans quelques légumineuses. Paris. Acad. des Sci. Compt. Rend. 228: 859-861. Mar. 7, 1949. 505 P21
- 42137 ROQUES, H. Sur deux nouveaux hétérosides isolées des semences de Scille. Soc. de Biol. Compt. Rend. 142: 1532-1534. Dec. 1948. 442.9 P21
- 42138 SADANA, J. C., and AHMAD, B. Carotenoid pigments of common Indian fruits. J. Sci. & Indus. Res. 8B: 35-39. Ref. Feb. 1949. 475 J82
- 42139 SMIRNOVA, G. A. Analysis of some field crops [forage] and their varieties for ascorbic acid and carotene content. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Polev. Opytn. Stantš. Iz Rezul't. Rabot 1945/46: 195-207. 1948. 64.9 M85
- 42140 STAWOWCZYK, A. Teneur en essences de moutarde et d'ail de certaines plantes de Pologne. (Abs.) Akad. Umiejetności. Wyd. Mat.-Przyrodniczy. Compt. Rend. 1948(2/3): 4-5. Feb./Mar. 1948. 512 K85C
- 42141 WERLE, E., and ZABEL, A. Über die verbreitung der histaminase im pflanzenreich. Biochem. Ztschr. 318: 554-559. 1948. 384 B522
- 42142 WERLE, E., and RAUB, A. Über vorkommen, bildung und abbau biogener amine bei pflanzen unter besonderer berücksichtigung des histamins. Biochem. Ztschr. 318: 538-553. Ref. 1948. 384 B522

## FIELD CROPS

Includes articles on general agronomy and on crop varieties, breeding, cultural practices, and yield.

## General

- 42143 ARSENAULT, L. Une semence saine dans une terre saine. Foyer Rural [Montréal] 8(6): 6. Mar. 1949. 7 F83  
Field crops and vegetables.
- 42144 BRÉTIGNIÈRE. Les résultats de la ferme extérieure de Grignon de 1920 à 1948. Acad. d'Agr. de France 35: 57-60. Jan. 19/26, 1949. 14 P215Bc  
Chiefly field crops.
- 42145 FENGER, E. Two crops a year. (In Danish.) Dansk Landbr. 68: 155-156. Mar. 24, 1949. 280.28 V91
- 42146 FERGUS, E. N., HAMMONDS, C., and ROGERS, H. Southern field crops management. Chicago, Lippincott, 1949. 725 p. Ref. 64 F38S
- 42147 GRANHALL, I. Various crops. In Akerman, Å., ed. Svalöf 1886-1946, p. 249-257. Lund, Blom, 1948. 61.9 AL5  
Field crops.
- 42148 HAUCK. Was ist hochzuchtsaatgut? Bad. Landw. Wehbl. 116: 35. Jan. 22, 1949. 18 B142
- 42149 HAYES, H. K., and others. Varietal trials of farm crops. Minn. Agr. Expt. Sta. Misc. Rpt. 6, 19 p. Feb. 1949. 100 M66  
E. R. Ausemus, J. O. Culbertson, J. W. Lambert, and R. G. Robinson, joint authors.
- 42150 HORNE, F. R. Spring choice. Farmers Weekly [London] 30(5): 47. Feb. 4, 1949. 10 F2226  
A guide in seed selection.
- 42151 ĀKUSHKIN, I. V. Sevooborot i ego znachenie v podnftatii urozhaŭnosti [Crop rotation and its importance in increasing productivity]. Moskva, "Molodaja Gvardiia," 1948. 44 p. (Agronomicheskie Besedy. 9) 64 Ia5S
- 42152 IDAHO CROP INSURANCE ASSOCIATION, INC. Seed sources of Idaho certified alfalfa, clovers, grasses, beans, barley, oats, wheat, onions, potatoes for 1949 plantings. 1949. 79 p. 225 Id1
- 42153 INSTITUT NATIONAL POUR L'ÉTUDE AGRONOMIQUE DU CONGO BELGE. Rapport annuel pour l'exercice 1947. Gembloux, 1948. 217 p. 24 In7R
- 42154 JUSTESEN, S. H. Quasi-factorial design of field-experiments with large numbers of treatments. (In Dutch.) East Indies (Dutch) Alg. Proefsta. v. Landb. Meded. 81, 31 p. 1948. 109.5 Ea73  
English summary.
- 42155 KVACHEV, P., and KOT, V. Distribution of [field] crops in Krasnodar region. (In Russian.) Selek. i Semen. 15(10): 52-55. Oct. 1948. 61.9 Se5
- 42156 LINSLEY, C. M. Better land use increases profits. Pacemaker 7(8): 4. Apr. 15, 1949. 280.28 P113  
Crop rotation.
- 42157 LOUISIANA. AGRICULTURAL EXPERIMENT STATION. CROPS AND SOILS DEPT. A preliminary report on experiments conducted, 1948. Baton Rouge, 1949? 83 p. 100 L936  
Experiments with field crops.



- 42158 MOSCOW. TIMIRIAZEVSKAIA SEL'SKOKHOZ-ZIAISTVENNAIA AKADEMIIA. POLEVAIA OPYTNAIA STANTSIIA. Iz rezul'tatov rabot Polevoi opytnoi stan-tsii za 1945-1946 gg. [Results of research at the Polevaya Opytnaya Stanstsiia during 1945/1946]. Moskva, 1948. 236 p. 64.9 M85
- 42159 NIESER, O. Einwandfreies saatgut? Ceres [Hamburg] 1948(5/6): 13-14. 80 C332
- 42160 NORGAARD, U. J., and others. South Dakota crop varieties, recommendations and descriptions. S. Dak. State Col. Agr. Ext. C. 449, 16 p. Feb. 1949. 275.29 So85
- E. E. Sanderson, J. E. Grafius, C. J. Franzke, D. B. Shank, M. W. Adams, V. A. Dirks, J. G. Ross, and W. W. Worzella, joint authors.
- 42161 SMIRNOV, F. All-Union Conference on the Grassland System of Agriculture. (In Russian.) Selek. i Semen. 15(9): 71-73. Sept. 1948. 61.9 Se5
- 42162 STEPANOV, B. N. Field work and weather conditions. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Plev. Opytn. Stanf's. Iz. Rezul't. Rabot 1945/46: 5-14. 1948. 65.9 M85
- 42163 SWANSON, H. B. Crops, triumph of the plant breeders. Farmer [St. Paul], Gen. Ed. 67(7): 31-35. Apr. 2, 1949. 6 F2211
- Field crops.
- 42164 TEJADA ARGUELLO, J. A. La pobreza de cosechas como consecuencia de falta de rotación en los cultivos. Rev. de Agr. [San José] 21: 115-117. Mar. 1949. 8 Es1
- 42165 TODARO, F. Brief notes on harvesting the crops. (In Italian.) Coltivatore e Gior. Vinic. Ital. 95: 3-4. Jan. 15, 1949. 16 C72
- 42166 WHITTEN, H. Quality field crops need quality seed. M. P. G. News 3(7): 5-6. Feb. 1949. 75.8 M11
- 42167 WITTICH, W. Landwirtschaftliche zwischen-nutzung im walde als meliorationsmittel und hilfe für die ernährung, dargestellt am beispiel des nordwestdeutschen waldgebietes. Hannover, Schaper, 1948. 50 p. 56.6 W78
- Chiefly field crops.
- 42168 WOLFE, H. H., and GARDNER, C. O. Crop varieties in Nebraska. Neb. Agr. Col. Ext. C. 100, rev. 59 p. Mar. 1949. 275.29 N272Ex
- Cereals
- 42169 ADAMS, G. H. No magic needed for 100-bu. corn. Irrig. Farmer 6(11): 1, 16. Mar. 3, 1949. 55.8 Ir78
- 42170 AKERBERG, E. Conditions of cultivation and breeding problems for cereals and herbage plants in Nörrland. In Åkerman, Å., ed. Svalöf 1886-1946, p. 278-303. Ref. Lund, Blom, 1948. 61.9 AL5
- 42171 ÅKERMAN, Å. The breeding of oats. In Åkerman, Å., ed. Svalöf 1886-1946, p. 98-112. Ref. Lund, Blom, 1948. 61.9 AL5
- 42172 ÅKERMAN, Å. The breeding of wheat. In Åkerman, Å., ed. Svalöf 1886-1946, p. 72-97. Ref. Lund, Blom, 1948. 61.9 AL5
- 42173 ARTEAGA Y ORTEGA, J. Incrementación y mejoramiento de la producción de arroz. Agronomía [Habana] 9: 6-12, 26. Jan. 1949. 8 C893
- 42174 BEARD, D. Importance of adaptable crop varieties. Grain & Feed J. Consolidated 102(5): 22. Mar. 9, 1949. 298.8 G762
- Grain and forage crops.
- 42175 BERG, M., and OTTOSSON, L. Combining grain at a low moisture content; an investigation of the moisture content of grain during the harvesting season 1948. (In Swedish.) Jordbrukstek. Inst. Meddel. 223, 57 p. Ref. 1949. 58.9 J762
- English summary.
- 42176 BLÉS semés tardivement. Acad. d'Agr. de France 35: 93-95. Feb. 2/9, 1949. 14 P215Bc
- With an introduction by M. Piettre.
- 42177 BLOOMFIELD, H. Big [corn] yields are made deep underground. Country Gent. 119(4): 23, 145-148. Apr. 1949. 6 C833
- 42178 BOMPARD, A. Les variétés de riz cultivées en Camargue. Bouches du Rhone Agr. 22(998): 3. Mar. 15, 1949. 14 B662
- 42179 BRENTZEL, W. E. Treating seed wheat in-creases yields. N. Dak. Seed J. 18: 3. Mar. 1949. 61.8 N81
- 42180 BROOKS, J. S., CHESSMORE, R., and PASS, H. Oklahoma corn performance tests; summary: 1946, 1947 and 1948. Okla. Agr. Expt. Sta. B. B-327, 14 p. Feb. 1949. 100 Ok4
- Variety tests.
- 42181 BURNETT, L. C. Sow oats early. Iowa Farm Sci. 3(9): 10. Mar. 1949. 275.28 Io94
- 42182 BUSTARRET, J. État actuel de l'amélioration du blé en France. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 275-285. 1948. 389.8 An73
- Discussion, p. 285.
- 42183 CARRA, GUEIT, and LEPROUT. Observations sur un essai de comportement du riz au Jardin d'Essai. Rev. Hort. de l'Algérie 53: 33-36. Jan. 1949. 87 R32
- 42184 CHAVEZ VIAUD, A. Indicaciones generales sobre los nuevos maicillos Shallu, Hegari, Grohoma y otros de crecimiento rápido. Café de El Salvador 30: 1175-1177. Jan. 1949. 68.28 C112
- 42185 CHERNOMAZ, P. A. Cultural practices for the production of high yields of millet. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Ti-miriazeva. Plev. Opytn. Stanf's. Iz. Rezul't. Rabot 1945/46: 222-226. 1948. 64.9 M85
- 42186 CHIAPPELLI, R. Rice seed competition in 1948. (In Italian.) Riscicoltura 37: 29-37. Feb. 1949. 59.8 G43
- 42187 CLAUZEL, M. La riziculture française. Agriculture [Paris] 13: 33, 35, 37-38. Feb. 1949. 14 Ag823
- 42188 CORNELL UNIVERSITY. DEPT. OF PLANT BREEDING. Maize genetics coöperation news letter, 23, March 10, 1949. Ithaca, N. Y., 1949. 78 p. 59.9 C813
- 42189 COTTE, A. Essais de sorghos. Prog. Agr. et Vitic. 1949: 109-114. (Cont.) Feb. 20/27, 1949. 14 P94
- 42190 CRAM, B. Une culture de printemps: le maïs fourrage. Unité Paysanne 4(179): 1, 4. Apr. 9, 1949. 14 Un3
- 42191 DEHART, P. H. 100 bushels of corn to the acre. South. Planter 110(3): 20-21. Mar. 1949. 6 So89
- 42192 DELEAU, J. Non! il ne faut pas importer de blés étrangers. Producteurs, cela dépend de vous. Prog. Agr. et Vitic. 1949: 163-164. Mar. 20/27, 1949. 14 P94
- 42193 DELEAU, J. Perspectives d'amélioration de la production du blé vues par les producteurs. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 287-293. 1948. 389.8 An73
- Discussion, p. 293.
- 42194 DENOY, LACHAVANNE, and DENAMUR. La riziére expérimentale du Merle en 1948. Prog. Agr. et Vitic. 1949: 149-157. (Cont.) Mar. 20/27, 1949. 14 P94
- 42195 DOWN, E. E. Two new varieties of oats for Michigan. Mich. Agr. Expt. Sta. Q. B. 31: 263-265. Feb. 1949. 100 M58S
- 42196 EASTERN SOFT WHEAT IMPROVEMENT CONFERENCE. Tenth conference, held at Cincinnati, Ohio, November 18-20, 1947. Beltsville, Md., 1948. 15 p. 59.9 Ea7
- 42197 ELDREDGE, C. J. Better popping popcorn. Iowa Farm Sci. 3(9): 6-7. Mar. 1949. 275.28 Io94
- 42198 ENGELHARD, J. Une exploitation extraordi-naire: 245.000 hectares dans le Montana. Rustica 22: 192-193. Mar. 6, 1949. 14 R92
- Grain.
- 42199 ERASMUS, J. C. Cultivation of winter grain. (In Afrikaans.) Landbouweekblad 30(1549): 43. Mar. 23, 1949. 24 L232
- 42200 FABBRI, Spring crops. (In Italian.) Agr. Romagn. 1949(6): 2. Mar. 20, 1949. 16 Ag828
- Corn and sugar beet culture.
- 42201 FREY, K. J. Barley Varieties. Mich. Farmer 211: 273. Apr. 2, 1949. 6 M58
- 42202 GENTER, C. F. How to choose the right [corn] hybrid. South. Planter 110(3): 24-25. Mar. 1949. 6 So89



- 42203 GLASOW, W. Arbeitsverfahren in der getreideernte. *Landtechnik* 4: 97-100. Feb. 28, 1949. 58.8 L235
- 42204 GOSI, L. Early corn. (In Italian.) *Gior. di Agr.* 59: 78. Mar. 6, 1949. 16 It1G
- 42205 GRILLOT, G. Etat actuel de l'amélioration du blé tendre au Maroc. *Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques* 2: 309-313. 1948. 389.8 An73
- 42206 HAAN, H. DE. Barley improvement in the United States. (In Dutch.) *Natl. Com. v. Brouwerst. Jaarb.* 1949: 57-67. 390.9 N21
- 42207 HARING. Zur frage des saathafer! *Württemberg. Wchnbl. f. Landw.* 116: 141. Mar. 12, 1949. 18 W96
- 42208 HARTZ, G. Dreschverluste. *Deut. Bauern-tech.* 2(10/11): 31-32. Oct./Nov. 1948. 58.8 D48
- 42209 HUBER, L. L. A corn is only as good as its roots. *East. States Coop.* 25(3): 8-9. Mar. 1949. 280.28 Ea7
- Hybrid corn.
- 42210 HUET, G. La riziculture traditionnelle en Cochinchine. *Agron. Trop.* 4: 25-49. Jan./Feb. 1949. 26 Ag86
- 42211 HUTCHESON, T. B. Get in the race for 100 bushels corn per acre! *Prog. Farmer, Car.-Va. Ed.* 64(4): 15, 119. Apr. 1949. 6 P945
- 42212 ISECKE, E. Experiments with hybrid corn in Germany. *Seed Trade News* 52(13): 6. Mar. 30, 1949. 61.8 Se3
- 42213 JUNCKER, F. Experiences with corn culture at Overgaard 1948. (In Danish.) *Tidsskr. for Landøkonomi* 1949: 113-128. Mar. 1949. 11 T43
- 42214 KRICKL, M. Ist reiskultur in Österreich möglich und wirtschaftlich? *Bodenkultur* 2: 188-208. Ref. 1948. 19 B635
- 42215 LAGOS U., J. A. Cultivo del maíz: híbrida-ción y selección. *Rev. de Agr. [San José]* 21: 119. Mar. 1949. 8 Es1
- 42216 LARSEN, L. J. Danish buckwheat. (In Danish.) *Dansk Landbr.* 68: 119. Mar. 3, 1949. 280.28 V91
- 42217 LHUILIER, A. La culture du seigle dans le nord de la Tunisie. *Colon Franç. de Tunisie* 58(2070): 1. Oct. 23, 1948. 24 C712
- 42218 LJUNG, E. W. The rye breeding work of the Seed Association. In Åkerman, Å., ed. *Svalöf 1886-1946*, p. 127-134. Lund, Blom, 1948. 61.9 AL5
- 42219 LUK'IANŪK, V. I. Spring wheat in the experiments of the Plevafā Opytnāfā Stanfāfā. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfāzeva. Plev. Opytn. Stanfā. Iz Rezul't.* Rabot 1945/46: 52-66. 1948. 64.9 M85
- 42220 LUK'IANIUK, V. I. Winter wheat in the experiments of the Plevafā Opytnāfā Stanfāfā. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfāzeva. Plev. Opytn. Stanfā. Iz Rezul't.* Rabot 1945/46: 15-31. 1948. 64.9 M85
- 42221 MCCANN, J. M. Walpeup Wheat Crop Competition. *Victoria. Dept. Agr. J.* 47: 57-61. Feb. 1949. 23 V66J
- 42222 MARTIN, J. H. El clima y el sorgo. *Aberdeen Angus [Buenos Aires]* 1949: 33-36. Summer 1949. 43.8 Ab33
- 42223 MIÈGE, E. La culture du sarrasin. *Inform. Maroc.* 408: 1, 4. Nov. 6, 1948. 281.8 In3
- 42224 MILLER, W. B. Recommended cereal varieties. *Victoria. Dept. Agr. J.* 47: 62-66. Feb. 1949. 23 V66J
- 42225 MILLIMAN, T. E. Public seed corn trials. *G. L. F. Week. Serv. Sched.* 13(44): 1, 4. (To be cont.) May 2, 1949. 280.28 G113W
- 42226 MISSISSIPPI AGRICULTURAL EXPERIMENT STATION. Dixie 11 and Dixie 17 lead in corn variety tests. *Miss. Farm Res. [Miss. Sta.]* 12(3): 2-3, 7. Mar. 1949. 100 M69Mi
- U. S. Bureau of Plant Industry, Soils, and Agricultural Engineering cooperating.
- 42227 MOKROV, S. V. Effect of pollen quantity on selective pollination of rye. (In Russian.) *Agrobiologiya* 1948(4): 139-142. July/Aug. 1948. 20 Ag822
- 42228 MONTGOMERY, G. A. Wheat rates better than stepchild treatment. *Capper's Farmer* 60(4): 18, 64. Apr. 1949. 6 M693
- Varieties and diseases.
- 42229 MOROCCO. SERVICE DE LA RECHERCHE AGRONOMIQUE ET DE L'EXPERIMENTATION AGRICOLE. L'amélioration du maïs. Rabat, 1948. 127 p. Ref. 59.22 M82
- Page 1-33, by G. Grillo; page 35-76, by H. Botton; page 77-127, by G. F. Sprague.
- 42230 MORRIS, V. H. The relation of protein content to quality characteristics of soft wheats. *East. Soft Wheat Impr. Conf.* (1947) 10: 6-12. 1948. 59.9 Ea7
- 42231 MURPHY, H. C. There'll be more new oats. *Right Off Cob* 4(3): 11-12. Spring 1949. 59.8 R44
- 42232 NILSSON-EHLE, H. The future possibilities of Swedish barley breeding. In Åkerman, Å., ed. *Svalöf 1886-1946*, p. 113-126. Lund, Blom, 1948. 61.9 AL5
- 42233 NORRIS, M. J., and DUDLEY, D. I. Denton corn performance tests, 1944-48. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1152, 2 p. Mar. 7, 1949. 100 T31P
- 42234 PENDLETON, J. W., and others. Spring oats—varieties for Illinois. *Ill. Agr. Col. Ext. C.* 638, 4 p. Mar. 1949. 275.29 IL62C
- G. H. Dungan, C. T. Bonnett, and G. E. McKibben, joint authors.
- 42235 PERCY, J. F. Research puts hybrid corn on southern acres. *Better Farming Methods* 21(5): 15. May 1949. 58.8 B46
- 42236 PETROSINI, G., and LEONE, G. Influence of "variety" and mineral fertilization on production and nutritive value of grain. (In Italian.) *Quaderni della Nutr.* 10: 302-319. Ref. Nov. 1948. 389.8 Q2
- English summary.
- 42237 PIACCO, R. The spread of rice culture in the North. (In Italian.) *Risicoltura* 37: 68-72. Mar. 1949. 59.8 G43
- 42238 POHJAKALLIO, O., and SALONEN, A. Über den einfluss von erbsen auf die trockensubstanzerzeugung von hafer in erbsen-hafer-mischbestand. (In Finnish.) *Suomen Maataloustiet. Seura, Maataloustiet. Aikakausk.* 20: 143-156. Ref. 1948. 20 Su7M
- 42239 RICHEY, F. D., and MARTIN, J. L. La culture du maïs. III. *Colon Franç. de Tunisie* 58(2070): 1, 3, 4. Oct. 23, 1948. 24 C712
- 42240 RODIONOV, A. D., and MUSIŪKO, A. S. Effect of tassel removal on the increase of corn productivity. (In Russian.) *Agrobiologiya* 1948(4): 142-144. July/Aug. 1948. 20 Ag822
- 42241 ROGERS, J. S. Hybrid corn for Texas. *Tex. Livestock J.* 8(2): 82-83. Feb. 15, 1949. 49 T29
- 42242 SARRABAY, J. Les ressources agricoles de la région de Blida; les cereales. *Rev. Agr. de l'Afrique du Nord* 47: 26-28. Jan. 14, 1949. 80 R326
- 42243 SASKATCHEWAN CO-OPERATIVE PRODUCERS LIMITED. Junior co-operative variety tests. Wheat, oats, barley and crop comparison. Regina, 1949. 64 p. 59.9 Sa74J
- 42244 SCHAD, G. L'amélioration du seigle. *Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques* 2: 337-352. 1948. 389.8 An73
- Discussion, p. 352-353.
- 42245 SERVISS, G. H. Current crop facts—growing corn. *G. L. F. Week. Serv. Sched.* 13(43): 1, 3. Apr. 25, 1949. 280.28 G113W
- 42246 SHANK, D. B. 1948 corn performance tests. *S. Dak. Agr. Expt. Sta. C.* 76, 18 p. Feb. 1949. 100 So82
- 42247 SINEV, A. K. Effect of planting norms on yields and quality of spring wheat and barley seeds. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfāzeva. Plev. Opytn. Stants. Iz Rezul't.* Rabot 1945/46: 83-86. 1948. 64.9 M85
- 42248 SKATIN, I. D. The variety concept of an agricultural plant. (In Russian.) *Selekt. i Semen.* 15(10): 39-43. Oct. 1948. 61.9 Se5
- Wheat used as an illustration.
- 42249 SOLDANI, R. Ten cum laudes to American hybrid corn. (In Italian.) *Agr. in Prov. di Varese* 21(5/6): 2. Mar. 8, 1949. 16 Ag8265
- 42250 STABLER, S. P. Grow a good corn crop. *Md. Farmer* 33(3): 13, 25. Mar. 1949. 6 M362



- 42251 SUMMERS, E. Procedimiento eficaz y simple para obtener semilla selecta de maíz. Suelo Tico 1: 292-294. Nov. 1948. 8 Su2
- 42252 TALLARICO, G. Corn and potatoes compared. (In Italian.) Terra e Sole 79: 80-81. Mar. 1949. 16 T273
- 42253 THIBAU, C. E. Culture of wheat in the State of Minas Gerais. (In Portuguese.) Chacaras e Quintais 79: 343-344. Mar. 15, 1949. 9.2 C34
- 42254 TINDALL, C. Easy to grow 100-bushel corn. Mo. Ruralist 90(6): 10-11. Mar. 26, 1949. 6 R8891
- 42255 TVERDOVSKIĬ, V. Seed supplies of the Soviet Union. (In Russian.) Interagra 2: 326-329. 1948. 28 In825  
English summary.  
Cereal varieties.
- 42256 VALDEYRON, G., and SEGUALA, J. État actuel de l'amélioration des blés en Tunisie. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 315-318. 1948. 389.8 An73
- 42257 VIÉGAS, G. P. Hybrid corn in São Paulo. (In Portuguese.) Rev. Rural Bras. 29(340): 38-40. Feb. 1949. 9.2 B733
- 42258 VILMORIN, M. DE. La création des blés d'automne de bonne qualité boulangère. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 295-298. 1948. 389.8 An73
- 42259 VITRAC, E. La force boulangère des blés dans la sélection. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 299-307. 1948. 389.8 An73
- 42260 WALLACE, H. A., and BRESSMAN, E. N. Corn and corn growing. Ed. 5, rev. by J. J. Newlin, E. Anderson, and E. N. Bressman. New York, Wiley, 1949. 424 p. Ref. 59.22 W152
- 42261 WATSON, S. A. An agronomic and biochemical comparison of four strains of corn which differ widely in total grain nitrogen. Urbana, Ill., 1949. 7 p. 59.22 W332  
Abstract of thesis—University of Illinois.
- 42262 WILTEN, W. Field tests in 1948. (In Dutch.) Natl. Com. v. Brouwerst. Jaarb. 1949: 89-96. 390.9 N21  
Barley.
- 42263 WILTEN, W. Yields, breed statistics, and breed properties of brewing barley. (In Dutch.) Natl. Com. v. Brouwerst. Jaarb. 1949: 97-105. 390.9 N21
- 42264 WINTER WHEAT INSTITUTE. Sixth annual report on winter wheat improvement in Ontario, 1948 crop. Guelph, Ont., 1949. 33 p. 59.9 On82A
- 42265 WOLFE, H. H. Producing high corn yields. Nebr. Agr. Col. Ext. E. C. 114, rev., 30 p. Feb. 1949. 275.29 N272Ex  
Nebraska Corn Yield Contest.
- Fiber Crops**
- 42266 ANGLADETTE, A. Le développement de la culture du jute en Indochine de 1941 à 1944. Agron. Trop 3: 594-629. Nov./Dec. 1948. 26 Ag86
- 42267 BALDINGER, J. Les plantes à fibres. Rev. Internatl. des Prod. Colon. 24: 27-29, 31-32, 37. Feb. 1949. 286.8 R326
- 42268 BROWN, C. H. Menoufi and Karnak. Egypt. Cotton Gaz. 6: 27-33. Jan. 1949. 72.8 Eg9
- 42269 BROWN, C. H. A pedigree system of seed control. Egypt. Cotton Gaz. 6: 35-38. Jan. 1949. 72.8 Eg9
- 42270 CHENG, K. S. A preliminary study of the variation in staple length of the "tree-cotton" in Yunnan. Yu-Yun Cotton Sta. B. 3, 6 p. Aug. 1948. 72.9 Y9
- 42271 COOK, L. J. Experiments on flax growing, in South Australia, 1941-47. So. Austral. Dept. Agr. J. 52: 222-224. Dec. 1948. 23 So84
- 42272 CRAM, B. La culture du lin. Unité Paysanne 4(178): 1, 4. Apr. 2, 1949. 14 Un3
- 42273 FORTIN, D. Étude des rendements obtenus dans la production de lin du Québec. Agriculture [Montréal] 5: 349-358. Dec. 1948. 7 Ag82
- 42274 GAFFAR, M. A. An outline of the hybridization technique employed at Giza. Egypt. Cotton Gaz. 6: 39-47. Jan. 1949. 72.8 Eg9
- 42275 GRANHALL, I. Flax and hemp. In Akerman, Å., ed. Svalöf 1886-1946, p. 184-197. Lund, Blom, 1948. 61.9 AL5
- 42276 HARTARD EBERT, M. Nuestros cultivos y cosechas de cañamo. Campesino [Santiago] 81: 9. Jan. 1949. 9.3 So12
- 42277 HAWKINS, B. S., and others. Cotton variety tests in Georgia, 1946-48. Ga. Agr. Expt. Sta. C. 159, 11 p. Mar. 1949. 100 G292  
T. E. Steele, W. W. Ballard, and S. V. Stacy, joint authors.
- 42278 JOLY, R. L. Observations sur la production du sisal dans l'Union Française. Rev. Internatl. des Prod. Colon. 24: 36-37. Feb. 1949. 286.8 R326
- 42279 JUMELLE, H. Cultures coloniales plantes textiles. Colon Franç. de Tunisie 58(2070): 1, 2. (To be cont.) Oct. 23, 1948. 24 C712  
Varieties.
- 42280 KHADILKAR, T. R. Some note-worthy observations in Khandesh cotton. Poona Agr. Col. Mag. 39: 49-52. Nov. 1948. 22 P79
- 42281 LEIZ, Haltet am flachsbau fest! Württemb. Wchnbl. f. Landw. 116: 110-111. Feb. 26, 1949. 18 W96
- 42282 NELSON, W. L., and WELCH, C. D. Many phases of production must be considered in securing high cotton yields. Natl. Joint Com. Fert. Appl. Proc. 24: 131-132. 1948. 57.9 N216
- 42283 OAKLEY, J. W. Cotton—plant certified seed, sell certified lint. Prog. Farmer, Miss.-Ark.-La. Ed. 64(3): 126, 132. Mar. 1949. 6 So81
- 42284 OLLEA, D. E. Gaceta Algodonera ha cumplido 25 años de existencia y de propaganda del algodón en el país. Gac. Algodonera 25(301): 1-5. Feb. 28, 1949. 72.8 G11  
Argentina.
- 42285 REAGAN, A. B. Cotton of the ancient Hopi-pueblos. Desert Plant Life 21: 43-45. Mar. 1949. 450 D45
- 42286 SHERA, F. Kenaf looms as potential fiber. Cord Age Mag. 51(3): 8, 10. Mar. 1949. 73.8 C812
- 42287 TAYLOR, H. Paula cotton, Missouri's baby. Mo. Ruralist 90(5): 34-35. Mar. 12, 1949. 6 R8891
- 42288 TURNER, J. H., JR. Introducing Pandora cotton for the Georgia Coastal Plain. Ga. Coastal Plain Agr. Expt. Sta. C. 12, 8 p. Dec. 1948. 100 G292
- 42289 WOODLE, H. A. A bale on every acre; South Carolina expects to follow these 32 rules to reach that goal. Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(3): 17, 125. Mar. 1949. 6 P945G
- Forage Crops and Grasses**
- 42290 AGOR, N. Caution patrons birdsfoot trefoil needs good land, fertilizer. G. L. F. Week. Serv. Sched. 13(40): 4. Apr. 4, 1949. 280.28 G113W
- 42291 ANDRIBET, P. Les luzernes en 1948. Agr. Charentais (n. s.) 3(3): 1. Apr. 1948. 14 Ag825  
Culture.
- 42292 ARBEITSGEMEINSCHAFT ZUR FÖRDERUNG DES FUTTERBAUES. Tätigkeitsbericht für das Jahr 1948. Arbeitsgemeinsch. zur Förderung des Futterbaues. Mitt. 33, 58 p. 1948. 60.9 Ar1  
Switzerland.
- 42293 BAILEY, R. Y. New legumes and grasses. Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(4): 120. Apr. 1949. 6 P945G
- 42294 BARROWS, G. E. Kersey white, a new strain of white clover. Gt. Brit. Min. Agr. Agriculture 55: 522-523. Mar. 1949. 10 G79J
- 42295 BERNARD, P. La role des fourrages dans les assolements. Monit. Agr. 2(63): 2. Mar. 27, 1949. 14 M744
- 42296 BLANCO GONZALEZ, T. Cultivos forrajeros. La alfalfa. Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad. 6(61): 6-9. (To be cont.) Oct. 1948. 15 B14
- 42297 BLASER, R. E., and others. Carpet grass and legume pastures in Florida; their growth, composition and contribution to beef production. Fla. Agr. Expt. Sta. B. 453, 36 p. Dec. 1948. 100 F66S  
R. S. Glasscock, G. B. Killinger, and W. E. Stokes, joint authors.



- 42298 BRESAOLA, M. Per la produzione foraggera. Le sementi nella legge e nei metodi ufficiali di analisi [For forage production. Official seed analysis and legal aspects]. Ann. della Sper. Agr. (n. s.) 2(1, sup.), 19 p. 1948. 16 An76  
English summary.
- 42299 BRESAOLA, M. La produzione foraggera nell'attività sperimentale [The production of forage in experimental activity]. Ann. della Sper. Agr. (n. s.) 2(4, sup.), 48 p. 1948. 16 An76  
English summary.
- 42300 COOK, L. J. Lucerne at Keith. So. Austral. Dept. Agr. J. 52: 216-218. Dec. 1948. 23 So84
- 42301 COOK, L. J. Lucerne in the Mid-North of South Australia. So. Austral. Dept. Agr. J. 52: 211-215. Dec. 1948. 23 So84
- 42302 COSLINE, H. L. For grass silage, pasture or chopped hay we like birdsfoot [trefoil]. Amer. Agr. 146: 161, 176. Mar. 19, 1949. 6 Am3
- 42303 COSSETTE, M. Le trèfle ladino n'est plus une intrigue pour le cultivateur. B. des Agr. 45(3): 11, 46. Mar. 1949. 7 B872
- 42304 DONALDSON, R. W. Green pastures. Mass. Farm. Bur. Mass. 1949: 5-7. Mar. 1949. 275.293 Mass. The Green Pastures Program in New England.
- 42305 DUNTON, H. L. Try some good pasture. South. Planter 110(3): 22, 30. Mar. 1949. 6 So89
- 42306 DURHAM, S. Pasture planning is a part of the farm program. Farm & Ranch 68(4): 46-47. Apr. 1949. 6 T31
- 42307 ELAM, F. L. First year care of permanent pastures. West. Livestock J. 27(22): 31, 44, 46, 48. Mar. 15, 1949. 6 F2278
- 42308 ERICKSON, M. Farming with grass. Dak. Farmer 69(6): 5, 59. Mar. 19, 1949. 6 D14
- 42309 EVANS, M. W. Hopkins, a new timothy variety. Farm & Home Res. [Ohio Sta.] 34(256): 8-9. Jan./Feb. 1949. 100 Oh3S
- 42310 FABIANI, L. Mixed pastures, or more precisely, pastures with many types of plants. (In Italian.) Campagna 48: 41-42. Feb. 1, 1949. 16 C152
- 42311 FLEMING, R. A new method for reseeding desert range. Crops & Soils 1(6): 6-9. Mar. 1949. 6 W55
- 42312 FORD, W. H. Still more about Ladino clover. Gleanings Bee Cult. 76: 679. Nov. 1948. 424.8 G47  
As honey plant.
- 42313 FREDERIKSEN, H. Importance of planning of forage plant culture. (In Danish.) Dansk Landbr. 68: 150-153. Mar. 24, 1949. 280.28 V91
- 42314 GRANDFIELD, C. O. Eliminate guesswork in alfalfa seed production. Crops & Soils 1(6): 21-22. Mar. 1949. 6 W55
- 42315 GRANDY, D. D. Reseeding makes the difference; Utah rancher and son adopt newest grass management, conservation methods to double the forage on their reseeded range land. West. Livestock J. 27(22): 34, 60. Mar. 15, 1949. 6 F2278
- 42316 GROSS, D. L. Alfalfa in Nebraska. Nebr. Agr. Col. Ext. E. C. 183, 14 p. Jan. 1949. 275.29 N272Ex
- 42317 HANSEN, H. H. A few words on alfalfa culture. (In Danish.) Dansk Landbr. 68: 153-154. Mar. 24, 1949. 280.28 V91
- 42318 HANSON, A. A. The improvement of permanent pastures. Agriculture [Montreal] 5: 336-348. Ref. Dec. 1948. 7 Ag82
- 42319 HAUGERUD, H., SKATVEDT, K., and VETHE, K. Kale. (In Norwegian.) Norsk Landbr. 15: 106-109. Mar. 18, 1949. 11 N8122
- 42320 HAUSSMANN, G. Single or many crop pastures in the irrigated Lombardy lowlands? (In Italian.) B. dell'Agr. 83: 1-2. Jan. 29, 1949. 16 B87
- 42321 HEADY, H. F. Methods of determining utilization of range forage. J. Range Mangt. 2: 53-63. Ref. 60.18 J82
- 42322 HODGES, E. M., and JONES, D. W. Grass on Southern Florida sand. II. Fla. Cattleman 13(6): 18, 20-21. Mar. 1949. 43.8 F66
- 42323 HODSON, E. A. Sericea; plant it this spring. Prog. Farmer, Miss.-Ark.-La. Ed. 64(4): 15, 129. Apr. 1949. 6 So81
- 42324 HODSON, E. A. Suiter's fescue. Ark. Farmer 51(3): 7. Mar. 1949. 6 Ar42
- 42325 HORÁK, O. Will our pasturage be overdimensioned? (In Czech.) Družstevní Rev. 2: 214-216. Mar. 1949. 280.28 D84  
English summary.
- 42326 HUGHES, H. D., and HEATH, M. E. Birdsfoot trefoil for permanent pastures. Iowa Farm Sci. 3(9): 3-6. Mar. 1949. 275.28 Io94  
Also in Aberdeen-Angus J. 30(9): 43, 80, 82. Apr. 1949. 43.8 Ab3
- 42327 HUMPHREY, R. R. A proposed reclassification of range forage types. J. Range Mangt. 2: 70-82. Apr. 1949. 60.18 J82
- 42328 HULL, A. C., JR. More grass for Wyoming. Wyo. Stockman-Farmer 55(4): 3, 11. Apr. 1949. 6 W992
- 42329 HUMBERT, W. Sachez entretenir vos herbages. Acclimatation 76: 61. (Concl.) Mar. 12, 1949. 14 Ac2
- 42330 HURD, R. M. Sagebrush to grass. Amer. Cattle Prod. 30(11): 11-21, 26. Apr. 1949. 49 P94
- 42331 HUTTO, E. E., and PAGE, B. R. Better pastures—less expense. Ala. Farmer 27(7): 9, 16. Apr. 1949. 276.8 AL1
- 42332 INGVASON, P. A. Back to the grass roots. Southwest. Crop & Stock 3(3): 13, 37. Mar. 1949. 6 So8942  
Grassland farming in West Texas.
- 42333 JULEN, G. Inbreeding in herbage plants. In Åkerman, Å., ed. Svalöf 1886-1946, p. 211-236. Ref. Lund, Blom, 1948. 61.9 AL5
- 42334 KANNENBERG, H. Die beste wiese und weide; praktischer ratgeber für die zweckmässige anlage und erhaltung der wiesen und weiden im ertrage. Hannover, Schaper, 1948. 63 p. 60.1 K13
- 42335 KHARCHENKO, V. A. Kormovye korneplody [Forage root crops]. Ed. 10, rev. and enl. Moskva, Sel'khozgiz, 1948. 278 p. 60.4 K52
- 42336 KOSKINEN, Y. K. Results and experiences from experiments in culture of leguminous feed plants. (In Swedish.) Prakt. Försöksverks. 5: 42-43. May/June 1948. 20 P88
- 42337 LANCASTER, R. R. Annual lespedezas. Tex. Agr. Col. Ext. C. 178, 12 p. 1949. 275.29 T312C
- 42338 LESPÉRANCE, R. Une instructive "journée agricole." Terre de Chez Nous 21(21): 8, 25. Feb. 16, 1949. 7 T27  
Chiefly on the Ladino clover culture at the Lennoxville Experimentation Station.
- 42339 LOHWAG, K. Studie über die botanische heuanalyse. Wien. Tierärztl. Monatsschr. 35: 325-334. July 1948. 41.8 T345  
Varieties.
- 42340 LONG, C. M. How much grass? Here is the method of figuring how much should be in your rotation. Farm Q. 4: 58-60, 62, 108. Spring 1949. 6 F22995
- 42341 MCKEE, R., and SCHOTH, H. A. Birdsfoot trefoil [Lotus corniculatus] and big trefoil [Lotus uliginosus]. U. S. D. A. C. 625, rev., 14 p. Ref. Feb. 1949. 1 Ag84C
- 42342 MCKEE, R., and SCHOTH, H. A. Vetch culture and uses. U. S. D. A. Farmers' B. 1740, slightly rev., 23 p. Jan. 1949. 1 Ag84F
- 42343 MAITS, B. Can you beat this for grass? Country Gent. 119(4): 36, 101, 102. Apr. 1949. 6 C833  
Culture and yield.
- 42344 MALI, L. Seed production of forage plants. (In Swedish.) Prakt. Försöksverks. 5: 33-35. May/June 1948. 20 P88
- 42345 MALOWAN, L. S., and ALBA, G. La composición de los pastos en Panamá. Rev. de Agr., Com. e Indus. [Panama] 8(89): 9-10. Jan. 1949. 8 R3291
- 42346 MARSILY, E. DE. Le melilot, cet inconnu. Terre d'Oc 31: 15-20, 53-56. Jan-Feb. 1949. 14 Ar5
- 42347 MEYER-BAHLBURG, W. Der luzernebau in Nordwestdeutschland. Lüneburg, Kinau, 1948. 52 p. (Kurzschriften für Landwirtschaft, Gartenbau und Siedlung 14) 60.3 M572
- 42348 MIEDEMA, R. Seed culture of sweet lupine. (In Dutch.) Boer en Tuinder 3(115): 7. Mar. 19, 1949. 12 B632



- 42349 MIEGE, E. La culture de l'alpiste. Inform. Maroc. 418: 2, 4. Jan. 15, 1949. 281.8 In3
- 42350 MODENA, A. Experimental results with mountain forage plants. (In Italian.) Agr. Tosc. 4: 62. Feb. 1949. 16 Ag8263
- 42351 MORRIS, J. J. Pasture research work at the Potchefstroom College of Agriculture for the period 1941-1945. So. Africa Dept. Agr. B. 277, 28 p. 1948. 24 So84P
- 42352 NETHERLANDS. MINISTERIE VAN LANDBOUW, VISSERIJ EN VOEDSELVOORZIENING. DIRECTIE VAN DE LANDBOUW. The possibilities for producing forage crops at home. (In Dutch.) Netherlands. Min. van Landb. Viss. en Voedselvoorziening. Afd. Doc. Landbouwwoorlichting 3, 24 p. 1948. 12 N384
- 42353 NIXON, W. M. Four native grasses that stay put. Prog. Farmer, Tex. Ed. 64(3): 18. Mar. 1949. 6 T311
- 42354 NIXON, W. M. Good management for grasslands. Tex. Livestock J. 8(2): 6, 49, 56. Feb. 15, 1949. 49 T29
- 42355 PECHANEC, J. F. What's ahead for the Range Society? J. Range Mangt. 2: 39-42. Apr. 1949. 60.18 J82  
American Society of Range Management.
- 42356 PENCE, M. O. Stretch your legume seed dollars. Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1949: 5, 7-8. Mar. 23, 1949. 275.29 In2Em
- 42357 PLUMMER, A. P. Kochia—livestock like it; ornamental garden plant makes good forage. Utah Farmer 68(15): 10, 24. Mar. 26, 1949. 6 D45
- 42358 POULTON, C. E. Sampling technique in range forage volume inventory. (Abs.) Northwest Sci. 22: 34. Feb. 1948. 470 N81
- 42359 POZO PELAYO, C. DEL. El guión de la veza. Murcia, Spain. Cám. Ofic. Agr. B. 75: 2-3. Jan. 1949. 15 M93
- 42360 PRINCE, F. Green gold of New England; methods the 1948 N. E. green pastures contest winners are using to develop our heritage of soil and climate. Fed. Reserve Bank Boston. New England Farm Finance News 4(3): 3-4. Mar. 1949. 284.28 N44
- 42361 PRINCE, F. S. Farmers are designing an eastern pasture farm. East. States Coop. 25(3): 6-7. Mar. 1949. 280.28 Ea7
- 42362 PRINCE, F. S. The new pasture pattern; one of the quickest ways to get results is to place more dependence upon plant food. New England Homestead 122 (5): 12, 14. Mar. 12, 1949. 6 N442
- 42363 PROFERANSOVA, N. Experiments in partial harvesting of clover seed plants. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Sborn. Studen. Nauch.-Issled. Rabot 1948: 9-12. 106 M852Sb
- 42364 RAMONA, R. DE. La grama. Cult. Mod. 30: 130. Apr. 1947. 15 C89
- 42365 REED, M. J. Water relations and organic-matter content of differentially stocked cattle ranges in eastern Montana. (Abs.) Northwest Sci. 22: 15. Feb. 1948. 470 N81  
Effect on soil moisture.
- 42366 RUDE. Was ist vom vermehrungsanbau des deutschen weidelgrases zu sagen? Württemberg. Wchnbl. f. Landw. 116: 140. Mar. 12, 1949. 18 W96
- 42367 RUDE. Was ist vom vermehrungsanbau des wiesenschwingels zu sagen? Württemberg. Wchnbl. f. Landw. 116: 110. Feb. 26, 1949. 18 W96
- 42368 SELLERS, R. What insures good lupine? Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(4): 16. Apr. 1949. 6 P945G
- 42369 SERVISS, G. Grass is "Green Gold." Amer. Agr. 146: 193, 204. Apr. 2, 1949. 6 Am3  
Seeding grasses.
- 42370 SHAIN, S. S. Selection of perennial forage plants and grasses and increasing the fertility of the soil. (In Russian.) Selekt. i Semen. 15(10): 44-51. Oct. 1948. 61.9 Se5
- 42371 SHANTILOV, I. S. Forage plants [red clover and alfalfa] in the experiments of the Polevafá Opytnaia Stantsiia. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Polev. Opytn. Stants. Iz Rezul't. Rabot 1945/46: 32-51. 1948. 64.9 M85
- 42372 SIRRI, A. Improve meadows and pastures and spread the keeping of select livestock. Bologna Agr. 2(8): 1. Feb. 19, 1949. 16 B634
- 42373 SKAARE, S. Kale. (In Norwegian.) Norsk Landbr. 15: 45. Feb. 4, 1949. 11 N8122
- 42374 SNYDER, H. Subterranean clover, outstanding forage variety. Seed World 64(7): 16, 20, 50-51. Apr. 1, 1949. 61.8 Se52
- 42375 SNYDER, H. Subterranean clover—seed it in the south in the months of December and January. Stockman 8(12): 13, 40-41. Dec. 1948. 49 So83
- 42376 SONNEVELD, A. Seeding of pastures. What time is the best? (In Dutch.) Boer en Tuinder 3(119): 3. Apr. 16, 1949. 12 B632
- 42377 SQUADRONI, G. Alfalfa alone or with other plants? (In Italian.) Terra e Sole 78: 61. Feb. 1949. 16 T273
- 42378 STEINKAMP, A. Anbau von stüslupinen und zwischenfruchtbau. Landw. Wchnbl. f. Westfalen u. Lippe 106: 93-94. Feb. 5, 1949. 18 L2346
- 42379 THAINE, R. Harvesting an outstanding subterranean clover crop. New Zeal. J. Agr. 78: 51. Jan. 15, 1949. 23 N48J
- 42380 THOMPSON, W. R. Grazing—hay—seed crop—more grazing. Prog. Farmer, Miss.-Ark.-La. Ed. 64(4): 16, 126. Apr. 1949. 6 So81
- 42381 THOMPSON, W. R. When pastures are green all year. Prog. Farmer, Miss.-Ark.-La. Ed. 64(3): 17. Mar. 1949. 6 So81
- 42382 TODARO, F. Forage production. (In Italian.) Gior. di Agr. 59: 70. Feb. 27, 1949. 16 It1G
- 42383 TORSSELL, R. Different methods in the breeding of lucerne. In Åkerman, Å., ed. Svalöf 1886-1946, p. 237-248. Lund, Blom, 1948. 61.9 AL5
- 42384 TURBOTT, E. G. Effect of goats on Great Island, Three Kings, with descriptions of vegetation quadrats. Auckland Inst. and Mus. Rec. 3: 253-272. Ref. Dec. 20, 1948. 514 Au22R
- 42385 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Science and the Western range today, by C. K. Pearce, B. A. Christmas, and C. Herrell. Washington, 1949. 5 p. 1.914 R2R11  
Range management.
- 42386 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Seed to save the soil, by M. A. McCall, E. A. Hollowell, K. Beeson, and K. M. Gapen. Washington? 1949. 4 p. 1.914 R2R11  
Grass and legume varieties.
- 42387 U. S. FOREST SERV. NORTHERN ROCKY MOUNTAIN FOREST & RANGE EXPERIMENT STATION. A selected bibliography of range management literature published in 1947. Missoula, 1948. 14 p. (v. 1, No.2) 1.9622 N3Se4
- 42388 VORSTER, J. H. The position of alfalfa. (In Afrikaans.) Landbouweekblad 30(1548): 46. Mar. 16, 1949. 24 L232
- 42389 WASSENAAR, T. Grass—short cut to soil conservation. (In Afrikaans.) Primary Prod. [Cape Town] 24(10): 3. Mar. 11, 1949. 281.8 P93
- 42390 WELLINGTON, B. The 1949 field seed program. Mass. Farm. Bur. Mass. 1949: 26-27. Mar. 1949. 275.293 Mass.  
Grass varieties.
- 42391 WEXELSEN, H. Culture of meadow and pasture plants seeds. (In Norwegian.) Tidsskr. for det Norske Landbr. 55: 253-278. Nov./Dec. 1948. 11 T433
- 42392 WHITNEY, D. J. Promising grasses for winter feed. Calif. Farmer, South. Ed. 190: 301. Mar. 26, 1949. 6 C126A
- 42393 WHITTET, J. N. Temporary pastures in the wheat rotation. Agr. Gaz. N. S. Wales 60: 9-10. Jan. 1949. 23 N472  
Pasture mixtures.
- 42394 WHYTE, R. O. The fodder resources of Palestine; a report of a survey made in autumn 1945 and spring 1946. Jerusalem, Govt. Print. Off., 1948. 31 p. Ref. 60 W62
- 42395 WILLARD, C. J. Study production of clover and alfalfa in Corn Belt. Seed Trade News 52(14): 1, 3. Apr. 6, 1949. 61.8 Se3
- 42396 XIMÉNEZ DE EMBUM Y GONZALEZ-ARNAO, J. Cultivo silvo-pastoral. Surco [Madrid] 7(82): 9-11. Dec. 1948. 15 Su7



- 42397 ZHIVAN, V. P. Culture of perennial lupine under conditions of the North. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(7): 20-22. 1948. 20 Ak1
- 42398 ZUBRILIN, A. A. In regard to the theory of drying grasses and forage plants for hay. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(5): 3-7. 1948. 20 Ak1
- 42399 ZYKOVA, E. A. Forage root crops in the experiments of the Polevaya Opytnaya Stanitsa. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Polev. Opytn. Stanits. Iz Rezul't. Rabot 1945/46: 155-194. 1948. 64.9 M85

### Oil Crops

- 42400 AMARGOS, J. L., and DÍAZ ROMERO, J. Cultivo del maní. Agronomía [Habana] 9: 25. (Concl.) Jan. 1949. 8 C893
- 42401 ANDERSSON, G., and OLSSON, G. Oil plants. In Åkerman, A., ed. Svalöf 1886-1946, p. 166-183. Ref. Lund, Blom, 1948. 61.9 AL5
- 42402 BAGLIONI, F. Agronomic and industrial possibilities of soybeans. (In Italian.) Agr. delle Venezie 2: 1015-1028. Nov./Dec. 1948. 16 Ag826
- 42403 CANNON, G. Sunflowers. Farm Q. 4: 65-66, 117-120. Spring 1949. 6 F22995
- 42404 CHEVALIER, R. Essais comparatifs de rendement de carthame (1948). Acad. d'Agr. de France 35: 86-89. Ref. Jan. 19/26, 1949. 14 P215Bc
- 42405 CLAASSEN, C. E. Safflower production in the western part of the Northern Great Plains. Nebr. Agr. Expt. Sta. C. 87, 23 p. Feb. 1949. 100 N27
- 42406 CLYDESDALE, C. S., and HART, J. Sunflowers for seed on the Darling Downs. Queensland Agr. J. 67: 318-331. Dec. 1948. 23 Q33
- 42407 CRAM, B. La culture de l'oeillette. Unité Paysanne 4(177): 2. Mar. 26, 1949. 14 Un3
- 42408 DJU, D. C., and MCCAY, C. Vigor and viability in soybeans. Soybean Digest 9(5): 22-24. Mar. 1949. 60.38 So9
- 42409 DURAND, A. La culture du lin oléagineux en Tunisie. Rev. Agr. de l'Afrique du Nord 47: 10-13. Jan. 7, 1949. 80 R326
- 42410 EGERMANN, E. Unsere ölfrüchte einmal anders gesehen. Bodenkultur 2: 217-238. Ref. 1948. 19 B635
- 42411 FISCHER, W. J. Ölpflanzen, pflanzenöle. Stuttgart, Kosmos, 1948. 80 p. 77 F52
- 42412 GAIN, A. Le colza en France. Oleagineux 4: 240-241. Apr. 1949. 77.8 OL2
- 42413 GREGORY, W. C. Seven ways to increase 1949 peanut profits. Prog. Farmer, Car.-Va. Ed. 64(4): 122-123. Apr. 1949. 6 P945
- 42414 HARTWIG, E. E., and CARR, R. B. S-100, Ogden and Roanoke best adapted soybeans for seed production in Delta. Miss. Farm Res. [Miss. Sta.] 12(3): 1, 8. Mar. 1949. 100 M69Mi
- 42415 HUGUET, F. Une plante oléagineuse du Midi, "Le carthame." Vaucluse Agr. 5(86): 2. Mar. 1, 1949. 14 V26
- 42416 JOGLAR RODRIGUEZ, F. La habichuela soya y su cultivo. Puerto Rico. Agr. Col. Ext. C. 4-H 44, 4 p. Aug. 1948. 275.29 P96Cu
- 42417 KNOWLES, P. F. Castor beans a promising crop. Calif. Farmer, South. Ed. 190: 303. Mar. 26, 1949. 6 C126A
- 42418 KNOWLES, P. F. Safflower may be a promising crop. Calif. Farmer, North. Ed. 190: 273. Mar. 12, 1949. 6 C12C
- Includes cultural practices.
- 42419 LAGARDE, J. Les oléagineux de printemps. Acclimatation 76: 78. Mar. 26, 1949. 14 Ac2
- 42420 LAMBERT, J. W. Are soybeans here to stay? Minn. Farm and Home Sci. [Minn. Sta.] 6(2): 12-13. Feb. 1949. 100 M668
- 42421 LAURENT, R. L'oeillette, culture industrielle à deux fins. Inform. Maroc. 412: 3. Dec. 4, 1948. 281.8 In3
- Culture.
- 42422 LEITZ, Der sommer-oelfruchtanbau. Württemb. Wchnbl. f. Landw. 116: 124-125. Mar. 5, 1949. 18 W96

- 42423 LORRAIN, A. Svalöf et la sélection des oléagineux en Suède. Oleagineux 4: 232-235. Apr. 1949. 77.8 OL2

- 42424 MIÈGE, E. Cultivation of safflower in French Morocco. (In Italian.) Olearia 3: 91-97. Ref. Feb. 1949. 307.8 OL2
- French and English summary.

- 42425 MIÈGE, E. Les exigences du lin oléagineux. Inform. Maroc. 420: 1, 3. Jan. 29, 1949. 281.8 In3

- 42426 PRÉVOT, P. Sur la possibilité d'augmenter le rendement de l'arachide par suppression des bourgeons terminaux. Paris. Acad. des Sci. Compt. Rend. 228: 703-705. Feb. 21, 1949. 505 P21

- 42427 PROBST, A. H. The Wabash soybean. Soybean Digest 9(5): 20-21. Mar. 1949. 60.38 So9

- 42428 ROSTAND, A. Le développement de la culture des oléagineux annuels au Maroc; sa nécessité, les possibilités. Oleagineux 4: 137-140. Mar. 1949. 77.8 OL2

- 42429 SABOE, L. C. Monroe, a pre-wheat variety for northern Ohio. Soybean Digest 9(5): 18-19. Mar. 1949. 60.38 So9

- 42430 SACHSE, K. Kurzregeln für den ölfruchtanbau. Frankfurt a. M., Siebeneicher Verlag, 1948. 63 p. 77 Sa1

- 42431 SPEAR, G. H. B. Linseed harvesting. Kent Farmers' J. 65: 46. Mar. 1949. 10 K41

- 42432 URQUIDI M., R. Cultivo del maní o cacahuete (Arachis hypogea). Campo [La Paz] 3(21): 5-8. Jan. 1949. 9.1 C15

- 42433 VALENTIN, J. Le ricin dans notre culture expérimentale de Beaucauze. Potasse 163: 52-53. Mar. 1949. 57.8 P84

- 42434 VIRELIZIER, P. Notes complémentaires sur le ricin français d'Anjou. Inform. Maroc. 418: 4. Jan. 15, 1949. 281.8 In3

- 42435 VIRELIZIER, P. Le ricin au Maroc. Inform. Maroc. 413: 1, 3. Dec. 11, 1948. 281.8 In3

### Sugar Crops

- 42436 ARMER, A. Plant spacing and weed control in sugar beets. Spreckels Sugar Beet B. 13: 10, 15. Mar./Apr. 1949. 66.8 Sp7

- 42437 BOCCIA, R. Practical notes on sugar beet culture. (In Italian.) Terra e Sole 78: 60. Feb. 1949. 16 T273

- 42438 DIONNE, G. Pour l'avenir de la betterave à sucre. B. des Agr. 45(3): 19, 53. Mar. 1949. 7 B872

- 42439 EKAMBARAM, C. Some aspects of ratooning in sugarcane. Madras Agr. J. 36: 28-29. Jan. 1949. 22 M262

- 42440 FOSTER, C. B. The yield of sugar cane in Barbados in 1948. Barbados. Dept. Sci. and Agr. B. (n. s.) 12, 14 p. July 1948. 8 B23B

- 42441 GARCIA-NUCHE, L. Cultivo de remolacha en España. Siembra 1949: 5-6. Jan. 1949. 15 Si1

- 42442 HARVEY, P. N. Early drilling and increased tonnage. Brit. Sugar Beet Rev. 17: 97-99. Mar. 1949. 66.8 B77

- 42443 LAKSHMIKANTHAM, M. Some observations on the spread and decline of sugarcane varieties in Madras during the last fifty years. Madras Agr. J. 36: 23-27. Ref. Jan. 1949. 22 M262

- 42444 MANUEL, G. D. More beets per acre = more sugar per acre. Spreckels Sugar Beet B. 13: 11, 16. Mar./Apr. 1949. 66.8 Sp7

- 42445 MATTHEUS, R. Praktische Erfahrungen aus dem zuckerrübenbau. Kurzbrieft. Ernähr. u. Landw. 12, B III 4: 1-2. Dec. 1948. 281.8 K96

- 42446 MOHANA RAO, N. V., and PARTHASARATHY, S. V. More sugar per acre. Madras Agr. J. 36: 3-8. Jan. 1949. 22 M262

- Sugarcane varieties and the sugar industry.

- 42447 POHL, H. Betriebswirtschaftliches vom zuckerrübenanbau! Landw. Wchnbl. f. Westfalen u. Lippe 106: 71. Jan. 29, 1949. 18 L2346

- 42448 QUELQUES aspects nouveaux de la culture de la betterave sucrière. Inst. Belge pour l'Amélior. de la Betterave P. 17: 3-11. Jan./Feb. 1949. 66.9 In7

- 42449 ROJAS A., F. A. Comentario sobre el cultivo de la caña y la fabricación de dulce en Costa Rica. Suelo Tico 1: 306-310. Nov. 1948. 8 Su2



- 42450 ROSE, O. Early drilling: what 1948 taught us. *Brit. Sugar Beet Rev.* 17: 101. Mar. 1949. 66.8 B77
- 42451 SMITH, P. B. Sugar beet growing in northern Europe. *Through Leaves* 27: 22-25. Jan./Feb. 1949. 66.8 T41
- 42452 TEJADA, J. DE D. Agricultura cañera internacional. *Zafra* 2(13): 23-24. Jan. 1949. 65.8 Z12
- 42453 TISHCHENKO, A. V. Effect of growing conditions on the quality of sugar beet seeds. (In Russian.) *Selek. i Semen.* 15(10): 31-35. Oct. 1948. 61.9 Se5

#### Tobacco

- 42454 BREWER, MRS. L. C. The growing of tobacco. *Gard. Club Amer. B.* (ser. 11)13: 19-21. Mar. 1949. 90.32 G16
- 42455 CUTHBERTSON, H. Tobacco leaf from your garden. *Amateur Gard.* 65(3380): 24. Feb. 22, 1949. 80 Am13
- 42456 CYPRUS. DEPT. OF AGRICULTURE. Report on the yellow leaf tobacco industry and the possibility of cultivating Virginian tobacco in Cyprus. *Nicosia*, 1948. 56 p. 69 C99
- 42457 DUNCAN, R. Home tobacco growing. *Smallholder* 80(2032): 8. Mar. 11, 1949. 10 Sml
- 42458 HASLAM, R. J. The study of burley varieties. *Canad. Expt. Farms. Tobacco Div. Lighter* 19: 10-16. Feb. 1949. 286.89 C16
- 42459 JONGENS, R. Deli tobacco. (In Dutch.) *Econ. Weekbl. v. Indonesië* 15: 47-49. Jan. 15, 1949. 280.8 Ec76
- 42460 KINCAID, R. R. Three interspecific hybrids of tobacco. *Phytopathology* 39: 284-287. Ref. Apr. 1949. 464.8 P56
- Includes tests for disease resistance.
- 42461 MATTHEWS, G. R., and MATTHEWS, E. M. Big tobacco yields mean big money. *South. Planter* 110(3): 18, 40-41. Mar. 1949. 6 So89
- Better methods of tobacco culture.
- 42462 PONTING, C. A guide for tobacco growers. *Pop. Gard.* 51: 16, 20. Mar. 12, 1949. 80 G1622
- 42463 SAINT-QUENTIN, M. En terrains fertiles et bien exposés cultivez du tabac. *Rustica* 22: 189. Mar. 6, 1949. 14 R92
- 42464 SOUTHERN RHODESIA. TOBACCO RESEARCH BD. Introduction and short summary of annual report for 1947-48 season. *South. Rhodesia. Dept. Agr. and Lands. B.* 1456, 12 p. 1948? 24 R345
- Culture.
- 42465 STINSON, F. A. Tobacco research at the Dominion Experimental Substation, Delhi, Ontario. *Canad. Expt. Farms. Tobacco Div. Lighter* 19: 1. Feb. 1949. 286.89 C16
- 42466 VALLEAU, W. D. Breeding low-nicotine tobacco. *J. Agr. Res.* 78: 171-181. Ref. Apr. 1, 1949. 1 Ag84J
- 42467 VEN, L. F. J. M. VAN DER. De teelt van tabak [The culture of tobacco]. *Netherlands. Dir. van den Landb.* 46, 93 p. 1949. 86 N382
- 42468 VEN, R. V. D. Tobacco culture in April. (In Dutch.) *Boer en Tuinder* 3(119): 3. Apr. 16, 1949. 12 B632
- 42469 WOLF, F. A. Turkish or oriental tobacco. *Econ. Bot.* 3: 32-41. Ref. Jan./Mar. 1949. 450 Ec7

#### HORTICULTURAL CROPS

Includes articles on general horticulture, and on varieties, breeding, cultural practices, and yield.

#### General

- 42470 ALDERMAN, W. H. Station announces fruits and potatoes. *Minn. Farm and Home Sci.* [Minn. Sta.] 6(2): 3, 15. Feb. 1949. 100 M668
- New varieties.
- 42471 AMERICAN ASSOCIATION OF NURSERYMEN. Proceedings, seventy-third annual convention, 1948. *Milwaukee, Wis.*, 1948. 159 p. 81 Am3P
- 42472 ARIAS, E. Importancia de las huertas escolares y las huertas caseras. *Suelo Tico* 1: 296-300. Nov. 1948. 8 Su2
- 42473 ARRUDA, A. F. DE. My garden; invitation to horticulture. (In Portuguese.) *Chacaras e Quintais* 79: 298-299. (Cont.) Mar. 15, 1949. 9.2 C34
- 42474 BENDER, B. Etwas über gewächshausbau. *Süddeut. Erwerbsgärt.* 3: 38. Jan. 29, 1949. 80 Su2
- 42475 BINKLEY, F. Seeds and seasons. *Green Thumb* 6(4): 31. Apr. 1949. 80 G82
- 42476 BIRZER, F. Wir müssen mehr sein als bloss gärtner. *Süddeut. Erwerbsgärt.* 3: 19-20. Jan. 15, 1949. 80 Su2
- 42477 BLARINGHEM, L. Le Congrès des Sociétés Savantes de 1948 et l'horticulture. *Rev. Hort.* [Paris] 120: 270-272. Aug. 1948. 80 R32
- 42478 BLOM, G. As the Northwester rages. Wind damage in Westland and Kring. (In Dutch.) *Groenten en Fruit* 4: 584. Mar. 10, 1949. 80 G89
- To greenhouses.
- 42479 BODDY, F. A. Industry and horticulture. II. *North. Gard.* 3: 31-36. Feb. 1949. 80 N816
- 42480 BODE, L. L'electroculture puissant adjuvant agricole. *Colon Franç. de Tunisie* 59(2089): 2. (To be cont.) Mar. 5, 1949. 24 C712
- 42481 BÖHM, F. J. Etwas über das kapitel samen-zucht. *Gartenbauwirtschaft* [Wien] 1948(10): 5-6. Oct. 15, 1948. 80 G1936
- 42482 BÖHM, F. J. Der gartenbau in Holland. *Gartenbauwirtschaft* [Wien] 1948(12): 1-4. Dec. 15, 1948. 80 G1936
- 42483 BÖHM, F. J. Wien, wie es wird—und der gartenbau. *Gartenbauwirtschaft* [Wien] 1948(10): 8-9. Oct. 15, 1948. 80 G1936
- 42484 BURGESESSER, F. W. Important developments in coated seeds may save time and money. *Fruit & Veg. Rev.* 11: 18-19. Apr. 1949. 80 C1224
- 42485 BURNE, W. R. Seedlings under glass. *North. Gard.* 3: 37-41. Feb. 1949. 80 N816
- 42486 CARNES, W. A backyard gold mine: gardening —pleasure—pay. *Ala. Farmer* 27(7): 7, 17. Apr. 1949. 276.8 AL1
- 42487 CHOQUET, A. Les pots à fleurs. *Jard. Ouvrier de France* 1948: 6. Nov./Dec. 1948. 80 J283
- 42488 CHURCH, T. Two-level gardening for the flat lot. *House Beautiful* 91(5): 148-149. May 1949. 296.8 H81
- 42489 CONLEE, C. R. Beautify Milwaukee. *Amer. Assoc. Nurserymen. Proc.* 73: 102-105. 1948. 81 Am3P
- 42490 CURTIS, C. H., and HAY, R. New plants of the year; a descriptive list of all plants, flowers, fruits and vegetables that have received awards from the Royal Horticultural Society, the National Chrysanthemum Society and the National Rose Society during 1947. *London, Latimer House*, 1948. 144 p. 90.06 C94
- 42491 DEMNIG, A. Erdtopfkultur und erdtopfpressen. *Süddeut. Erwerbsgärt.* 3: 3-4. Jan. 1, 1949. 80 Su2
- 42492 DEMNIG, A. Frühbeefensterrahmen. *Süddeut. Erwerbsgärt.* 2: 122-123. Dec. 15, 1948. 80 Su2
- 42493 DEMNIG, A. Zentrale frühbeefensterlüftung. *Süddeut. Erwerbsgärt.* 3: 17. Jan. 15, 1949. 80 Su2
- 42494 DIETER, B. Zur frage der auflösung von arbeits- und dienstverhältnissen. *Süddeut. Erwerbsgärt.* 2: 113-114. Dec. 1, 1948. 80 Su2
- 42495 DOUMONT, L., and VALEMBERG, M. Ce qu'il faut savoir au sujet des parties souterraines des plantes. *Courrier Hort.* 10: 724-725. Dec. 1948. 80 C834
- 42496 DOUMONT, L., and VALEMBERG, M. Le bouturage. *Courrier Hort.* 10: 656-657. Nov. 1948. 80 C834
- 42497 EISELT, M. G. Kritische gedanken zur pflanzenvermehrung. *Süddeut. Erwerbsgärt.* 3: 17-18. Jan. 15, 1949. 80 Su2
- 42498 ENE DE PIRO, A. A. M. L'étiquetage des plantes. *Rev. Hort.* [Paris] 120: 278. Aug. 1948. 80 R32
- 42499 FORET, J. A., NICHOLS, H. E., and HABER, E. S. Laboratory exercises in horticulture. *Ames, Iowa State Col. Press*, 1949. 122 p. 90.4 F76
- 42500 GASPARI, M. Agronomical problems. (In Italian.) *Ital. Agr.* 86: 107-124. Feb./Mar. 1949. 16 ItIG
- 42501 GRANT, J. A., and GRANT, C. L. Pruning is simple. *Seattle, McCaffrey*, 1948. 59 p. 93.5 G76
- 42502 HASTINGS, W. R. More details on the 1950 winners. *South. Seedsman* 12(4): 16, 42-43, 46. Apr. 1949. 61.8 So8
- All-America Selections.



- 42503 HASTINGS, D. M. 1950 All-Americas, they're musts for the South. *South. Seedsman* 12(4): 16. Apr. 1949. 61.8 So8
- 42504 HETZ, C. W. Industrialization in practice. II-III. *Amer. Nurseryman* 89(7): 9; (8): 10. Apr. 1-15, 1949. 80 Am371
- 42505 HOTTES, A. C. Garden facts and fancies. New York, Dodd, Mead, 1949. 370 p. 90.52 H79
- 42506 HOTTES, A. C. How to increase plants. New York, De La Mare, 1949. 279 p. Ref. 90.11 H79H  
As originally published, this book was called Practical Plant Propagation.
- 42507 HOWLAND, J. E. Why fill your garden with stakes? *House Beautiful* 91(4): 153. Apr. 1949. 296.8 H81
- 42508 HUME, E. P. Coir dust or cocopeat—a by-product of the coconut. *Econ. Bot.* 3: 42-45. Jan./Mar. 1949. 450 Ec7
- 42509 IMAZU, T., and ARANISHI, Y. Experiments of cultural practices in nursery bed. (In Japanese.) *Hort. Assoc. Japan. J.* 17: 54-58. Mar. 1948. 87 H78
- 42510 JOST, T. Die gartenbaubetriebe im lastenausgleich. *Süddeut. Erwerbsgärt.* 3: 45-46. Feb. 5, 1949. 80 Su2
- 42511 JOUGAN, E. Savez-vous faire un noeud d'osier? *Acclimatation* 76: 42. Feb. 19, 1949. 14 Ac2  
In plant grafting.
- 42512 KAEMPFFERT, W. Frostschadenverhütung durch künstliche beregnung. *Süddeut. Erwerbsgärt.* 2: 6. Jan. 1948. 80 Su2
- 42513 KELSALL, A. Some early horticultural records. *Advertiser* 71(21): 25, 45, 47-48. May 1948. 7 Ad9
- 42514 KING, R. E. Vermiculite. *Back Eden* 15(6, i. e. 7): 7. Mar. 1949. 80 B12
- 42515 KNIGHT, L. The future of horticulture. *Grower [London]* 31: 596. Mar. 26, 1949. 286.83 M34  
Great Britain.
- 42516 KOHL, P. A. Reducing garden upkeep. *Mo. Bot. Gard. B.* 37: 89-92. Apr. 1949. 451 M69B
- 42517 KOPETZ, Neue wissenschaftliche Erkenntnisse und ihre auswertung im gartenbau. *Gartenbauwirtschaft [Wien]* 1948(10): 2-5. Oct. 15, 1948. 80 G1936
- 42518 KROMAIK, G. We begin again to garden. (In Dutch.) *Ons Gezinn* 4: 61. Feb. 1949. 321.8 On7
- 42519 KRÜSSMANN, G. Die wirkung des frostes und anderer einflüsse bei der keimung. *Süddeut. Erwerbsgärt.* 2: 6-7. Jan. 1948. 80 Su2
- 42520 KÜPPERS, G. A. Lebensspender garten; ein buch neuen gartenverständnisses und erfolgreicher gartenpraxis. Lüneburg, Kinau, 1948. 96 p. 90.3 K96
- 42521 LEPAGE, P. Toujours le greffage des arbres sur charpente. *Vie à la Campagne* 38: 114-115. Apr. 1949. 80 V67
- 42522 LISGES, H. Ausnützung von gemüsehäusern im winter unter berücksichtigung des hohen preises für brennstoffe. *Süddeut. Erwerbsgärt.* 3: 5. Jan. 1, 1949. 80 Su2
- 42523 LONGMIRE, A. A. Secrets of successful propagation; methods old and new. Santa Barbara, Calif., Schauer, 1949. 142, 54 p. 90.11 L86  
Consists of two separate pamphlets, one of text and one of illustrations, fastened into the same folder.
- 42524 MABILLE, Attention aux gelées. *Monit. Agr.* 2(64): 6. Apr. 3, 1949. 14 M744
- 42525 MCCONNELL, S. The Canadian nursery industry. *Amer. Assoc. Nurserymen. Proc.* 73: 121-124. 1948. 81 Am3P
- 42526 MCCORMICK, M. A hint for seed-sowers. *Green Thumb* 6(4): 28. Apr. 1949. 80 G82
- 42527 MCCORMICK, N. Plan your planting. *Amer. Family* 2(3): 46. Mar. 1949. 324.8 Am3
- 42528 MACGILLIVRAY, J. H. Home vegetable gardening. *Calif. Agr. Col. Ext. C.* 26, rev., 31 p. Nov. 1948. 275.29 C12C
- 42529 MCKENNON, F. Plant Board activities and nursery markets. *Amer. Assoc. Nurserymen. Proc.* 73: 83-87. 1948. 81 Am3P
- 42530 MCMILLEN, W. The farm market potential. *Amer. Assoc. Nurserymen. Proc.* 73: 91-97. 1948. 81 Am3P
- 42531 MCRAE, H. Experience with vermiculite. *Prof. Gard.* 1: 79. Mar. 1949. 80 P945
- 42532 MARIN, I. Exemplary organization of the horticultural experimental institutes in Holland. (In Italian.) *Riv. della Ortoflorofruttic. Ital.* 32: 154-156. Sept./Oct. 1948. 86 R22
- 42533 MARTIN, L. Prevention of frost damage. *Gard. Illus.* 66: 71. Apr. 1949. 80 G169
- 42534 MILTON, R. H. Gardening by plan. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 64(3): 22, 129. Mar. 1949. 6 P945K
- 42535 MISSOURI. STATE DEPT. OF AGRICULTURE. Certified Missouri nurseries, nursery dealers, green-houses, strawberry growers, bramble growers, Gladiolus growers, Narcissus growers and sweet potato seed growers, 1948-1949, by L. E. Adams. Jefferson City, 1949. 24 p. 225 M694
- 42536 MÖHRING, H. K. Bringt die erdtopfpresse eine änderung in der anzucht-methode? *Süddeut. Erwerbsgärt.* 3: 37-38. Jan. 29, 1949. 80 Su2
- 42537 NATIONAL ALLOTMENTS & GARDENS SOCIETY. LTD. 1949 allotment holders' and gardeners' pocket companion. 1948? 40 p. 282.9 N214A  
British.
- 42538 NEUMANN, F. Über keimproben. *Gartenjahr* 4: 6-7. Jan. 1949. 80 G1932
- 42539 NORTHRUP, KING & CO. Handbook for the garden. Minneapolis, 1949. 46 p. 90 N81
- 42540 NORWAY. LANDBRUKSDEPARTEMENTET. Horticulture. Reports from the State horticultural schools and the State experimentation stations in horticulture for the year 1945. (In Norwegian.) Oslo, 1948. 35 p. 11 C46G
- 42541 NUBOURGH, Y. Du rapport entre le volume des plantations et la superficie du jardin. *Courrier Hort.* 11: 21-25. Jan. 1949. 80 C834
- 42542 PECHERE, R. Et d'abord, qu'est-ce qu'un jardin? *B. Hort. (n. s.)* 4: 40-41. Feb. 1, 1949. 80 B873
- 42543 PHILLIPS, G. A. Planning the small garden. *Gard. Work Amateurs* 69: 492-493. Feb. 19, 1949. 80 G1627
- 42544 POPOV, G. A. Youth naturalists of the capital. (In Russian.) *Sad i Ogorod* 1948(9): 56-63. Sept. 1948. 87 Sa1  
Gardening in the Mandel'shtam Children's Park.
- 42545 PRICE, W. A., and TILSON, H. G. Some items of interest to Kentucky nurserymen. *Ky. Agr. Expt. Sta. Regulat. B.* 67, 24 p. Oct. 1948. 100 K41  
Chiefly regulation and inspection.
- 42546 PRINS, M. European cooperation in horticulture. (In Dutch.) *Groenten en Fruit* 4: 457-458. Jan. 27, 1949. 80 G89
- 42547 RAUCH, A. Sind wirklich die lehrherrn schuld? *Gärt.-Kurier* 4(3): 2-3. Feb. 1, 1949. 80 G1942  
Consideration of gardening as an occupation.
- 42548 READ, F. M. Horticulture abroad. Victoria. Dept. Agr. J. 47: 49-52. Feb. 1949. 23 V66J
- 42549 ROBERSON, F. K. "To be or not to be"—Shakespeare. *Northwest Gard. & Homes* 16(12): 15, 31. Feb. 1949. 80 N813  
Plant propagation.
- 42550 ROBLING, J. S. More beautiful America. *Amer. Assoc. Nurserymen. Proc.* 73: 97-99. 1948. 81 Am3P
- 42551 RUNGE, M. Zur gartenbestellung. *Bad. Landw. Wchbl.* 116: 25-26. Jan. 15, 1949. 18 B142
- 42552 SCHMIDT, L. Sorgen um die zukunft des gartenbaues. *Gartenbauwirtschaft [Wien]* 1948(11): 4-5. Nov. 15, 1948. 80 G1936
- 42553 SCHMIDT, W. Die gartenbauausstellung im rahmen der Grazer herbstmesse 1949. *Gartenbauwirtschaft [Wien]* 1948(12): 6-7. Dec. 15, 1948. 80 G1936
- 42554 SCHMIDT, W. Neugestaltung der gärtnerischen berufsaussichten. *Gartenbauwirtschaft [Wien]* 1948(10): 9-10. Oct. 15, 1948. 80 G1936
- 42555 SECKMAN, M. C. Are your garden club programs dull? *House Beautiful* 91(4): 238-240, 246. Apr. 1949. 296.8 H81
- 42556 SIMPICH, F. California, horn of plenty. *Natl. Geog. Mag.* 95: 553-594. May 1949. 470 N213  
Includes fruit and vegetables.
- 42557 SKARIEN, K. E. No-stoop garden seeds; pelletized packets banish thinning, provide each seed with a bodyguard. *Sun-up* 3, i. e. 4(2): 15. Mar./Apr. 1949. 80 Su7
- 42558 TAYLOR, F. J. Something new at planting time; pelleting, the treatment that fits almost any seed for precision planting, may put an end to hand thinning of crops, growers who are trying it believe. *Country Gent.* 119(4): 19, 87, 89-90. Apr. 1949. 6 C833



- 42559 TOMIN, H. Berufsschutz im erwerbsgartenbau. Süddeut. Erwerbsgärt. 3: 22-23. Jan. 15, 1949. 80 Su2
- 42560 UNION DES SYNDICATS AGRICOLES DE PRODUCTEURS HORTICOLES DE LA RÉGION PARISIENNE. Annuaire officiel de l'horticulture, région Parisienne. Paris, 1948. 208 p. 225 Un392
- 42561 WERTH, A. J. Gemüse und obst auch in der hochmoorsiedlung. Landfrau 4(3): 3. Mar. 1949. 18 L2337 Germany.
- 42562 WING, A. S. New stars flash on the garden screen. Nature Mag. 42: 230-232. May 1949. 409.6 N214
- Vegetable and flower varieties.
- 42563 WOOLLEY, G. A. A tropical school garden [at Tingo Maria, Peru]. Foreign Agr. 13: 55-56. Mar. 1949. 1.9 Ec7For
- Fruits--General
- 42564 ALDERMAN, W. H., and others. Five new varieties of fruits. Minn. Hort. 77: 37. Mar. 1949. 81 M66
- T. S. Weir, A. N. Wilcox, W. G. Brierley, J. D. Winter, and K. Hanson, joint authors.
- 42565 BEAR, E. M. Current research on spring frosts. Grower [London] 31: 597, 599, 601. Mar. 26, 1949. 286.83 M34
- Fruit protection.
- 42566 BEVILACQUA, I. Defense and care of fruit plants. (In Italian.) Campagnolo 1949(2): 7-8. Feb. 1, 1949. 16 C15
- Also in Agr. Moden. 5(4): 4. Mar. 1/15, 1949. 16 Ag8255
- 42567 BEVILACQUA, I. Fruit culture. II. (In Italian.) Agr. Moden. 5(3): 6. Feb. 15, 1959. 16 Ag8255
- 42568 BEVILACQUA, I. Fruit culture. III-IV. (In Italian.) Campagnolo 1949(1): 5; (2): 4-6. Jan.-Feb. 1949. 16 C15
- 42569 BIDER, M. Die witterung in der vegetationsperiode 1948. Schweiz. Z. f. Obst u. Weinbau 58: 13-16. Jan. 1, 1949. 80 Sch9
- 42570 BLAIR, D. S., and SPANGLE, L. P. New fruit varieties. Canad. Grower 72(4): 8. Apr. 11, 1949. 80 C16
- 42571 BLIN, H. Méthode de régénération des arbres fruitiers languissants et improductifs. Agr. Prat. 113: 64. Feb. 1949. 14 J82
- 42572 BONI, G. Notes on fruit culture, String fellow pruning. (In Italian.) Coltivatore e Gior. Vinic. Ital. 95: 35. Feb. 15, 1949. 16 C72
- 42573 BONNICEL, R. Quelques soins importants à prendre avant plantation. J. de la France Agr. 5: 113. Mar. 4/10, 1949. 14 J829
- Fruit.
- 42574 CANDURA, G. Call to the fruit producers of Portici and Bolzano. (In Italian.) Gior. di Agr. 59: 67. Feb. 27, 1949. 16 It1G
- 42575 CARTER, D. Modern trends in fruit growing. Grower [London] 31: 503, 505, 507. Mar. 12, 1949. 286.83 M34
- 42576 CERVI, B. Fruit production possibilities of Parma. (In Italian.) Avvenire Agr. 57: 36-40. (To be cont.) Feb. 1949. 16 Av9
- 42577 CHILDERS, N. F. Fruit science; orchard and small fruit management. Chicago, Lippincott, 1949. 630 p. Ref. 93.21 C432
- 42578 DENOZIÈRES. La plantation des arbres fruitiers. Rev. Hort. de l'Algérie 52(8): 27-29. Oct. 1948. 87 R32
- 42579 DREISEITL, H. Fördert die frosthärte unserer obstbäume. Salzburger Bauer 4(10): 3. Mar. 10, 1949. 19 Sa3
- 42580 DREISEITL, H. Schnitt, aufbewahrung und verwendung der edelreiser. Salzburger Bauer 4(4): 2-3. Jan. 27, 1949. 19 Sa3
- Fruit.
- 42581 DULANEY, MRS. R. The fruit garden in Charlotte. Gard. Club Amer. B. (ser. 11)13: 27-29. Mar. 1949. 90.32 G16
- North Carolina.
- 42582 ELLENWOOD, C. W. It's easier to grow good fruit in a young orchard. Ohio Farmer 203(7): 38-39. Apr. 2, 1949. 6 Oh3
- 42583 FOUARGE, E. La haie fruitière Bouché-Thomas. B. Hort. (n. s.) 4: 115-116. Apr. 1949. 80 B873
- 42584 FRIEND, W. H. Fruit setting hormone. Tex. Farming & Citric. 25(10): 20-21. Apr. 1949. 80 T31
- 42585 HORTH, C. Planting out the orchard. Queensland Prod. 30(32): 10. Feb. 2, 1949. 23 Q35
- 42586 JAIVENOIS, A. L'opportunité des cultures fruitières en Belgique. Courrier Hort. 11: 26-27. Jan. 1949. 80 C834
- 42587 JESPERSEN, J. Die lage des obstbaus in Dänemark. Schweiz. Z. f. Obst u. Weinbau 58: 11-13. Jan. 1, 1949. 80 Sch9
- 42588 JOUGAN, E. Comment surgreffer les arbres fruitiers forts. Acclimatation 76: 67. Mar. 19, 1949. 14 Ac2
- 42589 KEEBLE, SIR F. Hardy fruit growing. Ed. 2. London, Macmillan, 1948. 342 p. 93.3 K24
- 42590 KRASNOPEROVA, E. G. The nursery [fruit] on the Stalin Collective Farm. (In Russian.) Sad i Ogorod 1948(9): 50-51. Sept. 1948. 87 Sa1
- In Riāzan Region.
- 42591 KÜHNE, V. Nachkriegsprobleme im obstbau. Schweiz. Z. f. Obst u. Weinbau 58: 8-11. Jan. 1, 1949. 80 Sch9
- 42592 KURYSHEV, I. L. Institute of Fruit and Berry Production of Uzbekistan. (In Russian.) Sad i Ogorod 1948(9): 53-55. Sept. 1948. 87 Sa1
- 42593 LANGEVIN, E. L'orientation des arbres fruitiers. Rustica 22: 276. Apr. 3, 1949. 14 R92
- 42594 LĚGHIS, L. M. Les arbres qui produisent et ceux qui ne produisent pas. B. Hort. (n. s.) 4: 44, 47. Feb. 1, 1949. 80 B873
- Fruit.
- 42595 LIKHONOS, F. D. On creating cold resistant orchards in Leningrad Region. (In Russian.) Sad i Ogorod 1948(9): 38-41. Sept. 1948. 87 Sa1
- 42596 MARINUCCI, M. Plantings are too close together. (In Italian.) Gior. di Agr. 59: 61. Feb. 20, 1949. 16 It1G
- Fruit.
- 42597 MAURER, K. J. Grundsätzliches zum problem der sämlingsunterlagen. Gartenjahr 4: 13-16. Jan. 1949. 80 G1932
- 42598 MICHAUD, H. H. Birds in the orchard. Hoosier Hort. 31: 41-43. Mar. 1949. 81 In2H
- 42599 MORETTINI, A. Genetic improvement of fruit. (In Italian.) Riv. della Ortoflorofruttic. Ital. 32: 173-186. Nov./Dec. 1948. 86 R22
- 42600 NICOLAÏ, P. Possibilités et moyens d'augmenter les rendements en culture fruitière. Fruit Belge 17: 54-56. Mar. 1949. 80 F9493
- 42601 PEDRETTI, L. Hat der fruchtanbau im grünlandgebiet noch seine berechtigung? Allgäuer Bauernbl. 17: 101-103. Feb. 25, 1949. 18 AL53
- 42602 POENICKE, W. Erfolgreiches veredeln zur vermehrung, zu höherem ertrag, zur sicheren befruchtung der obstbaumbäume. Rev. ed. Hannover, Trowitzsch, 1948. 56 p. 93.5 P75
- 42603 POTTER, J. M. S. Fruit from the garden. Gt. Brit. Min. Agr. and Fisheries. Growmore B. 7, 13 p. 1948. 10 G79Gro
- 42604 REBOUR, H. L'établissement d'un programme d'expérimentation fruitière. Rev. Hort. [Paris] 120: 361-363. Dec. 1948. 80 R32
- 42605 RENAUD, M. Les chantiers-écoles de taille d'arbres fruitiers peuvent permettre à tous les producteurs d'effectuer une taille de qualité à prix réduit. Agriculture [Paris] 13: 19-21. Jan. 1949. 14 Ag823
- 42606 ROSENT, I. Los frutales en primavera. Cult. Mod. 30: 129-130. Apr. 1947. 15 C89
- 42607 ROSBOROUGH, J. F. Fruit growing—the Texas way; there is no magic in fruit growing. But starting right is mighty important. Prog. Farmer, Tex. Ed. 64(3) 17, 149. Mar. 1949. 6 T311
- 42608 ROSBOROUGH, J. F. Fruit varieties for Texas. Tex. Agr. Col. Ext. C. 150, 5 p. 1949. 275.29 T312C
- 42609 SCHMID, G. Brief aus USA. Schweiz. Z. f. Obst u. Weinbau 58: 129-132. Mar. 26, 1949. 80 Sch9
- 42610 SCHMID, W. Grundsätzliches zur kronenerziehung der obstbäume. Schweiz. Z. f. Obst u. Weinbau 58: 53-57. Jan. 29, 1949. 80 Sch9
- 42611 SCHMIDT, H. W. Wem gehört der apfel? Gartenjahr 4: 16-17. Jan. 1949. 80 G1932



42612 SHEWELL-COOPER, W. E. Grafting fruit trees. *Field* 193: 383. Apr. 2, 1949. 10 F45

42613 SLATE, G. L. Fruit trees need cross-pollination. *Flower Grower* 36: 355, 380-381, 397. Apr. 1949. 80 M72

42614 SOCIÉTÉ POMOLOGIQUE DE FRANCE. Le verger français. Chapters I-II. Lyon, Arnaud, 1948. v. 2, 576 p. 93.25 S01

Contents: Ch. I, Fruits locaux & régionaux; Ch. II, Pommes américaines.

42615 STARK, A. How shall we prune? *Utah Farmer* 68(14): 21, 35. Mar. 12, 1949. 6 D45

42616 TANAKA, T. Reconnaissance survey of fruit trees of the world. 1. Total number of fruit trees. (In Japanese.) *Hort. Assoc. Japan. J.* 17: 224-230. Ref. Dec. 1948. 87 H78

English summary.

42617 TOMIN, H. Welche obstmengen sind notwendig, um 1 kilogramm kernobstsaatgut zu erhalten. *Gartenjahr* 4: 7-8. Jan. 1949. 80 G1932

42618 UPSHALL, W. H. Growing dwarf fruit trees on wires. *Fruit Varieties & Hort. Digest* 4: 25-27. Spring 1949. 80 F9464

42619 VEULEMANS, L. Procédés nouveaux en fructiculture. *Courrier Hort.* 10: 730. Dec. 1948. 80 C834

42620 VLASOV, I. A. Razvitie sadovodstva—vsenarodnoe delo [Development of orchard cultivation is the concern of the entire nation]. Moskva, Sel'khozgiz, 1948. 31 p. 93.28 V84

42621 WARREN, D. Dwarf fruit trees for every home. *Household* 49(4): 40. Apr. 1949. 321.8 H813

#### Fruits--Citrus and Subtropical

42622 BELGIUM. MINISTÈRE DES COLONIES. DIRECTION GÉNÉRALE DE L'AGRICULTURE ET DE L'ÉLEVAGE. Le manguier au Congo Belge et au Ruanda-Urundi, by L. Dubois and R. van Laere. Bruxelles, 1948. 83 p. 93.45 B41

42623 BERTHAULT, P. Le problème des agrumes. *Rev. Agr. de l'Afrique du Nord* 47: 108-110. Feb. 25, 1949. 80 R326

42624 BLONDEL, L. L'agrumiculture marocaine. *Rev. Agr. de l'Afrique du Nord* 47: 152-156. (To be cont.) Ref. Mar. 11, 1949. 80 R326

42625 COOK, L. J. The fig. *Amateur Gard.* 65 (3384): 23. Mar. 22, 1949. 80 Am13

42626 HERRERA, L. Les collections d'agrumes de la Station Expérimentale d'Arboriculture de Boufarik. *Rev. Hort. de l'Algérie* 52(8): 21-26. Oct. 1948. 87 R32

42627 JOHNSTON, J. C. Frozen fruit: effect of delayed harvest on yield. *Calif. Citrog.* 34: 238. Apr. 1949. 80 C125

42628 KIMURA, M. Studies on the root system and reciprocal influence of stock and scion in some fruit trees. II. The investigation in kaki trees. (In Japanese.) *Hort. Assoc. Japan. J.* 17: 84-91. Ref. Mar. 1948. 87 H78

42629 LAVRIŨCHUK, I. I. Growing citrus trees without thorns. *Sad i Ogorod* 1948(9): 69-71. Sept. 1948. 87 Sa1

Propagation.

42630 MANN, M. The banana; what it is and how it reaches the dining table. *Frontiers* 13: 102-105, 129. Apr. 1949. 410 F92

42631 ONO, M., MURAMASU, H., and SHIRAKI, T. The time of flower-bud differentiation in loquats. (In Japanese.) *Hort. Assoc. Japan. J.* 17: 100-110. Ref. Mar. 1948. 87 H78

42632 PREST, R. L. Fig growing in Queensland. *Queensland Agr. J.* 67: 332-343. Dec. 1948. 23 Q33

42633 RICE, W. S. Delayed blossom period likely due to cold weather. *Sunsweet Standard* 32(10): 5. Mar. 1949. 286.83 Su7

42634 SCHROEDER, C. A. White sapote varieties in California. *Fruit Varieties & Hort. Digest* 4: 7-9. Spring 1949. 80 F9464

42635 SMALL, R. T. The use of wind machines and helicopter flights for frost protection. *Amer. Met. Soc. B.* 30: 79-85. Mar. 1949. 340.8 Am32

California citrus groves.

42636 TAI, E. A. How to change the variety of your citrus. *Farmer [Kingston]* 52: 199-203. Oct./Dec. 1948. 8 J223

#### Fruits--Deciduous

42637 ADAMS, H. Last chance to plant fruit trees. *Poultry [London]* 104: 111. Feb. 8, 1949. 47.8 P869

42638 ALLEN, F. W. Bartlett pears; use of 2,4-D in controlling drop. *Calif. Fruit & Grape Grower* 3(3): 15-16. Mar. 1949. 95.8 G762

42639 ALLEN, F. W. Pear maturity. *Pear Growers League Ann.* 1949: 37, 39. 286.3939 P31

42640 BALDINI, E. Research on the sterility of the J. H. Hale peach and its hereditary behavior. (In Italian.) *Riv. della Ortoflorofruttic. Ital.* 32: 141-146. Sept./Oct. 1948. 86 R22

English summary.

42641 BARANOVA, A. P. Selection of pollen parents for cherry and plum. (In Russian.) *Sad i Ogorod* 1948 (9): 48-49. Sept. 1948. 87 Sa1

42642 BASTELEUS, R. Voici les poires qu'ils vous faut. *Courrier Hort.* 10: 662-663. Nov. 1948. 80 C834

42643 BOIKO, I. N., and KAS'TANENKO, A. I. Methods of crown formation in stone fruit species. (In Russian.) *Sad i Ogorod* 1948(9): 30-33. Sept. 1948. 87 Sa1

42644 BUDAGOVSKIĬ, V. I. Correlation of different types of dwarf apple rootstocks with the growth of the plantings. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(10): 13-18. Ref. 1948. 20 Ak1

42645 BURKHOLDER, C. L. Pruning practices for Indiana apple orchards. *Purdue U. Agr. Ext. B.* 351, 36 p. Oct. 1948. 275.29 In2E

42646 BUSH, F. A. Fruit culture in small gardens. *My Gard.* 38: 251-254. Mar. 1949. 80 M995

42647 CHUDLEIGH, E. R. Dwarf fruit trees. *Canad. Gladiolus Soc. Ann.* 1949: 85-86. 82 C164Q

42648 CROWTHER, D. S. How to train a fan-shaped tree. *Amateur Gard.* 65(3381): 18. Mar. 1, 1949. 80 Am13

Fruit.

42649 CROWTHER, D. S. Pillar-trained apples. *Amateur Gard.* 65(3377): 16. Feb. 1, 1949. 80 Am13

42650 CUÉNOT, G. Observations sur le comportement de différents porte-greffes des pruniers au Maroc. *Rev. Hort. [Paris]* 120: 340-345. Nov. 1948. 80 R32

42651 CUMMINGS, M. B. Apple tree problems in the nursery. *Amer. Nurseryman* 89(7): 7, 70-76. Apr. 1, 1949. 80 Am371

42652 CUNY, L. La fructification du poirier. *Rev. Hort. [Paris]* 121: 8-13. (To be cont.) Jan./Feb. 1949. 80 R32

42653 DAVIDOVICH, N. I. Formation of the spreading [fruit] tree. (In Russian.) *Sad i Ogorod* 1948(9): 33-34. Sept. 1948. 87 Sa1

42654 DAVIDSON, J. H. Experiences in thinning apples and peaches with sprays. *Hoosier Hort.* 31: 27-31. Feb. 1949. 81 In2H

42655 DERMINE, E. L'excursion de la Ligue Pomologique en Angleterre. 4. *Fruit Belge* 17: 44-53. Mar. 1949. 80 F9493

42656 DUHAN, K. Bewährte russische und baltische apfelsorten für rauhe lagen. *Bodenkultur* 2: 36-42. 1948. 19 B635

42657 ESCAURIAZA, R. DE. La plantación de frutales. *Siembra* 1948(12): 29-31. Dec. 1948. 15 S11

42658 EVREINOFF, V. A. Cerapadus, nouvelle espèce fruitière. *Rev. Hort. [Paris]* 120: 347-348. Nov. 1948. 80 R32

Hybrid of *Prunus chamaecerasus*, *P. pennsylvanica* and *P. maackii*.

42659 GARDINER, G. F. Frame-working solves the problem of the barren fruit tree. *Pop. Gard.* 51: 27. Mar. 19, 1949. 80 G1622

42660 HARRIS, R. W. Orchard work and the new-comer. *Fruit-Grower* 107: 319-320. Mar. 17, 1949. 80 F941

42661 HEGGDAL, R. It is time [for grafting of fruit trees]. (In Norwegian.) *Norsk Hagetidend* 65: 50. Mar. 1/15, 1949. 80 N81

42662 HÉLYE, D. Le casement. *Rev. Hort. [Paris]* 120: 223-224. July 1948. 80 R32

Fruit culture.

42663 HUBBARD, E. S. The simple life for the apple tree. *Amer. Fruit Grower* 69(4): 15, 40-41. Apr. 1949. 80 G85

42664 HUGHES, H. M. A fair deal for Damsons. *Amateur Gard.* 65(3380): 21. Feb. 22, 1949. 80 Am13



- 42665 JALKANEN, P. I. Pollination of Kanel apple trees. (In Swedish.) Prakt. Försöksverks. 5: 39-40. May/June 1948. 20 P88
- 42666 KALASHNIKOVA, N. I. Growth, fruit-bearing and environmental conditions in the self-protective fruit plantations. (In Russian.) Agrobiologiya 1948(4): 122-133. July/Aug. 1948. 20 Ag822  
Self-protective plantations refers to thick planting.
- 42667 KERSTENS, J. Topgrafting of deciduous fruit. (In Dutch.) Boer en Tuinder 3(119): 5. Apr. 16, 1949. 12 B632
- 42668 KIKUCHI, A. The peach varieties "Shanghai" and "Hakubo." (In Japanese.) Hort. Assoc. Japan. J. 17: 1-8. Ref. Mar. 1948. 87 H78
- 42669 KOSTINA, K. F. Prospective apricot varieties for variety testing in Crimea. (In Russian.) Sad i Ogorod 1948(9): 45-48. Sept. 1948. 87 Sa1
- 42670 LARUE, P. Sur l'espacement des pommiers. Arbres et Fruits 38: 28. Apr. 1949. 80 Ar1
- 42671 LÉCOLIER, P. Courbures et arcures. Rev. Hort. [Paris] 120: 267-269. Aug. 1948. 80 R32
- 42672 MANN, A. J., and KEANE, F. W. L. The Van cherry. Fruit Varieties & Hort. Digest 4: 12-13. Spring 1949. 80 F9464
- 42673 METZNER, R. Die vegetativen apfel- und birnenunterlagen und ihre verwendungsmöglichkeit im gartenobstbau. Süddeut. Erwerbsgärt. 2: 19-20. Mar. 1948. 80 Su2
- 42674 MOORE, R. C. A peach variety survey. Va. Fruit 37(2): 24-26. Feb. 1949. 81 V81B
- 42675 MORETTINI, A. Peaches and plums of the "Morettini" cross. (In Italian.) Riv. della Ortoflorofruttic. Ital. 32: 109-122. July/Aug. 1948. 86 R22
- 42676 MOS, D. DE. Pollination and fertilizing of peaches. (In Dutch.) Groenten en Fruit 4: 581. Mar. 10, 1949. 80 G89
- 42677 MOSNIER, M. Plantation fruitière: le pêcher. Terre d'Occ 31: 22-23. Jan. 1949. 14 Ar5
- 42678 NEFF, J. D. Quality more important than the package. Va. Fruit 37(4): 6, 8, 10. Apr. 1949. 81 V81B Apples.
- 42679 PETERSEN, E. O. Fruit in the home garden. New Zeal. Homes & Gard. 18(11): 12. Feb. 1949. 80 N4823  
Propagation.
- 42680 PFANNENSTIEL, A., and PFANNENSTIEL, D. Ueber die möglichkeit, den apfelbaum auf den birnbaum zu veredeln und umgekehrt. Schweiz. Z. f. Obst u. Weinbau 58: 116-117. Mar. 12, 1949. 80 Sch9
- 42681 ROLLINS, H. A. More & better apples per acre. Rural New-Yorker 99: 218, 220. Mar. 19, 1949. 6 R88
- 42682 ROY, P. O. Pourquoi et quand tailler les pommiers? B. des Agr. 45(3): 14. Mar. 1949. 7 B872
- 42683 SALAMATOV, M. N. Prospects of apricot selection in Siberia. (In Russian.) Sad i Ogorod 1948(9): 44-45. Sept. 1948. 87 Sa1
- 42684 SCHAER, E. Ist die Lederreinette, Reinette Grise Parmentier, empfehlenswert? Schweiz. Z. f. Obst u. Weinbau 58: 57-58. Jan. 29, 1949. 80 Sch9  
Apple variety.
- 42685 SHEWELL-COOPER, W. E. Can we go nap on Napoleons? Commercial possibilities of sweet cherry planting to-day. Smallholder 80(2030): 10. Feb. 25, 1949. 10 Sml
- 42686 SLATE, G. L. Native persimmons in New York. Fruit Varieties & Hort. Digest 4: 13. Spring 1949. 80 F9464
- 42687 STANKOVIĆ, D. M. Contribution à l'étude de la chute des fruits chez les pommiers et poiriers avant la récolte. (In Serbian.) Yugoslavia. Min. Poljoprivrede Arh. za Poljoprivredne Nauka i Teh. 3(5): 60-68. Ref. 1948. 21.5 Y9  
French summary.
- 42688 STRUCKMEYER, B. E. Apple pollination studies. Wis. Hort. 39: 211. (Cont.) 80 W752
- 42689 TEICHMAN, W. W. The Redhaven peach. Fruit Varieties & Hort. Digest 4: 14. Spring 1949. 80 F9464
- 42690 TETEREV, F. K. Is Krasa Severa cherry productive? (In Russian.) Agrobiologiya 1948(4): 72-77. July/Aug. 1948. 20 Ag822
- 42691 TEUFFENBACH, W. Kronenpflege und kronengestaltung beim apfelbaum. Kärntner Bauer 99: 69-71. Mar. 1, 1949. 19 K14
- 42692 UPOROV, A. N. Lukashov pears in Moscow Region. (In Russian.) Sad i Ogorod 1948(9): 41-44. Sept. 1948. 87 Sa1
- 42693 USHIROZAWA, K., and SHIBUKAWA, J. On the germination and fertility of apple pollen. (In Japanese.) Hort. Assoc. Japan. J. 17: 209-211. Dec. 1948. 87 H78
- 42694 WALLER, J. F. Orchard heating for apples. Va. Fruit 37(4): 23-24. Apr. 1949. 81 V81B
- 42695 WINKLEPLECK, R. Dwarf fruit trees for home planting. Prof. Gard. 1: 6-7. Jan. 1949. 80 P945

## Fruits--Small

- 42696 AVDEEV, I. T. Methods of preparing currant cuttings for rooting. (In Russian.) Sad i Ogorod 1948(9): 76-77. Sept. 1948. 87 Sa1
- 42697 AVDEEV, I. T. Time for the preparation of currant cuttings. (In Russian.) Sad i Ogorod 1948(9): 76. Sept. 1948. 87 Sa1
- 42698 BAILLE, J. Une nouvelle technique: le remplacement des vignes manquantes. Bouches du Rhone Agr. 22(998): 20. Mar. 15, 1949. 14 B662
- 42699 BERGMAN, H. F. Winter conditions on cranberry bogs in relation to flower and fruit production. Rev. Canad. de Biol. 7: 629-641. Dec. 1948. 442.8 R325
- 42700 BERNON, G. La production des raisins de table. Prog. Agr. et Vitic. 1949: 106-109. Feb. 20/27, 1949. 14 P94
- 42701 BLAGONRAVOV, P. P. Vosstanovlenie vinogradnikov [Rehabilitation of vineyards]. Moskva, Pishchepromizdat, 1948. 72 p. 95.4 B57V
- 42702 BOBADILLA, G. F. DE. La poda de la vid. Siembra 1948(12): 4-6. Dec. 1948. 15 Si1
- 42703 BOUCLIER-MAURIN, H. Réconstitution du vignoble dans l'arrondissement de Mascara: les porte-greffes. Voix des Colons 31(1493): 5. Feb. 28, 1949. 24 V85
- 42704 BREVIGLIERI, N. Longevity of grafted grapes in Tuscany. (In Italian.) Gior. di Agr. 59: 60. Feb. 20, 1949. 16 It1G
- 42705 BRYAN, F. T. Texas' grape laboratory—modern Garden of Eden. Prog. Farmer, Tex. Ed. 64(4): 17. Apr. 1949. 6 T311
- 42706 CANADA. DEPT. OF AGRICULTURE. The blueberry. Canada. Dept. Agr. Farmers' B. 120, rev., 32 p. Mar. 1949. 7 C16F  
Contents: Blueberry culture and propagation, by E. L. Eaton; Blueberry insects and their control, by C. W. Maxwell and A. D. Pickett; Diseases of the blueberry, by J. F. Hockey.
- 42707 CAPUCCI, C. Grapevine trellises "a capovolto," "a pergolete," and "a raggi" in vineyards of the plateau and plain regions. (In Italian.) Genio Rur. 12: 16-37. Jan./Feb. 1949. 281.8 R522
- 42708 CAPUCCI, C. Modern viticulture. (In Italian.) Agr. Romagn. 1949(6): 1. Mar. 20, 1949. (Cont.) 16 Ag828
- 42709 CASTELLINI, A. Teleki 5 BB Kober [grape rootstock] in Tuscany. (In Italian.) Agr. Tosc. 4: 63-64. Feb. 1949. 16 Ag8263
- 42710 CELESTRE, M. R. The story of Italy or the death of a celebrated grape vine. (In Italian.) Terra e Sole 78: 53-54. Feb. 1949. 16 T273
- 42711 CHOQUET, A. Aimez-vous les framboises? Jard. Ouvrier de France 1948: 10. Nov./Dec. 1948. 80 J283
- 42712 CHRISTENSEN, J. B. Determinación de parcelas experimentales para viñas. Experimenta 1: 20-26. Ref. Dec. 1948. 475 Ex72  
English, French, and Italian summaries.
- 42713 DALMASSO, G. Systems of culture and pruning. (In Italian.) Gior. di Agr. 59: 76. Mar. 6, 1949. 16 It1G  
Grapes.
- 42714 DARRAULT, G. Les meilleures variétés de raisins de table sur ceps ou sur treille. J. de la France Agr. 5: 129. Mar. 11/17, 1949. 14 J829
- 42715 DEAN, C. O. Improving a strawberry. Flower Grower 36: 340, 342. Apr. 1949. 80 M72
- 42716 DEMPSEY, P. W. Everbearing strawberry culture, shortcake all summer. Horticulture 27: 138. Apr. 1949. 80 H787
- 42717 DOGLIANI, E. Tall grape vines, cornet fashion. (In Italian.) Agr. Tosc. 4: 57-59. Feb. 1949. 16 Ag8263



- 42718 ENGEL, F. Zur frage der sortenbereinigung im weinbau. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 103-110. 1948. 105.9 V67J
- 42719 EVISON, J. R. B. Mulberries. *Amateur Gard.* 65(3379): 16. Feb. 15, 1949. 80 Am13
- 42720 EYSTER, W. H. How to plant a strawberry patch. *Organic Gard.* 14(4): 28-30. Apr. 1949. 56.8 Or3
- 42721 GAILLOU, G. Viticulteurs, songez à diminuer vos dépenses d'exploitation. *Vaucluse Agr.* 5(86): 13. Mar. 1, 1949. 14 V26
- 42722 GALIBERT, A. Technique du surgreffage en hybrides. *Réveil Agr.* 58: 65. Mar. 1, 1949. 14 R322
- Grapes.
- 42723 GANZ, A. Aus der vergangenheit des aargauischen rebbaues. *Schweiz. Z. f. Obst u. Weinbau* 58: 31-33. Jan. 15, 1949. 80 Sch9
- 42724 GILBERT, F. A. Small fruit program in New Jersey. *Amer. Fruit Grower* 69(4): 11, 30-31. Apr. 1949. 80 G85
- 42725 GILLIN, P. Les cépages à raisin de table. *Colon Franç. de Tunisie* 58(2070): 4. Oct. 23, 1948. 24 C712
- 42726 GILSON, H. Cultivez la vigne en serre. *Rustica* 22: 201. Mar. 6, 1949. 14 R92
- 42727 GUILLOT, R. Il faut sélectionner! Anjou *Agr.* 3(117): 3. Mar. 20, 1949. 14 An5
- Grapes.
- 42728 HALL, C. J. More of the start of cranberry cultivation at Dennis, Cape Cod. *Cranberries* 13(11): 12-16. Mar. 1949. 80 C852
- 42729 HUBER, H. Rebbergrekonstruktion. *Schweiz. Z. f. Obst u. Weinbau* 58: 148-151. Apr. 9, 1949. 80 Sch9
- 42730 JESPERSEN, J. English experiments with and culture of black currants. (In Danish.) *Gart.-Tid.* 65: 57-59. Feb. 9, 1949. 80 G192
- 42731 JUDKINS, W. P. There's money in everbearing strawberries. *Farm & Home Res.* [Ohio Sta.] 34 (256): 13-17. Jan./Feb. 1949. 100 Oh3S
- 42732 KESSELRING, H. Worte eines rebbauern an einer versammlung zur gründung einer weinfachschule. *Schweiz. Z. f. Obst u. Weinbau* 58: 6-7. Jan. 1, 1949. 80 Sch9
- 42733 KEUL, M. R. Strawberries. *Green Thumb* 6(3): 14. Mar. 1949. 80 G82
- 42734 KIRILLOV, F. F. Protection of grapes from winter frosts. (In Russian.) *Sad i Ogorod* 1948(9): 64-68. Sept. 1948. 87 Sa1
- Chiefly cultural methods.
- 42735 KUZ'MIN, A. I. A. First normally fruitful hybrids of red and black currants. (In Russian.) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1948: 690-696. Ref. Nov./Dec. 1948. 511 Sa2B
- 42736 LATTING, E. T. Raspberry culture. *Gard. Chron. Amer.* 53: 105, 110. Apr. 1949. 80 G1632
- 42737 LLOBREGAT BALAGUER, E. Poda de la vinya. *Vinos, Viñas y Frutas* 44: 325. Jan. 1949. 9 Ag89
- 42738 LYON, A. V. Care of young vineyards. *Australian Dried Fruit News* 24(6): 7. Dec. 1948. 286.83 Au72
- 42739 MARIMAN, G. Viticulture en plein air. *Courrier Hort.* 11: 107-109. (To be cont.) Feb. 1949. 80 C834
- 42740 MARIMAN, G. Viticulture septentrionale. *Arbres et Fruits* 37: 3-11. Mar. 1949. 80 Ar1
- 42741 MENON, H. B. El cultivo de la fresa. *Agr. Costarricense* 7: 8, 10-16, 18-21. Jan. 1949. 8 Ag895
- 42742 MIKHAILOV, I. I. A. How we developed a frost-resistant grape in Moscow Region. (In Russian.) *Sad i Ogorod* 1948(9): 68. Sept. 1948. 87 Sa1
- 42743 MIR, R. M. Rejuvenecimiento del viñedo. *Cult. Mod.* 30: 131-132. Apr. 1947. 15 C89
- 42744 MOORE, R. C. Growing grapes in the home garden. *Gard. Gossip* 24(3): 14-16. Mar. 1949. 80 G1625
- 42745 MOTORINA, M., and NIKIFOROVA, L. Effect of altitude and soil conditions on the development of the plants and on the quality of white muscat wine. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiríazeva. Sborn. Studen. Nauch.-Issled. Rabot* 1948: 28-32. 106 M852Sb
- 42746 NEUMAN, F. Growing raspberries for home use. *Prof. Gard.* 1: 46-47. Feb. 1949. 80 P945
- 42747 NISWONGER, H. R. Small fruit culture for home gardeners. *N. C. Agr. Col. Ext. C.* 333, 8 p. Jan. 1949. 275.29 N811
- 42748 OLDHAM, C. H. Spring planting strawberries. *Amateur Gard.* 65(3384): 23. Mar. 22, 1949. 80 Am13
- 42749 PASTENA, B. The Sanginoso grape and its pruning system. (In Italian.) *Mezzogiorno Agr.* 5(10): 2. Mar. 6, 1948. 16 M57
- 42750 PAVLOVA, M. A. IAgodnye kul'tury [Berry crops]. *Moskva, Sel'khozgiz*, 1948. 191 p. 94 P28
- 42751 PETRAKHILEV, I. M. New black currant variety—Nesravnennafá. (In Russian.) *Sad i Ogorod* 1948(9): 77. Sept. 1948. 87 Sa1
- 42752 PEYER, E. Jahresbericht 1948 über die tätigkeit der Genossenschaft zur Produktion von Amerikanischem Unterlagenholz im Inland zur Rebveredlung [Unterlagengenossenschaft]. *Schweiz. Z. f. Obst u. Weinbau* 58: 109-114. Mar. 12, 1949. 80 Sch9
- 42753 PEYER, E. Die "Wädenswiler rebenringe." *Schweiz. Z. f. Obst u. Weinbau* 58: 2-6. Jan. 1, 1949. 80 Sch9
- 42754 PRILLINGER, F., and HITZEL, A. Über die verwendung von wuchsstoffen bei der rebenveredlung. *Osterr. Weinztg.* 4: 107. Mar. 26, 1949. 390.8 Os7
- 42755 RAMOS CHOLBI, A. Datos económicos sobre la plantación y crianza de una vinya. *Alicante. Cám. Ofic. Agr. B.* 60: 6-8. Feb. 1949. 15 AL4
- 42756 RIVEROS, J. E. Experimentación vitícola en San Juan. *Vinos, Viñas y Frutas* 44: 321-322. Jan. 1949. 9 Ag89
- 42757 SARRABAY, J. La vigne dans la région naturelle de Blida. *Rev. Agr. de l'Afrique du Nord* 47: 53-54. Jan. 28, 1949. 80 R326
- 42758 SAYLES, M. Growing better blueberries. *Mich. Farmer* 211: 275. Apr. 2, 1949. 6 M58
- 42759 SCHELLENBERG, A. Prinzipielles zum schnitt und erlesen des Blauen Burgunders. *Schweiz. Z. f. Obst u. Weinbau* 58: 59-62. Jan. 29, 1949. 80 Sch9
- Grape variety.
- 42760 SCHNEIDER, F. Die künftigen arbeiten. Qualitätsverbesserung, schädlingbekämpfung und ausbau der genossenschaften. *Landwirtschaft* 1948: 356-357. Dec. 20, 1948. 19 L235
- Grape culture.
- 42761 SCHÜTZ, F. Die stachelbeere. *Schweiz. Z. f. Obst u. Weinbau* 58: 142-145. Apr. 9, 1949. 80 Sch9
- 42762 SHAULIS, N. Pruning effects on grape production. *Rural New-Yorker* 99: 224, 225. Mar. 19, 1949. 6 R88
- 42763 SHEWELL-COOPER, W. E. New ways—new raspberries. *Amateur Gard.* 65(3381): 18. Mar. 1, 1949. 80 Am13
- 42764 SHEWELL-COOPER, W. E. Starting grape vines into growth. *Smallholder* 80(2032): 13. Mar. 11, 1949. 10 Sml
- 42765 SHPILER, E. E. Cold resistance and drought resistance of raspberry and blackberry varieties under conditions of southern Ukraine. (In Russian.) *Sad i Ogorod* 1948(9): 36-38. Sept. 1948. 87 Sa1
- 42766 SLATE, G. L. Breeding autumn-fruiting raspberries. *Fruit Varieties & Hort. Digest* 4: 10-12. Spring 1949. 80 F9464
- 42767 SMITH, H. Heavy crops of gooseberries. *Pop. Gard.* 50: 500. Feb. 26, 1949. 80 G1622
- 42768 SQUADRONI, G. Green pruning of grapes. (In Italian.) *Terra e Sole* 80: 125. Apr. 1949. 16 T273
- 42769 STANTON, H. Starting a vinery. *Amateur Gard.* 65(3380): 21. Feb. 22, 1949. 80 Am13
- 42770 STAUNING, A. Contract culture of berries. (In Danish.) *Gart.-Tid.* 65: 125-126. Mar. 23, 1949. 80 G192
- 42771 SUCKLING, W. T. Cultivated blueberries. *B. C. Farmer & Gard.* 4(8): 8; (9): 6. (Cont.) Jan.-Feb. 1949. 7 F86
- 42772 THERON, C. J. Grape varieties for future plantings. (In Afrikaans.) *Wynboer* 18(211): 20-23. Apr. 1949. 390.8 W724
- 42773 TINDALL, C. Big strawberry boost as new area develops. *Mo. Ruralist* 90(6): 6. Mar. 26, 1949. 6 R8891
- Includes culture in Missouri.



42774 TRABALZINI, N. "Lucernina" method of grape pruning. (In Italian.) Agr. Tosc. 4: 59-61. Feb. 1949. 16 Ag8263

42775 WILKINSON, C. Roll out the strawberry barrel. Woman's Day 12(7): 64-65. Apr. 1949. 321.8 W842

42776 WINKLER, A. J. Better Thompsons from past experience. Calif. Fruit & Grape Grower 3(3): 7-10. Mar. 1949. 95.8 G762

42777 WINKLER, A. J. Grapes and wine. Econ. Bot. 3: 46-70. Jan./Mar. 1949. 450 Ec7

42778 ZIELINSKI, Q. B. Grape variety situation in Oregon and evaluation of recently introduced varieties. Fruit Varieties & Hort. Digest 4: 15-22. Spring 1949. 80 F9464

#### Nuts

42779 BASTOS, A. DE M. Industrialization of the Pará chestnuts. (In Portuguese.) Brincar e Aprender 7(31): 2. Jan./Mar. 1949. 275.249 B77

42780 GLENN, E. M. More about walnuts, varieties and propagation. Fruit-Grower 107: 387-388. Mar. 31, 1949. 80 F941

42781 SMITH, G. L. Practical nut growing. Wassaic, N. Y., Benton & Smith Nut Tree Nursery, 1949. 60 p. 94.6 Sm5

42782 ROMANÉ-JAMES, MRS. C. Sweet chestnuts. Guild Gard. 24(3): 4. Mar. 1949. 80 G94

42783 U. S. PATENT OFF. Plant patent 833. Harris, R. A. Pecan tree. 2 p., 1 col. pl. Apr. 26, 1949. 156.65 P69

42784 VANDERWAEREN, R. The culture of hazelnuts. (In Flemish.) Tuinbouwberichten 13: 23-24. Feb. 15, 1949. 80 T817

42785 ZARUBIN, A. F. Change in the fruit of Juglans regia. (In Russian.) Priroda 37(12): 60. Dec. 1948. 410 P933

#### Shade Trees and Ornamental Plants

42786 AGLIANY, J. Le genre Platycerium. B. Hort. (n. s.) 4: 78-79. Mar. 1, 1949. 80 B873

42787 ALBERA, A. E. Preparation of the rose bed. Green Thumb 6(4): 8-9. Apr. 1949. 80 G82

42788 ALEXANDER, E. J. Wild flowers of our coastal lands. N. Y. Bot. Gard. J. 50: 49-54. Mar. 1949. 451 N48J

With an appendix, p. 55-57, giving common names.

42789 ALLARD, L. Popularizing the Chrysanthemum and building civic pride. Natl. Chrysanthemum Soc. B. 5: 10-12. Mar. 1949. 96.519 Ea7

42790 AMIDON, G. A. Building a rock garden. Green Thumb 6(3): 20-22. Mar. 1949. 80 G82

42791 ANDERSON, A. W. The blue border; choice perennials that provide this popular garden colour. New Zeal. Gard. 5: 442-451. Feb. 1, 1949. 80 N4822

42792 ANDERSON, K. H. National 4-H home grounds beautification. Amer. Assoc. Nurserymen. Proc. 73: 99-101. 1948. 81 Am3P

42793 ARNOLD, R. E. Masdevallia polysticta. Orchid Rev. 57: 40. Mar. 1949. 80 Or15

42794 ARNOLD, R. E. Purple splendour [Lasiandra macrantha]. Amateur Gard. 65(3384): 18. Mar. 22, 1949. 80 Am13

42795 ARNOLD, R. E. Some hardy Calanthes. Orchid Rev. 57: 45-47. Mar. 1949. 80 Or15

42796 AUDET, L. P. L'orme, roi de nos arbres d'ornement. Paysana 12: 8-9. Mar. 1949. 7 P29

42797 BABB, MRS. E. M. Rhododendron atlanticum in Maine. Amer. Rock Gard. Soc. B. 7: 10-11. Jan./Feb. 1949. 81 Am342

42798 BAILEY, R. How to plant for the passer-by. Home Gard. 13(4): 34-39. Apr. 1949. 80 H756

42799 BARNES, A. T. Pompon Dahlias. Amateur Gard. 65(3380): 14. Feb. 22, 1949. 80 Am13

42800 BARNES, C. T. Rose labels and maps. Amer. Rose Mag. 8: 195. Mar./Apr. 1949. 80 Am327A

42801 BARTON, E. V. Further notes on the orchids of the Western Wimmera. Victorian Nat. 65: 200. Dec. 1948. 410 V66

42802 BARTON, G. Consider the carnation. Smallholder 80(2030): 9. Feb. 25, 1949. 10 Sm1

42803 BARTON, MRS. G. W. W. The Barton calla lily Begonia. Begonian 16: 50-51. Mar. 1949. 96.511 B39

42804 BARTRUM, D. Easy plants for amateurs. Gard. Work Amateurs 69: 513-514. Feb. 26, 1949. 80 G1627

42805 BATSON, F. S. Azalea culture in the South; look to the soil. Plants & Gard. 5: 35-37. Spring 1949. 450 P694

42806 BEALE, J. H. Annuals for the flower garden. Rural New-Yorker 99: 164. Mar. 5, 1949. 6 R88

42807 BEDSON, F. J. Begonias in England. Begonian 16: 54-55. Mar. 1949. 96.511 B39

42808 BÉLENGER, E. Projet d'un jardin roseraie. B. Hort. (n. s.) 4: 48-49. Feb. 1, 1949. 80 B873

42809 BELSLEY, R. J. Iris observations in central and northern Illinois. Amer. Iris Soc. B. 112: 47-60. Jan. 1949. 81 Am39

42810 BERRY, MRS. C. F. How to grow miniature Dahlias from seed. Home Gard. 13(4): 19-23. Apr. 1949. 80 H756

42811 BERWICK, C. C. Geographical distribution of cool growing orchids. Orchid Digest 13: 314-315. Jan./Feb. 1949. 80 Or172

42812 BINDER, M., SIMPSON, W. J., and WAGNON, J. A survey of the frost hardiness of broadleaf evergreens. Pacific Coast Nurseryman 8(3): 10-12. Mar. 1949. 80 P116

42813 BISCHOFF, W. H. Hibiscus awakening. Horticulture 27: 135. Apr. 1949. 80 H787

42814 BLACK, W. J. F. Holly opaca. Prof. Gard. 1: 77. Mar. 1949. 80 P945

42815 BLACKBURN, B. Plant for permanence, Allegheny shadbush. Flower Grower 36: 334, 336. Apr. 1949. 80 M72

Amelanchier canadensis.

42816 BODDY, F. A. Coloured foliage plants for all purposes. North. Gard. 3: 59-63. Mar. 1949. 80 N816

42817 BOHM, F. J. Der blumenbau rührt sich. Gartenbauwirtschaft [Wien] 1949(2): 7-8. Feb. 15, 1949. 80 G1936

42818 BÖHM, F. J. Neu, und doch nichts neues. Gartenbauwirtschaft [Wien] 1949(1): 3-4. Jan. 15, 1949. 80 G1936

42819 BÖHM, F. J. Über blumen- und zierpflanzenbau. Gartenbauwirtschaft [Wien] 1948(11): 3-4. Nov. 15, 1948. 80 G1936

42820 BOSLEY, P. R. Fundamentals of the culture of Rhododendrons and Azaleas. Plants & Gard. 5: 33-35. Spring 1949. 450 P694

42821 BOSSARD, R. Pachysandra terminalis (Sieb. et Zucc.). Rev. Hort. [Paris] 120: 365. Dec. 1948. 80 R32

42822 BOUILLENNE, R., and BOUILLENNE-WALRAND, M. Le bouturage des Magnolias et des Conifères. B. Hort. (n. s.) 4: 67-73. Mar. 1, 1949. 80 B873

42823 BOURDEAU, N. E. Shrubs in landscape. Parks & Recreation 32: 213-215. Apr. 1949. 98.8 P23

42824 BOWERS, C. G. Distribution and classification of Rhododendrons. Plants & Gard. 5: 18-24. Spring 1949. 450 P694

42825 BOYCE, R. D. The native rock garden. Westralian Farmers' Co-op Gaz. 15(365): 11, 13-14. Jan. 1949. 280.28 W522

42826 BRAINARD, S. A. Indian Azaleas. Arboretum B. 12: 19-20, 34. Spring 1949. 451 Ar1

42827 BRAUN, O. El toborochi. Campo [La Paz] 2(20): 59-60. Dec. 1948. 9.1 C15

42828 BREDDY, N. C. Cymbidium cultivation. Amer. Orchid Soc. B. 18: 164-169. Mar. 1949. 80 Am329

42829 BREWERTON, H. Labour saving in modern gardens; the value of a heath garden. North. Gard. 3: 74-75. Mar. 1949. 80 N816

Erica.

42830 BROWN, E. My husband calls it puttering. Calif. Hort. Soc. J. 10: 53-58. Apr. 1949. 81 C1293

Care of the garden.

42831 BRUMM, F. Gedanken zur selbsternte von gehölzsamen. Süddeut. Erwerbsgärt. 3: 2-3. Jan. 1, 1949. 80 Su2

42832 BRUMM, F. Ist Rhus typhina im einzelstand selbststeril? Süddeut. Erwerbsgärt. 3: 54. Feb. 12, 1949. 80 Su2

42833 BRUNNER, L. W. Wild Flower Day in California, April 24. Wild Flower 25: 3-6. Jan. 1949. 451 W642



- 42834 BRYDON, P. H. *Rhododendron spinuliferum*. Amer. Rhododendron Soc. Q. B. 2(4): 6. Nov. 20, 1948. 81 Am398
- 42835 BUCKLEY, A. R. Notes from Ottawa. Canad. Gladiolus Soc. Ann. 1949: 76-79. 82 C164Q
- 42836 BULGARIA. MINISTRY OF FOREIGN AFFAIRS Bulgarian roses. Sofia, 1948. 15 p. 96.1 B87
- 42837 BURSTON, J. Flower show management and hints to exhibitors. Canad. Gladiolus Soc. Ann. 1949: 132-134. 82 C164Q
- 42838 BURTON, G. W. St. Augustine is shady lawn grass if properly fertilized. South. Seedsman 12(4): 15, 34. Apr. 1949. 61.8 So8
- 42839 BUSH, D. W. Plants landscape architects prefer. Amer. Nurseryman 89(7): 8, 54-55. Apr. 1, 1949. 80 Am371
- 42840 BUTT, L. W. Nothing new under the sun. Canad. Gladiolus Soc. Ann. 1949: 100-101. 82 C164Q
- 42841 BUXTON, B. R. Begonia developments. Horticulture 27: 140, 156-157. Apr. 1949. 80 H787
- Varieties.
- 42842 CANADIAN GLADIOLUS SOCIETY. 1949 annual. Guelph, Ont., 1948. 192 p. 82 C164Q
- 42843 CARNINE, A. A. Chrysanthemum perfection in your own garden. Northwest Gard. & Homes 17(2): 8-11. Apr. 1949. 80 N813
- 42844 CARSON, C. M. The South is planting tulips at last; you, too, can use this success program. Sun-up 3, 1. e. 4(2): 17, 30-31. Mar./Apr. 1949. 80 Su7
- 42845 CARTER, MRS. S. T., JR. Will Shakespeare, gardener. Gard. Club Amer. B. (ser. 11)13: 56-63. Mar. 1949. 90.32 G16
- 42846 CARTER, W. L. Bermuda's lily-growing industry. Crown Colonist 19: 214-215. Apr. 1949. 280.8 C88
- 42847 CASEY, J. Native plants you'll enjoy. Sheep & Goat Raiser 29(7): 35. Apr. 1949. 45.8 Sh3
- Gaillardia suavis, Melampodium cinereum.
- 42848 CASON, J. F. Variety ratings. Ill. Gladiolus Soc. Notebook 7(2): 4-6. Mar. 1949. 94.43 IL6N
- 42849 CASTBERG, K. S. Tiger lily [*Lilium tigrinum*] (In Norwegian.) Norsk Hagetidend 65: 44-45. Mar. 1/15, 1949. 80 N81
- 42850 CATCHPOLE, N. A lawn from turf. Amateur Gard. 65(3377): 14. Feb. 1, 1949. 80 Am13
- 42851 CHANSLER, W. S. Wild ginger [*Asarum canadense*]. Wild Flower 25: 8. Jan. 1949. 451 W642
- 42852 CHARON. La loi des couleurs appliquée à la décoration des jardins. Rev. Hort. de l'Algérie 53: 37-42. Jan. 1949. 87 R32
- 42853 CHEVALIER, C. Le genre Gypsophila. Rev. Hort. [Paris] 120: 295-297. Aug./Sept. 1948. 80 R32
- 42854 CHEVALIER, C. Plantes d'appartement. II-III. B. Hort. (n. s.) 4: 12-13, 22, 45-47. Jan.-Feb. 1949. 80 B873
- 42855 CHEVALIER, C. Les rosiers géraniums. B. Hort. (n. s.) 4: 76-77. Mar. 1, 1949. 80 B873
- 42856 CHEVALIER, H. Les jasmins. B. Hort. (n. s.) 4: 80-81. Mar. 1, 1949. 80 B873
- 42857 CHILDERS, P. E. Maintenance of greens in southern Arizona. Greenkeepers' Rptr. 17(2): 36. Mar./Apr. 1949. 60.18 G83
- 42858 CHOATE, M. B. Adventures in hybridizing. Begonian 16: 59-60. Mar. 1949. 96.511 B39
- 42859 CHRISMON, MRS. J. R. The showy Trilliums. Wild Flower 25: 7-8. Jan. 1949. 451 W642
- 42860 CLANEY, MRS. W. Grow your own. Minn. Hort. 77: 36. Mar. 1949. 81 M66
- Ornamental plants.
- 42861 CLARK, A. M. Strelitzia, the bird of paradise flower. Calif. Gard. 40: 6-8. Spring 1949. 80 C127
- 42862 CLOUD, K. M. P. Cities can have gardens, too! Amer. Home 41(5): 20, 22. Apr. 1949. 80 Am313
- 42863 COOK, L. J. Perpetual-flowering carnations. Pop. Gard. 50: 488. Feb. 19, 1949. 80 G1622
- 42864 COOPER, E. Some orchids from Annam. Orchid Rev. 57: 41-44. Mar. 1949. 80 Or15
- 42865 CORNWALL, T. S. Bench construction for Cypripediums. Amer. Orchid Soc. B. 18: 98. Feb. 1949. 80 Am329
- 42866 COX, A. E. Beauty by the year. Canad. Homes & Gard. 26(4): 40-41, 62-63. Apr. 1949. 296.8 C16
- Growing of annuals.
- 42867 COX, A. E. You can grow African violets. Canad. Homes & Gard. 26(3): 44. Mar. 1949. 296.8 C16
- 42868 CROOK, S. R. Gladiolus, uses and culture. Prof. Gard. 1: 42, 47. Feb. 1949. 80 P945
- 42869 CULPEPPER, D. Aristocratic slaves. Amer. Home 41(5): 40, 130. Apr. 1949. 80 Am313
- Camellias.
- 42870 DAKERS, J. S. Bulbs and the April garden. Homes and Gard. 30(10): 38, 70. Apr. 1949. 318.8 Ou7
- 42871 DAKERS, J. S. Gloxinias in cool houses. Amateur Gard. 65(3381): 15. Mar. 1, 1949. 80 Am13
- 42872 DAVIS, M. R. Fine gardening. Green Thumb 6(4): 10-12. Apr. 1949. 80 G82
- 42873 DELPLACE, E. Plantes vivaces rustiques à floraison d'automne. Acclimatation 76: 36. Feb. 12, 1949. 14 Ac2
- 42874 DELWORTH, C. My favourite Chrysanthemum, Little America. Chrysanthemum Soc. Amer. B. 17: 10-14. First Quart. 1949. 81 C46B
- 42875 DEWERTH, A. F. The culture of garden Chrysanthemums in Texas and the Southwest. Natl. Chrysanthemum Soc. B. 5: 5-7. Mar. 1949. 96.519 Ea7
- 42876 DIETERICH, H. Ein seltener winterblüher [*Hamamelis mollis*]. Süddeut. Erwerbsgärt. 3: 33. Jan. 29, 1949. 80 Su2
- 42877 DILL, M. H. Importance of landscape architecture in community planning. Washington, U. S. Ext. Serv., 1949. 4 p. 1.913 A2L23
- 42878 DOIG, J. S. Orchid culture. Prof. Gard. 1: 38-40. Feb. 1949. 80 P945
- 42879 DOME, A. P. Beginning with heather. Northwest Gard. & Homes 16(12): 12-14, 31. Feb. 1949. 80 N813
- Erica and Calluna.
- 42880 DOME, A. P. More about heathers. Northwest Gard. & Homes 17(2): 19-20, 38. Apr. 1949. 80 N813
- 42881 DORMON, C. Onward with Louisiana Irises. Amer. Iris Soc. B. 112: 61-64. Jan. 1949. 81 Am39
- 42882 DORT, H. W. V. Chrysanthemum cuttings. (In Dutch.) Bloemisterij 23(10): 5-6. Mar. 11, 1949. 80 B624
- 42883 DORT, H. W. V. Culture of single bulbs and tuberous plants under glass. (In Dutch.) Bloemisterij 22(46): 1-2. Nov. 12, 1948. 80 B624
- 42884 DORT, H. W. VAN. Lilies. (In Dutch.) Bloemisterij 22(52): 3-4. Dec. 24, 1948. 80 B624
- 42885 DOUGLAS, G. Growing auriculas from seeds and off-sets. Natl. Auricula and Primula Soc. (North. Sect.) Ybk. 1949: 17-20. 84 N213
- 42886 DOUMONT, L., and VALEMBERG, M. Les plantes grimpantes. Courrier Hort. 11: 118-119. Feb. 1949. 80 C834
- 42887 DOWDY, W. V. "Say it with flowers." Gard. Gateways 18(6): 6-7, 12. Feb. 1949. 90.32 G166
- Flower arrangement.
- 42888 DRUMMOND, A. Greenhouse Primulas. Prof. Gard. 1: 18. Jan. 1949. 80 P945
- 42889 DUNWELL, M. W. Teucrium, the perfect edging plant. House & Gard. 95(4): 202-203. Apr. 1949. 80 H81
- 42890 DUSTAN, A. L. Rhododendrons and Azaleas in the garden. Plants & Gard. 5: 45-49. Spring 1949. 450 P694
- 42891 EARLY, J. B. Glads in Peace River. Canad. Gladiolus Soc. Ann. 1949: 73-75. 82 C164Q
- 42892 EASTON, R. D. Rooting bush-size cuttings. Amer. Rose Mag. 8: 194. Mar./Apr. 1949. 80 Am327A
- 42893 EBERLE, G. Seidelbast [*Daphne mezereum*]. Natur u. Volk 79: 44-50. Feb. 1, 1949. 509 F856
- 42894 EDMUNDS, F. Just dig a hole and plant the rose. Sunday Oregonian, Farm, Home, Gard. 1949: 8. Mar. 20, 1949. 6 Su7
- 42895 EGBERTS, H. Preparation for treeplanting by means of explosives. (In Dutch.) In Boor en spade, p. 206-209. Utrecht, Oosthoek, 1948. 56.9 B64
- English summary.



- 42896 ELLIOTT, C. Should gardeners take wild plants? *Countryman* [Burford] 39: 64, 71-73. Spring 1949. 281.28 C832  
Care and handling.
- 42897 ELLIOTT, D. Cape Honey flowers. *Gard. Illus.* 66: 70-71. Apr. 1949. 80 G169  
*Protea*.
- 42898 ELLIOTT, D. Landscape gardening; your garden dreams. *New Zeal. Gard.* 5: 418-420. Feb. 1, 1949. 80 N4822
- 42899 ENE DE PIRO, M. Le Banksia. *Réveil Agr.* 58: 67-68. (To be cont.) Mar. 1, 1949. 14 R322
- 42900 EPSTEIN, H. Epimedium and Vancouveria. *Amer. Rock Gard. Soc. B.* 7: 1-4, 29-31. Jan./Feb.-Mar./Apr. 1949. 81 Am342
- 42901 EPSTEIN, H. There's real scope in a woodland rock garden. *Flower Grower* 36: 356-357, 382-383. Apr. 1949. 80 M72
- 42902 ESSON, J. G. Leatherwood [*Dirca palustris*] for early spring bloom. *N. Y. Bot. Gard. J.* 50: 57-59. Mar. 1949. 451 N48J
- 42903 EVERETT, T. H. Plant portraits [*Guzmania berteroniana*]. *Gard. Chron. Amer.* 53: 96. Apr. 1949. 80 G1632
- 42904 EVERITT, S. A. Dexter hybrid *Rhododendrons* *Plants & Gard.* 5: 55-57. Spring 1949. 450 P694
- 42905 EVISON, J. R. B. Shrubs with sweet perfume. *Amateur Gard.* 65(3380): 16-17. Feb. 22, 1949. 80 Am13
- 42906 EVREINOFF, V. A. La macre [*Trapa natans*]. *Rev. Hort. [Paris]* 120: 280. Aug./Sept. 1948. 80 R32
- 42907 FAIRBURN, D. C. Flask cultures. (Sum.) *Amer. Orchid Soc. B.* 18: 216-217. Apr. 1949. 80 Am329
- 42908 FAIRCHILD, L. M. Glads are easy but their few basic needs are important, and it pays to know what they are and how to provide them. *Flower Grower* 36: 350-351, 386-387. Apr. 1949. 80 M72
- 42909 FALCONER, A. The greenhouse *Primulas*. *Gard. Illus.* 66: 69. Apr. 1949. 80 G169
- 42910 FARRAND, B. The Azalea border. *Arnoldia* 9: 6-7. Apr. 15, 1949. 451 Ar6Ba
- 42911 FENDLEY, H. V. How green is your valley? *Canad. Homes & Gard.* 26(4): 87. Apr. 1949. 296.8 C16  
Care of the lawn.
- 42912 FENGER, G. Spring in the window sill. (In Danish.) *Tidsskr. for Husholdning* 28: 43-44. Apr. 6, 1949. 321.8 T43  
Care of house plants.
- 42913 FLACCOMIO, E. Schools for flower arrangement. (In Italian.) *Mezzogiorno Agr.* 5(11): 3. Mar. 13, 1949. 16 M57
- 42914 FLANDERS, N. Will your new farm home be a show place or an eye-sore? *Farm & Ranch Rev.* 45(3): 13. Mar. 1949. 7 F223  
Landscape gardening.
- 42915 FLEMING, W. To make greens greener; Iowa State scientists study golf course grasses. *Iowa Agriculturist* 47(8): 16, 23. Mar. 1949. 6 Io9
- 42916 FOSTER, H. L. A pattern of dwarfs. *Amer. Rock Gard. Soc. B.* 7: 26-29. Mar./Apr. 1949. 81 Am342
- 42917 FOSTER, W. Gladiolus notes; south Australian Gladiolus shows. *Austral. Gard. Lover* 24(10): 13, 15. Jan. 1, 1949. 80 G1615
- 42918 FOWLER, H. Sweet peas, an old French gardener's way of growing them. *Green Thumb* 6(4): 22-23. Apr. 1949. 80 G82
- 42919 FOX, H. M. Gardening with pots out-of-doors. *N. Y. Bot. Gard. J.* 50: 73-77. Apr. 1949. 451 N48J
- 42920 FRAIM, I. W. Facts to know about growing healthy Iris. *Flower Grower* 36: 362, 376-377. Apr. 1949. 80 M72
- 42921 FREE, M. Add *Ismene* to the list of fine summer bulbs. *Home Gard.* 13(4): 40-42. Apr. 1949. 80 H756
- 42922 FREE, M., and ROCKWELL, F. F. Begonia roll call for indoor gardens. *Home Gard.* 12(6): 45-54. Dec. 1948. 80 H756
- 42923 FREE, M. The best—and hardest—of the garden pinks. *Home Gard.* 12(6): 73-78. Dec. 1948. 80 H756
- 42924 FREE, M. First cut for spring roses. *Home Gard.* 13(4): 17-18. Apr. 1949. 80 H756
- 42925 FREE, M. How to plant a wall garden. *Home Gard.* 13(4): 47-57. Apr. 1949. 80 H756
- 42926 FRIEDRIGER. Die frühest blühende aller Paeonien, *Paeonia arborea*. *Gärt.-Kurier* 4(2): 1-2. Jan. 15, 1949. 80 G1942
- 42927 GALLET, T. Quelques plantes à fleurs odorantes. *B. Hort. (n. s.)* 4: 109-112, 114. Apr. 1949. 80 B873
- 42928 GATLEY, P. The sacred lotus [*Nelumbium speciosum*]. *My Gard.* 38: 263-264. Mar. 1949. 80 M995
- 42929 GAVREL, M. Culture florale en Hollande: Aalsmeer. *Rev. Hort. [Paris]* 120: 245-248. July 1948. 80 R32
- 42930 GAZANIAS—a symposium of experience. *Calif. Hort. Soc. J.* 10: 75-79. Apr. 1949. 81 C1293  
Contributions by H. I. Johnson, V. Reiter, Jr., H. Evans, and E. A. Howard.
- 42931 GILMOUR, J. S. L., and HANGER, F. E. W. Recent developments in the gardens at Wisley. *Roy. Hort. Soc. J.* 74: 133-144. Apr. 1949. 84 L84J
- 42932 GIRDLIAN, J. N. Notes on *Diets* (Moraea). *Calif. Hort. Soc. J.* 10: 65-67. Apr. 1949. 81 C1293
- 42933 GLAETZER, R. *Cypripediums*. *Orchid Digest* 13: 296-298, 315-316. Jan./Feb. 1949. 80 Or172
- 42934 GLAETZER, R. *Odontoglossum*, *Lycaste* and *Odontonia*. *Orchid Digest* 13: 311-312. Jan./Feb. 1949. 80 Or172
- 42935 GODDARD, J. H. Rooting cuttings of early *Chrysanthemums*. *Amateur Gard.* 65(3377): 13, 22. Feb. 1, 1949. 80 Am13
- 42936 GODDARD, J. H. Stopping *Chrysanthemums*. *Amateur Gard.* 65(3380): 15. Feb. 22, 1949. 80 Am13
- 42937 GORDON, E. T. *Cydonia japonica*. *Amateur Gard.* 65(3380): 18. Feb. 22, 1949. 80 Am13
- 42938 GORDON, E. T. In praise of *Primulas*. *Amateur Gard.* 65(3381): 16. Mar. 1, 1949. 80 Am13
- 42939 GORELL, E. Flowers—wild and tame. *Homes and Gard.* 30(10): 32-33, 77. Apr. 1949. 318.8 Ou7  
First of a series on flower arrangement.
- 42940 GOTTSALL, R., and GOTTSALL, W. Seedlings—pro and con. *African Violet Mag.* 2(3): 28-29. 1949. 80 Af8
- 42941 GRAHAM, D. G. Remarkable garden subjects. *Arboretum B.* 12: 21-22, 34-35. Spring 1949. 451 Ar1
- 42942 GRANT, J., and GRANT, C. Common mistakes to avoid when you landscape. *House Beautiful* 91(4): 156-157, 255. Apr. 1949. 296.8 H81
- 42943 GRANT, J., and GRANT, C. How to stage your tulip show. *House Beautiful* 91(5): 146, 246. May 1949. 296.8 H81
- 42944 GRAU, F. V. Things to come in turf management. *Greenkeepers' Rptr.* 17(2): 5-11. Mar./Apr. 1949. 60.18 G83
- 42945 GRAVES, G. *Chrysanthemums*; to make the most of them, treat them as annuals or divide and replant them in spring. *House & Gard.* 95(4): 204-206. Apr. 1949. 80 H81
- 42946 GREEN, A. E. Succulents for table gardens. *Nurseryman & Seedsman* 108: 726-728. Mar. 3, 1949. 80 N933
- 42947 GREY, C. H. Bulbs of summer and autumn. II. *North. Gard.* 3: 42-49. Feb. 1949. 80 N816
- 42948 GUILLAUMIN, A. Deux floraisons rares au Muséum. *Rev. Hort. [Paris]* 120: 279-280. Aug./Sept. 1948. 80 R32  
*Kalanchoe thyrsiflora* and *Agave falcata*.
- 42949 GUILLAUMIN, A. Le *Kalanchoe flammea* et ses hybrides. *Rev. Hort. [Paris]* 120: 222. July 1948. 80 R32
- 42950 HAGEN, K. Schutzmassnahmen zur erhaltung wertvolle bäume. *Hochsch. f. Bodenkultur in Wien. Jahrb.* (1947) 1(2): 191-194. 1948. 105.9 V67J
- 42951 HALL, G. W. An undisturbed corner. *Amateur Gard.* 65(3379): 14. Feb. 15, 1949. 80 Am13
- 42952 HAMBLIN, S. F. Old rose portraits. *Amer. Rose Mag.* 8: 199-200. Mar./Apr. 1949. 80 Am327A
- 42953 HANGER, F. *Camellias* are hardy. *Gard. Illus.* 66: 66-67. Apr. 1949. 80 G169
- 42954 HARMER, S. Growing roses in San Diego. *Calif. Gard.* 40: 3-4. Spring 1949. 80 C127



- 42955 HARRIS, E. R. Suit your individual needs. Amer. Rose Mag. 8: 186. Mar./Apr. 1949. 80 Am327A
- 42956 HARSHBARGER, G. Gladioli are sun-lovers. Household 49(4): 16, 99-101. Apr. 1949. 321.8 H813
- 42957 HART, H. W. Fancy leaved Caladiums. Begonian 16: 58-59. Mar. 1949. 96.511 B39
- 42958 HAWKES, A. D. Fifth international orchid show. Amer. Orchid Soc. B. 18: 242-249. Apr. 1949. 80 Am329
- 42959 HAWKES, A. D. Interesting orchids: Oncidium sarcodes. Orchid Digest 13: 312-314. Jan./Feb. 1949. 80 Or172
- 42960 HAWKES, A. D. Laelia thomsoniana. Orchid Digest 13: 305-307. Jan./Feb. 1949. 80 Or172
- 42961 HAWORTH-BOOTH, M. The rose as a shrub. Amateur Gard. 65(3379): 12. Feb. 15, 1949. 80 Am13
- 42962 HAY, T. Half-hardy annuals. Amateur Gard. 65(3379): 15. Feb. 15, 1949. 80 Am13
- 42963 HAY, T. Perennials for exhibition. Gard. Illus. 66: 68. Apr. 1949. 80 G169
- 42964 HERGENREDER, J. Lilacs at Cedar Hill Nursery. Prof. Gard. 1: 14. Jan. 1949. 80 P945
- 42965 HETHERINGTON, E. Cypripediums in southern California. Orchid Digest 13: 299, 316. Jan./Feb. 1949. 80 Or172
- 42966 HICKS, O. C. Home beautification contest in a rural community. II. Marit. Farmer and Co-op. Dairyman 1949: 5, 35. Apr. 5, 1949. 7 C77
- Landscape gardening and maintenance and repair of buildings.
- 42967 HIGGINS, E. B. Our wild flowers. Calif. Gard. 40: 9-10. Spring 1949. 80 C127
- 42968 HILLERY, W. O. On either side, the primrose. Northwest Gard. & Homes 16(12): 10-11, 30. Feb. 1949. 80 N813
- 42969 HOHMAN, H. J. Culture of Rhododendrons and Azaleas. Plants & Gard. 5: 24-28. Spring 1949. 450 P694
- 42970 HOLBROOK, A. Perennials in Alaska. Northwest Gard. & Homes 16(12): 18. Feb. 1949. 80 N813
- 42971 HOLLAND, L. J. Starting plants for early bloom. Green Thumb 6(4): 6-7. Apr. 1949. 80 G82
- 42972 HOLM, H. Blumenarbeiten für die weihnachtszeit. Süddeut. Erwerbsgärt. 2: 101-102. Nov. 15, 1948. 80 Su2
- 42973 HOPP, R. Landscaping the farm home. New England Homestead 122(5): 52. Mar. 12, 1949. 6 N442
- 42974 HOUGHTON, K. W. Insects do not trouble painted daisies. Horticulture 27: 142. Apr. 1949. 80 H787
- Pyrethrum.
- 42975 HOUT, A. VAN. Les plantes d'appartement. Courrier Hort. 11: 35-37. (To be cont.) Jan. 1949. 80 C834
- 42976 HOWLAND, J. E. But they look so small in the spring! House Beautiful 91(5): 143. May 1949. 296.8 H81
- 42977 HUDSON, R. G. How I grow tuberous Begonias successfully. Begonian 16: 53. Mar. 1949. 96.511 B39
- 42978 HUTSON, W. K. Have you heard about my Gladiolus? Canad. Gladiolus Soc. Ann. 1949: 68-72. 82 C164Q
- 42979 HUTTENLOCHER, F. Bowls you'll need for flower arranging. Better Homes & Gard. 27(8): 191. Apr. 1949. 80 F9424
- 42980 IHRIG, H. G. Rhododendron culture in the Pacific Northwest. Plants & Gard. 5: 31-32. Spring 1949. 450 P694
- 42981 INGALLS, N. M. For hanging shelves. Horticulture 27: 158. Apr. 1949. 80 H787
- Succulents in window gardens.
- 42982 INGWERSEN, W. Shrubs for the rock garden. Amateur Gard. 65(3377): 12. Feb. 1, 1949. 80 Am13
- 42983 INGWERSEN, W. When is it spring? My Gard. 38: 283-287. Mar. 1949. 80 M995
- 42984 IRGENS-MÖLLER, H. Corylopsis. (In Danish.) Haven 49: 56-57. Apr. 1949. 80 H29
- 42985 JACOB, C. Une plante ornementale économique: le rosier. Monit. Agr. 2(61): 19. Mar. 13, 1949. 14 M744
- 42986 JACOBS, H. L. How to save your trees; plan carefully and you can keep them healthy while your house is building. House & Gard. 95(4): 200. Apr. 1949. 80 H81
- 42987 JEFFRESS, C. H. How to care for your Easter plants. Begonian 16: 76. Apr. 1949. 96.511 B39
- 42988 JELITTO, C. R. Gedanken zur schnittblumennot. Süddeut. Erwerbsgärt. 2: 4-5. Jan. 1948. 80 Su2
- 42989 JENKS, M. A. Prize winning Begonias add interest to a shade garden. Begonian 16: 49, 65. Mar. 1949. 96.511 B39
- 42990 JENSEN, H. N. On Peperomia magnoliifolia and its varieties. (In Danish.) Gart.-Tid. 65: 68. Feb. 16, 1949. 80 G192
- 42991 JENSEN, H. N. Peperomia hybrida "Abbot Wilhelm." (In Danish.) Gart.-Tid. 65: 89-90. Mar. 2, 1949. 80 G192
- 42992 JOHNSON, A. T. The Lenten roses [Helleborus]. Amateur Gard. 65(3380): 17. Feb. 22, 1949. 80 Am13
- 42993 JOHNSON, M. P. The Christmas rose [Helleborus]. Home Gard. 12(6): 6-8. Dec. 1948. 80 H756
- 42994 JORDAHN, A. C. Palms suitable for patios and courtyards. Prof. Gard. 1: 72-74. Mar. 1949. 80 P945
- 42995 JOUGAN, E. Comment choisir et planter les rosiers nains. Acclimatation 76: 53. Mar. 5, 1949. 14 Ac2
- 42996 JOUGAN, E. Installation et plantation d'un mur fleuri. Acclimatation 76: 76. Mar. 26, 1949. 14 Ac2
- 42997 JOUGAN, E. Jardins de rocailles et murs fleuris. Acclimatation 76: 60. Mar. 12, 1949. 14 Ac2
- 42998 KALSER, J. Die Fuchsie als marktpflanze. Berufsgärt. 2(2): 6. Feb. 1949. 80 B463
- 42999 KAMMERER, E. L. Neglected American plants for American gardens. I-II. Morton Arboretum. B. Pop. Inform. 24: 5-12. Feb.-Mar. 1949. 99.9 M84
- 43000 KAY, R. Annuals for borders. My Gard. 38: 239-249. Mar. 1949. 80 M995
- 43001 KLAER, E. Suitable planting. (In Danish.) Haven 49: 51-52. Apr. 1949. 80 H29
- 43002 KIPP, J. E. Rex Begonias in Chilliwick, B. C. Begonian 16: 52. Mar. 1949. 96.511 B39
- 43003 KLABER, D. Encouragement for beginners. Amer. Rock Gard. Soc. B. 7: 8-10. Jan./Feb. 1949. 81 Am342
- 43004 KLABER, D. "How to make a rock garden." Amer. Rock Gard. Soc. B. 7: 31-32. Mar./Apr. 1949. 81 Am342
- 43005 KLEIN, L. G. 1948 G. G. C. [Gladiolus Growers' Council] test garden report. Canad. Gladiolus Soc. Ann. 1949: 50-52. 82 C164Q
- 43006 KLEINER, P. Excursions from Champex. Alpine Gard. Soc. Q. B. 17: 17-25. (To be cont.) Mar. 1949. 84 AL6
- 43007 KNEUKER, A. Hardy garden Chrysanthemums. Prof. Gard. 1: 74-75. Mar. 1949. 80 P945
- 43008 KOON, R. Annual flowers easy to grow. New England Homestead 122(5): 24, 25, 29. Mar. 12, 1949. 6 N442
- 43009 KROMDIJK, G. Un beau Begonia pour appartements: le Begonia rex. Courrier Hort. 10: 718. Dec. 1948. 80 C834
- 43010 KROMDIJK, G. Plantes grasses pour appartements. Courrier Hort. 11: 33-34. Jan. 1949. 80 C834
- 43011 KROMDIJK, G. Plantes vivaces, jolies et peu connues. Courrier Hort. 11: 104-105. Feb. 1949. 80 C834
- 43012 KROMDIJK, G. Zygocactus; plante idéale pour appartements. Courrier Hort. 10: 721. Dec. 1948. 80 C834
- 43013 KRUG, H. P. House plants. (In Portuguese.) Campo [Rio de Janeiro] 20: 31-32. Jan./Feb. 1949. 9.2 C15
- 43014 KUBISCHTA, F. Nocheinmal "Gladiolen." Gartenbauwirtschaft [Wien] 1948(11): 4. Nov. 15, 1948. 80 G1936
- 43015 KUMLIEN, L. L. Evergreens; how to choose them; how to plant them; how to care for them. Better Homes & Gard. 27(8): 296-298. Apr. 1949. 80 F9424



- 43016 LACY, MRS. S. Enjoyment of gardens. Gard. Gossip 24(3): 8, 18-19. Mar. 1949. 80 G1625
- 43017 LAMBERT, H. Papillon parfumé: le pois de senteur. B. Hort. (n. s.) 4: 50-52. Feb. 1, 1949. 80 B873
- 43018 LAMBERT, N. Planting a labour-saving herbaceous border. Pop. Gard. 50: 499, 504. Feb. 26, 1949. 80 G1622
- 43019 LANCASTER, B. F. Budding and top grafting Rhododendrons. Amer. Rhododendron Soc. Q. B. 2(4): 10-11. Nov. 20, 1948. 81 Am398
- 43020 LASHLEY, W. A. New bloom colors old walks again for garden week. Commonwealth 16(4): 11-12, 34. Apr. 1949. 280.8 C732 Virginia.
- 43021 LAUMONNIER, E. Albizzia julibrissin var. rosea = A. nemu. Rev. Hort. [Paris] 120: 337-338. Nov. 1948. 80 R32
- 43022 LAWTON, H. A timely warning, overwatering? African Violet Mag. 2(3): 32, 34. 1949. 80 Af8
- 43023 LEACH, A. A. Propagation of carnations. Prof. Gard. 1: 19. Jan. 1949. 80 P945
- 43024 LEATHERMAN, S. Begonia dregel, Begonian 16: 77. Apr. 1949. 96.511 B39
- 43025 LEMMON, R. S. How to avoid those garden pitfalls. Home Gard. 12(6): 20-23. Dec. 1948. 80 H756
- 43026 LEMMON, R. S. Let's face it, perennials aren't perennial. Home Gard. 13(4): 31-33. Apr. 1949. 80 H756
- 43027 LEMMON, R. S. Plant partners. 1. Combinations for rock gardens. Home Gard. 13(4): 10-16. Apr. 1949. 80 H756
- 43028 LENTZ, J. W. How to get good grass for public play. Pub. Works 80(3): 24-26. Mar. 1949. 290.8 M922
- 43029 LENTZ, J. W. How to grow grass on roadsides. Pub. Works 80(4): 30-32. Apr. 1949. 290.8 M922
- 43030 LEVISON, J. J. The home book of trees & shrubs; a complete guide to the design, planting, and care of the home grounds, with information on lawns, woodlands, flower borders, garden accessories, and the identification of trees. Ed. 2, completely rev., enl., and reset. New York, Knopf, 1949. 524 p. 97.3 L57
- 43031 LEWELING, H. F. The landscape architect and the client. Wis. Hort. 39: 234. Apr. 1949. 80 W752
- 43032 LEWIS, I. G. A lawn from seed. Amateur Gard. 65(3384): 14. Mar. 22, 1949. 80 Am13
- 43033 LICHTBUER, J. C. DE. À propos des semis de Bégonias, Gloxinias, etc. B. Hort. (n. s.) 4: 83. Mar. 1, 1949. 80 B873
- 43034 LICHTENTHALER, J. Do you grow Fuchsias? Begonian 16: 57. Mar. 1949. 96.511 B39
- 43035 LINANE, J. Berried shrubs on the small estate. Prof. Gard. 1: 15-16. Jan. 1949. 80 P945
- 43036 LINK, C. B. How to force Azaleas in the home greenhouse. Plants & Gard. 5: 38-40. Spring 1949. 450 P694
- 43037 LONGLEY, L. E. Pruning of shrubs. Minn. Hort. 77: 54-55. Apr. 1949. 81 M66
- 43038 LUCKING, W. New and unusual plants. Green Thumb 6(4): 14-15. Apr. 1949. 80 G82
- 43039 MACANDREWS, A. H. Spring care in the rose garden. Plants & Gard. 5: 6-9. Spring 1949. 450 P694
- 43040 MCCORMICK, M. The fragrant timber phlox [Phlox divaricata]. Green Thumb 6(3): 28. Mar. 1949. 80 G82
- 43041 MCCULLY, A. St. Brigid Anemone. Home Gard. 12(6): 27-29. Dec. 1948. 80 H756
- 43042 MCLEAN, D. W. What the fancier expects of the commercial Camellia grower. Pacific Coast Nurseryman 8(3): 9, 36-39. Mar. 1949. 80 P116
- 43043 MACLEOD, R. A. The continental Paphiopedilum species with solid green leaves. Amer. Orchid Soc. B. 18: 99-104. Ref. Feb. 1949. 80 Am329
- 43044 MACLEOD, R. A. The Paphiopedilums of the group polyantha. Amer. Orchid Soc. B. 18: 173-177. Ref. Mar. 1949. 80 Am329
- 43045 MACRAE, L. Plant flowering shrubs for most bloom-least work. Better Homes & Gard. 27(8): 40-41, 282. Apr. 1949. 80 F9424
- 43046 MACSELF, A. J. Some hardy ferns of easy culture. My Gard. 38: 277-281. Mar. 1949. 80 M995
- 43047 MAEKAWA, T., and MYODO, H. The cultivation of bulbs for exports in Hokkaido. I. On the division of lily bulbs. (In Japanese.) Hort. Assoc. Japan. J. 17: 139-145. Dec. 1948. 87 H78
- 43048 MARCUS, M. F. Chinese flower arrangement. House & Gard. 95(4): 193-194. Apr. 1949. 80 H81
- 43049 MARRIAGE, K. Trollius europaeus. Green Thumb 6(3): 15. Mar. 1949. 80 G82
- 43050 MARRIAGE, K. Two choice plants. Green Thumb 6(4): 13. Apr. 1949. 80 G82 Boykinia jamesi and Mertensia coriacea.
- 43051 MARSHALL, C. C. Gladiolus variety comments. Canad. Gladiolus Soc. Ann. 1949: 81-84. 82 C164Q
- 43052 MARSHALL, M. N. My experiences with roses. Green Thumb 6(3): 8-10. Mar. 1949. 80 G82
- 43053 MARTIN, C. T. Spring-flowering bulbs. Gard. Gateways 18(7): 1-2, 4. Mar. 1949. 90.32 G166
- 43054 MARVEL, E. J. How to plan your gardening. House & Gard. 95(4): 207, 210-211. Apr. 1949. 80 H81 Ornamentals.
- 43055 MATTHEWS, B. New carnations; some interesting New Zealand introductions. New Zeal. Gard. 5: 424-426. Feb. 1, 1949. 80 N4822
- 43056 MAURICE, J. Pernet-ducher: quelques notes sur les roses. Rev. Hort. de l'Algérie 52(9/10): 23-24. Dec. 1948. 87 R32
- 43057 MAYER, P. A. A garden from the Bible for N. W. gardeners. Northwest Gard. & Homes 17(2): 15-17. Apr. 1949. 80 N813
- 43058 MAZZOLANI, G. Le orchidee; manuale ad uso dei giardinieri e degli amatori [Orchids, a manual for gardeners and amateurs]. Roma, Ramo Editoriale Degli Agricoltori, 1949. 100 p. (Biblioteca per l'Insegnamento Agrario Professionale. Manuale, No. 158-159; v. 7-8, Serie 1948) 96.2 M45
- 43059 MEEHAN, S. M. Wall-trained trees. Parks & Recreation 32: 217. Apr. 1949. 98.8 P23
- 43060 MEEK, T. Primula farinosa at home. Natl. Auricula and Primula Soc. (North. Sect.) Ybk. 1949: 14-16. 84 N213
- 43061 MEFFRE, G. A propos de roses. Rev. Hort. de l'Algérie 53: 43. Jan. 1949. 87 R32
- 43062 MILLER, E. D. An inexpensive orchid case for amateurs. Amer. Orchid Soc. B. 18: 218-221. Apr. 1949. 80 Am329
- 43063 MILLER, F. C. My favorite flowers. Back Eden 15(6, i. e. 7): 5. Mar. 1949. 80 B12
- 43064 MILNE, F. E. Food for thought. Canad. Gladiolus Soc. Ann. 1949: 44-49. 82 C164Q
- 43065 MOORE, L. A. The next step with your trees and shrubs. Purdue U. Agr. Ext. B. 340, 10 p. 1948. 275.29 In2E Planting and care.
- 43066 MORGAN, R. Tulips in the Netherlands. Prof. Gard. 1: 44-45. Feb. 1949. 80 P945
- 43067 MORRISON, B. Y. The Glenn Dale Azaleas. Gard. Club Amer. B. (ser. 11)13: 24-27. Mar. 1949. 90.32 G16 Similar title in Plants & Gard. 5: 58-59. Spring 1949. 450 P694
- 43068 MORTON, R. J. Young perpetual carnations. Amateur Gard. 65(3379): 13. Feb. 15, 1949. 80 Am13
- 43069 MUIR, MRS. A. On the trail of the African violet in British Columbia. African Violet Mag. 2(3): 30-31. 1949. 80 Af8
- 43070 MUNRO, J. Cousin to the buttercup. Nurseryman & Seedsman 108: 1004-1005. Mar. 24, 1949. 80 N933 Aconitum.
- 43071 MURDOCK, H. Learn the artistic touch in arranging flowers. Ladies' Home J. 66(4): 234. Apr. 1949. 321.8 L12
- 43072 MURDOCK, H. Prize winning flower arrangements. Ladies' Home J. 66(4): 214. Apr. 1949. 321.8 L12
- 43073 NATIONAL flowers. Wild Flower 25: 16-18. Jan. 1949. 451 W642



- 43074 NAUMBURG, S., and NAUMBURG, R. E. In a home greenhouse. *Plants & Gard.* 5: 4-6. Spring 1949. 450 P694
- 43075 NEARING, G. G. Alpines from seeds. *Amer. Rock Gard. Soc. B.* 7: 24-26. Mar./Apr. 1949. 81 Am342
- 43076 NELSON, H. G. How to raise Fuchsias from seed. *Flower Grower* 36: 358-359, 388-389. Apr. 1949. 80 M72
- 43077 NEWMAN, I. New roses. *Calif. Hort. Soc. J.* 10: 59-64. Apr. 1949. 81 C1293
- 43078 NEYPES, E. C. The culture of azucena [*Poll-anthes tuberosa*] at the Central Luzon Agricultural School. *Cent. Luzon Agr. School. Monthly B. in Pract. Farming* 3(7): 2-3. Nov. 1948. 25 C33
- 43079 NORTH CAROLINA. UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. What makes your yard beautiful? *N. C. Agr. Col. Ext. C.* 335, 4 p. Jan. 1949. 275.29 N811
- 43080 NOTHHACKSBERGER, F. Grundlagen der garten- und grünflächengestaltung. *Hochsch. f. Bodenkultur in Wien. Jahrb.* (1947) 1(2): 123-136. 1948. 105.9 V67J
- 43081 NORTON, C. Old-fashioned tuberose. *Horticulture* 27: 137. Apr. 1949. 80 H787
- 43082 NORTON, C. Roses in the rockery. *Gard. Chron. Amer.* 53: 92. Apr. 1949. 80 G1632
- 43083 NUBOURGH, Y. L'architecte, l'urbaniste, le jardiniste. *Courrier Hort.* 10: 654-655, 715-717. Nov.-Dec. 1948. 80 C834
- 43084 OSMUN, A. H. If I could name but one rock garden plant. *Amer. Rock Gard. Soc. B.* 7: 12. Jan./Feb. 1949. 81 Am342
- 43085 OSTBO, E. Looking forward with Rhododendrons. *Arboretum B.* 12: 14, 33. Spring 1949. 451 Ar1
- 43086 OWENS, H. Civic improvement "roadside development." *Gard. Gateways* 18(6): 4-5. Feb. 1949. 90.32 G166
- 43087 PACKARD, C. E. Color variation in the flowers of *Tussilago*. *Turtos News* 27: 52. Feb. 1949. 442.8 T86
- 43088 PAGE, H. W. Annuals for cutting. *Amateur Gard.* 64(3381): 14. Mar. 1, 1949. 80 Am13
- 43089 PAGE, H. W. Cut flowers from the garden. *Amateur Gard.* 65(3384): 16-17, 26. Mar. 22, 1949. 80 Am13
- 43090 PAINE, K. T. Well-organized grass projects set up at Beltsville, Penn State. *Midwest Turf* 3(2): 5. Apr. 1949. 60.18 M58
- 43091 PALMER, E. F. Our variety symposium. *Canad. Gladiolus Soc. Ann.* 1949: 33-37. 82 C164Q
- 43092 PARKER, H. C. How I grow Dahlias. *Dahlia* 18: 3-4. Spring 1949. 80 D133
- 43093 PARKER, J. C. Naturalized Rhododendrons. *Plants & Gard.* 5: 50-54. Spring 1949. 450 P694
- 43094 PAUL, B. H. Why we grow annuals. *Wis. Hort.* 39: 233, 236. Apr. 1949. 80 W752
- 43095 PEARCE, R. D. It's smart to raise your hardy perennials from seed. *Flower Grower* 36: 360-361. Apr. 1949. 80 M72
- 43096 PEARCE, S. A. Hybrid Pentstemons. *Amateur Gard.* 65(3384): 17. Mar. 22, 1949. 80 Am13
- 43097 PEARCE, S. A. Propagating bedding plants. *Amateur Gard.* 65(3379): 14-15. Feb. 15, 1949. 80 Am13
- 43098 PEARSON, H. E. Effect of water quality on ornamental plants. *Amer. Water Works Assoc. J.* 41: 242-248. Mar. 1949. 292.9 Am32J
- 43099 PEARSON, H. E. Growing Begonias with Colorado River water. *Begonian* 16: 81-83. Apr. 1949. 96.511 B39
- 43100 PERRA, P. Le bouturage des plantes alpines. *Rev. Hort. [Paris]* 121: 19-21. Jan./Feb. 1949. 80 R32
- 43101 PERRY, F. Making a garden pool. *Amateur Gard.* 65(3377): 15. Feb. 1, 1949. 80 Am13
- 43102 PESMAN, M. W. Have you seen *Prinsepia*? *Green Thumb* 6(4): 7. Apr. 1949. 80 G82
- 43103 PESMAN, M. W. Wood exotics in Denver. *Green Thumb* 6(3): 4-7. Mar. 1949. 80 G82
- 43104 PETERSEN, J. Can we produce better bulbs? (In Danish.) *Gart.-Tid.* 65: 113-115. Mar. 16, 1949. 80 G192
- Chiefly on storage.
- 43105 PETERSON, M. M. The whys and wherefores of daffodils. *Gard. Gateways* 18(7): 7-8. Mar. 1949. 90.32 G166
- 43106 PHILLIPS, G. A. R. Back of the border plants. *Amateur Gard.* 65(3384): 16. Mar. 22, 1949. 80 Am13
- 43107 PHILLIPS, G. A. R. Delphiniums for exhibition. *Amateur Gard.* 65(3381): 17. Mar. 1, 1949. 80 Am13
- 43108 PIERCE, G. L. A better break for the small fry. *Ill. Gladiolus Soc. Notebook* 7(2): 8. Mar. 1949. 94.43 IL6N
- 43109 PLATT, MRS. C. Magnolias. *Gard. Club Amer. B.* (ser. 11)13: 79-84. Mar. 1949. 90.32 G16
- 43110 POOLE, A. L. New Zealand temperate trees. *Arboretum B.* 12: 8-10, 35. Spring 1949. 451 Ar1
- 43111 POOR, MRS. A. E. Garden design. *Gard. Club Amer. B.* (ser. 11)13: 47-50. Mar. 1949. 90.32 G16
- 43112 PROCKTER, N. J. Easily grown hedges. *Amateur Gard.* 65(3381): 16-17. Mar. 1, 1949. 80 Am13
- 43113 PROCKTER, N. J. Good evergreen climbers. *Amateur Gard.* 65(3380): 16. Feb. 22, 1949. 80 Am13
- 43114 PULLAR, A. Useful Cotoneasters; these bright and pretty shrubs are hardy, handsome and far too little known. *House & Gard.* 95(4): 163. Apr. 1949. 80 H81
- 43115 QUAIN, J. Taille des arbustes et arbrisseaux d'ornement. *J. de la France Agr.* 5: 168. Apr. 1/7, 1949. 14 J829
- 43116 QUARRELL, C. P. Cut flowers from herbaceous plants. *Fruit, Flower, & Veg. Trades' J.* 95(13): 14. Mar. 26, 1949. 80 F946
- 43117 QUARRELL, C. P. Growing Gladioli. *Fruit, Flower & Veg. Trades' J.* 95(10): 22. Mar. 5, 1949. 80 F946
- 43118 QUINLAN, L. E. Tidal wave of tulips. *Sun-up* 3, i. e. 4(2): 16, 29. Mar./Apr. 1949. 80 Su7
- 43119 RAUCH, A. Frühe blüher durch kleinstauden. I-II. *Gärt.-Kurier* 4(2): 3-4; (4): 3. Jan. 15, Feb. 15, 1949. 80 G1942
- 43120 REGAN, C. W. A gentian finds a steamheated apartment. *Alpine Gard. Soc. Q. B.* 17: 60-68. Mar. 1949. 84 AL6
- 43121 REGAN, C. W. *Myosotis rupicola*. *Amer. Rock Gard. Soc. B.* 7: 11-12. Jan./Feb. 1949. 81 Am342
- 43122 REINELT, F. The Samuelson Delphiniums: a report. *Calif. Hort. Soc. J.* 10: 68-70. Apr. 1949. 81 C1293
- 43123 REITER, K. *Dahlienschau in Düsseldorf*. *Süddeut. Erwerbsgärt.* 2: 123-124. Dec. 15, 1948. 80 Su2
- 43124 RICHARDS, V. M. Good news. *Back Eden* 15(6, i. e. 7): 8. Mar. 1949. 80 B12
- Hemerocallis varieties.
- 43125 RIDDLE, M. C. Iris in the Northwest. *Amer. Iris Soc. B.* 112: 29-37. Jan. 1949. 81 Am39
- 43126 RIFFARD, E. M. L'héliotrope. *Rev. Hort. de l'Algérie* 52(9/10): 22. Dec. 1948. 87 R32
- 43127 RILEY, M. T. The meaning of the Dahlia. *Dahlia* 18: 5-6. Spring 1949. 80 D133
- 43128 RINALDI, Z. The tulip, its races and their characters. (In Italian.) *Riv. della Ortoflorofruttic. Ital.* 32: 149-153. Sept./Oct. 1948. 86 R22
- 43129 RIPLEY, D. Three days at Leadville. *Alpine Gard. Soc. Q. B.* 17: 26-59. Mar. 1949. 84 AL6
- 43130 ROBERSON, F. K. Waterside plants. *Arboretum B.* 12: 23-24, 33. Spring 1949. 451 Ar1
- 43131 ROBERT, E. Le *Nepeta mussini*, plante mellifère, de bordure et de rocaille. *Rev. Hort. [Paris]* 120: 281. Aug./Sept. 1948. 80 R32
- 43132 ROBINSON, C. Gladioli are easy to grow. *Canad. Homes & Gard.* 26(4): 78, 82. Apr. 1949. 296.8 C16
- 43133 ROBINSON, C. The rock garden. *Canad. Homes & Gard.* 26(4): 118, 120-121. Apr. 1949. 296.8 C16
- Construction.
- 43134 ROCKWELL, F. F. How to make better bouquets. *Home Gard.* 13(4): 60-66. Apr. 1949. 80 H756



- 43135 ROCKWELL, F. F. You stored them away, but will they keep? Home Gard. 12(6): 43-44. Dec. 1948. 80 H756  
Bulbs.
- 43136 RODRIGUEZ, J. V. Martynia annua L. Costa Rica. Mus. Nac. B. 2: 11-13. Nov. 1948. 516 Sa53B
- 43137 ROEKENS, F. Helianthèmes. Courrier Hort. 11: 38-39. Jan. 1949. 80 C834
- 43138 ROMANNE-JAMES, C. Wild flowers and garden outcasts. My Gard. 38: 288-292. Mar. 1949. 80 M995
- 43139 RONCART, R. Le lis royal (Lilium regale E. H. Wilson 1912). B. Hort. (n. s.) 4: 14-15. Jan. 1, 1949. 80 B873
- 43140 ROOZEN, L. Agriculture in other lands; bulbs in Holland. Queensland Prod. 30(28): 2-3. Jan. 5, 1949. 23 Q35
- 43141 ROSENHAHN, H. Grundbegriffe der vererbungs- und züchtungslehre im blumensamenbau. Gartenfreund f. Junggärt. 1(3): 1-8. (To be cont.) Mar. 1948. 80 G1935
- 43142 ROWNTREE, L. The possibilities of lupines. Calif. Hort. Soc. J. 10: 44-52. Apr. 1949. 81 C1293
- 43143 ROYAL HORTICULTURAL SOCIETY. TULIP NOMENCLATURE COMMITTEE. A classified list of tulip names. London, 1948. 147 p. 96.49 R81C
- 43144 RUSSELL, J. P. C. Hardy evergreen Azaleas for the garden. Roy. Hort. Soc. J. 74: 144-153. Apr. 1949. 84 L84J
- 43145 SANDER, O. Die bedeutung des liches für die stecklingsvermehrung. Süddeut. Erwerbsgärt. 3: 58-59. Feb. 12, 1949. 80 Su2
- 43146 SAVAGE, P. J., JR. Lucky mix-up. Gard. Chron. Amer. 53: 102. Apr. 1949. 80 G1632  
Quercus serrata.
- 43147 SAWADA, K. Oriental Magnolias in the South. Gard. Gateways 18(6): 1-2, 8. Feb. 1949. 90.32 G166
- 43148 SAXE, R. E. Growing auriculas in California. Natl. Auricula and Primula Soc. (North. Sect.) Ybk. 1949: 28-30. 84 N213
- 43149 SCHEFFER, T. H. Additional aquatic plant species of the Grand Coulee, Washington. Arboretum B. 12: 25, 44. Spring 1949. 451 Ar1
- 43150 SCHNIZER, M. G. When it comes to problems, the U. N. has nothing on us gardeners. And still we go in for gardening in a big way. Why? Amer. Home 41(5): 133-135, 150. Apr. 1949. 80 Am313
- 43151 SCOTT, E. L. The first 100. Natl. Chrysanthemum Soc. B. 5: 15-17. Mar. 1949. 96.519 Ea7
- 43152 SCOTT, E. L. Spring propagation of Chrysanthemums. Plants & Gard. 5: 10-12. Spring 1949. 450 P694
- 43153 SCOTT, L. Decorative exhibits. New Zeal. Gard. 5: 429-431. Feb. 1, 1949. 80 N4822
- 43154 SEATON, H. E. Brilliant heath borders for all Guild Gard. 24(3): 12. Mar. 1949. 80 G94
- 43155 SEYMOUR, E. L. D., and others. Favorite flowers in color. With 300 four-color photos. New York, Wise, 1949. 634 p. 96.025 Se9  
H. E. Downer, P. F. Frese, J. G. Esson, and T. H. Everett, joint authors.
- 43156 SEYMOUR, E. L. D. 352 medals in 10 years. Amer. Home 41(5): 136-140. Apr. 1949. 80 Am313  
American Home Achievement medal given for better garden flowers.
- 43157 SHEWELL-COOPER, W. E. Planning an alpine house; opportunities of growing rare and beautiful plants. Field 193: 243. Feb. 26, 1949. 10 F45
- 43158 SHEWELL-COOPER, W. E. Rhododendrons and Azaleas. Field 193: 331. Mar. 19, 1949. 10 F45
- 43159 SIEBERT, J. W. Gladiolus arrangements. Canad. Gladiolus Soc. Ann. 1949: 108-109. 82 C164Q
- 43160 SIEBERT, J. W. Small decoratives. Canad. Gladiolus Soc. Ann. 1949: 102-103. 82 C164Q
- 43161 SILVA BARRIOS, F. A. Cultivo y multiplicacion de flores en macetas. Campo y Suelo Argentino 32 (387): 56-58, 62. Jan. 1949. 9 C15
- 43162 SIMONS, A. J. Annuals for the greenhouse. Gard. Work Amateurs 69: 494, 510. (Cont.) Feb. 19-26, 1949. 80 G1627
- 43163 SIMONS, A. J. Cascade Chrysanthemums: the art of growing and training them. Gard. Work Amateurs 69: 566-567. Mar. 12, 1949. 80 G1627
- 43164 SIMONS, A. J. Colourful Cinerarias. Gard. Work Amateurs 69: 565, 567. Mar. 12, 1949. 80 G1627
- 43165 SKINNER, F. L. Breeding for hardiness. Amer. Rose Mag. 8: 197. Mar./Apr. 1949. 80 Am327A
- 43166 SKINNER, H. T. Propagation of Rhododendrons and Azaleas. Plants & Gard. 5: 13-17. Spring 1949. 450 P694
- 43167 SKRDLA, W. Turf aggregates under test in replacing hard surfacing by Purdue University agronomists. Midwest Turf 3: 2, 4. Jan. 1949. 60.18 M58
- 43168 SMIRNOW, L. New look in Dahlias. Gard. Chron. Amer. 53: 89, 95. Apr. 1949. 80 G1632
- 43169 SMITH, MRS. A. H. Do your flower arrangements look well on all sides? House Beautiful 91(4): 98, 100. Apr. 1949. 296.8 H81
- 43170 SMITH, MRS. A. H. Which flowers "go" together. House Beautiful 91(5): 196, 199. May 1949. 296.8 H81
- 43171 SMITH, H. Be adventurous and aim at happy plant associations. Pop. Gard. 50: 501, 504. Feb. 26, 1949. 80 G1622
- 43172 SNIDER, S. Midsummer bloom. Gard. Gos-sip 24(3): 9. Mar. 1949. 80 G1625
- 43173 SPAIN, R. L. Bulbous plants for summer flowering. Gard. Chron. Amer. 53: 94-95. Apr. 1949. 80 G1632
- 43174 SPICER, O. W. You, too, can dream up a woodland Eden. Flower Grower 36: 344-346. Apr. 1949. 80 M72
- 43175 SPRING, J. W., JR. Neglected species tulips. Horticulture 27: 147-148. Apr. 1949. 80 H787
- 43176 STAUTEMAS, E. Sansevieria. (In Flemish.) Tuinbouwberichten 13: 27, 26. Feb. 15, 1949. 80 T817
- 43177 STEELE, T. A. Grass—a wearing surface for airport landings and taxistrips in the Northwest. (Abs.) Northwest Sci. 22: 36-38. Feb. 1948. 470 N81
- 43178 STEEVES, L. Wild flower conservation. Canad. Gladiolus Soc. Ann. 1949: 87-88. 82 C164Q
- 43179 STEFFEN, A. Eine wertvolle schnittblume [Helianthus sparsifolius]. Süddeut. Erwerbsgärt. 3: 53-54. Feb. 12, 1949. 80 Su2
- 43180 STEIN, H. Poinsettia. (In Dutch.) Bloemisterij 22(52): 1-2. Dec. 24, 1948. 80 B624
- 43181 STEINER, M. L. Philippine ladyslippers [Paphiopedilum]. Amer. Orchid Soc. B. 18: 80-83. Feb. 1949. 80 Am329  
From Philippine Orchid Review, v. 1, No. 1.
- 43182 STEVENSON, J. B., and MAHER, J. Chrysanthemum propagation and planting. Grower [London] 31: 601. Mar. 26, 1949. 286.83 M34
- 43183 STEVENSON, J. B. Early flowering Chrysanthemums. Roy. Hort. Soc. J. 74: 165-169. Apr. 1949. 84 L84J
- 43184 STEWART, V. Three non-invasive growers. Amer. Rock Gard. Soc. B. 7: 22-23. Mar./Apr. 1949. 81 Am342  
Adenophora nikoensis, Arabis blepharophylla, and Ranunculus gramineus.
- 43185 STRANDER, J. B. Evergreen of the month—Douglas fir. Northwest Gard. & Homes 16(12): 17, 39. Feb. 1949. 80 N813
- 43186 STRICKLEN, G. M. House plants. Prof. Gard. 1: 49. Feb. 1949. 80 P945
- 43187 SULLIVAN, P. A Sunday gardeners' plant. Begonian 16: 52-53. Mar. 1949. 96.511 B39
- 43188 SUTCLIFFE, A. Grow them in your rock garden; dwarf Iris in variety. Horticulture 27: 143, 165. Apr. 1949. 80 H787
- 43189 SWAFFIELD, W. R. Comments from "P. A." [Prince Albert, Saskatchewan]. Canad. Gladiolus Soc. Ann. 1949: 38-41. 82 C164Q
- 43190 TASSY, L. Les variétés de glaïeuls. Réveil Agr. 58: 68-69. Mar. 1, 1949. 14 R322
- 43191 TAYLOR, J. C. Growing Gladiolus seedlings. Canad. Gladiolus Soc. Ann. 1949: 89-93. 82 C164Q
- 43192 THACHER, MRS. A. B. The line of beauty. Gard. Club Amer. B. (ser. 11) 13: 33-34. Mar. 1949. 90.32 G16  
Flower arrangement.
- 43193 THÉBAUD, H. Un jardin d'aujourd'hui. Rev. Hort. [Paris] 121: 17-18. Jan./Feb. 1949. 80 R32



- 43194 THOM, D. Renewed interest in popular plants. Prof. Gard. 1: 12-13. Jan. 1949. 80 P945
- 43195 THOMAS, J. E. Southern turf maintenance. Greenkeepers' Rptr. 17(2): 16-17. Mar./Apr. 1949. 60.18 G83
- 43196 TIEMANN, O. R. The cutting garden. House-hold 49(4): 96-98. Apr. 1949. 321.8 H813
- 43197 TIEMANN, O. R. Native charmers. Back Eden 15(6, i. e. 7): 1-2. Mar. 1949. 80 B12
- 43198 TISCORNIA, J. R. Plantas convenientes para jardines de los alrededores de Bs. Aires. Campo y Suelo Argentino 32(387): 36-37. Jan. 1949. 9 C15
- 43199 TRAMBUSTI, P. Carnations from Versilia. (In Italian.) Riv. della Ortoflorofruttic. Ital. 32: 191-193. Nov./Dec. 1948. 86 R22
- 43200 TREYVE, F. Saules et peupliers (provenant de M. Dode, aux Thiolllets, par Sorbier (Allier). Rev. Hort. [Paris] 120: 363-364. Dec. 1948. 80 R32
- 43201 TRUAX, D. V. "Hardy" is the word for Texas mums. Natl. Chrysanthemum Soc. B. 5: 25-26. Mar. 1949. 96.519 Ea7
- 43202 TYNDALE, W. F. The rose garden. North. Gard. 3: 69-73. Mar. 1949. 80 N816
- 43203 TYSON, J. Turf research in Michigan. Mid-west Turf 3(2): 3-4. Apr. 1949. 60.18 M58
- 43204 U. S. PATENT OFF. Plant patents. 3 Nos. 1949. 156.65 P69  
Contents: 831. Clarke, W. B. Lilac plant. 1 p., 1 col. pl. Apr. 12; 832. Clarke, W. B. Lilac plant. 1 p., 1 col. pl. Apr. 12; 834. Howard, H. Rose plant. 1 p., 1 pl. Apr. 26.
- 43205 URQUHART, B. Trees of our roadsides. Country Life [London] 105: 684. Mar. 25, 1949. 80 C83
- 43206 VACHEROT, M. Les orchidées au jour le jour. I-II. Rev. Hort. [Paris] 120: 227-228, 255-256. July-Aug. 1948. 80 R32
- 43207 VACIN, E. Changes in pH in orchid culture media. Orchid Digest 13: 301-305. Jan./Feb. 1949. 80 Or172
- 43208 VAN KONYENBURG, J. Early-flowering bulbs. Amateur Gard. 65(3380): 16. Feb. 22, 1949. 80 Am13
- 43209 VAN MELLE, P. J. How to make the most of your broad-leaf evergreens. Home Gard. 12(6): 9-16. Dec. 1948. 80 H756
- 43210 VAN MELLE, P. J. Rare and lovely, the lace-bark pine [Pinus bungeana]. Home Gard. 13(4): 24-25. Apr. 1949. 80 H756
- 43211 VICK, A. F. W., JR. How about a wild garden? Flower Grower 36: 338-339. Apr. 1949. 80 M72
- 43212 WALKER, C. F. Straw without bricks. Alpine Gard. Soc. Q. B. 17: 88-93. Mar. 1949. 84 AL6  
Rock gardens.
- 43213 WALLACE, G. V. Some interesting cousins of the pink "Amaryllis." Calif. Hort. Soc. J. 10: 72-74. Apr. 1949. 81 C1293
- 43214 WANDL, H. Kultur und treiberei der veillchen. Gärt.-Kurier 4(4): 1-2. Feb. 15, 1949. 80 G1942
- 43215 WAUSER. A propos de Dahlias. Courier Hort. 10: 667-669. Nov. 1948. 80 C834
- 43216 WEBB, F. R. How to prune your rose bushes. House Beautiful 91(4): 250-251. Apr. 1949. 296.8 H81
- 43217 WELLS, J. B. Border carnations and picotees. Amateur Gard. 65(3379): 13. Feb. 15, 1949. 80 Am13
- 43218 WENDELING, J. Etwas über die geschichte und den nutzen der kakteen. II. Gartenbauwirtschaft [Wien] 1948(10): 7. Oct. 15, 1948. 80 G1936
- 43219 WHERRY, E. T. Exploring for Phlox, 1948. Amer. Rock Gard. Soc. B. 7: 5-8. Jan./Feb. 1949. 81 Am342
- 43220 WHERRY, E. T. The first wild flowers of the northern spring. Frontiers 13: 98-101. Apr. 1949. 410 F92
- 43221 WHILLIS, J. The best annuals for cutting. Smallholder 80(2030): 13. Feb. 25, 1949. 10 Sml
- 43222 WILCOX, R. S. Easier-to-grow roses. Farmer [St. Paul], Gen. Ed. 67(5): 48-49. Mar. 5, 1949. 6 F2211
- 43223 WILDE, E. I. Dwarf Phlox. Organic Gard. 14(4): 40-42. Apr. 1949. 56.8 Or3
- 43224 WILLIAMS, M. Germination of redbud seeds. Calif. Hort. Soc. J. 10: 70-72. Apr. 1949. 81 C1293
- 43225 WILSON, A. Good blues for California gardens. Home Gard. 12(6): 40-42. Dec. 1948. 80 H756
- 43226 WILSON, C. E., JR. Cypripedium culture. Orchid Digest 13: 296. Jan./Feb. 1949. 80 Or172
- 43227 WILSON, F. C. Annuals for various purposes. Gard. Chron. Amer. 53: 93, 97. Apr. 1949. 80 G1632
- 43228 WILSON, F. C. Good general garden practice grows quality roses. Horticulture 27: 159-160. Apr. 1949. 80 H787
- 43229 WIMMER, L., and WIMMER, E. Summering Begonias in Kansas. Begonian 16: 79-80. Apr. 1949. 96.511 B39
- 43230 WOOD, E. I. Small trees for small places. Canad. Homes & Gard. 26(4): 102-103. Apr. 1949. 296.8 C16
- 43231 WOODROFFE, F. B. The man next door will envy you; prove you're a showman; the secret of smash color effects is not in what your flowers cost, but in which stands next to what. Better Homes & Gard. 27(8): 38-39. Apr. 1949. 80 F9424
- 43232 WORTH, C. R. Seed collecting in garden and wild. Amer. Rock Gard. Soc. B. 7: 19-22. Mar./Apr. 1949. 81 Am342
- 43233 WRIGHT, MRS. I. C. Must it be so? Gard. Club Amer. B. (ser. 11)13: 30-33. Mar. 1949. 90.32 G16  
Flower arrangement.
- 43234 WYMAN, D. Not more varieties but better ones. Horticulture 27: 133. Apr. 1949. 80 H787  
Ornamentals.
- 43235 WYMAN, D. The oriental crab apples, excellent ornamentals. Gard. Chron. Amer. 53: 90-91, 103. Apr. 1949. 80 G1632
- 43236 YAGER, L. Flowers, vines, and garden ornaments. Dak. Farmer 69(6): 8. Mar. 19, 1949. 6 D14

#### Vegetable and Truck Crops (Including Potatoes)

- 43237 ABEIJON VELOSO, J. Consejos para escoger la patata seleccionada de siembra. Campiña 4(30): 2. Jan. 1949. 15 C152
- 43238 ALPAT'EV, A. V. Methods of selection and seed production of tomatoes. (In Russian.) Agrobiologia 1948(4): 109-117. July/Aug. 1948. 20 Ag822
- 43239 ANDRIBET, P. Le choix des variétés de pommes de terre. Agr. Charentais 3(8): 1-2. Sept. 1948. 14 Ag825
- 43240 ANDRIST, R. K. Your vegetable garden step by step. Better Homes & Gard. 27(8): 308-311. Apr. 1949. 80 F9424
- 43241 BALDONI, R. Experiments in the utilization of heterosis in tomato culture. (In Italian.) Indus. Ital. delle Conserve 23: 37-46. Apr./June 1948. 389.8 In23
- 43242 BARTON, G. Some aspects of melon culture. Fruit-Grower 107: 255-256. Mar. 3, 1949. 80 F941
- 43243 BAUDEWIJN, J. La culture du champignon. Rev. de l'Agr. 2: 3-18. Jan. 1949. 13 R322
- 43244 BENNETT, T. A. Potato growing extraordinary. Smallholder 80(2032): 7. Mar. 11, 1949. 10 Sml
- 43245 BENTLEY, G. M. List of certified sweet potato growers, 1948/49. Tenn. Dept. Agr. Div. Insect and Plant Dis. Control. B. 103, 5 p. 1949. 423 T25
- 43246 BLIN, H. Comment on blanchit le pissenlit. Acclimatation 76: 78. Mar. 26, 1949. 14 Ac2
- 43247 BLIN, H. Transplantation, récolte et conservation de la patate douce. Acclimatation 76: 60. Mar. 12, 1949. 14 Ac2
- 43248 BÖHM, F. J. Eine randbemerkung zum zwiebelanbau 1948. Gartenbauwirtschaft [Wien] 1949(1): 5. Jan. 15, 1949. 80 G1936
- 43249 BÖHM, F. J. Zuckermelonen—vielleicht doch. Gartenbauwirtschaft [Wien] 1949(2): 6-7. Feb. 15, 1949. 80 G1936
- 43250 BOISJAN, J. La tétragone remplace les épinards en été. Libération Paysanne 5(206): 3. Mar. 24, 1949. 14 L61
- 43251 BONNICEL, R. Chez les producteurs de pommes de terre, evolution et tendances. Agriculture [Paris] 13: 31-32. Feb. 1949. 14 Ag823
- 43252 BRANDE, F. VAN DEN. En culture maraichère. Courier Hort. 10: 726. Dec. 1948. 80 C834



- 43253 BUCHINGER, A. Kürbiszüchtung. Bodenkultur 2: 10-27. Ref. 1948. 19 B635
- 43254 BURROUGHS, R. D. Wild greens. Mich. Conserv. 18(2): 13-14. Mar./Apr. 1949. 279.9 M582
- 43255 CALLBECK, L. C. Potato vine killing in Prince Edward Island. (Abs.) Amer. Potato J. 26: 91. Mar. 1949. 75.8 P842
- 43256 CAMPBELL, J. A. Henderson bush leads in lima bean variety tests. Miss. Farm Res. [Miss. Sta.] 12(3): 8. Mar. 1949. 100 M69Mi
- 43257 CARLETON, R. M. Better vegetables with less work. Flower Grower 36: 352-353, 402-405. Apr. 1949. 80 M72
- 43258 CASE, J. F. Story of the potato. Mo. Ruralist 90(5): 30. Mar. 12, 1949. 6 R8891
- 43259 CHERNOMAZ, P. A. Methods of planting, irrigation and summer planting of potatoes. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Polev. Opytn. Stants. Iz Rezul't. Rabot 1945/46: 127-137. 1948. 64.9 M85
- 43260 CHILD, R., and NATHANAEL, W. R. N. A note on bandakka (Hibiscus esculentus, L.) as a source of edible oil. Trop. Agr. [Ceylon] 104: 79-80. Apr./June 1948.
- 43261 CHOPINET, R., and TREBUCHET, G. Essai de classification et d'identification des principales variétés de haricots cultivés en France. Rev. Hort. [Paris] 120: 230-243, 257-266. July-Aug. 1948. 80 R32
- 43262 COLLINS, J. H. Coated seeds—will they cut costs? West. Grower & Shipper 20(4): 9, 39, 42-44, 46. Mar. 1949. 280.38 W52
- Vegetables.
- 43263 CONDELLI, F. Contribution to the characterization of the late cauliflower of Fano. (In Italian.) Riv. della Ortoflorofruttic. Ital. 32: 147-148. Sept./Oct. 1948. 86 R22
- 43264 CORNELI SEED COMPANY. RESEARCH DEPT. Tomatoes by direct seeding. Ed. 3. St. Louis, 1949. 23 p. 91.58 C81
- 43265 CORRELL, D. S. Collecting wild potatoes in Mexico. U. S. D. A. C. 797, 40 p. Dec. 1948. 1 Ag84C
- 43266 CRAWFORD, W. G. Brussels sprouts a valuable winter crop in Otago. New Zeal. J. Agr. 78: 59-62. Jan. 15, 1949. 23 N48J
- 43267 DALLAKIAN, G. B. All-Union Conference on Onion Seed Production. (In Russian.) Selek. i Semen. 15(9): 74-76. Sept. 1948. 61.9 Se5
- 43268 DALLAKIAN, G. B. To improve onion seed production. (In Russian.) Sad i Ogorod 1948(9): 19-21. Sept. 1948. 87 Sa1
- In U. S. S. R.
- 43269 DEMESMAY, H. Le plant français de pommes de terre. Potasse 163: 58-59. Mar. 1949. 57.8 P84
- Also in Prog. Agr. et Vitic. 1949: 164-165. Mar. 20/27, 1949. 14 P94
- 43270 DEMPSEY, P. W. Grow your own sugar peas. New England Homestead 122(5): 15, 35. Mar. 12, 1949. 6 N442
- 43271 DUNLAP, W. H. Close-order rows make the big potato yields. East. States Coop. 25(3): 11. Mar. 1949. 280.28 Ea7
- 43272 EARL, A. Let's grow vegetables. Canad. Homes & Gard. 26(4): 36-39. Apr. 1949. 296.8 C16
- 43273 EDEN, C. A. M. Winter vegetables. Gard. Club Amer. (ser. 11) 13: 44. Mar. 1949. 90.32 G16
- Vegetable growing.
- 43274 EPPS, J. M., and SHERBAKOFF, C. D. Wilt detours Miles melons. South. Seedsman 12(4): 13. Apr. 1949. 61.8 So8
- 43275 ERENER, M. Genel sebzeçilik [Vegetable culture]. Istanbul, Kader Basimevi, 1948. 75 p. 91 Er3
- 43276 FARRALL, A. W. Infra-red rays for controlling frost in cucumber fields. (Abs.) Fruit Prod. J. & Amer. Food Mfr. 28: 211. Mar. 1949. 389.8 F94
- 43277 FLAWN, L. N. Tomatoes from June to October. Amateur Gard. 65(3379): 20. Feb. 15, 1949. 80 Am13
- 43278 FRASER, R. R., HARDIN, L. S., and NICTER, A. M. Pointers on tomato picking. Purdue U. Agr. Ext. B. 337, 11 p. 1948. 275.29 In2E
- Have also edition in Spanish.
- 43279 FRIEDRICH, H. Zur frage des kartoffelpflanzgutwechsels. Bodenkultur 2: 293-297. 1948. 19 B635
- 43280 GAGNARD, J. Note concernant quelques variétés d'oignons. Rev. Hort. de l'Algérie 53: 25-32. Jan. 1949. 87 R32
- 43281 GERN, A. P. Twenty-five years of research in potato culture. (In Russian.) Sad i Ogorod 1948(9): 10-11. Sept. 1948. 87 Sa1
- Petrovskaja Seleksionnaja Stantsia.
- 43282 GRAHAM, T. O. Crops for part time gardeners. Family Herald & Weekly Star 80(11): 6, 17. Mar. 16, 1949. 7 F21
- Vegetable varieties.
- 43283 HABRAN, R. Culture grainière de l'oignon. B. Hort. (n. s.) 4: 42-43. Feb. 1, 1949. 80 B873
- 43284 HABRAN, R. L'echalote, Allium ascalonicum. B. Hort. (n. s.) 4: 74-75. Mar. 1, 1949. 80 B873
- 43285 HAGIWARA, T. Studies on fruiting of squash. (In Japanese.) Hort. Assoc. Japan. J. 17: 182-187. Dec. 1948. 87 H78
- 43286 HALLERFORS, M. Now is the time to plan this year's potato culture. (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige 19(12): 1, 4. Mar. 19, 1949. 11 J762
- 43287 HANSEN, C. M., and FARRALL, A. W. Protection of tomatoes from frost damage by use of radiant energy. Mich. Agr. Expt. Sta. Q. B. 31: 332-342. Feb. 1949. 100 M58S
- Frost control machine.
- 43288 HARDENBURG, E. V. Potato production. Ithaca, N. Y., Comstock, 1949. 270 p. 75 H21P
- 43289 HÄRING. Die stecklingspflanzung für den runkeleamenbau. Württemb. Wchnbl. f. Landw. 116: 191. Apr. 2, 1949. 18 W96
- 43290 HARVEY, P. N. Early planting of maincrop potatoes: Sprowston experience. Gt. Brit. Min. Agr. Agriculture 55: 543-544. Mar. 1949. 10 G79J
- 43291 HASSELBERG, G. Rhabarbertreiberel. Süddeut. Erwerbsgärt. 3: 19. Jan. 15, 1949. 80 Su2
- 43292 HEITMANN, W. Zur kartoffelbestellung. Landw. Wchnbl. f. Westfalen u. Lippe 106: 153-154. Feb. 26, 1949. 18 L2346
- 43293 HELM, C. A. Comment on vegetable seed certification. Seed Trade News 52(12): 1-2. Mar. 23, 1949. 61.8 Se3
- 43294 HENDERSON, E. S. How to grow Brussels sprouts. Flower Grower 36: 326-327. Apr. 1949. 80 M72
- 43295 HEPLER, J. R. Electric heat for early melons. Elect. on the Farm Mag. 22(4): 20-21, 42. Apr. 1949. 335.8 EL27
- 43296 HEPPE, W. F. 'Dakota Chief' new potato variety. Colo. Potato Grower 26(9): 1, 6. Mar. 1949. 75.8 C71
- 43297 HINTZE, S. Investigation of earliness in garden-beet. (In Swedish.) Alnarps Lantbr.-, Mejeri- och Trädgårdsinst. Årsskr. 1948: 347-366. 1949. 104 Sw3Ar
- English summary.
- 43298 HINTZE, S. Investigation of earliness in garden-beet. (In Swedish.) Alnarps Lantbr.- Mejeri- och Trädgårdsinst. Statens Trädgårdsförsök. Meddel. 1949(50): 347-366. 1949. 86 AL64
- English summary.
- 43299 HOFMEYER, J. D. J., NEL, E. A., and LOEST, F. C. A new tomato variety. Farming So. Africa 23: 805-808. Dec. 1948. 24 So842
- 43300 HUELSEN, W. W. Sweet corn holds many problems for seedsmen. West. Feed & Seed 3(10): 10, 17-18. Dec. 1948. 389.78 W52
- 43301 IAKUSHKIN, I. V., and LISOVA, A. V. Crowded planting of potatoes with tuber fractions. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Polev. Opytn. Stants. Iz Rezul't. Rabot 1945/46: 98-110. 1948. 64.9 M85
- 43302 ITO, H., and others. Studies on root tuber formation in sweetpotatoes. 4. (In Japanese.) Hort. Assoc. Japan. J. 17: 146-160. Dec. 1948. 87 H78
- S. Tsuchiya, Y. Morita, R. Hayashi, and K. Suzuki, joint authors.
- 43303 IWAGAKI, H., and IWAMA, S. Sexual differences of green spear production in asparagus. (In Japanese.) Hort. Assoc. Japan. J. 17: 161-165. Ref. Dec. 1948. 87 H78



- 43304 JACOB, C. Les céleris. *Monit. Agr.* 2(64): 6. Apr. 3, 1949. 14 M744
- 43305 JOSEFSSON, A. Breeding of root crops. In Åkerman, Å., ed. *Svalöf 1886-1946*, p. 148-165. Lund, Blom, 1948. 61.9 AL5
- 43306 KADIURA, M., ABE, S., and TSUCHIYA, S. The new melon varieties "Okitsu" and "Pearl." (In Japanese.) *Hort. Assoc. Japan. J.* 17: 22-33. Mar. 1948 87 H78
- 43307 KIDNER, A. W. Faint heart never won fair asparagus. *Grower [London]* 31: 494-495. Mar. 12, 1949. 286.83 M34
- 43308 KLANTE, C. Karotten im provisorischen kasten. *Süddeut. Erwerbsgärt.* 3: 54-55. Feb. 12, 1949. 80 Su2
- 43309 KLANTE, C. Kressetreiberei zur restlosen ausnutzung der anzuchthäuser. *Süddeut. Erwerbsgärt.* 3: 34. Jan. 29, 1949. 80 Su2
- 43310 KRATZ, H. Anzucht der gemüsepflanzen für treibkultur. *Süddeut. Erwerbsgärt.* 2: 9-10. Feb. 1948. 80 Su2
- 43311 KUMAZAWA, S., and KANAZAWA, S. Introduction of the north Chinese cucumber and breeding of "Suyo." (In Japanese.) *Hort. Assoc. Japan. J.* 17: 39-42. Mar. 1948. 87 H78
- 43312 KUMAZAWA, S., and KANAZAWA, S. Introduction of the north Chinese radish and breeding of "Kochin." (In Japanese.) *Hort. Assoc. Japan. J.* 17: 34-38. Mar. 1948. 87 H78
- 43313 LAFUENTE, F. El cultivo asociado maíz-garbanzo. *Campo [Sevilla]* 8(83): 5-7. Feb. 1949. 15 C15
- 43314 LANDREVILLE, P. De meilleurs plants pour de meilleurs rendements. *B. des Agr.* 45(4): 10, 75. Apr. 1949. 7 B872
- Vegetables.
- 43315 LARSEN, H. P. Killing of potato tops before harvesting. (In Danish.) *Dansk Landbr.* 68: 117-118. Mar. 3, 1949. 280.28 V91
- 43316 LASSER, E. Vergleichsanbau amerikanischer und eingebürgerter deutscher kartoffelsorten. *Kärntner Bauer* 99: 72-73. Mar. 1, 1949. 19 K14
- 43317 LAUER, K. W. The seed potato situation. *Guide Post* 26(2): 7-8. Feb. 1949. 75.8 G94
- 43318 LINNENBRÜGGER, H. Ein praktischer hinweis zur anzucht der gemüseplanzen. *Süddeut. Erwerbsgärt.* 2: 20-21. Mar. 1948. 80 Su2
- 43319 LINNENBRÜGGER, H. Die winterausnutzung der häuser und kästen im Wiesbadener gemüsebaubetrieb. *Süddeut. Erwerbsgärt.* 3: 35. Jan. 29, 1949. 80 Su2
- 43320 LISGES, H. 30 jahre rheinische lehranstalt für gemüsebau Straelen. *Süddeut. Erwerbsgärt.* 3: 18-19. Jan. 15, 1949. 80 Su2
- 43321 LISOVA, A. V. Experiments on planting potatoes without use of whole tubers. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Plev. Opytn. Stanfs. Iz Rezul't. Rabot 1945/46*: 111-126. 1948. 64.9 M85
- 43322 LÜDECKE, H. Gedanken zur verwendung von einkeimigen rübensamen. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 225. Mar. 19, 1949. 18 L2346
- 43323 MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Varieties of vegetables recommended for Maryland in 1949, by E. K. Bender. *College Park?* 1949. 1 p. 275.29 M36V
- 43324 MATHO, K. Zwei wertvolle frühkohlsorten. *Süddeut. Erwerbsgärt.* 3: 55. Feb. 12, 1949. 80 Su2
- 43325 MONTUORI, E. La culture du pois chiche dans le Constantinois. *Voix des Colons* 31(1497): 2. Mar. 28, 1949. 24 V85
- 43326 MOROZOV, I. S. Ovoshchi na peskakh [Vegetables on sandy soil]. *Moskva, Moskovskiy Rabochiy*, 1948. 89 p. 91 M82
- 43327 MY, P. La chicorée. *Casablanca. Chambre d'Agr. B.* 19(211): 3, 5, 7, 9, 11. Nov. 1948. 24 C26
- 43328 NAVARRETE R., M. A. Un programa para el mejoramiento de la papa en Colombia. *Colombia. U. Nac. Facul. Nac. de Agron. Rev.* 8: 375-394. Dec. 1948. 9.4 C717
- 43329 NICHOLAS, J. L. Use of broad beans as shelter in home garden. *New Zeal. J. Agr.* 78: 43. Jan. 15, 1949. 23 N48J
- Shelter for tomatoes.
- 43330 NICKEL, B. Gedanken zum pflanzkartoffelanbau in Weser-Ems. *Landwirtschaftsblatt Weser-Ems* 96: 179-180. Mar. 17, 1949. 18 L2345
- 43331 NILSSON, F. Variety trials with vegetables in Norrland. III-IV. (In Swedish.) *Alnarps Lantbr.-, Mejeri- och Trädgårdst. Årsskr.* 1948: 1-56, 171-224. Ref. 1949. 104 Sw3Ar
- English summary.
- III, Leek, spinach and lettuce in 1938-1947; H. Lindwall, joint author; IV, Sugar peas in 1938-1947.
- 43332 NISSLEY, C. H. New Jersey vegetables. *N. J. State Hort. Soc. Hort. News* 30: 2153, 2156. Mar. 1949. 81 N46
- 43333 NORDGAARD, K. Cabbage, transplanting or seeding in the garden. (In Danish.) *Gart.-Tid.* 65: 127. Mar. 23, 1949. 80 G192
- 43334 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Results of potato variety trials. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 333-335. Mar. 1949. 256.13 Ag82M
- 43335 NYHLÉN, Å. Experiments with sugar peas at Nyckelby and some other localities 1938-1947. (In Swedish.) *Alnarps Lantbr.-, Mejeri- och Trädgårdst. Statens Trädgårdst. Meddel.* 1949: 303-334. 1949. 86 AL64
- English summary.
- Also in *Alnarps Lantbr.-, Mejeri- och Trädgårdst. Årsskr.* 1948: 303-334. Ref. 1949. 104 Sw3Ar
- 43336 ORMAN, A. C. New varieties of vegetables. *Queensland Prod.* 30(30): 12. Jan. 19, 1949. 23 Q35
- 43337 PAOLIERI, L. El maíz dulce en Brasil. *Hacienda* 44(4): 42-43, 59. Apr. 1949. 6 H11
- 43338 PETERS, H. F. El cultivo e industrialización de la batata en el partido de Dolores. *Campo y Suelo Argentino* 32(387): 22-24. Jan. 1949. 9 C15
- 43339 QUARRELL, C. P. Early summer roots; bunching beet and turnips respond to coverage. *Nurseryman & Seedsman* 108: 1096-1097. Mar. 31, 1949. 80 N933
- 43340 QUARRELL, C. P. Food production under cloches. *Pop. Gard.* 51: 26, 30. Mar. 19, 1949. 80 G1622
- 43341 QUARRELL, C. P. Melons in frames. *Gard. Illus.* 66: 78, 80. Apr. 1949. 80 G169
- 43342 RICHARDS, A. A. First potting of tomatoes. *Amateur Gard.* 65(3380): 22. Feb. 22, 1949. 80 Am13
- 43343 RICHARDS, A. A. Planting tomatoes. *Amateur Gard.* 65(3384): 20. Mar. 22, 1949. 80 Am13
- 43344 RICHARDS, A. A. Sowing cucumbers. *Amateur Gard.* 65(3381): 21. Mar. 1, 1949. 80 Am13
- 43345 ROBINSON, R. A. Early market lettuce from the open. *Smallholder* 80(2032): 9. Mar. 11, 1949. 10 Sml
- 43346 ROHDE, E. S. The globe artichoke. *My Gard.* 38: 295-298. Mar. 1949. 80 M995
- 43347 ROSS, A. A. Tomato variety investigations in the Stanthorpe district. *Queensland Prod.* 30(32): 3, 18-19. (To be cont.) Feb. 2, 1949. 23 Q35
- 43348 SABOURIN, L. Si vous aimez les fèves. *Rustica* 22: 265. Mar. 27, 1949. 14 R92
- 43349 SANDER, O. Niedere anzuchttemperatur als ursache der schosserbildung bei kohlrabi. *Süddeut. Erwerbsgärt.* 2: 5-6. Jan. 1948. 80 Su2
- 43350 SAYEGH, D. Les cultures légumières au Liban. *Agirculture [Paris]* 13: 55-56. Feb. 1949. 14 Ag823
- 43351 SHEWELL-COOPER, W. E. Carrots as a market crop. *Field* 193: 275. Mar. 5, 1949. 10 F45
- 43352 SHEWELL-COOPER, W. E. Globe artichokes. *New Health* 24(3): 4. Mar. 1949. 449.8 N45
- 43353 SHEWELL-COOPER, W. E. How to grow plenty of really first-class rhubarb. *Pop. Gard.* 50: 487. Feb. 19, 1949. 80 G1622
- 43354 SHEWELL-COOPER, W. E. New ideas with potatoes. *Amateur Gard.* 65(3384): 20-21. Mar. 22, 1949. 80 Am13
- 43355 SHEWELL-COOPER, W. E. Start sowing now for a year's supply of carrots. *Pop. Gard.* 51: 23. Mar. 19, 1949. 80 G1622
- 43356 SHIGONIN, K. A. Selective pollination of tomatoes and peas. (In Russian.) *Selekt. i Semen.* 15(10): 26-31. Oct. 1948. 61.9 Se5



- 43357 SHINOHARA, S. Fertility in hybrids between tetraploid Chinese cabbage and a few Brassica species. (In Japanese.) Hort. Assoc. Japan. J. 17: 73-76. Mar. 1948. 87 H78  
English summary.
- 43358 SIMONNEAU, P. Choux et choux-fleurs (dans le département d'Oran). Rev. Hort. de l'Algérie 52(8): 30-38. Oct. 1948. 87 R32
- 43359 SIMONS, A. J. Choosing your vegetable seeds; why you should buy from a reputable firm. Gard. Work Amateurs 69: 485, 504. Feb. 19, 1949. 80 G1627
- 43360 SIMONS, A. J. How to grow prizewinning vegetables. Gard. Work Amateurs 69: 522-524. Feb. 26, 1949. 80 G1627
- 43361 SMITH, C. W. Vegetable growing in South Africa. Cape Town, Cent. News Agency, Ltd., 1948. 170 p. 91.15 Sm5
- 43362 SMITS, J. VAN G., JR. Mushroom culture. (In Dutch.) Groenten en Fruit 4: 460-461. (To be cont.) Jan. 27, 1949. 80 G89
- 43363 SOLODOVNIKOV, F. S. Selection of tomatoes. (In Russian.) Sad i Ogorod 1948(9): 22-23. Sept. 1948. 87 Sa1  
In Kazakstan.
- 43364 STEIN, H. Samengewinnung im Gemüsebau. Ed. 2. Berlin, Siebeneicher Verlag, 1948. 68 p. 91 St3
- 43365 STEVENSON, F. J., and LIVERMORE, J. R. The Saranac potato: a new variety promising in Australia. Amer. Potato J. 26: 45-46. Feb. 1949. 75.8 P842
- 43366 SUGIMOTO, Y. Studies on the breeding of spinach. 2. Sex expression and genetical explanation. (In Japanese.) Hort. Assoc. Japan. J. 17: 77-83. Mar. 1948 87 H78
- 43367 TEDIN, O. Breeding of potatoes. In Åkerman, Å., ed. Svalöf 1886-1946, p. 135-147. Ref. Lund, Blom, 1948. 61.9 AL5
- 43368 TOMALIN, T. E. Melons & cucumbers are good companion crops for the greenhouse. Pop. Gard. 51: 26. Mar. 19, 1949. 80 G1622
- 43369 TOMETORP, G. Variety trials with sugar peas at Alnarp 1943-1947. (In Swedish.) Alnarps Lantbr.-Mejeri- och Trädgårdst. Statens Trädgårdsförsök. Meddel. 1948: 253-302. Ref. 1948. 86 AL64  
English summary.  
Also in Alnarps Lantbr.-, Mejeri- och Trädgårdst. Arsskr. 1948: 253-302. Ref. 1949. 104 Sw3Ar
- 43370 TORREND, C. Culture of truffles. (In Portuguese.) Chacaras e Quintais 79: 347-348. Mar. 15, 1949. 9.2 C34
- 43371 UFER, M. Die Möglichkeit der Züchtung Bruchus-resistenter Erbsen. Bodenkultur 2: 28-35. 1948. 19 B635
- 43372 WALKDEN, G. B. Shallots are profitable. Amateur Gard. 65(3377): 20. Feb. 1, 1949. 80 Am13
- 43373 WARD, W. B., and ELLIS, N. K. Asparagus production. Purdue U. Agr. Ext. B. 339, 11 p. 1948. 275.29 In2E
- 43374 WELCH, J. H. Tomatoes, the spring queen of Valley crops. Tex. Farming & Citric. 25(10): 8. Apr. 1949. 80 T31
- 43375 WENTZ, W. Der Feldgemüsebau 1949. Württemb. Wchnbl. f. Landw. 116: 112. (Concl.) Feb. 26, 1949. 18 W96
- 43376 WENTZ, W. Selbsthilfe in der Gemüsesamenbeschaffung. Süddeut. Erwerbsgärt. 2: 12-14. Feb. 1948. 80 Su2
- 43377 WHITEHEAD, S. B. If you want bumper crops of potatoes. Pop. Gard. 51: 13. Mar. 12, 1949. 80 G1622
- 43378 WOLDIJK, (P. K.) Short descriptions of the most interesting characteristics of the famous Dutch seed blue peas and marrowfats. Groningen, Woldijk, 1948? 11 p. 91.56 W83
- 43379 WYNN, J. Growing tomatoes for exhibition. Pop. Gard. 51: 17, 20. Mar. 12, 1949. 80 G1622
- 43380 YARNELL, S. H. The Southern Tomato Exchange Program. Amer. Soc. Hort. Sci. Proc. 52: 375-382. Nov. 1948. 81 So12  
Breeding.
- WEEDS AND POISONOUS PLANTS
- 43381 BALOGH, F. L. Control of crabgrass. Prof. Gard. 1: 79-80. Mar. 1949. 80 P945
- 43382 BEGGS, J. P. Russian knapweed [*Centaurea repens*] a potentially-serious weed of cultivated land. New Zeal. J. Agr. 78: 63-64. Jan. 15, 1949. 23 N48J
- 43383 BELLUE, M. K. Halogeton invades California. Calif. Dept. Agr. B. 38: 32-36. Jan./Mar. 1949. 2 C12M  
Halogeton glomeratus.
- 43384 BIBBEY, R. O. Research and weed control. Agr. Inst. Rev. 4: 146-147, 149. Mar. 1949. 7 Ag8
- 43385 BIRT, F. C. A classification of herbicides. Agr. Inst. Rev. 4: 128-129. Mar. 1949. 7 Ag8
- 43386 BOSWORTH, H. N. The chemical control of plant growth. Pacific Coast Nurseryman 8(3): 13-14, 34-35. Mar. 1949. 80 P116
- 43387 BROWN, J. F. D.N.O.C. sprays useful weedicide in onion crops. New Zeal. J. Agr. 78: 31-32. Jan. 15, 1949. 23 N48J
- 43388 BUCHHOLTZ, K. P. Control Canada thistles with 2,4-D. Hoard's Dairyman 94: 310-311. Apr. 10, 1949. 44.8 H65
- 43389 BUTLER, C. C. Tests compare aerial, ground methods of spraying willows. Mont. Farmer-Stockman 36(15): 22-23. Apr. 1, 1949. 6 M764  
Control by spraying with 2, 4-D.
- 43390 CAMPAGNA, E., and ANDERSON, E. G. Weeds and public health. Agr. Inst. Rev. 4: 109-113. Mar. 1949. 7 Ag8  
In Canada.
- 43391 CANADA. DEPT. OF AGRICULTURE. Canadian weed survey, sixth report, 1947. Ottawa, 1949. 25 p. Ref. 79.9 C162
- 43392 CARTIER, R. D. Un emploi judicieux des herbicides peut être précieux dans certaines cultures maraichères. Terre de Chez Nous 21(7A): 11, 19. Apr. 13, 1949. 7 T27
- 43393 CHIAPPELLI, R. Weeds infesting rice beds. (In Italian.) Gior. di Agr. 59: 59. Feb. 20, 1949. 16 It1G
- 43394 CLARKE, S. E. Weeds poisonous to livestock. Agr. Inst. Rev. 4: 103-108. Mar. 1949. 7 Ag8  
In Canada.
- 43395 CLEAVER, G. W. Weed control in the nursery. Prof. Gard. 1: 53. Feb. 1949. 80 P945
- 43396 CLEMSON EXTENSION WEED CONTROL COMMITTEE. Weed control with 2,4-D in South Carolina. Clemson Agr. Col. S. C. Ext. C. 330, 8 p.-folder. Feb. 1949. 275.29 So8E
- 43397 CLIFFORD, E. D. Weed control in guayule seedbeds with stove oil. J. Forestry 47: 271-276. Apr. 1949. 99.8 F768
- 43398 CRAFTS, A. S., and EMANUELLI, A. Weed control in sugar cane. Rev. Azucarera 2: 31-37. 1948. 65.8 R325
- 43399 CRAIG, H. A. Persistent perennial weeds. Agr. Inst. Rev. 4: 99-101. Mar. 1949. 7 Ag8  
In Canada.
- 43400 CRAM, B. Les nouveaux désherbants; colorants organiques et hormones. Unité Paysanne 4(172): 4. (Cont.) Feb. 19, 1949. 14 Un3
- 43401 CROSS, C. E. Weed control experiments of 1949 can be of value in practices of 1949. Cranberries 13(11): 8, 24-25. Mar. 1949. 80 C852
- 43402 CUMMINGS, M. B. The lowly dandelion—rich in food values. Organic Gard. 14(4): 17. Apr. 1949. 56.8 Or3
- 43403 DANIELSON, C. B., and CROWE, G. B. The flame cultivator has not yet solved cotton weed problem. Agr. Situation 33(3): 12-13. Mar. 1949. 1 Ec7Ag
- 43404 DEMPSEY, P. W. Watch out for that poison ivy. New England Homestead 122(6): 7-8. Mar. 26, 1949. 6 N442
- 43405 DIEPEN, D. VAN. Horse tail [*Equisetum palustre*] soils. (In Dutch.) In Boor en spade, p. 213-216. Utrecht, Oosthoek, 1948. 56.9 B64  
English summary.  
Drainage to control horsetail.
- 43406 DORE, W. G., and CAMPBELL, J. B. Weeds of grassland. Agr. Inst. Rev. 4: 95-97. Mar. 1949. 7 Ag8  
In Canada.
- 43407 DUNHAM, R. S. Conference reports on weed control. Minn. Farm and Home Sci. [Minn. Sta.] 6(2): 1, 14. Feb. 1949. 100 M668



- 43408 ERICKSON, L. C., and KLAGES, K. H. Use and effectiveness of herbicides in weed control. *Impl. Rec.* 46(2): 47. Feb. 1949. 58.8 Im73
- 43409 FREE, M. Do weed killers really kill? *Home Gard.* 12(6): 24-26. Dec. 1948. 80 H756
- 43410 FRIESEN, H. A., and MACKAY, J. W. Weeds of grain fields. *Agr. Inst. Rev.* 4: 91-94. Mar. 1949. 7 Ag8  
Kinds in Canada.
- 43411 GALIARDO LINARES, J. A. Lo que sabemos del herbicida 2, 4-D. *Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad.* 6(62): 3-4. Nov. 1948. 15 B14
- 43412 GERLACH, C. F. Weed control for the PCO. *Pests* 17(4): 9-11. Apr. 1949. 449.8 Ex8
- 43413 GILLING, T. This is "weedkiller" farm. *Farmers Weekly [London]* 30(11): 43. Mar. 18, 1949. 10 F2226  
A weed control service for farmers in England by Turkdean, Ltd.
- 43414 GRIFI, L. N. The embrace that kills. (In Italian.) *Agr. Tosc.* 4: 65-66. Feb. 1949. 16 Ag8263  
Dodder.
- 43415 GRIGSBY, B. H. Chemicals not substitute for all cultivation. *Farm Equip. Retailing* 7(4): 44, 50. Apr. 1949. 58.8 F2292  
Use of 2,4-D for weed control; other chemicals.
- 43416 GROH, H., and FRANKTON, C. Weed surveys in Canada. *Agr. Inst. Rev.* 4: 150-152. Mar. 1949. 7 Ag8
- 43417 GYSEL, A. Fruchtfolge und ankrautbekämpfung. *Grüne* 77: 234-236. Mar. 4, 1949. 17 Sch9
- 43418 HARDY, E. A. Tillage and weed control. *Agr. Inst. Rev.* 4: 139-141. Mar. 1949. 7 Ag8
- 43419 HEINEN, R. Using 2,4-D safely! *Agr. Leaders' Digest* 30(3): 23-24. Mar. 1949. 275.28 Am3
- 43420 HILLI, A. On the removal of willows and alders from cultivated fields. (In Swedish.) *Prakt. Försöksverks.* 5: 40-42. May/June 1948. 20 P88  
Use of hormone preparations.
- 43421 HORNER, W. H. Provincial [Canada] weed legislation. *Agr. Inst. Rev.* 4: 119-121, 123-124. Mar. 1949. 7 Ag8
- 43422 KEPHART, L. W. Western weed conference notes success of new herbicides. *Agr. Chem.* 4(3): 44-45. Mar. 1949. 381 Ag8
- 43423 KLEIN, L. G. Present status of chemical weed control in *Gladiolus*. *Canad. Gladiolus Soc. Ann.* 1949: 53-54. 82 C164Q
- 43424 KLINGMAN, G. C. How good is 2,4-D? *Carolina Co-op.* 27(2): 14-15. Apr. 1949. 72.8 N81
- 43425 KNOWLES, G. Chemical weed control in eastern Canada. *Agr. Inst. Rev.* 4: 137-138. Mar. 1949. 7 Ag8
- 43426 KOLE, A. P. Chemical weed control in summer barley. (In Dutch.) *Natl. Com. v. Brouwergerst. Jaarb.* 1949: 48-52. 390.9 N21
- 43427 KOTT, S. A. Agrobiological characteristics of European glorybind and Canada thistle and their control. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(4): 23-29. Ref. 1948. 20 Ak1
- 43428 KRASTINA, K. Synthetic growth substances and their importance in weed control. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Sborn. Studen. Nauch.-Issled. Rabot* 1948: 84-87. 106 M852Sb
- 43429 LEAL, J. C. Comments on the distribution and behavior of weeds. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 12: 202-215. Oct./Dec. 1948. 9.2 R325
- 43430 LECOMPTE, S. B., JR. Weeding asparagus with chemicals. *N. J. State Hort. Soc. Hort. News* 30: 2155-2156. Mar. 1949. 81 N46
- 43431 LEE, O. C. Three types of 2,4-D will destroy most farm weeds. *Farm Equip. Retailing* 7(4): 22-23, 118-119. Apr. 1949. 58.8 F2292
- 43432 LEE, O. C. Weeding with 2,4-D. *Purdue U. Agr. Ext. Leaflet* 297, 12 p. 1949. 275.29 In2L
- 43433 LONGCHAMP, R., and GAUTHERET, R. Recherches sur le désherbage des champs de céréales au moyen de l'acide 2,4-dichlorophénoxyacétique. *Paris. Acad. des Sci. Compt. Rend.* 228: 861-862. Mar. 7, 1949. 505 P21
- 43434 LOUSTALOT, A. J., and FERRER, R. Summary of a discussion on "Weed control experiments in sugar cane." *Rev. Azucarera* 2: 37. 1948. 65.8 R325
- 43435 MACLEAN, W. M. The story of 2,4-D. *Agr. Inst. Rev.* 4: 130-131. Mar. 1949. 7 Ag8
- 43436 MCROSTIE, G. P. The losses from weeds. *Agr. Inst. Rev.* 4: 87-90. Mar. 1949. 7 Ag8  
In Canada.
- 43437 MAGILL, W. W. 2, 4-geese—believe it or not! *Amer. Fruit Grower* 69(4): 24. Apr. 1949. 80 G85  
Weed control.
- 43438 MELANDER, L. W. Killing woody plants with chemicals. *Pests* 17(4): 12, 14, 16. Apr. 1949. 449.8 Ex8  
2,4-D and trichlorophenoxyacetic acid.
- 43439 MIKHAILOVSKAIA, I. Change in weed components during the vegetation period. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Sborn. Studen. Nauch.-Issled. Rabot* 1948: 17-21. 106 M852Sb
- 43440 MONTGOMERY, R. G. Weeds and seeds injurious to wool and sheepskins. *New Zeal. J. Agr.* 78: 52-55, 57-58. Jan. 15, 1949. 23 N48J
- 43441 MUSGRAVE, M. M. Control of Californian thistle [*Cirsium arvense*] with cocksfoot. *New Zeal. J. Agr.* 78: 23. Jan. 15, 1949. 23 N48J
- 43442 MUSSER, H. B. Control of weeds in special purpose turf with 2,4-D. *Greenkeepers' Rptr.* 17(2): 30-35. Mar./Apr. 1949. 60.18 G83
- 43443 ORCHARD, H. E. Mint weed [*Salvia reflexa*]—a warning! *So. Austral. Dept. Agr. J.* 52: 219-220. Dec. 1948. 23 So84
- 43444 ORCHARD, H. E. Weeds of South Australia; Dyer's weed (*Reseda luteola*, L.), and related species. *So. Austral. Dept. Agr. J.* 52: 277-278. Jan. 1949. 23 So84
- 43445 PERRIN, E. E. Words and weed killers. *Amer. Farm Youth* 15: 28-29. Mar. 1949. 6 Am393  
Five basic types of chemical weed killers.
- 43446 RICKENBACH, R. G. Millard County battles weeds. *Utah Farmer* 68(14): 10, 14. Mar. 12, 1949. 6 D45
- 43447 RIPLEY, P. O. Regional weed problems. *Agr. Inst. Rev.* 4: 79-86. Mar. 1949. 7 Ag8  
Varieties in Canada.
- 43448 ROSELLA, E. L'emploi des phyto-hormones herbicides dans les céréales. *Inform. Maroc.* 413: 1, 3; 414: 1, 4. Dec. 11-18, 1948. 281.8 In3
- 43449 SAINT-QUENTIN, M. Détruisons la cuscute avant qu'il soit trop tard. *Rustica* 22(11): 214, 221. Mar. 13, 1949. 14 R92
- 43450 SAXBY, S. H. Measures for eradication of tall fescue. *New Zeal. J. Agr.* 78: 9-10. Jan. 15, 1949. 23 N48J
- 43451 SEELY, C. I., KLAGES, K. H., and SCHAFER, E. G. Controlling perennial weeds with sodium chlorate, carbon bisulfide, and borax. *Wash. Agr. Expt. Sta. B.* 505, 23 p. Nov. 1948. 100 W27E
- 43452 STAHLER, L. M. Development in use of chemicals in weed control. *Seed Trade News* 52(12): 5. Mar. 23, 1949. 61.8 Se3
- 43453 STERLING, G. R. Community organization for weed control. *Agr. Inst. Rev.* 4: 115-117. Mar. 1949. 7 Ag8
- 43454 STOECKELER, J. H. Killing weeds with mineral spirits. *Amer. Nurseryman* 89(7): 11, 55-56. Apr. 1, 1949. 80 Am371
- 43455 SYLWESTER, E. P., BAKKE, A. L., and STANFORTH, D. W. Another year of 2,4-D. *Iowa Farm Sci.* 3(9): 11-12. Mar. 1949. 275.28 Io94
- 43456 TEMPLEMAN, W. G. Laboratory methods and trials leading up to the field use of selective weedkillers. (Abs.) *Chem. & Indus.* 1949: 173. Mar. 12, 1949. 382 M31C
- 43457 THORUP, S. Have hormone preparations made other herbicides superfluous? (In Danish.) *Dansk Landbr.* 68: 113-114. Mar. 3, 1949. 280.28 V91
- 43458 TIMMONS, F. L. Duration of viability of bindweed seed under field conditions and experimental results in the control of bindweed seedlings. *Agron. J.* 41: 130-133. Ref. Mar. 1949. 4 Am34P



- 43459 TINCKER, M. A. H. An introduction to the evaluation of selective weedkillers. (Abs.) Chem. & Indus. 1949: 173. Mar. 12, 1949. 382 M31C
- 43460 TIRELLI, M., and LUNGO, A. DEL. Hormones in the control of weeds. (In Italian.) Terra e Sole 78: 45-48. Feb. 1949. 16 T273
- 43461 TROUBETZKOI, P. Désherbage sélectif des céréales. Agri-Cher 3(13): 3. Feb. 15, 1949. 14 Ag892
- 43462 TURNAS, P. A. Control of the dissemination of chickweed (*Stellaria media* Vill) seeds in the peat soils of the Extreme North. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(5): 35-39. 1948. 20 Akl
- 43463 UNDERWOOD, J. The locoweed [*Oxytropis lamberti*] of the west. Nature Mag. 42: 221. May 1949. 409.6 N214
- 43464 WEED control in Iowa. Iowa Law Rev. 34: 348-353. Jan. 1949. L9 Io9
- 43465 WOLF, D. E. Weed control in certain horticultural crops. N. J. State Hort. Soc. Hort. News 30: 2145, 2147, 2154-2155. Mar. 1949. 81 N46
- 43466 WOOD, H. E. Chemical weed control in the Prairie Provinces. Agr. Inst. Rev. 4: 133-135. Mar. 1949. 7 Ag8
- 43467 WOOD, H. E. Controlling woody growth and weeds on roadways, ditches, power and telephone rights-of-way with chemicals. Manitoba. Dept. Agr. and Immigr. P. 220, 4 p. Feb. 1949. 275.29 M313
- 43468 WOOD, H. E., OLSON, P. J., and SHANKS, G. L. Questions and answers on 2,4-D. Manitoba. Dept. Agr. and Immigr. P. 219, 15 p. Jan. 1949. 275.29 M313
- 43469 WOOD, H. E. A weed control programme for Canada. Agr. Inst. Rev. 4: 153-154. Mar. 1949. 7 Ag8
- 43470 WOODFORD, E. K. The evaluation of selective phytocidal action in field trials. (Abs.) Chem. & Indus. 1949: 173. Mar. 12, 1949. 382 M31C
- 43471 WRIGHT, W. H., and HEISE, A. C. Seed grain and weed control. Agr. Inst. Rev. 4: 125, 127. Mar. 1949. 7 Ag8
- MISCELLANEOUS ECONOMIC PLANTS**  
(Drug, Dye, Rubber, Etc.)
- 43472 BAISTROCCHI, A. Italian lavender. (In Italian.) Pianta Officinale 3(11/12): 1-4. Nov./Dec. 1948. 71.8 P57
- 43473 BASTOS, A. DE M. The work in the rubber plantation. (In Portuguese.) Brincar e Aprender 7(30): 4. July/Dec. 1948. 275.249 B77
- 43474 BRUSCHI, G. Pruning olives in Firenze Province. (In Italian.) Agr. Tosc. 4: 43-45. Feb. 1949. 16 Ag8263
- 43475 BURGESS, A. H. English hop growing. Brit. Agr. J. 1: 107-113. Autumn 1948. 10 B776
- 43476 CAMARGO, R. DE. Shading coffee. (In Portuguese.) Soc. Rural Bras. Rev. 28: 18. Jan. 1948. 9.2 B733
- 43477 CARDON, P. V. Possibilities for new chemurgic crops. Washington, U. S. Agr. Res. Admin., 1949. 13 p. 1.965 A2C17
- 43478 CASTRO, J. DE., and others. "Wild foods" of the inland regions of the Northeast. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 75-93. Ref. 1948. 389.9 R47
- 43479 CATTORINI, P. E. The Viburnums. I. (In Italian.) Fitoterapia 20: 13-14. Jan./Feb. 1949. 450 F55
- 43480 CERVI, B. Argentine olive culture: where an olive plant eight years old gives two kilos of fruit. (In Italian.) Gior. di Agr. 59: 68. Feb. 27, 1949. 16 It1G
- 43481 CHANDRARATNA, M. F., and NANAYAKKARA, K. D. S. Studies in cassava. II. The production of hybrids. Trop. Agr. [Ceylon] 104: 59-74. Apr./June 1948. 26 T751
- 43482 CHAVARRÍA FLORES, R. A. Algunos recursos de interés industrial para nuestro país. Suelo Tico 1: 262-264. (To be cont.) Oct. 1948. 8 Su2
- 43483 CRANE, J. C. Roselle—a potentially important plant fiber. Econ. Bot. 3: 89-103. Ref. Jan./Mar. 1949. 450 Ec7
- 43484 CRANMER, D. Herb culture. Amateur Gard. 65(3381): 20, 26. Mar. 1, 1949. 80 Am13
- 43485 DEBATTY, O. Les plantes condimentaires et aromatiques. B. Hort. (n. s.) 4: 21-22. Jan. 1, 1949. 80 B873
- 43486 DIAZ UNGRIA, J. Cultivo de bulbos comestibles. II. Ager 4: 221-224. Nov./Dec. 1948. 33.23 Ag3
- 43487 DOUMONT, L., and VALEMBERG, M. Les plantes médicinales. Courrier Hort. 11: 119. Feb. 1949. 80 C834
- 43488 ERNEHOLM, I. Cacao production of South America. Gothenburg, Sweden, 1948. 279 p. (Meddelande från Göteborgs Högskolas Geografiska Institution, 34) 68.3 Er6
- 43489 FERREIRA, J. C. Cultura e preparo da erva-mate [Culture and preparation of mate]. Rio de Janeiro, Serviço de Informação Agrícola, Ministério da Agricultura, 1948. 53 p. (S.I.A. 680) 68.4 F41
- 43490 FOURNIER, P. Le livre des plantes médicinales et vénéneuses de France. Paris, Lechevalier, 1948. v. 3, 636 p. (Encyclopédie Biologique, v. 32) 459.5 F82L
- 43491 FUMELLI, A. Branches and leaves. (In Italian.) Agr. Tosc. 4: 46-48. Feb. 1949. 16 Ag8263
- 43492 GABBERT, H. M. Proyecto de mejoramiento del cultivo del café en Costa Rica, por el método de selección. Suelo Tico 1: 363. Dec. 1948. 8 Su2
- 43493 GATTY-KOSTYÁL, M., and KRÓWCZYŃSKI, L. Valeur thérapeutique des plus importants aconits indigènes. (Abs.) Akad. Umiejętności. Wyd. Mat.-Przyrodniczy. Compt. Rend. 1948(1): 15-16. Jan. 1948. 512 K85C
- 43494 GOLUBINSKII, I. N. Types of propagation cuttings for hops. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(7): 14-19. 1948. 20 Akl
- 43495 HARRIS, C. A. The way with herbs. Home Gard. 13(4): 58-59. Apr. 1949. 80 H756
- 43496 HARRIS, J. E. Stew me some ginseng, I need strength. Nat. Hist. 57: 424-428. Nov. 1948. 500 500 N483J
- 43497 HÉMON, C. Quelques plantes utiles méconnues ou négligées. Rev. Hort. [Paris] 120: 371-374. Dec. 1948. 80 R32
- 43498 HEETEREN, H. V. A. VAN. Experiments on the cultivation of Pyrethrum (*Chrysanthemum cinerariaefolium* vis.). (In Dutch.) East Indies (Dutch) Alg. Proefsta. v. Landb. Meded. 73, 18 p. 1948. 109.5 Ea73
- 43499 HOWES, F. N. Honey and its sources. Food [London] 18: 106-110. Apr. 1949. 389.8 F738
- 43500 JARAMILLO-ARANGO, J. A critical review of the basic facts in the history of Cinchona. Linn. Soc. London, J. Bot. 53, 1. e. 55: 272-309. Mar. 10, 1949. 451 L64J
- 43501 JEFFORDS, D. B. Carolina tea-time. Nature Mag. 42: 224-225. May. 1949. 409.6 N214
- 43502 JIMENEZ J., J. Importancia de la renovación de los cafetales en Costa Rica. Suelo Tico 1: 302-303. Nov. 1948. 8 Su2
- 43503 JIMENEZ J., J. Selección de la semilla. Suelo Tico 1: 304-305. Nov. 1948. 8 Su2
- 43504 JUARES, T. El oro negro. Siembra 1949: 14-17. Jan. 1949. 15 Si1
- 43505 KARASEV, P. M. Planting qualities of kok-saghyz seeds. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Povey. Opytn. Stanf. Iz Rezul't. Rabot 1945/46: 208-215. 1948. 64.9 M85
- 43506 KRISHNA, S., and BADHWAR, R. L. Aromatic plants of India. IX. J. Sci. & Indus. Res. Sup. 8: 145-160. Feb. 1949. 475 J82
- 43507 LAGOS U., J. A. Cultivo del café en Costa Rica. Agr. Costarricense 7: 24. Jan. 1949. 8 Ag895
- 43508 LARROQUE, P. La sélection des abrasins. 1. Oléagineux 4: 160-164. Mar. 1949. 77.8 OL2



43509 LE GOFF, R. Une nouvelle plante industrielle: le plissenlit-caoutchouc [*Taraxacum kok-saghyz*]. Foyer Rural [Montréal] 8(6): 7. Mar. 1949. 7 F83

43510 MANTELL, C. L. The water-soluble gums—their botany, sources and utilization. Econ. Bot. 3: 3-31. Jan./Mar. 1949. 450 Ec7

43511 MARSDEN, K. E. The teazle. Nature Lover 6: 85-87. Feb. 1949. 410 N218

43512 MATHIEU, R. Herbs. Farm Q. 4: 43-47, 98, 98, 100-102, 104-107. Spring 1949. 6 F22995

43513 MIEGE, E. La culture de la menthe au Maroc. Inform. Maroc. 416: 1-2. Jan. 1, 1949. 281.8 In3

43514 MONTANARI, A. Agricultural surgery: pruning; assist plant physiology. (In Italian.) Agricoltore [Perugia] 6(2): 2. Jan. 30, 1949. 281.8 Ag822  
Olives and grapes.

43515 MOSCOW. VSESOUZNYĖ NAUCHNO-ISSLEDOVATEL'SKIĖ INSTITUT KAUCHUKONOSOV. Kul'tura kauchukonosov v SSSR [Culture of rubber-producing plants in U. S. S. R.]. Moskva, Sel'khozgiz, 1948. 358 p. 78 M85K

43516 NOSTI, J. Cacao y café guineanos. Siembra 1949: 7-9. Jan. 1949. 15 Si1

43517 ORTIZ GARMENDIA, J. El pacul [*Krameria cistoidea*], sucedaneo de la ratania, droga chilena de exportación. Campesino [Santiago] 81: 11. Jan. 1949. 9.3 So12

43518 PERSIA, G. Technical advice on indeminification for damages following retarded pruning of olive trees. (In Italian.) Genio Rur. 12: 64-68. Jan./Feb. 1949. 281.8 R522

43519 POLLACCI, G. Results of experiments in drying leaves of *Digitalis* and the conservation of their therapeutic properties. (In Italian.) Fitoterapia 20: 6-8. Jan./Feb. 1949. 450 F55

43520 POTTER, J. O. Gourds are the oddest things. Country Gent. 119(4): 162, 190. Apr. 1949. 6 C833

43521 PRILLWITZ, P. M. Production of plantation crops in 1948 [in the Netherlands Indies]. (In Dutch.) Bergcultures 18: 35, 37. Jan. 16, 1949. 22.5 B45

43522 PRINEAS, J. The curative forest plants. (In Greek.) Dasos 2(5): 37-40. 1948. 99.8 D262

43523 RAFOLS, W. DE. Plantas cauchíferas: el kok-saghyz. Madrid, 1948. p. 129-160. 78 R12

43524 ROVESTI, E. Lavender in folklore, in literature and art. (In Italian.) Pianta Officinali 3(11/12): 7-9. Nov./Dec. 1948. 71.8 P57

43525 SCHINDLMAYER, A. Die weberkarde, eine halbvergessene kultur- und heilpflanze. Landfrau 4(2): 17. Feb. 1949. 18 L2337

43526 SIEVERS, A. F., and HIGGBEE, E. C. Plantas medicinales de regiones tropicales y subtropicales. Bolsa de Com., Rosario. Rev. 37(890): 3-12; (891): 9-11, 13-17; (892): 7-13, 15-17. Feb. 15-Mar. 15, 1949. 287 R71

43527 SPANGLER, G. P., and MCINDOE, K. G. Full-spiral tapping of *Hevea brasiliensis*. II. India Rubber World 119: 723-724, 779. Mar. 1949. 305.8 In2

43528 SPECK, F. G. An addendum to "Gourds of the Southeastern Indians." Gourd Seed 10: 3-6, 8. (Cont.) Feb. 1949. 80 G742

43529 THORSEN, P. Amanita muscaria and the fury of the berserks. (In Danish.) Friesia 3: 333-351. Ref. 1948. 450 F91  
English summary.

43530 TOXOPEUS, H. J. On the flower biology, the spontaneous hybridization and the breeding of Java kapok (*Ceiba pentandra* var. *indica*). (In Dutch.) East Indies (Dutch) Alg. Proefsta. v. Landb. Meded. 77, 28 p. 1948. 109.5 Ea73

English summary.  
Also in Landbouw 20: 365-390. Sept./Oct. 1948. 22.5 L23

43531 TUROWSKA, I. Contributions à l'étude des plantes à essences de la famille des Labiées acclimatées et spontanées en Pologne. (Abs.) Akad. Umiejetości. Wydz. Mat.-Przyrodniczy. Compt. Rend. 1948(2/3): 4. Feb./Mar. 1948. 512 K85C

43532 VALENCIA, E. El cocotero. Agr. Mex. 66(2): 14-21. (To be cont.) Feb. 1949. 8 Ag8

43533 VERONA, O. The powder of the Countess of Cinchona, the tree from China in malaria control. (In Italian.) Sci. e Lav. 4: 13-15. Jan. 1949. 475 Sci27

43534 WARD, K. M. The cape gooseberry. Fruit World & Mkt. Grower 50(2): 21-22. Feb. 5, 1949. 80 F948

43535 WELLMAN, F. L. Proyecto de cooperación No. 1. Estudio de plantas de café con el objeto de tener por selección, plantas madres de alta fructificación de las cuales puedan desarrollarse variedades mas productivas para el mejoramiento de este cultivo en Costa Rica. Suelo Tico 1: 364-365. Dec. 1948. 8 Su2

43536 WILDEMAN, E. DE. À propos de médicaments antiléproux d'origine végétale. XIII. Inst. Roy. Colon. Belge. Sect. des Sci. Nat. et Méd. Mém. 17(5), 100 p. 1948. 504 B836M

## SOILS AND FERTILIZERS

### SOIL SCIENCE

43537 ANDERSSON, K. The climate and soils of Sweden. In Åkerman, Å., ed. Svalöf 1886-1946, p. 35-45. Lund, Blom, 1948. 61.9 AL5

43538 BOOR en spade. Auger and spade. Utrecht, Oosthoek, 1948. v. 2, 222 p. 56.9 B64

43539 BUSHINSKIĖ, V. The Soviet science of soil. (In Russian.) Interagra 2: 307-311. 1948. 28 In825  
English summary.

43540 HOYOS, A. Contribución al estudio de los suelos canarios. Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An. 7: 257-271. May/Aug. 1948. 506 Sp12

43541 KELLOGG, C. E. Modern soil science. Sci. Prog. [New Haven] 6: 266-290. 1949. 330 B16

43542 KOHL, E. Neuzeitliche bodenforschung. Orion 4: 50-54. Jan. 15, 1949. 474 Or4

43543 ROY, J. B. Une terre merveilleuse! B. des Agr. 45(4): 12-13, 56. Apr. 1949. 7 B872  
The clay soils of Beauce and their importance to the ceramics industry.

43544 WEIR, W. W. Soil science; its principles and practice. Rev. Philadelphia, Lippincott, 1949. 615 p. Ref. 56 W43

### Soil Physics

43545 ALPAT'EV, A. M. Method of agricultural calculation of precipitation during the warm season of the year. (In Russian.) Vsesouzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(7): 3-8. Ref. 1948. 20 Ak1  
Effect on soil moisture and plant growth.

43546 FERRANDIS, V. A., and GARCIA VICENTE, J. La variación de las propiedades físico-químicas de las arcillas con el tamaño de grano. Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An. 3: 529-604. Ref. Sept./Dec. 1948. 506 Sp12  
English and French summary.

43547 FONT-ALTABA, M. Sobre un metodo de medida del grado de agregación en suelos. Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An. 3: 633-641. Sept./Dec. 1948. 506 Sp12  
English summary.

43548 GHASWALA, S. K. Electrosmosis in soil mechanics. Sci. and Cult. 14: 335-336. Feb. 1949. 475 Sci24

43549 GLIEMEROTH, G. Fragen zur durchführung von bodenbearbeitungsversuchen und zum arbeiten bei stechzylinderuntersuchungen. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 4: 92-102. 1948. 18 K96

43550 HARTSUIKER, K. Soil structure and beet diseases. (In Dutch.) Plattelands-Post 4(5): 7. (To be cont.) Jan. 31, 1948. 12 P69

43551 HOOGTEIJLING, P. J., SIZOO, G. J., and YNTEMA, J. L. Measurements on the radon content of groundwater. Physica 14: 73-80. Apr. 1948. 334.8 P565

43552 HOOGTEIJLING, P. J., and SIZOO, G. J. Radioactivity and grain size of soil. Physica 14: 65-72. Apr. 1948. 334.8 P565

43553 HOOGTEIJLING, P. J., and SIZOO, G. J. Radioactivity and mineral composition of soil. Physica 14: 357-366. Ref. Aug. 1948. 334.8 P565



- 43554 HOORE, J. D', and FRIPIAT, J. Recherches sur les variations de structure du sol à Yangambi (Congo Belge). *Inst. Natl. pour l'Étude Agron. du Congo Belge. P. Sér. Sci.* 38, 59 p. Ref. 1948. 24 In7
- 43555 HOPGOOD, R. F. Quantitative change in scree mixture. *Alpine Gard. Soc. Q. B.* 17: 81-87. Mar. 1949. 84 AL6
- Retention of soil moisture.
- 43556 INTERNATIONAL CONFERENCE ON SOIL MECHANICS AND FOUNDATION ENGINEERING, 2, ROTTERDAM, 1948. Proceedings. Haarlem, Netherlands, 1948. 331 p. 290.9 In862
- 43557 ISHIBASHI, Y. A simple method to measure the hardness of surface soil. (In Japanese.) *Nogyodokoku-Kenkyu* 16: 29-35. Ref. Oct. 1948. 290.8 N68
- 43558 JIMENEZ SALAS, J. A. El II congreso internacional de mecánica del suelo. Spain. *Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 3: 653-657. Sept./Dec. 1948. 506 Sp12
- 43559 JUUSELA, T. Effect of draining on soil moisture content, frost formation and temperature. (In Swedish.) *Prakt. Försöksverks.* 5: 47-48. May/June 1948. 20 P88
- 43560 KOLIASEV, F. E. Method of determining "ripeness" of the soil. (In Russian.) *Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(7): 40-42. 1948. 20 Ak1
- Device for measuring soil moisture.
- 43561 MAZHAROV, P. P. Expenditure of moisture by the soil during the vegetation period of the 1946 drought year. (In Russian.) *Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(4): 30-35. 1948. 20 Ak1
- Observations on wheat transpiration and moisture evaporation.
- 43562 MORITA, Y., and ISHIHARA, M. Studies on physical properties of soils in relation to fruit tree growth. I-II. (In Japanese.) *Hort. Assoc. Japan. J.* 17: 92-99, 188-194. Ref. Mar.-Dec. 1948. 87 H78
- I, Survey of orchard soils; II, Soil atmosphere and tree growth.
- 43563 NISHIUCHI, H. The temperature-systems of soil and water temperature in pots. (In Japanese.) *Hort. Assoc. Japan. J.* 17: 111-114. Mar. 1948. 87 H78
- 43564 OLSEN, M. Soil water resources. (In Danish.) *Hedelsk. Tidsskr.* 70: 3-14, 34-38. Jan. 10, 1949. 11 H35
- 43565 SPANGLER, M. G. Soil engineering. Ames, Iowa, 1949. 102 p. 290 Sp22
- 43566 VERSHININ, P. V. About some natural laws which are important in soil tillage. (In Russian.) *Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(4): 10-16. 1948. 20 Ak1
- Physical factors in soil structure.
- Soil Chemistry and Mineralogy
- 43567 ALBAREDA, J. M., BURRIEL, F., and MUNOZ TABOADELA, M. Manganese total in relación con el color de las tierras negras andaluzas. Spain. *Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 3: 439-488. Ref. Sept./Dec. 1948. 506 Sp12
- English and French summary.
- 43568 ALLISON, F. E., and STERLING, L. D. Nitrate formation from soil organic matter in relation to total nitrogen and cropping practices. *Soil Sci.* 67: 239-252. Ref. Mar. 1949. 56.8 So3
- 43569 BHUIYAN, S. Transformation of nitrogen in rice soil. *Soil Sci.* 67: 231-237. Ref. Mar. 1949. 56.8 So3
- 43570 BURRIEL, F., HERNANDO, V. El fosforo en los suelos españoles. III. Spain. *Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 3: 489-527. Ref. Sept./Dec. 1948. 506 Sp12
- English and French summary.
- 43571 CHAVERRI R., G. Algunas propiedades físico-químicas de la fracción coloidal del suelo. *Suelo Tico* 1: 386-390. Dec. 1948. 8 Su2
- 43572 COLEMAN, O. T. County soil-testing laboratories in Missouri. *Ext. Serv. Rev.* 20: 44, 54. Mar. 1949. 1 Ex892Ex
- 43573 DEMBINSKI, J. Über die ermittlung der bodenreaktion. *Berufsgärt.* 2(2): 1. Feb. 1949. 80 B463
- 43574 DERKSEN, H. J. C. Send in your soil samples now. (In Dutch.) *Boer en Tuinder* 3(115): 6. Mar. 19, 1949. 12 B632
- 43575 DOERELL, E. S. Unsere kulturböden in der betrachtung Johannes Görbings (in gekürzter form). *Kuratorium f. Tech. in der Landw. Ber. über Landtech.* 4: 103-108. 1948. 18 K96
- 43576 FERRETTO, R. F. Base exchange in the soil, potash and calcium. (In Italian.) *Coop. e Agr.* 31(2): 1. Jan. 15, 1949. 16 C78
- 43577 GAPON, E. N., and CHERNIKOVA, T. N. Chromatographic exchangeable adsorption of cations on soil minerals. (In Russian.) *Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(7): 26-28. 1948. 20 Ak1
- 43578 GASPART, E. Contribution à l'étude du mouvement des nitrates dans le sol. *Ann. de Gembloux* 55: 1-27. Ref. First Quart. 1949. 13 G28
- 43579 GERRETSEN, F. C. The applicability of the Aspergillus method for the practical determination of potassium and phosphate in soil samples. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 487-488. 1949. 442.9 In83
- 43580 GULLY, E., and HILPOLTSTEINER, L. Über den gehalt südbayerischer moorböden an gesamt-mangan (und gesamteisen) sowie dessen löslichkeit in verdünnten säuren. *Landw. Jahrb. f. Bayern.* 25(2): 75-108. Dec. 1948. 18 L24
- 43581 GUTIERREZ RIOS, E., and GONZALEZ GARCIA, F. Sobre la serie isomorfa, montmorillonita-beidellita. Spain. *Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 3: 605-621. Ref. Sept./Dec. 1948. 506 Sp12
- English and French summary.
- 43582 GUTIERREZ RIOS, E., and HERNANDO, L. Yacimientos de bentonita en Marruecos Español. II. Spain. *Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 3: 623-631. Sept./Dec. 1948. 506 Sp12
- English and French summaries.
- 43583 HAMENCE, J. H. Determination of selective weedkillers in soils, etc. (Abs.) *Chem. & Indus.* 1949: 173. Mar. 12, 1949. 382 M31C
- 43584 HANLEY, F. The value and use of soil analysis. *Farming [Norwich]* 3: 44-48. Feb. 1949. 10 F2236
- 43585 HOYOS DE CASTRO, A., and PASCUAL TALAVERA, M. Influencia del pH sobre las propiedades de suspension de materiales arcillosos. Spain. *Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An.* 7: 273-313. May/Aug. 1948. 506 Sp12
- 43586 KUDRIN, S. A. The entry of nitrogen through precipitation into the soils of the Sierozem zone. (In Russian.) *Pochvovedenie* 1948: 608-611. Ref. Oct. 1948. 57.8 P34
- 43587 LEANDRI, J. Les tourbières et leur étude. *Terre et la Vie* 95: 161-187. Ref. Oct./Dec. 1948. 410.9 P21
- 43588 LITYŃSKI, M. T., and ZIMNY, F. A new electrometrical method for the determination of the lime requirement of the soil. (Abs.) *Akad. Umiejetności. Wyzd. Mat.-Przyrodniczy. Compt. Rend.* 1948(2/3): 7-8. Feb./Mar. 1948. 512 K85C
- 43589 MAREL, H. W. VAN DER. Mineralogical composition of a heath podzol profile. *Soil Sci.* 67: 193-207. Ref. Mar. 1949. 56.8 So3
- 43590 MAUME, L., and DULAC, J. Acide phosphorique "présumé assimilable" et acide phosphorique réellement assimilé des sols à vigne. Paris. *Acad. des Sci. Compt. Rend.* 228: 944-946. Mar. 14, 1949. 505 P21
- 43591 MULDER, E. G. The microbiological estimation of available copper and molybdenum in soil. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 489-491. 1949. 442.9 In83
- 43592 PARKER, F. W. Future development of the radioactive research program. *Com. Fert.* 78(4): 18-19, 40, 42-44. Apr. 1949. 57.8 C73
- 43593 PAUL, H., AND DELONG, W. A. Phosphorus studies. I. *Sci. Agr.* 29: 137-147. Ref. Mar. 1949. 7 Sci2
- I, Effects of flooding on soil.
- 43594 PEECH, M., and YOUNG, T. W. Chemical studies on soils from Florida citrus groves. *Fla. Agr. Expt. Sta. B.* 448, 88 p. Sept. 1948. 100 F66S
- A revision of Bulletin 340.



43595 PEREZ MATEOS, J. El estudio mineralógico de las arenas. Spain. Inst. Españ. de Edafología, Ecol. y Fisiol. Veg. An. 3: 643-652. Sept./Dec. 1948. 506 Sp12

43596 RAUFER, W. B. Missouri counties provide soil testing service. Better Farming Methods 21(5): 24-25. May 1949. 58.8 B46

43597 RUÍZ DÍAZ, I. M. Análisis de la tierra. Rev. de Agr., Com. e Indus. [Panama] 8(89): 29-30. Jan. 1949. 8 R3291

43598 RUPP, E. Is your soil sick? Cowley County farmers find out about theirs. Kans. Farmer 86(5): 34-36. Mar. 5, 1949. 6 K13  
Soil analysis equipment.

43599 SCHOONOVER, W. R., and MARTIN, J. C. Soil analysis is not an answer but merely a tool in soil problems study. Sunsweet Standard 32(10): 16. Mar. 1949. 286.83 Su7

43600 SHUKEVICH, M. M. Mineralogical composition of some types of glacial deposits in European U.S.S.R. and its change during the processes of re-drifting and soil formation. (In Russian.) Pochven. Inst. im. V. V. Dokuchaeva. Trudy 28: 5-104. Ref. 1948. 56.9 P44

43601 SKERMAN, V. B. D., and BROMFIELD, S. M. Biological oxidation of manganous sulphate in soils. Nature [London] 163: 575. Apr. 1949. 472 N21

43602 SOKOLOV, A. V., and KORITSKAIA, T. D. Movement of phosphates in the soil. (In Russian.) Pochvovedenie 1948: 636-640. Oct. 1948. 57.8 P34

43603 STENUIT, Signification et importance de l'analyse du sol. Agriculteur 53(8): 3-4. Feb. 20, 1949. 13 B63P

43604 WALRATH, E. K. Soil testing grows up! East. States Coop. 25(4): 18-19. Apr. 1949. 280.28 Ea7

43605 WERTH, A. J. Bodenschätzung einst und jetzt. Süddeut. Erwerbsgärt. 3: 36-37, 46-47. Jan. 29-Feb. 5, 1949. 80 Su2

#### Soil Biology

43606 BHAT, J. V., and PALACIOS, G. Studies on the influence of some bacterial cultures in the nitrogen status of soil. 3. The influence of *Pseudomonas aeruginosa* in the nitrogen status of soil. Bombay. U. J., Sect. B, Biol. Sci. 17(3): 30-34. Nov. 1948. 513 B633

43607 CASTELLI, T. Inoculation of meadow legumes. (In Italian.) Agricoltore [Perugia] 6(5): 2. Mar. 15, 1949. 281.8 Ag822

43608 CHERNOMAZ, P. A. Legumes in the experiments of the Polevaia Opytnaia Stantsiia. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Polev. Opytn. Stanfs. Iz Rezul't. Rabot 1945/46: 95-97. 1948. 64.9 M85

Effect of nitragin inoculation on yields.

43609 DRAGHETTI, A. Biological agriculture. (In Italian.) Allevatore 5(1): 1. Jan. 2, 1949. 49 AL55

Also in Alimenti 5: 5-6. Jan. 1949. 389.8 AL44

43610 DRIFT, J. VAN DER. The soil fauna in our forests. (In Dutch.) Nederland. Boschbouw-Tijdschr. 21: 67-76. Mar. 1949. 99.8 N28

43611 GLATHE, H. Probleme der bodenbiologie. Landw. Jahrb. f. Bayern. 25(2): 109-115. Dec. 1948. 18 L24

43612 GOETZ, C. Bodenbiologische beobachtungen aus der stallmistanwendung bei der diesjährigen kartoffelbestellung. Saat u. Ernte 3(6): 9. June 1948. 18 Sa12

43613 JONES, P. C. T., and MOLLISON, J. The estimation of the number of microorganisms in soil by direct examination. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 461-463, 1949. 442.9 In83

43614 KÜHNELT, W. Der anteil der tierwelt am stoffumsatz im boden. Bodenkultur 2: 49-53. Ref. 1948. 19 B635

43615 LAMPOVSECHIKOV, P. K. Natural inoculation of clover on various soils. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(10): 39-44. Ref. 1948. 20 Ak1

43616 MARSZEWSKA-ZIEMIECKA, J. The microbial characteristics of drained peaty soils. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 495-497. 1949. 442.9 In83

Includes discussion.

43617 MATCHETTE, J. A. Legume inoculation making strong progress in West. West. Feed & Seed 4(3): 14-15, 18. Mar. 1949. 389.78 W52

43618 NOVOGRUDSKII, D. M. New method of investigating the micro-flora of the soil. (In Russian.) Akad. Nauk SSSR. Izv. Ser. Biol. 1948: 710-731. Ref. Nov./Dec. 1948. 511 Sa2B

43619 OVERGAARD, C. Freelifving nematodes and soil microbiology. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 483-485. 1949. 442.9 In83  
Includes discussion.

43620 POCHON, J. Recherches sur les processus biologiques d'ammonification dans le sol. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 479-481. 1949. 442.9 In83

Includes discussion.

43621 RAO, M. S. S., IYA, K. K., and SREENIVASAYA, M. Microbiological formation of elemental sulphur in coastal areas. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 494-495. 1949. 442.9 In83

43622 RUSSELL, E. W. The value of micro-organisms. Amateur Gard. 65(3380): 22, 26. Feb. 22, 1949. 80 Am13  
In soils.

43623 SINGH, B. N. The biology of Myxococcaceae from soil. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 465-466. 1949. 442.9 In83

43624 SISANI, L. Nitrogen fixation in legumes. (In Italian.) Agricoltore [Perugia] 6(2): 2. Jan. 30, 1949. 281.8 Ag822

43625 SYMES, E. L. Bio-physical fertility factors. Sugar J. 11(10): 6, 8, 10-13. Ref. Mar. 1949. 65.8 Su391

In soils.

43626 TCHAN, Y. T. Technique nouvelle pour l'étude directe de la microflore du sol. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 463-465. 1949. 442.9 In83

43627 VERNER, A. R., and ORLOVSKII, N. V. Role of sulfate reducing [anaerobic] bacteria in the salinization of soils of Baraba. (In Russian.) Pochvovedenie 1948: 553-560. Ref. Sept. 1948. 57.8 P34

43628 VLITOS, A. J., and PRESTON, D. A. Seed treatment for field legumes. Okla. Agr. Expt. Sta. B. B-332, 11 p. Ref. Mar. 1949. 100 Ok4

43629 WHITE, H. C. Trees go wild in "crazy man's" orchard. Organic Gard. 14(4): 20-24. Apr. 1949. 56.8 Or3

Biological aspect of soil management.

#### Soil-Plant-Animal Relationships

43630 ALBRECHT, W. A. Climate, soil, and health. n. p., 1948. 16 p. 56.6 AL12C

43631 ALLRED, B. W. Grasses—man's bread and meat. J. Soil & Water Conserv. 4: 23-26. Jan. 1949. 56.8 J822

43632 BLAU, L. W. The conservation of man and the Texas Academy of Science. Tex. Acad. Sci. Conserv. Council. Monog 2: 3-10. Jan. 1949. 279.9 T312  
Effect of soils upon health.

43633 EVANSON, L. Nutrition and the soil. North Dakota Union Farmer 15(22): 10. Apr. 4, 1949. 280.28 N812

43634 FITE, C. A. Health from fertile soils. New Agr. 31(6): 6-7. Mar. 1949. 66.8 Su32

43635 HOPPER, E. G. Southern Rhodesia needs Bromfield too. Veld Trust News 5(5): 20-21. Feb. 1949. 56.8 V54

43636 KING, F. C. Whither civilisation? II-III. Guild Gard. 24(3): 16-17; (4): 12-13. Mar.-Apr. 1949. 80 G94

Organic gardening.

43637 MCVICKAR, M. H. Fertilizer—a sound investment for the dairy farmer. Fert. Rev. 24(2): 8-9, 12. Mar./Apr. 1949. 57.8 F414

43638 MALLINJOU, E. Décalcification et carence de calcium. Inform. Maroc. 417: 1-2. Jan. 8, 1949. 281.8 In3

Need for calcium in soils and its relation to nutrition.

43639 PIENAAR, C. J. Field management in the Suurveld and Border Districts. (In Afrikaans.) Wolboer 1949(18): 13-14. Jan. 1949. 45.8 W83  
Soil-plant-animal relationships.



43640 ROCKWELL, B. A. Our health springs from the soil—save both. *Pa. Co-op Rev.* 16(5): 20-25. Apr. 1949. 280.28 P38

43641 RODALE, J. I. Nitrates attacked by soil scientist. *Organic Gard.* 14(4): 12-16. Apr. 1949. 56.8 Or3

Soil-plant-animal relationships.

43642 RODALE, J. I. The organic front. Emmaus, Pa., Rodale, 1948. 199 p. 56.6 R610

Soil-plant-animal relationships.

43643 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. More milk from your pastures, by L. A. Moore, R. E. Wagner, and K. M. Gapen. Washington, 1949. 4 p. 1.914 R2R11

43644 VERNEL, G. De la pauvreté du sol en acide phosphorique, une de ses conséquences: la stérilité des vaches laitières. *Terre d'Oc* 31: 75-76. Feb. 1949. 14 Ar5

43645 WICKENDEN, L. Louis Bromfield and the inexhaustible mine. *Organic Gard.* 14(4): 43-45. Apr. 1949. 56.8 Or3

43646 WREATH, P. C., JR. Hamps help restore balance of nature; research, experimentation and good livestock is helping reclaim "spoil banks" of the strip mining industry. *Amer. Hampshire Herdsman* 24(3): 16-17. Mar. 1949. 46.8 Am33

#### Soil Genesis, Formation, Classification, and Mapping

43647 ABLEITER, J. K. Soil classification in the United States. *Soil Sci.* 67: 183-191. Ref. Feb. 1949. 56.8 So3

43648 ANDERSON, M. A. A new look at the soil. *Crops & Soils* 1(6): 12-13. Mar. 1949. 6 W55

Soil type study in Iowa.

43649 APPELMANS, F. Method of making soil maps. (In Flemish.) *Agricoltura [Louvain]* 47: 63-71. Jan. 1949. 13 R32

43650 BARNES, C. P., and HARPER, W. G. Interpretive soil classification: agricultural use and management. *Soil Sci.* 67: 141-149. Feb. 1949. 56.8 So3

43651 BARNES, C. P. Interpretive soil classification: relation to purpose. *Soil Sci.* 67: 127-129. Feb. 1949. 56.8 So3

43652 BENNEMA, J. The soil survey on Walcheren. (In Dutch.) In *Boor en spade*, p. 43-46. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43653 BOUILLENNE, R., and FOURMARIER. À propos de l'évolution des sols dans les régions tropicales. *Inst. Roy. Colon. Belge. B. des Seances* 19: 542-563. 1948. 504 B836

43654 BOWSER, W. E., and others. Soil survey of Peace Hills sheet. Alberta. U. Facul. Agr. B. 48, 72 p. Sept. 1947. 101 AL1B

R. L. Erdman, F. A. Wyatt, and J. D. Newton, joint authors.

43655 BURINGH, P. List of areas, already surveyed, and program for 1948. (In Dutch.) In *Boor en spade*, p. 69-76. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43656 BURINGH, P. The Soil Survey Institute in 1947. (In Dutch.) In *Boor en spade*, p. 1-14. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43657 CLINE, M. G. Basic principles of soil classification. *Soil Sci.* 67: 81-91. Feb. 1949. 56.8 So3

43658 EISING, R. M. What is [soil] mapping? 1. (In Dutch.) *Groenten en Fruit* 4: 581-582. Mar. 10, 1949. 80 G89

43659 FINK, J. Zur frage der methode der bodenkartierung. *Bodenkultur* 2: 209-216. 1948. 19 B635

43660 GARDNER, R. A., and RETZER, J. L. Interpretive soil classification: timber, range, and watersheds. *Soil Sci.* 67: 151-157. Ref. Feb. 1949. 56.8 So3

43661 HAANS, J. C. F. M. The soil survey of Bergen op Zoom. (In Dutch.) In *Boor en spade*, p. 52-55. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43662 KUIPERS, S. F. The soil survey of Tholen and Schouwen-Duiveland. (In Dutch.) In *Boor en spade*, p. 46-48. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43663 LIERE, W. J. VAN. General soil survey in South-Holland. (In Dutch.) In *Boor en spade*, p. 35-39. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43664 LIERE, W. J. VAN. The soil survey in Epe. (In Dutch.) In *Boor en spade*, p. 21-26. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43665 LUNT, H. A., and SWANSON, C. L. W. Mappable characteristics of forest soils. *J. Soil & Water Conserv.* 4: 5-12, 44. Ref. Jan. 1949. 56.8 J822

43666 MARTÍNEZ CABRÉ, G. D. Estado actual de la cartografía. Buenos Aires, 1948. 91 p. 325 M36

Bref exposé de mes travaux personnels intéressant la connaissance des sols méditerranéens, by E. H. del Villar, p. 81-91.

43667 MEER, K. V. D. The soil survey in the Bulb district. (In Dutch.) In *Boor en spade*, p. 39-43. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43668 MOON, J. W., LIGON, W. S., and HENDERSON, J. R. Soil classification and soil maps: original field surveys. *Soil Sci.* 67: 169-175. Feb. 1949. 56.8 So3

43669 MUCKENHIRN, R. J., and others. Soil classification and the genetic factors of soil formation. *Soil Sci.* 67: 93-105. Ref. Feb. 1949. 56.8 So3

E. P. Whiteside, E. H. Templin, R. F. Chandler, Jr., and L. T. Alexander, joint authors.

43670 NIKIFOROFF, C. C. Weathering and soil evolution. *Soil Sci.* 67: 219-230. Mar. 1949. 56.8 So3

43671 NIKITINA, A. I. Brown Forest soils of mountainous Tadzhikistan. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trudy* 28: 196-245. Ref. 1948. 56.9 P44

43672 NOGINA, N. A. Effect of rocks on podzolization in the mountainous part of Central Ural. (In Russian.) *Pochven. Inst. im. V. V. Dokuchaeva. Trudy* 28: 105-195. Ref. 1948. 56.9 P44

43673 NYGARD, I. J., and HOLE, F. D. Soil classification and soil maps: units of mapping. *Soil Sci.* 67: 163-168. Feb. 1949. 56.8 So3

43674 OLESEN, J. Utilization of standard soil surveys. (In Danish.) *Dansk Landbr.* 68: 140-141. Mar. 17, 1949. 280.28 V91

43675 ORVEDAL, A. C., BALDWIN, M., and VESSEL, A. J. Soil classification and soil maps: compiled maps. *Soil Sci.* 67: 177-181. Feb. 1949. 56.8 So3

43676 POCHVENNYĬ INSTITUT IM. V. V. DOKUCHAEVA. Materialy po izucheniiu genezisa pochv [Materials on the study of soil genesis]. Moskva, Akademika Nauk SSSR, 1948. 247 p. (Trudy v. 28) 56.9 P44

43677 POLLASTRI, F. Sicilia: notizie e commenti ecologici di agricoltura siciliana; vol. 1. La terra [Sicily; ecological notes and comments on Sicilian agriculture. vol. 1. The land]. Palermo, Indus. Riunite Editoriali Siciliane, 1948. 240 p. 281.176 P76

Soil types and nomenclature.

43678 PONS, L. J. The soil survey in "Great Maas and Waal." (In Dutch.) In *Boor en spade*, p. 26-31. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43679 PRINCIPI, P. The productivity and fertility of the principal pedoclimatic zones of the earth. (In Italian.) *Georgofili [Firenze] (ser. 6)* 12: 111-126. Ref. Jan./June 1948. 507 F51

43680 RIECKEN, F. F., and SMITH, G. D. Lower categories of soil classification: family, series, type, and phase. *Soil Sci.* 67: 107-115. Ref. Feb. 1949. 56.8 So3

43681 RUTY, O. La région naturelle de Blida. *Rev. Agr. de l'Afrique du Nord* 47: 68-70. Feb. 4, 1949. 80 R326

Soils.

43682 SCHELLING, J. The soil survey in Northern Limburg. (In Dutch.) In *Boor en spade*, p. 55-57. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43683 SCHELLING, J. The soil survey near Groesbeek. (In Dutch.) In *Boor en spade*, p. 19-21. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43684 SCHIJEN, J. M. The soil survey in the "land of Heusden and Altena." (In Dutch.) In *Boor en spade*, p. 49-51. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.



43685 SMITH, R. A comparison of the reddish chestnut soils of the United States with the red-brown earths of Australia. *Soil Sci.* 67: 209-218. Ref. Mar. 1949. 56.8 So3

43686 SMITH, R. The farmer and the soil. IV. How soil is formed. *Westralian Farmers' Co-op Gaz.* 15 (365): 49, 51-52. Jan. 1949. 280.28 W522

43687 SOIL classification symposium. *Soil Sci.* 67: 77-191. Feb. 1949. 56.8 So3

With an introduction by C. E. Kellogg.

43688 STOKSTAD, O. L., and HUMBERT, R. P. Interpretive soil classification: engineering properties. *Soil Sci.* 67: 159-161. Feb. 1949. 56.8 So3

43689 STREMMER, H. Das Institut für Bodenkartierung der Hauptverwaltung Land- und Forstwirtschaft und seine arbeiten seit 1. Januar 1947. *Forstw., Holzw.* 2: 329-330. Nov. 1, 1948. 99.8 F7793

43690 THORP, J., and SMITH, G. D. Higher categories of soil classification: order, suborder, and great soil groups. *Soil Sci.* 67: 117-126. Feb. 1949. 56.8 So3

43691 VANDERHASSELT, P. Types of loamy soil and their origin. (In Flemish.) *Agricultura [Louvain]* 47: 23-39. Jan. 1949. 13 R32

43692 VEENENBOS, J. S. The soil survey in the border area of the Northeastpolder of the former Zuyder Zee. (In Dutch.) In *Boor en spade*, p. 15-19. Utrecht, Oosthoek, 1948. 56.9 B64

English summary.

43693 WINTERS, E. Interpretative soil classifications: genetic groupings. *Soil Sci.* 67: 131-139. Ref. Feb. 1949. 56.8 So3

#### SOIL MANAGEMENT

43694 BAEYENS, J., and SCHEYS, G. Recherches sur les sols des régions inondées par l'eau de mer en Belgique. 4. (In Flemish.) *Agricultura [Louvain]* 46(4): 1-54. Nov. 1948. 13 R32

French summary.

43695 BARNARD, J. W. Conservation farming pays dividends. *Everybodys Poultry Mag.* 53(11): 7, 16-17. Dec. 1948. 47.8 F213P

43696 BECHTOLD, C. D. Rejuvenating leveled land. *Reclam. Era* 35: 57-58. Mar. 1949. 156.84 R24

43697 BEILMANN, A. P. If your soil is clayey. *Horticulture* 27: 136. Apr. 1949. 80 H787

43698 BROWNING, B. The Muskingum story. *J. Soil & Water Conserv.* 4: 13-16, 20. Jan. 1949. 56.8 J822

Watershed management.

43699 BRÜNE, F. Zur bekämpfung des knicks in marschböden. *Landwirtschaftsblatt Weser-Ems* 96: 177-178. Mar. 17, 1949. 18 L2345

43700 CIAMPI, V. The Pelo Pardi system for Tavoliere di Puglia. (In Italian.) *Gior. d'Ital. Agr.* 32(9): 2. Feb. 26, 1949. 16 G433

A method of soil preparation for increasing productivity of arid lands.

43701 CONRAD, Utilisation rationnelle des terres en friche de nature sablonneuse, acide et tufacée. *Rev. Hort. [Paris]* 120: 281. Aug. 1948. 80 R32

43702 EICHMANN, O. T. If your soil is sandy. *Horticulture* 27: 136-137. Apr. 1949. 80 H787

43703 GRAY, S. D. Some fundamental principles of soil building. *Guide Post* 26(3): 5, 7, 9, 11, 14, 17. Mar. 1949. 75.8 G94

43704 HARPER, H. J., and PLICE, M. J. Suggestions for improving slick-spot soils. *Okl. Agr. Expt. Sta. B. B-329*, 8 p. Feb. 1949. 100 Ok4

43705 JANNA, A. Problems contingent on reclamation in Venetia. (In Italian.) *Agr. delle Venezie* 2: 986-1005. Nov./Dec. 1948. 16 Ag826

43706 MIKHAILOV, D. IA. Improvement of stony areas by silt deposition. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(6): 40-41. 1948. 20 Ak1

43707 RIADNOVA, I. M. Methods of soil management in the orchard. (In Russian.) *Sad i Ogorod* 1948 (9): 27-30. Sept. 1948. 87 Sa1

43708 ROGERS, N. F. The growth and development of black walnut (*Juglans nigra* L.) on coal strip-mined land in southeast Kansas. *Kans. Acad. Sci. Trans.* 52: 99-104. Mar. 1949. 500 K13T

43709 WALTER, G. H. Agriculture and strip coal mining. *Agr. Econ. Res.* 1: 24-29. Jan. 1949. 1 Ec7Agr

43710 WOOD, J. F. Preparation of soil for acid-loving plants. *Gard. Gossip* 24(3): 8. Mar. 1949. 80 G1625

#### Soil Fertility

43711 ALDRICH, R. E. Answers to your cotton fertilizer questions. *South. Agr.* 78(3): 13, 30. Mar. 1949. 6 So83A

43712 ARTEMOV, M. I. Kak my povysili plodorodie pochvy [How we increased the fertility of our soil]. Moskva, Sel'khozgiz, 1948. 47 p. (Proizvodstvennyĭ opyt Geroev Sotsialisticheskogo Truda) 281.179 Ar7

43713 AUDIDIER, L. Le sodium et le potassium dans l'alimentation de la betterave. *Potasse* 163: 48-51. Mar. 1949. 57.8 P84

43714 BABO, VON. Rentabilität der mineraldüngung? *Bad. Landw. Wchbl.* 116: 18-19. Jan. 15, 1949. 18 B142

43715 BAKER, C. E. Requirements of Indiana orchard soils for the micro-nutrient elements. *Hoosier Hort.* 31: 35-41. Mar. 1949. 81 In2H

43716 BALLS, W. L. Cotton crop yield in relation to the application of fertilizers. *Nature [London]* 163: 452. Ref. Mar. 19, 1949. 472 N21

43717 BARDIN, R., and MCCORMICK, J. A. Boron nutrition of celery. *West. Grower & Shipper* 20(5): 20-21. Apr. 1949. 280.38 W52

43718 BAUR, M. Richtige anwendung des stallmistes. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 69. Jan. 29, 1949. 18 L2346

43719 BEAR, F. E. The new look in soils. *Rural New-Yorker* 99: 258, 261. Apr. 2, 1949. 6 R88

Soil fertility and conservation.

43720 BELL, H. K. Peach soil management. *N. J. State Hort. Soc. Hort. News* 30: 2150-2151, 2157-2158. Mar. 1949. 81 N46

43721 BELOSHAPKO, M. K. Effect of clover mixed with timothy, lupine and peat during the deepening of the tillable layer [of Podzolic soils]. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Polev. Opytn. Stanfs. Iz Rezul't. Rabot* 1945/46: 216-221. 1948. 64.9 M85

43722 BERG, C. V. D. The culture of barley on soils that have been sprayed with salt water. (In Dutch.) *Natl. Com. v. Brouwergerst. Jaarb.* 1949: 36-47. 390.9 N21

43723 BERGE, H. Stickstoffdüngung bei schmetterlingsblütern? *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 92. Feb. 5, 1949. 18 L2346

43724 BERGER, K. C. Does alfalfa need boron? *Hoard's Dairyman* 94: 255. Mar. 25, 1949. 44.8 H65

43725 BIGOURDAN, J. La fumure des plantes sarclées. *B. des Engrais* 21: 30-32. Feb. 1949. 57.8 B87

43726 BONNET, J. A. Resultados sobre experimentación de abono con caña de azúcar en la Estación Experimental Agrícola de Río Piedras. *Rev. Azucarera* 2: 3-7, 16. 1948. 65.8 R325

43727 BUIE, T. S. Undeveloped soil resources of the southeastern Atlantic Coastal Plain. *Better Crops with Plant Food* 33(3): 25-26, 43-45. Mar. 1949. 6 B46

43728 BULLOCK, J. F. Tobacco fertilizer recommendations for South Carolina. *Prog. Farmer, Car.-Va.* Ed. 64(3): 18. Mar. 1949. 6 P945

43729 CALDWELL, A. C. The effect of corn population on the efficiency of use of fertilizer. *Natl. Joint Com. Fert. Appl. Proc.* 24: 55-56. 1948. 57.9 N216

43730 CALDWELL, A. C. The effect of weed control on the efficiency of use of fertilizer for flax. *Natl. Joint Com. Fert. Appl. Proc.* 24: 92. 1948. 57.9 N216

43731 CERVI, B. Something useful to see, study and apply. (In Italian.) *Avvenire Agr.* 57: 10-11. Jan. 1949. 16 Av9

Fertilizers as used by Prof. Draghetti.

43732 CHAPMAN, C. J. 1948 results of fertilizer demonstrations on small grain and hay. *Natl. Joint Com. Fert. Appl. Proc.* 24: 70-72. 1948. 57.9 N216

43733 CHOQUET, A. Mon engrais n'a pas joué!!! *Jard. Ouvrier de France* 1948: 7. Nov./Dec. 1948. 80 J283

43734 CLARK, T. E. Some soil problems in the Pennines. *North. Gard.* 3: 64-68. Mar. 1949. 80 N816



- 43735 COIC, Y. L'apport, à dose normale, et à une époque favorable, d'engrais azotés immédiatement assimilables peut provoquer ultérieurement un besoin supplémentaire d'azote. Acad. d'Agr. de France 35: 79-82. Jan. 19/26, 1949. 14 P215
- 43736 COLEMAN, O. T. Lime your soils for better crops. Mo. Agr. Col. Ext. C. 566, 27 p. Nov. 1948. 275.29 M69C
- 43737 COOK, H. L. Use more phosphate for more profits. Ohio Farm Bur. News 28(8): 24. Mar. 1949. 6 Oh34
- 43738 COX, A. E. Plant food primer. Canad. Homes & Gard. 26(4): 72-73. Apr. 1949. 296.8 C16
- 43739 DAVIS, R. Experiments in fertilizing. Midwest Turf 3: 1-3. Jan. 1949. 60.18 M58
- 43740 DE HART, P. H. Are you shortchanging your corn crop? Better Crops with Plant Food 33(3): 23-24, 45-46. Mar. 1949. 6 B46
- 43741 DEITEMEYER, C. Spring tonic for wheat. Nebr. Farmer 91(6): 1, 20. Mar. 19, 1949. 6 N27
- Nitrogen fertilizers.
- 43742 DEMBINSKI, J. Die gründungung. Berufsgärt. 2(2): 3-4, 6. Feb. 1949. 80 B463
- 43743 DIEMER JOHANNSEN, J. El salitre, factor de producción. Agrario 14(405): 13. Jan. 1949. 9.3 Ag85
- 43744 DRAGHETTI, A. Why are winter nitrates necessary for wheat growing? (In Italian.) Campagnolo 1949: 1-2. Jan. 1949. 16 C15
- 43745 DUNTON, E. M., JR., and others. Fertilizer studies with Irish and sweet potatoes at the Virginia Truck Experiment Station, 1947 and 1948. Natl. Joint Com. Fert. Appl. Proc. 24: 100-109. 1948. 57.9 N216
- F. W. Bell, W. C. Hulburt, and D. B. Eldredge, joint authors.
- 43746 DU PLESSIS, H. A. La banane à la Martinique. Cahiers Colon., n. s. 1: 14-22. (To be cont.) Jan. 1949. 286.8 M35
- This first installment discusses the soils of Martinique.
- 43747 ELLENBERG, H. Unkrautgesellschaften als mass für den säuregrad, die verdichtung und andere eigenschaften des ackerbodens. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 4: 130-146. 1948. Ref. 18 K96
- 43748 ELLISON, W. Potato experiments on reclaimed virgin land. Farming [Norwich] 3: 52-55. Feb. 1949. 10 F2236
- Deficiencies in the soil.
- 43749 ENZINGER, H. Wie dünge ich richtig? Salzburger Bauer 4(10): 6-7. Mar. 10, 1949. 19 Sa3
- 43750 ESKEW, E. B., and PADEN, W. R. Influence of high rates of nitrogen on corn yields. Natl. Joint Com. Fert. Appl. Proc. 24: 61-63. 1948. 57.9 N216
- 43751 FAULKNER, R. P. Garden manures and fertilizers. London, Collingridge, 1949. 127 p. 57 F272
- 43752 FELBER, G. W. Mineraldüngung—anders gesehen. Ernährungsdienst 4(18): 3. Mar. 3, 1949. 389.8 Er63
- 43753 FOLLONI, A. For tomorrow's bread increase the nitrogen fertilization. (In Italian.) Romagna Agr. e Zootec. 34, i. e. 33: 1. Jan. 1949. 16 R66
- 43754 GABRIEL, F. Le chaulage des terres. Rev. Agr. de l'Afrique du Nord 47: 86-87. Feb. 11, 1949. 80 R326
- 43755 GARNER, H. V. Nutrition of farm crops. IV. The manuring of root crops. Farming [Norwich] 3: 36-40. Feb. 1949. 10 F2236
- Manurial requirements of sugar beets.
- 43756 GAUL, W. Wann ist die düngung von wiesen wirtschaftlich? Bad. Landw. Wchbl. 116: 130-131. Mar. 12, 1949. 18 B142
- 43757 GHETTI, G. Fertilizers for forage plants. (In Italian.) Campagnolo 1949(2): 2-4. Feb. 1, 1949. 16 C115
- 43758 GILLIEAUX, C. La chaux; amendement physique et chimique. Courrier Hort. 10: 727. Dec. 1948. 80 C834
- 43759 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. The manuring of commercial vegetable crops. Gt. Brit. Min. Agr. and Fisheries. Growmore B. 6, 14 p. 1948. 10 G79Gro
- 43760 GROOT, H. DE. Fertilizing of grassland. VIII. (In Friesian.) Friesch Landbouwblad 46: 123. Mar. 4, 1949. 12 F91
- 43761 GÜNTHER, O. Wirtschaftliche anwendung von handelsdünger und gründungung im Vogelsberg. Landw. Informationsdienst 1949: 1. 18 L2312
- 43762 GUSTIN, R. Shade tree fertilization. Prof. Gard. 1: 16-17. Jan. 1949. 80 P945
- 43763 GUYON, G. En Auvergne: la fumure du pommier. B. des Engrais 21: 46-48. Mar. 1949. 57.8 B87
- 43764 HAFENRICHTER, A. L. Grass roots revitalize tired, worn soils. Oreg. Farmer 72: 197, 219. Mar. 17, 1949. 6 Or32
- 43765 HANLEY, F. Phosphate recovery by crops. Gt. Brit. Min. Agr. Agriculture 55: 524-528. Mar. 1949. 10 G79J
- 43766 HANWAY, J. J., and LUEBS, R. E. Commercial fertilizers for winter wheat in Nebraska. Natl. Joint Com. Fert. Appl. Proc. 24: 85-88. 1948. 57.9 N216
- 43767 HANWAY, J. J., LUEBS, R. E., and RHOADES, H. F. Comparison of anhydrous ammonia with other forms of nitrogen on the yield of winter wheat. Natl. Joint Com. Fert. Appl. Proc. 24: 89-91. 1948. 57.9 N216
- 43768 HART, M. L. T'. An experiment with potassium fertilizing on grassland under mowing and grazing conditions. (In Dutch.) Netherlands. Dir. van den Landb. Verslag van Landbouwk. Onderzoek. 7, 34 p. 1948. 105.2 V61V
- English summary.
- 43769 HAWKINS, A. Response of potatoes to rates and placement of nitrogen in Connecticut, 1948. (Abs.) Amer. Potato J. 26: 93-94. Mar. 1949. 75.8 P842
- 43770 HAWORTH, K. Soil and fertility. Natl. Auricula and Primula Soc. (North. Sect.) Ybk. 1949: 22-26. 84 N213
- 43771 HENRY, L. C. Cropping newly-leveled land. Through Leaves 27: 26-28. Jan./Feb. 1949. 66.8 T41
- 43772 HESTER, J. B. An evaluation of fertilizer practices on vegetable crops. Natl. Joint Com. Fert. Appl. Proc. 24: 25-29. 1948. 57.9 N216
- 43773 HEYDECKER, W. A feeding programme for Chrysanthemums. Gard. Work Amateurs 69: 413-414. (To be cont.) Jan. 29, 1949. 80 G1627
- 43774 HOFFMAN, M. B., and FISHER, E. Nitrogen fertilization with leaf sprays of urea. Mountaineer Grower 19(176): 19-21, 23. Mar. 1949. 80 M86
- 43775 HORNER, G. M. Nitrogen fertilizers in the erosion-control program of the Palouse. (Abs.) Northwest Sci. 22: 35-36. Feb. 1948. 470 N81
- 43776 HUGO, D. Fertilizing citrus in Natal. (In Afrikaans.) Citrus Grower 181: 10-12. Feb. 28, 1949. 80 C495
- 43777 JAIVENOIS, A. La chaux et les arbres fruitiers. Courrier Hort. 10: 663-664. Nov. 1948. 80 C834
- 43778 JOHANSSON, E. Manuring and irrigation trials with strawberries. (In Swedish.) Alnarps Lantbr., Mejeri- och Trädgårdst. Årsskr. 1948: 57-79. Ref. 1949. 104 Sw3Ar
- English summary.
- Appendix. Statistical adaptation of the crop results from manuring and irrigation trials with strawberries at Källby, by R. Lamm, p. 79-82.
- 43779 JUDKINS, W. P. An evaluation of fertilizer practices on tree and small fruit crops. Natl. Joint Com. Fert. Appl. Proc. 24: 16-24. Ref. 1948. 57.9 N216
- 43780 KASERER, H. Keimlingsdüngung mit porro. Gartenbauwirtschaft [Wien] 1949(2): 3-5. Feb. 15, 1949. 80 G1936
- 43781 KENNELLY, A. G. The use of fertilizers in the home garden. New Zeal. J. Agr. 78: 75-78. Jan. 15, 1949. 23 N48J
- 43782 KIRCHMEYER, F. Der frühjahrsanbau steht vor der tür. Oberösterreich. Landwirtschaftsztg. 21(12): 4. Mar. 23, 1949. 19 Ob23
- Fertilizers.
- 43783 KIRCHMEYER, F. Kalkammonsalpeterdüngung zu sommergetreide und hackfrüchte. Burgenländische Bauernbündler 2(3): 5-6. Feb. 10, 1949. 19 B91
- 43784 KLEMM, A. W. Chemical nitrogen gives profitable response by wheat on Missouri heavy bottom soils. Natl. Joint Com. Fert. Appl. Proc. 24: 83-84. 1948. 57.9 N216



- 43785 KONSTANTINOV, N. M. Effect of carbon dioxide fertilization on the yields of sugar beets. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Plev. Opytn. Stanf's. Iz Rezul't. Rabot 1945/46: 138-148. 1948. 64.9 M85
- 43786 LAATSCH, W. Untersuchungen über die bildung und anreicherung von humusstoffen. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 4: 60-86. 1948. Ref. 18 K96
- 43787 LAKSHMIKANTHAM, M., and SANKARAN, A. Optimum nitrogen requirements of sugarcane in the Anapalle tract. Madras Agr. J. 36: 12-22. Jan. 1949. 22 M262
- 43788 LANG, A. L. 1948 fertilizer studies: effect of fertilization and corn spacing. Natl. Joint Com. Fert. Appl. Proc. 24: 59-60. 1948. 57.9 N216
- 43789 LETELIER, E., and SOTOMAYOR, I. Ensayos de abonos en la Estación Experimental de Paine. Agrario 14(405): 12. Jan. 1949. 9.3 Ag85
- 43790 LIMA, P. O. An experiment in fertilization. (In Portuguese.) Observador Econ. e Financ. 13(157): 77-80. Feb. 1949. 280.8 Ob72
- 43791 LONG, O. H. Time and rate of application studies of ammonium nitrate on oats. Natl. Joint Com. Fert. Appl. Proc. 24: 66-68. 1948. 57.9 N216
- 43792 LORENZ, O. A. Placement makes a difference. Fert. Rev. 24(2): 5-7, 11-13. Mar./Apr. 1949. 57.8 F414
- 43793 LOWERY, J. C. We're learning to make corn a real crop. Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(3): 15. Mar. 1949. 6 P945G  
Higher yields with fertilization.
- 43794 LUEBS, R. E., and PUMPHREY, F. V. Fertilizers for irrigated corn on Hastings silt loam. Natl. Joint Com. Fert. Appl. Proc. 24: 56-58. 1948. 57.9 N216
- 43795 LUNDBLAD, K. Methods for estimating the lime requirement in organic soils. (In Swedish.) Sweden. Lantbrukshögsk. Jordbruksförsöksanst. Meddel. 25, 30 p. Ref. 1948. 104 Up63  
English summary.
- 43796 LUSTIG, E. Biologische meliorationen durch forstliche zwischenskulturen. Allg. Forst-u. Holzwirtschaft. Ztg. 60: 55-57. Apr. 1949. 99.8 AL53  
Soils.
- 43797 MCGEORGE, W. T. Nitrogen problems in semi-arid irrigated lands. Com. Fert. 78(4): 20-21, 44, 46-48. Apr. 1949. 57.8 C73
- 43798 MAHONEY, C. H. Vegetables. Fert. Rev. 24(2): 10-11. Mar./Apr. 1949. 57.8 F414
- 43799 MALLINJOUD, E. L'assimilation des phosphates naturels d'après leur finesse de mouture. Inform. Maroc. 408: 1. Nov. 6, 1948. 281.8 In3  
Fertilizers.
- 43800 MANSHARD, E. M. T. Die ernährung der pflanze; ein leitfaden für den gartenbauer. Lüneburg, Kinau, 1948. 60 p. 463.34 M31
- 43801 MARIMPIETRI, L. Phosphate fertilization. (In Italian.) Terra [Firenze] 60(12): 2. Mar. 20, 1949. 16 T274
- 43802 MATTHEWS, E. M. Rates and method of applying fertilizer and side dressings using two spacings—flue cured tobacco. Natl. Joint Com. Fert. Appl. Proc. 24: 142-145. 1948. 57.9 N216
- 43803 MAULDIN, R. C. Green manure crops varied. Tex. Livestock J. 8(2): 8, 28. Feb. 15, 1949. 49 T29
- 43804 MAZAEVA, M. M. Soil conditions for the effectiveness of magnesium fertilizers. (In Russian.) Pochvovedenie 1948: 630-635. Oct. 1948. 57.8 P34
- 43805 MEYER, L. Das wesen der bodenfruchtbarkeit und die landwirtschaftliche bodennutzung. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 4: 7-16. 1948. 18 K96
- 43806 MIALLET, A. Essai de fumure rationnelle sur la tomate. Prog. Agr. et Vitic. 1949: 157-159. Mar. 20/27, 1949. 14 P94
- 43807 MILLAR, C. E., and others. The effect of fertilizer placement on the yield and maturity date of corn at the Michigan Experiment Station in 1948. Natl. Joint Com. Fert. Appl. Proc. 24: 51-54. 1948. 57.9 N216  
L. S. Robertson, R. L. Cook, C. M. Hansen, W. C. Hulburt, and G. A. Cumings, joint authors.
- 43808 MILLS, M. P. An ammonia fertilizer for tung orchards. Prog. Farmer, Miss.-Ark.-La. Ed. 64(4): 120. Apr. 1949. 6 So81
- 43809 MITSCHERLICH, E. A. Die ertragsgesetze. Berlin, Akademie-Verlag, 1948. 42 p. Ref. (Deutsche Akademie der Wissenschaften, Berlin. Vorträge und Schriften. 31) 57.07 M69E
- 43810 MOHR, E. C. J. World food production and the soil. (In Dutch.) Landbouwk. Tijdschr. 59: 434-442. Oct./Nov. 1947. 105.2 Or3
- 43811 MOLINA BOTERO, L. Abonos verdes. Soc. Antioqueña de Agr. B. Agr. 350/351: 3015-3017. Aug./Sept. 1948. 9.4 Sol
- 43812 MOORE, I. Good pastures are rare. Farmer & Stock-Breeder 58: 707. Mar. 22, 1949. 10 F228  
Fertilizers for grasslands.
- 43813 MORTENSON, F. N. Utah needs pasture missionaries. Utah Farmer 68(14): 7. Mar. 12, 1949. 6 D45  
Use of commercial fertilizers for grass.
- 43814 NATIONAL JOINT COMMITTEE ON FERTILIZER APPLICATION. Proceedings of the twenty-fourth annual meeting, 1948. Washington, 1948. 151 p. 57.9 N216
- 43815 NOZDRUNOVA, E. Local application of phosphate fertilizer. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Sborn. Studen. Nauch.-Issled. Rabot 1948: 89-96. 106 M852Sb
- 43816 OLRİK, B. Do the potash and the phosphoric acid formulas give correct information to the individual farmer? (In Danish.) Dansk Landbr. 68: 137-138. Mar. 17, 1949. 280.28 V91  
A discussion of above article by H. L. Jensen entitled: Do the phosphoric acid formulas give the correct information; in the Mar. 24, issue, p. 161.
- 43817 OLSEN-SEFFER, R. Efectos de los abonos. Agr. y Ganad. 24(7): 15-16, 18-19, 22-27. July 31, 1948. 8 Ag834
- 43818 OVERHOLSER, E. L. Nitrogen fertilization of the apple. Va. Fruit 37(4): 18, 20, 22-23. Apr. 1949. 81 V81B
- 43819 PAAUW, F. VAN DER. Phosphate fertilizing in farming. (In Dutch.) Netherlands. Min. van Landb. Viss. en Voedselvoorziening. Afd. Doc. Landbouwvoorlichting 1, 100 p. 1948. 12 N384
- 43820 PALMAROCCHI, V. A wheel that does not turn. (In Italian.) Agricoltore [Perugia] 6(2): 2. Jan. 30, 1949. 281.8 Ag822  
Winter nitrate application.
- 43821 PALMER, R. G. Taking the guesswork out of fruit soils. Amer. Fruit Grower 69(4): 12-13, 36-37. Apr. 1949. 80 G85
- 43822 PARKER, F. W. Future development of U.S.D.A. research program. Agr. Chem. 4(3): 28-30, 93. Mar. 1949. 381 Ag8  
Radioactive fertilizers.
- 43823 PEDRETTI, L. Die kalkdüngung nicht vergessent! Allgäuer Bauernbl. 17: 143. Mar. 18, 1949. 18 AL53
- 43824 PETERSON, V. H., JONES, H. E., and SMITH, F. W. Corn fertilizer studies in Kansas, 1948. Natl. Joint Com. Fert. Appl. Proc. 24: 47-51. 1948. 57.9 N216
- 43825 PHANEUF, A. S. Lime for soil improvement. Prof. Gard. 1: 19. Jan. 1949. 80 P945
- 43826 POWELL, L. B. Fertility farm. Veld Trust News 5(5): 10-12. Feb. 1949. 56.8 V54
- 43827 PRICE, M. Atomic energy and agriculture. A U. S. representative speaks out. Fert. Rev. 24(2): 3-4, 11. Mar./Apr. 1949. 57.8 F414
- 43828 PROCTER, C. Tomatoes in beds of John Innes compost. Grower [London] 31: 595. Mar. 26, 1949. 286.83 M34
- 43829 RAPALLO ABAD, J. Los fertilizantes en la vida de las plantas. Agr. 4: 227-228. Nov./Dec. 1948. 33.23 Ag3
- 43830 REBOUR, H. La profondeur d'ameublissement du sol dans les vergers. Rev. Hort. [Paris] 120: 346-347. Nov. 1948. 80 R32
- 43831 RIEUX-PEYROU. Contre l'appauvrissement des terres, utilisez les amendements calcaires. Unité Paysanne 4(179): 1, 4. Apr. 9, 1949. 14 Un3



- 43832 RIVEROS, J. E. Empobrecimiento de la materia orgánica de la tierra de los viñedos. Vinos, Viñas y Frutas 44: 360-363. Feb. 1949. 9 Ag89
- 43833 ROF CODINA, J. Los abonos de pescado. Cult. Mod. 30: 140-142. Apr. 1947. 15 C89
- 43834 ROY, P. O. Pas de sols inertes en pomiculture. B. des Agr. 45(4): 30, 64. Apr. 1949. 7 B872
- 43835 SALOM, J. El cansancio de las tierras. Balearic Isl. Diputación Prov. B. de Agr. 52: 5-6. Jan. 1949. 15 B19
- 43836 SCHEYS, G. Relation of soil and vegetation. (In Flemish.) Agricultura [Louvain] 47: 40-62. Jan. 1949. 13 R32  
Chiefly fruit.
- 43837 SCHOONNEVELDT, J. C. VAN. Optimum manuring experiment with young budded Hevea in the Pewaja experimental garden. (In Dutch.) Arch. v. de Rubbercult. 26, i. e. 16: 201-219. Nov. 1948. 66.18 Ea72  
English summary.
- 43838 SCHRADER, A. L. Work of the National Joint Committee on Fertilizer Application in relation to horticultural science. Natl. Joint Com. Fert. Appl. Proc. 24: 10-16. Ref. 1948. 57.9 N216
- 43839 SCHUCHARD, H. Die humusversorgung unserer böden. Landw. Wchnbl. f. Westfalen u. Lippe 106: 199. Mar. 12, 1949. 18 L2346
- 43840 SHEPHERD, J. B. Increasing production from dairy pastures. Agr. Leaders' Digest 30(3): 26-28. Mar. 1949. 275.28 Am3
- 43841 SHEWELL-COOPER, W. E. Plums need a heavy soil; type of land that produces large fruits of good quality. Field 193: 303. Mar. 12, 1949. 10 F45
- 43842 SHRIKHANDE, J. G. Usefulness of lime in agriculture. Indian Sugar 11: 188-191. Ref. Oct. 1948. 65.8 In25  
In soil improvement.
- 43843 SMITH, F. W., and SIMKINS, C. A. Wheat fertilizer studies in Kansas, 1947-1948. Natl. Joint Com. Fert. Appl. Proc. 24: 73-82. 1948. 57.9 N216
- 43844 SOMERSET, G. C. What a crop needs depends on the soil. Grower [London] 31: 594. Mar. 26, 1949. 286.83 M34  
Fertilizers.
- 43845 SPAFFORD, W. J. Value of agricultural lime for South Australian soils. So. Austral. Dept. Agr. J. 52: 236. Dec. 1948. 23 So84
- 43846 STANDER, A. H. Langebaan phosphate rock as fertilizer. (In Afrikaans.) So. African Indus. Chem. 3: 24-25. Feb. 1949. 385 So8
- 43847 STENUIT, D. Determination of the lime and fertilizer requirements of Belgian soil. (In Flemish.) Agricultura [Louvain] 47: 16-22. Jan. 1949. 13 R32
- 43848 STEPHENSON, R. E. How to manage orchard soils. Amer. Fruit Grower 69(4): 14, 34-35. Apr. 1949. 80 G85
- 43849 STORCK, G. Zur düngung der zuckerrüben. Landwirtschaftsblatt Weser-Ems 96: 184. Mar. 17, 1949. 18 L2345
- 43850 STRUYS, L. C. Fertilizing flower bulbs. II. (In Dutch.) Weekbl. v. Bloembollencult. 59: 281. Mar. 11, 1949. 80 W412
- 43851 SWANBACK, T. R. Plow-under and plow sole placement of tobacco fertilizer in Connecticut. Natl. Joint Com. Fert. Appl. Proc. 24: 141. 1948. 57.9 N216
- 43852 SWINGLE, C. F. Recommended fertilizers for apple and cherry trees in Door County. Wis. Hort. 39: 212-213. Apr. 1949. 80 W752
- 43853 Terman, G. L. Fertilizer needs of potatoes in New England. Crops & Soils 1(6): 17-20. Mar. 1949. 6 W55
- 43854 THERIOT, H. Using anhydrous ammonia in sugarcane. Sugar J. 11(11): 5, 7, 9. Apr. 1949. 65.8 Su391
- 43855 VANDECAVEYE, S. C., and others. Fertilizers for eastern Washington. Wash. State Col. Ext. B. 385, 8 p. Feb. 1949. 275.29 W27P  
H. E. Dregne, C. L. Vincent, L. R. Bryant, F. L. Overley, N. R. Benson, W. J. Clore, C. O. Stanberry, F. G. Viets, Jr., and W. A. Luce, joint authors.
- 43856 VIDAL MORA, J. M. La enfermedad que padecen nuestros suelos. Balearic Isl. Diputación Prov. B. de Agr. 52: 10-11. Jan. 1949. 15 B19  
Loss of humus.
- 43857 VILLIERS, O. D'H. DE. Notes on the rejuvenation of impoverished soils. Rev. Agr. de l'île Maurice 27: 159-162. Ref. July/Aug. 1948. 24 M44
- 43858 VINE, H. The soil resources for increased production. Farm Forest 9: 21-27. Jan./June 1948. 24 F226  
Nigeria.
- 43859 WALLACE, T. Manuring of fruit crops. Gt. Brit. Min. Agr. and Fisheries. Growmore B. 4, 12 p. 1948. 10 G79Gro
- 43860 WASSON, R. A. Better Louisiana corn. Better Crops with Plant Food 33(3): 15-20, 46-47. Mar. 1949. 6 B46
- 43861 WELCH, F. J. Fertilizer recommendations for Mississippi, 1949. Miss. Agr. Expt. Sta. C. 145, 12 p. Feb. 1949. 100 M69
- 43862 WILHELM, F. Versuche mit assimilan. Gartenbauwirtschaft [Wien] 1949(1): 6-7. Jan. 15, 1949. 80 G1936
- 43863 WINCKLER, K. Zur frage der stickstoffdüngung. Bad. Landw. Wchnbl. 116: 38. Jan. 22, 1949. 18 B142
- 43864 WOLTZ, W. G. Fertilizer phosphorus utilization by the tobacco plant as affected by placement. Natl. Joint Com. Fert. Appl. Proc. 24: 141-142. 1948. 57.9 N216
- 43865 WRIGHT, L. E., PELLETIER, J. R., and RILEY, P. O. Soil fertility studies. I. Sci. Agr. 29: 128-136. Mar. 1949. 7 Sci2
- 43866 ZANETS, A. Soil and improvement measures on the Plamía Collective Farm in Lopasnia District of Moscow Region. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Sborn. Studen. Nauch.-Issled. Rabot 1948: 78-83. 106 M852Sb  
Fertilizer application chiefly.

## Soil Tilth and Tillage

- 43867 ARMANDO, M. Modern tillage methods in the vineyards. (In Italian.) Agr. Tosc. 4: 53-56. Feb. 1949. 16 Ag8263
- 43868 DANIEL, E. J. Stubble-mulch tillage. Dak. Farmer 69(7): 12, 60. Apr. 2, 1949. 6 D14
- 43869 DONA DALLE ROSE, A. Removal of soil salt and spring plowing. (In Italian.) Gior. di Agr. 59: 93. Mar. 20, 1949. 16 It1G  
Italy.
- 43870 FELBER, E. Erhaltung der winterfeuchtigkeit bei der frühjahrsbestellung. Landwirtschaftsblatt Weser-Ems 96: 176-177. Mar. 17, 1949. Mar. 17, 1949. 18 L2345
- 43871 FRESE, H. Aufgaben und ziele der KTL-forschungsstelle für bodenbearbeitung. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 4: 17-31. 1948. 18 K96
- 43872 FRESE, H. Probleme der bodenbearbeitung. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 3: 33-43. 1948. 18 K96  
Discussion, p. 43.
- 43873 GUNSTON, J. A race against time. Young Farmer 17: 53-54. Mar./Apr. 1949. 10 Y82  
Adequate cultivation.
- 43874 IL'MENEV, S. I. Cultivation of summer fallow on Podzolic soils. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(7): 9-13. 1948. 20 Ak1
- 43875 KLOTH, W. Leichtbau bei schleppern und arbeitsgeräten. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 3: 120-125. 1948. 18 K96
- 43876 KLOTH, W. Was kann die technik zur verbesserung der bodenbearbeitung tun? Kuratorium f. Tech. in der Landw. Ber. über Landtech. 4: 87-91. 1948. 18 K96
- 43877 KONSTANTINOV, N. M. Effect of mulching on the carbon dioxide content in the air above the soil. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Polev. Opytn. Stanf's. Iz Rezul't. Rabot 1945/46: 149-154. 1948. 64.9 M85  
Experiments with sugar beets.
- 43878 MEISNER, F. Erhältet die winterfeuchtigkeit! Bad. Landw. Wchnbl. 116: 127-128. Mar. 12, 1949. 18 B142
- 43879 MOLLER A., E. Progresos en las labores de la preparación de los suelos. Agr. Austral 14: 7534-7536. Dec. 1948. 9.3 Ag842



- 43880 REICHART, M. A. L. El cultivo del suelo: las labranzas. Bolsa de Com., Rosario. Rev. 37(890): 13-14, 17, 19-20. Feb. 15, 1949. 287 R71
- 43881 RODALE, J. I. Stone mulching in the garden. Emmaus, Pa., Rodale Press, 1949. 164 p. 57.1 R61
- 43882 RUDE. Zur frage der bodenbearbeitung auf wiesen und weiden im frühjahr. Württemb. Wchnbl. f. Landw. 116: 191. Apr. 2, 1949. 18 W96
- 43883 SAUERLANDT, W. Über die bodengare. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 4: 109-129. 1948. 18 K96
- 43884 SAVAZZINI, G. Tillage and nitrate fertilizers for beets. (In Italian.) Gaz. Agr. [Parma] 2(17): 2. Apr. 24, 1948. 16 G255
- 43885 SCHEFFER, F. Wechselwirkung von bodenbearbeitung und nährstoffhaushalt. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 4: 40-59. 1948. 18 K96
- 43886 SCHMID, G. Rigolen mit dem pflug. Schweiz. Z. f. Obst u. Weinbau 58: 95-98. Feb. 26, 1949. 80 Sch9
- 43887 TATE, G. Tillage and fertilizer practices in the Worley area. (Abs.) Northwest Sci. 22: 36. Feb. 1948. 470 N81
- 43888 TORNAU, O. Die beeinflussung des bodens als pflanzenstandort durch bearbeitungsmassnahmen. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 4: 32-39. 1948. 18 K96
- 43889 VOGEL, F. Die bearbeitung des gartenlandes im herbst. Süddeut. Erwerbsgärt. 2: 102-104, 121-122. Nov. 15, Dec. 15, 1948. 80 Su2
- 43890 WRIGHT, S. J. Does deep tillage justify the extra cost? Farming [Norwich] 3: 49-51. Feb. 1949. 10 F2236

#### Drainage, Irrigation, Water Supply, and Flood Control

- 43891 ADAMS, J. C. Irrigated pastures for Nebraska. Irrig. Farmer 6(11): 3, 9. Mar. 3, 1949. 55.8 Ir78
- 43892 ALANNO, A. D', and PUPPINI, G. Hydraulic drainage associations. (In Italian.) Genio Rur. 12: 69-72. Jan./Feb. 1949. 281.8 R522
- Italy.
- 43893 BELLINCIONI, G. The problem of the conservation and regulation of Lake Chiusi and Lake Montepulciano in relation to the achievements in reclamation and irrigation in Valdichiana. (In Italian.) Georgofili [Firenze] (ser. 6) 12: 90-110. Jan./June 1948. 507 F51
- 43894 BERG, E. V. Floods and flood control in the State of Washington. Pacific Northwest Indus. 8: 108-109. Mar. 1949. 280.8 N812
- 43895 BLOCC VAN KUFFELER, V. J. P. DE. The Zuyderzee scheme after the liberation. (In Dutch.) Econ.-Statis. Ber. 34: 209-212. Mar. 16, 1949. 280.8 Ec722
- Summary in English.
- 43896 BOKE, R. L. Water resources for irrigation in California. Pacific Northwest Indus. 8: 110-115. Mar. 1949. 280.8 N812
- 43897 BOWDEN, N. W. General problems of design and operation. Amer. Soc. Civil Engin. Proc. 75: 301-315. Mar. 1949. 290.9 Am3P
- Reservoirs for flood control and irrigation.
- 43898 BRETON, E. Les irrigations dans l'établissement français de Pondichéry. Agron. Trop. 4: 50-69. Jan./Feb. 1949. 26 Ag86
- 43899 BUECHNER, E. R. Irrigation-sprinkler systems versus flooding. Power Farming Austral. 58(2): 41, 43. Feb. 1949. 58.8 P87
- 43900 CALIFORNIA. DEPT. OF PUBLIC WORKS. Views and recommendations of State of California on substitute proposed report of Secretary of the Interior entitled Comprehensive Plan for Water Resources Development, Central Valley Basin, California. Sacramento, 1948. 51 p. 292 C1253
- 43901 CAMPBELL, J. A. Experiment shows value of irrigation. Miss. Farm Res. [Miss. Sta.] 12(3): 1, 8. Mar. 1949. 190 M69M1
- 43902 COCHRAN, A. L. Their use for flood control. Amer. Soc. Civil Engin. Proc. 75: 316-322. Mar. 1949. 290.9 Am3P
- Reservoirs.
- 43903 CODE, W. E., and HAMMAN, A. J. When to use sprinkler irrigation in Colorado. Colo. Agr. Col. Ext. B. 405-A, 19 p. July 1949, i. e. 1948. 275.29 C71E
- 43904 CRAM, J. S. After the flood comes drought. Forest & Outdoors 45(4): 6-7, 24-25, 27. Apr. 1949. 99.8 C16
- 43905 CUTFORTH, B. C. Spring irrigation in the Blackfoot District. U. & I. Cult. 9: 29. Mar. 1949. 66.8 U12
- Sugar beets in Idaho.
- 43906 DEBLER, E. B. Development of policy by the Bureau of Reclamation. Amer. Soc. Civil Engin. Proc. 75: 295-300. Mar. 1949. 290.9 Am3P
- 43907 DUFFY, W. J., JR. Preparing California lands for irrigation. Calif. Farmer, South. Ed. 190: 295. Mar. 26, 1949. 6 C126A
- 43908 DUSENBERRY, H. L. Which method of irrigation? Mont. Farmer-Stockman 36(14): 42. Mar. 15, 1949. 6 M764
- 43909 ERMERT, O. Entwässerungsanlagen nicht vernachlässigen! Landw. Wchnbl. f. Westfalen u. Lippe 106: 199-200. Mar. 12, 1949. 18 L2346
- 43910 FLOOD damage. Fed. Reserve Bank Kansas City. Monthly Rev. 34(2): 1-4. Feb. 28, 1949. 284.8 F31K
- 43911 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Water laws in the United States of America relating to water rights, irrigation, conservation, drainage, and flood and overflow protection for agricultural lands; a selected reference list of publications with some reproductions, basic excerpts, and lists of contents of special interest, by M. B. Williams. Washington, 1948. 168 p. 241 F732W
- 43912 FRY, H. S. The Little Empire. Country Guide 68(3): 12, 59. Mar. 1949. 7 G76
- Irrigation in Alberta.
- 43913 GREEN, S. Multiple-purpose development of the Columbia River system with particular reference to flood control, navigation, and power. Pacific Northwest Indus. 8: 100-103. Mar. 1949. 280.8 N812
- 43914 HANSEN, H. Artificial watering. (In Danish.) Dansk Landbr. 68: 116-117. Mar. 3, 1949. 280.28 V91
- Equipment and cost.
- 43915 HUBERTY, M. R. Efficiency of irrigation in relation to fruit sizes. Calif. Citrog. 34: 261-264. Apr. 1949. 80 C125
- 43916 JANSMA, K. Lely, de bedwinger der Zuiderzee [Lely, the conqueror of the Zuider Zee]. Amsterdam, Paris, 1948. 349 p. 120 L532
- 43917 JOHNSON, B. Heart Butte, irrigation pilot plant for North Dakota. Reclam. Era 35: 59-61. Mar. 1949. 156.84 R24
- 43918 JONAS, H. E. "The berries"—sold out; what irrigation with a two horsepower electric pump did for a five acre tract. Elect. on the Farm Mag. 22(4): 7-9. Apr. 1949. 335.8 EL27
- 43919 JONES, H. C. American River water for Santa Clara Valley. Pear Growers League Ann. 1949: 29, 31. 286.3939 P31
- 43920 JONES, R. E. Sprinklers boost grape yield, reduce erosion. Better Fruit 43(10): 8, 25-28. Apr. 1949. 80 B46
- 43921 LESTER, J. With sprinkler irrigation it takes only 1/3 the water. Mont. Farmer-Stockman 36(14): 43, 51. Mar. 15, 1949. 6 M764
- 43922 LEWIS, N. N. Malaria, irrigation, and soil erosion in central Syria. Geog. Rev. 39: 278-290. Apr. 1949. 500 Am35G
- 43923 LUTHER, J. M. Fund sought for '49 flood control works. Calif. Water News 1: 1, 4. Jan. 15, 1949. 292.8 C12
- 43924 MARKSTEIN, D. Irrigating a wet State [Louisiana]. Prog. Farmer, Miss.-Ark.-La. Ed. 64(4): 19. Apr. 1949. 6 So81
- 43925 MECH, S. J. Infiltration and its relation to soil and water conservation under irrigation. (Abs.) Northwest Sci. 22: 38. Feb. 1948. 470 N81
- 43926 MENDES, U. D. Economic utilization of the Rio Tietê. São Paulo. Dept. Estad. de Estatfs. B. 4: 31-80. 1947, pub. 1948. 255.3 Sa653
- Includes irrigation.
- 43927 MICKELSEN, E. Earlier irrigation needed in south central Utah district. U. & I. Cult. 9: 27. Mar. 1949. 66.8 U12
- Sugar beets.



- 43928 MILLER, D. G. Laboratory tests drain tile. Minn. Farm and Home Sci. [Minn. Sta.] 6(2): 6-7. Feb. 1949. 100 M668
- 43929 MOODY, A. B. Conserved water. So. Austral. Dept. Agr. J. 52: 288-293. Jan. 1949. 23 So84
- 43930 MORI, S., and SHOJI, H. On diggers for under-drain. (In Japanese.) Nogiyodoboku-Kenkyu 16: 9-15. Ref. Oct. 1948. 290.8 N68
- 43931 MÜKSCH, L. Entwässerung und kulturpflanze. Bodenkultur 2: 71-74. 1948. 19 B635
- 43932 MUÑOZ ZÚNIGA, F. Con motivo de las inundaciones de las vegas murcianas. Ager 4: 225-226. Nov./Dec. 1948. 33.23 Ag3
- 43933 NAMEKATA, B. On effect of artesian well for rice-field at Seaside. (In Japanese.) Nogiyodoboku-Kenkyu 16: 46-51. Oct. 1948. 290.8 N68
- 43934 NEJGEBAUER, V. Soils of Southern Bachka in relation to irrigation. (In Serbian.) Yugoslavia. Min. Poljoprivrede. Arh. za Poljoprivredne Nauka i Teh. 3(5): 3-23. 1948. 21.5 Y9  
Russian summary.  
Yugoslavia.
- 43935 NELSON, W. R. Application of general policies when used for irrigation. Amer. Soc. Civil Engin. Proc. 75: 331-341. Mar. 1949. 290.9 Am3P  
Reservoirs.
- 43936 NEW SOUTH WALES. COUNCIL FOR SCIENTIFIC RESEARCH. IRRIGATION RESEARCH STATION. Annual report, 1947-48. Griffith, 1948. 6 p. 55.9 G87A
- 43937 PEIKERT, F. W., and TRIBBLE, R. T. The effect of irrigation on the humidity in orchards. Mich. Agr. Expt. Sta. Q. B. 31: 266-269. Feb. 1949. 100 M58S
- 43938 PEIKERT, F. W. Irrigation—a profitable practice. New England Homestead 122(6): 10-11. Mar. 26, 1949. 6 N442
- 43939 QUEENSLAND. BUR. OF INVESTIGATION. Fourth annual report, 1947. 1948. 15 p. 282.1992 Q3  
Irrigation farming.
- 43940 RAMADORO, A. Reclamation works. (In Italian.) Ital. Agr. 86: 162-166. Feb./Mar. 1949. 16 It1G
- 43941 ROHWER, C., and STOUT, O. V. P. Seepage losses from irrigation channels. Colo. Agr. Expt. Sta. Tech. B. 38, 100 p. Ref. Mar. 1948. 100 C71S
- 43942 SCHLEUSENER, P. E., PEIKERT, F. W., and CAROLUS, R. L. Results of irrigation on vegetable crops. Mich. Agr. Expt. Sta. Q. B. 31: 343-350. Feb. 1949. 100 M58S
- 43943 SHOJI, H., and MORISHIMA, S. On the past and present under-drain at Kyushu. (In Japanese.) Nogiyodoboku-Kenkyu 16: 2-9. Ref. Oct. 1948. 290.8 N68
- 43944 SIMONNEAU, P. Les arbres fruitiers à feuilles caduques dans les plaines irriguées d'Oranie. Colon Franç. de Tunisie 59(2089): 1-2, 4. Mar. 5, 1949. 24 C712
- 43945 TAKADA, Y., and TANABE, K. The fundamental study of irrigation water. (In Japanese.) Nogiyodoboku-Kenkyu 16: 41-45. Oct. 1948. 290.8 N68
- 43946 TAKADA, Y. A study of high velocity flow in open channels. (In Japanese.) Nogiyodoboku-Kenkyu 16: 15-29. Oct. 1948. 290.8 N68
- 43947 TANABE, K., and IGO, K. Irrigation experiments with sugar-cane in Miyazaki Prefecture 1947. (In Japanese.) Nogiyodoboku-Kenkyu 16: 35-41. Oct. 1948. 290.8 N68
- 43948 THERON, J. J. Underground waters. (In Afrikaans.) Landbouweekblad 30(1548): 41-42. Mar. 16, 1949. 24 L232
- 43949 TODD, C. T. First steps in reclaiming African desert land. Crown Colon. 19(208): 141. Mar. 1949. 280.8 C88
- 43950 TORBERT, E. N. The reclamation program—the key to agricultural expansion. Pacific Northwest Indus. 8: 104-108. Mar. 1949. 280.8 N812
- 43951 U. S. BUR. OF RECLAMATION. The reclamation program, 1948-54. Washington, 1948. 24 p. 156.85 R242  
Irrigation and reclamation.
- 43952 U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC LANDS. The American River Basin Project. Hearings, 81st Cong., 1st sess. on H. R. 93, H. R. 165, H. R. 310, H. R. 1223, H. R. 1336, and H. R. 1738, bills to authorize the American River Basin Development, California, for irrigation and reclamation, and for other purposes, Mar. 1 and 2, 1949. Washington, 1949. 67 p.
- 43953 U. S. GEOLOGICAL SURVEY. Floods of May-June 1948 in Columbia River Basin. With a section on magnitude and frequency of floods. U. S. Geol. Survey. Water-Supply Paper 1080, 476 p. 1949. 407 G29W
- 43954 U. S. GEOLOGICAL SURVEY. Water levels and artesian pressure in observation wells in the United States in 1945. 5. Northwestern states. U. S. Geol. Survey. Water-Supply Paper 1027, 244 p. 1948. 407 G29W
- 43955 U. S. SOIL CONSERVATION SERV. Summary group drainage work in Soil Conservation Districts with SCS assistance, calendar year 1948 and to date totals. Washington, 1949. 13 p. 1.96 Op2Sug
- 43956 U. S. SOIL CONSERVATION SERV. Summary group irrigation work in Soil Conservation Districts with SCS assistance, calendar year 1948, and to date totals. Washington, 1948. 9 p. 1.96 Ad6Sum
- 43957 VELATTA, M. "Prefabricated" equipment for reclamation and irrigation projects. (In Italian.) Genio Rur. 12: 38-51. Jan./Feb. 1949. 281.8 R522
- 43958 VISOCCHI, V. Aspects of reclamation finance: private projects. (In Italian.) Ital. Agr. 86: 167-175. Feb./Mar. 1949. 16 It1G
- 43959 WALTERS, D. V. Controlled irrigation: formulae for calculating waterings within limits of flow, time and acreage. Citrus News 25: 13. Jan. 27, 1949. 80 C494
- 43960 WOOD, I. D. Practical methods of water application. Agr. Engin. 30: 193-195. Apr. 1949. 58.8 Ag3
- 43961 WYOMING. STATE ENGINEER. Twenty-ninth biennial report, 1947-1948. 1948. 15 p. 290.9 W99  
Includes irrigation and reclamation. Supplement "B" 24 p., is entitled: Surface waters of Wyoming.

#### Erosion and Erosion Control

- 43962 BARROS, W. D. DE. Soil conservation in São Paulo. (In Portuguese.) Campo [Rio de Janeiro] 20: 23-24. Jan./Feb. 1949. 9.2 C15
- 43963 BEALL, F. How come the gullies? Farmer-Stockman 62(4): 3. Apr. 1949. 6 Ok45
- 43964 BEICHLER, W. K. Soil conservation; forest conservation. Tarheel Banker 27(10): 5-6, 28, 30. Apr. 1949. 284.8 T17
- 43965 BENNETT, H. H. The economy of soil conservation. Washington? U. S. Soil Conserv. Serv., 1949. 8 p. 1.96 Ad62
- 43966 BODE, L. L'erosion et le déséquilibre du sol agricole. Colon Franç. de Tunisie 58(2070): 1, 2. Oct. 23, 1948. 24 C712
- 43967 BRANDYWINE VALLEY ASSOCIATION, INC. The Brandywine Valley [Delaware and Pennsylvania]. Wilmington? Del., 1948. 18 p. 279.073 B73  
Brings out need for erosion control.
- 43968 BUIE, T. S. New styles in soil saving. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 64(3): 19, 26. Mar. 1949. 6 P945K
- 43969 CARREKER, J. R., and BARNETT, A. P. Runoff and soil loss measurements by cropping periods. Agr. Engin. 30: 173-176. Ref. Apr. 1949. 58.8 Ag3
- 43970 CHEPIL, W. S. Wind erosion control with shelterbelts in north China. Agron. J. 41: 127-129. Mar. 1949. 4 Am34P
- 43971 CRITCHFIELD, H. J. Climatic aspects of soil erosion in the Palouse region [Washington and Idaho]. Amer. Met. Soc. B. 30: 106. Mar. 1949. 340.8 Am32
- 43972 CURRAN, C. H. Down to earth. Nat. Hist. 57: 403-407, 429. Nov. 1948. 500 N483J  
Includes soil conservation.
- 43973 DELISLE, R. Forêt et conservation des sols; la forêt doit être mise à contribution contre l'érosion accélérée. Terre de Chez Nous 21(6A): 28, 19. Apr. 6, 1949. 7 T27
- 43974 DE LONG, G. The dairyman and soil conservation. West. Farm Leader 14: 102-103. Apr. 1, 1949. 280.28 W52



- 43975 DUTT, A. K. Maintenance of soil productivity—the key to soil conservation in India. Poona Agr. Col. Mag. 39: 32-44. Nov. 1948. 22 P79
- 43976 DYKES, J. C. The role of the contractor in soil conservation work. Washington? 1949. 2 p. 1.96 Ad6Dy
- 43977 ELDER, W. R. Try kudzu for blow sand—if you have the rainfall. Farm & Ranch 68(4): 40. Apr. 1949. 6 T31
- 43978 EMERSON, A. W. Range ripping means more grass. West. Livestock J. 27(22): 26-27, 52-55. Mar. 15, 1949. 6 F2278  
Contour furrows.
- 43979 FERGUSON, E. E. Nation-wide erosion control: soil conservation districts and the power of land-use regulation. Iowa Law Rev. 34: 165-187. Jan. 1949. L9 Io9
- 43980 FOX, L. C. The Hydro rain. South. Agr. 78(3): 22. Mar. 1949. 6 So83A  
Soil conservation in Oklahoma.
- 43981 GLEASON, C. H. How to sow mustard in burned watersheds of southern California. U. S. Forest Serv. Calif. Forest and Range Expt. Sta. Forest Res. Note 37, rev., 32 p. Sept. 1948. 1.9 F7626R  
Soil erosion and flood control.
- 43982 GRANGE, L. I., and GIBBS, H. S. Soil erosion in New Zealand. I. Southern half North Island. New Zeal. Dept. Sci. and Indus. Res. B. 95, 28 p. 1948? 330.9 N48B
- 43983 GUSSAK, B. V. Some observations, with the aid of microphotography, on the erosion of soils in the top soil. (In Russian.) Pochvovedenie 1948: 453-457. July 1948. 57.8 P34
- 43984 HALL, G. E. Scars on our landscape. Canad. Countryman 38(6): 21-25. Mar. 19, 1949. 7 C833  
Soil erosion.
- 43985 HEDGE, A. M. Soil conservation puts cash in the Treasury. Soil Conserv. 14: 195-196. Apr. 1949. 1.6 So3S
- 43986 HUFF, A. N. The hydraulic design of rectangular spillways. U. S. Soil Conserv. Serv. SCS-TP-71, slightly rev., 67 p. Nov. 1948. 1.96 Ad6Tp  
Soil erosion control.
- 43987 JACQUOT, H. D. Stabilization of inland sand dunes in the Pacific Northwest. (Abs.) Northwest Sci. 22: 35. Feb. 1948. 470 N81
- 43988 KARSTENS, G. A., and COLE, R. O. Terracing for erosion control in Indiana. Purdue U. Agr. Ext. B. 288, rev., 15 p. 1948? 275.29 In2E
- 43989 KINSEY, C. The astounding picture of soil erosion. Amer. Hampshire Herdsman 24(2): 60, 62. Jan. 1949. 46.8 Am33
- 43990 LAMY, D. L. Some effects of summer storms at Wagga Soil Conservation Research Station, 1947-48. N. S. Wales. Soil Conserv. J. 5: 39-43. Jan. 1949. 56.9 N472
- 43991 MCCONKEY, O. M. Agriculture and soil erosion in China; the Old World offers a warning to the New World to Conserve our forests and soil. Farmer's Advocate & Home Mag. 84: 178-179. Mar. 10, 1949. 7 F22
- 43992 MCNEW, E. Jesse James was dangerous outlaw, but soil erosion is still the all-time robber. Purdue Agr. 40(6): 4, 16. Mar. 1949. 6 P97  
Control with stubble-mulch tillage.
- 43993 MARYLAND SOIL CONSERVATION COMMITTEE. Report. College Park, 1948. 24 p. 56.9 M365
- 43994 MEZERIK, A. G. Wasteland in the making. Nation 168: 389-390. Apr. 2, 1949. 280.8 N215  
Erosion in the Rocky Mountain States.
- 43995 MICHIGAN SOIL CONSERVATION COMMITTEE. Annual report, 1947/48; Top soil and its conservation. Lansing? 1948. 16 p. 56.9 M582
- 43996 MOHAGEN, V. C. Training for careers. Soil Conserv. 14: 200-201. Apr. 1949. 1.6 So3S  
In soil conservation.
- 43997 MORLAND, R. T. Preliminary investigations in Hume Catchment Area. N. S. Wales. Soil Conserv. J. 5: 44-54. Jan. 1949. 56.9 N472
- 43998 MURRAY, W. G., HEADY, E. O., and TIMMONS, J. F. Economic aspects of soil conservation problems. J. Soil & Water Conserv. 4: 17-20. Jan.
- 43999 NUNEZ, A. La tierra, su conservación. Uruguay. Min. de Ganad. y Agr. B. Inform. 6(257): 3. Feb. 10, 1949. 9.9 G15B
- 44000 OUELLETTE, G. J. Temps de concentration vs érosion par l'eau. Agriculture [Montreal] 5: 327-335. Ref. Dec. 1948. 7 Ag82
- 44001 PERRY, A. Conservation. Calif. Gard. 40: 5. Spring 1949. 80 C127  
Soil conservation.
- 44002 RAMOS LARA, M. La erosión de nuestras tierras destruye nuestra principal riqueza. Café de El Salvador 30: 1169-1173. Jan. 1949. 68.28 C112
- 44003 RECHENTHIN, C. A. View from a flood-side seat. Farm & Ranch 68(4): 8, 10. Apr. 1949. 6 T31  
Grass cover in soil erosion control.
- 44004 RHYNE, C. L., and LORY, E. E. Conservation of natural resources. Berkeley, Calif., Merrill, 1948. 48 p. (Text Units Social Stud.) 279.12 R34  
Includes soil and forest conservation.
- 44005 RICKER, P. L. Eastern erosion control news. Wild Flower 25: 13-15. Jan. 1949. 451 W642  
Control by planting.
- 44006 ROARK, C. L. Contour farming in the [Mississippi] Delta. Prog. Farmer, Miss.-Ark.-La. Ed. 64 (3): 128. Mar. 1949. 6 So81
- 44007 RUSSELL, SIR E. J. Guard against soil erosion. Farmer & Stock-Breeder 63: 519. Mar. 1, 1949. 10 F228
- 44008 SANTOS, E. Conservacion de suelos, o muerte. Suelo Tico 1: 357-358. Dec. 1948. 8 Su2  
Also in Agrario 14(405): 4, 12. Jan. 1949. 9.3 Ag85
- 44009 SAUER, E. L. Dividends from conservation farming. J. Soil & Water Conserv. 4: 34-38. Jan. 1949. 56.8 J822
- 44010 SINCLAIR, J. G. Is there enough for everybody? Tex. Acad. Sci. Conserv. Council. Monog. 2: 11-23. Jan. 1949. 279.9 T312  
Need for conservation of soil and other resources.
- 44011 SKINNER, A. F. Field crops, land utilisation and conservation. Queensland Prod. 30(29): 3, 18-19. Jan. 12, 1949. 23 Q35  
Soil conservation in Australia.
- 44012 STEEN, M. O. The natural law of all good land. Co-op Grain Q. 7(1): 57-58. Spring 1949. 280.28 C7898  
Soil conservation.
- 44013 STEENBERG, F. Wind erosion in Denmark. Dan. Outlook 1949: 22-27. Feb. 1949. 280.8 D22
- 44014 TAYLOR, T. P. Control of gully erosion, holding dams and diversions. N. S. Wales. Soil Conserv. J. 5: 15-23. Jan. 1949. 56.9 N472
- 44015 THOMAS, R. G. Eighth annual [Soil Drift Control] Competition. Victoria. Dept. Agr. J. 47: 1-11. Jan. 1949. 23 V66J
- 44016 UHLAND, R. E. Crop yields lowered by erosion. U. S. Soil Conserv. Serv. SCS-TP-75, 27 p. Feb. 1949. 1.96 Ad6Tp
- 44017 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Soil conservation, by A. V. MacCormack and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11
- 44018 U. S. SOIL CONSERVATION SERV. Abstracts of recent published material on soil and water conservation, by J. H. Stallings. Washington, 1949. 82 p. 1.96 Ad6Ab
- 44019 U. S. SOIL CONSERVATION SERV. Commercial motion picture films. Rev. Upper Darby, 1949. 4 p. 1.9601 C73  
Soil and water conservation.
- 44020 U. S. SOIL CONSERVATION SERV. Soil Conservation districts; status of organization, calendar year 1948. Washington? 1949. 2 p. 1.96 A26Sod
- 44021 VAJDA, A. DE. Land and water problems in the Anglo-Egyptian Sudan. Soil Conserv. 14: 207-210. Apr. 1949. 1.6 So3S
- 44022 WALKER, B. S. Soil conservation in the North-West: some observations at Gunnedah Research Station. N. S. Wales. Soil Conserv. J. 5: 24-29. Jan. 1949. 56.9 N472
- 44023 WALT, W. J. V. D. Soil erosion in the Small-Karoo. (In Afrikaans.) Landbouweekblad 30(1546): 47-48. Mar. 2, 1949. 24 L232



44024 WHEELER, R. A. Flood control and conservation. *J. Soil & Water Conserv.* 4: 31-33. Jan. 1949. 56.8 J822

44025 WILLIAMS, D. A. The contribution of the Soil Conservation Service to the conservation and development of the Pacific Northwest. Portland, Oreg., U. S. Soil Conserv. Serv., 1948. 5 p. 1.9609 W67A  
Soil and water conservation.

#### Sanitation

44026 BAKER, K. F. Purposes and methods of pasteurizing soil. *Farm Electr.* 3(2): 1-4. Mar./Apr. 1949. 335.8 F224

44027 DUNLOP, S. G. Bacterial studies of soils and washings of irrigated fruits and vegetables. *J. Milk & Food Technol.* 12: 111-112. Mar./Apr. 1949. 44.8 J824

44028 FALK, L. L. Bacterial contamination of tomatoes grown in polluted soil. *J. Milk & Food Technol.* 12: 110-111. Mar./Apr. 1949. 44.8 J824

44029 HEWITT, G. A soil sterilizer. *Prof. Gard.* 1: 81. Mar. 1949. 80 P945

44030 JENSEN, A. Soil disinfection in smaller nurseries. (In Danish.) *Gart.-Tid.* 65: 59. Feb. 9, 1949. 80 G192

44031 MCCLELLAN, W. D., CHRISTIE, J. R., and HORN, N. L. Efficacy of soil fumigants as affected by soil temperature and moisture. *Phytopathology* 39: 272-283. Ref. Apr. 1949. 464.8 P56

44032 PARTIAL sterilization. *Soils and Fert.* 11: 357-360. Ref. 1948. 241 Im75f

#### MATERIALS FOR SOIL IMPROVEMENT

44033 BEAR, F. E. The test of time. *Chemurg. Digest* 8(4): 4-6, 26. Apr. 1949. 381 N213Na  
Fertilizers versus manures.

44034 BLANES, F. El comercio y las etiquetas de los abonos. Balearic Isl. Diputación Prov. B. de Agr. 52: 6-7. Jan. 1949. 15 B19  
Spain.

44035 BLIN, H. Comment fabriquer du fumier sans animaux. *Acclimatation* 76: 55. Mar. 5, 1949. 14 Ac2

44036 COLEMAN, F. B. Fertiliser facts for farmers. *Queensland Prod.* 30(29): 9-11. Jan. 12, 1949. 23 Q35

Kinds distributed in Queensland and regulations under the Fertilisers Act.

44037 JEPSON, S. Father Neptune's fertiliser: Jersey's extensive use of seaweed. *Fert., Feed Stuffs & Farm Supplies J.* 35: 197. Apr. 6, 1949. 57.8 F413

44038 OLESEN, J. Kieselguhr as fertilizer? (In Danish.) *Dansk Landbr.* 68: 105-106. Feb. 24, 1949. 280.28 V91

#### Primary Materials

44039 BAEYENS, J. Aspects nouveaux de la chimie agricole des engrais azotés et phosphatés. *Agricultura [Louvain]* 47: 72-92. Jan. 1949. 13 R32

44040 GAMARRA DULANTO, L. Qué fertilizantes sintéticos debería fabricarse en el país. *Co. Admin. del Guano, Peru. B.* 24: 139-152. Aug. 1948. 57.9 C73B

44041 HAAG, H. Plant foods to suit soils' tastes. *News Farmer Coops.* 15(12): 3, 14. Mar. 1949. 166.2 N47

Plant food program of the Missouri Farmers Association.

44042 HENDRICKS, S. B., and DEAN, L. A. Radioactive tracers furnish new help in testing fertilizers. *Crops & Soils* 1(6): 14-16. Mar. 1949. 6 W55

44043 LYNCH, W. E. Fertilizer; its sources, its chemical make-up, and its manufacture. *Farm Q.* 4: 30-34, 136-140. Spring 1949. 6 F22995

44044 OVERSETH, O. E. CFA proposes broad research program. *Com. Fert.* 78(4): 26, 28. Apr. 1949. 57.8 C73

California Fertilizer Association.

44045 ROBB, M. H. Mainly about artificial fertilizers. *Scot. Farmer* 57: 468-469. Feb. 12, 1949. 10 Sco8

#### Secondary and Minor Element Materials

44046 BELL, M. R. Micro-nutrient elements: what they are, what they mean to your crop. *Calif. Fruit & Grape Grower* 3(2): 14-16. Feb. 1949. 95.8 G762

44047 HUTCHESON, T. B. What about "minor elements" and lime? *Prog. Farmer, Car.-Va.* Ed. 64(3): 26, 129. Mar. 1949. 6 P945

#### Mixed Fertilizers and Fertilizer Technology

44048 BOISCHOT, P. Détermination des formules de fumure d'après les bulletins d'analyses. II. *B. des Engrais* 21: 21-22. Feb. 1949. 57.8 B87

44049 FOURGEAUD, J. Les engrais de mélange. *Défense Agr. de la Beauce et du Perche* 46: 19. (Concl.) Jan. 20, 1949. 14 D36

44050 LENGLEN, M. Les fraudes en matières d'engrais et d'amendements. *Prog. Agr. et Vitic.* 1949: 114-117. Feb. 20/27, 1949. 14 P94

44051 MARTENS, P. H. Notes résumées sur l'évolution de l'analyse des engrais. *Ann. de Gembloux* 55: 36-56. (To be cont.) First Quart. 1949. 13 G28

#### Fertilizer Statistics

44052 FERTILISER MANUFACTURERS' ASSOCIATION LIMITED. COSTING COMMITTEE. Uniform cost accounting for the fertiliser industry. London, 1948. 156 p. 284 F41

44053 GHETTI, G. Consumption of fertilizer at the present time. (In Italian.) *Campagnolo* 1949: 2-3. Jan. 1949. 16 C15

44054 JACOB, K. D., and CUMMINGS, R. W. Fertilizer in Bizonal Germany. *Amer. Fert.* 110(7): 7-10, 28. Apr. 2, 1949. 57.8 Am3

44055 JACOB, K. D., and CUMMINGS, R. W. The fertilizer situation in Bizonal Germany; report to the Food Administrator for the Occupied Areas, Department of the Army. n. p., 1948. 67 p. 57.2 J152

44056 JEWELL, W. R. Fertilizers for 1949; registered brands and unit values. *Victoria. Dept. Agr. J.* 47: 42-47. Jan. 1949. 23 V66J

44057 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. FEED AND FERTILIZER DEPT. Analyses of official fertilizer samples. *Ky. Agr. Expt. Sta. Regulat.* B. 69, 15 p. Dec. 1948. 100 K41

44058 KESSLER, L. Rentabilität von handelsdüngern. *Allgäuer Bauernbl.* 16: 320-321. Dec. 10, 1948. 18 AL53

44059 KLINE, A. B. Fertilizers and the future. *Fert. Rev.* 24(2): 7. Mar./Apr. 1949. 57.8 F414

44060 LE BOT, M. Le double problème des fumures minérales. *Anjou Agr.* 3(115): 1. Mar. 1, 1949. 14 An5

44061 MINNESOTA. DEPT. OF AGRICULTURE, DAIRY AND FOOD. Fertilizer analyses and registrations, 1948. St. Paul, 1948. 72 p. 57.9 M66

44062 MISSISSIPPI. DEPT. OF AGRICULTURE. Commercial fertilizers and fertilizer materials, 1948. State College, 1948. 12 p. 57.9 M69

44063 NEW MEXICO. FEED AND FERTILIZER CONTROL OFFICE. Nineteenth annual report, year ending December 31, 1948: commercial fertilizers, by R. W. Ludwick, and L. T. Elliott. 1949. 12 p. 57.9 N46

44064 PUENTE POCH, G. DE LA. Actualmente se importa un promedio de 226.000 toneladas al año menos de fosfatos de cal que antes de 1936. *B. Sind. de Estadfs.* 3(12): 16-23. Oct./Dec. 1948. 263 Es8B  
Spain.

44065 SANCHEZ BUEDO, E. El suministro de fertilizantes en la actual campaña. *Agricultura [Madrid]* 18: 63-66. Feb. 1948. 15 Ag84

44066 SAUCHELLI, V. The fertilizer industry of Maryland in cooperation with the State's agricultural agencies. *Md. Farmer* 33(3): 15, 21, 30. Mar. 1949. 6 M362

44067 SCARSETH, G. D. Fertilizers, food, fun, freedom and the future. *Plant Food Facts* 10(10): 32-34. Nov./Dec. 1948. 57.8 P693

44068 STRUNZ, H. Ist kunstdünger zu billig? *Gartenbauwirtschaft [Wien]* 1949(1): 4. Jan. 15, 1949. 80 G1936

44069 TURRENTINE, J. W. The development of the American potash industry. *Better Crops with Plant Food* 33(3): 6-14, 40-42. Mar. 1949. 6 B46



## Mineral Soil Amendments

- 44070 CAZAS, A. Avec quoi chauler? Défense Agr. de la Beauce et du Perche 46: 21. Jan. 20, 1949. 14 D36
- 44071 EBERHARDT, Landw. erzeugungsreserven-anwendung von mineraldüngern. Württemb. Wchnbl. f. Landw. 116: 122. Mar. 5, 1949. 18 W96
- 44072 GREEN, J. Mineral fertilizers for Montana. Mont. Farmer-Stockman 36(14): 9. Mar. 15, 1949. 6 M764
- 44073 RUPP, E. New idea on limestone; we may be overlooking some elements. Mo. Ruralist 90(2): 18-19. Jan. 22, 1949. 6 R8891

## Manures and Composts

- 44074 ALLERTON, F. W. The standard compost emerges. Nurseryman & Seedsman 108: 1092-1094. Mar. 31, 1949. 80 N933
- 44075 CHAVES, H., GONZÁLEZ, I., and ALVAREZ, C. Compost para la tierra palmarena. Suelo Tico 1: 370-373. Dec. 1948. 8 Su2
- 44076 DAS, S. Activated sludge as a manure. Indian Farming 9: 364-367. Sept. 1948. 22 In283
- 44077 DENCKER, and HEIDENREICH. Neue wege der stallmistwirtschaft. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 1948(2): 3-18. 18 K96
- 44078 EARP-THOMAS, G. H. Organic fertilizers made in China. Organic Gard. 14(4): 32-34. Apr. 1949. 56.8 Or3
- 44079 EDRIDGE, T. G. The right use of compost. My Gard. 38: 269-272. Mar. 1949. 80 M995
- 44080 EYSTER, W. H. Sheet composting on the farm. Organic Gard. 14(4): 18-19. Apr. 1949. 56.8 Or3
- 44081 FLAWN, L. Compost—a growing need. Fruit, Flower & Veg. Trades' J. 95(10): 19. Mar. 5, 1949. 80 F946
- 44082 FLAWN, L. Composting for the commercial man. Fruit, Flower & Veg. Trades' J. 95(12): 18. Mar. 19, 1949. 80 F946
- 44083 FORTE, F. Estercoleros municipales: estudio económico de un proyecto. Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad. 6(62): 6-8. Nov. 1948. 15 B14
- 44084 FOSTER, R. L. Money in manure. Capper's Farmer 60(4): 11, 44. Apr. 1949. 6 M693
- Includes care and handling.
- 44085 HACKENBERG, P. N. Composting. (In Dutch.) East Indies (Dutch) Alg. Proefsta. v. Landb. Meded. 80, 18 p. 1948. 109.5 Ea73
- English summary.
- Also in Landbouw 20: 505-520. Nov./Dec. 1948. 22.5 L23
- 44086 JEWITT, T. N., and BARLOW, H. W. B. Animal excreta in the Sudan Gezira. Empire J. Expt. Agr. 17: 1-17. Jan. 1949. 10 Em7
- 44087 JOUGAN, E. La préparation et l'emploi des terreaux et composts. Acclimatation 76: 48. Feb. 26, 1949. 14 Ac2
- 44088 KORTLEVEN, J. Directions for compost research. (In Dutch.) T.N.O.-Nieuws 4: 85-89. Mar. 1949. 475 T11
- 44089 MORRIS, MRS. E. H. Compost piles. Gard. Club Amer. B. (ser. 11)13: 45-46. Mar. 1949. 90.32 G16
- 44090 NEYPES, E. C. Guides in the preparation of agricultural farm wastes. Cent. Luzon Agr. School. Monthly B. in Pract. Farming 3(8): 2-3. Dec. 1948. 25 C33
- 44091 SANDFORT, J. Mehrarbeit bei der stapelmistbereitung? Landw. Wchnbl. f. Westfalen u. Lippe 106: 153. Feb. 26, 1949. 18 L2346
- 44092 SNYDER, L. C. Making a compost pile. Minn. Hort. 77: 53. Apr. 1949. 81 M66
- 44093 STRUNZ, H. Abfall ist wichtiger rohstoff. Gartenbauwirtschaft [Wien] 1949(2): 5-6. Feb. 15, 1949. 80 G1936
- 44094 TORTI, M. Animal manures: are they sufficient fertilizer? (In Italian.) Allevatore 4(49): 3. Dec. 5, 1948. 49 AL55
- 44095 VOLPINI, A. On manurial selfsufficiency. (In Italian.) Allevatore 5(2): 5. Jan. 9, 1949. 49 AL55

## FORESTRY

## FOREST ECONOMICS AND POLICY

- 44098 BØRSET, O. Impressions about Danish forestry. (In Norwegian.) Tidsskr. for Skogbruk 56: 251-255. Oct. 1948. 99.8 T432
- 44099 BURKART, E. Waldwerttafeln als hilfsmittel für waldwertschätzungen. Allg. Forst- u. Holzwirtschaft. Ztg. 60: 44-45. Mar. 1949. 99.8 AL53
- 44100 DONIS, C. Essai d'économie forestière au Mayumbe. Inst. Natl. pour l'Etude Agron. du Congo Belge. P. Sér. Sci. 37, 92 p. Ref. 1948. 24 In7
- 44101 DREW, G. Lands and forests for tomorrow. Pulp & Paper Mag. Canada 50: 107-108. Jan. 1949. 302.8 P96
- 44102 DUERR, W. A., and VAUX, H. J. Research in the economics of forestry, 1940-1947. J. Forestry 47: 265-270. Apr. 1949. 99.8 F768
- 44103 EGGELING, W. J. Land utilization with special reference to forestry. Empire Forestry Rev. 28: 38-42. Mar. 1949. 99.8 Em72
- 44104 ERTELD, W. Über wesen und ziel der durchforstung. I-II. Forstw., Holzw. 2: 338-341; 3: 4-8. Dec. 15, 1948-Jan. 1, 1949. 99.8 F7793
- Germany.
- 44105 FRÖHLICH, J. Zum wiederaufbau der österreichischen forstwirtschaft. Allg. Forst- u. Holzwirtschaft. Ztg. 60: 53-55. Apr. 1949. 99.8 AL53
- 44106 GILL, L. Is livestock getting fair share of national forest resources? Mont. Farmer-Stockman 36(15): 24. Apr. 1, 1949. 6 M764
- 44107 GIRAUD, A. L'impôt sur le bois. Unité Pay-sanne 4(178): 3. Apr. 2, 1949. 14 Un3
- 44108 GOMES, P. More wood. (In Portuguese.) Rev. Agron. [Porto Alegre] 12: 193. Oct./Dec. 1948. 9.2 R325
- Reforestation.
- 44109 GONGGRYP, J. W., and BURGER, D. Studies about forestry in Surinam. (In Dutch.) Fonds Landb. Exportbur. P. 32, 262 p. Ref. 1948. 12 F73
- Table of contents also in English.
- 44110 GRAVEY, A. Pourquoi la région forestière landaise est-elle en péril? Bois et Résineux 31(1488): 1. Mar. 10, 1949. 99.82 B63
- 44111 GREIDANUS, G. The application of the replacement value theory in cost-price calculations in forestry. (In Dutch.) Nederland. Boschbouw-Tijdschr. 21: 61-66. Mar. 1949. 99.8 N28
- 44112 GRØN, A. H. Margin of productivity of forest work and its importance in forest enterprise. (In Danish.) Tidsskr. for Skogbruk 56: 300-307. Nov./Dec. 1948. 99.8 T432
- 44113 HANSON, P. D. The place of livestock grazing in the national forests. Mont. Farmer-Stockman 36(15): 25-26. Apr. 1, 1949. 6 M764
- 44114 HEMPEL, K. Halbseitig gelähmte freie wirtschaft? Holz-Zentbl. 75: 23, 25. (To be cont.) Jan. 14, 1949. 99.81 H742
- 44115 HENNIG, E. Die aufgaben des revierförsters im volkswald. Forstw., Holzw. 2: 347-348. Dec. 15, 1948. 99.8 F7793
- Germany.
- 44116 HOSKINS, R. N. Freight from forests; railroads stake in U. S. forestry program called tremendous. Cross Tie B. 30(3): 9-10, 36. Mar. 1949. 99.82 C87
- 44117 KEYSERLINGK, F. V. Kriegs- und nachkriegsfolgen in der forstwirtschaft. Landw. Wchnbl. f. Westfalen u. Lippe 106: 95-96. Feb. 5, 1949. 18 L2346
- 44118 KIENITZ, E., and POLSTER, H. Wirtschaftliche ausblicke auf den waldfeldbau mit waldstaudenroggen und goldregenhafer. Forstw., Holzw. 3: 2-4. Ref. Jan. 1, 1949. 99.8 F7793
- 44119 LEIBUNDGUT, H. Von der durchforstung zum erziehungsbetrieb höchster wertleistung. Schweiz. Z. f. Forstw. 100: 1-11. Ref. Jan. 1949. 99.8 J82
- French summary.



- 44120 LEKANDER, J. Peoples' attitude towards forestry. (In Swedish.) Skogsägaren 25: 23-25. Feb. 1949. 99.8 Sk55
- 44121 MALSBERGER, H. J. Pulp and paper industry's contribution to southern forestry. Forest Farmer 8(7): 6-7. Apr. 1949. 99.8 F7692
- 44122 MARPLES, G. Planning for posterity. Brit. Columbia Lumberman 33(3): 62-63, 116, 118. Mar. 1949. 99.81 B77
- 44123 MERENDI, A. Forests and population. (In Italian.) Georgofili [Firenze] (ser. 6) 12: 127-135. Jan./June 1948. 507 F51  
Need for reforestation.
- 44124 MONAHAN, A. C. Tree farming is new business. Sci. News Let. 55: 250-251. Apr. 16, 1949. 470 Sci24
- 44125 MYRING, B. Idle B. C. land put to work. Woodland World 2(3): 11. Mar. 1949. 99.8 W853  
Reforestation.
- 44126 PAVARI, A. The need for international collaboration between Mediterranean countries. Food & Agr. 1: 11-17. Jan./Mar. 1949. 389.8 F7326  
Forest problems and program.
- 44127 ROTTIN, B. En attendant la liberté: le "coude a coude" est de rigueur pour les professionnels du bois. Bois et Scieries 55: 219-221. Mar. 3, 1949. 99.81 B632
- 44128 SCHLATTER, A. J. Die bedeutung der schweizerischen waldwirtschaft in den beiden weltkriegen. Schweiz. Z. f. Forstw. 99: 633-653. Dec. 1948. 99.8 J82  
French summary.
- 44129 SHEPARD, H. B. Wooden dollars. Vt. Wood Prod. Conf. Rpt. 8: 29-34. 1948. 99.9 V594
- 44130 TAYLOR, M. N. Future pulpwood for Wisconsin mills. Pulp & Paper Mag. Canada 50: 110, 112, 116. Jan. 1949. 302.8 P96
- 44131 TOWNER, M. E. Our forests must be renewed, wanton destruction prevented. Cross Tie B. 30(4): 38-39. Apr. 1949. 99.82 C87
- 44132 U. S. FOREST SERV. Forestry in a changing world, by J. D. B. Harrison. Washington? 1948. 12 p. 1.962 A2F7634
- 44133 U. S. FOREST SERV. DIV. OF FOREST ECONOMICS. Publications of Forest Economics research personnel, 1928-1947. Washington? 1949. 90 p. 1.962 F4P96
- 44134 VASIL'EV, P. V., ed. Narodnokhoziaistvennye problemy Irkutskoi oblasti; les i lesnaya promyshlennost' [National economic problems of Irkutsk region; the forest and the lumber industry]. Moskva, 1948. 86 p. (Trudy Konferentsii po Izucheniiu Proizvoditel'nykh sil Irkutskoi Oblasti 4-11 Avgusta 1947g.) 99.66 V44N
- 44135 VEEN, B. Grundsätze der forstpolitik. Forstw., Holzw. 2: 337. Dec. 15, 1948. 99.8 F7793
- 44136 ZIRKLE, J. J., JR. Are you going to sell some timber? Georgia study offers helpful hints. Forest Farmer 8(7): 5, 9. Apr. 1949. 99.8 F7692

#### Legislation

- 44137 LID, H. Closure of forest plantation area. (In Norwegian.) Tidsskr. for Skogbruk 56: 307-308. Nov./Dec. 1948. 99.8 T432  
Legislation  
Discussion, by P. W. Voss, p. 309-310.

#### FOREST DESCRIPTION AND RESOURCES

- 44138 BRINK, V. C., and FARSTAD, L. Forest advance in north and central British Columbia. Canad. Field-Nat. 63: 37. Jan./Feb. 1949. 410.9 Ot8
- 44139 DEAN, G. W. Virginia's forests—a rich asset. Va. Econ. Rev. 2(2): 1-5. Apr. 1949. 280.7 V812
- 44140 HERMANSEN, N. K. From a visit in Scotland. (In Danish.) Dansk Skovfor. Tidsskr. 34: 84-94. Feb. 1949. 99.8 D23  
Forests and forestry.
- 44141 HURTUBISE, J. A. P. Une grande richesse: nos arbres. B. des Agr. 45(4): 57. Apr. 1949. 7 B872  
Canadian forests.
- 44142 JAGERSCHMIDT, Les enseignements du voyage du Comité des Forêts dans le Limousin et sur le Plateau de Millevaches en 1948. Acad. d'Agr. de France 35: 103-109. Feb. 2/9, 1949. 14 P215Bc  
Includes discussion.
- 44143 LALLEMAND, La forêt girondine. 14-16. Bois et Résineux 31(1484): 1; (1485): 1; (1487): 1. (Concl.) Jan. 30-Feb. 10, 28, 1949. 99.82 B63
- 44144 LEBARRON, R. K. Review of published information on the larch-Douglasfir type. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 15, 14 p. Ref. Nov. 1948. 1.9622 N3St1
- 44145 LHONEUX, J. DE. Excursion régionale à Namur. Soc. Cent. Forest. de Belg. B. 56: 73-78. Feb. 1949. 99.9 B83
- 44146 MARCH, E. W. Pine forests of the Bahamas. Empire Forestry Rev. 28: 33-37. Mar. 1949. 99.8 Em72
- 44147 MIRIVILIS, S. The forest. (In Greek.) Dasos 2(5): 14-17. 1948. 99.8 D262
- 44148 SMITH, C. T. Progress report on the Kettle Moraine State Forest. Wis. Conserv. B. 14(3): 9-12. Mar. 1949. 279.8 W752
- 44149 SRODON, A. Contribution to the forest history of the eastern Carpathians. (Abs.) Akad. Umiejtnosci. Wyd. Mat.-Przyrodniczy. Compt. Rend. 1948(2/3): 8. Feb./Mar. 1948. 512 K85C
- 44150 STÄLFELT, F. Sweden's green gold. Amer. Swedish Monthly 43(4): 15-17. Apr. 1949. 286.8 Sw3  
Forest resources.
- 44151 STEINMANN, H. Route, rail, voie fluviale et voie aérienne à travers la grande forêt équatoriale. Bois et Forêts des Trop. 2: 333-335. Fourth Quart. 1948. 99.8 B632
- 44152 TURC, L. L'oeuvre des maîtrises des eaux et forêts en Bourbonnais après la réformation de 1669. Soc. Forest. de Franche-Comté et Provs. de l'Est. B. Trimest. 25: 300-312. Dec. 1948. 99.9 So14
- 44153 U. S. FOREST SERV. Coeur D'Alene National forest, Idaho. Washington? 1949. Map. 1 F765Ma
- 44154 U. S. FOREST SERV. Our national forests; excerpt from report of the chief of the Forest Service, U. S. Dept. of Agriculture, 1948. Washington, 1949. 50 p. 1 F76Ou
- 44155 U. S. FOREST SERV. State of Alabama, national forest areas by counties. Washington? 1948. 1 p. 1.962 A2St236  
Similar reports for other States.
- 44156 WADSWORTH, F. H. Angel Monserrate's forest. Caribbean Forester 10: 1-7. Jan. 1949. 1.9622 T2C23  
Text in English and Spanish.

#### Individual Genera and Species

- 44157 AFANASIEV, M. Cedar and pine as farm trees for Oklahoma. Okla. Agr. Expt. Sta. B. B-331, 18 p. Mar. 1949. 100 Ok4
- 44158 AFANASIEV, M. A study of [eastern] red cedar plantations in north central Oklahoma. Okla. Agr. Expt. Sta. Tech. B. T-34, 16 p. Mar. 1949. 100 Ok4
- 44159 AUBREVILLE, A. Les Dacryodes (Pachylobus) et Santiria de l'ouest africain. Bois et Forêts des Trop. 2: 342-348. Ref. Fourth Quart. 1948. 99.8 B632
- 44160 COOK, D. B., and SIMS, I. H. Beech utilization and management problems. Forestry Chron. 25: 15-20. Mar. 1949. 99.8 F7623
- 44161 DUBEAU, N. P. Peligroso y grande; mahogany hunting in the Colombian Choco leads the author into many jungle experiences—dangerous and big. Monsanto Mag. 28: 18-22. Feb. 1949. 309.8 M75
- 44162 HOEHNE, F. C. The false and the true Brazilwood. (In Portuguese.) Chacaras e Quintais 79: 308-310. Mar. 15, 1949. 9.2 C34
- 44163 ILGENFRITZ, A. B. Wealth of the fields. (In Portuguese.) Orientação Econ. e Financeira 6(68): 37. Nov. 1948. 280.8 Or42  
Aethalia glazioviana.
- 44164 IRMAY, H. DE. La caoba, Swietenia macrophylla King, en Bolivie. Caribbean Forester 10: 43-52. Ref. Jan. 1949. 1.9622 T2C23
- 44165 LAMB, G. N. Woods of the mahogany family, excepting mahogany. Wood Prod. 54(4): 19-20. Apr. 1949. 99.82 W856  
Meliaceae.
- 44166 LOUIS, J., and FOUARGE, J. Essences forestières et bois du Congo. 5. Bruxelles, Institut National pour l'Étude Agronomique du Congo Belge, 1948. 28 p. 460.43 L92  
Guarea laurentii.



44167 MATTE, L. The taper of coniferous species with special reference to loblolly pine. *Forestry Chron.* 25: 21-31. Mar. 1949. 99.8 F7623

44168 MATTOON, W. R. Common forest trees of Florida; how to know them. Ed. 5. Tallahassee? Fla. Bd. of Forestry and Parks, 1948. 100 p. 99.3 M43F

44169 MURRAY, D. E. Eucalyptus forests in Australia. *Wood [London]* 14: 71-73. Mar. 1949. 99.82 W855

44170 PESCOFF, E. E. Cone bearing trees in Australia. *Westralian Farmers' Co-op Gaz.* 15(365): 65-66. Jan. 1949. 280.28 W522

44171 SCAMONI, A. Die schönfließender pappel—eine holzart höchster massenleistung. *Forstw., Holzw.* 2: 349-350. Dec. 15, 1948. 99.8 F7793

44172 SMITH, J. Ebony in the Mamfe Division. *Farm Forest* 9: 28-32. Jan./June 1948. 24 F226

44173 THOMPSON, F. W. The Neem tree [*Azadirachta indica*]. *Farm Forest* 9: 43. Jan./June 1948. 24 F226

44174 VAUX, H. J. Some economic aspects of growing sugar pine in California. U. S. Forest Serv. Calif. Forest and Range Expt. Sta. Forest Res. Note 58, 33 p. Sept. 1948. 1.9 F7626R

44175 WILL, G. F. The burr oak [*Quercus macrocarpa*]. N. & S. Dak. Hort. 22: 58. Apr. 1949. 81 N817

44176 WILLIAMSON, J. La Acacia negra en la pampa. *Montes* 4: 523-525. Nov./Dec. 1948. 99.8 M763  
Gleditsia triacanthos.

#### FOREST ADMINISTRATION AND MANAGEMENT

44177 BURMA. FOREST DEPT. Working plans manual. Burma. Ed. 3. Rangoon, 1948. 83 p. 99.67 B92

44178 FENSOM, K. G. Integrated utilization. *Forestry Chron.* 25: 47-51. Mar. 1949. 99.8 F7623

44179 FIJI. DEPT. OF FORESTRY. Annual report for 1947. Suva, 1948. 9 p. 99.9 F47

44180 FLORIDA. FOREST SERV. Tenth biennial report, July 1, 1946-June 30, 1948. n. p., 1948. 21 p. 99.9 F662W

44181 HELANDER, A. B. Management of the crown forests in Finland. (In Swedish.) Suomen Paperi- ja Puutavaralehti 31: 14-17. (Cont.) Jan. 15, 1949. 302.8 P1991

44182 HENRY, M. Austrian consolidated form for management data. *J. Forestry* 47: 304-306. Apr. 1949. 99.8 F768

44183 HODGINS, H. J. Forest management licenses Pulp & Paper Mag. Canada 50: 118, 120, 122. Jan. 1949. 302.8 P96

44184 HOLAND, P. II. Community forests. (In Norwegian.) Tidsskr. for Skogbruk 56: 259-262. Oct. 1948. 99.8 T432

44185 KLESSIG, E. Seventy-five years of wood-cropping. *Wis. Conserv. B.* 14(4): 27-29. Apr. 1949. 279.8 W752

44186 KRYLOV, G. V. Prospects of utilizing the forests of Tomsk Region for lumber supply needs. (In Russian.) Les 4(3): 50-56. May/June 1948. 99.81 L563

44187 MILWARD, R. C. The Indian Forest Service: its origin and progress. *Unasylva* 3: 14-22. Jan./Feb. 1949. 99.8 Un1

44188 MINCKLER, L. S., FASSNACHT, D. L., and TRAIN, R. K. Growth and species evaluation of some unmanaged upland hardwoods in southern Illinois. U. S. Forest Serv. Cent. States Expt. Sta. Tech. Paper 110, 9 p. Nov. 1948. 1.9622 C3T222

44189 MÜLLER, A. Über form und umfang einzuzäunender flächen. *Forstw., Holzw.* 2: 45-46. Feb. 1, 1948. 99.8 F7793

44190 MUSSER, K. Western slope rancher discusses permittees' dependency on forest. *Rec. Stockman* 60(16): 10. Apr. 21, 1949. 286.85 D43

44191 NUTTING, A. D., RETTIE, J. C., and BANKS, W. G. Rehabilitation of fire-damaged forest lands in southwestern Maine. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 23, 21 p. Feb. 1949. 1.9622 N2St22

44192 NYASALAND. FORESTRY DEPT. Annual report for the year ended 31st December, 1947. Zomba, 1948. 14 p. 99.8 N982

44193 PAVARI, A. The forest problem. (In Italian.) *Ital. Agr.* 86: 151-161. Feb./Mar. 1949. 16 It1G  
With reference to the Province of Grosseto.

44194 PRODAN, M. Normalisierung des plenterwaldes? *Bad. Forstl. Versuchsanst. Schriftenreihe* 7, 21 p. Ref. 1949. 99.9 B142S

44195 RUSSEHOLT, E. S. Community forests pay off given proper management. *Woodland World* 2(3): 3. Mar. 1949. 99.8 W853  
Canada.

44196 SCHACKLETON, P. This is your Dominion Forest Service. 2. *Forest & Outdoors* 45(4): 18-19, 32-33. Apr. 1949. 99.8 C16

44197 SHREVE, E. P. Farm forester sounds warning. *W. Va. Conserv.* 12(4): 17, 21. Apr. 1949. 279.8 W524

Overcutting of forests.

44198 SIMONEN, M. Efficiency of technique in Swedish forestry: a summary of the investigations of the "Job Study Department of the Forest Employers' Association and the Swedish Forest Service." Stockholm, S.D.A., 1948? 154 p. 99.76 S153

44199 TAMESIS, F. Philippine forest and its administration. *Forest Leaves* 3: 7-8, 69-70. 1948/49. 99.8 P532

44200 THALASSINOS, D. Overcuttings. (In Greek.) *Dasos* 2(5): 18. 1948. 99.8 D262

#### Farm Woodlands

44201 BIERI, W. Hecken und feldgehölze. *Grüne* 77: 152-155. Feb. 11, 1949. 17 Sch9

44202 DENUYL, D. Tree windbreaks. *Hoosier Hort.* 31: 26-27. Feb. 1949. 81 In2H

44203 FOX, A. C. Conservation and farmstead windbreaks. *N. Dak. Outdoors* 11(8): 8-9. Feb. 1949. 412.9 N815

44204 HERRAN, K. Lebende schutzanlagen nach der naturbaumethode. *Allg. Forst- u. Holzwirtschaft. Ztg.* 60: 45-47. Mar. 1949. 99.8 AL53

44205 INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Five pointers on farm woodlands. *Purdue U. Agr. Ext. Leaflet* 295, 4 p.-folder. 1949. 275.29 In2L

44206 INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Ten pointers on tree windbreaks. *Purdue U. Agr. Ext. Leaflet* 294, 4 p.-folder. 1949. 275.29 In2L

44207 MERRILL, L. P. Forestry possible \$607,500,000 crop; proper management of woodlands important part of soil conservation programs. *East Tex.* 23(7): 11, 17, 23-24. Apr. 1949. 6 Ea73

44208 RESEARCH an aid to better farm forests. *Ohio Farmer* 203(7): 26-27. Apr. 2, 1949. 6 Oh3

44209 RICHARDSON, R. Trees are a cash crop. *South. Agr.* 78(3): 15, 34. Mar. 1949. 6 So83A  
Income from wood lots in Alabama.

44210 SELTER, G. L. The farm woodlot should be kept for future generations. *Farm & Gard.* [Watertown, N. Y.] 1949: 6. Feb. 26, 1949. 6 F234

44211 SILVERSIDES, C. R. La coupe rationnelle du bois. *B. des Agr.* 45(4): 8, 86. Apr. 1949. 7 B872  
Farm woodlands.

44212 SILVERSIDES, C. R. L'entretien du boisé de ferme. *B. des Agr.* 45(3): 8, 26, 68-69. Mar. 1949. 7 B872

44213 SKOROKHOD, V. G. Dokuchaev tree belts in Donbas. (In Russian.) *Priroda* 37(9): 64-66. Sept. 1948. 410 P933

44214 TRAAS, C., JR. Shelter for the orchard. (In Dutch.) *Groenten en Fruit* 4: 574-575. Mar. 10, 1949. 80 G89

44215 WILLIAMS, F. S. N. Lots of wood. *B. C. Farmer & Gard.* 4(8): 3. Jan. 1949. 7 F86  
Includes farm woodland management.

44216 WITZGALL, Beispiels- und versuchswirtschaften im bauernwald. *Allgäuer Bauernbl.* 17: 145. Mar. 18, 1949. 18 AL53

#### Mensuration

44217 BITTERLICH, W. Das relaskop. *Allg. Forst- u. Holzwirtschaft. Ztg.* 60: 41-42. Mar. 1949. 99.8 AL53

44218 COSMA, D. Aerial photography at the service of forestry technique. (In Italian.) *Universo* 28: 273-284. May/June 1948. 331.8 Un3

44219 HUTCHISON, O. K. Aerial photo alignment guide. U. S. Forest Serv. Central States Forest Expt. Sta. Note 50, 2 p. Dec. 1948. 1.9 F76252S



- 44220 JOHNSON, F. A. Statistical aspects of timber-volume sampling in the Pacific Northwest. *J. Forestry* 47: 292-295. Apr. 1949. 99.8 F768
- 44221 JOHNSON, F. A., and ENGSTROM, W. Taper tables for western hemlock. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 51, 5 p. Mar. 1, 1949. 1.9 F7629Fr
- 44222 KRENN, K. Tarife zur massenberechnung von beständen. *Bad. Forstl. Versuchsanst. Schriftenreihe* 6, 43 p. 1948. 99.9 B142S
- 44223 MEYER, H. A. Berechnung und auswertung des stärkezuwachses. *Schweiz. Z. f. Forstw.* 100: 27-38. Ref. Jan. 1949. 99.8 J82  
French summary.
- 44224 NOYON, F. Méthode pratique de topographie forestière à l'usage des chefs de chantiers et contre-maitres pour le relevé d'itinéraires de sondages en forêt tropicale. *Bois et Forêts des Trop.* 2: 371-378. Fourth Quart. 1948. 99.8 B632
- 44225 ROGERS, E. J. A short cut for scaling aerial photos. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 20, 10 p. Nov. 1948. 1.9622 N2St22
- 44226 STAEBLER, G. R., and SHAW, E. W. Cordwood volume tables for second-growth Douglas-fir. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 52, 3 p. Mar. 10, 1949. 1.9 F7629Fr
- 44227 U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. A revised yield table for Douglasfir, by D. Bruce. Portland, Oreg., 1948. 17 p. 1.9622 P2R32
- ### FOREST PROTECTION AND DAMAGE
- References on forest insects are classified with Entomology; references on diseases of trees with Plant Pathology.
- 44228 BALL, J. C. Association of white pine and other forest tree species and Ribes in the Southern Appalachians. *J. Forestry* 47: 285-291. Apr. 1949. 99.8 F768
- 44229 CHURCH, T. W., JR. Effects of defoliation on growth of certain conifers; a summary of research literature. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 22, 12 p. Ref. Feb. 1949. 1.9622 N2St22
- 44230 HELMERS, A. E. Disintegration of girdled western hemlock and grand fir. U. S. Forest Serv. North Rocky Mountain Forest & Range Expt. Sta. Paper 17, 14 p. Dec. 1948. 1.9622 N3St1
- 44231 VAUGHAN, B. Damage to the forests. (In Portuguese.) *Chacaras e Quintais* 79: 289-291. Mar. 15, 1949. 9.2 C34  
Need for protection in Brazil.
- ### Fire
- 44232 CREIGHTON, G. W. I. Fire prevention in Nova Scotia. *Forestry Chron.* 25: 43-46. Mar. 1949. 99.8 F7623
- 44233 EDWARDS, F. 1949 fire hazard to be earlier, higher. *Woodland World* 2(3): 1, 8. Mar. 1949. 99.8 W853  
Canada.
- 44234 FRASER, F. A. Fire protection problems. *Brit. Columbia Lumberman* 33(3): 65-66, 109-110, 112, 114, 116. Mar. 1949. 99.8 B77
- 44235 GAULT, A. Les incendies ennemis No 1 de la forêt. *Monit. Agr.* 2(61): 9. Mar. 13, 1949. 14 M744  
France.
- 44236 HANSON, A. Fire control as an investment. *Wis. Conserv. B.* 14(4): 25-26. Apr. 1949. 279.8 W752  
Forest fire control.
- 44237 KIRKPATRICK, R. C. What the logger leaves. *Lake States Timber Digest* 3(12): 3-4. Mar. 24, 1949. 99.8 L14  
Fire risk.
- 44238 MACLEOD, J. C. Effect of topography on hygrometer readings. *Forestry Chron.* 25: 32-33. Mar. 1949. 99.8 F7623
- 44239 SCHAEFER, V. J. The possibilities of modifying lightning storms in the northern Rockies. U. S. Forest Serv. North Rocky Mountain Forest & Range Expt. Sta. Paper 19, 17 p. Jan. 1949. 1.9622 N3St1  
As an aid to forest fire control.
- 44240 SCRUGGS, C. G. Red tongues of destruction. *Prog. Farmer, Tex. Ed.* 64(4): 19, 120. Apr. 1949. 6 T311  
Forest fire fighting.
- 44241 TOWELL, W. E. Fire! Foe of forests; a brief history of forest fire control in Missouri. *Mo. Conserv.* 10(3): 3-4. Mar. 1949. 279.8 M69
- 44242 U. S. FOREST SERV. National forest fire report, calendar year 1948. Washington? 1949? 16 p. 1.962 A2N212  
Statistics.
- 44243 U. S. FOREST SERV. You and forest fires. U. S. D. A. PA-64, 14 p. Dec. 1948. 1 Ag84Pro
- 44244 VILLENEUVE, G. O. Méthodes d'évaluation des dangers d'incendie forestier au Canada et aux États-Unis. *Quebec. Dept. Lands and Forests. Met. Bur. B.* 13, 57 p. 1949. 342 Q3
- ### SILVICULTURE
- 44245 AREND, J. L., and JULANDER, O. Oak sites in the Arkansas Ozarks. *Ark. Agr. Expt. Sta. B.* 484, 42 p. Dec. 1948. 100 Ar42
- 44246 BAAK, W. Anzucht und kultur der pappel. *Forstw., Holzw.* 2: 324-325. Nov. 1, 1948. 99.8 F7793
- 44247 BALDWIN, H. I. Height growth of Norway spruce plantations. N. H. Forestry and Recreation Dept. Caroline A. Fox Res. and Demon. Forest. Fox Forest Notes 38, 2 p. Feb. 1949. 99.9 N454F
- 44248 BENZEL, W. Zu: "verwendung von kiefern-sämlingen aus anflug." *Forstw., Holzw.* 2: 367. Dec. 1, 1948. 99.8 F7793
- 44249 BENZEL, W. Zu: waldbrache. *Forstw., Holzw.* 3: 11-14. Jan. 1, 1949. 99.8 F7793
- 44250 BERGER. Verwendung von ki-sämlingen aus anflug. *Forstw., Holzw.* 2: 268-269. Sept. 1, 1948. 99.8 F7793
- 44251 BJÖRKHEM, K. E. New equipment for mechanized soil preparation. (In Swedish.) *Skogsägaren* 25: 28-30. Feb. 1949. 99.8 Sk55
- 44252 BLANCKMEISTER, H. Mathematische formulierung der beziehung zwischen kulturfläche und fläche der saat- und verschulkämpfe. *Forstw., Holzw.* 2: 343-344. Dec. 15, 1948. 99.8 F7793
- 44253 BLECHSCHMIDT, M. Durch stockachsel-pflanzung wiederaufforstung steiler hänge. *Forstw., Holzw.* 2: 326-327. Nov. 1, 1948. 99.8 F7793
- 44254 BOUDRU, M. A propos des taillis sous futaie. *Ann. de Gembloux* 55: 28-35. Ref. First Quart. 1949. 13 G28
- 44255 CHAPMAN, H. H. Effect of shade on loblolly pine. *J. Forestry* 47: 309. Apr. 1949. 99.8 F768
- 44256 DACANAY, P. How to plant trees. *Forest Leaves* 3: 11, 34. 1948/49. 99.8 P532
- 44257 DEGEN. Wald auf neuland: ein beitrag zu Diepolds waldbrache. *Allg. Forstz.* 3: 148-149. Aug. 1, 1948. 99.8 AL52
- 44258 DELEVOY, G. A propos de sécheries de cones. *Soc. Cent. Forest. de Belg. B.* 56: 89-117. Ref. Mar. 1949. 99.9 B83
- 44259 DUCHAINE, W. J. Tree planting machines. *Amer. Forests* 55(4): 23, 40. Apr. 1949. 99.8 F762
- 44260 FLORIDA BOARD OF FORESTRY AND PARKS. Planted pines pay. *Fla. Bd. Forestry and Parks. C.* 2, rev., 8 p. 1948. 99.9 F662C
- 44261 FOURY, P. Principes de sylviculture tropicale. *Bois et Forêts des Trop.* 2: 349-367. (Cont.) Fourth Quart. 1948. 99.8 B632
- 44262 GUINAUDEAU, J. Un exemple de traitement du chêne rouvre dans le centre de la France: la Forêt Domaniale de Montargis. *Schweiz. Z. f. Forstw.* 100: 12-27. Jan. 1949. 99.8 J82  
German summary.
- 44263 HALL, N. Einige daten über die aufforstung in Südastralien. *Allg. Forst- u. Holzwirtschaft. Ztg.* 60: 61. Apr. 1949. 99.8 AL53
- 44264 HANSEN, G. M. Forest genetics comes of age. *Amer. Forests* 55(4): 16-17, 33, 41. Apr. 1949. 99.8 F762
- 44265 KIMBROUGH, E. F. Making paper tubes for plant propagation. U. S. Forest Serv. Calif. Forest and Range Expt. Sta. Forest Res. Note 59, 5 p. Jan. 1949. 1.9 F7626R



44266 KOROLEFF, A. Progress in silvicultural research in the pulp and paper industry of Canada. *Forestry Chron.* 25: 40-42. Mar. 1949. 99.8 F7623

44267 KRAUCH, H. Growth after cutting in an even-aged mature ponderosa pine stand. *J. Forestry* 47: 296-299. Apr. 1949. 99.8 F768

44268 KRISTIANSEN, A. Care of oak forests under discussion. (In Norwegian.) *Tidsskr. for Skogbruk* 56: 246-250. Oct. 1948. 99.8 T432

44269 KROTKEVICH, P. G. To extend the raw material base for supplying the national economy with pine lumber. (In Russian.) *Les* 4(3): 43-46. May/June 1948. 99.81 L563

Cultural practices for pine in U. S. S. R.

44270 LORENZ, R. W. Ponderosa pine seed source study. III. Agr. Expt. Sta. *Forestry Note* 4, 3 p. Feb. 17, 1949. 99.9 IL62

44271 LØVENGREEN, J. A. Clear cutting of oak. (In Danish.) *Dansk Skovfor. Tidsskr.* 34: 97-135. Mar. 1949. 99.8 D23

44272 MCCORMICK, L. E. Planting and care of forest trees. *Mo. Agr. Col. Ext. C.* 563, 12 p. Aug. 1948. 275.29 M69C

44273 MARRERO, J. Tree seed data from Puerto Rico. *Caribbean Forester* 10: 11-30. Jan. 1949. 1.9622 T2C23

Text in English and Spanish.

44274 MEYERS, J. W., and BEARD, B. M., JR. Order your trees early. *Prog. Farmer, Miss.-Ark.-La. Ed.* 64(3): 134. Mar. 1949. 6 So81

Planting seedlings in the Southern States.

44275 NAGEL, J. L. Influence des éléments météorologiques sur l'accroissement des forêts. *Schweiz. Z. f. Forstw.* 99: 653-676. Dec. 1948. 99.8 J82

German summary.

44276 NOSTI, J. Cultivos arbóreos coloniales. *Inst. de Estud. Africanos. Arch.* 2(4): 61-74. June 1948. 99.27 N84

44277 RAMELLA, R. Preparación de almácigas para la plantación de arboles. *Campo y Suelo Argentino* 32(387): 28. Jan. 1949. 9 C15

44278 REIN. Verwendung von ki-sämlingen aus anflug. *Forstw., Holzw.* 2: 342. Dec. 15, 1948. 99.8 F7793

44279 ROE, A. L. Thirty-nine years' growth in a cut-over larch stand. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. *Res. Note* 70, 6 p. Dec. 1948. 1.9622 N3R31

44280 RONTCHEVSKY, W. Importance de la couverture morte et de l'humus dans la conservation des forêts. *Bois Natl.* 19: 427. Nov. 15, 1948. 99.81 B63

44281 ROST, H. Ante el problema de la celulosa; híbridos del género "Pópulus" de rápido crecimiento. *Montes* 4: 511-520. (To be cont.) Nov./Dec. 1948. 99.8 M763

44282 ROTHE, P. L. Régénération naturelle en forêt tropicale; le "Diptérocarpus deyre" (dau) sur le versant cambodgien du Golfe de Siam. *Bois et Forêts des Trop.* 2: 368-370. Fourth Quart. 1948. 99.8 B632

44283 SAMAOYA PIVARAL, R. Sembrando árboles se ganarán fortunas. *Rev. de Agr. [San José]* 21: 121, 123. Mar. 1949. 8 Es1

44284 SHMIDT, V. E. Regeneration of forest by dense plantings. (In Russian.) *Agrobiologiya* 1948(4): 118-121. July/Aug. 1948. 20 Ag822

44285 STOCKWELL, P., and RIGHTER, F. I. Kreuzung von waldbäumen. *Allg. Forstz.* 3: 153-154. Aug. 1, 1948. 99.8 AL52

44286 TAYLOR, SIR W. L. The re-afforestation of devastated areas [Great Britain]. *Brit. Agr. J.* 1: 102-105. Autumn 1948. 10 B776

44287 TSCHERMAK, L. Karstaufforstung. *Schweiz. Z. f. Forstw.* 100: 38-64. Ref. Jan. 1949. 99.8 J82

French summary.

44288 VEEN, B. Neue methoden im neuen jahr. *Forstw., Holzw.* 3: 1. Jan. 1, 1949. 99.8 F7793

44289 VIDME, T. Chemical weed control. (In Norwegian.) *Tidsskr. for Skogbruk* 56: 287-296. Nov./Dec. 1948. 99.8 T432

In forest tree nurseries.

44290 WALTERS, C. S., FOX, H. W., and KULP, D. A progress report on the use of chemicals in destroying hardwood tree stumps by burning. III. Agr. Expt. Sta. *Forestry Note* 2, 2 p. Dec. 3, 1948. 99.9 IL62

44291 WARRACK, G. Treatment of red alder in the coastal region of British Columbia. *Brit. Columbia. Forest Serv. Res. Notes* 14, 7 p. 1949. 99.9 B771

## LUMBERING

44292 BRUNDAGE, M. R. How to find metal in trees and logs. *South. Lumberman* 178(2233): 96, 98, 100. Apr. 15, 1949. 99.81 So82

44293 KNIGHT, G. E. Early history of lumbering. *Sylva* 5: 25-29. Jan./Feb. 1949. 99.8 Sy5

44294 KRON, V. To fulfill the five year plan on time. (In Russian.) *Lesn. Promysh.* 8(9): 7-8. Sept. 1948. 99.82 L56

Lumbering policy in Latvian SSR.

## Equipment

44295 ALLOUARD, P. Le véhicule tous-terrains dans l'exploitation forestière tropicale. *Bois et Forêts des Trop.* 2: 379-388. Fourth Quart. 1948. 99.8 B632

44296 CALLAHAN, J. D. Mechanized pulp logging. *Wood [Chicago]* 4(4): 18-19. Apr. 1949. 99.82 W859

44297 FOBES, E. W. Aerial skidding by gravity. U. S. Forest Serv. Forest Prod. Lab. *Impr. Harvesting Methods. Equip. Survey Notes. Mimeog.* R1637-30, 2 p. Feb. 1949. 1.9 F761R

Movement of wood on suspended wires.

44298 FOBES, E. W. Bark-peeling machines and methods. U. S. Forest Serv. Forest Prod. Lab. *Mimeog.* D1730, 22 p. Ref. Jan. 1949. 1.9 F761R

44299 FOBES, E. W. Preloading pulpwood racks. U. S. Forest Serv. Forest Prod. Lab. *Impr. Harvesting Methods. Equip. Survey Notes. Mimeog.* R1637-28, 2 p. Nov. 1948. 1.9 F761R

44300 FOBES, E. W. Racking short sawlogs for truck loading. U. S. Forest Serv. Forest Prod. Lab. *Impr. Harvesting Methods. Equip. Survey Notes. Mimeog.* R1637-31, 2 p. Feb. 1949. 1.9 F761R

44301 FOBES, E. W. Self-loader for long logs. U. S. Forest Serv. Forest Prod. Lab. *Impr. Harvesting Methods. Equip. Survey Notes. Mimeog.* R1637-32, 2 p. Feb. 1949. 1.9 F761R

44302 FOBES, E. W. Single line continuously moving cable systems. U. S. Forest Serv. Forest Prod. Lab. *Impr. Harvesting Methods. Equip. Survey Notes. Mimeog.* R1637-29, 4 p. Jan. 1949. 1.9 F761R

44303 FOBES, E. W. Wyssen cable system. *Wood [Chicago]* 4(2): 28. Feb. 1949. 99.82 W859

44304 GNEDENKOV, A. DSP log loader. (In Russian.) *Lesn. Promysh.* 8(9): 21-22. Sept. 1948. 99.82 L56

44305 GRAHAM, P. H. How to select the right timber cutting equipment to cut felling and bucking costs. *Natl. Hardwood Mag.* 23(3): 37, 40, 42-46, 54. Apr. 1949. 99.81 N212

44306 GUTHKNECHT. Fliegende sägewerke: eine zeiterscheinung, fahrbare gatter: eine forderung. *Forstw., Holzw.* 2: 332-333. Nov. 1, 1948. 99.8 F7793

44307 HYLER, J. E. Wood-working saw blades. III. *South. Lumberman* 178(2233): 102, 104. Apr. 15, 1949. 99.81 So82

44308 LISICHKIN, F. I. Aerial yarding and loading of logs. (In Russian.) *Lesn. Promysh.* 8(9): 3-4. Sept. 1948. 99.82 L56

Use of cables.

44309 LISTER, S. Sanders and sanding. London, Lomax, Erskine, 1948. 76 p. 99.77 L69S

44310 MCCOLL, B. J. The logger's dream. *Pulp & Paper Mag. Canada* 50: 132. Jan. 1949. 302.8 P96

A mobile yarding and loading machine.

44311 MILLER, C. I. History of chain saws. *South. Lumberman* 178(2233): 52, 54, 56. Apr. 15, 1949. 99.81 So82

44312 MILLER, R. H. P., and FOBES, E. W. Hydraulic log cart: loads carried practically clear of ground by vehicle used in Southeast. *Cross Tie B.* 30(4): 32, 34. Apr. 1949. 99.82 C87

44313 PERMOGOROV, I. A. New construction of longitudinal "dwarf" conveyer. (In Russian.) *Lesn. Promysh.* 8(9): 20. Sept. 1948. 99.82 L56

For lumber transportation.

44314 SHERMAN, D. C. Flexibility in wire rope. *South. Lumberman* 178(2233): 92-94. Apr. 15, 1949. 99.81 So82

44315 SIMMONS, F. C. Good logging practice. 16. *Timber Canada* 9(8): 33-36, 59-60. (Concl.) Apr. 1949. 99.81 T487

Logging trucks.



- 44316 SIMMONS, F. C. Mechanized logging. *Vt. Wood Prod. Conf. Rpt.* 8: 22-25. 1948. 99.9 V594
- 44317 STEVENS, J. Big-wheel logging. *South. Lumberman* 178(2233): 82. Apr. 15, 1949. 99.81 So82
- 44318 VANNORTWICK, L. F. Right load-moving ability cuts truck operating costs. *South. Lumberman* 178(2233): 74. Apr. 15, 1949. 99.81 So82
- 44319 VILLATTE, J. A. DE. Les ateliers coopératifs de mécanique générale de l'Ogooué. *Bois et Forêts des Trop.* 2: 389-394. Fourth Quart. 1948. 99.8 B632
- Equipment in Gaboon.
- 44320 WALTERS, C. S., and KENT, B. F. Packaged end-loading of log trucks in Illinois. *Ill. Agr. Expt. Sta. Forestry Note* 3, 2 p. Jan. 10, 1949. 99.9 IL62

### Logging

- 44321 BLACK, R. Village for lonely loggers. *Amer. Forests* 55(4): 10-11, 30, 34. Apr. 1949. 99.8 F762
- Sweden.
- 44322 FOBES, E. W. Up-in-the-air logging. *Wood [Chicago]* 4(3): 28. Mar. 1949. 99.82 W859
- 44323 HARRINGTON, L. Skippers outfit tricky Fraser River; tow log rafts to B. C. lumber mills. *Woodland World* 2(3): 12. Mar. 1949. 99.8 W853
- 44324 LAMP, I. Die passendeinteilung bei der schlägerung im gebirge. *Allg. Forst- u. Holzwirtschaft.* Ztg. 60: 42-44. Mar. 1949. 99.8 AL53
- 44325 LECLÈRE, A. Toujours à propos des délais d'abatage et de vidange des coupes. *Bois* 66(4): 1, 3. (Concl.) Feb. 25/28, 1949. 99.82 B632
- 44326 ROGACHEV, F. I., and SHIRSHOV, N. V. In the Vladimir forests. (In Russian.) *Lesn. Promysh.* 8(9): 16. Sept. 1948. 99.82 L56
- Logging
- 44327 SAMOFALOV, A. I., SKORNIÁKOV, M. E., and LEBEDEV, M. V. Increasing productivity and securing of land transport [of logs]. (In Russian.) *Lesn. Promysh.* 8(9): 8-9. Sept. 1948. 99.82 L56
- Use of horses.
- 44328 SVARNAS, D. Marking and logging in the collegial forest of Pertuli. (In Greek.) *Dasos* 2(5): 41-46. 1948. 99.8 D262

### Lumber Industry

- 44329 ANDREEV, N. P. Retail marketing of lumber in Rostov Region. (In Russian.) *Les* 4(3): 59. May/June 1948. 99.81 L563
- 44330 BARTH, J. La situation du marché du noyer dans le Sud-Ouest. *Bois et Scieries* 55: 372. Apr. 14, 1949. 99.81 B632
- 44331 BREITENBUCHER, H. J. Le débit des résineux. *Rev. du Bois* 4(3): 22-24, 26. (Concl.) Mar. 1949. 99.82 R32
- 44332 BRITISH STANDARDS INSTITUTION. Nomenclature of commercial timbers. London, 1948. 20 p. 290.9 B77
- 44333 CLAPP, A. W., JR. White speck becomes prized paneling; aged appearance of white speck fir simulates ocean-weathered driftwood. *Wood Construct.* 35(3): 36. Mar. 1949. 99.81 W852
- 44334 CUREY, J. A. New lumber era; pre-war conditions will not return. *South. Lumber J.* 53(4): 42, 92. Apr. 10, 1949. 99.81 So8
- 44335 DRAKE, G. L. Utilization of low-value hardwoods and softwoods in the Pacific Northwest. *West Coast Lumberman* 76(3): 76, 78, 80, 82. Mar. 1949. 99.81 W52
- 44336 ELCHIBEGOFF, I. M. United States international timber trade in the Pacific area. Stanford, Calif., Stanford U. Press, 1949. 302 p. 99.76 EL1
- 44337 ERIKSEN, C. F. The timber industry 1948. *Norsk Skogindust.* 3: 8-10. Jan. 1949. 99.82 N81
- 44338 HEIN, E. N. Timber—livelihood for multitudes. *Wis. Conserv. B.* 14(4): 30-31. Apr. 1949. 279.8 W752
- 44339 HEITERT, G. L. Plugging—a method of lumber grade improvement. *South. Lumberman* 178(2233): 59. Apr. 15, 1949. 99.81 So82
- 44340 LATHAM, B. Timber and plywood, 1949-1953; a review of the Slr Keith Price Report. *Wood [London]* 14: 80-82. Mar. 1949. 99.82 W855

- 44341 LINDEBERG, B. Will decreased wooden house construction increase lumber export. (In Swedish.) *Svensk Trävaru-Tidn. Svensk Pappersmassetidn.* 1949: 22, 25. 99.81 Sv22
- 44342 LOPUKHOV, E. I. Lumber industry must strive for high quality of products. (In Russian.) *Les* 4(3): 16-18. May/June 1948. 99.81 L563
- U. S. S. R.
- 44343 LUKASHKIN, N. I. Lumber of a higher quality for construction. (In Russian.) *Les* 4(3): 19-27. May/June 1948. 99.81 L563
- U. S. S. R.
- 44344 MAHAFFAY, R. E. West Coast hemlock. *Calif. Lumber Merchant* 27(20): 26-27. Apr. 15, 1949. 99.81 C12
- 44345 MALYKH, A. To improve the lumber supply of Murmansk Region. (In Russian.) *Les* 4(3): 57-58. May/June 1948. 99.81 L563
- 44346 MORPURGO, E., and FAVARON, R. The wood market at Udine. (In Italian.) *Cam. di Com., Indus. e Agr. del Friuli. B. Uffic.* 3: 3-5. Jan. 1949. 287 Ud5
- 44347 NAJERA Y ANGULO, F. El abastecimiento del mercado nacional de maderas. Madrid, 1948. 133 p. (Archivos del Instituto de Estudios Africanos, v. 2, No. 5) 99.76 N14
- 44348 NATIONAL HARDWOOD LUMBER ASSOCIATION. Rules for the measurement & inspection of hardwood lumber, Cypress veneers and thin lumber. Chicago 1949. 102 p. 99.76 N211
- 44349 NEW HAMPSHIRE FORESTRY AND RECREATION COMMISSION. Directory of sawmills and other primary wood-using industries of New Hampshire. 1948. 25 p. 99.9 N45W
- 44350 NORGES EXPORTRÅD. Norway; survey of exports and economic developments. Oslo, 1948. 152 p. 280.173 N76
- Includes forestry and forest products industries.
- 44351 NORMAND, M. D. Le classement des bois d'œuvre du Mayumbe. *Courrier Agr.* 13(26): 1. Dec. 22, 1948. 24 C83
- 44352 RAZOUS, P. Le commerce des bois en France et dans les pays de l'Union Française d'Amérique. *Bois et Scieries* 55: 118-121. Feb. 3, 1949. 99.81 B632
- 44353 RONDILLA, R. Short-cut method in lumber grading. *Forest Leaves* 3: 25, 27-28. 1948/49. 99.8 P532
- 44354 RUSSELL, R. S. Government bulk buying; an economic and critical analysis of government purchasing timber. *Weekly Market News* 27(15): 2; (16): 2. (Cont.) Apr. 14-21, 1949. 286.81 G762A
- Canada.
- 44355 SCOTT, M. H. Weights of timbers used in South Africa, with a list of their standard and common names. *So. African Forestry Assoc. J.* 17: 75-112. Feb. 1949. 99.9 So82
- 44356 SOMERS, J. G. Integration of forest industries. *Forestry Chron.* 25: 5-14. Mar. 1949. 99.8 F7623
- Canada.
- 44357 VANGNITS, P. R. Fixed prices for lumber. (In Russian.) *Lesn. Promysh.* 8(9): 10-11. Sept. 1948. 99.82 L56
- 44358 ZIVNUSKA, J. A. Lumber market factors. *Wood [Chicago]* 4(4): 20-21, 40-41. (To be cont.) Apr. 1949. 99.82 W859

### Sawmills

- 44359 CAMERON, G. R. Sawmills. *Rhodesia Agr. J.* 45: 454-467. Sept./Oct. 1948. 24 R34
- Equipment and operation.
- 44360 CUNANAN, S. F. Wanted: a law regulating the establishment and operation of sawmills in the Philippines. *Forest Leaves* 3: 21, 23-24. 1948/49. 99.8 P532
- 44361 DIXON, B. A home-made sawmill. *South. Lumberman* 178(2232): 88. Apr. 1, 1949. 99.81 So82
- 44362 DOSKER, C. D. Proper log use increases your chance for profits. *Wood [Chicago]* 4(3): 26-27, 46; (4): 30, 44-45. Mar.-Apr. 1949. 99.82 W859
- 44363 HETTERICH, G. Die frage nach der kostenrechnung: "ist meine berechnung der maschinenkosten richtig?" *Holz-Zentbl.* 75: 23-25. Jan. 14, 1949. 99.81 H742
- Sawmills.



- 44364 O'CONNOR, A. J. Sawmilling policy in relation to timber produced by the State. So. African Forestry Assoc. J. 17: 59-74. Feb. 1949. 99.9 So82
- 44365 RAZOUS, P. Les rendements quantitatifs et qualitatifs en sciages. Bois et Sciéries 55: 223-226, 370-372. (Cont.) Mar. 3-Apr. 14, 1949. 99.81 B632
- 44366 SHADRIN, N. Complex wood-riving machinery. (In Russian.) Lesn. Promysh. 8(9): 5-7. Sept. 1948. 99.82 L56  
Consists of saw and chopper.
- 44367 SHAPIRO, M. I. Sawmills should meet needs of consumers. (In Russian.) Les 4(3): 32-35. May/June 1948. 99.81 L563  
U. S. S. R.

## WOOD TECHNOLOGY

- 44368 ARIES, R. S. The utilization of wood waste. Wood Prod. 54(4): 45-49. Apr. 1949. 99.82 W856
- 44369 ARIES, R. S. Wood utilization research points out waste problems. I. Wooden Box and Crate 11: 11-14. 1949. 99.82 W857
- 44370 CAMPREDON, J. L'hydrolyse du bois. Bois 66(7): 1, 3. Apr. 10/15, 1949. 99.82 B632
- 44371 CAMPREDON, J. Techniques du bois. Bois 66(4): 1, 3. Feb. 25/28, 1949. 99.82 B632
- 44372 CARTER, R. M. Byproducts from mill waste. Vt. Wood Prod. Conf. Rpt. 8: 7-18. Ref. 1948. 99.9 V594
- 44373 HARRIS, E. E., and KLINE, A. A. Hydrolysis of wood cellulose with hydrochloric acid and sulfur dioxide and the decomposition of its hydrolytic products. J. Phys. & Colloid Chem. 53: 344-351. Mar. 1949. 381 J822
- 44374 KINN, T. P., and KIRBY, R. E. El caldeo dieléctrico en los artículos de madera. Hacienda 44(4): 40-41, 83. Apr. 1949. 6 H11

## Preservative Treatment

- 44375 ALLIOT, H. Aperçu sur la protection chimique des grumes fraîchement abattues. Bois et Forêts des Trop. 2: 427-433. Fourth Quart. 1948. 99.8 B632
- 44376 ALLOUARD, P. La protection du bois contre les termites et la pourriture par des procédés simples et peu coûteux. Bois et Forêts des Trop. 2: 415-426. Fourth Quart. 1948. 99.8 B632
- 44377 BJÖRKMAN, E. Storage-decay in saw-timber and pulpwood in Sweden. (Abs.) Internat. Cong. Microbiol. Rpt. Proc. (1947) 4: 397-398. 1949. 442.9 In83
- 44378 BOND, W. R. 34-year-old creosoted piles salvaged for re-use. Wood Preserv. News 1949: 25-27, 36. Mar. 1949. 500.8 W853
- 44379 BROWNE, F. L. Water-repellent preservatives for wood. Architect. Rec. 105(3): 131-132, 174. Mar. 1949. 296.8 Ar23
- 44380 COKLEY, K. The use of borax as a lyctusicide in the treatment of susceptible timbers. Austral. Timber J. 14: 734, 737-738, 745, 747, 749, 751. Dec. 1948. 99.81 Au7
- 44381 EDMONDSON, C. H. Reaction of woods from South America and Caribbean areas to marine borers in Hawaiian waters. Caribbean Forester 10: 37-41. Jan. 1949. 1.9622/T2C23  
Text in English and Spanish.
- 44382 HECKL, R. Holzschutz. Österr. Landtechnik 2: 36-38. Feb. 1949. 58.8 L236
- 44383 KOKKINIS, J. The impregnation plant of S.E.K. in Katerini. (In Greek.) Dasos 2(5): 47-51. 1948. 99.8 D262
- 44384 MANN, R. H. Good design and chemical treatment give long life to wood waterfront structures. Civil Engin. 19(4): 22-26, 80. Apr. 1949. 290.8 C49
- 44385 PERSECHINI, O. L. Preservación química de la madera. Hacienda 44(4): 79. Apr. 1949. 6 H11
- 44386 PROKOPP, S. Neuere ergebnisse der holzimpregnierung. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 181-190. Ref. 1948. 105.9 V67J
- 44387 ROBINSON, U. M. Laboratory techniques for wood preservative evaluation. South Lumberman 178 (2233): 78. Apr. 15, 1949. 99.81 So82
- 44388 SALLENAVE, P. La protection des grumes de limbo [Terminalia superba] après abatage. Bois et Forêts des Trop. 2: 434-440. Fourth Quart. 1948. 99.8 B632

- 44389 SAVING wood; for a few cents the new preservatives protect farm wood structures and fence posts from termites and decay. Farm Q. 4: 80-83, 133-136. Spring 1949. 6 F22995
- 44390 SEILER, J. F. Timber foundation piles support 60 to 80-ton test loads. Wood Preserv. News 27(2): 13-17, 23-24. Feb. 1949. 300.8 W853
- 44391 SERS, J. La conservation des bois. Rustica 22: 275. Apr. 3, 1949. 14 R92
- 44392 SHACKLETON, P. Beat marine borer menace one aim Gov't Forest Lab. Woodland World 2(3): 10. Mar. 1949. 99.8 W853
- 44393 STACEY, W. A. 35 or more years' life indicated for 6-lb. creosoted wood posts. Wood Preserv. News 1949: 44-46, 49-50. Apr. 1949. 300.8 W853
- 44394 VERRALL, A. F. Protection of green forest products from fungus damage. Forest Farmer 8(7): 4, 10. Apr. 1949. 99.8 F7692
- 44395 WALTERS, C. S. A method of analyzing the penetration of light-colored oil-soluble wood preservatives. Ill. Agr. Expt. Sta. Forestry Note 1, 1 p. Nov. 9, 1948. 99.9 IL62
- 44396 WALTERS, C. S., and KULP, D. A. The seasoning and cold-soak preservative treatment of water tupelo fence posts. Ill. Agr. Expt. Sta. Forestry Note 5, 2 p. Feb. 17, 1949. 99.9 IL62
- 44397 WEBSTER, J. How to stop rot. Better Homes & Gard. 27(8): 250-254. Apr. 1949. 80 F9424  
Prevention of wood rot about the house.

## Properties and Structure

- 44398 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Fibre structure in relation to the preparation of groundwood pulps from Eucalyptus regnans F.v.M., by H. E. Dadsweil and F. V. Griffin. South Melbourne, 1948. 18 p. (Sub-proj. W.S. 2-7, Prog. Rpt. 1) 302 Au7
- 44399 ERICKSON, H. D. Relation of specific gravity to shrinkage and of these factors to growth in yellow poplar. J. Agr. Res. 78: 103-127. Mar. 1/15, 1949. 1 Ag84J
- 44400 JANE, F. W. Histology of wood. V-VI. Timber News 57: 97-98, 136, 139-140. Mar.-Apr. 1949. 99.81 T482
- 44401 NORMAND, D. Note sur les bois de Dacryodes et de Santiria africains. Bois et Forêts des Trop. 2: 399-402. Fourth Quart. 1948. 99.8 B632
- 44402 ÖGLAND, N. J. The swelling and shrinkage of hardboard. 2. (In Swedish.) Suomen Paperi- ja Puutavaralehti 31: 57-60. Feb. 28, 1949. 302.8 P1991  
English summary.
- 44403 PALMER, E. L. Wood. N. Y. Agr. Col. Ext. Cornell Rur. School Leaflet 42(3), 32 p. Winter 1948/49. 275.29 N48R  
Chiefly properties.
- 44404 PETERSON, R. W. The dielectric properties of wood. Canad. Woodworker 49(3): 35, 68. Mar. 1949. 99.82 C162  
Also in Brit. Columbia Lumberman 33(3): 99-100. Mar. 1949. 99.81 B77
- 44405 RADOK, J. R. M., SILBERSTEIN, J. P. O., and WILLS, H. A. A new theory for the strength of wooden box beams. Melbourne, 1948. 37 p. (Australia. Council Sci. and Indus. Res. Aeronaut. Res. Rpt. ACA-40) 99.79 R11
- 44406 SKAAR, C. The dielectrical properties of wood at several radio frequencies. N. Y. State Col. Forestry, Syracuse Tech. P. 69, 36 p. Ref. Dec. 1948. 99.9 N486B
- 44407 STAMM, A. J., and TARKOW, H. Wood, a limited-swelling gel. J. Phys. & Colloid Chem. 53: 251-260. Feb. 1949. Ref. 381 J822
- 44408 WERREN, F. Fatigue of sandwich constructions for aircraft; cellular cellulose acetate core material with aluminum or fiberglass-laminate facings, tested in shear. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1559-F, 7 p. Dec. 1948. 1.9 F761R
- 44409 WESTERN PINE ASSOCIATION. Douglas fir of the western pine region; its properties, uses and grades. Portland, Oreg., 1948. 52 p. (A.I.A. File 19) 99.79 W522D
- 44410 WESTERN PINE ASSOCIATION. Larch of the western pine region; its properties, uses and grades. Portland, Oreg., 1948. 52 p. (A. I. A. File 19) 99.79 W522L



44411 WESTERN PINE ASSOCIATION. White fir of the western pine region; its properties, uses and grades. Portland, Oreg., 1948. 56 p. (A.I.A. File 19) 99.79 W522W

#### Seasoning, Conditioning, and Finishing

44412 ADAMS, W. Dry kiln operators' ABC's. Wood [Chicago] 4(2): 26-27, 42. Feb. 1949. 99.82 W859

44413 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. The seasoning and utilization of 1-inch thick red gum, by G. W. Wright and G. S. Campbell. South Melbourne, 1948. 11 p. (Sub-proj. S. 6-8, Expt. S. 6-8-Y-7) 300 Au7Se

44414 BARAKS, A. M. Problem of determining the time for air drying of assortments of thick wood. (In Russian.) Lesn. Promysh. 8(9): 12-13. Sept. 1948. 99.82 L56

44415 DEVINE, J. Most misunderstood simple drying facts. Natl. Hardwood Mag. 23(3): 53, 73. Apr. 1949. 99.81 N212

44416 DICKINSON, F. E. Drying defects and their effect on lumber quality. South. Lumber J. 53(4): 38, 40, 92. Apr. 10, 1949. 99.81 So8

44417 JAPANESE lacquerwork. Wood [London] 14: 68-70. Mar. 1949. 99.82 W855

44418 MANSELL, R. Some facts about the proper finishing of solid furniture woods. Wood Prod. 54(4): 33-34, 36. Apr. 1949. 99.82 W856

44419 MILLER, D. G. Seasoning wood by dielectric heating. Timber News 57: 103-104, 109, 151. Mar.-Apr. 1949. 99.81 T482

44420 RYAN, G. The finish counts! Ariz. Agr. Col. Ext. C. 149, 16 p. Feb. 1949. 275.29 Ar42

44421 STEVENS, W. C. The effect of piling on the distortion of timber. (Abs.) Timber News 57: 148, 151. Apr. 1949. 99.81 T482

44422 TIEMANN, H. D. The kiln-drying of lumber. South. Lumberman 178(2233): 84-85, 88. Apr. 15, 1949. 99.81 So82

44423 TORGESON, O. W. Effect of yard-piling methods and salt treatment on checking of 5/4 red oak lumber. South. Lumberman 178(2232): 38, 40, 42, 44, 46. Apr. 1, 1949. 99.81 So82

44424 TURNER, T. Factors that influence the cost of kiln drying. Vt. Wood Prod. Conf. Rpt. 8: 19-21. 1948. 99.9 V594

Includes discussion.

44425 WAMPLER, R. H. Solving finishing problems. II. Wood [Chicago] 4(4): 24, 50-52. Apr. 1949. 99.82 W859

#### FOREST PRODUCTS

44426 ANTOINE, S. Pourquoi? Bois et Scieries 55: 173-174. Feb. 17, 1949. 99.81 B632

Mine timbers.

44427 BOKIL, O. B. Means of economizing on timber in the mines of the Donets Basin. (In Russian.) Les 4 (3): 36-43. May/June 1948. 99.81 L563

44428 CHAVES, J. M., and PECHNIK, E. An anti-oxidant found in cork. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 231-236. 1948. 389.9 R47

44429 CLARKE, H. R. Tie renewal reductions conserving U. S. timber resources, labor and money. Cross Tie B. 30(4): 36-37. Apr. 1949. 99.82 C87

44430 COUPAL, L. Les produits de l'érable. Foyer Rural [Montréal] 8(6): 17, 22. Mar. 1949. 7 F83

44431 ENKVIST, T. Lubricating oil from pine tar and tall oil. Experiments by Pentti Asikainen, Erkki Priha and Henrik Paersch. 4. (In Swedish.) Suomen Paperi- ja Puutavaraletti 31: 44-47, 61-68, 75. Ref. Feb. 15, 1949. 302.8 P1991

English summary.

44432 EPPERSON, W. Show them the right way to cut ties. Cross Tie B. 30(3): 7-8, 22. Mar. 1949. 99.82 C87

44433 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Yearbook of forest products statistics. Annuaire statistique des produits forestiers, 1948. Washington, 1949. 206 p. 99.9 Y3

44434 HAY, W. W. Alaskan railroad tie renewals in rehabilitation running high. Cross Tie B. 30(4): 7-9. Apr. 1949. 99.82 C87

44435 HAYCOCK, A. H. Spindle moulder methods. Wood [London] 14: 89-92. Mar. 1949. 99.82 W855

44436 HUEY, B. M. Christmas tree shipments increase. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 71, 6 p. Jan. 1949. 1.9622 N3R31

44437 HYLER, J. E. Straightening bowed boards at the handfeed jointer. Natl. Hardwood Mag. 23(3): 47-49, 90. Apr. 1949. 99.81 N212

44438 HYLER, J. E. The turning question. 3. Wood [Chicago] 4(2): 32, 54, 56. Feb. 1949. 99.82 W859

44439 LANE, R. D., and FASSNACHT, D. L. Young pine plantation thinnings yield merchantable products. U. S. Forest Serv. Central States Forest Expt. Sta. Note 51, 2 p. Dec. 1948. 1.9 F76252S

44440 LOCKE, E. G. Using wood residues to manufacture feed. Chemurg. Digest 8(4): 12-13. Apr. 1949. 381 N213Na

44441 MCINTIRE, S. H. Machining of wood in Vermont. Vt. Wood Prod. Conf. Rpt. 8: 4-6. 1948. 99.9 V594

44442 MORGAN, J. T. The production of wood chips for coarse fiber in the Central States region. U. S. Forest Serv. Central States Forest Expt. Sta. Tech. Paper 111, 31 p. Feb. 1949. 1.9622 C3T222

44443 MUELLER, L. A. Cottonwood railway tie test completed. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 67, 2 p. Dec. 1948. 1.9622 N3R31

44444 ØDEGAARD, N. The Norwegian wallboard industry 1948. Norsk Skogindustri. 3: 11. Jan. 1949. 99.82 N81

44445 PEREZ COURIE, S. La madera. Agr. Austral 14: 7543-7545. Dec. 1948. 9.3 Ag842

Treatment and uses.

44446 PETROV, B. S. What type of production must the wood-using industry give. (In Russian.) Les 4(3): 28-31. May/June 1948. 99.81 L563

44447 SCHRODER, W. Volkseigene betriebe in der holzindustrie. Forstw., Holzw. 2: 333. Nov. 1, 1948. 99.8 F7793

44448 SLIFKO, C. W. 1948 cross tie exports 50 per cent below 1947. Cross Tie B. 30(4): 10-11. Apr. 1949. 99.82 C87

44449 SLUZALIS, L. L. Supply of cross ties increasing in Fristoe Unit of Clark Forest. Cross Tie B. 30(3): 12, 14, 16. Mar. 1949. 99.82 C87

44450 TKATCHENKO, B. Le sucre de palme du Cambodge. Agron. Trop. 3: 563-593. Ref. Nov./Dec. 1948. 26 Ag86

44451 TURLEY, C. D. Future timber supply for ties problem, and how to meet it. Cross Tie B. 30(4): 16, 18, 22, 37. Apr. 1949. 99.82 C87

44452 VON SCHRENK, H. How treatment, plates, heavier rail reduced tie renewals in 50 years. Cross Tie B. 30(4): 12-13. Apr. 1949. 99.82 C87

44453 WHITE, R. B. The Bureau's activities. VI. Wood Prod. Conf. Rpt. 8: 27-28. 1948. 99.9 V594

Vermont Bureau of Industrial Research.

#### Building Construction

44454 BERTHAUME, M. Le bois et la construction aéronautique. II. Bois Natl. 19: 428. Nov. 15, 1948. 99.81 B63

44455 BROSENIUS, H. Can we afford not to build wooden houses? (In Swedish.) Svensk Trävaru-Tidn. Svensk Pappersmassetidn. 1949: 191-192, 195-199. 99.81 Sv22

44456 IRVIN, D. B., and JOHNSTON, D. R. Lignum vitae in shipbuilding. Wood [London] 14: 74-76. Mar. 1949. 99.82 W855

44457 KETCHUM, V. Design of glued laminated structural members. Timber News 57: 92, 95-96, 98, 152-154. Mar.-Apr. 1949. 99.81 T482

44458 REECE, P. O. Timber connectors. Timber Devlpmt. Assoc. Construct. Res. B. 1, 6 p. 1948. 99.9 T48C

44459 SILVESTER, F. D. Timber engineering in roofing. Wood [London] 14: 77-79. Mar. 1949. 99.82 W855

44460 VAUX, H. J., and MAY, R. H. A regional study of lumber use in housing. J. Forestry 47: 260-264. Apr. 1949. 99.8 F768



44461 WEST, P. Experimentos con maderas tropicales de construcción. Montes 4: 526. Nov./Dec. 1948. 99.8 M763

Also in Campo [La Paz] 3(21): 48-50. Jan. 1949. 9.1 C15

#### Charcoal

44462 ARIES, R. S. A movable wood distillation unit. Chemurg. Digest 8(4): 7-9. Apr. 1949. 381 N213Na

44463 GLADES, K. Wood makes the car go. Wood [Chicago] 4(4): 26, 42-43. Apr. 1949. 99.82 W859

44464 LANTELME, W. Und wieder rauchen die meiler. Forstw., Holzw. 2: 358-359. Dec. 1, 1948. 99.8 F7793

44465 LOURBOPOULOS, G. Research on the charcoal of the forest tree species of Greece. (In Greek.) Dasos 2(5): 5-13. 1948. 99.8 D262

#### Containers

44466 MOOT, E. N. A cauliflower patch that helped create Catskill crate center. Barrel & Box & Packages 54(3): 9. Mar. 1949. 99.82 B27

44467 SALONE, J. Les emballages en bois. Rev. du Bois 4(3): 7-14, 26. Mar. 1949. 99.82 R32

44468 SARDO, W. H., JR. What's new in wood boxes and wood pallets in 1948. Wooden Box and Crate 11: 27-31. (Concl.) 1949. 99.82 W857

44469 SWEENEY, M. L. Barrels. Canad. Food Indus. 20(4): 37. Apr. 1949. 286.83 C166

44470 WAGNER, J. B. The heading jointer. Barrel & Box & Packages 54(3): 6-7. Mar. 1949. 99.82 B27

#### Cork

44471 MIEGE, E. Les diverses et nouvelles utilisations du liège. Inform. Maroc. 413: 1-2. Dec. 11, 1948. 281.8 In3

44472 NORMAND, J. Les résultats des premières ventes des lièges en Afrique du Nord: Tunis, Constantine, Oran. Bois et Scieries 55: 175-179. Feb. 17, 1949. 99.81 B632

44473 RIBAS, I., SEOANE, E., and NÓVOA, S. On the chemistry of cork. VI. (In Portuguese.) Ion 9(90): 3-9. Jan. 1949. 385 I66  
Bleaching.

#### Naval Stores

44474 KOSSENAKIS, C. The turpentine by acid solution spraying. (In Greek.) Dasos 2(5): 35-36. 1948. 99.8 D262

44475 MAZEK-FIALLA, K. Moderne harznutzung und forstwirtschaft. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 167-180. 1948. 105.9 V67J

44476 MAZEK-FIALLA, C. Un nouveau système de gemmage. Bois et Résineux 31(1489): 1. Mar. 20, 1949. 99.82 B63

44477 MOORE, W. H. Results from use of acid to prolong gum flow. Forest Farmer 8(7): 5, 10. Apr. 1949. 99.8 F7692

44478 RYBERG, M. E., BURNEY, H. W., and CLEMENTS, R. A new type of gutter for bark-chipped trees. Naval Stores Rev. 58(52): 14, 27. Mar. 26, 1949. 99.81 N22

#### Plastics

44479 STETSON, R. A. Crack fillers. Soap & Sanit. Chem. 25(3): 127-129, 131, 153. Ref. Mar. 1949. 307.8 So12

Includes wood products.

#### Pulp and Paper

44480 ARNST, A. Sawlogs barked to aid pulp production. South. Lumberman 178(2233): 62, 64. Apr. 15, 1949. 99.81 So82

44481 BICKELL, L. K. Sulphite pulping process described. Brit. Columbia Lumberman 33(3): 67-68, 130, 132, 134, 136. Mar. 1949. 99.81 B77

44482 CROSSLEY, T. L. Fungus infection in groundwood pulp. Pulp & Paper Mag. Canada 50(4): 85-86. Mar. 1949. 302 P96

44483 EVEREST, D. C. Problems confronting the American pulp and paper industry. Pulp & Paper Mag. Canada 50(4): 65-69. Mar. 1949. 302 P96

44484 FOOTE, J. E. Groundwood pulp. Paper Mill News 72(13): 39-40, 42, 84. Mar. 26, 1949. 302.8 P195

44485 FOWLER, R. M. Pulp and paper output \$800 million in 1948. Pulp & Paper Mag. Canada 50: 61-65. Jan. 1949. 302.8 P96

44486 GRAMACHO, D. Cellulose pulp. (In Portuguese.) Rev. de Quím. Indus. 18(201): 12-14. Jan. 1949. 385 R324

For paper manufacture.

44487 HOLLAND, W. W. The manufacture of groundwood for newsprint. Pulp & Paper Mag. Canada 50(4): 79-80. Mar. 1949. 302 P96

44488 HYTTINEN, A., and SCHAFER, E. R. The grinding of hardwoods. Pulp & Paper Mag. Canada 50: 82-90. Jan. 1949. 302.8 P96

44489 LYLE, A. The mechanical wood pulp industry 1948. Norsk Skogindus. 3: 7. Jan. 1949. 99.82 N81

44490 MAGRUDER, R. S. The use of a Roberts grinder for manufacturing different grades of groundwood. Pulp & Paper Mag. Canada 50: 91-96. Jan. 1949. 302.8 P96

44491 MARIETTI, J. W. Sobre las posibilidades de la industria del papel para diarios en la Argentina. Montes 4: 555-557. Nov./Dec. 1948. 99.8 M763

44492 MICHELET, C. F. The chemical pulp industry 1948. Norsk Skogindus. 3: 5-6. Jan. 1949. 99.82 N81

44493 PENNENKAMP, O. Verarbeitung von papier- und zellstoffgarnen. Melland Textilber. 30: 58-60. Feb. 1949. 304.8 T312

44494 RETTIE, J. C., and SIMMONS, F. C. Estimates of bark supply in the Northeast. Paper Trade J. 128(15): 21-23. Apr. 14, 1949. 302.8 P196

44495 ROLFSEN, R. The paper and board industry 1948. Norsk Skogindus. 3: 3-4. Jan. 1949. 99.82 N81

44496 SCHLEEF, M. L. The economics of fodder yeast from sulfite waste liquor. Wash. State Col. Bur. Econ. and Business Res. B. 7, 43 p. Sept. 1948. 280.9 W272

As feed.

44497 VAN DEN AKKER, J. A., and others. The nature of the colour change in groundwood. Pulp & Paper Mag. Canada 50(4): 87-92. Ref. Mar. 1949. 302 P96

H. F. Lewis, G. W. Jones, and M. A. Buchanan, joint authors.

44498 WELLS, S. D. The utilization of hardwood species in northern Michigan by manufacturing into pulp and paper. Paper Mill News 72(16): 10, 12. Apr. 16, 1949. 302.8 P195

44499 WETMORE, R. T., and DUNPHY, L. W. Groundwood—and the paper mill. Pulp & Paper Mag. Canada 50(4): 81-85. Mar. 1949. 302 P96

#### Tanning Material

44500 CHAMBARD, P., and ABADIE, F. Adoucissement de l'extrait de châtaignier. Assoc. Franç. des Chim. des Indus. du Cuir. B. 11: 36-43. Feb. 1949. 303.8 B87

44501 HILBERT, F. L. The technology of tanning: South African wattle bark. Leather & Shoes 117(9): 20-23. (Cont.) Feb. 26, 1949. 303.8 H53

44502 KUBELKA, V., and GLOŽIČ, B. A new modification of the Loewenthal method for the estimation of tannins. (In Czech.) Tech. Hlídka Koželužská 24: 51-57. Jan. 15, 1949. 303.8 T22

44503 WHITE, T. Solubility and other studies on quebracho tannin extract. Soc. Leather Trades' Chem. J. 33: 39-52. Ref. Feb. 1949. 303.9 So12

#### Veneers, Plywood, and Adhesives

44504 ANDERSON, I. V. Specifications for knotty western white pine veneer flitches. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 68, 1 p. Dec. 1948. 1.9622 N3R31

44505 ANDERSON, I. V. Specifications for western larch peeler logs. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 69, 2 p. Dec. 1948. 1.9622 N3R31

Its suitability for plywood.

44506 ANGELL, H. W. Pressure treatment eases the pressure on plywood. Wood [Chicago] 4(2): 20-21, 40. Feb. 1949. 99.82 W859

44507 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Gluing of solid specimens of slash and loblolly pines, by A. W. Rudkin and J. U. Barrie. South Melbourne, 1948. 9 p. (Proj. V.G.1, Sub-Projs. V.G.1-42 and V.G.1-47, Prog. Rpt. 1) 99.79 Au7G



44508 AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIV. OF FOREST PRODUCTS. Preliminary tests on cold mixed potato starch adhesives, by A. W. Rudkin. South Melbourne, 1948. 8 p. (Subproj. V.G.4-7, Prog. Rpt. 6, Expt. V.G.4-7/1: Rpt. 6) 309 Au7U

44509 BOOTH, F. L. Observed in custom plywood factories. *Veneers and Plywood* 43(4): 24, 26-27. Apr. 1949. 99.82 V55

44510 BULL, N. G. Plastics stretch the ply supply. *Wood* [Chicago] 4(3): 20-21, 45. Mar. 1949. 99.82 W859

44511 CANADA. BUR. OF STATISTICS. INDUSTRY AND MERCHANDISING DIV. FORESTRY SECT. Preliminary report on the veneers & plywoods industry in Canada, 1947. 1949. 11 p. 253 C332I

44512 DALLAS, J. E. The application of infra-red heating to the drying of veneers in the plywood industry. *West Coast Lumberman* 76(4): 92, 96. Ref. Apr. 1949. 99.81 W52

44513 HYLER, J. E. Drying green veneer. *Veneers and Plywood* 43(4): 34, 36-37. (Cont.) Apr. 1949. 99.82 V55

44514 HYLER, J. E. Technical aspects of redrying veneer. *Natl. Hardwood Mag.* 23(3): 71-73. Apr. 1949. 99.81 N212

44515 IACHAN, A. Glues for wood. (In Portuguese.) *Rev. de Quim. Indus.* 18(201): 16-19. Jan. 1949. 385 R324

44516 OKRETIC, B., and COLLARDET, J. La machine américaine dans la fabrication des panneaux contreplaqués. *Bois et Forêts des Trop.* 2: 403-414. Fourth Quart. 1948. 99.8 B632

44517 OTLIVANCHIK, A. N. Technology of the production of glued products. (In Russian.) *Lesn. Promysh* 8(9): 14-15. Sept. 1948. 99.82 L56

44518 PERRY, T. D. Tapeless veneer splicers. *Wood Prod.* 54(4): 39-40, 42-44. Apr. 1949. 99.82 W856

44519 POBLACIÓN, G. Something to know about plywood. *Forest Leaves* 3: 17, 19, 71, 73-75, 77-78. 1948/49. 99.8 P532

44520 STANLEY, G. W., JR. How to place electrodes; core plate defects. *Natl. Hardwood Mag.* 23(3): 69-70, 96. Apr. 1949. 99.81 N212

44521 TOWERS, W. K. Light-weight multi-ply construction. *Veneers and Plywood* 43(4): 12, 14. Apr. 1948. 99.82 V55

44522 WADSWORTH, B. B. Glue and gluing problems in modern production. *South. Lumberman* 178 (2232): 59-60, 62, 64, 66. Apr. 1, 1949. 99.81 So82

#### Wood as Fuel

44523 COUPPIS, T. A. Village fuel areas in Cyprus. *Empire Forestry Rev.* 28: 25-32. Mar. 1949. 99.8 Em72

44524 GEORGOPOULOS, A. The fuel problem with respect to the forest. (In Greek.) *Dasos* 2(5): 28-34. 1948. 99.8 D262

44525 HEERMANCE, E. L. The continued interest in wood fuel. *Conn. Woodlands* 14: 24-26. Mar. 1949. 99.8 C76

44526 JOUARD, P. Appareils de chauffage au bois. *Rev. du Bois* 4(3): 15-16. Mar. 1949. 99.82 R32

44527 LESCUYER. Le bois de chauffage, sa place dans notre économie. *Bois et Scieries* 55: 122-125. Feb. 3, 1949. 99.81 B632

44528 PIETTRE, M. L'exploitation rationnelle des bois de feu en forêt. *Bois et Scieries* 55: 226-229. Mar. 3, 1949. 99.81 B632

44529 SCHRÖDER, W. Wer ist der schuldige? *Forstw., Holzw.* 2: 350-351. Dec. 15, 1948. 99.8 F7793  
Use of valuable wood for fuel.

#### MISCELLANEOUS

44530 BALL, H. E. In defense (not praise) of the swivel chair forester. *J. Forestry* 47: 311-312. Apr. 1949. 99.8 F768

44531 BANKS, W. J. Aussie city girls plant 1,500 acres. *Woodland World* 2(3): 1. Mar. 1949. 99.8 W853

44532 BASER, N. Arbor Day 1949. *Amer. Forests* 55(4): 18-22. Apr. 1949. 99.8 F762

44533 BITTERLICH, E. Vom fachkönnen unserer forstarbeiter. *Allg. Forst- u. Holzwirtschaft.* Ztg. 59: 190-192. Dec. 1948. 99.8 AL53

44534 DESFARGES, P. Notre équipement électrique ruinerait-il une partie de nos forêts? *Bois et Scieries* 55: 222-223. Mar. 3, 1949. 99.81 B632

44535 DESFARGES, P. La revalorisation des loyers vue par les ouvriers du bois. *Bois et Scieries* 55: 203-204. Feb. 24, 1949. 99.81 B632

44536 DUBRET, R. Mise au point. *Bois et Scieries* 55: 221-222. Mar. 3, 1949. 99.81 B632  
Wages.

44537 EMPIRE FORESTRY ASSOCIATION. Annual report, 1947. London, 1948. 3 p. 99.9 Em72A

44538 ENDERS, E. Der wald in der barockmalerei. *Forstw., Holzw.* 2: 327-329. Nov. 1, 1948. 99.8 F7793

44539 ENDERS, E. Der wald in der malerei des rokokos. *Forstw., Holzw.* 2: 359-360. Dec. 1, 1948. 99.8 F7793

44540 ENDERS, E. Der wald in der niederländischen malerei des XVII. Jahrhunderts. *Forstw., Holzw.* 2: 344-346. Dec. 15, 1948. 99.8 F7793

44541 HOERNLE. Grundsätzliches zur frage der demokratischen personalpolitik im forstwesen der sowjetischen besatzungszone. *Forstw., Holzw.* 2: 197-199. July 1, 1948. 99.8 F7793

44542 HOOS. Zum neuen tarifvertrag für die forstwirtschaft. *Forstw., Holzw.* 2: 354. Dec. 1, 1948. 99.8 F7793

44543 HUBERMAN, M. A. Forests in ferment. III. *Amer. Forests* 55(4): 24-26. Apr. 1949. 99.8 F762

44544 HVOSLEF, O. Sønsterud - a center for Norwegian forestry. (In Norwegian.) *Tidsskr. for Skogbruk* 56: 310-312. Nov./Dec. 1948. 99.8 T432

44545 INDIA. FOREST RESEARCH INSTITUTE. Forest research in India, 1945-46. II. Reports for Burma and Indian Provinces. Simla, 1948. 122 p. 99.9 In23

44546 IRAZAZÁBAL JAQUETOT, J. DE. San Francisco de Asis, patrono de los forestales. *Montes* 4: 521-522. Nov./Dec. 1948. 99.8 M763

44547 KIRSCHFELD, P. Tradition und fortschritt in der forstwirtschaft. *Allg. Forstz.* 3: 145-148. Aug. 1, 1948. 99.8 AL52

44548 LECLÈRE, A. Contrat de bûcheronnage et allocations familiales. *Bois* 66(7): 1, 3. Apr. 10/15, 1949. 99.82 B632

44549 LUNGO, A. DEL. Tests of reforestation camps. (In Italian.) *Terra e Sole* 80: 113-115. Apr. 1949. 16 T273

44550 MOLTESEN, P. Impression of Norwegian forest technology. (In Danish.) *Dansk Skovfor. Tidsskr.* 34: 49-83. Feb. 1949. 99.8 D23

44551 NORMAND, J. Les forestiers française en Allemagne. *Bois et Scieries* 55: 131. Feb. 3, 1949. 99.81 B632

44552 OXFORD UNIVERSITY. IMPERIAL FORESTRY INSTITUTE. Twenty-fourth annual report 1947-48. 1949. 24 p. 99.08 Ox23

44553 PEREZ, G. S. Arbor Day. *Forest Leaves* 3: 5-6. 1948/49. 99.8 P532

44554 PFALZGRAF. Demokratische personalpolitik. *Forstw., Holzw.* 1: 267-268. Dec. 1/15, 1947. 99.8 F7793

44555 ROTTIN, B. Ceux qu'on oublie: les vieux travailleurs de la corporation du bois. *Bois et Scieries* 55: 115. Feb. 3, 1949. 99.81 B632

44556 SAMUELSON, E. Labor in forestry; a current and important problem. (In Swedish.) *Skogsägaren* 25: 50-53. Mar. 1949. 99.8 Sk55

44557 SCHIPPEL. Nochmals zu "demokratische personalpolitik." *Forstw., Holzw.* 2: 195-197. July 1, 1948. 99.8 F7793

44558 SULIT, C. Why conserve our forests? *Forest Leaves* 3: 9-10. 1948/49. 99.8 P532

44559 U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. Annual report, 1948. Portland, Oreg., 1949. 51 p. 1.9622 P2An7

44560 U. S. FOREST SERV. SOUTHERN FOREST EXPERIMENT STATION. Twenty-eighth annual report, 1948. New Orleans, 1949? 92 p. 1.9 F7624

44561 VEEN, B. Der klassenkampf in der forstwirtschaft. *Forstw., Holzw.* 2: 321-323. Nov. 1, 1948. 99.8 F7793

44562 WADSWORTH, F. H., and SOLÍS, E. Population and employment problems in the Toro Negro Forest. *Caribbean Forester* 10: 59-68. Jan. 1949. 1.9622 T2C23

Text in English and Spanish.



- 44563 WARD, J. D. U. Canadian trees big factor in expanding U. K. forests. *Woodland World* 2(3): 9. Mar. 1949. 99.8 W853
- 44564 WILLIAMS, R. A. FFA and 4-H forestry projects. *Better Farming Methods* 21(5): 20, 52. May 1949. 58.8 B46

#### Education

- 44565 BESLEY, L. Training men to grow the new forest. *Forestry Chron.* 25: 34-39. Mar. 1949. 99.8 F7623
- 44566 GALLARDO HERNÁNDEZ, L. Proyecto de cooperación de la Escuela Rural en la Campaña de Reforestación Nacional. *Mensajero Forest.* 7(61): 10-11. (Concl.) Jan. 1949. 99.8 M522 Mexico.
- 44567 GARLAND, H. Do educational facilities meet wood industry's needs? *Wood [Chicago]* 4(2): 30, 44, 46, 48. Feb. 1949. 99.82 W859
- 44568 HERBERT, P. A. General education for students of forestry. *J. Forestry* 47: 309-310. Apr. 1949. 99.8 F768
- 44569 PATRONSKY, L. A. Michigan. *Wood [Chicago]* 4(4): 32, 46-49. Apr. 1949. 99.82 W859
- Wood Technology courses at the University of Michigan.
- 44570 SHAW, R. W. Why not start a school demonstration forest? *Prog. Farmer, Car.-Va.* Ed. 64(3): 30-31. Mar. 1949. 6 P945

#### Forest Engineering

- 44571 BITTERLICH, E. Betrachtungen zum forstlichen brückenbau. *Allg. Forst- u. Holzwirtschaft. Ztg.* 60: 57-59. Apr. 1949. 99.8 AL53
- 44572 LURZER, F. Entwicklung und abbau von geschlebeherden an wildbächen. *Allg. Forst- u. Holzwirtschaft. Ztg.* 60: 37-41. Mar. 1949. 99.8 AL53

#### Forest Influences

- 44573 ARRIGHI, A. A. El bosque y la tierra. *Campo y Suelo Argentino* 32(387): 65-67. Jan. 1949. 9 C15
- 44574 FILLEY, W. O. The role of forestry in conservation. *Conn. Woodlands* 14: 20-21. Mar. 1949. 99.8 C76
- 44575 GOMES, P. At the border of the forest. (In Portuguese.) *Brasil Açucareiro* 32: 484-488. Nov. 1948. 65.8 B73
- Forest influences.
- 44576 MONTIEL PINILLA, F. El problema forestal de la Cuenca del Segura en su relación con las inundaciones. *Montes* 4: 527-533. Nov./Dec. 1948. 99.8 M763
- 44577 TORRES, A. Importancia de los bosques. *Suelo Tico* 1: 391-394. Dec. 1948. 8 Su2

#### Wildlife

- 44578 BESTUM, R. How to combine wildlife care with efficient forest management. (In Norwegian.) *Tidsskr. for Skogbruk* 56: 297-300. Nov./Dec. 1948. 99.8 T432

#### ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

#### BREEDS AND BREEDING

- 44579 AMSCHLER, J. W. Autonome und konditionelle gene. *Bodenkultur* 2: 54-63. Ref. 1948. 19 B635 In livestock.
- 44580 CANTARELLI, M. Why artificial insemination centers were started. (In Italian.) *Avvenire Agr.* 57: 1-3. Jan. 1949. 16 Av9
- 44581 CONGRESSO INTERNAZIONALE DI FISIOLOGIA DELLA RIPRODUZIONE ANIMALE E DI FECONDAZIONE ARTIFICIALE, 1, MILAN, 1948? Mostre zootecniche, bestiame, italiano presentato. Live-stock shows, Italian stock presented. Milano, 1948? 64 p. 40 C767

- 44582 DIERNHOFER, K. Einige rein praktische hinweise zur behandlung der besamungspipetten und zur besamungstechnik. *Wien. Tierärztl. Monatsschr.* 35: 241-244. May 1948. 41.8 T345
- 44583 EMIK, L. O., and TERRILL, C. E. Systematic procedures for calculating inbreeding coefficients. *J. Hered.* 40: 51-55. Feb. 1949. 442.8 Am3
- 44584 FARMER AND STOCK-BREEDER. Britain can breed it; live stock of the British Isles reviewed. London, 1949? 128 p. 40 F222
- 44585 GAMBERINI, P. Information on artificial insemination in the Province of Pesaro-Urbino. (In Italian.) *Zootec. e Vet.* 3: 803-824. Dec. 1948. 41.8 Z7
- 44586 GARCIA ALFONSO, D. C. Aplicación de la técnica quirúrgica y de inseminación artificial en la lucha contra la esterilidad de los animales domésticos. *Veterinaria* 13: 89-115. Feb. 1949. 41.8 V6429
- 44587 GIULIANI, R. The applications of genetics to zootechny. (In Italian.) *Riv. di Zootec.* 22: 3-6. Jan. 1949. 49 R52
- 44588 HAWKER, G. S. Breeding of stud stock. *So. Austral. Dept. Agr. J.* 52: 237-241. Dec. 1948. 23 So84
- 44589 KNOX, R. G. The responsibility of the pure bred breeder. *Shorthorn News* 10: 7-9. Mar. 1949. 43.8 Sh85
- 44590 KOLLER, R. Die bedeutung des hyaluronsäure-hyaluronidase-systems bei der inneren befruchtung der säugetiere. *Wien. Tierärztl. Monatsschr.* 35: 465-470. Ref. Sept. 1948. 41.8 T345
- 44591 KOLLER, R. Für und wider die künstliche befruchtung bei haustieren. *Wien. Tierärztl. Monatsschr.* 35: 236-241. May 1948. 41.8 T345
- 44592 KOLLER, R. Soll man befruchtung oder besamung sagen? *Wien. Tierärztl. Monatsschr.* 35: 353-354. July 1948. 41.8 T345
- 44593 LAHAYE. Introduction à la génétique appliquée aux grandes espèces domestiques. *Ann. de Méd. Vét.* 92: 260-269. Nov./Dec. 1948. 41.8 An78
- 44594 LOMNNITZ-WALDHOF. Rückblick auf 20 jahre künstliche besamung. *Kurzbriefe f. Ernähr. u. Landw.* 12, A III 1a, 4 p. (Concl.) Dec. 1948. 281.8 K96
- 44595 MALETTTO, F. On a new regulation for the artificial insemination of domestic animals. (In Italian.) *Zootec. e Vet.* 3: 735-737. Nov. 1948. 41.8 Z7 Italy.
- 44596 MATAMOROS Y PAVIA, E. O. Algunas experiencias sobre inseminación artificial. *Cuba. Min. de Agr. Rev. (ser. 6)* 31(2): 19-36. July/Dec. 1948. 8 Ag88Re
- 44597 MILLER, J. C. Livestock breeding investigations. (Sum.) *Tex. Livestock J.* 8(3): 6, 41. Mar. 15, 1949. 49 T29
- 44598 NAGEL, A. Zuchtwahl. *Kleintierzücht. Tierbörse* 3(52): 2. Jan. 25, 1949. 49 K672
- 44599 NETHERLANDS. CENTRALE COMMISSIE VAN TOEZICHT OP DE UITVOERING VAN DE KUNSTMATIGE INSEMINATIE IN NEDERLAND. Annual report, 1947, of the Central Commission for the Supervision and Performance of Artificial Insemination in the Netherlands. (In Dutch.) Utrecht, 1948. 68 p. 43.9 N38
- 44600 NIEFEBOCK, E. W. Ist inzucht schädlich? *Kleintierzücht. Tierbörse* 3(53): 8. Feb. 10, 1949. 49 K672
- 44601 OLSSON, B. The artificial insemination statement. Some observations. (In Swedish.) *Ladugården* 1949: 24-26. Jan. 1949. 44.8 L12
- 44602 PARISOT, C. La sélection animale est-elle possible dans un pays de montagne? *Action Lait. (n. s.)* 5(24): 1, 3. Feb. 5, 1949. 44.8 Ac8
- 44603 PESCE, A. Practical notes on animal reproduction. (In Italian.) *Allevatore* 5(3): 6. Jan. 16, 1949. 49 AL55
- Number of females for each male. Feeding and fecundity of animals. External characters and fertility in animals.
- 44604 QUAGLIA, F. Artificial insemination; the organization of centers in Italy. III. (In Italian.) *Coop. e Agr.* 31(13): 1. Apr. 2, 1949. 16 C78
- 44605 RAPS, G. R. The role of the veterinarian in an artificial insemination program. *Amer. Vet. Med. Assoc. J.* 114: 206-210. Apr. 1949. 41.8 Am3
- 44606 SANDERSON, C. J. A discussion about the effects of drought on the fertility of animals. *Land [Sydney]* 1956, i. e. 1946: 18. Feb. 18, 1949. 23 L22-



- 44607 SCHMIDT, R. Das inzuchtproblem. Wien. Tierärztl. Monatsschr. 35: 473-480. Oct. 1948. 41.8 T345
- 44608 SCHMIDT, R. Die moderne vererbungswissenschaft und ihr einfluss auf die tierzucht. Wien. Tierärztl. Monatsschr. 36: 7-15. Jan. 1949. 41.8 T345
- 44609 TORZO, A. Artificial insemination. (In Italian.) Agr. Trevisano 4(15): 4. Sept. 1948. 16 Ag8258
- 44610 U. S. R. NARODNYI KOMISSARIAT ZEMLE-DELIJA. Artificial insemination of farm animals in the Soviet Union; translated and compiled by J. S. Goode. Sydney, Angus and Robertson, 1948. 176 p. 40 Un37
- 44611 WILSON, E. Hybridizing, what is it? Amer. Small Stock Farmer 33: 9. Feb. 1949. 48.8 J82

## FEEDS AND FEEDING

- 44612 AID FOR BRITAIN NATIONAL COUNCIL. Hay & silage saved this farmer £450. n. p., 1948? sheet. 60.7 A12
- 44613 ARAUJO E SILVA, O. B. DE. Legumes on the livestock ranch. (In Portuguese.) Campo [Rio de Janeiro] 20: 27-28. Jan./Feb. 1949. 9.2 C15
- 44614 AUSTIN, F. L., and BORUFF, C. S. Some observations on vitamin B13 in distillers grain solubles. Conf. Feeds Grain Distill. Proc. 4: 77-82. 1949. 389.79 C765
- 44615 BARRIOS, E. P. A report on sun-drying of potatoes for stock feed in Nebraska. Amer. Potato J. 26: 82-85. Mar. 1949. 75.8 P842
- 44616 BASSANI, A. Silos for forage. (In Italian.) Avvenire Agr. 57: 28-30. Feb. 1949. 16 Av9
- Silage preparation.
- 44617 BECKERICH, A. Les journées du phosphore. I. L'alimentation du bétail. Rustica 22: 178. Feb. 27, 1949. 14 R92
- 44618 BERENDES, P. Die bedeutung und bereitung von silofutter. Landw. Wehnl. f. Westfalen u. Lippe 106: 70-71. Jan. 29, 1949. 18 L2346
- 44619 BEREZOVSKIĬ, A. A., and EGOROVA, M. F. Improving the ensilage of plants which have an inadequate sugar minimum. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(10): 24-27. 1948. 20 Akl
- 44620 BONADONNA, T., and USUELLI, F. Trattato di alimentazione razionale del bestiame [Treatise on the rational feeding of livestock]. Milano, Cisalpino, 1948. 2 v. 389.7 B643
- Contents: v. 1, Principles of feeding, by F. Usueli; v. 2, Forage and fodders, by T. Bonadonna.
- 44621 BONI, A. Pasturage in oak and chestnut groves. (In Italian.) Allevatore 4(49): 6. Dec. 5, 1949. 49 AL55
- 44622 BRAY, C. I. Blackstrap molasses; now widely used in livestock feeding it was once dumped into ditches as a "worthless by-product." Gulf Coast Cattleman 15 (2): 19-21. Apr. 1949. 43.8 G95
- 44623 CARDOSO, P. O. Rubber seed; its possibilities as a stock feed. Farm Forest 9: 19-20. Jan./June 1948. 24 F226
- 44624 CAREY, V. Drive home the one idea—a balanced feed program. Amer. Feed & Grain Dealer 33(2): 18-19. 49. Mar. 1949. 298.8 C83
- 44625 CARRICK, C. W. Report of research in progress on distillers' feeds. Conf. Feeds Grain Distill. Proc. 4: 116-118. 1949. 389.79 C765
- Also in Flour & Feed 49(11): 13. Apr. 1949. 298.8 F66
- 44626 CHARL, S. T., and PAI, P. A. Fish meal from shoaling fishes of the Madras Presidency and their role in animal nutrition. Indian Farming 9: 358-363. Sept. 1948. 22 In283
- 44627 COPE, C. Kudzu worked wonders and will for you. Prog. Farmer, Car.-Va. Ed. 64(3): 15. Mar. 1949. 6 P945
- Chiefly as feed.
- 44628 CORRIE, F. E. Feeding farm animals. 2-3. Fert., Feed Stuffs & Farm Supplies J. 35: 157-158, 189-190, 193. Mar. 23, Apr. 6, 1949. 57.8 F413
- 44629 CULLISON, A. E. The effect of stage of maturity and the addition of urea and cottonseed meal on the ensiling qualities of sweet sorghum and the feeding value of the silage. Urbana, Ill., 1948. 6 p. 60.7 C89
- Abstract of thesis—University of Illinois.
- 44630 DELAFORGE, O. L'alimentation des animaux au pâturage. Monit. Agr. 2(63): 4. Mar. 27, 1949. 14 M744
- 44631 ELLISON, W. The grazing animal. Westralian Farmers' Co-op Gaz. 15(365): 37-38. Jan. 1949. 280.28 W522
- 44632 ESPARZA TABARES, R. Proteínas, su metabolismo y contenido en algunos pastos y forrajes. Cuba. Min. de Agr. Rev. (ser. 6) 31(2): 56-59. July/Dec. 1948. 8 Ag88Re
- 44633 ETTINGER, B. Urea, poison or magic? Nebr. Farmer 91(6): 11, 63. Mar. 19, 1949. 6 N27
- In livestock nutrition.
- 44634 FERGUSON, W. S. The valuation of dried grass. Gt. Brit. Min. Agr. Agriculture 55: 517-522. Ref. Mar. 1949. 10 G79J
- 44635 FORD, K. D. Corn pasturing. Dak. Farmer 69(7): 1. Apr. 2, 1949. 6 D14
- 44636 FORSTMEIER, G. Milocorn, ein hochwertiges futtermittel. Deut. Viehhandel 4(2): 2. Jan. 31, 1949. 49 D482
- 44637 GARRIGUS, W. P. Grain and hay saving values of distillers feeds. Conf. Feeds Grain Distill. Proc. 4: 8-11. 1949. 389.79 C765
- 44638 GRAZIOSI, D. Watering domestic animals. (In Italian.) Coop. e Agr. 31(2): 1; (3): 1. Jan. 15-22, 1949. 16 C78
- 44639 HENKEL, H. Mohnschrot. Obst- u. Gartenbau 3: 74-75. Dec. 1, 1948. 80 Ob72
- 44640 HILL, O. J. Good pasture, filled silos, best bank account. Washcoegg 26(11): 8, 29. Apr. 1949. 47.8 W27
- 44641 HOWARD, R. W. Canned grass; farmers are "pasturing" their stock throughout the winter months by feeding ensiled grasses and legumes. Farm Q. 4: 49-51, 129-132. Spring 1949. 6 F22995
- 44642 HUGHES, J. S. Fundamentals of nutrition. Amer. Feed & Grain Dealer 33(2): 12, 47-48. Mar. 1949. 298.8 C83
- Livestock.
- 44643 HUGUES, J. Donnez à votre bétail une alimentation adaptée à chaque âge, à chaque espèce, à chaque production. Bouches du Rhone Agr. 22(998): 15. (Cont.) Mar. 15, 1949. 14 B662
- 44644 HUGUES, J. Donnez à votre bétail une alimentation adaptée à chaque espèce, à chaque âge, à chaque production. Bouches du Rhone Agr. 22(997): 7. (To be cont.) Mar. 1, 1949. 14 B662
- 44645 KEENER, H. A. Cobalt. Better Goatkeeping 4: 891. Mar. 1949. 40.18 B46
- Role in diet of goats, sheep, and cattle. Deficiency effects.
- 44646 KUROV, I. I., and BADIR'AN, G. G. Some geographical problems of grazing in the republics of Transcaucasia. (In Russian.) Voprosy Geog. 1948(10): 139-164. 1948. 331.8 V89
- 44647 LANGMEAD, P. I. How much silage can you feed? Farmers Weekly [London] 30(12): 53. Mar. 25, 1949. 10 F2226
- 44648 MAHNER, A. Sind selbststränkeanlagen rentabel? Allgäuer Bauernbl. 17: 131-132. Mar. 11, 1949. 18 AL53
- 44649 MAN, T. J. DE, and HEUS, J. G. DE. The carbohydrates in grass. I. The soluble carbohydrates. Rec. des Travaux Chim. des Pays-Bas 68: 43-50. Jan. 1949. 385 R24
- 44650 MARTINI. Etwas vom futterübenbau in Württemberg. Württemb. Wehnl. f. Landw. 116: 109. Feb. 26, 1949. 18 W96
- 44651 MATET, J., MONTAGNE, R., and BUCHY, A. Valeur alimentaire du tourteau de colza. Oléagineux 4: 145-154. Ref. Mar. 1949. 77.8 OL2
- 44652 MIÈGE, E. L'utilisation des sarments de vigne. Inform. Maroc. 410: 1, 4. Nov. 20, 1948. 281.8 In3
- Use as feed and fuel.
- 44653 MILLER, R. L. The place of citrus by-products in the feed industry. Citrus Indus. 30(3): 16-17, 22. Mar. 1949. 80 C49
- 44654 MINOR mineral elements in animal nutrition. Nutr. News B. 5(2), 4p. Apr. 1949. 389.78 N95
- 44655 MULLER, F. M. A microbiological method for the estimation of the digestibility of fodder cellulose and similar roughage by herbivorous mammals. (Abs.) Internat. Cong. Microbiol. Rpt. Proc. (1947) 4: 529-530. 1949. 442.9 In83
- 44656 NAEGELY, F. Molasses for grass silage. G. L. F. Week. Serv. Sched. 13(41): 1-2. Apr. 11, 1949. 280.28 G113W



- 44657 NEVILLE, A. Potatoes—the livestock feeder's standby. *Poultry* [London] 104: 111. Feb. 8, 1949. 47.8 P869
- 44658 NIEDERMEIER, R. P. Pea & corn cannery refuse for silage. *Canning Trade* 71(37): 8. Apr. 4, 1949. 286.83 T67
- 44659 OLIVE, J. P. L'emploi des hormones dans l'alimentation du bétail. *Bouches du Rhone Agr.* 22(997): 8. Mar. 1, 1949. 14 B662
- 44660 OLSON, L. V. Using beet residues for farm feeds. *Chemurg. Digest* 8(4): 14-15. Apr. 1949. 381 N213Na
- 44661 ORCUTT, E. P. It's feed, care now that will count. *Mont. Farmer-Stockman* 36(14): 8. Mar. 15, 1949. 6 M764
- Livestock that survived the cold winter in Montana.
- 44662 ORLA-JENSEN, S. On the identification of lactic acid bacteria, especially in silages. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 503-504. 1949. 442.9 In83
- 44663 PÉRUCHON, J. Nouvelle table de composition chimique des aliments, précédée d'une étude sur les besoins nutritifs des animaux d'après les méthodes américaines et françaises. *Marseille*, 1948. 41 p. 389.7 P43
- 44664 PESCE, P. A. The appetite and its variations among animals. (In Italian.) *Allevatore* 5(2): 6. Jan. 9, 1949. 49 AL55
- 44665 PESCE, P. A. The feeding of livestock must be rational. (In Italian.) *Allevatore* 5(1): 4. Jan. 2, 1949. 49 AL55
- 44666 PETTE, J. W. The effect of the addition of sugar and whey to grass silage on the flora of lactic acid bacteria. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 505. 1949. 442.9 In83
- 44667 REID, J. T. Relationship of nutrition to fertility in animals. *Amer. Vet. Med. Assoc. J.* 114: 242-250. (Concl.) *Ref. Apr.* 1949. 41.8 Am3
- 44668 RICHARD, O. Die beziehungen des beweglichen buttersäurebazillus (*Clostridium butyricum* Praz.) zum silofutter. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 522-524. 1949. 442.9 In83
- 44669 ROCCHETTI, G. The composition of almond meal and the digestibility of its proteins. (In Italian.) *Riv. di Agr. Subtrop. e Trop.* 42: 251-272. *Ref. Oct./Dec.* 1948. 26 Ag82
- English summary.  
For feed.
- 44670 RODON, J. M. El heno nuevo en la alimentación del ganado. *Cult. Mod.* 30: 126. Apr. 1947. 15 C89
- 44671 ROEREN-SCHOTTE, K. Warum möchte ich das gärfutter nicht mehr missen? *Landw. Wehnl. f. Westfalen u. Lippe* 106: 136. Feb. 19, 1949. 18 L2346
- 44672 ROGER, M. Comment utiliser les pommes de terre dans l'alimentation animale. *Agr. Prat.* 113: 68. Feb. 1949. 14 J82
- 44673 ROGERS, C. F. Silage in winter. *Farm & Home Res.* [Ohio Sta.] 34(256): 21-27. Jan./Feb. 1949. 100 Oh3S
- 44674 RUFF, E. W. Grain and hay saving values of distillers feeds. *Conf. Feeds Grain Distill. Proc.* 4: 12-15. 1949. 389.79 C765
- 44675 SCHAIBLE, P. J. Feed formulation with distillers feeds. *Conf. Feeds Grain Distill. Proc.* 4: 83-115. 1949. 389.79 C765
- Also in *Flour & Feed* 49(11): 12-13. Apr. 1949. 298.8 F66
- 44676 SCHMIDT, A. D., JR. Brewers yeast for animal feeds. *Chemurg. Digest* 8(4): 22-23. Apr. 1949. 381 N213Na
- 44677 SHEEHY, E. J. The place of maize in farm feeding. *Agr. Ireland* 6: 57, 59-60. Mar. 1949. 10.5 Ag8
- 44678 SIROTTI, L. Livestock nutrition; criteria for the evaluation and selection of livestock fodder. (In Italian.) *Riv. di Zootec.* 22: 22-27. (To be cont.) Jan. 1949. 49 R52
- 44679 SOTOLA, J. Recent research in nutrition (as it applies to the veterinary profession). *Kans. Vet. Med. Assoc. B.* 6(9): 2-4. Apr. 1949. 41.9 K133B
- 44680 SOYZA, D. J. DE., and SENEVIRATNE, J. I. Silage making at the Bata-ata Farm, Southern Province. *Trop. Agr.* [Ceylon] 104: 87-90. Apr./June 1948. 26 T751
- 44681 STREETER, C. P. Como aumentar el rendimiento de leche, grasa, carne, huevos y lana? *Campo y Suelo Argentino* 32(387): 18. Jan. 1949. 9 C15
- Use of thyroprotein and thiouracil.
- 44682 TERROINE, T. Valeur alimentaire de l'azote non protéique: urée, amides, ammoniac. *Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques* 3: 49-73. *Ref.* 1949. 389.8 An73
- Livestock nutrition.
- 44683 THOMAS, B., and WALKER, H. F. The inactivation of thiamin by bracken (*Pteris aquilina*). *Soc. Chem. Indus. J.* 68: 6-9. Jan. 1949. 382 M31
- Tests made after observation of bracken poisoning in cattle.
- 44684 THOMPSON, J. H. Monuments to waste. *Farmers Weekly* [London] 30(11): 47, 49. Mar. 18, 1949. 10 F2226
- Pit silage.
- 44685 TUSTIN, E. B., JR. Need for mineralized salt in livestock diets. *Natl. Butter & Cheese J.* 40(4): 36. Apr. 1949. 286.85 B98Bu
- 44686 UNDERWOOD, E. J. Hay or grain? *Westralian Farmers' Co-op Gaz.* 15(365): 5, 7. Jan. 1949. 280.28 W522
- As feed.
- 44687 VALENCIA M., M. La pulpa de café en la alimentación del ganado. *Soc. Antioqueña de Agr. B. Agr.* 350/351: 3007-3013. Aug./Sept. 1948. 9.4 So1
- 44688 WOODMAN, H. E. Ensilage, with particular reference to the A.I.V. process. *Gt. Brit. Min. Agr. Agriculture* 55: 513-517. Mar. 1949. 10 G79J
- 44689 WOODWARD, L. H. Experiences with grass silage. *Rural New-Yorker* 99: 250. Apr. 2, 1949. 6 R88
- 44690 ZIMMERMANN, G. Die beeinflussung der verdaulichkeit und verwertung des eiweisses in futtermitteln durch bestrahlung. *Chimia* 3: 57-64. Mar. 15, 1949. 385 C444

## VETERINARY MEDICINE

- 44691 AGATE, J. N., and others. Industrial fluorosis; a study of the hazard to man and animals near Fort William, Scotland. *London, H. M. Stationery Off.*, 1949. 131 p. (Med. Res. Council. Gt. Brit. Memo. 22) 391 Ag1
- G. H. Bell, G. F. Boddie, R. G. Bowler, M. Buckell, E. A. Cheeseman, T. H. J. Douglas, H. A. Druett, J. Gar-rad, D. Hunter, K. M. A. Perry, J. D. Richardson, and J. B. de V. Weir, joint authors.
- 44692 ALEGREN, A. On foot-and-mouth disease. (In Swedish.) *Ladugården* 1949: 49-50. Feb. 1949. 44.8 L12
- 44693 ALIKAEV, V. A., and LEONOV, N. I. Bor'ba s bolezniami zhivotnykh [Control of animal diseases]. *Moskva, Sel'khozgiz*, 1948. 229 p. 41 AL4
- 44694 ALLEN, P. R. Radiological facilities at Iowa State College. *Vet. Student* 11: 66-70. Spring 1949. 41.8 V6425
- 44695 AN APPRAISAL of parenteral sulfonamides. *Allied Vet.* 20(2): 9-12. Mar./Apr. 1949. 41.8 AL5
- 44696 ANIMAL DISEASES RESEARCH ASSOCIATION. Annual report and accounts for 1947-1948; summary of work in progress during 1947-48. *Gilmerton, Scotland, Moredun Inst.*, 1948? 19 p. 41.9 An5A
- 44697 ANGELUCCI, N. Reorganization of the veterinary services; competitions for administrative positions and the autonomy of the services. (In Italian.) *Prog. Vet.* 3: 367-368. Nov. 1/15, 1948. 41.8 P942
- Italy.
- 44698 ATTINÀ, S. Sanitary reforms. (In Italian.) *Prog. Vet.* 3: 371-375. Nov. 1/15, 1948. 41.8 P942
- Italy.
- 44699 BASSET, J. Vaccins anti-aphteux; à propos des expériences de Cortez sur le vaccin Belin. 3. *Acad. Vét. de France. B.* 22: 43-45. Jan. 1949. 41.9 R24
- 44700 BEAMER, R. J. Some needs of the profession. *Fort Dodge Bio-Chemic Rev.* 19(3): 11, 29-30. Winter 1949. 41.8 F772
- Veterinary medicine.
- 44701 BELL, J. F., WRIGHT, J. T., and HABEL, K. Rabies vaccine freed of the factor causing allergic encephalitis. *Soc. Expt. Biol. & Med. Proc.* 70: 457-461. Mar. 1949. 442.9 So1
- 44702 BHALERAO, G. D. Schistosomiasis in animals. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I.* Gen. 5: 1386-1393. *Ref.* 1948. 150 In822



- 44703 BISIO, A. Current salaries, allowances and financial pressures. (In Italian.) *Prog. Vet.* 3: 386-388. Nov. 1/15, 1948. 41.8 P942  
Veterinarians in Italy.
- 44704 BISIO, A. The integration of veterinary and zootechnical services in relation to the national economy. (In Italian.) *Prog. Vet.* 3: 368-370. Nov. 1/15, 1948. 41.8 P942  
Italy.
- 44705 BOUCKAERT, J. H. Traitement chirurgical de la hernie ombilicale dans les grandes espèces. *Rec. de Méd. Vét.* 124: 541-549. Ref. Dec. 1948. 41.8 R24
- 44706 BOUVIER, G. Ten years of foot-and-mouth disease control in Switzerland (1937-1947). (In Portuguese.) *Biológico* 14: 251-258. Nov. 1948. 442.8 B529
- 44707 BRASH, A. G. Producing immunity of stock from diseases. *Queensland Prod.* 30(30): 6-7. (To be cont.) Jan. 19, 1949. 23 Q35
- 44708 BRION, A. La France possède son institut de la fièvre aphteuse. *Rev. Agr. de l'Afrique du Nord* 47: 157-160. Mar. 11, 1949. 80 R326
- 44709 BRION, A. El Instituto Francés de Fiebre Aftosa. *Surco [Madrid]* 7(82): 22. Dec. 1948. 15 Su7
- 44710 BRÜNER, D. W., and MORAN, A. B. Salmonella infections of domestic animals. *Cornell Vet.* 39: 53-63. Jan. 1949. 41.8 C81
- 44711 BURNS, K. F., and MATUMOTO, M. Survey of animals for inapparent infection with the virus of Japanese B encephalitis. *Amer. J. Vet. Res.* 10: 146-149. Apr. 1949. 41.8 Am3A
- 44712 CIANI, G. The veterinary profession and animal industry. (In Italian.) *Prog. Vet.* 3: 388-391. Nov. 1/15, 1948. 41.8 P942
- 44713 CIFERRI, R., and REDAELLI, P. Histoplasmosis and related diseases in man and animals. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1252-1262. Ref. 1948. 150 In822
- 44714 DELAFORGE, O. Que faire en cas d'épidémie de fièvre aphteuse? *Monit. Agr.* 2(64): 4. Apr. 3, 1949. 14 M744
- 44715 DEMEIJ, A. L'avenir de notre élevage. I. Application de préparations à base d'hormones. *Action Lait.* (n. s.) 5(25): 5. Feb. 20, 1949. 44.8 Ac8
- 44716 DICKINSON, E. M. The sulfa drug against cecal coccidiosis. *Com. Rev.* 97(31, 1. e. 28): 17. Mar. 15, 1949. 286.8 C735
- 44717 DUFRENOY, J., and DUFRENOY, M. L. L'art vétérinaire dans les Mille et Une Nuits. *Rev. de Path. Compar.* 48: 585-587. Ref. Dec. 1948. 448.8 R326  
Therapeutic value of garlic and onion.
- 44718 DU PLESSIS, C. VON H. Livestock losses due to disease and drought. (In Afrikaans.) *Landbouweekblad* 30(1548): 39-40. Mar. 16, 1949. 24 L232
- 44719 DÜRRWAECHTER, Gefahr in verzug! *Deut. Viehhandel* 4(2): 3. Jan. 31, 1949. 49 D482  
Foot-and-mouth disease.
- 44720 EK, B., EULER, H. V., and HAHN, L. Zur kenntnis tierischer phosphatasen. III. *Svenska Vetenskapsakad. Arkiv för Kemi, Min. och Geol.* 26 A(9), 17 p. 1948. 385 Sv2
- 44721 FELSENFELD, O., GONZÁLEZ, L. M., and YOUNG, V. M. Salmonellae in domestic animals in Puerto Rico. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1412-1415. 1948. 150 In822
- 44722 FLORIO, R. Quelques considérations nouvelles sur les antihistaminiques de synthèse. *Rev. de Méd. Vét. [Toulouse]* 100: 57-75. Ref. Feb. 1949. 41.8 R32
- 44723 FLORIO, R. Sur le traitement tissulaire de Filatow. *Rev. de Méd. Vét. [Toulouse]* 100: 95-97. Feb. 1949. 41.8 R32
- 44724 FLÜCKIGER, G. Die bekämpfung der maul- und klauenseuche auf moderner grundlage. *Wien. Tierärztl. Monatsschr.* 35: 305-314. Ref. July 1948. 41.8 T345
- 44725 FLÜCKIGER, G. Die Internationale Organisation der Tierseuchenbekämpfung. *Wien. Tierärztl. Monatsschr.* 35: 509-517. Oct. 1948. 41.8 T345
- 44726 FLÜCKIGER, G. Les principes modernes de la prophylaxie de la fièvre aphteuse. *Ann. de Méd. Vét.* 93: 30-46. Ref. Jan./Feb. 1949. 41.8 An78  
Resolutions concernant l'uniformisation de la préparation du vaccin anti-aphteux (Office International des Epizooties).
- 44727 FLÜCKIGER, G. Vereinheitlichung der herstellungsmethoden für maul- und klauenseuchevakzine. *Wien. Tierärztl. Monatsschr.* 35: 37-40. Jan. 1948. 41.8 T345
- 44728 FRASER, A. The old and the new. III. Animal disease. *Young Farmer* 17: 69-70. Mar./Apr. 1949. 10 Y82
- 44729 FREI, W. Zur pathologie der misch- und sekundärinfektionen. *Schweiz. Arch. f. Tierheilk.* 91: 143-186. Ref. Mar. 1949. 41.8 Sch9
- 44730 FULVIO, C. Observations on the spread of foot-and-mouth disease and on the results of vaccination against it. (In Italian.) *Zooprofilassi* 3: 311-312. Nov. 1948. 41.8 Z72
- 44731 GAIER, R. Das Friedmannsche tuberkuloseheilmittel in der veterinärmedizin; betrachtungen zu Dr. med. W. Kröners "Tuberkulosestragödie." *Wien. Tierärztl. Monatsschr.* 35: 33-37. Jan. 1948. 41.8 T345
- 44732 GALLOWAY, I. A. Consideration of some important aspects of recent investigations on foot-and-mouth disease. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1374-1385. 1948. 150 In822
- 44733 GERSTNER, R. Nochmals "therapeutische betrachtungen zur pansenparese." *Wien. Tierärztl. Monatsschr.* 35: 67-71. Feb. 1948. 41.8 T345
- 44734 GHISLENI, P. Charge of unintentional homicide against the owner of a horse and the attendant veterinarian. Death of the groom who was treating the horse. (In Italian.) *Prog. Vet.* 3: 426-428. Dec. 1, 1948. 41.8 P942
- 44735 GILLIE, G. W. The outbreak of foot-and-mouth disease in Mexico. *Vet. Med.* 44: 196-203. May 1949. 41.8 M69
- 44736 GIROUD, P., and JEZIERSKI, A. Comportement de divers petits animaux à l'inoculation de virus aphteux O après passages alternés cobayes-lapins. *Soc. de Biol. Compt. Rend.* 142: 1474-1476. Dec. 1948. 442.9 P21
- 44737 GUILLÉN, P. Nuevos conceptos acerca de la reacción de fijación del complemento y nueva técnica para la práctica de dicha reacción. *Rev. de Sanidad Vet.* 3: 900-919. Dec. 15, 1948. 41.8 R3222
- 44738 HABEL, K., BELL, J. F., and WRIGHT, J. T. Benzene-inactivated rabies vaccine. *Soc. Expt. Biol. & Med. Proc.* 70: 455-457. Mar. 1949. 442.9 S01
- 44739 HADLEY, F. B. Principles of veterinary science. Ed. 4. Philadelphia, Saunders, 1949. 521 p. 41 H117
- 44740 HAIGLER, S. W. Veterinary ethics. *Amer. Vet. Med. Assoc. J.* 114: 191-193. Apr. 1949. 41.8 Am3
- 44741 HAMMERLER, W. Einige beobachtungen bei der sterilitätsbehandlung mit Retalon. *Wien. Tierärztl. Monatsschr.* 35: 282-284. June 1948. 41.8 T345
- 44742 HART, G. H. Endocrinology and its relation to reproduction. *Amer. Vet. Med. Assoc. J.* 114: 197-203. Ref. Apr. 1949. 41.8 Am3
- 44743 HECKE, F. Lehren des letzten maul- und klauenseuchenzuges. *Wien. Tierärztl. Monatsschr.* 35: 1-25. Ref. Jan. 1948. 41.8 T345  
Europe.
- 44744 HOFER, Die "landesbezirkstierärzte" in der Steiermark. *Wien. Tierärztl. Monatsschr.* 35: 187-189. Apr. 1948. 41.8 T345
- 44745 INDIANA VETERINARY MEDICAL ASSOCIATION. COMMITTEE ON SMALL ANIMALS. Report, 1948. *Vet. Med.* 44: 230. May 1949. 41.8 M69  
H. J. Magrane II, Chairman.
- 44746 INDIANA VETERINARY MEDICAL ASSOCIATION. LARGE ANIMAL COMMITTEE. Report. *Vet. Med.* 44: 221. May 1949. 41.8 M69  
C. R. Donham, chairman.
- 44747 INDIANA VETERINARY MEDICAL ASSOCIATION. PUBLIC RELATIONS COMMITTEE. Report. *Vet. Med.* 44: 234. May 1949. 41.8 M69  
O. C. Shockley, Chairman.
- 44748 JAHNEL, J. Einfache elektrische heizvorrichtung für die mikroskopische untersuchung von samenproben. *Wien. Tierärztl. Monatsschr.* 35: 301-303. June 1948. 41.8 T345
- 44749 JAUME, J. Las rabias. *Balearic Isl. Diputación Prov. B. de agr.* 53: 12-13. Feb. 1949. 15 B19
- 44750 JÍROVEC, O. Chemotherapy of coccidiosis. (In Czech.) *Časopis Českoslov. Vet.* 4: 41-42. Ref. Jan. 25, 1949. 41.8 C27



- 44751 JOHNSON, H. W., and others. Studies on johnin. VI. The relationship of the allergens of *Mycobacterium paratuberculosis*, *Mycobacterium tuberculosis* var. *avium*, *bovis*, and *hominis*, and *Mycobacterium phlei*. *Amer. J. Vet. Res.* 10: 138-141. Apr. 1949. 41.8 Am3A  
A. B. Larson, R. R. Henley, and A. H. Groth, joint authors.
- 44752 KIGIN, L. C. The business side of practice. *Vet. Med.* 44: 231-233. May 1949. 41.8 M69  
Notes from an address.
- 44753 KNAPPENBERGER, J. F. Professional problems. *M. S. C. Vet.* 9: 56-57. Winter 1949. 41.8 M582
- 44754 KOLESOV, S. G. L. S. Tsenkovskii (On the 65th anniversary of malignant anthrax vaccine utilization). (In Russian.) *Veterinariia* 25(11): 46-48. Nov. 1948. 41.8 V6426
- 44755 KONDE, W. N. Clinical report on pyrrolazote—a new antihistaminic drug. *North Amer. Vet.* 30: 241-243. Apr. 1949. 41.8 N812
- 44756 KORNILOV, V. Veterinary service on the collective farms [U. S. S. R.]. (In Russian.) *Interagra* 2: 366-368. 1948. 28 In825  
English summary.
- 44757 KOROPOV, V. M. Organization of the Moscow Veterinary Academy. (In Russian.) *Veterinariia* 25(11): 9-10. Nov. 1948. 41.8 V6426
- 44758 LANDIOL, E. Control of infectious diseases of livestock. The development of prophylaxis. (In Italian.) *Gaz. Agr. [Parma]* 2(17): 1. Apr. 24, 1948. 16 G255
- 44759 LIEGEOIS, F., and DERIVAUX, J. Alimentation et médecine. *Ann. de Méd. Vét.* 92: 280-296. Nov./Dec. 1948. 41.8 An78
- 44760 LIEOU, Y. C. Carriers of rabies virus. *Chin. Med. J.* 66: 694-699. Ref. Dec. 1948. 448.8 C44
- 44761 LUQUE, R. P. Litiasis. (Revisión). *B. Zootec.* 4: 231-242, 263-274, 301-309. Aug.-Oct. 1948. Ref. 41.9 S016
- 44762 MCCALLAM, J. A. The United States Army Veterinary Corps. *Vet. Student* 11: 76-81. Spring 1949. 41.8 V6425
- 44763 MCKEAN, W. T. A search for Bang's disease in N. D. deer. *N. Dak. Outdoors* 11(8): 10. Feb. 1949. 412.9 N815
- 44764 MARTINI, B. Raw penicillin by the internal route in veterinary medicine. (In Italian.) *Nuova Vet.* 24: 412-416. Dec. 15, 1948. 41.8 N922
- 44765 MASSIDDA, A. Antitubercular vaccination of livestock with live germs in excipient fat. (In Italian.) *Nuova Vet.* 24: 407-410. Dec. 15, 1948. 41.8 N922
- 44766 MATTOS, A. C. C. Rabies. (In Portuguese.) *Biológico* 14: 259-263. Nov. 1948. 442.8 B529
- 44767 MICHALKA, J. Der reticulo-endotheliale apparat. *Wien. Tierärztl. Monatsschr.* 35: 538-545. Nov. 1948. 41.8 T345
- 44768 MIGLIAVACCA, L. Practical instruments for veterinary cautery. (In Italian.) *Prog. Vet.* 4: 45-46. Jan. 30, 1949. 41.8 P942
- 44769 MOOSBRUGGER, G. A. Einige theoretische betrachtungen über die konzentration von maul- und klauenseuchevirus in aluminiumhydroxydvakzine. *Wien. Tierärztl. Monatsschr.* 35: 276-282. June 1948. 41.8 T345
- 44770 MORGAN, B. B., and HAWKINS, P. A. Veterinary helminthology. Minneapolis, Burgess, 1949. 400 p. Ref. 436 M822
- 44771 MOSKEY, H. E. Progress in proprietary veterinary medicinals. *Drug & Allied Indus.* 35(3): 20-23. Mar. 1949. 396.8 St2
- 44772 MUSSILL, J. Der gebrauch der cervixpinzette. *Wien. Tierärztl. Monatsschr.* 35: 223-224. May 1948. 41.8 T345
- 44773 MUSSILL, J. Osmosetherapie. *Wien. Tierärztl. Monatsschr.* 35: 170-171. Apr. 1948. 41.8 T345
- 44774 NIELSEN, A. The brucellosis vaccine. (In Danish.) *Tolvmandsbladet* 21: 58-60. Feb. 1949. 11 T58
- 44775 NIGERIA. VETERINARY DEPT. Annual report, 1947. Lagos, 1948. 35 p. 41.9 N56
- 44776 NORWAY. VETERINAERDIREKTØREN. Service vétérinaire 1947. (In Norwegian.) Oslo, 1949. 87 p. (Norges Offisielle Statistikk X. 175) 41.9 N83B  
Title, tables of contents, and tables also in French.
- 44777 ONTARIO VETERINARY COLLEGE. Report, 1947. Toronto, 1948. 138 p. 41.9 On8R
- 44778 OZEROV, A. V. Bolezni sel'skokhoziaistvennykh zhivotnykh i zoogigiena [Livestock diseases and animal hygiene]. Ed. 4, rev. and enl. Moskva, Sel'skhozgiz, 1948. 591 p. (Uchebniki i Uchebnye Posobie dlia Sel'skokhoziaistvennykh Tekhnikumov) 41 Oz3
- 44779 PANEL discussion on large animal hospital practice. *Amer. Vet. Med. Assoc. J.* 114: 230-234. Apr. 1949. 41.8 Am3  
E. J. Frick, moderator, and C. H. Smith, A. E. Erickson, H. E. Clarke, W. M. Coffee, S. E. Philips, K. R. Preusser, R. C. Snyder, G. V. Spayth, and D. E. Barr.
- 44780 PANISSET, M. Voilà vingt-cinq ans, un vétérinaire, Gaston Ramon découvrait les anatoxines. *Canad. J. Compar. Med.* 13: 60-63. Mar. 1949. 41.8 C162
- 44781 PÉRÈS, G., and SERAIN, C. Notions sur le borate de phénylmercure. *Rev. de Méd. Vét. [Toulouse]* 100: 75-82. Feb. 1949. 41.8 R32
- 44782 RAWSON, G. W. Allergy and antihistamine therapy in veterinary practice. *Amer. Vet. Med. Assoc. J.* 114: 239-241. Ref. Apr. 1949. 41.8 Am3
- 44783 RICHARDSON, U. F. Veterinary protozoology. Edinburgh, Oliver and Boyd, 1948. 240 p. 439 R39
- 44784 RICHTER, R. Nucleovet, ein neues mittel zur unspezifischen reiztherapie. *Wien. Tierärztl. Monatsschr.* 35: 453-454. Sept. 1948. 41.8 T345
- 44785 SALAFRANCA, E. S., and ESPIRITU, L. Report on the presence of Japanese B encephalitis neutralizing antibody among Filipinos and certain Philippine animals. *Amer. J. Trop. Med.* 29: 219-227. Mar. 1949. 448.8 Am33  
Positive tests from cattle, horses, carabaos, and goats.
- 44786 SALVADOR, A. N. Veterinary medicine: parasitic diseases. (In Portuguese.) *Vida Agr. [Lisboa]* 11(69): 6-7. Jan./Feb. 1949. 15.5 V66
- 44787 SANDERSON, C. J. Mineral soil deficiencies can cause serious disease and losses in stock. *Land [Sydney]* 1953, i. e. 1943: 18; 1954, i. e. 1944: 18. Jan. 28-Feb. 4, 1949. 23 L22
- 44788 SCHEIDY, S. F. New trends in chemotherapy. II. Sulfonamides, blood substitutes and nutritional supplements. *M. S. C. Vet.* 9: 39-45, 60-61. Ref. Winter 1949. 41.8 M582
- 44789 SCHLOTTHAUER, C. F. Laboratory aids in the diagnosis of disease. *Amer. Vet. Med. Assoc. J.* 114: 235-237. Apr. 1949. 41.8 Am3
- 44790 SERRANO TOMÉ, V. Diagnóstico de la gestación por la reacción de Gally Mainini. *Veterinaria* 13: 117-121. Feb. 1949. 41.8 V6429
- 44791 SERRANO TOMÉ, V. Estado actual de la estreptomicina. *Veterinaria* 13: 19-29. Jan. 1949. 41.8 V6429
- 44792 SHARABRIN, I. G. Graphic methods of investigation in clinical practice. (In Russian.) *Veterinariia* 25(11): 28-32. Nov. 1948. 41.8 V6426  
Veterinary medicine.
- 44793 SIEVERS W., H. K. Sobre la medicina veterinaria. *Agr. Austral* 14: 7540-7543. Dec. 1948. 9.3 Ag842
- 44794 SMITH, R. F. Official brucellosis control in Indiana. *Vet. Med.* 44: 209. May 1949. 41.8 M69
- 44795 STEELE, J. H. Veterinary practitioners and community health. *Vet. Med.* 44: 192-195. May 1949. 41.8 M69
- 44796 SÜSS, K. Zur penicillintherapie bzw. penicillin-eigenblutdepotbehandlung in der veterinärmedizin. *Wien. Tierärztl. Monatsschr.* 35: 438-440. Sept. 1948. 41.8 T345
- 44797 SWEDEN. VETERINÄRHÖGSKOLAN. Collected papers from the Veterinary Institute, Stockholm. (In Swedish and English.) Stockholm, 1948. v. 22, pt. 1-2. 41.9 St6M
- 44798 U. S. BUR. OF ANIMAL INDUSTRY. Rules and regulations relating to viruses, serums, toxins, and analogous products, and to certain organisms and vectors, effective March 1, 1949. U. S. Bur. Anim. Indus. B. A. I. Order 381, 85 p. 1949. 1 An50
- 44799 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Eradication of foot-and-mouth disease. Hearings, 81st Cong., 1st sess., Feb. 14, 1949. Washington, 1949. 29 p.
- 44800 VAITSMAN, J. Enteritis in new-born animals. (In Portuguese.) *Rev. dos Criadores* 20(2): 57-58. Feb. 1949. 43.8 R32



- 44901 VALERI, H., and GALLO, P. Estudio de las condiciones de absorción de bacterias y virus, contenidos en soluciones, pseudosoluciones y suspensiones. *Rev. de Med. Vet. y Parasitol.* 7: 55-59. 1948. 41.8 R3293
- 44902 VAN HOUWELING, C. D. The veterinarian and the Farm Bureau [Illinois Agricultural Association]. *Vet. Student* 11: 72-75. Spring 1949. 41.8 V6425
- 44903 VENEZUELA. DIRECCIÓN DE GANADERÍA. Hematología veterinaria, por C. Ruiz Martínez. Caracas 1948. 57 p. 41 V55H
- 44904 VERGE, J. Muert-on encore de rage? *Rev. de Path. Compar.* 48: 583-585. Dec. 1948. 448.8 R326
- 44905 VOGELSANG, E. G. Contribución al estudio de la parasitología animal en Venezuela. XVI. Ecto y endoparásitos en animales domésticos y salvajes de la Guayana venezolana. *Rev. de Med. Vet. y Parasitol.* 7: 145-151. 1948. 41.8 R3293
- 44906 VOGELSANG, E. G. Equinococosis de un dromedario (*Camelus dromedarius*). *Rev. de Med. Vet. y Parasitol.* 7: 213-215. 1948. 41.8 R3293
- 44907 WATT, L. G. Foot troubles in farm animals. *New Zeal. J. Agr.* 78: 33-39, 41-42. Jan. 15, 1949. 23 N48J
- 44908 WIMSATT, W. A. Some important cytological and cytochemical features of the binucleate giant cells characteristic of the placenta of ruminants and their interpretation. (Abs.) *Anat. Rec.* 103: 522. Mar. 1949. 447.8 An1
- 44909 WIRTH, D. Der tierarzt als sachverständiger vor gericht. *Wien. Tierärztl. Monatsschr.* 35: 440-448. Sept. 1948. 41.8 T345
- 44910 WISS, O., and HATZ, F. Über den abbau des tryptophans zu alanin und anthranilsäure im tierischen organismus. *Helvet. Chim. Acta* 32: 532-537. 1949. 385 H36
- 44911 WURST, R. Weitere mitteilungen über die behandlung der speiseröhrenverstopfung mit Novalgin 50%. *Wien. Tierärztl. Monatsschr.* 35: 284-285. June 1948. 41.8 T345
- 44912 YOUNG, E. W. Role of the veterinarian in today's army. *Vet. Med.* 44: 188-191. May 1949. 41.8 M69
- 44913 ZAVAGLI, V. On the efficiency of the veterinary services [in Italy]. (In Italian.) *Prog. Vet.* 3: 375-376. Nov. 1/15, 1948. 41.8 P942
- 44914 ZIEGER, W. Partergin als orales wehenmittel in der kleintierpraxis. *Deut. Tierärztl. Wchnschr.* 55: 183. June 15, 1948. 41.8 D482
- MISCELLANEOUS
- 44915 ATTINÀ, S. The zootechnical problem. (In Italian.) *Prog. Vet.* 3: 370-371. Nov. 1/15, 1948. 41.8 P942
- 44916 BONSMÀ, J. C. The influence of climate on animal production and its effects on human nutrition. Pretoria, Govt. Printer, 1948. 9 p. 40 B646
- 44917 BRETIGNIERE, L. Les problèmes de la production animale. *Agriculture [Paris]* 13: 2-3. Jan. 1949. 14 Ag823
- 44918 BROCHARD, J. P. DE. L'élevage français en péril. *Terre d'Oc* 31: 23-25. Jan. 1949. 14 Ar5
- 44919 BUTTON, D. At the livestock barns it's off-spring-time! *Iowa Agriculturist* 47(8): 14, 20. Mar. 1949. 6 Io9
- Care of young livestock.
- 44920 CARBONERO, D. Zootecnia española. El número y la calidad en nuestra ganadería. *B. Zootec.* 4: 365-375. Dec. 1, 1948. 41.9 So16
- 44921 COLBECK, M. Ceylon's giant workers. *Scot. Zoo & Wild Life* 1: 84-88. July 1948. 410 Sco8
- Draft elephants.
- 44922 DAIGLE, J. Comment il faut se comporter envers les animaux. *Foyer Rur. [Montreal]* 8(7): 10, 21. Apr. 1949. 7 F83
- 44923 DAVIES, J. Increased stock production [Wales]. *Gt. Brit. Min. Agr. Agriculture* 55: 536-538. Mar. 1949. 10 G79J
- 44924 GERSTNER. Rationelle aufzucht der jungtiere. *Salzburger Bauer* 4(4): 5-6. (Concl.) Jan. 27, 1949. 19 Sa3
- 44925 GIULIANI, R. Livestock production problems of Maremma. (In Italian.) *Ital. Agr.* 86: 125-150. Feb./Mar. 1949. 16 It1G
- 44926 HAGMAN, G. Danish livestock raising—an interesting study object. (In Danish.) *Ladugården* 1949: 3-9. Jan. 1949. 44.8 L12
- 44927 HOFER, F. Unterliegen die tiere wettereinflüssen? *Wien. Tierärztl. Monatsschr.* 35: 552-555. Nov. 1948. 41.8 T345
- 44928 HOGE, O. S. Wyoming's new county brand inspection law. *Wyo. Stockman-Farmer* 55(4): 11. Apr. 1949. 6 W992
- 44929 HUGHES, E. H. What are our animal industry graduates doing? *Calif. Dairyman* 29(4): 9. Mar. 26, 1949. 44.8 C12
- 44930 ILLINGWORTH, F. Reindeer for Scotland; a plan to establish herding in the Highlands. *Field* 193: 377-378. Apr. 2, 1949. 10 F45
- 44931 ITTNER, N. R. Made-to-order livestock program does something about Imperial Valley hot weather. *West. Livestock J.* 27(22): 117-118. Mar. 15, 1949. 6 F2278
- 44932 JAUME, J. Concursos de ganados. *Balearic Isl. Diputación Prov. B. de Agr.* 53: 3. Feb. 1949. 15 B19
- 44933 KOLESNIK, N. N. Bergman's principle in geographic changes of domestic animals. (In Russian.) *Zool. Zhur.* 27: 389-402. Ref. Sept./Oct. 1948. 410 R92
- Effect of climate on the size of animals.
- 44934 KUMMER, B. Schaffhauser volks-tierkunde. I. Haustiere. *Naturf. Gesell. Schaffhausen. Neujaarsbl.* 1, 47 p. 1949. 508 Sch1N
- 44935 MATTHEUS, R. Freier auslauf und frische luft; praktische winke zur jungviehaufzucht. *Kurzbriefe f. Ernähr. u. Landw.* 12, G III: 4. Dec. 1948. 281.8 K96
- 44936 NASH, D. W. Arctic farmer. *Country Guide* 68(3): 13, 34-35. Mar. 1949. 7 G76
- Reindeer farming at the Dominion Government Reindeer Station at Aklavik.
- 44937 NUÑEZ MESA, D. La ganadería cubana. *Rev. Ganad. [Habana]* 9(4): 8-9. Apr. 1949. 49 R321
- 44938 SCHMIDHAMMER, G. Grundsätze der aufzucht von jungtieren. *Kärntner Bauer* 99: 71-72. Mar. 1, 1949. 19 K14
- 44939 SOCIEDAD RURAL ARGENTINA. Anales, 14ª Exposición Internacional de Ganadería. Buenos Aires, 1948. v. 82, 181 p. 9 So1
- 44940 SYMPOSIUM on veterinary pediatrics. *Amer. Vet. Med. Assoc. J.* 114: 213-214. Ref. Apr. 1949. 41.8 Am3
- J. Britton, moderator. Raising calves, by W. J. Gibbons. Swine pediatrics, by G. A. Young. Problems in raising lambs, by F. Cross. Diseases of the foal, by B. F. Trum.
- 44941 THEVENOT, R. Les abattoirs de Winterthur et de Lausanne. *Génie Rural* 42: 109-113. Mar. 1949. 58.8 Au8
- 44942 UNITED PROVINCES. ANIMAL HUSBANDRY DEPT. Annual administration report, 1946/47. Allahabad, 1948. 61 p. 49.9 Un33
- 44943 USUELLI, F. Agricultural research and zootechnics. (In Italian.) *Allevatore* 4(52): 1. Dec. 26, 1948. 49 AL55
- 44944 VALERANI, L. Zootechnics in the economy of the Alto Milanese region. (In Italian.) *Zootec. e Vet.* 3: 754-777. Dec. 1948. 41.8 Z7
- 44945 WILLIAMSON, G. Iraqi livestock. *Empire J. Expt. Agr.* 17: 48-59. Jan. 1949. 10 Em7
- 44946 ZORN. Wo steht unsere landestierzucht und unsere landwirtschaftliche tierhaltung? Anliegen und forderungen in forschung und praxis. *Deut. Viehhandel* 4(3): 4. Feb. 15, 1949. 49 D482
- CATTLE
- Breeds and Breeding
- 44947 AMERICAN MILKING SHORTHORN SOCIETY. *Milking Shorthorn year book.* v. 33. Chicago, 1948. 210 p. 43.9 Am3M
- 44948 AYRSHIRE CATTLE HERD BOOK SOCIETY. Annual report, 1948. Ayr, 1949. 23 p. 43.9 Ay74A
- 44949 BAKER, A. L. Development of hybrid beef cattle for the Gulf Coast Region. *Amer. Brahman J.* 4: 7, 9-11. Apr. 1949. 43.8 Am33
- Brahman-Angus and Afrikander-Angus crosses.



- 44850 BAKKER, W. Measures for the improvement of cattle breeding in Drenthe. (In Dutch.) Stamboek 31: 26-27. Mar. 17, 1949. 43.8 V58
- 44851 BARTLETT, N. Australian dairymen breed prize winning Illawarra Shorthorns. Dairymen's League News 33(8): 20. Apr. 19, 1949. 44.8 D1432
- 44852 BENZONI, C. Contribution to the study of the race-population of Bruno-Sarda cattle. Research on meat-production qualities. (Recapitulatory note). (In Italian.) Zootec. e Vet. 3: 679-689. Nov. 1948. 41.8 Z7  
Cross between Brown Swiss and Sardinian breeds. English summary.
- 44853 BLOM, E. Über sperma-untersuchungs-methoden beim bullen. Wien. Tierärztl. Monatsschr. 36: 49-55, 111-112. (Cont.) Jan.-Feb. 1949. 41.8 T345
- 44854 BONADONNA, T. The "economical" value of the bull. (In Italian.) Zootec. e Vet. 4: 8-32. Jan. 1949. 41.8 Z7  
Morphological, functional, and genetic values.
- 44855 BONE, H. A great Ayrshire year. Farming News and North Brit. Agr. 101: 81, 83, 85, 87. Jan. 1, 1949. 10 N82
- 44856 BORRELLI, G. Some practical considerations on the sterility of draft cattle in farm regions. (In Italian.) Prog. Vet. 4: 15-19. Jan. 15, 1949. 41.8 P942
- 44857 BROWN, B. Organization changes, new production records highlight historic Holstein year. West. Farm Life 51(1, Sect. 2, Ann. Livestock Rev. 1949): 170, 177. Jan. 1, 1949. 6 R153  
Holstein-Friesian Association of America.
- 44858 CANADIAN JERSEY CATTLE CLUB. The Canadian Jersey herd record. v. 19. Ottawa, 1949. 573 p. 43.9 C163
- 44859 CANDE, D. H. First things come first. Milking Shorthorn J. 30(4): 4, 12, 14. Apr. 1949. 43.9 M59  
Breeding.
- 44860 CHILDRESS, P. Artificial insemination, the answer to better dairying. Ala. Farmer 27(5): 7, 16-18. Feb. 1949. 276.8 AL1
- 44861 CONSOLINI, A. Selective improvement in the Brown Swiss breed. (In Italian.) Allevatore 5(3): 4. Jan. 16, 1949. 49 AL55
- 44862 CORDIEZ, E. Le moment de l'insémination artificielle dans l'espèce bovine. Ann. de Méd. Vét. 93: 4-18. Ref. Jan./Feb. 1949. 41.8 An78
- 44863 CUNKELMAN, J. W. Management of bovine sterility. Vet. Med. 44: 204-206. May 1949. 41.8 M69
- 44864 CUTTANO, M. C. The Brown Swiss breed in the province of Bari. (In Italian.) Allevatore 5(3): 5. Jan. 16, 1949. 49 AL55
- 44865 DIERNHOFER, K. Bemerkungen zur hormonbehandlung der sterilität der kühe. Wien. Tierärztl. Monatsschr. 35: 121-123. Mar. 1948. 41.8 T345
- 44866 DIERNHOFER, K. Weitere praktische mitteilungen zur künstlichen befruchtung beim rinde. Wien. Tierärztl. Monatsschr. 35: 297-301. June 1948. 41.8 T345
- 44867 DUCKWORTH, J. The three-quarter-bred Holstein-Zebu heifer. III. Empire J. Expt. Agr. 17: 23-27. Jan. 1949. 10 Em7
- 44868 EDWARDS, J. Recent advances in artificial insemination. Brit. Agr. J. 1: 97-101. Autumn 1948. 10 B776  
As applied to cattle.
- 44869 ERDMANN, F. Las razas bovinas de los Países Bajos. Agrario 14(405): 8. Jan. 1949. 9.3 Ag85
- 44870 FARLEY, F. W., JR. Polled Herefords in California. Polled Hereford World 2(10): 8-12, 14. Oct. 15, 1948. 43.8 P76
- 44871 GAIER, R. Ist eine gesetzliche regelung der künstlichen befruchtung der haustiere notwendig und was soll sie beeinhalten? Wien. Tierärztl. Monatsschr. 35: 351-353. July 1948. 41.8 T345  
Cattle.
- 44872 GALLOWAY CATTLE SOCIETY OF GREAT BRITAIN AND IRELAND. The Galloway herd book, containing pedigrees of pure-bred Galloway cattle. v. 69. Dumfries, Courier Press, 1949. unpag. 43.9 G13H
- 44873 GANTZ, H. L. Good bulls make a difference. Farm & Ranch 68(4): 6-7. Apr. 1949. 6 T31
- 44874 GREVE S., G. Los overos Colorados en los torneos del sur. Agr. Austral 14: 7524-7527. Dec. 1948. 9.3 Ag842
- 44875 GROVES, P. K. Registration of imported cattle. Shorthorn World 34(2): 64. Mar. 25, 1949. 43.8 Sh8
- 44876 HAQ, I. Causes of sterility in bulls in southern England. Brit. Vet. J. 105: 71-88. (To be cont.) Mar. 1949. 41.8 V643
- 44877 HARPER, J. L. Developing new dairy breed for the South. Cattleman 35(11): 62. Apr. 1949. 49 C29  
Jersey-Brahman hybrid.
- 44878 HARRIS, J. El ganado británico de raza. Res 17: 23373. Mar. 5, 1949. 286.85 R31  
Cattle.
- 44879 HASSINGER. Schwarzstier oder qualitätsstier? Allgäuer Bauernbl. 17: 92-93. Feb. 18, 1949. 18 AL53
- 44880 HENICK, J. B. Artificial breeding: are we using what we know? Hoard's Dairyman 94: 300. Apr. 10, 1949. 44.8 H65  
Cattle.
- 44881 HERRICK, J. B. Cervical fixation as a preferred insemination technic. North Amer. Vet. 30: 236-237. Apr. 1949. 41.8 N812  
Dairy cattle.
- 44882 HOBSON, G. British Friesians of 1948. Farming News and North Brit. Agr. 101: 101, 103. Jan. 1, 1949. 10 N82
- 44883 HOGG, W. Aberdeen-Angus cattle in Argentina. Scot. Farmer 57(2928): 140-141. Jan. 1, 1949. 10 Sco8
- 44884 HORNEY, J. T. Brahman cattle. Tex. Livestock J. 8(2): 50-51. Feb. 15, 1949. 49 T29
- 44885 KEITH, A. Aberdeen-Angus record year. Farming News and North Brit. Agr. 101: 57, 59, 61. Jan. 1, 1949. 10 N82
- 44886 KELLEY, R. B. Heterosis controlada. Hereford 16: 122-123. Mar. 1949. 43.8 H42
- 44887 KENNEDY, C. "They stay on feed better;" for this reason he prefers the blocky Blacks. Aberdeen-Angus J. 30(9): 46-47, 76, 78, 80. Apr. 1949. 43.8 Ab3
- 44888 KRIPPL, J. Untersuchungen über ursachen derzeit geringer fruchtbarkeit beim frankenrind im mainfränkischen zuchtgebiet; ihre auswirkung auf züchterische massnahmen und die wirtschaftlichkeit der rinderhaltung. Landw. Jahrb. f. Bayern. 25(2): 4-74. Ref. Dec. 1948. 18 L24
- 44889 LANDMAN, L. The Friesian, our most important dairy breed. (In Afrikaans.) Landbouweekblad 30(1547): 42. Mar.-9, 1949. 24 L232
- 44890 LARSEN, H. Red Danish dairy cattle in U.S.A. (In Danish.) Dansk Landbr. 68: 149-150. (To be cont.) Mar. 24, 1949. 280.28 V91
- 44891 LARSEN, L. H., and ØSTERGAARD, P. S. Progeny testing of bulls. (In Danish.) Denmark. Statens Husdyrbrug. Forsøgslab. Beret. 236, 87 p. 1948. 104 D41  
English and German summary.
- 44892 LEAMY, W. P. Orleans County herd testing program. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 19-22. 1948. 44.9 V593
- 44893 LEMMENS. On the Limburg Red and White breed. (In Dutch.) Stamboek 30: 118-119. Dec. 9, 1948. 43.8 V58
- 44894 MCMEEKAN, C. P. Use of identical twins in N.Z. dairy cattle research. Australian Dairy Rev. 17(2): 5. Feb. 1, 1949. 44.8 Au73
- 44895 MACNABB, A. L. Address to Shorthorn breeders. Shorthorn News 10: 10-11. Mar. 1949. 43.8 Sh85
- 44896 MADDOCKS, B. Pioneer Washington Jersey herds. Jersey B. 68: 488-489, 574-577. Apr. 10, 1949. 43.8 J48
- 44897 MARCHETTANO, E. Races in decline and races in progress. (In Italian.) Allevatore 5(6): 7. Feb. 6, 1949. 49 AL55  
Cattle in Veneto, Italy.
- 44898 MARTIMO, E. Experiments with identical twins in the service of livestock breeding. (In Swedish.) Prakt. Försöksverks. 5: 43-44. May/June 1948. 20 P88  
Cattle.
- 44899 MAYER. Über den stand der künstlichen befruchtung der rinder im Burgenlande. Wien. Tierärztl. Monatsschr. 35: 583-584. Nov. 1948. 41.8 T345



- 44900 MEAD, W. H. T. Breeding efficiency as a key to herd's profitability. *Amer. Hereford J.* 39(23): 8. Apr. 1, 1949. 43.8 Am32
- 44901 MEAD, W. H. T. A new appraisal. *Country Guide* 68(3): 15, 28-29. Mar. 1949. 7 G76  
Artificial insemination of dairy cattle in Canada.
- 44902 MERCIER, E. L'insémination artificielle des bovins. *Terre de Chez Nous* 21(6A): 23. (Cont.) Apr. 6, 1949. 7 T27
- 44903 MERCIER, E., BRATTON, R. W., and SALISBURY, G. W. Semen production and fertility of dairy bulls as related to frequency of ejaculation. *Cornell Vet.* 39: 32-38. Jan. 1949. 41.8 C81
- 44904 ODLUM, G. Es el toro menos que la mitad del plantel? *Aberdeen Angus [Buenos Aires]* 1949: 27-28, 30-31. Summer 1949. 43.8 Ab33
- 44905 PATTERSON, P. Lillywhites favor black-and-whites. *West. Farm Life* 51(6): 7, 22. Mar. 15, 1949. 6 R153
- 44906 PETTYJOHN, J. E. Our opportunities. *Milking Shorthorn J.* 30(4): 36-38. Apr. 1949. 43.9 M59
- 44907 PLANK, G. M. VAN DER. Milk production and cattle breeding. (In Dutch.) *Nederlands Melk-en Zeevet tijdschr.* 2: 167-177. July/Sept. 1949. 44.8 N283  
English summary.
- 44908 PRINCE, P. W. and ALMQUIST, J. O. The effect of agitation upon the livability of bovine spermatozoa. *J. Dairy Sci.* 31: 839-844. Ref. Oct. 1949. 44.8 J822
- 44909 QUEIROZ, M. DE S. General zootechny: the dairy cow. (In Portuguese.) *Chacaras e Quintais* 79: 354-357. (Cont.) Mar. 15, 1949. 9.2 C34  
Breeding.
- 44910 REMMELTS. Black and White breeding in southwest Drenthe. (In Dutch.) *Stamboeker* 31: 26. Mar. 17, 1949. 43.8 V58
- 44911 ROTTENSTEN, K. Observations and investigations on low fertility in cattle. (In Danish.) *Denmark. Statens Husdyrbrug. Forsøgslab. Beret.* 235, 39 p. Ref. 1948. 104 D41  
English summary.
- 44912 ROYAL JERSEY AGRICULTURAL & HORTICULTURAL SOCIETY. Jersey herd book. v. 42, pt. 2. St. Helier, 1948. 137 p. 43.9 R813  
Cows, 1943-1944; Bulls, 1943-1948.
- 44913 SAELAND. The color of the Telemark cattle. (In Norwegian.) *Norsk Landbr.* 15: 67-68. Feb. 18, 1949. 11 N8122
- 44914 SAINT-QUENTIN, M. La race pie noire, une merveille de Bretagne. *Rustica* 22: 256, 263. Mar. 27, 1949. 14 R92
- 44915 SANDBERG, H. The advance of our landraces; a 50-year's anniversary. (In Swedish.) *Prakt. Försöksverks.* 5: 44-46. May/June 1948. 20 P88  
Cattle breeding in Finland.
- 44916 SANDERSON, D. H. Improvement of British cattle. IX. Breeding primarily for milk production. *Farming [Norwich]* 3: 41-43, 48. Feb. 1949. 10 F2236
- 44917 SINCLAIR, R. D. Herefords thrive in Alberta; one very good reason for their success is that they have been bred for the job they do. *Amer. Hereford J.* 39(23): 102-103, 118 B. Apr. 1, 1949. 43.8 Am32
- 44918 STANSBURY, J. L. Reproduction of dairy cattle. *Ohio. Agr. Col. Ext. B.* 294, 8 p. Apr. 1948. 275.29 Oh32
- 44919 STONE, E. C. Development of Brahman-cross cattle brings changes in modern beef herds. *N. Mex. Stockman* 14(4): 40, 76. Apr. 1949. 49 N462
- 44920 SUTHERLAND, A. Aberdeen-Angus cattle in 1948. *Scot. Farmer* 57(2928): 132-139. Jan. 1, 1949. 10 Sco8
- 44921 SUTHERLAND, A. Shorthorn cattle in 1948. *Scot. Farmer* 57(2929): 56-63. Jan. 1, 1949. 10 Sco8
- 44922 SUTTERLÜTY, J. Beitrag zur Sterilitätsbehandlung der rinder. *Wien. Tierärztl. Monatsschr.* 35: 619-620. Dec. 1948. 41.8 T345
- 44923 TANABE, T. Y., and CASIDA, L. E. The nature of reproductive failures in cows of low fertility. *J. Dairy Sci.* 32: 237-246. Mar. 1949. 44.8 J822
- 44924 TARRONI, D. The Romagna breed; precocity and size of the cattle. (In Italian.) *Allevatore* 5(7): 7. Feb. 13, 1949. 49 AL55
- 44925 TERRAZAS, I. El Zebu para Bolivia. *Campo [La Paz]* 2(20): 5-7. Dec. 1948. 9.1 C15
- 44926 TOMSON, C. Modern Shorthorns in the South. *Gulf Coast Cattleman* 15(2): 12. Apr. 1949. 43.8 G95
- 44927 TONINI, G. Artificial insemination in cattle. (In Italian.) *Romagna Agr. e Zootec.* 34, i. e. 33: 1-2. Jan. 1949. 16 R66
- 44928 TRIMBERGER, G. W. Keep the good ones breeding. I-II. *Guernsey Breeders' J.* 75: 1073-1076, 1087, 1310-1312. Apr. 1, 15, 1949. 43.8 G93  
I. Estrus and the sexual cycle. II. Diseases; feeding and fertility; the herd sire; heredity; etc.
- 44929 TYLER, W. J., CHAPMAN, A. B., and DICKERSON, G. E. Growth and production of inbred and outbred Holstein-Friesian cattle. *J. Dairy Sci.* 32: 247-256. Ref. Mar. 1949. 44.8 J822
- 44930 UBALDI, L. Mountain pastures and the breeding of the Brown Swiss. (In Italian.) *Allevatore* 4(51): 5. Dec. 19, 1948. 49 AL55
- 44931 VATTI, G. Artificial insemination; a Neapolitan center against bovine sterility. (In Italian.) *Allevatore* 5(6): 7. Feb. 6, 1949. 49 AL55
- 44932 WATSON, I. Breeding for heavier calves and good-doing cattle. *N. Mex. Stockman* 14(4): 63. Apr. 1949. 49 N462
- 44933 WEBER, A. D. What is a good Shorthorn? *Country Gent.* 119(4): 24-25, 96, 98, 101. Apr. 1949. 6 C833
- 44934 WEBER, W. Die künstliche besamung des rindes in England. *Schweiz. Arch. f. Tierheilk.* 91: 198-206. Mar. 1949. 41.8 Sch9
- 44935 WHITCOMB, R. Orleans County dairy herd testing program. *Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib.* 27: 16-18. 1948. 44.9 V593
- 44936 WHITLOCK, R. A lesser known breed; points that distinguish Gloucestershire cattle. *Field* 193: 269. Mar. 5, 1949. 10 F45
- 44937 WINNIGSTEDT. Das zuchtziel in der schweizerischen fleckviehzucht. *Deut. Tierärztl. Wchnschr.* 55: 182. June 15, 1948. 41.8 D482
- 44938 YUILL, W. J. Development of Edenhope Jerseys. *Austral. Farm and Home* 58(2): 65-66. Feb. 1, 1949. 23 Au7
- 44939 ZENTRALVERBAND DEUTSCHER RINDERZÜCHTER E. V. Die bedeutendsten vererber (preferente bullen) der Holländisch-Friesischen Schwarzbuntzucht. *Zentralverband Deut. Rinderzüchter. Arb.* 3, 24 p. 1948. 43.9 Z4
- 44940 ZURUTUZA ALTOLAGUIRRE, E. Profilaxis y lucha contra la esterilidad de los bovinos. *Res* 17: 23415. Mar. 20, 1949. 286.85 R31

#### Feeds and Feeding

- 44941 BAKALOR, S. Does feeding influence the S.N.F. [solids-not-fat] content of milk? *Farming So. Africa* 23: 831-832. Dec. 1948. 24 So842
- 44942 BARRON, J. R. What dairy farmers have achieved, relying on home fodder. *Farming News and North Brit. Agr.* 101: 79. Jan. 1, 1949. 10 N82
- 44943 BENDER, C. B. Quality roughage and the Guernsey cow. *Guernsey Breeders' J.* 75: 1305-1306, 1333. Apr. 15, 1949. 43.8 G93
- 44944 BÜNGER, H. Kann man die milchleistungen im verlauf einer laktation mit einiger zuverlässigkeit im voraus bestimmen und kann man aus dem verlauf der laktation zuverlässige schlüsse auf die richtigkeit der fütterung ziehen? *Tierzucht* 2: 176-182. Nov./Dec. 1948. 49 T443
- 44945 BURKE, J. D. Selling a feeding program. *Cornell Nutr. Conf. Feed Mfrs. Proc.* 1948: 43-46. 389.79 C81  
Dairy cattle.
- 44946 CERVINKA, M. Money saved is money made; full use of pasture and roughage can cut drastically the cost of beef making. *Amer. Hereford J.* 39(23): 22-23, 162. Apr. 1, 1949. 43.8 Am32
- 44947 CORAZZA, A. Mixed feeds. (In Italian.) *Mondo del Latte* 1949: 60, 62-63. Feb. 1949. 44.8 M74  
French and English summary.  
For dairy cattle.



- 44948 CRANDALL, W. T. Increase milk supply by using calf starter. *Agr. Leaders' Digest* 30(3): 46-47. Mar. 1949. 275.28 Am3
- 44949 DEVUYST, A., VERVACK, W., and ROY, R. VAN Alimentation et croissance chez le veau. *Agricultura [Louvain]* 47: 1-12. Jan. 1949. 13 R32
- 44950 ELY, C. M. A preliminary evaluation of solubles in calf rations. *Conf. Feeds Grain Distill. Proc.* 4: 127-130. 1949. 389.79 C765  
Distillers' grain solubles.
- 44951 ESH, G. C., and SUTTON, T. S. The nutrition of the newborn dairy calf. II. Effect of dietary tryptophan on the urinary excretion of niacin and its metabolites by young dairy calves. *J. Dairy Sci.* 31: 909-912. Ref. Oct. 1948. 44.8 J822
- 44952 FRYE, J. B., JR., HAWKINS, G. E., JR., and HENDERSON, H. B. The value of winter pasture and sweet potato meal for lactating dairy cows. *J. Dairy Sci.* 31: 897-903. Ref. Oct. 1948. 44.8 J822
- 44953 GARRIGUS, W. P. Beef "U. S. Good," grass fed. *Prog. Farmer, Tex. Ed.* 64(3): 86-87. Mar. 1949. 6 T311
- 44954 HENRIKSSON, A. Feeding of dry cows. (In Swedish.) *Ladugarden* 1949: 60-61. Feb. 1949. 44.8 L12
- 44955 HINKHOUSE, F. W. Observations of an Iowa cattle feeder. *Mont. Stockgrower* 21(3): 22-25. Mar. 15, 1949. 49 M76
- 44956 HIRSCHFELD, W. K. Cattle feeding. (In Dutch.) *Nederlands Melk- en Zuiveltijdschr.* 2: 177-183. July/Sept. 1948. 44.8 N283  
English summary.
- 44957 HODGSON, R. E. The dairy cow and grass-land farming. *U. S. Bur. Dairy Indus. BDIM-Inf-71*, 14 p. Mar. 1949. 1.973 D4B34
- 44958 KADINSKIĬ, I. Carotene balance in milch cows on the farm of the Timiriāzev Agricultural Academy. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriāzeva. Sborn. Studen. Nauch.-Issled. Rabot* 1948: 61-66. 106 M852Sb
- 44959 KASSEL, R. Hohe milcherträge durch kraftfutter? *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 155-156. Feb. 26, 1949. 18 L2346
- 44960 KLEIN, J. W., and JENNINGS, R. D. More grain for your dairy cows? *Agr. Situation* 33(2): 8-11. Feb. 1949. 1 Ec7Ag  
Most profitable rate of feeding.
- 44961 KNOTT, C. B., and WILLIAMS, J. B. Dried distillers grain solubles in milk replacement mixtures for dairy calves. *Conf. Feeds Grain Distill. Proc.* 4: 34-37. 1949. 389.79 C765
- 44962 LANDRUM, R. T., and CROCKETT, S. P. Sweet Sudan grass increases milk production in north Mississippi. *Miss. Agr. Expt. Sta. Inform. Sheet* 430, 2 p. Mar. 1949. 100 M69In
- 44963 LOMBARDO, R. A. Engorde de novillos en praderas artificiales. *Uruguay. Min. de Ganad. y Agr. B. Inform.* 6(257): 13; (258): 13, 11. (Concl.) Feb. 10-17, 1949. 9.9 G15B
- 44964 MATHER, R. E., PRATT, A. D., and HOLDA-WAY, C. W. Fused tricalcium phosphate as a low-fluorine phosphorus supplement for dairy cattle. *J. Dairy Sci.* 32: 228-236. Ref. Mar. 1949. 44.8 J822
- 44965 MUIR, J. Supplying simple mineral mixtures; stockmen should know those conditions under which there may be a lack of minerals in the ration and how to correct any deficiencies economically. *Shorthorn World* 34(2): 32-33. Mar. 25, 1949. 43.8 Sh8
- 44966 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. The feeding of dairy cows. II. Meal mixtures and rations. *North. Ireland. Min. Agr. Monthly Rpt.* 23: 330-333. Mar. 1949. 256.13 Ag82M
- 44967 OLIVE, J. P. L'emploi des hormones dans l'alimentation du bétail. *Rev. Agr. de l'Afrique du Nord* 47: 8-9. Jan. 7, 1949. 80 R326  
Cattle.
- 44968 PHILIPS, P. H., and WERNER, G. M. Como se crían terneros cuando escasea la leche. *Esnea* 35(1519): 4. Mar. 17, 1949. 44.8 Es5
- 44969 RASH, J. R., JR. Bourbon beef—a practical substantiation of the value of feeding distillers feeds. *Conf. Feeds Grain Distill. Proc.* 4: 16-20. 1949. 389.79 C765
- 44970 SCRUGGS, C. G. Are you giving your cows a chance? *Prog. Farmer, Tex. Ed.* 64(3): 15, 127. Mar. 1949. 6 T311  
Feeding dairy cows.
- 44971 SHAW, A. O. Wood molasses for dairy calves. *Chemurg. Digest* 8(4): 13-14. Apr. 1949. 381 N213Na
- 44972 SHAW, J. C., and LEFFEL, E. C. Distillers grains in prepartum and postpartum dairy rations. *Conf. Feeds Grain Distill. Proc.* 4: 46-50. 1949. 389.79 C765
- 44973 SLACK, S. T., and others. Distillers dried solubles in calf starters. *Conf. Feeds Grain Distill. Proc.* 4: 38-45. 1949. 389.79 C765  
K. L. Turk, J. T. Reid, and G. W. Trimberger, joint authors.
- 44974 SMITH, C. S. Cows in the kale. *Farmers Weekly [London]* 30(9): 45, 47. Mar. 4, 1949. 10 F2226
- 44975 SWANSON, R. G., and KNOTT, C. B. A study of feeding low levels of thyroprotein to dairy cows for a period of fifty-two weeks. *J. Dairy Sci.* 32: 257-264. Ref. Mar. 1949. 44.8 J822
- 44976 TURK, K. L. Place of hay-crop silage on farms in 1949. *Dairymen's League News* 33(6): 6, 19. Mar. 22, 1949. 44.8 D1432
- 44977 UBALDI, L. The fattening of cattle. (In Italian.) *Allevatore* 4(5): 5. Jan. 30, 1949. 49 AL55
- 44978 ULVESLI, O. Experiments on urea and various intakes of protein for dairy cows. (In Norwegian.) *Norges Landbrukshøgsk. Meld.* 29(1), 74 p. Ref. 1949. 104 N762M  
English summary.
- 44979 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. More milk from your pastures, by L. A. Moore, R. E. Wagner, and K. M. Gapen. Washington? 1949. 4 p. 1.914 R2R11
- 44980 WEAVER, E. Pastures for Michigan dairy cows. *Mich. Milk Messenger* 30(12): 1, 6. Apr. 1949. 44.8 M582
- 44981 WILLEY, N. B., JONES, J. H., and LYERLY, P. J. Fattening steers in the El Paso Valley, 1947-48. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1151, 3 p. Mar. 3, 1949. 100 T31P
- 44982 WOTTLING, H. L'alimentation économique des vœaux. *Action Lait. (n. s.)* 5(25): 6. Feb. 20, 1949. 44.8 Ac8
- 44983 ZELLER, J. Abhilfe bei heumangel im Frühjahr. *Allgäuer Bauernbl.* 17: 47. Jan. 28, 1949. 18 AL53  
Cattle feeding.

## Veterinary Medicine

- 44984 ABSOLON, H. Beitrag zur behandlung der azetonurie der rinder. *Wien. Tierärztl. Monatsschr.* 35: 372-377. Aug. 1948. 41.8 T345
- 44985 AGYEN-FREMPONG, S. Immunisation of cattle against rinderpest in the Northern Territories. *Farm Forest* 9: 40-43. Jan./June 1948. 24 F226
- 44986 ALBERTS, J. O., and BRYAN, H. S. Studies on bovine mastitis. VII. The incidence of streptococci in milk in relation to the number of lactations. *Cornell Vet.* 39: 69-72. Jan. 1949. 41.8 C81
- 44987 ARMOUR AND COMPANY. ARMOUR LABORATORIES. CHEMICAL RESEARCH AND DEVELOPMENT DEPT. Bovine plasma proteins; annotated bibliography on bovine albumin. Chicago, 1948. 26 p. 241.64 Ar5
- 44988 BAILEY, J. W. Acetonemia. *Farm Q.* 4: 84-86, 114. Spring 1949. 6 F22995  
In dairy cattle.
- 44989 BAILEY, J. W. Rabies—a growing menace. *Hoard's Dairyman* 94: 289, 309, 323. Apr. 10, 1949. 44.8 H65  
In cattle.
- 44990 BAILEY, W. S. Studies on calves experimentally infected with *Cooperia punctata* (v. Linstow, 1907) Ransom, 1907. *Amer. J. Vet. Res.* 10: 119-129. Ref. Apr. 1949. 41.8 Am3A
- 44991 BAKER, E. T. Pneumonia. *Amer. Hereford J.* 39(23): 46. Apr. 1, 1949. 43.8 Am32
- 44992 BARDOULAT. Traitement de la stérilité de la vache par implantation d'ovaires. *Acad. Vét. de France. B.* 22: 51-55. Jan. 1949. 41.9 R24
- 44993 BAUMGARTNER, H. Der gelbe galt. *Schweiz. Zentbl. f. Milchw.* 38: 62-63. Mar. 25, 1949. 44.8 Sch93  
In cattle.



- 44994 BEHRENS, H. Prophylaktische behandlung der koliruhr der kälber mit dem rhodanwasserstoffhaltigen präparat "Othromin." Deut. Tierärztl. Wchnschr. 55: 181. Ref. June 15, 1948. 41.8 D482
- 44995 BERMAN, D. T., IRWIN, M. R., and BEACH, B. A. Statistical considerations of controlled experiments in brucellosis [of cattle]. Amer. J. Vet. Res. 10: 130-137. Ref. Apr. 1949. 41.8 Am3A
- 44996 BOLEY, L. E., MORRILL, C. C., and GRAHAM, R. Evidence of mercury poisoning in feeder calves. OIC News 15 i.e. 5(3): 4. Mar. 1949. 46.8 O11
- 44997 BRODY, S., and others. Growth and development with special reference to domestic animals. LXV. Heat production and cardiorespiratory activities during gestation and lactation in Holstein cattle. Mo. Agr. Expt. Sta. Res. B. 424, 15 p. Sept. 1948. 100 M693
- D. M. Worstell, A. C. Ragsdale, and H. H. Kibler, joint authors.
- 44998 BRUFORD, J. W. Some common diseases of dairy cattle. Kent Farmers' J. 65: 48. Mar. 1949. 10 K41
- 44999 BURGESS, D. Successful treatment of nymphomania by ovariectomy. Vet. Rec. 61: 178. Apr. 2, 1949. 41.8 V641
- Cases of continuous estrus in cow and bitch.
- 45000 CANAVESI, A. J. Papilomas o verrugas. Campo y Suelo Argentino 32(387): 11. Jan. 1949. 9 C15
- Of cattle.
- 45001 CARR, A. K. Calif. vaccination program for brucellosis control. Calif. Farm Bur. Monthly 30(2): 8, 34. Feb. 1949. 275.293 Calif.
- Cattle.
- 45002 CATRAIN, C. La mamitis contagiosa. Campi-na 4(30): 2. Jan. 1949. 15 C152
- In cattle.
- 45003 COFFEE, W. M. Bovine uterine prolapse. Amer. Vet. Med. Assoc. J. 114: 203. Apr. 1949. 41.8 Am3
- 45004 CORTEZ, Le vaccin de Belin (complexe vaccino-aphteux) dans la vaccination contre la fièvre aphteuse. Acad. Vét. de France. B. 22: 39-42. Jan. 1949. 41.9 R24
- Cattle, in Algeria.
- 45005 COTONI, L., FORGEOT, P., and THIEULIN, G. Difficultés rencontrées dans le diagnostic de la mammité streptococcique contagieuse des vaches laitières. Inst. Pasteur Ann. 76: 76-78. Ref. Jan. 1949. 448.3 An75
- 45006 CUNKELMAN, J. W. Lamé bulls. Fort Dodge Bio-Chemic Rev. 19(3): 3-5, 24-25. Winter 1949. 41.8 F772
- 45007 CUNKELMAN, J. W. Mastitis in dairy cattle. Vet. Med. 44: 207-209. May 1949. 41.8 M69
- 45008 DIERNHOFER, K. Behandlungsversuche an trichomonadenstieren. Wien. Tierärztl. Monatsschr. 35: 409-414. Aug. 1948. 41.8 T345
- 45009 DIERNHOFER, K. "Osteoporose" bei jung-rindern in Niederösterreich. Wien. Tierärztl. Monatsschr. 35: 592-595. Dec. 1948. 41.8 T345
- 45010 DIKMANS, G. Anaplasmosis. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1404-1411. Ref. 1948. 150 In822
- In cattle.
- 45011 DILLION, E. D. Anthrax—scourge of the Gulf Coast. Gulf Coast Cattleman 15: 18-19. Mar. 1949. 43.8 G95
- 45012 DOMINGUES, O. Why the cows "let down" their milk. (In Portuguese.) Rev. Agron. [Porto Alegre] 12: 173. Oct./Dec. 1948. 9.2 R325
- 45013 DOUGHERTY, R. W., and CRUMB, D. A new method for the graphic recording of rumen motility in the intact animal. Cornell Vet. 39: 3-10. Ref. Jan. 1949. 41.8 C81
- Experiments with cows.
- 45014 DUCK, R. W. When mastitis strikes [dairy cattle]. Rural New-Yorker 99: 251, 271. Apr. 2, 1949. 6 R88
- 45015 EDWARD, D. G. FF. Immunization against louping-ill. Immunization of cattle. Brit. J. Expt. Path. 29: 600-607. Dec. 1948. 448.8 B772
- 45016 EHRLICH, C. Bekämpfung des seuchenhaften verkalbens durch den rindergesundheitsdienst des tiergesundheitsamtes. Landw. Wchnbl. f. Westfalen u. Lippe 106: 91-92. Feb. 5, 1949. 18 L2346
- Cattle.
- 45017 ERICKSON, J. W. Section of the penis [in a Hereford steer]. Vet. Student 11: 95-96. Spring 1949. 41.8 V6425
- Urethra ruptured due to calculus.
- 45018 ENGEL, A. Bovine trichomoniasis, a cause of infertility in cattle. Victoria. Dept. Agr. J. 47: 23-24. Jan. 1949. 23 V66J
- 45019 FISCHER, K. Zum problem der übertragbaren geschlechtskrankheiten der rinder. Entgegnung. Wien. Tierärztl. Monatsschr. 36: 105-110. Feb. 1949. 41.8 T345
- 45020 FLORENT, A. Le phénomène d'agglutination des Trichomonas par le mucus vaginal—ou de "muco-agglutination" dans la trichomoniasse du bétail. Ann. de Méd. Vét. 93: 19-29. Ref. Jan./Feb. 1949. 41.8 An78
- Cattle.
- 45021 FLÜCKIGER, G. Die tuberkulose des rindes, ihre kennzeichen und bekämpfung. Schweiz. Zentbl. f. Milchw. 38: 49. Mar. 11, 1949. 44.8 Sch93
- 45022 FLÜCKIGER, G. Zur tilgung der rindertuberkulose. Wien. Tierärztl. Monatsschr. 36: 71-79. (To be cont.) Feb. 1949. 41.8 T345
- 45023 FRANK, E. R. Coccidiosis in beef cattle. North Amer. Vet. 30: 238-239. Apr. 1949. 41.8 N812
- 45024 FRENKEL, H. S. Histologic changes in explanted bovine epithelial tongue tissue infected with the virus of foot-and-mouth disease. Amer. J. Vet. Res. 10: 142-145. Apr. 1949. 41.8 Am3A
- 45025 GALLO, P., and RODIL CALDERON, T. El virus de la neumointeritis de los terneros; propiedades físicas, patogenia y cultivo. Venezuela. Inst. de Invest. Vet. B. 3: 528-537. June 1948. 41.9 V552
- English summary.
- 45026 GARM, O. Investigations on cystic ovarian degeneration in the cow, with special regard to etiology and pathogenesis. Cornell Vet. 39: 39-52. Ref. Jan. 1949. 41.8 C81
- 45027 GAY, C. W. What is significance of bone in cattle? Muscular development so indispensable in beef animals that are to be profitable to the feeder as well as showing the greatest cut out value ultimately is closely associated with the size and texture of the bone. Short-horn World 34(3): 7-8, 56. Apr. 10, 1949. 43.8 Sh8
- 45028 GIROUY, G. La prophylaxie de la tuberculose bovine. I-III. Agriculture [Paris] 13: 23-25, 49, 51, 53, 81-82. (To be cont.) Jan.-Mar. 1949. 14 Ag823
- 45029 GÖTZE, R. Über die gewollte auslösung der brunst beim rind. Deut. Tierärztl. Wchnschr. 55: 145-151. May 15, 1948. 41.8 D482
- 45030 GREVE. Ergebnisse und erfahrungen mit der tuberkulinisierung in rinderbeständen der Osnabrücker Herdbuchgesellschaft. Deut. Tierärztl. Wchnschr. 55: 115-117. Apr. 15, 1948. 41.8 D482
- 45031 HAQ, I., and MULLEN, J. E. C. Phosphomonoesterases in bull semen. Vet. Rec. 61: 145-150. Ref. Mar. 19, 1949. 41.8 V641
- 45032 HAYWARD, A., VINATTIERI, E., and CHAWLA, L. R. Retention of placenta in the buffalo. Roy. Army Vet. Corps, J. 20: 29-34. Feb. 1949. 41.8 G79
- 45033 HECKE, F. Übertragung spezifischer deckinfektionen der rinder auf andere weise als durch decken. Wien. Tierärztl. Monatsschr. 35: 124-125. Mar. 1948. 41.8 T345
- 45034 HOFER, F. Eigenartige erscheinungen nach ovarialbehandlung. Wien. Tierärztl. Monatsschr. 35: 221-223. May 1948. 41.8 T345
- Cattle.
- 45035 HOFFMANN. Zum problem der rindertuberkulose. Allgäuer Bauernbl. 17: 48, 58-60. Jan. 28-Feb. 4, 1949. 18 AL53
- 45036 HOUELOT, C. Bronquitis verminosa del ternero. Campesino [Santiago] 81: 23. Jan. 1949. 9.3 So12
- 45037 JURADO, F. R. La prueba opsonocitofágica en la brucelosis bovina. Rev. de Med. Vet. [Buenos Aires] 30: 149-173. Ref. July/Sept. 1948. 41.8 B86
- English and French summaries.
- 45038 KÄSTLI, P. Massnahmen von seiten der milchwirtschaft zur bekämpfung der chronischen tierseuchen. Schweiz. Landw. Monatsh. 1949: 81-100. Mar. 20, 1949. 17 Sch93
- 45039 KESTEVEN, K. V. L., ed. Rinderpest vaccines, their production and use in the field. Food & Agr. Organ. United Nations. FAO Agr. Studies 8, 71 p. Ref. Mar. 1949. 28 F73
- Contents: Goat-adapted virus, by R. Daubney, with discussion, p. 6-23. Inactivated virus vaccine; discussion led by R. E. Shope, p. 23-28. Avianized rinderpest vaccine in China, by S. C. Cheng, T. C. Chow, and H. R. Fischman, with discussion, p. 29-46. Lapinized rinderpest virus, by S. C. Cheng and H. R. Fischman, with discussion, p. 47-65.



- 45040 KING, S. Vaginal tumor in a Hereford cow. Vet. Student 11: 87. Spring 1949. 41.8 V6425
- 45041 KIRKSEY, G. Mexican aftosa program altered after late-January outbreak. Amer. Hereford J. 39(23): 44, 148. Apr. 1, 1949. 43.8 Am32
- 45042 KOSTNER, M. Die mechanik des abortus. Wien. Tierärztl. Monatsschr. 35: 263-275. Ref. June 1948. 41.8 T345  
Abortion in cattle and horses.
- 45043 KRENN, E. Zum problem der übertragbaren geschlechtskrankheiten der rinder. Wien. Tierärztl. Monatsschr. 35: 577-583. Nov. 1948. 41.8 T345
- 45044 KUBIN, G. Zur behandlung des gelben galtes mit ölliger penicillinaufschwemmung. Wien. Tierärztl. Monatsschr. 35: 596-598. Dec. 1948. 41.8 T345  
In cattle.
- 45045 KUBIN, G. Zur penicillinbehandlung des gelben galtes. Wien. Tierärztl. Monatsschr. 35: 368-372. Ref. Aug. 1948. 41.8 T345  
In cattle.
- 45046 LABATUT, R. La stérilité des grandes femelles domestiques. Facteurs étiologiques, traitement chirurgical, hormonal et vitaminique (vitamine E). Rev. de Path. Compar. 48: 646-657. Dec. 1948. 44.8 R326  
English summary.  
Cattle and horses.
- 45047 LACHMANN, A. Anästhesierung der euterzitzen beim rinde. Deut. Tierärztl. Wchnschr. 55: 201. July 1, 1948. 41.8 D482
- 45048 LAMASTER, J. P. Calfhood dehorning with electricity. Guernsey Breeders' J. 75: 1307, 1334. Apr. 15, 1949. 43.8 G93
- 45049 LANCASTER, J. E., and STUART, P. Experiments on the transmission of Streptococcus agalactiae infection by milking with infected hands. J. Compar. Path. & Ther. 59: 19-30. Ref. Jan. 1949. 41.8 J82
- 45050 LÓPEZ PELLON, N. Ciclo evolutivo de un parásito [Fasciola hepatica] que ha afectado al hombre. Rev. Ganad. [Habana] 9(4): 15-16. Apr. 1949. 49 R321  
Cases in Cuba. Transmission by cattle.
- 45051 MARTÍ GÜELL, S. E. Profilaxis de la tuberculosis de los animales, y en especial de la especie bovina en relación con la especie humana. Rev. de Sanidad Vet. 3: 827-832. Nov. 15, 1948. 41.8 R3222
- 45052 MERCIER, G. De la vaccination antiaphteuse en milieu contaminé avec le vaccin Belin. Acad. Vét. de France. B. 22: 65-66. Jan. 1949. 41.9 R24  
Cattle.
- 45053 MESCHINI, S. On a case of nicotine poisoning [in a cow]. (In Italian.) Zooprofilassi 3: 312-314. Nov. 1948. 41.8 Z72
- 45054 MESCHINI, S. Two cases of bovine rabies caused by indirect transmission. (In Italian.) Prog. Vet. 3: 448-450. Dec. 15, 1948. 41.8 P942
- 45055 METZGER, H. J. Vibrio fetus—another cause of abortion. Holstein-Friesian World 46: 813, 918-919. Apr. 16, 1949. 43.8 H742
- 45056 MILOVIDOVA, E. In regard to the ontogenesis of the arterial system of the brain in cattle. (In Russian.) Moskoy. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Sborn. Studen. Nauch.-Issled. Rabot 1948: 73-78. 106 M852Sb
- 45057 MINCIOTTI, F. Duration of pregnancy in the cow. (In Italian.) Zootec. e Vet. 3: 714. Nov. 1948. 41.8 Z7  
Colombia.
- 45058 MORA DÁVILA, N. La suerte nos libró de la aftosa. Rev. Agr. y Ganad. 11(111): 2. Feb. 1949. 9.4 R327  
Colombia.
- 45059 MOUSTGAARD, J. On the influence of proteins on the kidney functions of dogs. (In Danish.) Denmark. Statens Husdyrbrug. Forsøgs-lab. Beret. 234, 134 p. 1948. 104 D41  
French and English summaries.
- 45060 MUTH, O. H. Urinary calculi in cattle. Oreg. Agr. Expt. Sta. C. Inform. 451, 4 p. Mar. 1949. 100 Or3C
- 45061 NEVES E CASTRO, A. V. DAS. Vaginite granulosa, breves notas [Granular vaginitis, short notes]. Lisboa, 1948. 10 p. 41 N413  
In cattle.
- 45062 PACHECO, G. On brucellosis. Medicina; Rev. Mex. 29: 41-45. Feb. 10, 1949. 44.8 M4693  
In man and cattle.
- 45063 PARRISH, D. B., and others. Properties of the colostrum of the dairy cow. III. J. Dairy Sci. 32: 209-221. Ref. Mar. 1949. 44.8 J822  
G. H. Wise, F. W. Atkeson, and J. S. Hughes, joint authors.
- 45064 PIJUÁN JIMÉNEZ, M. Setariosis bovina. B. Zootec. 4: 383-387. Dec. 1, 1948. 41.9 Sol6  
Setaria cervi.
- 45065 PLUMMER, P. J. G. Three cases of osteohae-mochromatosis in cattle. Canad. J. Compar. Med. 13: 64-65. Mar. 1949. 41.8 C162
- 45066 PRIOUZEAU, M. Cancer du foie des bovidés. Rec. de Méd. Vét. 125: 19-27. Jan. 1949. 41.8 R24
- 45067 PRIOUZEAU, M. Vomissement chronique des ruminants. Rec. de Méd. Vét. 124: 550-560. Dec. 1948. 41.8 R24  
Cattle.
- 45068 PROFETA, A. Observations on the first focus of [bovine] anaplasmosis discovered in Abruzzo. (In Italian.) Prog. Vet. 4: 20-22. Ref. Jan. 15, 1949. 41.8 P942
- 45069 RAMON, G., RICHOU, R., and THIERY, J. P. De l'emploi du latex de l'Hevea brasiliensis comme substance adjuvante et stimulante de l'immunité antitoxique. Rev. d'Immunol. 12: 373-378. 1948. 44.8 R323  
Diphtheria toxoids and latex tested on guinea pigs and cattle.
- 45070 ROJAS VALDES, G. Contribución al estudio de la importancia de la tiroproteína sintética en la producción pecuaria. Agrario 14(405): 9, 12. Jan. 1949. 9.3 Ag85
- 45071 ROMIJN, C. Physiologische untersuchungen von stiersamen. Wien. Tierärztl. Monatsschr. 35: 633-635. Dec. 1948. 41.8 T345
- 45072 ROTTGARDT, A. A., and LANUSSE, J. M. Algunas observaciones sobre variaciones sanguíneas numéricas de la serie blanca en el período post-vacunal contra la fiebre aftosa. Rev. de Med. Vet. y Parasitol. 7: 9-34. 1948. 41.8 R3293  
Cattle.
- 45073 ROWSON, L. E., and DOWLING, D. F. An apparatus for the extraction of fertilised eggs from the living cow. Vet. Rec. 61: 191. Apr. 9, 1949. 41.8 V641
- 45074 SANABIA ORTEGA, A. Brucellosis bovina o aborto contagioso. Rev. Ganad. [San Salvador] 8(110/111): 29-30. Jan./Feb. 1949. 8 R3292
- 45075 SCHERMER, S. Über die neugestaltung eines tuberkulosestillungsverfahrens. Deut. Tierärztl. Wchnschr. 55: 113-115. Apr. 15, 1948. 41.8 D482
- 45076 SCHEUHAMMER, F. Zur behandlung der aktinomykose des rindes, insbesondere der holzunge, mit subkutanen injektionen von 0.5promilliger sublimatlösung. Wien. Tierärztl. Monatsschr. 35: 199-203. May 1948. 41.8 T345
- 45077 SCHMID, G. Erfahrungen mit der vakzine Buck 19 in der bekämpfung des rinderabortus Bang in der Schweiz. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 237-238. 1949. 44.2.9 In83  
Discussion in English by T. Dalling.
- 45078 SCHMID, G. Das seuchenhafte verwerfen oder der rinderabortus Bang. Schweiz. Zentbl. f. Milchw. 38: 55. Mar. 18, 1949. 44.8 Sch93
- 45079 SCHOECHLI, A. Über die bekämpfung der rindertuberkulose während der sömmerung. Schweiz. Arch. f. Tierheilk. 91: 186-197. Mar. 1949. 41.8 Sch9
- 45080 SHOPE, R. E. Propagation of the virus of cattle plague in the developing egg. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1351-1357. 1948. 150 In822
- 45081 SLATTER, E. E. Speeding up the Bang test. North Amer. Vet. 30: 240. Apr. 1949. 41.8 N812
- 45082 SMITH, M. Hardware disease and operation hardware. Ariz. Stockman 15: 24-25. Feb. 1949. 49 Ar4  
Injuries to cattle from foreign objects.
- 45083 SPENCER, G. R., and KRAFT, M. E. Pathogenesis of bovine mastitis. I. The relation of age to streptococcic infection. Amer. J. Vet. Res. 10: 115-118. Ref. Apr. 1949. 41.8 Am3A
- 45084 SPLITTER, E. J. Anaplasmosis treatment with paludrine—a case report. Amer. Vet. Med. Assoc. J. 114: 224-225. Apr. 1949. 41.8 Am3  
Experiments with calves.
- 45085 STORM, H. Dehorning of calves. (In Swedish) Ladugården 1949: 29. Jan. 1949. 44.8 L12



- 45086 STUART, P., and LANCASTER, J. E. Some factors which may be concerned in the susceptibility of the bovine udder to *Str. agalactiae* infection. *J. Compar. Path. & Ther.* 59: 31-41. Ref. Jan. 1949. 41.8 J82
- 45087 SWETT, W. W. Tell your heifers' fortunes. *Prog. Farmer, Tex. Ed.* 64(3): 42-43. Mar. 1949. 6 T311
- Prejudging milk-producing ability by mammary gland measurements.
- 45089 TAYLOR, J. I., HIRSCH, A., and MATTICK, A. T. R. The treatment of bovine streptococcal and staphylococcal mastitis with Nisin. *Vet. Rec.* 61: 197-198. Apr. 16, 1949. 41.8 V641
- 45089 TISCHHAUSER, L. A. Diarrhea in a cow. *North Amer. Vet.* 30: 239. Apr. 1949. 41.8 N812
- 45090 TODISCO, E., and MESCHINI, S. On a case of viper bite in a cow. (In Italian.) *Prog. Vet.* 3: 430-431. Dec. 1, 1948. 41.8 P942
- 45091 VAITSMAN, J. A new and acute disease of cattle. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 12: 195-196. Oct./Dec. 1948. 9.2 R325
- 45092 VALERANI, L. Some considerations on the preservation of bovine semen and on the action of glucose solutions. (In Italian.) *Zootec. e Vet.* 3: 825-828. Dec. 1948. 41.8 Z7
- English summary.
- 45093 VERGE, J. Sur la pérennité de l'allergie tuberculinique dans l'espèce bovine. *Rev. d'Immunol.* 12: 313-319. 1948. 44.8 R323
- 45094 VILLEGAS, J. J. Campaña contra la vaginitis granulosa. *Soc. Antioqueña de Agr. B. Agr.* 350/351: 3006. Aug./Sept. 1948. 9.4 S01
- 45095 VILLENEUVE, P. Comment prévenir les maladies des veaux. *B. des Agr.* 45(4): 104. Apr. 1949. 7 B872
- 45096 WALTON, A. Physiology of dairy cattle. VI. The birth of a calf. *Home Farmer* 16(3): 20. Mar. 1949. 280.344 H75
- 45097 WIESSNER, F. Über eine uterusruptur beim rinde. *Wien. Tierärztl. Monatsschr.* 35: 448-449. Sept. 1948. 41.8 T345
- 45098 WILDE, J. K. H. Experimental use of dimidium bromide (1553) in the treatment of *T[rypanosoma] congolense* infection in Zebu cattle. *J. Compar. Path. & Ther.* 59: 48-53. Jan. 1949. 41.8 J82
- 45099 WOLFF, A. Tuberkulosebekämpfung und schlachtviehableferung. *Allgäuer Bauernbl.* 17: 142-143. Mar. 18, 1949. 18 AL53
- 45100 WURST, R. Untersuchungen und beobachtungen über die azetonämie der kühe. *Wien. Tierärztl. Monatschr.* 35: 162-169. Ref. Apr. 1948. 41.8 T345
- 45101 ZHURAVLEV, V. V. Toxic after-effects of gossypol. (In Russian.) *Veterinariia* 25(11): 41-42. Nov. 1948. 41.8 V6426
- Study in feeding cottonseed cake to cattle.
- Miscellaneous
- 45102 ALBAUGH, R. Cowman's yardstick—performance testing of [beef] cattle points the way to advancement. *West. Livestock J.* 27(22): 92, 96-98. Mar. 15, 1949. 6 F2278
- 45103 ANCESCHI, To will and to do in agriculture. (In Italian.) *Avvenire Agr.* 57: 4-9. Jan. 1949. 16 Av9
- Raising cattle.
- 45104 BASSFORD, F. Red Bluff—a story of success. *West. Livestock J.* 27(22): 25. Mar. 15, 1949. 6 F2278
- Red Bluff Bull Sale.
- 45105 BERGE, S. Yield and age. (In Norwegian.) *Norsk Landbr.* 15: 48-50. Feb. 4, 1949. 11 N8122
- 45106 BIRZELE, C. Das zungenschlagen der rinder. *Württemberg. Wchnbl. f. Landw.* 116(1): 7. Jan. 1, 1949. 18 W96
- 45107 BONADONNA, T. Some modern criteria in the rearing of calves. (In Italian.) *Zootec. e Vet.* 3: 711-714. Nov. 1948. 41.8 Z7
- 45108 BUTZ, D. The problem of seasonal milk production. *Minn. U. Agr. Ext. Farm Business Notes* 313: 3. Feb. 28, 1949. 275.29 M663
- 45109 CHESTER, R. D. Rearing dairy calves. *Queensland Agr. J.* 67: 366-376. Dec. 1948. 23 Q33
- 45110 CORREA, O. Problems of the dairy cattle farmer. (In Portuguese.) *Chacaras e Quintais* 79: 293-294. Mar. 15, 1949. 9.2 C34
- 45111 DAULATRAM, J. Improving India's cattle. *Bangalore Dairy Cattle Soc. Monthly B.* 8: 5-6. (Cont.) Jan. 1949. 43.9 B22
- 45112 DAVIS, B. F. Stockgrowers organization aids cattlemen in Colorado. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 113-114. Jan. 1, 1949. 6 R153
- Colorado Stockgrowers and Feeders Association.
- 45113 FOWLER, R. G., JR. Bigger weaners from older cows. *Oreg. Farmer* 72: 229. Mar. 17, 1949. 6 Or32
- 45114 GOODNITE, J. T. Give sale heifers a chance. *Stockman* 8(12): 36. Dec. 1948. 49 So83
- 45115 GREENIE, C. W. When cows are on test. Explanation of some of the Advanced Register rules. *Guernsey Breeders' J.* 75: 1077, 1088. Apr. 1, 1949. 43.8 G93
- 45116 HERRMANN, H. Der nutzeffekt in der rinderhaltung. *Allgäuer Bauernbl.* 17: 74. Feb. 11, 1949. 18 AL53
- 45117 HORWOOD, R. E. Loss of cows from dairy herds reduces income. *Mich. Agr. Expt. Sta. Q. B.* 31: 351-353. Feb. 1949. 100 M58S
- 45118 HUTCHINSON, J. Blueprint for better dairy herds. *Farmers Weekly [London]* 30(11): 45. Mar. 18, 1949. 10 F2226
- Milk recording in dairy cattle improvement.
- 45119 KRENN, E. Ein fall von luftsaugen beim rind. *Wien. Tierärztl. Monatsschr.* 35: 387. Aug. 1948. 41.8 T345
- 45120 LJUNG, G. Let us discuss the dairy barn control. (In Swedish.) *Ladugården* 1949: 56-60. Feb. 1949. 44.8 L12
- 45121 LUKS, K. Durch gute melkarbeit mehr milch. *Landwirtschaftsblatt Weser-Ems* 96: 184. Mar. 17, 1949. 18 L2345
- 45122 MCFAUL, W. Cow-testing pays. *Canad. Ayrshire Rev.* 29: 341, 356. Feb. 1949. 43.8 Ay72
- English and French texts.
- 45123 MASOTTI, N. Points for judging a dairy cow. (In Portuguese.) *Soc. Rural Bras. Rev.* 28: 22-27. Jan. 1948. 9.2 B733
- 45124 MAULE, J. P. La cría de vacunos en relación con el medio ambiente. *Res* 17: 23325-23326. Feb. 20, 1949. 286.85 R31
- 45125 MAYO, H. Suggestions for producing beef calves. *Purdue U. Agr. Ext. Leaflet* 296, 4 p. 1949. 275.29 In2L
- 45126 MOLLIN, F. E. American National [Livestock Association] begins second half of century in service of range cattlemen. *West. Farm Life* 51(1, Sect. 2, Ann. Livestock Rev. 1949): 97-98. Jan. 1, 1949. 6 R153
- 45127 MORLE, F. J. Devon cattle. *Farming Gloucestershire* 8: 29, 31. 1949. 10 F2291
- 45128 NIEMANN, P. J. The milk cow and the summer heat. (In Afrikaans.) *Landbouweekblad* 30 (1545): 43. Feb. 23, 1949. 24 L232
- 45129 ORRE, A. The cattle herd at Tenhults Agricultural School. (In Swedish.) *Ladugården* 1949: 23. Jan. 1949. 44.8 L12
- 45130 PALVA, O. Über die geschwindigkeit des melkens, die menge der nachmilch und die reinheit der milch sowie das verhältnis der beim melken erhaltenen milch zu ihnen. Auf die ergebnisse von melkwettbewerben gegründete statistische untersuchungen über das handmelken. (In Finnish.) *Suomen Maataloustiet. Seura, Maataloustiet. Aikakausk.* 20: 126-142. 1948. 20 Su7M
- German summary.
- 45131 PATERSON, J. A. Milk records. *Highland and Agr. Soc. Scot. Trans. (Ser. 5)* 60: 104-114. 1948. 10 H536
- 45132 PELLETIER, J. R. Mistakes made by dairy farmers. *Marit. Farmer & Co-op. Dairyman* 54(12): 2, 37. Mar. 15, 1949. 7 C77
- 45133 PERRON, J. Vous voulez de bonnes génisses? *B. des Agr.* 45(3): 52, 70-71. Mar. 1949. 7 B872
- 45134 PESCE, F. A. Care of draft cattle. (In Italian.) *Allevatore* 4(49): 3. Dec. 5, 1948. 49 AL55
- 45135 PITOT, R. Une vacherie coopérative en cours de constitution à Roisel. *Agriculture [Paris]* 13: 47-48. Feb. 1949. 14 Ag823
- 45136 RENDEL, J. M., and ROBERTSON, A. Variation of performance in dairy cattle. *Home Farmer* 16(3): 10-11. Mar. 1949. 280.344 H75



- 45137 RICH, L. H. Improve herds with DHIA. Utah Farmer 68(14): 24-25. Mar. 12, 1949. 6 D45
- 45138 RUSSELL, K. N. A study of production policy in dairy herd management. Gt. Brit. Min. Agr. Agriculture 55: 538-541. Mar. 1949. 10 G79J
- 45139 SEARLES, H. R. Dairy cow project. Minn. U. Agr. Ext. 4-H B. 10, rev., 4 p. July 1948. 275.29 M662M
- 45140 SHAW, R. P. Guernsey heifers average 900 gals. Dairy Farmer [Ipswich] 22(4): 26-27. Apr. 1949. 44.8 D1414
- Chiefly care.
- 45141 SIRRI, A. How to develop the work of selecting beef and draft cattle. (In Italian.) Allevatore 5(2): 1. Jan. 9, 1949. 49 AL55
- 45142 SIRRI, A. How to organize selection centers for beef and draft cattle. (In Italian.) Allevatore 5(1): 1. Jan. 2, 1949. 49 AL55
- 45143 SIRRI, A. Transfer to the mountains the products of the plain. (In Italian.) Allevatore 4(51): 3. Dec. 19, 1948. 49 AL55
- Dairy cattle selection.
- 45144 SPANN, J. Milchende kälber und jungrinder. Allgäuer Bauernbl. 17: 118-119. Mar. 4, 1949. 18 AL53
- 45145 TAGLE, E. C. Características del animal de carne. Hereford 16: 131. Mar. 1949. 43.8 H42
- 45146 TIKHONOV, V., and SIMONOV, L. Utilization of cows as draft animals. (In Russian.) Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriázeva. Sborn. Studen. Nauch.-Issled. Rabot 1948: 53-56. 106 M852Sb
- 45147 TOLONEN, K. The herd improvement associations during 1947-48. (In Swedish.) Ladugården 1949: 38-43. Feb. 1949. 44.8 L12
- 45148 TURK, K. L. Don't neglect your heifers this summer. Dairymen's League News 33(8): 6, 18. Apr. 19, 1949. 44.8 D1432
- 45149 WHITLOCK, R. Saving calves from slaughter; nation-wide scheme [in Great Britain] which is producing good beef cattle. Field 139: 239-240. Feb. 26, 1949. 10 F45
- 45150 WHITTAKER, T. P. DHIA records deserve full consideration. Ayrshire Digest 35: 249, 332-333. Apr. 15, 1949. 43.8 Ay7
- 45151 WIESENDANGER, H. Pflege und haltung des rindviehs. Grüne 77: 283-303. Mar. 15, 1949. 17 Sch9
- 45152 WINNIGSTEDT, Fettgehalt und milchmenge, nicht fettgehalt oder milchmenge. Deut. Tierärztl. Wchnschr. 55: 182. June 15, 1948. 41.8 D482
- 45153 WOLF, Die viehzucht im kreife Lindbau. Allgäuer Bauernbl. 17: 90. Feb. 18, 1949. 18 AL53

## DOGS AND CATS

Breeds and Breeding

- 45154 AMERICAN KENNEL CLUB. The American Kennel Club stud book register. 66(1), 481 p.; (2), 451 p. Jan.-Feb. 1949. 48.9 Am3
- 45155 BASNETT, H. W. El gato abisinio. Nuestros Amigos 6(56): 13. Jan. 1949. 48.8 N88
- 45156 BEAUDET, J. E. I am in love with dogs. Beaver 1949: 36-37. Mar. 1949. 110 B38
- Eskimo species.
- 45157 BROWN, W. Cómo educar perros de caza. El Retriever dorado. Nuestros Amigos 6(56): 10. Jan. 1949. 48.8 N88
- 45158 CAHOON, H. H. Count Noble, most dominant influence on American Setters. Amer. Field 151: 266-267. Feb. 26, 1949. 410 Am3
- 45159 CALHOUN, C. E. The Collie's heritage. Mont. Farmer-Stockman 36(14): 14-15. Mar. 15, 1949. 6 M764
- 45160 DALZELL, A. Revival of an old sporting breed—the red and white Irish Setter. Dog World (n. s.) 32: 81. Feb. 4, 1949. 48.8 D674
- 45161 DENLINGER, M. G. The complete Boxer. Washington, Denlinger, 1948. 367 p. 48 D41Cob
- 45162 DENLINGER, M. G. The complete pitbull or Staffordshire Terrier. Washington, Denlinger, 1948. 223 p. 48 D41Cop
- 45163 EWING, F. C. The book of the Scottish Terrier. Semi-centennial rev. ed. New York, Orange Judd, 1949. 253 p. 48 Ew5

- 45164 GASPARDIS, D. The Greyhound of Afghanistan. (In Italian.) Riv. di Zootec. 22: 19-21. Jan. 1949. 49 R52
- 45165 HAUCK, E. Kulturpolitik und hundezucht. Wien. Tierärztl. Monatsschr. 35: 616-619. Dec. 1948. 41.8 T345
- 45166 KALESKI, R. "Fancy" dogs for farmers & graziers. Country Life [Sydney] 60(33): 4. Feb. 11, 1949. 286.85 Sy2
- 45167 LOWRY, R. K. A living in dogs? All-Pets Mag. 20(3): 33-35, 37. Mar. 1949. 48.8 AL5
- 45168 MENRAD. Die auswahl eines deckrüden. Kleintierzücht. Tierbörse 3(51): 10-11. Jan. 10, 1949. 49 K672
- 45169 MOFFIT, E. B. The Cocker Spaniel, companion, shooting dog and show dog; complete information on history, development, characteristics, standards for field trial and bench with some practical advice on training, raising and handling. Rev. and added to by R. C. Craig. New York, Orange Judd, 1949. 335 p. 48 M72C
- 45170 MURCH, T. E. The scientific breeding of dogs. Dog World (n. s.) 32: 89. (Concl.) Feb. 4, 1949. 48.8 D674
- 45171 PERFECT, E. H. Choosing a stud dog. Smallholder 80(2032): 22. Mar. 11, 1949. 10 Sml
- 45172 PERRY, R. Mountain Collies. Young Farmer 17: 58-60. Mar./Apr. 1949. 10 Y82
- The sheep dog.
- 45173 RADERMACHER, MRS. History and development of the Papillon—the butterfly of the fancy. Dog World (n. s.) 32: 101. Feb. 11, 1949. 48.8 D674
- 45174 ROBERTS, F. R. Fox-Terriers as retrievers. Country Life [London] 105: 791. Apr. 8, 1949. 80 C83
- 45175 ROIG, O. The Old English sheepdog. (In Norwegian.) Norsk Kennel Klubs Tidsskr. 50: 60-62. Mar. 1949. 48.9 N81T
- 45176 SANBORN, H. C. The Dachshund or Teckel; a complete treatise on the history, breeding, training, care and management; with chapters on diseases and their treatment. Rev. ed. New York, Orange Judd, 1949. 431 p. 48 Sa52
- 45177 SCHMITTGALL, S. Der Barsoi oder russische Windhund. Kleintierzücht. Tierbörse 3(53): 9. Feb. 10, 1949. 49 K672
- 45178 SMITH, A. C. Dogs out of favour; three large breeds that need immediate support. Field 193: 241. Feb. 26, 1949. 10 F45
- 45179 SMOLIK, R. S. A German with an English name [Boxer]. All-Pets Mag. 20(3): 32, 35-36. Mar. 1949. 48.8 AL5
- 45180 VERSTEEG, H. Nos chiens; le Cocker. Courrier Hort. 11: 47. Jan. 1949. 80 C834

Feeds and Feeding

- 45181 HUGH, E. About dogs. Amer. Family 2(3): 46. Mar. 1949. 324.8 Am3
- Feeding.
- 45182 PERFECT, E. H. Feeding hints for dog breeders. Smallholder 80(2030): 22. Feb. 25, 1949. 10 Sml

Veterinary Medicine

- 45183 BACHL, A. Bisherige erfahrungen mit staupe-vakzine nach Professor Dr. Kress. Wien. Tierärztl. Monatsschr. 35: 385-386. Aug. 1948. 41.8 T345
- 45184 BAILEY, W. S., and WILLIAMS, A. G. Balantidium infection in the dog. Amer. Vet. Med. Assoc. J. 114: 238. Apr. 1949. 41.8 Am3
- 45185 BARRETT, C. D. Practical therapeutics in small animal practice. Vet. Med. 44: 222-225. May 1949. 41.8 M69
- Chiefly dogs.
- 45186 BODINGBAUER, J. Wurzelspitzenresektion beim hund. Wien. Tierärztl. Monatsschr. 35: 49-64, 97-113. Feb.-Mar. 1948. 41.8 T345
- Dental surgery.
- 45187 BRASMER, T. H., TAYLOR, C. A., and STEPHENSON, H. C. Serum albumin in the treatment of shock in dogs. Cornell Vet. 39: 79-85. Jan. 1949. 41.8 C81
- 45188 BRION, A., BERTRAND, M., and JULLIEN, G. La néphrite leptospirosique du chien en France. Acad. Vét. de France. B. 22: 71-75. Ref. Jan. 1949. 41.9 R24



- 45189 BRIZARD, A., and EUZÉBY, J. Un cas de dermatose vermineuse du chien. *Rev. de Méd. Vét. [Toulouse]* 100: 82-86. Feb. 1949. 41.8 R32  
Due to Rhabditis strongyloides.
- 45190 COLE, V. G. Distemper of dogs. *Muster* 3 (16): 4. Jan. 1, 1949. 45.8 M97
- 45191 DISTEMPER and hard pad disease in dogs. Central Veterinary Society discussion. *Vet. Rec.* 61: 175-178. Apr. 2, 1949. 41.8 V641
- 45192 EADS, F. E. The clinical use of sulfamerazine in infections in dogs and cats; a clinical report. *North Amer. Vet.* 30: 244-249. Ref. Apr. 1949. 41.8 N812
- 45193 FLYNN, T. J. Intramedullary pinning of a fracture in a dog. *Vet. Student* 11: 89-92. Spring 1949. 41.8 V6425
- 45194 FREAK, M. J. A "brown mouth" syndrome in dogs. *Vet. Rec.* 61: 190-191. Apr. 9, 1949. 41.8 V641  
Probably a bacterial infection.
- 45195 FRIED, K. The origin of heart syncope after introduction of the stomach tube among dogs. (In Czech.) *Časopis Českoslov. Vet.* 4: 25-33. Ref. Jan. 25, 1949. 41.8 C27  
French summary.
- 45196 GREER, F. G. Immunological relationship of hard pad and distemper viruses. *Vet. Rec.* 61: 163. Mar. 26, 1949. 41.8 V641
- 45197 HAUCK, E. Wutbekämpfung. *Wien. Tierärztl. Monatsschr.* 35: 480-489. Oct. 1948. 41.8 T345
- 45198 HODGMAN, S. F. J., and others. Progressive retinal atrophy in dogs. 1. The disease in Irish Setters (Red). *Vet. Rec.* 61: 185-189. Apr. 9, 1949. 41.8 V641  
H. B. Parry, W. J. Rasbridge, and J. D. Steel, joint authors.
- 45199 HOSKINS, H. P., and LACROIX, J. V., eds. Canine surgery, a text and reference work; the work of twenty-four American authors. Evanston, Ill., North Amer. Vet., 1949. 565 p. Ref. 41 H79
- 45200 INNES, J. R. M. Hepatitis contagiosa canis (Rubarth) in Great Britain. *Vet. Rec.* 61: 173-175. Apr. 2, 1949. 41.8 V641
- 45201 INNES, J. R. M. Inclusion and crystalline bodies in distemper, fox encephalitis, contagious canine hepatitis and in normal dogs. *Brit. Vet. J.* 105: 99-102. Ref. Mar. 1949. 41.8 V643
- 45202 JENNINGS, A. R. Virus diseases in the cat. *Brit. Vet. J.* 105: 89-98. Mar. 1949. 41.8 V643  
Feline influenza. Feline enteritis.
- 45203 JONES, L. M., SMITH, D. A., and SMITH, H. A. Alpha-naphthyl thiourea (ANTU) poisoning in dogs. *Amer. J. Vet. Res.* 10: 160-167. Apr. 1949. 41.8 Am3A
- 45204 KESSLER, S. M. Spontaneous abortion in a bitch. *Amer. Vet. Med. Assoc. J.* 114: 210. Apr. 1949. 41.8 Am3
- 45205 KLINGLER, H. Arsen in der hundezeit. *Kleintierzucht. Tierbörse* 3(52): 8-9. Jan. 25, 1949. 49 K672
- 45206 KLINGLER, H. Rachitis Vigantol und hunde. *Kleintierzucht. Tierbörse* 3(53): 9. Feb. 10, 1949. 49 K672
- 45207 KÖHLER, H. Ulcus pepticum ventriculi als folge einer arteriitis allergica beim hunde. *Deut. Tierärztl. Wchnschr.* 55: 177-181. Ref. June 15, 1948. 41.8 D482
- 45208 KRAUSE, O., and RUWITCH, J. Cystic ovaries in a bitch. *M. S. C. Vet.* 9: 51, 59. Winter 1949. 41.8 M582
- 45209 LATIMER, H. B. The growth of the heart and of the lungs in the fetal dog. (Abs.) *Anat. Rec.* 103: 481-482. Mar. 1949. 447.8 An1
- 45210 LAURANS, R., MALTERRE, J., and WILCZYNSKA, H. Observations sur les caractères, la composition et la conservation du sperme de chien. *Grignon. École Natl. d'Agr. Ann. (ser. 3) (1947/48)* 6: 141-148. 1948. 105.3 G872A
- 45211 MCILNAY, J. N. Methods of diagnosis of leptospirosis in dogs. *M. S. C. Vet.* 9: 33-38, 48. Winter 1949. 41.8 M582
- 45212 MAGRANE, W. B. Diagnosis and treatment of diseases of the eye. *Vet. Med.* 44: 226-230. May 1949. 41.8 M69  
In dogs.
- 45213 MATZKE, H. A. Course of the fibers arising from nucleus gracilis and cuneatus in the cat. (Abs.) *Anat. Rec.* 103: 487. Mar. 1949. 447.8 An1
- 45214 NEUMAYR, L. Auch der bäuerliche haushund gehört entwurmt. *Salzburger Bauer* 4(8): 4. Feb. 24, 1949. 19 Sa3
- 45215 NICHOLSON, T. F. The effect of high blood urea on the acid-base balance of serum of dogs. *Biochem. J.* 43: 478-480. Ref. 1948. 382 B52
- 45216 NIKOLOFF, M. Ein seltengrosses lipom in der bauchhöhle eines hundes. *Wien. Tierärztl. Monatsschr.* 35: 490-491. Oct. 1948. 41.8 T345
- 45217 NIÑO, F. L. Nueva observación de "Diocotophyme renale" en perros de Buenos Aires. *Rev. de Med. Vet. y Parasitol.* 7: 47-53. 1948. 41.8 R3293
- 45218 POMMER, A. Seltener röntgenbefund bei einem metastatischen lungenkarzinom des hundes. *Wien. Tierärztl. Monatsschr.* 35: 361-367. Aug. 1948. 41.8 T345
- 45219 PROKŮPEK, K. Contribution to the knowledge of leukaemia in dogs. (In Czech.) *Časopis Českoslov. Vet.* 4: 33-41. Jan. 25, 1949. 41.8 C27
- 45220 ROSEBERG, A. R. Danger of sulfonamides. *Cocker Spaniel Visitor* 11(4): 13-15. Apr. 1949. 48.8 C64
- 45221 SCHNELLE, G. B. Notes and data on feline practice. *Vet. Excerpts* 9: 8-11, 13-17. 1949. 41.8 V6419
- 45222 SCHOENAERS, F., and BROUWERS, J. Parotidite tuberculeuse à bacille bovin chez un chat. *Ann. de Méd. Vét.* 93: 1-3. Jan./Feb. 1949. 41.8 An78
- 45223 SPEED, J. G. An ectopic (intrapericardial) lobe of the liver in a cat. *Vet. Rec.* 61: 150-151. Mar. 19, 1949. 41.8 V641
- 45224 SWAN, L. C. Methyl testosterone in veterinary practice; a case report. *Canad. J. Compar. Med.* 13: 65-66. Mar. 1949. 41.8 C162  
In a Terrier bitch.
- 45225 TRADER, R. L. Nose operation [for dogs]. *Amer. Vet. Med. Assoc. J.* 114: 210-211. Apr. 1949. 41.8 Am3
- 45226 WILLIAMS, R. C. Intramedullary pinning of fractured tibia in the dog. *Vet. Student* 11: 85-87. Spring 1949. 41.8 V6425
- 45227 WITTER, R. E. Diseases of the external ear canal of the dog. *Cornell Vet.* 39: 11-31. Ref. Jan. 1949. 41.8 C81
- 45228 WOODS, L. A., and others. Cardiovascular toxicity of thiobarbiturates: comparison of thiopental and 5-allyl-5-(1-methylbutyl)-2-thiobarbiturate (Surital) in dogs. *J. Pharmacol. & Expt. Ther.* 95: 328-335. Ref. Mar. 1949. 396.8 J82  
J. B. Wyngaarden, B. Rennick, and M. H. Seevers, joint authors.
- 45229 WYNGAARDEN, J. B., and others. Anesthetic properties of sodium 5-allyl-5-(1-methylbutyl)-2-thiobarbiturate (Surital) and certain other thiobarbiturates in dogs. *J. Pharmacol. & Expt. Ther.* 95: 322-327. Mar. 1949. 396.8 J82  
L. A. Woods, R. Ridley, and M. H. Seevers, joint authors.
- 45230 YOUNG, G. D., and HYAM, R. I. C. Report on an outbreak of hard pad disease in B. A. O. R. *Roy. Army Vet. Corps, J.* 20: 24-29. Feb. 1949. 41.8 G79  
In dogs.

#### Miscellaneous

- 45231 GLYN, R. H. The law as to dogs, their owners and keepers. *Kennel Gaz.* 70: 56-58, 154-155. (Cont.) Feb., Mar. 1949. 48.8 K39
- 45232 KENDRICK, H. Training the gun dog puppy. *Pa. Game News* 20: 16, 26. Apr. 1949. 412.9 P38Pe
- 45233 MAGALHÃES, J. A. P. DE. Training the Setter. (In Portuguese.) *Fauna [São Paulo]* 8: 7-9. Jan. 1949. 410 F272
- 45234 MANGRUM, M. F. R. Canine dictionary. *College Station? Tex., 1949.* 77 p. 48 M31C
- 45235 MEINERS. Der arbeitshund. *Kleintierzucht. Tierbörse* 3(51): 11-12. Jan. 10, 1949. 49 K672
- 45236 MENRAD. Unsere zimmerhunde bei kälte und schlechtem wetter. *Kleintierzucht. Tierbörse* 3(52): 8. Jan. 25, 1949. 49 K672
- 45237 MERRITT, G. How to train that new pup. *Canad. Homes & Gard.* 26(4): 91, 112. Apr. 1949. 296.8 C16
- 45238 NICHOLDS, E. Cow dog; training a cow dog can be an enjoyable experience as well as a profitable one. *Farm Q.* 4: 52-55, 132. Spring 1949. 6 F22995
- 45239 NORTON, M. A. Cats; care, training, feeding, breeding, exhibiting. *New York, Pitman, 1949.* 142 p. 48 N82
- 45240 REIS, C. DOS. Training of the hunting dog. (In Portuguese.) *Chacaras e Quintais* 79: 340-342. Mar. 15, 1949. 9.2 C34



- 45241 RICKETTS, V. L. Care of brood bitches. All-Pets Mag. 20(3): 32, 36. (To be cont.) Mar. 1949. 48.8 AL5
- 45242 SENLIS, M. Du choix d'un chiot d'arrêt. Ac-climatation 76: 11. Jan. 15, 1949. 14 Ac2
- 45243 SHELLEY, E. M., Great dogs of an earlier day. Amer. Field 151: 255. Feb. 26, 1949. 410 Am3
- 45244 THE TWO-faced cat. Farm Q. 4: 76-79, 111-112, 114. Spring 1949. 6 F22995
- 45245 WALDNER, C. E. War on rats. Country Guide 68(3): 72. Mar. 1949. 7 G76
- The value of cats as rat destroyers.

## FUR ANIMALS - PEN RAISED

## Breeds and Breeding

- 45246 ENDERS, R. K. Multiple ovulation in mink breeding. Amer. Natl. Fur & Mkt. J. 27(9): 5-6. Apr. 1949. 412.629 Am3M
- 45247 KOCH, W. Kann man die Fruchtbarkeit der fähen durch hormone beeinflussen? Deut. Pelztierzüchter 23: 7-8. Jan. 1949. 412.628 D48
- 45248 PERNU, L. O., and PERNU, E. A. Mink breeding by trial and error. Fur J. 15(5): 8, 15. Mar. 1949. 412.628 F969
- 45249 SELJESSET, I. The mink at the mating time. (In Norwegian.) Norsk Pelsdyrbl. 23: 56-58. Mar. 5, 1949. 412.628 N812
- 45250 SLAGSVOLD, P. Inheritance of blue and white color of the Arctic fox. (In Norwegian.) Norsk Pelsdyrbl. 23: 38-40. Feb. 20, 1949. 412.628 N812
- 45251 STEVENSON, J. H. F. Knowledge of genetics is essential for successful fur breeding. Brit. Fur Trade 31: 69-70. (To be cont.) Feb. 1949. 412.628 B77
- 45252 WEISE, WEISE. Programmzucht? Deut. Pelztierzüchter 23: 8-9. Jan. 1949. 412.628 D48
- Coypus.

## Feeds and Feeding

- 45253 KENNEDY, A. H. The nutritional requirements of minks. Canad. Silver Fox & Fur 15(4): 12, 14, 16. Apr. 1949. 412.62 C163
- 45254 LINDOW, C. W. Fur animal feed must meet all requirements. Fur J. 15(5): 5, 17. Mar. 1949. 412.628 F969
- Similar title in Amer. Natl. Fur & Mkt. J. 27(9): 7-8, 15. Apr. 1949. 412.629 Am3M
- 45255 ROBERTS, W. L. Proteins must be changed to amino acids. Amer. Natl. Fur & Mkt. J. 27(9): 11-12, 20-21. Apr. 1949. 412.629 Am3M
- 45256 ROBERTS, W. L. Amino acids the building blocks of proteins. Natl. Fur News 21(3): 22, 34. Apr. 1949. 412.628 R59
- 45257 ROBERTS, W. L. Nutrition and economy in mink and fox feeding. Amer. Fur Breeder 21(10): 14, 16, 18, 20, 22. Apr. 1949. 410 Am33
- 45258 VÖTTER, J. Neue Gesichtspunkte zur Sumpfbiberfütterung? Deut. Pelztierzüchter 23: 10. Jan. 1949. 412.628 D48

## Veterinary Medicine

- 45259 GORHAM, J. R., CORDY, D. R., and QUORTRUP, E. R. Salmonella infections in mink and ferrets. Amer. J. Vet. Res. 10: 182-192. Ref. Apr. 1949. 41.8 Am3A
- 45260 KENNEDY, A. H. Studies on neurotropic distemper of foxes. IX. Blood examinations of foxes that showed no symptoms of, and no blood deviations that would indicate, neurotropic distemper infection. Canad. J. Compar. Med. 13: 67-70. Mar. 1949. 41.8 C162
- 45261 KENNEDY, A. H. The veterinarian's approach to disease problems in the mink. Cornell Vet. 39: 64-68. Jan. 1949. 41.8 C81
- 45262 KULL, K. E. Encephalitis in foxes. (In Swedish.) Våra Palsdjur 20: 37-39. Feb. 15, 1949. 410 V42
- 45263 MAIOCCO, F. Examination of the coypu; conformation of the animal. (In Italian.) Allevatore 5(4): 3. Jan. 23, 1949. 49 AL55
- 45264 OTT, G. L. Spring troubles. Natl. Fur News 21(3): 8. Apr. 1949. 412.628 R59
- Mortality among young minks.

- 45265 SCHOOP, G. Thalliumvergiftung und Breslau-infektion [Salmonella typhimurium?] bei Sumpfbibern. Deut. Tierärztl. Wchnschr. 55: 201-202. July 1, 1948. 41.8 D482
- 45266 WILCOX, H. H. Chinchilla skin and hair. (Abs.) Anat. Rec. 103: 588. Mar. 1949. 447.8 An1

## Miscellaneous

- 45267 BÄCK, R. Edelpelztierzucht im Siedlergarten. Österr. Kleintierzüchter 1949: 519. (Concl.) Feb. 1949. 49 Os7
- 45268 BETTIN, L. Etwas grundsätzliches zur Fellverbesserung. Deut. Pelztierzüchter 23: 11-12. Jan. 1949. 412.628 D48
- 45269 BROWN, A. S. Chinchilla's for pleasure and profit. Angora Rabbit Mag. 4(9): 9. Apr. 1949. 40.28 An42
- 45270 COUTURAT, G. Le ragondin, animal herbivore à fourrure. Vie à la Campagne 38: 125. Apr. 1949. 80 V67
- 45271 FIGURA, V. We are still talking about the coypu. (In Italian.) Allevatore 5(2): 3. Jan. 9, 1949. 49 AL55
- 45272 HENSCHER, H. Warum nicht doch freigehegezucht bei Sumpfbibern? Deut. Pelztierzüchter 23: 15-16. Jan. 1949. 412.628 D48
- 45273 JONAS, L. F. Better prices for pelts with "eye appeal." Amer. Natl. Fur & Mkt. J. 27(9): 9-10, 22. Apr. 1949. 412.629 Am3M
- Technique and equipment in pelting minks.
- 45274 JONAS, L. F. Hints for the care of mink kits. Natl. Fur News 21(3): 16, 30-31. Apr. 1949. 412.628 R59
- Also in Amer. Fur Breeder 21(10): 10, 12. Apr. 1949. 410 Am33
- 45275 KELLOGG, C. E., BASSETT, C. F., and ENDERS, R. K. Mink raising. U. S. D. A. C. 801, 42 p. Sept. 1948. 1 Ag84C
- 45276 MAIOCCO, F. The habitat of the coypu. (In Italian.) Allevatore 5(7): 3. Feb. 13, 1949. 49 AL55
- 45277 MAIOCCO, F. Some details on the rearing of coypus. (In Italian.) Allevatore 4(52): 3. Dec. 26, 1948. 49 AL55
- 45278 RIMESLATTEN, H. Impressions from Sweden and Denmark. (In Norwegian.) Norsk Pelsdyrbl. 23: 31-33, 47-51. Feb. 5-20, 1949. 412.628 N812
- Fur farming.

## HORSES AND MULES

## Breeds and Breeding

- 45279 AMERICAN QUARTER HORSE ASSOCIATION. Official stud book and registry. v. 1, No. 4. Amarillo, 1948. 455 p. 42.9 Am33
- 45280 AMERICAN SADDLE-HORSE BREEDERS ASSOCIATION. The register of the American Saddle-Horse Breeders Association, incorporated. Published by authority of the Association for entry of pedigree of Saddle Horses in America. Louisville, Fetter, 1948. v. 28, 578 p. 42.9 Am3
- 45281 BÄWENBERG, I. Kentucky; from a study trip to the paradise of horses. (In Swedish.) Hästen 7(2): 16-18, 22. Feb. 1949. 42.8 H27
- Racing Thoroughbreds.
- 45282 BEALL, A. Judging Quarter Horses. Ranchman 8(8): 47-49. Feb. 1949. 49 R15
- 45283 CLEVE, VON. Pferdezüchttagungen. Landw. Wchnbl. f. Westfalen u. Lippe 106: 198. Mar. 12, 1949. 18 L2346
- 45284 DOWELL, J. What is a Quarter Horse? III. Agr. 53(5): 5. Mar. 1949. 6 IL6
- 45285 FITZGERALD, O. A. Northwest takes to Appaloosas. West. Farm Life 51(6): 40, 43. Mar. 15, 1949. 6 R153
- 45286 GALLINA, L. Necessity of reform in the stud farms. (In Italian.) Prog. Vet. 4: 29-30. Jan. 30, 1949. 41.8 P942
- 45287 GORMAN, J. A. Planning for the 1950 foal. Horse Lover 13(5): 8-9, 60-62. Feb./Mar. 1949. 42.8 H7852
- 45288 GUILD, J. D. Manitoba horse breeding in slump. Family Herald & Weekly Star 80(11): 14. Mar. 16, 1949. 7 F21
- 45289 HUTSCHENREITER, C. Epiphysan G. Richter in seiner hormonalen reizkörper- und antispasmodischen Wirkung bei pferden. Wien. Tierärztl. Monatsschr. 35: 417-435. Ref. Sept. 1948. 41.8 T345



- 45290 JARVIS, R. Horses still required; the Clydesdale year. *Farming News and North Brit. Agr.* 101: 113, 115, 117. Jan. 1, 1949. 10 N82
- 45291 JOCKEY CLUB. The American stud book, v. 19, sup. 2. Foals of 1947, registered under the Jockey Club rules of racing. New York, Jockey Club, 1949. 331 p. 42.9 Am31
- 45292 KILPATRICK, J. My seventy years with Clydesdales. X-XII. *Farming News & North Brit. Agr.* 101(8): 2-3; (9): 2-3; (10): 5. Feb. 18-Mar. 4, 1949. 10 N82
- 45293 LEATHERWOOD FARMS. Horse sense. Bluefield, Va., 1949. 14 p. 42 L48
- On the American Saddle Horse.
- 45294 LEÓN I., V. El caballo chileno de pedigree. *Campesino* [Santiago] 81: 41-42. Jan. 1949. 9.3 So12
- 45295 LUTRI, I. A new breed: the Ragusano donkey. (In Italian.) *Gior. di Agr.* 59: 93. Mar. 20, 1949. 16 It1G
- 45296 NARVÁEZ, J. DE. La Asociación de Criadores de Caballos de Paso. *Ganado* 3(10): 54. Feb. 1949. 49 G153
- Colombia.
- 45297 ORR, G. M. The Tennessee Walking Horse. *Amer. Horseman* 85(2): 33-34, 49, 61. Mar. 1949. 42.8 Am35
- 45298 PACYNSKI, J. La caractéristique du Haras de l'État à Racot (District Poznań). (Abs.) *Akad. Umiejętności. Wydz. Mat.-Przyrodniczy. Compt. Rend.* 1948(4/6): 3. Apr./June 1948. 512 K85C
- 45299 PARKS, C. D. The Morgan Horse—past, present and future. *Horse Lover* 13(5): 30-31. Feb./Mar. 1949. 42.8 H7852
- 45300 PHILP, E. H. J. How to breed a stock horse. *Past. Rev.* 59: 125-126. Feb. 16, 1949. 23 Au75
- 45301 RAU, G. Gedanken zu Württembergs pferdezucht. *Württemb. Wchnbl. f. Landw.* 116: 124. Mar. 5, 1949. 18 W96
- 45302 RICHARDS, C. R. The practice of impregnating. *Blood-Horse* 56: 11. Apr. 2, 1949. 42.8 T392
- 45303 SALAZAR, Z. Mulos castellanos y romos. *Campo y Suelo Argentino* 32(387): 15-17, 42, 47. Jan. 1949. 9 C15
- 45304 SCHILLINGS. Sonderkörnung der junghengste in Sinsheim am 14. dezember 1948. *Bad. Landw. Wchnbl.* 116: 24. Jan. 15, 1949. 18 B142
- 45305 SCHULTE-SIENBECK. Deckstation mit follikelkontrolle in Münster. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 138. Feb. 19, 1949. 18 L2346
- Horse breeding.
- 45306 SCHULTE-SIENBECK. Westfälische pferdezuchtfragen. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 223-224. Mar. 19, 1949. 18 L2346
- 45307 SOLANET, E. Aptitudes de la raza caballar criolla. *Campo y Suelo Argentino* 32(387): 4-6. Jan. 1949. 9 C15
- 45308 STABLES, J. T. Light horses and ponies in 1948. *Scot. Farmer* 57(2928): 48-50. Jan. 1, 1949. 10 Sco8
- Breeds.
- 45309 STONE, F. C. Breeding of light horses. *Westralian Farmers' Co-op Gaz.* 15(365): 53. Jan. 1949. 280.28 W522
- 45310 SUTHERLAND, A. Clydesdales in 1948. *Scot. Farmer* 57(2928): 36-46. Jan. 1, 1949. 10 Sco8
- 45311 SUTHERLAND, A. Other heavy horses in 1948. *Scot. Farmer* 57(2928): 47. Jan. 1, 1949. 10 Sco8
- 45312 TAYLOR, L. 'Factor X'—elusive quality of horse greatness rates first in breeding of top colts. *West. Livestock J.* 27(22): 135, 155. Mar. 15, 1949. 6 F2278
- 45313 ZORN, W. *Pferdezucht*. Ed. 2. Stuttgart, Ulmer, 1948. 264 p. (Tierzuchtbücherei) 42 Z7
- Feeds and Feeding**
- 45314 PESCE, A. The feeding of nursing mares. (In Italian.) *Allevatore* 4(5): 7. Jan. 30, 1949. 49 AL55
- 45315 PRESTHEGGE, K. Feeding of the horse in the winter. (In Norwegian.) *Norsk Landbr.* 14: 464-467. Dec. 17, 1948. 11 N8122
- 45316 SARMIENTO, L. A. Alimentación y cuidado de los caballares. *Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino* 9(33): 49-56. Dec. 1948. 42.8 R32
- Foals.
- 45317 TIERSTEIN, V. Feeding foals—top physical development in horses depends upon adequate initial diet. *West. Livestock J.* 27(22): 139, 141. Mar. 15, 1949. 6 F2278
- Veterinary Medicine**
- 45318 ACOSTA, L. La solución al 14 y su empleo en un caso de tétanos. *Agr. y Ganad.* 23(5, i. e. 2): 13-15. Feb. 28, 1949. 8 Ag834
- Treatment of horse with phenol.
- 45319 BODINGBAUER, J. Ein fall von ostitis fibrosa des schädels mit augenfälliger beteiligung des zahnsystems bei einem pony. *Wien. Tierärztl. Monatsschr.* 36: 63-71. Ref. Feb. 1949. 41.8 T345
- 45320 BÜCHLMANN, E. Der hufkeil bei behandlung von lahmheit. *Wien. Tierärztl. Monatsschr.* 35: 114-118. Mar. 1948. 41.8 T345
- Special shoe for horses and cows.
- 45321 CAMACHO ARINO, L. Indigestiones y cólicos en las caballerías. *Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad.* 6(60): 20-23. (Concl.) Sept. 1948. 15 B14
- 45322 CATHELINEAU, P. Traitement préventif de la bouleture des jeunes solipèdes. *Acad. Vét. de France. B.* 22: 61-64. Jan. 1949. 41.9 R24
- 45323 CHARITAT, P. Piqures et enclouures. *Monit. de la Mécan. Rurale* 42: 20. Jan. 1949. 58.8 M74
- Horse foot injuries during shoeing.
- 45324 CHERNÍAK, V. Z., and LEDĚÁEV, A. D. Methods of determining the resistance of blood vessels in equine infectious anemia. (In Russian.) *Veterinariia* 25(11): 12-13. Nov. 1948. 41.8 V6426
- Use of apparatus.
- 45325 CLARK, H. C. Equine trypanosomiasis—murina of Panama. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1342-1350. Ref.* 1948. 150 In822
- Studies on Trypanosoma hippicum.
- 45326 DOLL, E. R., WALLACE, M. E., and NEWTON, A. C. Dosage of caronamide required for inhibition of renal tubular excretion of penicillin in horses. *Amer. J. Vet. Res.* 10: 154-157. Ref. Apr. 1949. 41.8 Am3A
- 45327 DOLL, E. R. The treatment of septicemia of newborn foals with streptomycin and penicillin. *Cornell Vet.* 39: 86-96. Jan. 1949. 41.8 C81
- Shigella equirulis infection, joint ill.
- 45328 FEDOROVSEV and FIVEĬSKIĬ. Treatment of epizootic lymphangitis with penicillin. (In Russian.) *Veterinariia* 25(11): 42. Nov. 1948. 41.8 V6426
- In horses.
- 45329 FEDRIGO, G. Radiological findings in the fetlock joint. (In Italian.) *Nuova Vet.* 24: 397-406. Dec. 15, 1948. 41.8 N922
- 45330 FEY, H. Zur feuertherapie des pferdes. *Wien. Tierärztl. Monatsschr.* 35: 602-605. Dec. 1948. 41.8 T345
- 45331 FOSTER, E. C. Prevention of moon blindness. *Amer. Horseman* 85(2): 30-31, 62, 77. Mar. 1949. 42.8 Am35
- 45332 GEBAUER, O. Ein beitrag zur früh- und differentialdiagnose des Onchocercen-befalles bei widerristfisteln. *Wien. Tierärztl. Monatsschr.* 36: 26-28. Jan. 1949. 41.8 T345
- 45333 GERMAN, V. A. Calcium chloride as an anti-coagulant and antihemagglutinin preparation in blood transfusion. (In Russian.) *Veterinariia* 25(11): 23-25. Nov. 1948. 41.8 V6426
- Experiments on horses.
- 45334 GORTSEVSKIĬ, S. A. Double torsion of the small intestine in a horse. (In Russian.) *Veterinariia* 25(11): 43. Nov. 1948. 41.8 V6426
- 45335 HACECKY, R. M. Edema of the sinus [in a horse]. *Vet. Student* 11: 93-95. Spring 1949. 41.8 V6425
- 45336 HOWELL, C. E. When to treat horses for internal parasites. *Pacific Stockman* 15(4): 51. Apr. 1949. 286.85 W52
- 45337 ILLARTEIN, M., and others. Sur l'aptitude du cheval à réagir à la tuberculine. *Rec. de Méd. Vét.* 125: 5-18. Ref. Jan. 1949. 41.8 R24
- P. Saurat, J. Verge, R. Gaumont, P. Renard, and M. Tissot, joint authors.
- 45338 JENNINGS, W. E., and JONES, T. C. Surra ([equine] trypanosomiasis), with special reference to its treatment with antrypol. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1331-1341. Ref.* 1948. 150 In822
- Experiences during Burma campaign. Disease transmitted by tabanids and other biting flies.



- 45339 JOHN, E. Bandwurmbefall bei einem pferde. Deut. Tierärztl. Wchnschr. 55: 170-171. June 1, 1948. 41.8 D482
- 45340 KITSELMAN, C. H., and GRUNDMAN, A. W. The virus of equine encephalomyelitis in the peripheral circulation of guinea pigs and rabbits following artificial inoculation. Amer. J. Vet. Res. 10: 158-159. Apr. 1949. 41.8 Am3A
- 45341 KRAVCHENKO, T. M. Diagnostic value of the hemostatic test method in equine infectious anemia. (In Russian.) Veterinaria 25(11): 13-15. Nov. 1948. 41.8 V6426
- 45342 LEVIN, L. The occurrence of  $\alpha$ -estradiol in the urine of stallions; its identification and isolation. J. Biol. Chem. 178: 229-240. Ref. Mar. 1949. 381 7824
- 45343 MEDD, W. H. B. Care of the foaling mare. Horse Lover 13(5): 20, 56-59. Feb./Mar. 1949. 42.8 H7852
- 45344 MEDVEDEV, I. D. Deforming osteo-arthritis in horses. (In Russian.) Veterinaria 25(11): 38-40. Nov. 1948. 41.8 V6426
- 45345 MEYER, O. Fohlenaufzucht, fohlenkrankheiten. Mit dem anhang: beurteilung des neugeborenen fohlens. Ed. 2. Hannover, Schaper, 1948. 127 p. 42 M575
- 45346 MORALES HERRERA, A. El aborto infeccioso de los équidos. Veterinaria 13: 7-16. Jan. 1949. 41.8 V6429
- 45347 NASTRI, T. F. R. Parasitosis intestinal en el equino, con especial referencia a la esclerostomiasis y su tratamiento. Res 17: 23289-23290. Feb. 5, 1949. 286.85 R31
- 45348 NÉLIS, P., and LAFONTAINE, A. Action du formol sur le virus de l'encéphalomyélite équine orientale adapté à la souris. Soc. de Biol. Compt. Rend. 142: 1596-1597. Dec. 1948. 442.9 P21
- 45349 PEATT, E. S. W. Notes on the purchase and examination of horses for soundness. Roy. Army Vet. Corps, J. 20: 1-10. Feb. 1949. 41.8 G79
- 45350 PETEK, M. Ultravirus abortion in horses. (In Italian.) Zooprofilassi 3: 307-310. Nov. 1948. Ref. 41.8 Z72
- 45351 PINVIDIC, J. Sur le traitement de la papillomatose par la colchicine. Acad. Vét. de France. B. 22: 47-49. Jan. 1949. 41.9 R24
- In a stallion.
- 45352 PLUNKETT, J. J. Epizootic lymphangitis. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1394-1403. 1948. 150 In822
- 45353 PONTNAU, E. V. Procedimientos veterinarios para el diagnóstico preciso de las claudicaciones en los yeguarizos. Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino 9(33): 45-48. Dec. 1948. 42.8 R32
- 45354 SAMMARTANO, A. On some cases of benign coital exanthema in horses. (In Italian.) Nuova Vet. 24: 410-412. Dec. 15, 1948. 41.8 N922
- 45355 SCHWARTZ, B., IMES, M., and FOSTER, A. O. Parasites and parasitic diseases of horses. U. S. D. A. C. 148, rev., 56 p. July 1948. 1 Ag84C
- 45356 TAGLE V., I. La equinococosis. Agrario 14 (405): 5. Jan. 1949. 9.3 Ag85
- In horses.
- 45357 TEAM, C. B. Pasture vs. stall foaling; discussion of different methods shows that both have advantages. West. Livestock J. 27(22): 134, 137. Mar. 15, 1949. 6 F2278
- 45358 TOWERS, C. M. Injury and hematocyst of the penis [in a horse]. Vet. Student 11: 92-93. Spring 1949. 41.8 V6425
- 45359 URAY, H. Herzleiden der pferde als folge des koppers. Erfahrungen bei kopperoperationen. Wien. Tierärztl. Monatsschr. 35: 545-548. Nov. 1948. 41.8 T345
- 45360 VILLALBA, J. A. Meningitis cerebro espinal. Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino 9(33): 41-44. Dec. 1948. 42.8 R32
- 45361 VOGELANG, E. G., and LLAMOZAS G., P. La gastrofilosis de los equinos de Venezuela. Rev. de Med. Vet. y Parasitol. 7: 203-211. 1948. 41.8 R3293
- Infestation with Gasterophilus.
- 45362 WHITCOMB, O., and NEUMAN, A. Carcinoma of the eye [in a horse]. Vet. Student 11: 88-89. Spring 1949. 41.8 V6425
- 45363 WOLF, F. Ovulationsbestimmungen bei stuten und beseitigung der eierstockanomalien in der praxis. Deut. Tierärztl. Wchnschr. 55: 165-167. June 1, 1948. 41.8 D482

## Miscellaneous

- 45364 BRION, A. La cría de mulares en Francia. Cuba. Min. de Agr. Rev. (ser. 6) 31(2): 18. July/Dec. 1948. 8 Ag88Re
- 45365 CUEVAS GARCÍA, E. Doma. Ganado 3(10): 52-53. Feb. 1949. 49 G153
- Horse training.
- 45366 DINSMORE, W., and JONES, F. R. What's the future of the mule? South. Agr. 78(3): 14. Mar. 1949. 6 So83A
- 45367 DOWNEY, F. D., and BROWN, P. Horses of destiny. New York, Scribner's Sons, 1949. 186 p. 42 D75
- 45368 EHRENBURG, P. Volksernährung und pferdehaltung. Deut. Viehhandel 4(3): 4. Feb. 15, 1949. 49 D482
- 45369 FENNER, P. R. Horses, horses, horses. Palominos and pintos, polo ponies and plow horses, Morgans and mustangs. New York, Watts, 1949. 285 p. 42 F362
- 45370 FRANKLIN, G. C. Cow horses—then and now. Horse Lover 13(5): 48, 50. Feb./Mar. 1949. 42.8 H7852
- 45371 FUSTER B., O. Recomendaciones a los agricultores para la exhibición de sus equinos. Rev. de Agr., Com. e Indus. [Panama] 8(89): 11-21. Jan. 1949. 8 R3291
- 45372 GIUBBILEI, C. Despised but precious: the mule. (In Italian.) Allevatore 5(1): 3. Jan. 2, 1949. 49 AL55
- 45373 GOOD, B. H. Horseman's market terms. M. S. C. Vet. 9: 52-55, 57. (Concl.) Winter 1949. 41.8 M582
- 45374 GUENON, A. D. El alma del caballo. Asoc. Arg. de Fomento Equino. [Rev.] 6(41): 65-70, 72. (Cont.) Sept. 1948. 42.9 As52
- 45375 HARDY, D. E. El caballo en la reciente guerra. Asoc. Arg. de Fomento Equino [Rev.] 6(41): 11-15, 17. Sept. 1948. 42.9 As52
- 45376 HARDY, E. The wild ancestor of man's faithful burden-bearer; the African wild ass. Frontiers 13: 106-108. Apr. 1949. 410 F92
- 45377 HARRIS, D. M. Horse sense—understood. Vt. Horse & Bridle Trail B. 13: 45-47. Apr. 1949. 42.8 V59
- Training.
- 45378 KALININ, V. I., ed. Uchebnik po konevodstvu [Textbook on raising horses]. Moskva, Sel'khozgiz, 1948. 475 p. (Uchebniki i Uchebnye Posobia Difa Podgotovki Sel'skokhoziaistvennykh Kadrov Massovoï Kvalifikatsii) 42 K123
- 45379 LANSEBURGH, L. Judging a stock horse class. Tex. Livestock J. 8(3): 50, 57. Mar. 15, 1949. 49 T29
- 45380 NEWBEGIN, C. F. Understanding the polo ponies. Tex. Livestock J. 8(3): 52, 57. Mar. 15, 1949. 49 T29
- 45381 PERRON, M. Le cheval, un animal de luxe? Foyer Rural [Montréal] 8(6): 8. Mar. 1949. 7 F83
- 45382 ROBB, H. Night horses. Vt. Horse & Bridle Trail B. 13: 71-74. Apr. 1949. 42.8 V59
- Draft horses.
- 45383 SALCES, F. El fomento equino en nuestro país y en el Ejército. V. Argentina. Dir. Gen. de Remonta. Rev. de Vet. y Fomento Equino 9(33): 31-40. Dec. 1948. 42.8 R32
- 45384 SANDERSON, C. J. Regular grooming and care of the skin help to keep farm horses healthy. Land [Sydney] 1955, i. e. 1945: 18. Feb. 11, 1949. 23 L22
- 45385 SMITH, D. F. G. The role of the R. A. V. C. Remount Purchase commission in Middle-East and Central Mediterranean Force. Roy. Army Vet. Corps, J. 20: 11-24. Feb. 1949. 41.8 G79
- 45386 TAYLOR, L. Five gaits. Horse Lover 13(5): 44-45, 47. Feb./Mar. 1949. 42.8 H7852
- 45387 WADLOW, T. J. Horses can help. Farmers Weekly [London] 30(11): 51. Mar. 18, 1949. 10 F2226
- 45388 WINTER, G. Caballos ingleses. Rev. Ganad. [Habana] 9(4): 38, 64. Apr. 1949. 49 R321
- 45389 YOUNG, J. R. Riding the quick stop. Do you know how? West. Horseman 14(3): 12-13, 35-37. Mar. 1949. 42.8 W522



## LABORATORY ANIMALS, SMALL

Breeds and Breeding

- 45390 KIRSHER, W. Breeding cavies for the show table. *Amer. Small Stock Farmer* 33: 10. Feb. 1949. 48.8 J82
- 45391 ROGERS, J. B. Reproduction and longevity in the guinea pig. (Abs.) *Anat. Rec.* 103: 498-499. Mar. 1949. 447.8 An1
- 45392 YOUNG, W. C. Strength of sex drive and fertility in the male guinea pig. (Abs.) *Anat. Rec.* 103: 525. Mar. 1949. 447.8 An1

Feeds and Feeding

- 45393 SCANLON, C. M. Hamsters. The diet problem. *All-Pets Mag.* 20(3): 91-93. Mar. 1949. 48.8 AL5
- 45394 STUART, F. C. Cavies. Proper feeding. *All-Pets Mag.* 20(3): 91, 93-94. (To be cont.) Mar. 1949. 48.8 AL5
- 45395 TRIGGER, H. How to feed a stud of exhibition cavies. *Fur & Feather* 112: 65. Feb. 4, 1949. 49 F96

Veterinary Medicine

- 45396 ARAMBURU, H. G. A comparison of different methods of inoculating guinea-pigs with the virus of foot-and-mouth disease. *J. Compar. Path. & Ther.* 59: 42-47. Jan. 1949. 41.8 J82
- 45397 SOSZKA, S. Changements histologiques de la glande thyroïde du cobaye au cours du cycle sexuel. (Abs.) *Akad. Umiejetości. Wydz. Mat.-Przyrodniczy. Compt. Rend.* 1948(1): 14. Jan. 1948. 512 K85C

Miscellaneous

- 45398 GLYNN, J. K. The truth and facts about the guinea pig market. *Amer. Small Stock Farmer* 33(6): 8. Mar. 1949. 48.8 J82
- 45399 MARSH, A. F. Housing hamsters. *Amer. Small Stock Farmer* 33(6): 16. Mar. 1949. 48.8 J82
- 45400 SABIO MORA, J. Los cobayos. *Cult. Mod.* 30: 127-128. Apr. 1947. 15 C89

## POULTRY

Breeds and Breeding

- 45401 ALBERTELLI, L. F. Profitable poultry breeds. (In Italian.) *Avvenire Agr.* 57: 16-17. Jan. 1949. 16 Av9
- 45402 ALEXANDER, A. K. S. Keep [poultry] breeding stock fit. *Farmer & Stock-Breeder* 58: 739. Mar. 22, 1949. 10 F228
- 45403 ATKINS, H. Putting the standard bred back in Europe. *Amer. Poultryman* 12(4): 2, 23. Mar. 1949. 47.8 So86
- 45404 BLACKWELL, H. L. Select breeders as they grow. *Mod. Poultry Keeping* 60: 374. Mar. 30, 1949. 47.8 Eg3
- 45405 BRUNNER, E. Die Plymouth Rocks an der "Nationalen" in Luzern. *Geflügelhof* 12: 68-69. Feb. 4, 1949. 47.8 G276
- 45406 BUNGARTZ, M. A. H. Wie sollen bruteier beschaffen sein? *Kleintierzucht. Tierbörse* 3(53): 2. Feb. 10, 1949. 49 K672
- 45407 BYERLY, T. C. Purebreds, crosses and hybrids—they all have their points. *U. S. Egg & Poultry Mag.* 55(4): 18, 28-31. Apr. 1949. 286.85 Eg3
- 45408 CHAPMAN, E. H. Experiments with Legbar x Sussex on balancer. *Poultry Farmer [London]* 120(3114): 12-13. Mar. 11, 1949. 47.8 F312
- 45409 CHAVCHANIDZE, V. First experiment in raising Broad-Breasted Bronze turkeys and prospects for breeding them. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Sborn. Nauch.-Issled. Rabot* 1948: 45-48. 106 M852Sb
- 45410 COLES, R. A scientific method of breeding. *Mod. Poultry Keeping* 60: 342. Mar. 23, 1949. 47.8 Eg3
- 45411 FISCHER, O. Auswahl der zuchthähne. *Österr. Kleintierzüchter* 1949: 514. Feb. 1949. 49 Os7
- 45412 FUNK, E. M. The work of the Missouri Poultry Improvement Assn. *Amer. Egg & Poultry Rev.* 10(3): 64, 66. Mar. 1949. 47.8 Am38
- 45413 GERMAN, H. L., SHERWOOD, R. M., and JAMES, L. E. Gains, grades and profits with turkeys as affected by variety and sex. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1148, 2 p. Feb. 9, 1949. 100 T31P
- 45414 GOODALE, H. D. The next step in breeding. *Hatchery & Feed* 23(4): 46-48. (Cont.) Apr. 1949. 47.8 H28
- 45415 GRAY, J. R. Hybrid chicks promise greater day for poultry industry. *Farmer-Stockman* 62(4): 47. Apr. 1949. 6 Ok45
- 45416 GREENHALGH, J. Building up a flock of New Hampshire Reds. *Mod. Poultry Keeping* 60: 344-345. Mar. 23, 1949. 47.8 Eg3
- 45417 GRIFFIN, H. P. Which way shall we go? *Norbest Turkey News* 13(9): 1-2. Mar. 1949. 47.38 N75
- 45418 GUÉRANDE, C. La gatinaise. *Rustica* 22: 194, 199. Mar. 6, 1949. 14 R92
- 45419 HAGEDOORN, A. L. My inbred Polish hatch 100%. *Poultry Farmer [London]* 120(3118): 10. Apr. 8, 1949. 47.8 F312
- 45420 HARPER, J. A. The rate of response of turkey hens to artificial light as related to reproduction. *Poultry Sci.* 28: 312-314. Mar. 1949. 47.8 Am33P
- 45421 HEPBURN, J. M. Evolving laced feathered birds; Sebright Bantam male used to develop large Silver-Laced Wyandotte fowl. *Austral. Farm and Home* 58(2): 87-88. Feb. 1, 1949. 23 Au7
- 45422 HUTTON, J. Accept revised Bantam weights. *Poultry [London]* 104: 112. Feb. 8, 1949. 47.8 P869
- 45423 HUTTON, J. Rearing laying Bantams. II-III. *Poultry [London]* 104: 195, 239. Mar. 8, 22, 1949. 47.8 P869
- 45424 KAUDER, I. Mating [poultry], an art, a science, and a problem. (In Portuguese.) *Fazenda* 44(3): 38, 60-61. Mar. 1949. 6 H11P
- 45425 LANDAUER, W. The hatchability of chicken eggs as influenced by environment and heredity. *Conn. (Storrs) Agr. Expt. Sta. B.* 262, 231 p. Ref. Apr. 1948. 100 C76S
- A revision of Bulletins 216 and 236.
- 45426 MCGREGOR, R. C. R. O. P. responsibilities. *Canad. Poultry Rev.* 73(4): 37-39. Apr. 1949. 47.8 C16
- 45427 MACKLIN, H. P. Pigeon portraits. The Trumpeter. II. *Amer. Pigeon J.* 38: 34-36. Feb. 1949. 47.8 Am35
- 45428 MARSDEN, S. J. Small White turkey broilers—market sensation! More breast meat, high meat to feed ratio make turkey broilers a favorite. *Turkey World* 24(4): 10-11, 55-57. Apr. 1949. 47.38 T84
- 45429 MARTIN, W. W. Tomorrow's chicken will be a hybrid. *West. Farm Life* 51(6): 5, 37. Mar. 15, 1949. 6 R153
- 45430 MASHTALER, G. A. Poultry biology and problems in poultry breeding. (In Russian.) *Priroda* 37(12): 36-41. Ref. Dec. 1948. 410 P933
- 45431 MONTMAGNY, C. DE. Remarquables performances de ponte de la Sussex. *Vie à la Campagne* 38: 121-122. Apr. 1949. 80 V67
- 45432 MOSIMANN, E., and others. Die meinung der richter und anderer züchter über den heutigen stand der Rhode-Island-zucht. *Geflügelhof* 12: 139-143. Mar. 4, 1949. 47.8 G276
- A. Dick, M. Gauthey, H. Hiltbold, G. Muff, C. Quain, and F. Scherer, joint authors.
- 45433 MOSIMANN, E. Die schweizerischen Rhode Island. *Geflügelhof* 12: 131-132. Mar. 4, 1949. 47.8 G276
- 45434 MOSIMANN, E. Wo steht unsere Rhode-Island-zucht? *Geflügelhof* 12: 133-139. Mar. 4, 1949. 47.8 G276
- 45435 MUMMERT, C. How good are hybrid chickens? *Agr. Leaders' Digest* 30(3): 18-19, 43. Mar. 1949. 275.28 Am3
- 45436 THE NEW streamlined Brethren goose. *Canad. Poultry Rev.* 73(4): 8-9, 20. (To be cont.) Apr. 1949. 47.8 C16
- Breed developed at Colony Farm of the Brethren, Bright, Ontario.
- 45437 PORTA, L. Big profits in raising Indian Runner ducks. (In Italian.) *Allevatore* 5(1): 5. Jan. 2, 1949. 49 AL55



- 45438 POTTER, W. Jungle fowl *Gallus bankiva* 'Games'. Little red jungle chickens possess many traits and characteristics of modern day Games as a study of them will show the close observer. *Grit & Steel* 50(12): 61-62. Apr. 1949. 47.8 G88
- 45439 RADETZKY. Aylesbury-enten. Kleintierzucht. Tierbörse 3(52): 1. Jan. 25, 1949. 49 K672
- 45440 SCHEIDLER, S. Der intelligente brieftaubenzüchter sucht neue wege! Österr. Kleintierzüchter 1949: 521-522. Feb. 1949. 49 Os7
- 45441 SILK, W. H. Double-mating Indian Game; while good birds of both sexes can be produced by one pen, the Indian is an ideal subject for a study of cockerel- and pullet-breeding. *Poultry World* 84: 262. Apr. 8, 1949. 47.8 P8682
- 45442 SPENCER, G. W. Geese. *Young Farmer* 17: 61-63. Mar./Apr. 1949. 10 Y82  
Breeds and care.
- 45443 TANNAZ, F. Etwas über das "federbällchen" in der zwerghuhn-zucht die Zwergcochins. Geflügelhof 12: 70-72. Feb. 4, 1949. 47.8 G276
- 45444 USANDIVARAS, J. Las principales razas de gallinas de gran rendimiento. *Agr. Costarricense* 7: 31-32, 34-36. Jan. 1949. 8 Ag895
- 45445 VAITSMAN, J. On a partridge-hen hybrid. (In Portuguese.) *Chacaras e Quintais* 79: 302. Mar. 15, 1949. 9.2 C34
- 45446 VALLANCE, J. B. Colour can be reproduced. Habit of crossing can ruin good strains. Outstanding cocks come from all hues. *Grit & Steel* 50(12): 58-60. Apr. 1949. 57.8 G88
- 45447 VICKERY, L. E. The latest in poultry breeding—artificial insemination. *Prog. Farmer, Tex. Ed.* 64(4): 75. Apr. 1949. 6 T311
- 45448 WARREN, A. G. Putting hybrids under the microscope. *Amer. Poultryman* 12(4): 8, 16. Mar. 1949. 47.8 So86
- 45449 WILLIAMS, G. T. Judging Japanese. *Poultry World* 84: 262. Apr. 8, 1949. 47.8 P8682
- 45450 ZURTH, E. Die Horseman-taube. Kleintierzucht. Tierbörse 3(52): 2-3. Jan. 25, 1949. 49 K672

#### Feeds and Feeding

- 45451 ANDERSON, C. F., MCARDLE, A. A., and JANTKE, A. S. Results of poultry feeding trials. *So. Austral. Dept. Agr. J.* 52: 225-226. Dec. 1948. 23 So84
- 45452 ARGUELLES HUERTA, J. Aumento de la producción de huevo por medio de vitamina "D." *Campo [Tacuba]* 684, i. e. 683: 46-47. Jan. 31, 1949. 8 C157
- 45453 ARNOULD, C. Les bonnes rations passe-partout pour poules et canes pondeuses. *Acclimatation* 76: 47. Feb. 26, 1949. 14 Ac2
- 45454 BARRETT, F. N., CARD, C. G., and BERRIDGE, A. Feeding and confinement rearing experiment with turkeys—eleventh series. *Mich. Agr. Expt. Sta. Q. B.* 31: 287-303. Feb. 1949. 100 M58S
- 45455 BAZO, A. Dimensiones de los corrales para gallinas. *Rev. de Agr. [San José]* 21: 105-109, 111. Mar. 1949. 8 Es1  
Chiefly on the feeding of poultry.
- 45456 BECKER, J. S. Adlay and its importance in poultry raising. (In Portuguese.) *Rev. Rural Bras.* 29 (340): 32. Feb. 1949. 9.2 B733
- 45457 BERG, B. VAN DEN. Grass. (In Flemish.) *Pluimvee* 1949: 463, 465. Feb. 1949. 47.8 P72  
Poultry feed.
- 45458 BLAKELY, R. M., and ANDERSON, R. W. The influence of thiouracil on growth, fattening, feed consumption and thyroid weight of turkey broilers. *Poultry Sci.* 28: 185-188. Mar. 1949. 47.8 Am33P
- 45459 CARRICK, C. W. New trends in poultry nutrition. *Feed Bag* 25(3): 15, 67-68. Mar. 1949. 389.78 F32
- 45460 CARRICK, C. W. What should go into a bag of feed? *Grain & Feed J. Consolidated* 102(5): 26. Mar. 9, 1949. 298.8 G762  
Poultry nutrition.
- 45461 CHIPPENDALE, H. Best grass for heavy grazing. *Poultry Farmer [London]* 120(3116): 15. Mar. 25, 1949. 47.8 F32
- 45462 CHIPPENDALE, H. Cocksfoot should be kept separate. *Poultry Farmer [London]* 120(3118): 15. Apr. 8, 1949. 47.8 F312  
For poultry grazing.
- 45463 COMBS, G. F. Feeding management and rations for young chicks. *Md. Farmer* 33(3): 16-17. Mar. 1949. 6 M362
- 45464 ELEY, C. P., and HOFFMANN, E. Feed particle size as a factor in water consumption and elimination. *Poultry Sci.* 28: 215-222. Ref. Mar. 1949. 47.8 Am33P
- 45465 GILLIS, M. B., NORRIS, L. C., and HEUSER, G. F. The effect of phytin on the phosphorus requirement of the chick. *Poultry Sci.* 28: 283-288. Ref. Mar. 1949. 47.8 Am33P
- 45466 GISH, C. L., KUMMEROW, F. A., and PAYNE, L. F. Choline and ethanolamine requirements in the laying ration. *Poultry Sci.* 28: 305-306. Mar. 1949. 47.8 Am33P
- 45467 GOFMAN, M. Experiment in fattening Leg-horn and "Liven" cocks. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timiriazeva. Sborn. Studen. Nauch.-Issled. Rabot* 1948: 57-60. 106 M852Sb
- 45468 GRATON, A. Le grain dans l'alimentation des volailles. *B. des Agr.* 45(3): 16-17, 87. Mar. 1949. 7 B872
- 45469 GUÉRANDE, C. Poussin devient poulet. *Rustica* 22: 273. Apr. 3, 1949. 14 R92  
Feeding.
- 45470 GWIN, J. M., NEWELL, G. W., and JULL, M. A. Some observations concerning the period of fasting poultry before slaughter. *Poultry Sci.* 28: 229-231. Mar. 1949. 47.8 Am33P
- 45471 HALNAN, E. T. Dried grass as a poultry feeding stuff. *Accredited Poultry Breeders' Fed. Eng. and Wales. News Serv.* 1949: 12-13. Winter 1949. 47.8 Ac2
- 45472 HALPERN, G. R., MARCH, B., and BIELY, J. Stability and utilization of vitamin A emulsions in mixed feeds. *Poultry Sci.* 28: 168-172. Mar. 1949. 47.8 Am33P
- 45473 HODGSON, G. C. The problem of soft shelled eggs. *Weekly Mkt. News & Mod. Farmer* 27(11): 7. Mar. 17, 1949. 286.81 G762A  
Poultry feeding.
- 45474 HØIE, J. Experiments in feeding hens with preserved fish (coalfish preserved by formic acid, myosil) and with grass-meal. (In Norwegian.) *Norges Landbrukshøgsk. Meld.* 28: 463-494. 1948. 104 N762M  
English summary.
- 45475 INSKO, W. M. Practical methods of feeding distillers grain solubles to growing pullets. *Conf. Feeds Grain Distill. Proc.* 4: 51-53. 1949. 389.79 C765
- 45476 JOHNSON, E. L. Recent trends in poultry nutrition. *Grain & Feed J. Consolidated* 102(5): 25. Mar. 9, 1949. 298.8 G762
- 45477 JOSHI, B. C., SHAFFNER, C. S., and JULL, M. A. Efficiency of feed utilization in relation to body weight and egg production. *Poultry Sci.* 28: 301-302. Mar. 1949. 47.8 Am33P
- 45478 JULL, M. A. [Vitamin] B<sub>12</sub>—outstanding discovery. *World's Poultry Sci. J.* 5: 39. Jan./Mar. 1949. 47.8 W89
- 45479 LEE, C. E. What's new in poultry nutrition. *Everybodys Poultry Mag.* 53(11): 8, 22-23, 28. Dec. 1948. 47.8 F213P
- 45480 LLOYD-THOMAS, W. Raising goslings without rations. *Mod. Poultry Keeping* 60: 406. Apr. 6, 1949. 47.8 Eg3
- 45481 MCGINNIS, J. Utilization of yeast in chicken and turkey diets. *Feedstuffs* 21(14): 42-46, 48. Apr. 2, 1949. 286.81 F322
- 45482 MCGINNIS, J. Yeast in diets for poultry. *Chemurg. Digest* 8(4): 20-21. Apr. 1949. 381 N213Na
- 45483 MANN, T. B. How long is that greenfood fresh? *Poultry Farmer [London]* 120(3118): 12-13. Apr. 8, 1949. 47.8 F312
- 45484 MARGOLF, P. H. Grass is good for turkeys; turkeys are good for land. Which pasture crop is suited to your area? Here is information on grass values and management. *Turkey World* 24(4): 14, 17, 58-65. Apr. 1949. 47.38 T84
- 45485 MARSHALL, J. My pullets get no balancer. I. *II. Poultry [London]* 104: 259, 278. Mar. 29-Apr. 5, 1949. 47.8 P869
- 45486 MATTERSON, L. D. Distillers grain solubles in high energy, low fiber broiler rations. *Conf. Feeds Grain Distill. Proc.* 4: 54-59. 1949. 389.79 C765



- 45487 MILLER, J. P. Turkeys hog down wheat; in the wheat-growing West, wheat makes pasture. *Turkey World* 24(4): 18, 54-55. Apr. 1949. 47.38 T84
- 45488 MILLIGAN, J. L., and BRIGGS, G. M. Replacement of pantothenic acid by panthenol in chick diets. *Poultry Sci.* 28: 202-205. Mar. 1949. 47.8 Am33P
- 45489 NIELSEN, O. Vitamin A for poultry. (In Danish.) *Andelsbladet* 50: 251-252. Mar. 3, 1949. 280.28 An2
- 45490 ODRAILAG. Temas de avicultura: el establecimiento de raciones. Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad. 6(62): 20-21. Nov. 1948. 15 B14
- 45491 PATTON, A. R. The present status of protein nutrition. *Poultry Comment* 6: 1. Jan. 1949. 47.8 D92
- 45492 RAU, G. J., and PLATT, C. S. The effect of size of limestone grit particles in poultry rations. *Poultry Sci.* 28: 232-235. Mar. 1949. 47.8 Am33P
- 45493 SCOTT, H. M., and GLISTA, W. A. Growth and feed efficiency studies with broilers with special reference to the use of distillers grain solubles. *Conf. Feeds Grain Distill. Proc.* 4: 60-63. 1949. 389.79 C755
- 45494 SKOGLUND, W. C., and others. Carotene from vegetable leaf wastes compared with vitamin A in laying rations. *Poultry Sci.* 28: 298-300. Mar. 1949. 47.8 Am33P
- A. E. Tomhave, C. W. Mumford, E. G. Kelley, and M. E. Wall, joint authors.
- 45495 TYLER, C. The mineral requirements and metabolism of poultry. Calcium and phosphorus. II. *Nutr. Abs. & Rev.* 18: 473-483. Jan. 1949. 389.8 N95
- 45496 VANDERVORT, V. After 8 weeks—growing mash. *G. L. F. Week. Serv. Sched.* 13(41): 1, 4. Apr. 11, 1949. 280.28 G113W
- For chicks.
- 45497 WARD, G. W. Poultry diseases. VI. Avitaminosis "A." *Westralian Farmers' Co-op Gaz.* 15(365): 19, 21, 23-24. Jan. 1949. 280.28 W522
- ### Veterinary Medicine
- 45498 ASPLIN, F. D. Observations on the viability of Newcastle disease virus. *Vet. Rec.* 61: 159-160. Mar. 26, 1949. 41.8 V641
- 45499 AXWORTHY, R. Coccidiosis. I-II. *Poultry [London]* 104: 254, 274. Mar. 29-Apr. 5, 1949. 47.8 P869
- 45500 AXWORTHY, R. Preventing prolapsus. I, III. *Poultry [London]* 104: 128, 173. Feb. 15, Mar. 1, 1949. 47.8 P869
- Cloacal prolapse.
- 45501 BANKOWSKI, R. A., and others. Poultry disease research at University of California in 1948. *Nulaid News* 26(12): 24-25. Apr. 1949. 47.8 N917
- J. R. Beach, K. B. De Ome, and E. R. Quortrup, joint authors.
- 45502 BARTH, A., and HERMANN, A. Krummes brustbein. *Geflügelhof* 12: 73. Feb. 4, 1949. 47.8 G276
- 45503 BEACH, J. R. Avian pneumoencephalitis (Newcastle disease) in the California official egg laying contest during the 1947-48 test year. *Poultry Sci.* 28: 307-308. Mar. 1949. 47.8 Am33P
- 45504 BECKER, E. R. Report on thirty-five drugs and three plant materials tested against *Plasmodium lophurae* in the White Pekin duck. *Iowa State Col. J. Sci.* 23: 189-194. Jan. 1949. 470 Io9
- 45505 BÉDARD, J. A. E. Vos poussins sont très exposés aux maladies. *Avic. Québécois* 4(1): 27-28. Jan. 1949. 47.8 Av55
- 45506 BENEY, P. A. What causes cannibalism? Lack of occupation and protein deficiencies may be responsible for this vicious habit. *Poultry World* 84: 260. Apr. 8, 1949. 47.8 P8682
- 45507 BENNETT, P. Erysipelas in pheasants. *Vet. Student* 11: 83. Spring 1949. 41.8 V6425
- 45508 BIVINS, J. A. Erysipelas in turkeys—a case report. *Amer. Vet. Med. Assoc. J.* 114: 226-227. Apr. 1949. 41.8 Am3
- 45509 BLACKWELL, H. L. A "touch picture" of the skeleton; importance of correct body conformation and tells how to estimate a bird's value in this respect. *Mod. Poultry Keeping* 60: 408-409. Apr. 6, 1949. 47.8 Eg3
- 45510 BRANDLY, C. A. Newcastle disease. *Farm Q.* 4: 38-41, 121-124. Spring 1949. 6 F22995
- 45511 BRIZZEE, K. R. Studies on the origin of the sympathetic trunk ganglia in the chick. (Abs.) *Anat. Rec.* 103: 530. Mar. 1949. 447.8 An1
- 45512 BUCKNER, G. D., and others. Rate of growth and calcification of the sternum of male and female New Hampshire chickens having crooked keels. *Poultry Sci.* 28: 289-292. Mar. 1949. 47.8 Am33P
- W. M. Insko, Jr., A. H. Henry, and E. F. Wachs, joint authors.
- 45513 BUDET DOMINGUEZ, A. Conozca las enfermedades mas comunes en las aves. *Puerto Rico. Agr. Col. Ext. C. Inform.* 108, 9 p. Mar. 1948. 275.29 P96C
- 45514 BUTTNER, E. E. Roup in poultry. *So. African Poultry, Pigeon & Bird Mag.* 74(446): 15-16. Mar. 1949. 47.8 So83
- 45515 BUTTNER, E. E. Why are pigeons so hot? *So. African Poultry, Pigeon & Bird Mag.* 74(446): 29-30. Mar. 1949. 47.8 So83
- 45516 CALIFORNIA. DEPT. OF AGRICULTURE. DIV. OF ANIMAL INDUSTRY. Poultry disease activities. *Nulaid News* 26(12): 29. Apr. 1949. 47.8 N917
- 45517 CARPENTER, J. A., and others. Pullorum disease in turkeys. *Poultry Sci.* 28: 270-275. Ref. Mar. 1949. 47.8 Am33P
- G. W. Anderson, R. A. Johnston, and E. H. Garrard, joint authors.
- 45518 CHAMBON, Y., and ODIER, C. Effets comparés de l'administration locale répétée de folliculine et d'histamine sur la calcification chez le canard. *Soc. de Biol. Compt. Rend.* 142: 1520-1522. Dec. 1948. 442.9 P21
- 45519 CHAMBON, Y., and ODIER, C. Effets de l'administration locale répétée de folliculine sur la calcification chez le canard détectés par microphotométrie. *Soc. de Biol. Compt. Rend.* 142: 1516-1519. Dec. 1948. 442.9 P21
- 45520 COHRS, P. "Ein fall von plötzlichem herztod einer ente." Bemerkung zum vorstehenden aufsatz von H. Kurtze. *Deut. Tierärztl. Wchnschr.* 55: 201. July 1, 1948. 41.8 D482
- 45521 CORONEL, A. B. Newcastle disease in the Philippines with special reference to immunization. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1366-1373. 1948. 150 Im822*
- 45522 COUCH, J. R., and others. The effect of the injection of biotin and insulin on congenital deformities in the chick. *Poultry Sci.* 28: 276-282. Mar. 1949. 47.8 Am33P
- W. W. Cravens, C. A. Elvehjem, and J. G. Halpin, joint authors.
- 45523 COUCH, J. R., and others. Studies on the function of biotin in the domestic fowl. *Arch. Biochem.* 21: 77-86. Ref. Mar. 1949. 381 Ar2
- W. W. Cravens, C. A. Elvehjem, and J. G. Halpin, joint authors.
- 45524 DAUBNEY, R., MANSI, W., and ZAHARAN, G. Vaccination against fowl plague. *J. Compar. Path. & Ther.* 59: 1-18. Ref. Jan. 1949. 41.8 J82
- 45525 DUPERTHUIS, V. Les maladies du dindon. *Rustica* 22: 251, 253. Mar. 27, 1949. 14 R92
- 45526 ELFORD, W. J., and others. Physical properties of the viruses of Newcastle disease, fowl plague and mumps. *Brit. J. Expt. Path.* 29: 590-599. Ref. Dec. 1948. 448.8 B772
- C. M. Chu, I. M. Dawson, J. A. Dudgeon, F. Fulton, and J. Smiles, joint authors.
- 45527 ELLIS, C. C. Sulfonamides in coccidiosis of chicks. *Northeast. Poultryman* 51: 11. Jan. 1949. 47.8 N44
- 45528 FLÜCKIGER, G. Ueber die Staatliche beitragsleistung an schäden zufolge geflügelseuchen. *Geflügelhof* 12: 56-57. Jan. 28, 1949. 47.8 G276
- 45529 FRISCHBIER, and RINDFLEISCH-SEYFARTH, M. Die Nierenschädigungen des hausgeflügels unter dem gesichtspunkt der allgemeinen nephritisforschung. *Deut. Tierärztl. Wchnschr.* 55: 161-165. Ref. June 1, 1948. 41.8 D482
- 45530 GALLIEN, L., and PERO, R. Effets du thiouracil sur le plumage des poussins de la race Fave-rolles saumonée. *Paris. Acad. des Sci. Compt. Rend.* 228: 866-867. Mar. 7, 19. 505 P21
- 45531 GARDINAZZI, E. When will the poultry diseases stop? (In Italian.) *Agr. Trevisano* 4(16): 2. Oct. 30, 1948. 16 Ag8258
- 45532 GARRARD, E. H. Examination of suspicious pullorum reactors. *Canad. Poultry Rev.* 73(4): 31-32. Apr. 1949. 47.8 C16



- 45533 GERMAN, H. L., and others. Further evidence of the role of lysine in the formation of normal Bronze turkey feathers. *Poultry Sci.* 28: 165-167. Mar. 1949. 47.8 Am33P
- B. S. Schweigert, R. M. Sherwood, and L. E. James, joint authors.
- 45534 GORDON, R. F. Hygiene and health; good sanitation and sensible routine precautions are not purely temporary measures against disease. *Poultry World* 84: 193. Mar. 18, 1949. 47.8 P8682
- 45535 HALE, R. W. What causes a flat-sided egg? *Poultry Farmer* [London] 120(3117): 12-13. Apr. 1, 1949. 47.8 F312
- 45536 HARDIN, C. E. Coccidiosis can be controlled in baby chick flock. *Agr. Leaders' Digest* 30(3): 46. Mar. 1949. 275.28 Am3
- 45537 HAYS, F. A., WHITE, C. H., and SANBORN, R. Density of feather pigment in Rhode Island Reds. *Amer. Nat.* 82: 107-117. Mar./Apr. 1948. 470 Am36
- 45538 HENDERSON, W. What the disease records show. *Washcoegg* 26(11): 6, 11. Apr. 1949. 47.8 W27
- 45539 HERTZ, R., DHYSE, F. G., and TULLNER, W. W. The elevation of plasma riboflavin in estrogen treated female chicks. *Endocrinology* 44: 283-286. Mar. 1949. 448.8 En2
- 45540 HUSTON, T. M., and WHEELER, R. S. Effect of synthetic thyroprotein on seasonal variation in volume and concentration of cock semen. *Poultry Sci.* 28: 262-269. Ref. Mar. 1949. 47.8 Am33P
- 45541 JAAP, R. G. Teaching poultry biology at the college freshman level. *Poultry Sci.* 28: 240-243. Mar. 1949. 47.8 Am33P
- 45542 KÖHLER, H. Tuberkulose bei junghühnern. *Deut. Tierärztl. Wchnschr.* 55: 118. Apr. 15, 1948. 41.8 D482
- 45543 KRANEVELD, F. C., and NASOETION, A. Immunization against pseudo-fowl pest. (In Dutch.) *Nederland. Indische Bl. v. Diergeneesk.* 55: 255-410. Dec. 1948. 41.8 V51
- Contents: I, Tests with vaccine No. 45; II, Some tests with modification of vaccine No. 45 (vaccines Nos. 45/a and 45/b); III, Prophylactic tests with some differently modified vaccines Nos. 48 and 49.
- English summary.
- 45544 KREJCI, L. E., ROSS, M. H., and SWEENEY, L. Plasma changes in fowls with a transmissible multiple lymphoma. *Cancer Res.* 8: 575-580. Ref. Nov. 1948. 448.8 C16
- 45545 KURTZE, H. Ein fall von "plötzlichem herztod" bei einer ente. *Deut. Tierärztl. Wchnschr.* 55: 201. July 1, 1948. 41.8 D482
- 45546 LEE, C. D. Avian tuberculin testing in Iowa—1946-1948. *Amer. Vet. Med. Assoc. J.* 114: 228-229. Apr. 1949. 41.8 Am3
- 45547 LEE, C. D. Good sanitation is the first step in controlling Newcastle disease. *U. S. Egg & Poultry Mag.* 55(5): 14-15, 24. May 1949. 286.85 Eg3
- 45548 LEVI-MONTALCINI, R. The origin of the visceral column (of Terni) in the spinal cord of the chick embryo. (Abs.) *Anat. Rec.* 103: 549-550. Mar. 1949. 447.8 An1
- 45549 LISSOT, G. Le coligranulome des poules (maladie de Hjärre). *Acad. Vét. de France. B.* 22: 92-96. Jan. 1949. 41.9 R24
- 45550 LUCAM, F. Existence de foyers de peste aviaire dans le Sud-Est. *Acad. Vét. de France. B.* 22: 67-70. Jan. 1949. 41.9 R24
- 45551 LUCAM, F. Identification de la peste aviaire dans la région lyonnaise. *Soc. de Biol. Compt. Rend.* 142: 1502-1503. Dec. 1948. 442.9 P21
- 45552 LUCAM, F. La peste aviaire en France. Sa prophylaxie par vaccination à partir du virus de culture. *Paris. Acad. des Sci. Compt. Rend.* 228: 722-724. Feb. 21, 1949. 505 P21
- 45553 LUCAS, A. M. Comparison of lymphoid tissues in pancreas of ducks and chickens and the relationship of lymphomatosis. (Abs.) *Anat. Rec.* 103: 485. Mar. 1949. 447.8 An1
- 45554 MCCALLUM, A. M., and BLAXLAND, J. D. A case of suspected poisoning of geese, possibly caused by the feeding of wet brewers' grains. *Vet. Rec.* 61: 204. Apr. 16, 1949. 41.8 V641
- 45555 MCCARTNEY, M. G., and SHAFFNER, C. S. Chick thyroid size and incubation period as influenced by thyroxine, thiouracil and thyroprotein. *Poultry Sci.* 28: 223-228. Ref. Mar. 1949. 47.8 Am33P
- 45556 MOLGARD, P. C. Disease service a "must" in the modern hatchery setup. Do you have diagnostic service? This will help you set it up. *Hatchery & Feed* 23(4): 12-13, 42-43. Apr. 1949. 47.8 H28
- 45557 NAROTSKY, S., and HAWLEY, G. E. Swine erysipelas in turkeys infects man with erysipeloid. *M. S. C. Vet.* 9: 50. Winter 1949. 41.8 M582
- 45558 NOWINSKI, W. W., and EDWARDS, T. P. Oxygen uptake of developing limb buds of the chick embryo. (Abs.) *Anat. Rec.* 103: 491-492. Mar. 1949. 447.8 An1
- 45559 O'CONNOR, R. J. Effect of acridine compounds on the respiration of the brain of the six-day chick embryo. *Nature* [London] 163: 405. Mar. 12, 1949. 472 N21
- 45560 OLSEN, M. W. Cleavage of follicular ova in the chick. (Abs.) *Anat. Rec.* 103: 492. Mar. 1949. 447.8 An1
- 45561 PARAENSE, W. L. The latent parasitemia in the infection of *Gallus gallus* by *Plasmodium lophurae*. (In Portuguese.) *Inst. Oswaldo Cruz Mem.* 46: 73-87. Mar. 1948. 448.9 In74
- English summary.
- 45562 PATAY, R. Présentation d'un gallinacé gyn-andromorphe. *Soc. Sci. de Bretagne. B. (Sci. Math., Phys. et Nat.)* 22: 31-32. 1947, pub. 1948. 505 R292
- 45563 PERUCHON DE BROCHARD, J. Dépistage et guérison de la coccidiose en Angleterre et aux États-Unis. *Voix des Colons* 31(1496): 1. Mar. 21, 1949. 24 V85
- In poultry.
- 45564 POWELL-OWEN, W. Feather-growth and pigment. *Poultry World* 84: 197. Mar. 18, 1949. 47.8 P8682
- 45565 POWELL-OWEN, W. Foster natural resistance. *Poultry World* 84: 219. Mar. 25, 1949. 47.8 P8682
- 45566 ROSENWALD, A. S. Poultry disease control in California. *Poultry Sci.* 28: 173-181. Mar. 1949. 47.8 Am33P
- 45567 SCHOENING, H. W., and others. Vaccination against Newcastle disease with formalin-inactivated, commercially produced vaccines. *Amer. J. Vet. Res.* 10: 176-182. Ref. Apr. 1949. 41.8 Am3A
- O. L. Osteen, D. H. Legenhausen, W. A. Anderson, and W. J. Hall, joint authors.
- 45568 SHARMA, G. P. Note on an abnormal intra-follicular ovum. *Poultry Sci.* 28: 310-312. Mar. 1949. 47.8 Am33P
- 45569 SIEGER, C. Sulfonamidbehandlung der kückenkokzidiose. *Deut. Tierärztl. Wchnschr.* 55: 200. July 1, 1948. 41.8 D482
- 45570 STADELMAN, W. J., BOUCHER, R. V., and CALLENBACH, E. W. Influence of toe removal on calcification and body weight of poults and chicks. *Poultry Sci.* 28: 161-164. Mar. 1949. 47.8 Am33P
- 45571 STAHELIN, H. Hat das huhn geruchssinn für futter? *Geflügelhof* 12: 89. Feb. 11, 1949. 47.8 G276
- 45572 STAFFE, A. Die symptome der wichtigsten mangelkrankheiten des hühnes. *Geflügelhof* 12: 52-53, 55. Jan. 28, 1949. 47.8 G276
- 45573 STEVENSON, W. G. Feed, sulfa drugs and infectious disease. *Milling & Feed* 30(4): 18, 42. Apr. 1949. 298.8 C162
- For control of coccidiosis and leukosis in poultry.
- 45574 STURKIE, P. D. The electrocardiogram of the chicken. *Amer. J. Vet. Res.* 10: 168-175. Apr. 1949. 41.8 Am3A
- 45575 TALIAFERRO, W. H., and TALIAFERRO, L. G. The role of the spleen and lymphoid-macrophage system in the quinine treatment of gallinaceum malaria. III. The action of quinine and of immunity on the parasite. *J. Infect. Dis.* 84: 187-220. Ref. Mar./Apr. 1949. 448.8 J821
- 45576 TREBBI, T. Avoid the damage. (In Italian.) *Agr. Bresciana* 2(10): 1. Mar. 7, 1949. 16 Ag89
- Poultry disease control.
- 45577 U. S. BUR. OF ANIMAL INDUSTRY. Official control of pullorum disease, in chickens, in the United States. Washington? 1949? 1 p. 1.972 A20f2
- 45578 USUELLI, F. Recent discoveries on the secondary extragenital sexual characters; biological significance and zootechnical perspectives. (In Italian.) *Riv. di Zootec.* 22: 7-11. Jan. 1949. 49 R52
- Observations on poultry.
- 45579 VAN DER MERWE, J. A. Dermatitis in late-hatched chickens. *S. A. P. A. Poultry B.* 12(136): 7, 9. Jan. 1949. 47.8 So89



- 45580 WATERS, N. F., and BYWATERS, J. H. Influence of age of chickens at contact exposure on incidence of lymphomatosis. *Poultry Sci.* 28: 254-261. Ref. Mar. 1949. 47.8 Am33P
- 45581 WEAVER, L. E. Vaccinating hens for Newcastle disease. *Amer. Agr.* 146: 212-213. Apr. 2, 1949. 6 Am3
- 45582 WILSON, M. E. Certain aspects of the developmental and definitive cytology of the chick pituitary gland. (Abs.) *Anat. Rec.* 103: 521-522. Mar. 1949. 447.8 An1
- 45583 WILSON, M. E. Cytology of the embryonic and definitive chick pituitary gland. (Abs.) *Anat. Rec.* 103: 588-589. Mar. 1949. 447.8 An1
- 45584 WINGARD, S. B. Get the right kind of pullet maturity. *East. States Coop.* 25(3): 5. Mar. 1949. 280.28 Ea7
- 45585 WOLFE, D. M., KORNFIELD, L., and MARKHAM, F. S. Simplified indirect complement-fixation test applied to Newcastle disease immune avian serum. *Soc. Expt. Biol. & Med. Proc.* 70: 490-494. Mar. 1949. 442.9 Sol
- 45586 WOODARD, T. M., JR. The mitotic index in the chick embryo. *Amer. Nat.* 82: 129-136. Mar./Apr. 1948. 470 Am36
- 45587 ZICH, G. E. P. P. S. (plumage-pigment selection) for held-over hens. *Poultry Comment* 6: 2-3. Jan. 1949. 47.8 D92
- Miscellaneous
- 45588 ALEXANDER, A. K. S. Rearing [chicks] in easy stages. *Farmer & Stock-Breeder* 63: 537. Mar. 1, 1949. 10 F228
- 45589 ALP, H. H. Floor space for broilers. *Hoard's Dairyman* 94: 314. Apr. 10, 1949. 44.8 H65
- 45590 AMSDEN, J. Best system of brooding. *Mod. Poultry Keeping* 60: 376-377. Mar. 30, 1949. 47.8 Eg3
- 45591 ATKINS, H. 10 hints for prospective APA judges. *Amer. Poultryman* 12(3): 14. Feb. 1949. 47.8 So86
- 45592 AVERY, T. B. What the G. I. student wants in poultry instruction. *Poultry Sci.* 28: 182-184. Mar. 1949. 47.8 Am33P
- 45593 BARKER, MRS. B. Detenga la caída de las plumas en el invierno. *Campo [Guadalajara]* 17(2): 6. (To be cont.) Feb. 1949. 8 G76
- 45594 BENEF, P. A. Hatching duck eggs; success depends to a large extent on the provision of sufficient moisture. *Poultry World* 84: 199. Mar. 18, 1949. 47.8 P8682
- 45595 BICE, C. M. Squab production. *Hawaii. U. Agr. Ext. C.* 262, 4 p. Feb. 1949. 275.29 H312Ac
- 45596 BLAKELY, R. M. Total confinement rearing. *Canad. Poultry Rev.* 73(4): 40-41. Apr. 1949. 47.8 C16
- 45597 BLOUNT, W. P. America's leading laying test; an exclusive story of "Storrs." *Poultry Indus.* 14: 117-119. Feb. 18, 1949. 47.8 P8644
- 45598 BROWN, T. T. Avoid common brooding mistakes. *South. Planter* 110(3): 8. Mar. 1949. 6 So89 Chick care.
- 45599 CALIFORNIA UNIVERSITY. DIV. OF POULTRY HUSBANDRY. Research progress—1948. *Nulaid News* 26(12): 26-28. Apr. 1949. 47.8 N917
- 45600 CANESTRARI, R. The duck. (In Italian.) *Allevatore* 5(4): 5. Jan. 23, 1949. 49 AL55
- 45601 CANESTRARI, R. Potentialities of rural poultry farms. (In Italian.) *Allevatore* 5(3): 6. Jan. 16, 1949. 49 AL55
- 45602 CANESTRARI, R. Redoubling egg production. (In Italian.) *Allevatore* 5(2): 6. Jan. 9, 1949. 49 AL55
- 45603 CANESTRARI, R. The turkey. (In Italian.) *Allevatore* 4(5): 7. Jan. 30, 1949. 49 AL55
- 45604 CAWSTON, B. L. Sexing day-old Brown Leghorns. *Poultry Indus.* 14: 131. Feb. 18, 1949. 47.8 P8644
- 45605 CLIFTON, A. M. T. Treatment of poultry house floors; experiments with hydrated lime. *So. Austral. Dept. Agr. J.* 52: 281-282. Jan. 1949. 23 So84 In poultry litter.
- 45606 COOPER, G. H. Poultry; the management of young stock. *Rhodesia Agr. J.* 45: 418-421. Sept./Oct. 1948. 24 R34
- 45607 DAY, E. B. Birds of paradise. New York, T. Gaus' Sons, 1949. 129 p. 47 D33 Poultry.
- 45608 DEARSTYNE, R. S. How to keep chicks alive and well. *Carolina Co-op.* 27(2): 16-17. Apr. 1949. 72.8 N81
- 45609 DETRY, E. Quand les poules ne pondent pas. *Courrier Hort.* 10: 731-733. Dec. 1948. 80 C834
- 45610 DUQUESNE, L. Aviculture utilitaire. *Courrier Hort.* 11: 42. Jan. 1949. 80 C834
- 45611 FOISY, L. Le débutant au contrôle de la ponte. *Avic. Québécois* 4(2): 5-6. Feb. 1949. 47.8 Av55 On keeping records.
- 45612 FOSTER, D. C. Brooding, rearing chicks for profitable production. *Manitoba Co-op.* 6(36): 6. Apr. 7, 1949. 280.28 M31
- 45613 GODFREY, C. G. Produce more eggs. *Indian Farming* 9: 373-376. Sept. 1948. 22 In283
- 45614 GRATON, A. Quelques négligences à éviter dans l'élevage des poussins. *B. des Agr.* 45(4): 16. Apr. 1949. 7 B872
- 45615 GRISOLIA, E. Cría de patos. *Campo y Suelo Argentino* 32(387): 48-50. Jan. 1949. 9 C15
- 45616 GUÉRANDE, C. L'entraide en aviculture. *Rustica* 22: 167. Feb. 27, 1949. 14 R92
- 45617 GUÉRANDE, C. Pour aider la sélection baguez vos poussins. *Rustica* 22: 251. Mar. 27, 1949. 14 R92
- 45618 GUÉRANDE, C. Utilisez la dinde pour vos couvées. *Rustica* 22(11): 209-210. Mar. 13, 1949. 14 R92
- 45619 HALBROOKS, L. V. The story of Dooley's chicks. *South. Agr.* 78(3): 16-17. Mar. 1949. 6 So83A Management of a poultry farm.
- 45620 HALL, M. D. Turkey raising in Victoria. *Victoria. Dept. Agr. J.* 47: 13-20. Jan. 1949. 23 V66J
- 45621 HALLORAN, H. The Association's laboratory. *Nulaid News* 26(12): 40. Apr. 1949. 47.8 N917 Poultry Producers of Central California.
- 45622 HARPER, J. A. Turkey egg production losses due to broodiness and pausing are costly. *Norbest Turkey News* 13(7): 2-3. Jan. 1949. 47.38 N75
- 45623 HEADEY, C. Planned method of rearing poultry. *B. C. Farmer & Gard.* 4(9): 3. Feb. 1949. 7 F86
- 45624 HOUT, F. VAN. Une source de précieux enseignements: les résultats du 13me Concours National Officiel de Ponte de Roulers. *Courrier Hort.* 11: 125-126. Feb. 1949. 80 C834
- 45625 HOWES, H. Brooding and feeding the goslings. *Poultry [London]* 104: 258. Mar. 29, 1949. 47.8 P869
- 45626 HOWES, H. Good demand for early goslings. *Poultry [London]* 104: 132. Feb. 15, 1949. 47.8 P869
- 45627 HOWES, H. Turkeys start laying this month. *Poultry [London]* 104: 216. Mar. 15, 1949. 47.8 P869
- 45628 HUERTA, A. Producción de aves para el consumo. *Campo y Suelo Argentino* 32(387): 38-39. Jan. 1949. 9 C15
- 45629 HUTTAR, J. Poultry rearing problems. *G. L. F. Week. Serv. Sched.* 13(44): 1-2. May 2, 1949. 280.28 G113W
- 45630 JAMES, R. S. Importance of sex determination of chickens. (In Afrikaans.) *Landbouweekblad* 30 (1545): 36-37. Feb. 23, 1949. 24 L232
- 45631 JULL, M. A. Brooding and feeding poults. *South. Planter* 110(3): 10, 32-33. Mar. 1949. 6 So89
- 45632 KENNARD, D. C., BETHKE, R. M., and CHAMBERLIN, V. D. Built-up floor litter improves the hatch. *Farm & Home Res. [Ohio Sta.]* 34(256): 4-7. Jan./Feb. 1949. 100 Oh3S
- 45633 LEE, A. R. Another phase of the poultry industry. *Poultry Comment* 6: 4. Jan. 1949. 47.8 D92 Fowl other than chickens.
- 45634 MCIVER, W. L. Household poultry: hens or pullets for egg production? Culling non-productive hens, cleaning housing for the new season. *New Zeal. J. Agr.* 78: 85-86. Jan. 15, 1949. 23 N48J
- 45635 MILLER, J. P. Wash. reports on wing-clipping. *Turkey World* 24(4): 33, 36, 38, 40. Apr. 1949. 47.38 T84
- 45636 MISTRIC, W. J., JR. Turkeys for the table the year round. *Farm & Ranch* 68(4): 43. Apr. 1949. 6 T31
- 45637 MONTFORD, E. Évitez les erreurs dans l'élevage du canard. *Acclimatation* 76: 59. Mar. 12, 1949. 14 Ac2



- 45638 MOORE, A. C. Avoid sudden changes when rearing chicks. Poultry [London] 104: 192. Mar. 8, 1949. 47.8 P869
- 45639 MOORE, A. C. Choose your method of rearing carefully. Poultry [London] 104: 236. Mar. 22, 1949. 47.8 P869
- 45640 MOORE, A. C. Good rearing calls for continual growth. Poultry [London] 104: 276. Apr. 5, 1949. 47.8 P869
- 45641 MOORE, A. C. Incubator-plus-broodies scheme for goose eggs. Poultry [London] 104: 172. Mar. 1, 1949. 47.8 P869
- 45642 MOORE, A. C. Stock identification serves a double purpose. Poultry [London] 104: 130. Feb. 15, 1949. 47.8 P869
- 45643 MOORE, A. C. Two-man intensive brooding system. Poultry [London] 104: 108. Feb. 8, 1949. 47.8 P869
- 45644 MOORE, A. C. When chicks are weaned from artificial heat. Poultry [London] 104: 256. Mar. 29, 1949. 47.8 P869
- 45645 MORAWITZ, J. JR. Interessantes zum nachdenken über entenbrut. Österr. Kleintierzüchter 1949: 515. Feb. 1949. 49 Os7
- 45646 MOXNESS, J. B. Incubation controls improve hatch. Hatchery & Feed 23(4): 14, 40-42. Apr. 1949. 47.8 H28
- 45647 NAETHER, C. The care of pigeons. All-Pets Mag. 20(3): 87. Mar. 1949. 48.8 AL5
- 45648 NICHOLS, J. F. The new cold room method of broiler-fryer production. Versailles, Mo., Natl. Broiler Inst., 1949. 63 p. 47 N51
- 45649 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Rear chickens naturally. North. Ireland. Min. Agr. Monthly Rpt. 23: 335. Mar. 1949. 256.13 Ag82M
- 45650 PAREDES, J. C. Adelantos de la avicultura panameña; una excepción que puede generalizarse. Rev. de Agr., Com. e Indus. [Panama] 8(89): 7-8. Jan. 1949. 8 R3291
- 45651 PARNELL, E. D. Will your turkeys live or die? South. Agr. 78(3): 20, 80. Mar. 1949. 6 So83A
- Confinement rearing.
- 45652 PESCE, P. A. The guinea fowl. (In Italian.) Allevatore 5(7): 5. Feb. 13, 1949. 49 AL55
- 45653 PORTA, L. Profitable duck raising. (In Italian.) Riv. di Zootec. 22: 31-32. Jan. 1949. 49 R52
- 45654 POWELL-OWEN, W. Culling is a "sore spot," but the truth is that every surplus bird is robbing the replacement stock of its proper rations. Poultry World 84: 260. Apr. 8, 1949. 47.8 P8682
- 45655 POWELL-OWEN, W. Moving growers to night arks. Poultry World 84: 240. Apr. 1, 1949. 47.8 P8682
- 45656 RAVN, L. Directions for raising chicks. (In Danish.) Tidsskr. for Husholdning 28: 27-28. Mar. 9, 1949. 321.8 T43
- 45657 ROBINSON, C. Battery layers. Utah Farmer 68(15): 5. Mar. 26, 1949. 6 D45
- 45658 RODRIGUEZ, J. I. Organización moderna del pedigree y selección en avicultura. Agricultura [Madrid] 18: 14-21. Jan. 1949. 15 Ag84
- 45659 RODWELL, C. Why not a farm competition? An alternative to the proposed Lancashire recording scheme. Poultry World 84: 196. Mar. 18, 1949. 47.8 P8682
- 45660 SALAZAR, Z. Avicultura murciana. Murcia, Spain. Cám. Ofic. Agr. B. 76: 5-8. Feb. 1949. 15 M93
- 45661 SAMAT, M. La sélection des pondeuses. Réveil Agr. 58: 72. Mar. 1, 1949. 14 R322
- 45662 SHERMAN, C. B. Egg crop has surprises. Better Crops with Plant Food 33(3): 22, 47-48. Mar. 1949. 6 B46
- 45663 SMITH, G. W. Management, nutrition and sanitation in fowls and turkeys. Agr. Gaz. N. S. Wales 60: 51-52. Jan. 1949. 23 N472
- 45664 SMITH, J. B. Pointers for turkey beginners. Farmer's Mag. 46(3): 74. Mar. 1949. 7 C165
- 45665 SQUIRES, G. A. Seven secrets of hover rearing. Poultry Farmer [London] 120(3116): 10. Mar. 25, 1949. 47.8 F32
- 45666 STAEHELIN. Bewegung zur winterszeit. Geflügelhof 12: 87. Feb. 11, 1949. 47.8 G276
- 45667 STRANSKY, E. Natürliche kunstbrut, die nichts kostet. Österr. Kleintierzüchter 1949: 514-515. Feb. 1949. 49 Os7
- Chickens.
- 45668 SUTTER, C. M. The hen, she's a changed gal! Farmer [St. Paul], Gen. Ed. 67(7): 74, 77, 79. Apr. 2, 1949. 6 F2211
- 45669 TAYLOR, L. W. Today's poultry problems and tomorrow's management. Nulaid News 26(12): 9-11. Apr. 1949. 47.8 N917
- 45670 TURNILL, L. How to arrange a bare run farm. Poultry Farmer [London] 119(3098): 8-9. Nov. 19, 1948. 47.8 F312
- 45671 TURNILL, L. How to rear a good chick. Poultry Farmer [London] 120(3115): 10; (3116): 11; (3117): 11; (3118): 11. Mar. 25-Apr. 8, 1949. 47.8 F312
- 45672 U. S. BUR. OF ANIMAL INDUSTRY. Hatcher-ies and dealers participating in the National Poultry Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 36, rev., 77 p. Jan. 1949. 1.9 An52Ah
- Second supplement, April 1949.
- 45673 U. S. BUR. OF ANIMAL INDUSTRY. Hatcher-ies and dealers participating in the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 105, rev., 19 p. Feb. 1949. 1.9 An52Ah
- Changes to March 1, 1949, and to April 5, 1949, are reported in supplements.
- 45674 U. S. BUR. OF ANIMAL INDUSTRY. Turkey breeders participating in the U. S. Record of Performance breeding stage of the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 110, rev., 4 p. Mar. 1949. 1.9 An52Ah
- 45675 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Poultry goals, by D. Termohlen and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11
- Egg production.
- 45676 VANHENDE, J. La question des parcours. Élevages Mod. 1949(25): 7. Jan. 1949. 49 EL22
- 45677 VAN SICKLE, H. G. Report on Farm Supply Department. Eggsaminer 26(2): 14, 18. Feb. 1949. 286.85 Eg32
- Pacific Cooperative Poultry Producers.
- 45678 WILEY, W. H. Sex linking of chicks explained. Coop. Poultryman 13(12): 8. Dec. 1948. 47.8 C782

## RABBITS

## Breeds and Breeding

- 45679 ANTES, A. Unsere weissen Wiener. Kleintierzücht. Tierbörse 3(53): 7. Feb. 10, 1949. 49 K672
- 45680 ARNOULD, C. Comment bien conduire un élevage de lapins Angoras. Acclimatation 76: 77. Mar. 26, 1949. 14 Ac2
- 45681 COTRILL, F. F. Profit or loss from Angoras. Angora Rabbit Mag. 4(9): 5. Apr. 1949. 40.28 An42
- 45682 DLUGOS, J. T. Barking up the wrong tree. Angora Rabbit Mag. 4(8): 3, 18. Mar. 1949. 40.28 An42
- 45683 ELSTON, W. H. Checkered since 1947—why? Small Stock Mag. 33(4): 8. Apr. 1949. 48.8 P442
- 45684 GLIEWE, O. Etwas über blaue Wiener. Kleintierzücht. Tierbörse 3(52): 6-7. Jan. 25, 1949. 49 K672
- 45685 HOULDSOON, E. C. Hybrids or purebreds? Calif. Rabbit News 9(12): 6-7. Mar. 1949. 40.28 C12
- 45686 HOWDEN, A. S. Factors for fortune in breeding Tans. Fur & Feather 112: 45, 53. Jan. 28, 1949. 49 F96
- 45687 KENT, G. A. The English rabbit. All-Pets Mag. 20(3): 91. Mar. 1949. 48.8 AL5
- 45688 KOEPPEN, E. The question on a standard wool and body type of Angoras. Angora Rabbit Mag. 4(9): 2. Apr. 1949. 40.28 An42
- 45689 MARTIN, D. D. Importance of seasonal breeding. Angora Rabbit Mag. 4(9): 10. Apr. 1949. 40.28 An42
- 45690 ORTHOF, R. Rammeler-auslese! Österr. Kleintierzüchter 1949: 516-517. Feb. 1949. 49 Os7
- 45691 OTTO, W. Beginners beware. Angora Rabbit Mag. 4(9): 1, 15-16. Apr. 1949. 40.28 An42
- Angora rabbit raising.
- 45692 PRESCOTT, W. Can American Blues make a comeback? Natl. Rabbit Raiser 4(7): 27. Mar. 1949. 40.28 R11



- 45693 PYKE, R., and Lyster, M. Have a go with Ermine Rex. *Fur & Feather* 112: 92. Feb. 18, 1949. 49 F96
- 45694 SMITH, A. E. Big rabbits need big houses. *The Beveren. Fur & Feather* 112: 153. Mar. 25, 1949. 49 F96
- 45695 WAESBERGHE, A. VAN. Le lapin Argente de Champagne, fourrure exceptionnelle. *Courrier Hort.* 10: 672-673. Nov. 1948. 80 C834
- 45696 WAESBERGHE, A. VAN. Lapins de Chine. *Courrier Hort.* 10: 736-737. Dec. 1948. 80 C834
- 45697 WAESBERGHE, A. VAN. Parmi les beaux lapins de France le Fauve de Bourgogne. *Courrier Hort.* 11: 45-46. Jan. 1949. 80 C834
- 45698 WOODGATE, F. G. Stop mixing the colours in the breeding pen and Sables will be top of the class. *Fur & Feather* 112: 141. Mar. 18, 1949. 49 F96

#### Feeds and Feeding

- 45699 BUSCH, E. A. Zubereitung des weichfutters. *Kleintierzucht. Tierbörse* 3(52): 6. Jan. 25, 1949. 49 K672
- For rabbits.
- 45700 GAUBE, G. Fütterung einmal vom kaninchen aus gesehen. *Österr. Kleintierzüchter* 1949: 517-518. Feb. 1949. 49 Os7
- 45701 HEUBÖCK, E. Winterliches grünfutter für kleintiere. *Österr. Kleintierzüchter* 1949: 503-504. Jan. 1949. 49 Os7
- Mistletoe as feed for rabbits and goats.
- 45702 PEDERSEN, P. J. Vitamin need for rabbits. (In Danish.) *Aalborg Amtskreds. Medlemsbl.* 24(3): 1-2. Mar. 1949. 40.29 Aa4
- 45703 SCHÜRCH, A. Die theoretischen Grundlagen der kaninchenfütterung. *Schweiz. Landw. Monatsh.* 27: 41-65. Ref. Feb. 20, 1949. 17 Sch93
- 45704 TEMPLETON, G. S. Feeding a herd of rabbits. *Standard Rabbit J.* 22(7): 3-5. Apr. 1949. 40.28 St2
- 45705 WALSH, M. T. The lowdown on feeding methods for rabbits. *Calif. Farmer, North. Ed.* 190: 269. Mar. 12, 1949. 6 C126

#### Veterinary Medicine

- 45706 BLAIN, M. Maladies du lapin. *Pelleteries du Québec* 14(4): 10. Feb. 1949. 412.628 P36
- 45707 BLAIN, M. Maladies du lapin. La coccidiose. *Pelleteries du Québec* 14(3): 9. Jan. 1949. 412.628 P36
- 45708 BUIS, R. Les affections à "gros ventre" chez le lapin. *Réveil Agr.* 58: 72-73. (Cont.) Mar. 1, 1949. 14 R322
- 45709 HATZFELD, G. H. The problem of rabbits with closed eyes. (In Portuguese.) *Chacaras e Quintais* 79: 329-330. Mar. 15, 1949. 9.2 C34
- 45710 MAYER, G., and KLEIN, M. Développement de la glande mammaire de la lapine au cours d'une phase de pseudo-grossesse, obtenue et maintenue par implantation sous-cutanée d'oestrogène. *Soc. de Biol. Compt. Rend.* 142: 1540-1542. Dec. 1948. 442.9 P21
- 45711 MAYER, G., and KLEIN, M. Résultats du rapprochement sexuel au cours de l'oestrus expérimental. *Lapines en oestrus. Soc. de Biol. Compt. Rend.* 142: 1548-1549. Dec. 1948. 442.9 P21
- 45712 MONTAGNA, W., and KENYON, P. Growth potentials and mitotic division in the sebaceous glands of the rabbit. *Anat. Rec.* 103: 365-379. Ref. Mar. 1949. 447.8 An1
- 45713 MUYLDER, E. DE, and REUL, R. Clearances du sodium, du potassium et du chlore chez le lapin. *Arch. Internat. de Pharmacodyn. et de Théor.* 78: 301-308. Ref. Feb. 1, 1949. 448.8 Ar226
- 45714 POLIKARPOVA, E. F. Factors which determine the estrus cycles and ovulation in rabbits. (In Russian.) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1948: 575-586. Ref. Sept./Oct. 1948. 511 Sa2B
- 45715 RUNIKHIN, IŮ. Changes in the hemoglobin content of rabbit blood at various stages of growth and feeding systems. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Sborn. Studen. Nauch.-Issled. Rabot* 1948: 49-53. 106 M852Sb
- 45716 SKATKIN, P. N., and RUMIANTSEVA, E. IŮ. Rate of spermatozoa movement in the female sex organs. (In Russian.) *Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(10): 45-51. 1948. 20 Ak1
- Observations on rabbits.

#### Miscellaneous

- 45717 ALESSANDRELLO, S. Let's talk about rabbits. (In Italian.) *Avvenire Agr.* 57: 18-19. Jan. 1949. 16 Av9
- 45718 BRYANT, J. How to make more money with rabbits. *Calif. Rabbits Mag.* 12(9): 11. Apr. 1949. 40.28 Sa5
- 45719 DICKHUT, A. C. Winter housing. *Natl. Rabbit Raiser* 4(7): 21-22. Mar. 1949. 40.28 R11
- 45720 DISHAW, O. W. Rabbits as a 4-H project. *Ariz. Agr. Col. Ext. C.* 137, 19 p. Mar. 1948. 275.29 Ar42
- 45721 GONZÁLEZ ARROYO, S. Daños que ocasiona el conejo de monte. *Agricultura [Madrid]* 18: 10-13. Ref. Jan. 1949. 15 Ag84
- 45722 JESPERSEN, J., and HANSEN, S. H. 4th report of the Rabbit Control Station at Favrholm 1947-48. (In Danish.) *Denmark. Statens Husdyrbrug. Forsøgslab. Beret.* 232, 38 p. 1948. 104 D41
- 45723 POPE, W. A. Shows, exhibitors and officials. *Small Stock Mag.* 33(4): 22-23. Apr. 1949. 48.8 P442
- Rabbits.

#### SHEEP AND GOATS

##### Breeds and Breeding

- 45724 BEKKER, H. T. VAN G. Merino stud book an integral part of improvement; a guide to securing animals of a high standard. *Merino Breeders' J.* 11: 12, 14. Jan. 1949. 45.8 So8
- In English and Afrikaans.
- 45725 BROWN, V. C. New England [i.e. Zealand] Merinos. *Sheep & Goat Raiser* 29(7): 46-48. Apr. 1949. 45.8 Sh3
- 45726 CALVO, C. A. El merino australiano. *Campo y Suelo Argentino* 32(387): 12-14, 21. Jan. 1949. 9 C15
- 45727 DOMMISSE, J. Environment and the maintenance of type and quality; patience and the will to persist in sheep breeding. *Merino Breeders' J.* 11: 17, 30. Jan. 1949. 45.8 So8
- In English and Afrikaans.
- 45728 DUPUY, P. L'amélioration du troupeau ovin beauceron et la production des géniteurs. *J. de la France Agr.* 5: 166-167. Apr. 1/7, 1949. 14 J829
- 45729 FLOYD, T. S. Protamone—a new step in controlled sheep breeding; the importance of the thyroid gland in the productive power of rams. *Merino Breeders' J.* 11: 21-22. Jan. 1949. 45.8 So8
- In English and Afrikaans.
- 45730 FRACANZANI, C. The Padovana sheep. (In Italian.) *Allevatore* 5(6): 6. Feb. 6, 1949. 49 AL55
- 45731 HILLMAN, Blackface sheep in 1948. *Scot. Farmer* 57(2928): 51. Jan. 1, 1949. 10 Sco8
- 45732 MACKIE, W. B. C. Crossbred sheep; population increase in South Australia. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 2: 8-10. Jan. 1949. 281.9 Au73
- 45733 MARSHALL, F. R. The making of the Columbia sheep. *Natl. Wool Grower* 39(4): 9-11, 32-35. Apr. 1949. 45.8 N21N
- 45734 MAULE, J. P. Breeding for milk in a Mediterranean environment. II. Goats. *Empire J. Expt. Agr.* 17: 37-47. Ref. Jan. 1949. 10 Em7
- 45735 NAGORE, D. Precauciones en la instalación de un rebaño Karakul peletero. *Agricultura [Madrid]* 18: 51-54. Feb. 1949. 15 Ag84
- 45736 RAE, A. L. Modern approach to sheep breeding. *Wool* 1: 11-13. Aug. 1948. 45.8 W887
- 45737 SCHMIDT, R. Stand und zukunft der österreichischen ziegenzucht. *Bodenkultur* 2: 64-70. 1948. 19 B635
- 45738 SHARP, A. Blackfaces—a thriving breed. *Farming News and North Brit. Agr.* 101: 123. Jan. 1, 1949. 10 N82
- 45739 STABLES, J. T. Half-bred and Down sheep in 1948. *Scot. Farmer* 57(2928): 54-55. Jan. 1, 1949. 10 Sco8
- 45740 TESTONI, R. The Württemberg sheep and its use in the improvement of the sheep of our Alpine regions. (In Italian.) *Riv. di Zootec.* 22: 15-18. Jan. 1949. 49 R52

##### Feeds and Feeding

- 45741 ARCHIBALD, J. G., and ASDELL, S. A. Minerals for dairy goats. *Better Goatkeeping* 4: 886-891. Mar. 1949. 40.18 B46



- 45742 CHARON, A. J. Le rationnement des chèvres. *Acclimatation* 76: 68. Mar. 19, 1949. 14 Ac2
- 45743 DONALDSON, R. W. Topdressing and seeding forage crops for goats. *Better Goatkeeping* 4: 884-885. Mar. 1949. 40.18 B46
- 45744 GILCH, E. Etwas über kleieverfütterung an ziegen. *Kleintierzucht. Tierbörse* 3(53): 10. Feb. 10, 1949. 49 K672
- 45745 GORB, T. V. Effect of protein concentrates and vitamin A on the growth and health condition of Romanovsk lambs. (In Russian.) *Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(5): 40-46. Ref. 1948. 20 Akl
- 45746 HUNSAKER, R. C. Let us utilize our sugar beet by-products. *U. & I. Cult.* 9: 46. Mar. 1949. 66.8 U12
- Lambs fed with beet waste.
- 45747 JONES, J. H., GRAY, J. A., and BURKHART, H. R. Sorghum gluten meal and feed in rations for fattening lambs. *Tex. Agr. Expt. Sta. Prog. Rpt.* 1153, 3 p. Mar. 11, 1949. 100 T31P
- 45748 MILLER, R. C. Finish early lambs quickly. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 64(3): 18. Mar. 1949. 6 P945K
- 45749 PETERSEN, J. C. Recent developments in lamb feeding. *Sheep & Goat Raiser* 29(7): 20-23. Apr. 1949. 45.8 Sh3

#### Veterinary Medicine

- 45750 BARTELS, and SCHEIBE. Neue präparate zur behandlung der schafraude. *Deut. Tierärztl. Wchnschr.* 55: 122-123. Apr. 15, 1948. 41.8 D482
- 45751 BAUMANN, R. Kropf und myxödem bei neugeborenen ziegen. *Wien. Tierärztl. Monatsschr.* 35: 585-592. Ref. Dec. 1948. 41.8 T345
- 45752 BAXA, V. Eine neue perkutane methode der fruchtzerstückelung bei den kleinen wiederkäuern. *Wien. Tierärztl. Monatsschr.* 35: 450-452. Sept. 1948. 41.8 T345
- In goats.
- 45753 BECHT, VON H. Bingelkrautvergiftung bei drei ziegen. *Deut. Tierärztl. Wchnschr.* 55: 185. June 15, 1948. 41.8 D482
- 45754 BEZNÁK, M. The light absorption of sheep hemoglobin and myoglobin compounds in the Soret region. *Acta Chem. Scand.* 2: 333-342. 1948. 385 Ac82
- Spectrophotometry.
- 45755 CAPURRO, M. El cuidado de las majadas. *Asoc. Rural del Uruguay. Rev.* 76: 13-15. Jan. 1949. 9.9 As5
- 45756 CARLSON, C. E. "Elastration"—new method of docking and castrating lambs. *Colo. Rancher & Farmer* 3(5): 8. Mar. 12, 1949. 6 C714
- 45757 CARPIO, F. Distomatosis hepática (papo de las ovejas). *Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad.* 6(61): 14-15. Oct. 1948. 15 B14
- 45758 COLE, V. G. Latest development in mulesing. *Muster* 3(14): 10. Dec. 15, 1948. 45.8 M97
- 45759 CRONKITE, E. P. The clinical manifestations of acute radiation illness in goats; comments on therapy. *U. S. Bur. Med. and Surg. U. S. Nav. Med. B.* 49: 199-215. Ref. Mar./Apr. 1949. 153.45 Un3
- Animals exposed to Bikini atom bomb tests.
- 45760 DAUBNEY, R. Immunization against rinderpest by means of the goat-adapted virus. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5: 1358-1365. Ref. 1948. 150 In822
- 45761 DESCAZEUX, J., and BRESSOU, C. À propos de la maladie caséuse du mouton. *Acad. Vét. de France. B.* 22: 29-32. Jan. 1949. 41.9 R24
- 45762 DURANT, A. J. Some common parasites of milk goats. *I. Stomach worms. Better Goatkeeping* 4: 906-909. Apr. 1949. 40.18 B46
- 45763 EDWARDSON, J. Ewe and lamb. *Young Farmer* 17: 55-57, 70. Mar./Apr. 1949. 10 Y82
- Third in a series on the birth and rearing of farm animals.
- 45764 ENGARD, P. T. Parasitisms in sheep. *Vet. Med.* 44: 210-214. May 1949. 41.8 M69
- External and internal.
- 45765 EVELETH, D. F., and GOLDSBY, A. I. Accidents in sheep worming. *N. Dak. Agr. Expt. Sta. Bi-mo. B.* 11(3): 104-105. Jan./Feb. 1949. 100 N813B

- 45766 GRAY, M. L., and THORP, F., JR. Listeriosis in Michigan. *M. S. C. Vet.* 9: 49. Winter 1949. 41.8 M582
- In sheep and cattle.
- 45767 GRAYSON, A. R. Toxaemic jaundice of sheep. *Victoria. Dept. Agr. J.* 47: 67-69. Feb. 1949. 23 V66J
- 45768 KAUS, W. Bekämpfung der schafraude. *Kärntner Bauer* 99: 92. Mar. 15, 1949. 19 K14
- 45769 KLINGER, M. Dept. of psychiatry. *Better Goatkeeping* 4: 911. Apr. 1949. 40.18 B46
- 45770 KRENN, E. Fruct. carvi—ein vorzügliches digestivum für die ziege. *Wien. Tierärztl. Monatsschr.* 35: 225. May 1948. 41.8 T345
- Caraway seed.
- 45771 KRENN, E. Jodmangel bei ziegen. *Wien. Tierärztl. Monatsschr.* 35: 494-495. Oct. 1948. 41.8 T345
- Effect on pregnancy and kid.
- 45772 KURZ, G. Beobachtungen bei der kropfenzootie in meinem saanenziegenbestande. *Wien. Tierärztl. Monatsschr.* 36: 16-17. Jan. 1949. 41.8 T345
- 45773 LACEY, J. J. Pre-lambing paralysis causing trouble. *Cent. Co-op. Shipper* 29(4): 6-7. Apr. 1949. 280.38 C78
- 45774 LINDENSTRUTH, R. W., ASHCRAFT, J. B., and WARD, B. Q. Studies on vibronic abortion of sheep. *Amer. Vet. Med. Assoc. J.* 114: 204-205. Apr. 1949. 41.8 Am3
- 45775 MILLER, R. C. Mild winter means sheep parasites this spring. *Prog. Farmer, Miss.-Ark.-La. Ed.* 64(4): 18. Apr. 1949. 6 So81
- Control methods.
- 45776 PAGE, K. W. The anthelmintic effect of phenothiazine administered in small daily doses to lambs bearing heavy infestations of *Haemonchus contortus*. *J. Compar. Path. & Ther.* 59: 70-80. Jan. 1949. 41.8 J82
- 45777 POLLARD, E. P., OWEN, R. W., and EVANS, G. O. Phenothiazine for the control of helminthiasis in lambs: monthly dosing compared with a phenothiazine-salt mixture. *J. Compar. Path. & Ther.* 59: 54-69. Ref. Jan. 1949. 41.8 J82
- 45778 RUDOLF, J. Vergiftung durch chloresaures natrium (NaClO<sub>2</sub>) bei schafen. *Wien. Tierärztl. Monats-schr.* 35: 118-121. Mar. 1948. 41.8 T345
- 45779 SAVI, P. Teniasis of sheep. (In Italian.) *Zooprofilassi* 3: 301-305. Ref. Nov. 1948. 41.8 Z72
- 45780 SCHWARZ, M. Das trockenstellen der ziegen. *Österr. Kleintierzüchter* 1949: 524. Feb. 1949. 49 Os7
- 45781 SWAHN, O., and OBEL, A. L. Waxy muscle-degeneration in lamb and its treatment with artificially manufactured vitamin E preparation. (In Swedish.) *Svenska Fåravelsför. Tidskr.* 29: 36-38. 1949. 45.9 Sv2
- 45782 THRELKELD, W. L. The life history and pathogenicity of *Chabertia ovina*. *Va. Agr. Expt. Sta. Tech. B.* 111, 27 p. Ref. Nov. 1948. 100 V81S
- In sheep.
- 45783 VALDIVIA A., A. El polisulfuro de calcio como antisármico en los ovinos. *Campo [La Paz]* 3(21): 13-16. Jan. 1949. 9.1 C15
- 45784 WOLFANGER, L. Magenwürmer bei ziegen und phenothiazin. *Deut. Tierärztl. Wchnschr.* 55: 169-170. June 1, 1948. 41.8 D482

#### Miscellaneous

- 45785 BLACKMORE, R. C. Early shearing; its effect upon the wool clip. *Merino Breeders' J.* 11: 7-8. Jan. 1949. 45.8 So8
- In English and Afrikaans.
- 45786 BLANK, G. They do a good job—these sheep shearers. *Mich. Farmer* 211: 221, 248. Mar. 19, 1949. 6 M58
- 45787 BLIN, H. Petits éleveurs de moutons formez des troupeaux collectifs. *Rustica* 22: 201. Mar. 6, 1949. 14 R92
- 45788 BRIGGS, H. M. Sheep management for Oklahoma farms. *Okla. Agr. Expt. Sta. C. C-130*, 38 p. Mar. 1949. 100 Ok4
- 45789 FIORITO, A. The sheep of the Alto Adige. (In Italian.) *Allevatore* 5(7): 1. (To be cont.) Feb. 13, 1949. 49 AL55
- 45790 FONDARD, L. L'encouragement à l'élevage ovin. *Réveil Agr.* 58: 70. (Cont.) Mar. 1, 1949. 14 R322
- 45791 GILCH, R. Die behandlung der trächtigen ziegen. *Kleintierzucht. Tierbörse* 3(52): 9-10. Jan. 25, 1949. 49 K672



- 45792 HAZELWOOD, A. J. Will my goat dairy pay a profit? Dairy Goat J. 27(4): 13. Apr. 1949. 40.18 M592
- 45793 HOUT, F. VAN. Considérations pratique sur l'expertise caprine; facteur déterminant de la sélection. Courrier Hort. 10: 673-674; 11: 123-124. Nov. 1948, Feb. 1949. 80 C834
- 45794 HURST, F. Sheep are increasing [in Mississippi]. Prog. Farmer, Miss.-Ark.-La. Ed. 64(3): 16, 125. Mar. 1949. 6 So81
- 45795 LABUSCHAGNE, F. J. Avoid undesirable extremes. (In Afrikaans.) Landbouweekblad 30(1549): 31. Mar. 23, 1949. 24 L232  
Wool production of sheep.
- 45796 MAXWELL, R. A. No big loss from park predators, declares Superintendent Maxwell. Sheep & Goat Raiser 29(7): 36-38. Apr. 1949. 45.8 Sh3
- 45797 MESCHINI, C. International sheep show at Rome. How to exhibit the animals. (In Italian.) Allevatore 4(51): 1. Dec. 19, 1948. 49 AL55
- 45798 MESCHINI, C. The Mediterranean goat. (In Italian.) Allevatore 4(5): 1. Jan. 30, 1949. 49 AL55
- 45799 MILLER, R. C. Interdependence between farm and range sheep production. Natl. Wool Grower 39(4): 13-15. Apr. 1949. 45.8 N21N
- 45800 MOORHOUSE, S. Lakeland [England] sheep and ponies. Nature Lover 6: 56-58. Feb. 1949. 410 N218
- 45801 MORRIS, W. E. 4-H sheep project. Minn. U. Agr. Ext. 4-H B. 11, rev., 8 p. June 1948. 275.29 M662M
- 45802 SCOTT, I. W. Record milch goat yield; first Australian production over 4000 lb. Agr. Gaz. N. S. Wales 60: 27. Jan. 1949. 23 N472
- 45803 SHAMSHURIN, A. A. All-Union Scientific-Research Institute of Karakul Sheep Raising in Samarkand. (In Russian.) Priroda 37(9): 82-85. Sept. 1948. 410 P933
- 45804 SMITH, C. M. Australia builds up its milk goat herds. Calif. Dairyman 29(5): 33. Apr. 9, 1949. 44.8 C12
- 45805 SUTHERLAND, A. Scottish ram sales in 1948. Scot. Farmer 57(2928): 162-166. Jan. 1, 1949. 10 Sco8
- 45806 SVENSKA FÅRAVELSFÖRENINGEN. Annual report of the Swedish Sheep Breeder's Association. (In Swedish.) Svenska Fåravelsförs. Tidskr. 29: 11-27. 1949. 45.9 Sv2
- 45807 VOLPINI, A. One shepherd, one sheep-fold. (In Italian.) Allevatore 4(5): 5. Jan. 30, 1949. 49 AL55
- 45808 WEBER, R. A. Sheep classing; hogget culling improves wool production. Wool 1: 41-43. Aug. 1948. 45.8 W887
- SWINE
- Breeds and Breeding
- 45809 ADAIR, W. U. S. A.'s tailor-made pigs; how two new breeds were evolved. Farming News & North Brit. Agr. 101(10): 4. Mar. 4, 1949. 10 N82  
Minnesota No. 1 and No. 2.
- 45810 BLOUNT, W. P. Minnesota No. 1: this is a lean meat pig. Poultry Farmer [London] 120(3118): 15. Apr. 8, 1949. 47.8 F312
- 45811 BRANIGAN, V. Bright future for Berkshires. Berkshire News 14(6): 22-25. Apr. 1949. 46.8 B454
- 45812 DOMINGUES, O. Swine should be prolific. (In Portuguese.) Campo [Rio de Janeiro] 20: 21. Jan./Feb. 1949. 9.2 C15
- 45813 GRAY, R. C. Pig breeding in Scotland. Scot. Farmer 57(2928): 157-159. Jan. 1, 1949. 10 Sco8
- 45814 HUGENECK, H. Beitrag zur behandlung nicht rauschender weiblicher schweine mit "Sexocretin Merck". Wien. Tierärztl. Monatsschr. 35: 71-72. Feb. 1948. 41.8 T345
- 45815 MENDEL, T. Hamprace breed. West. Livestock Rptr. 33: 6-7, 29. Apr. 6, 1949. 286.85 W523  
Swine.
- 45816 PARISI, O. Swine of the Romagnola breed. (In Italian.) Riv. di Zootec. 22: 12-14. Jan. 1949. 49 R52
- 45817 PESCE, P. A. Notions on swine culture; the boar. (In Italian.) Allevatore 5(4): 5. Jan. 23, 1949. 49 AL55
- 45818 ROYAL DUBLIN SOCIETY. Herd book of Irish Large White pigs. Dublin, 1949. v. 45, 187 p. 46.9 R81
- 45819 SIRRI, A. The polemic on the institute for swine culture. (In Italian.) Allevatore 4(5): 3. Jan. 30, 1949. 49 AL55  
Reply to A. Volpini.
- 45820 SÜDENBACH, F. Wert und wirtschaftlichkeit des Berkshire-schweines. Deut. Viehhandel 4(1): 4-5. Jan. 15, 1949. 49 D482
- 45821 SWEDEN. LANTBRUKSHÖGSKOLAN. HUSDJURFÖRSÖKSANSTALTEN. The Swine Breed Inspection, 25, 1947. (In Swedish.) Sweden. Lantbrukshögsk. HUSDJURFÖRSÖKSANST. Meddel. 35, 57 p. 1948. 104 Up62  
Pig testing.
- 45822 ZELLER, J. H. Breeds of swine. Farmer & Dairyman 41: 37. (Cont.) Jan. 1949. 23 F225
- Feeds and Feeding
- 45823 BOHSTEDT, G. Can salt poison pigs? West. Livestock Rptr. 33: 25. Apr. 6, 1949. 286.85 W523
- 45824 CATRON, D. Recent development in swine nutrition. Vet. Med. 44: 215-220. May 1949. 41.8 M69
- 45825 CATRON, D. Swine nutrition developments. Westernnews 10(7): 4-5. Mar. 1949. 389.78 W522
- 45826 HÜBNER, K. Schweinemast statt 5 nur 2 monate. Salzburger Bauer 4(7): 3-4. Feb. 17, 1949. 19 Sa3
- 45827 KLOSTERMAN, E. W. Self-feeding brood sows. Dak. Farmer 69(6): 22. Mar. 19, 1949. 6 D14
- 45828 KRIDER, J. L., and TERRILL, S. W. Distillers grain solubles in swine rations. Flour & Feed 49(11): 16, 38. Apr. 1949. 298.8 F66
- 45829 KRIDER, J. L., and TERRILL, S. W. Recent work at the Illinois Station on distillers grain solubles in swine rations. Conf. Feeds Grain Distill. Proc. 4: 21-33. 1949. 389.79 C765
- 45830 LOCKHART, J. Producing profitable pork. Ala. Farmer 27(7): 11. Apr. 1949. 276.8 AL1  
Feeding and breeding.
- 45831 MORRISON, F. B. El valor nutritivo en la alimentación de los cerdos. Asoc. Argentina Criadores de Cerdos Rev. 28(318): 15-17. Feb. 1949. 46.9 As5
- 45832 NEHRING, K., and SCHRAMM, W. Über die verwertung des grünfutters, besonders der luzerne, durch die schweine. Tierzucht 2: 166-171. Nov./Dec. 1948. 49 T443
- 45833 NORDFELDT, S. Potatoes as feed for fattening swine. (In Swedish.) Ladugården 1949: 21-22. Jan. 1949. 44.8 L12
- 45834 NORDFELDT, S., and others. Production of high quality pork and bacon. (In Swedish.) Sweden. Lantbrukshögsk. HUSDJURFÖRSÖKSANST. Meddel. 33, 52 p. Ref. 1948. 104 Up62  
E. Toiger, B. Carli, and E. Priks, joint authors.
- 45835 NORTH, A. D. Producing quality bacon pigs. Victoria. Dept. Agr. J. 47: 21. Jan. 1949. 23 V66J  
Chiefly feeding.
- 45836 PEIRSON, H. M. Whey must be fully utilised as a pig food. New Zeal. J. Agr. 78: 25, 27-28. Jan. 15, 1949. 23 N48J
- 45837 PINKERTON, H. E. La nutrición y las enfermedades de los cerdos. Asoc. Argentina Criadores de Cerdos Rev. 28(318): 19, 23-24. Feb. 1949. 46.9 As5
- 45838 ROBISON, W. L. Dried distillers grain solubles with plant protein concentrates for pigs in dry lot. Conf. Feeds Grain Distill. Proc. 4: 119-126. 1949. 389.79 C765
- 45839 ROBISON, W. L. Feed tests for pigs. Flour & Feed 49(11): 14-15. Apr. 1949. 298.8 F66
- 45840 SELLARDS, G. A hog is what he eats. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 64(4): 24. Apr. 1949. 6 P945K
- 45841 STEWART, H. A. Distillers grain solubles in diets for young pigs. Conf. Feeds Grain Distill. Proc. 4: 131-133. 1949. 389.79 C765
- 45842 VESTAL, C. M. What supplements for swine? Soybean Digest 9(4): 18-19, 42. Feb. 1949. 60.38 So9
- 45843 VIANNA, A. T. Supplements in swine nutrition. (In Portuguese.) Chacaras e Quintais 79: 337-339. Mar. 15, 1949. 9.2 C34
- 45844 ZELLER, J. H. How to feed hogs. Farm Q. 4: 72-75, 88-90, 92. Spring 1949. 6 F22995



## Veterinary Medicine

- 45845 BARBONI, E. The pathological anatomy of the principal infectious diseases of swine. (In Italian.) *Prog. Vet.* 3: 397-408. Nov. 1/15, 1948. 41.8 P942
- 45846 BAUMANN, R. Vom kongenitalen myxödem zum kretinistischen zwergwuchs der ferkel (dickhals). *Wien. Tierärztl. Monatsschr.* 35: 316-324. Ref. July 1948. 41.8 T345
- 45847 BEAMER, P. D., and others. Sludged blood in three young pigs experimentally infected with hog cholera. *Amer. J. Vet. Res.* 10: 111-114. Apr. 1949. 41.8 Am3A
- E. H. Bloch, L. Warner, F. Brooks, J. A. Anliker, and M. H. Knisely, joint authors.
- 45848 BECKMAN, H. J. New born pigs—successful swinemen consider farrowing time as harvest time. *West. Livestock J.* 27(22): 158-159. Mar. 15, 1949. 6 F2278
- 45849 BODINGBAUER, J. Über die existenz eines Trigonum retromolare beim wild- und hausschwein. *Wien. Tierärztl. Monatsschr.* 35: 598-601. Dec. 1948. 41.8 T345
- 45850 BRESSOU, G., and VLADUTIU, O. Nouvelle contribution à l'étude des vésicules séminales du porc. *Rec. de Méd. Vét.* 124: 529-540. Dec. 1948. 41.8 R24
- 45851 BUENO, P. Diarrhea of sucking pigs. (In Portuguese.) *Soc. Rural Bras. Rev.* 28: 30-31. Jan. 1948. 9.2 B733
- 45852 CAMPOS ONETTI, R. Lucha contra la peste porcina. Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad. 6(62): 22-23. (Cont.) Nov. 1948. 15 B14
- 45853 DÍAZ, F. A. Vacunación de los lechones contra el hog-cólera. *Agr. y Ganad.* 23(5, i. e. 2): 3-6. Feb. 28, 1949. 8 Ag834
- 45854 FERRIN, E. F., and others. Treated seed grains found fatal to hogs. *Minn. Farm and Home Sci. [Minn. Sta.]* 6(2): 7. Feb. 1949. 100 M668
- H. C. H. Kernkamp, M. H. Roepke, and M. B. Moore, joint authors.
- 45855 GLÄSSER. Die 3 wichtigsten ferkelkrankheiten und ihre bekämpfung. *Deut. Tierärztl. Wchnschr.* 55: 152-154. May 15, 1948. 41.8 D482
- 45856 GRABHERR, A. Ein fall von superfoetatio beim schwein. *Wien. Tierärztl. Monatsschr.* 35: 285-286. June 1948. 41.8 T345
- 45857 GRAY, M. L., and others. Swine erysipelas in Michigan: case reports. *M. S. C. Vet.* 9: 46-48. Winter 1949. 41.8 M582
- H. W. Dunne, F. Thorp, Jr., and L. B. Sholl, joint authors.
- 45858 GWATKIN, R., and PLUMMER, P. J. G. Rhinitis of swine. IV. Experiments on laboratory animals. *Canad. J. Compar. Med.* 13: 70-75. Mar. 1949. 41.8 C162
- 45859 JEAN-BLAIN, M. Intoxications de porcs par de la farine d'ers erviller (Ervum ervilla L.). *Rev. de Méd. Vét. [Toulouse]* 100: 86-89. Feb. 1949. 41.8 R32
- 45860 LAIZET, G. Vaccination contre la peste du porc avec le vaccin au cristal violet. *Rec. de Méd. Vét.* 125: 28-35. Jan. 1949. 41.8 R24
- 45861 LEMISHKO, P. M. On determining the development stages of non-incapsulated larvae of *Trichinella*. (In Russian.) *Veterinariia* 25(11): 36-37. Nov. 1948. 41.8 V6426
- In swine meat inspection.
- 45862 LIEBISCH, H. Ätiologische und histologische untersuchungen über das enzootische myxödem der neugeborenen ferkel. *Wien. Tierärztl. Monatsschr.* 35: 193-198, 249-263. Ref. May-June 1948. 41.8 T345
- 45863 LYNCH, W. M. Some lung conditions in swine. *Allied Vet.* 20(2): 5-7. Mar./Apr. 1949. 41.8 AL5
- 45864 MUSSILL, J. Zum ferkelsterben und dickhals. *Wien. Tierärztl. Monatsschr.* 35: 335-336. July 1948. 41.8 T345
- 45865 PEZZOLA, V. Penicillin in the treatment of swine erysipelas. (In Italian.) *Zooprofilassi* 3: 315-316. Nov. 1948. 41.8 Z72
- 45866 RIVAS ROS, J. La peste porcina. *Campo [Sevilla]* 8(83): 25-26. Feb. 1949. 15 C15
- 45867 SCHEIB, H. Beitrag zum "ferkelsterben." *Wien. Tierärztl. Monatsschr.* 35: 125-126. Mar. 1948. 41.8 T345
- 45868 SCHEUHAMMER, F. Die stimmprobe als prognostisches hilfsmittel bei akutem septikämischem schweinerotlauf. *Wien. Tierärztl. Monatsschr.* 35: 172. Apr. 1948. 41.8 T345

- 45869 SCHOENING, H. W., and others. Pathogenicity of *Salmonella choleraesuis*: maintaining virulence by lyophilization. *Amer. J. Vet. Res.* 10: 101-110. Ref. Apr. 1949. 41.8 Am3A
- C. N. Dale, L. O. Mott, and R. T. Habermann, joint authors.
- 45870 SIPPEL, W. L. Hog enemy number one. *Prog. Farmer, Miss.-Ark.-La. Ed.* 64(4): 25, 125. Apr. 1949. 6 So81
- Immunizing hogs against cholera.
- 45871 SLAWKOFF, I. D. Ein fall von *Salmonella rostock* beim schwein. *Wien. Tierärztl. Monatsschr.* 35: 435-437. Sept. 1948. 41.8 T345
- 45872 SWAHN, O. Health control of herds producing young pigs. (In Swedish.) *Ladugården* 1949: 9-10. Jan. 1949. 44.8 L12
- 45873 WEISS, K. Durch jodmangel bedingte erkrankungen bei ferkeln. *Wien. Tierärztl. Monatsschr.* 35: 25-33. Ref. Jan. 1948. 41.8 T345

## Miscellaneous

- 45874 BACCARANI, G. Notes on swine raising. (In Italian.) *Campagnolo* 1949: 3-4. Jan. 1949. 16 C15
- 45875 BELTRÁN, J. M. Los porcinos españoles de raza ibérica. *Nuestros Amigos* 6(56): 18-19. Jan. 1949. 48.8 N88
- 45876 CENTRE D'ÉTUDES AGRICOLES PAR CORRESPONDANCE DU PLATEAU CENTRAL. Le porc et la production de la viande. Rodez, 1948. 44 p. 46 C33
- 45877 HOLLAND, P. J. Pig profit program; castrate (3 wks.); vaccinate (6 wks.); wean (8 wks.). *Breeder's Gaz.* 114(5): 8-9. May 1949. 49 B74
- 45878 ISTITUTO ZOOTECHNICO E CASEARIO PER IL PIEMONTE, TURIN. L'allevamento del suini all'aperto [Raising swine in the open], by V. Vezzani. Chieri, Astesano, 1948. 18 p. 46 Is7
- 45879 MCMILLEN, W. N. Raising profitable litters. *OIC News* 15 i.e. 5(3): 14, 16. Mar. 1949. 46.8 O11
- 45880 MALLO, M. D. Depreciación de productos porcinos por alteraciones del cuero. *Campo y Suelo Argentino* 32(387): 59. Jan. 1949. 9 C15
- 45881 MEAL, C. Shaping up young show herd. *Poland China World* 36(3 i.e. 4): 9-10. Apr. 1949. 46.8 Sw62
- 45882 MEXICO. DIRECCION GENERAL DE ENSEÑANZA AGRÍCOLA. Industrias agropecuarias, ganado porcino y ganado ovino. México, 1948. 55 p. (Mexico. Secretaría de Educación Pública. Biblioteca Enciclopédica Popular, 194) 40 M572
- 45883 ORALES, P. T. Cría de cerdos. *Campo [Guadalajara]* 17(2): 3, 5. Feb. 1949. 8 G76
- 45884 RAIMONDI, R. Il Centro suino sperimentale dell'Istituto Zootecnico e Caseario per il Piemonte; organizzazione, attività, risultati [The swine experimental center of the Livestock and Cheese Institute for Piedmont; organization, activity, results]. Chieri, Astesano, 1948. 35 p. 46.9 Is7
- 45885 RUSSELL, H. Swine sanitation pays. *Duroc News* 23(4): 22, 24. Apr. 1949. 46.8 N212
- 45886 SACCO, P. Will Italian swine industry be able to have its own station? (In Italian.) *Allevatore* 5(2): 1-2. Jan. 9, 1949. 49 AL55
- 45887 SCHWAB, J. W. Tenth anniversary of the Ton Litter Hog Shows, Indianapolis stockyards. *Purdue U. Agr. Ext. B.* 342, 12 p. 1948. 275.29 In2E
- 45888 SEVERSON, H. Swine-conscious FFA chapter. *Country Gent.* 119(4): 114-115. Apr. 1949. 6 C833
- 45889 SKELTON, L. C. Hints on picking names. *Poland China World* 36(3 i.e. 4): 8. Apr. 1949. 46.8 Sw62
- 45890 SMITH, W. W. A good start is of vital importance; profitable production in the hog herd requires early attention. *Amer. Hampshire Herdsman* 24(2): 34, 36. Jan. 1949. 46.8 Am33
- 45891 TRAVERSO, D. Raise swine: do it now! (In Italian.) *Allevatore* 4(49): 1. Dec. 5, 1948. 49 AL55
- Italy.
- 45892 VILLENEUVE, P. Comment sauver les porcelets. *B. des Agr.* 45(3): 93. Mar. 1949. 7 B872
- 45893 ZAVORAL, H. G. Save the pigs! *Cent. Co-op. Shipper* 29(4): 4-5. Apr. 1949. 280.38 C78
- Care.



## GENERAL

- 45894 AHRENS, C. Bugging in Alaska. *Turtlox News* 27: 64-67. Feb. 1949. 442.8 T86
- 45895 BENLLOCH MARTÍNEZ, M. El invierno y las plagas. Murcia, Spain. *Cám. Ofic. Agr. B.* 76: 4-5. Feb. 1949. 15 M93  
Insects.
- 45896 CREIGHTON, J. T. Investigación entomológica en Centro América. *Hacienda* 44(4): 50, 52. Apr. 1949. 6 H11
- 45897 DYMOND, J. R. Important advances in zoological nomenclature achieved at the Thirteenth International Congress of Zoology, Paris, July, 1948. *Canad. Ent.* 81: 51. Feb. 1949. 421 C16
- 45898 FISHER, G. D. The charm of insects. *Scot. Zoo & Wild Life* 1: 65-69. July 1948. 410 Sco8
- 45899 FRANKENBERG, G. VON. Sechsbeynige winterschläfer in der wohnung. *Orion* 4: 67-68. Jan. 15, 1949. 474 Or4
- 45900 GREER, T. Entomological notes from east Tyrone, 1948. *Ent. Rec. & J. Variation* 61: 27-28. (To be cont.) Mar. 1949. 421 En89
- 45901 HACKMAN, R. H., PRYOR, M. G. M., and TODD, A. R. The occurrence of phenolic substances in arthropods. *Biochem. J.* 43: 474-477. Ref. 1948. 382 B52  
Methylated phenolic acids isolated from six species of insects.
- 45902 KARPIŃSKI, J. J. Nouvelles espèces d'insectes citées pour la faune de Pologne et nouvelles localités des espèces rares trouvées dans le Parc National de Białowieża et dans la Forêt de Białowieża. (In Polish.) *Fragmenta Faunistica* 5: 309-315. Sept. 15, 1948. 410.9 W26F  
French summary.  
Coleoptera; Lepidoptera; Hymenoptera.
- 45903 KOSMACHEVSKII, A. S. Effect of twilight on the behavior of some animals. (In Russian.) *Zool. Zhur.* 27: 435-440. Ref. Sept./Oct. 1948. 410 R92  
Includes observations on insects.
- 45904 MERTENS, R. Die tierwelt des tropischen regenwaldes. Frankfurt am Main, Kramer, 1948. 144 p. (Senckenbergische Naturforschende Gesellschaft, Frankfurt am Main. *Senckenbergbuch.* 18) 411.2 M55  
Includes insects.
- 45905 PEKLO, J. Symbiosis of *Azotobacter* with insects. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 478-479. 1949. 442.9 In83
- 45906 PUTMAN, W. L. A method of keeping paradi-chlorobenzene in insect boxes. *Canad. Ent.* 81: 52. Feb. 1949. 421 C16
- 45907 ROONWAL, M. L. Zoology and entomology; modern trends in systematics. *Sci. & Cult.* 14(8, sup.) 4. Feb. 1949. 475 Sci24
- 45908 SIEGLER, E. H. A century of progress in economic entomology in the United States. (Abs.) *Ent. Soc. Wash. Proc.* 51: 91-92. Apr. 1949. 420 W27
- 45909 ANDRADE, A. C. DE. How to spray plants successfully. (In Portuguese.) *Soc. Rural Bras. Rev.* 29: 30-32. Jan. 1949. 9.2 B733  
Insecticides.
- 45910 ANNAND, P. N. Insect control is vital to efficient cotton production. *Cotton Gin & Oil Mill Press* 50(7): 11-12, 18. Apr. 2, 1949. 304.8 C822
- 45911 BABERS, F. H. The development of resistance of insects to insecticides. (Abs.) *Ent. Soc. Wash. Proc.* 51: 90. Apr. 1949. 420 W27
- 45912 BENNETT, S. H. Preliminary experiments with systemic insecticides. *Ann. Appl. Biol.* 36: 160-163. Mar. 1949. 442.8 An72  
Insecticides absorbed by plant, rendering it insecticidal.
- 45913 BERLIN. BIOLOGISCHE ZENTRALANSTALT FÜR LAND- UND FORSTWIRTSCHAFT. Anleitung zur bestimmung und bekämpfung der wichtigsten schädigungen der kulturpflanzen. Ed. 6. Berlin, Deutscher Zentralverlag, 1948. v. 2, 72 p. 464 B453  
Fruit and vegetable pests.
- 45914 BETTINI, S. New insecticides. (In Italian.) *Riv. di Parassitol.* 9: 39-55. Ref. Mar. 1948. 436.8 R52  
French and English summaries.  
DDT analogs, benzene hexachloride, chlordane, pyrethrum synergists, toxaphene.
- 45915 BISHOPP, F. C. Possible food contamination from insecticides? *Agr. Chem.* 4(3): 36-38, 83, 85-87. Mar. 1949. 381 Ag8
- 45916 BLANES, F. Algunas consideraciones sobre el empleo del D.D.T. Balearic Isl. *Diputación Prov. B. de Agr.* 53: 5. (To be cont.) Feb. 1949. 15 B19
- 45917 BÖHM, W. Vogelschutz und weidewirtschaft. *Allgäuer Bauernbl.* 17: 49-50. Jan. 28, 1949. 18 AL53
- 45918 BORDEN, A. D. Know your sprays. *Calif. Fruit & Grape Grower* 3(2): 17-18. Feb. 1949. 95.8 G762  
Insecticides.
- 45919 BOTTGER, G. T., YERINGTON, A. P., and GERTLER, S. I. Preliminary tests of certain phenylhydrazides as insecticides. *U. S. Bur. Ent. and Plant Quar.* E-769, 10 p. Mar. 1949. 1.9 En83
- 45920 BOTTGER, G. T., and GERTLER, S. I. Preliminary tests on N-substituted m-nitrobenzamides as insecticides. *U. S. Bur. Ent. and Plant Quar.* E-773, 9 p. Mar. 1949. 1.9 En83
- 45921 BRANNON, D. H. Solid comfort for your livestock; more profits come when insects go. *Wash. State Col. Ext. B.* 384, 8 p. Feb. 1949. 275.29 W27P  
Program for the control of livestock insects.
- 45922 BROWN, W. B., and HESELTINE, H. K. Fumigation of grain in silo bins. *Milling* 112: 229-230, 233. Mar. 5, 1949. 298.8 M622
- 45923 CANADA. DEPT. OF AGRICULTURE. DIV. OF ENTOMOLOGY. BIOLOGICAL CONTROL INVESTIGATIONS UNIT. Summary of parasite and predator liberations in Canada in 1948. *Canad. Insect Pest Rev.* 26: 281-297. 1948. 423.92 C16C
- 45924 CHATTERJEE, R. Insecticides. *Sci. and Cult.* 14: 313-314. Feb. 1949. 475 Sci24
- 45925 CHEN, H. S., and YUAN, H. M. A qualitative test for pyrethrins. (In Chinese.) *Ent. News [Nanking]* 2: 44. Oct. 1948. 421 En816  
English summary.
- 45926 CHRIST, E. G., and GILBERT, F. A. Control of insects and diseases on small fruits. *N. J. Agr. Col. Ext. Spray Calendar* 31, 12 p. Mar. 1948. 275.29 N46Sp
- 45927 CRYSTAL, R. N. Insect pests in trees. 1-2. *Timber News* 57: 108-109, 146-147. Mar.-Apr. 1949. 99.81 T482
- 45928 CLEMENTS, F. P. PCOs, let's branch out. *Pests* 17(4): 7. Apr. 1949. 449.8 Ex8
- 45929 COATES, H. The chemistry of phosphorus insecticides. *Ann. Appl. Biol.* 36: 156-159. Mar. 1949. 442.8 An72  
Hexaethyl tetraphosphate and tetraethyl pyrophosphate.
- 45930 CONLEY, B. E. Why the American Medical Association is interested in the pesticide problem. *Pests* 17(4): 18-20, 22. Ref. Apr. 1949. 449.8 Ex8  
Insecticides, herbicides, etc.
- 45931 CONNER, J. T. How to kill tobacco plantbed insects. *Prog. Farmer, Car.-Va. Ed.* 64(4): 18. Apr. 1949. 6 P945
- 45932 COTTON GIN AND OIL MILL PRESS. Know your enemies! *Cotton Gin & Oil Mill Press* 50(7): 31-38. Apr. 2, 1949. 304.8 C822  
Color reproductions of the major cotton insects.
- 45933 CROWLEY, D. J., and others. Cranberry insect, fungi, and weed control program. *Wash. State Col. Ext. C.* 73, rev., 4 p. Mar. 1949. 275.29 W27C  
N. Servoss, R. L. Webster, M. R. Harris, D. H. Brannon, and H. S. Telford, joint authors.
- 45934 DAVIDSON, M. Help! bugs. *Ladies' Home J.* 66(4): 258-259, 261-262. Apr. 1949. 321.8 L12  
Household insects.
- 45935 DAVIES, W. H., and SEXTON, W. A. Chemical constitution and insecticidal action. 1. Organic sulphur compounds. *Biochem. J.* 43: 461-467. Ref. 1948. 382 B52
- 45936 DENNIS, J. V. An appreciation of insects. *Gard. Gossip* 24(4): 9, 18. Apr. 1949. 80 G1625

## GENERAL - ECONOMIC



- 45937 DEVAUX, L. Un nouvel insecticide. Agr. Charentais 3(8): 2. Sept. 1948. 14 Ag825 Parathion.
- 45938 EARLEY, D. To arms! Cotton enemies are coming. Tex. Farming & Citric. 25(10): 14. Apr. 1949. 80 T31
- 45939 EWING, K. P., and PARENCIA, C. R., JR. Experiments in early-season application of insecticides for cotton-insect control in Wharton County, Tex., during 1948. U. S. Bur. Ent. and Plant Quar. E-772, 6 p. Mar. 1949. 1.9 En83
- 45940 EWING, K. P., and PARENCIA, C. R., JR. In Wharton County, Texas, early season control worked. Cotton Gin & Oil Mill Press 50(7): 17-18. Apr. 2, 1949. 304.8 C822 Cotton pests.
- 45941 FAHEY, J. E., and RUSK, H. W. A leaf punch for sampling insecticide residues on foliage. U. S. Bur. Ent. and Plant Quar. ET-264, 2 p. Mar. 1949. 1.9 En83Et
- 45942 FANTINI, P. Winter antiparasitic treatment. (In Italian.) Agr. Bresciana 2(10): 1. Mar. 7, 1949. 16 Ag89 Fruit spraying.
- 45943 FINKENBRINK, W. Schädlingsbekämpfung mit chemie. Ernährungsdienst 4(22): 4. Mar. 17, 1949. 289.8 Er63
- 45944 FJELDDALEN, J. DNC—winter spraying preparation. (In Norwegian.) Norsk Hagetidend 65: 57-58. Mar. 1/15, 1949. 80 N81
- 45945 FLECK, E. E. The action of ultraviolet light on DDT. Amer. Chem. Soc. J. 71: 1034-1036. Mar. 1949. 381 Am33J
- 45946 FLORIDA. STATE CHEMIST. Annual report, year ending March 31, 1948. III. Insecticide section. Talahassee, 1948. 39 p. 381 F66
- 45947 FRANKLIN, H. J. Cranberry insects in Massachusetts. Mass. Agr. Expt. Sta. B. 445, 64 p. Jan. 1948. 100 M38H
- 45948 FREAR, D. E. H., HILBORN, M. T., and PRINCE, A. E. Pest control materials, 1949; fungicides, herbicides, insecticides, and rodenticides: trade names, companies, uses, and active ingredients. Maine. Agr. Expt. Sta. Misc. P. 613, 110 p. Jan. 1949. 100 M28S
- 45949 FRYDLENDER, J. H. Réalisations nouvelles dans le domaine des parasitocides. Rev. des Prod. Chim. 52: 17-21, 23, 25. Ref. Feb. 15/28, 1949. 387 R327 DDT analogs, chlordane, hexaethyl tetraphosphate, tetraethyl pyrophosphate, parathion, anticyde, sabadilla.
- 45950 FU, S. F. The recent situation of cotton insect control. (In Chinese.) Ent. News [Nanking] 2: 45. Oct. 1948. 421 En816 English summary.
- 45951 GALLWITZ, K. Geräte zur schädlingsbekämpfung für schlepperzug. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 3: 81-86. 1948. 18 K96
- 45952 GAR, K. A. Study of the relation between solubility and toxicity of thermic calcium arsenate. (In Russian.) Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(10): 28-34. 1948. 20 Ak1 Experiments on insects.
- 45953 GIER, H. T., WILBUR, D. A., and MILLER, G. D. A differential stain for identifying insect fragments in flour. Northwest. Miller (Milling Prod. Sect.) 238(2): 4a-21a. Apr. 12, 1949. 298.8 N81
- 45954 GOFFER, A. International collaboration in biological war against plant parasites. (In Russian.) Interagra 2: 381-383. 1948. 28 In825 English summary. Insects and weeds.
- 45955 GOLDBERG, M. Possible label changes; new recommendations may affect future pesticide sales. Agr. Chem. 4(3): 51, 89. Mar. 1949. 381 Ag8
- 45956 GRIFFITHS, J. T., JR., and THOMPSON, W. L. Citrus insect control problems for the spring of 1949. Citrus Indus. 30(4): 9, 17. Apr. 1949. 80 C49
- 45957 HAGEMAN, R. H. Rapid method for extracting constituents of derris roots. Analyt. Chem. 21: 530. Apr. 1949. 381 J825A
- 45958 HALLER, H. L. Chemistry and formulations of some insecticides useful in medical and veterinary entomology. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1721-1728. 1948. 150 In822
- 45959 HAMADA, M., SASAKAWA, T., and OHNO, M. Studies on the correlation between the chemical constitution and the insecticidal activity of halogenated aromatic compounds. I-III. (In Japanese.) Botyu-Kagaku 1948(10): 9-30. Ref. Sept. 1948. 421 B65 I. DDT and its related compounds, p. 9-16. II. Gammex-ane and its related compounds, p. 17-24. III. Diphenyl-methane series, p. 25-30. English summaries.
- 45960 HANDS, D. Insects. Co-op. News 4061: 8-9. Apr. 2, 1949. 280.28 C7897 Damage.
- 45961 HARGREAVES, H. List of recorded cotton insects of the world. London, Commonwealth Inst. of Ent., 1948. 49 p. 423 H223
- 45962 HAURY, H. Gibt es ungiftige schädlingsbekämpfungsmittel? Anz. f. Schädlingsk. 21: 125-126. Nov. 1948. 421 An9
- 45963 HEATH, G. D. An improved method for the generation of insecticidal smokes. Soc. Chem. Indus. J. 68: 41-44. Feb. 1949. 382 M31
- 45964 HEIKINHEIMO, O. Are the DNOC preparations sufficiently effective spring winter spraying preparations. (In Swedish.) Prakt. Försöksverks. 5: 37-38. May/June 1948. 20 P88
- 45965 HERBERT, P. New horizons for PCOs. Pests 17(4): 16, 26. Apr. 1949. 449.8 Ex8
- 45966 HOEKZEMA, J. P. Precautions must be taken when using any new insecticides. Ind. Farmers Guide 105(5): 25. Mar. 15, 1949. 6 In2
- 45967 HOFFMANN, A. Répertoire analytique des insectes nuisibles aux cultures en France ayant présenté d'intéressantes particularités en 1945, 1946 ou 1947. Rev. Tech. de la Protect. des Vég. 1: 273-297. 1948. 464.9 F84R With an introduction by B. Trouvelot.
- 45968 HOLMES, E. L. Insect and rodent control in the bakery. Bakers' Helper 91(1139): 73-74. Mar. 19, 1949. 389.8 B17 Similar title in Cracker Baker 38(3): 27-30, 52. Mar. 1949. 389.8 C84
- 45969 HORBER, E. Schädlings und fruchtfolge. Grüne 77: 236-242. Mar. 4, 1949. 17 Sch9 Insect pests.
- 45970 HOVEY, C. L. DDT is the potato grower's best weapon. East. States Coop. 25(3): 10. Mar. 1949. 280.28 Ea7
- 45971 HOWSE, A. C. External parasites of poultry. New Zeal. J. Agr. 78: 47, 49. Jan. 15, 1949. 23 N48J
- 45972 HUANG, C. The recent situation of rice insects in China. (In Chinese.) Ent. News [Nanking] 2: 51-52. Oct. 1948. 421 En816 English summary.
- 45973 ISELY, D. Control de los insectos del algodonero en el Perú. Vida Agr. [Lima] 26: 117-119, 121-122. Feb. 1949. 9.8 V66
- 45974 JENNY, J. Etat actuel et perspectives de la technique de la lutte antiparasitaire en agriculture. Agriculture [Paris] 13: 75, 77-80. Mar. 1949. 14 Ag823 Spraying and dusting technique.
- 45975 JOHNSON, C. C. "Sanitate" with supervision. Amer. Miller & Processor 77(4): 48. Apr. 1949. 298.8 Am32 Insect control.
- 45976 JONES, M. A., and others. A further toxicological comparison of Derris and Lonchocarpus. J. Agr. Res. 78: 191-196. Apr. 1, 1949. 1 Ag84J C. Pagán, E. R. McGovran, W. A. Gersdorff, and P. G. Piquett, joint authors.
- 45977 KANSAS. ENTOMOLOGICAL COMMISSION. Biennial report, 1947/1948, 21st, including list of certified nurseries. Topeka, 1948. 46 p. 423 K133
- 45978 KASIKHIN, A. N. 17th Plenum of the Section of Plant Protection of the V. I. Lenin All Union Academy of Agricultural Sciences. (In Russian.) Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(7): 45-47. 1948. 20 Ak1 Addresses on the application of DDT and benzene hexachloride in pest control.
- 45979 KING, G. H. These tested methods provide practical control for insects in tobacco fields. Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(3): 138. Mar. 1949. 6 P945G



- 45980 KNIPLING, E. F. New insecticides, acaricides, and repellents for the control of arthropods attacking man. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1702-1712. Ref. 1948. 150 In822  
Benzene hexachloride; chlordane; toxaphene; DDT analogs; pyrethrum synergists; parathion; repellents; protective treatments for clothing; scabicides.
- 45981 KOENIG, H. T. Fly control time nears as spring draws closer. Livestock Weekly 3(15): 1, 8. Feb. 17, 1949. 49 L753  
DDT for building sanitation.
- 45982 KROLL, R. Ersatz des raupenleims durch DDT. Forstw., Holzw. 2: 355-358. Dec. 1, 1948. 99.8 F7793
- 45983 KUHN, L. Ist schädlingbekämpfung rentabel? Ceres [Hamburg] 1948(11): 11-12. Nov. 1948. 80 C332
- 45984 LEHKER, G. E., SHARVELLE, E. G., and BURKHOLDER, C. L. Spray and dust schedules for commercial fruit planting. Purdue U. Agr. Ext. B. 310, 35 p. 1949. 275.29 In2E
- 45985 LEHMAN, A. J. The toxicology of the new insecticides. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1713-1720. Ref. 1948. 150 In822
- 45986 MANCHESTER, H. The farmer planned his luck; bugs and weeds have new enemies down on the farm. Nation's Business 37(4): 34-36, 84-85. Apr. 1949. 286.8 N212
- 45987 MARTIN, H. The insecticidal properties of certain organo-phosphorus compounds. Ann. Appl. Biol. 36: 153-155. Ref. Mar. 1949. 442.8 An72  
Hexaethyl tetraphosphate and tetraethyl pyrophosphate.
- 45988 MAYER, E. L., and others. Nicotine insecticides. V. Search for synergists. U. S. Bur. Ent. and Plant Quar. E-768, 16 p. Mar. 1949. 1.9 En83  
E. R. McGovran, F. B. Talley, C. R. Smith, D. H. Saunders, and C. F. Woodward, joint authors.
- 45989 MAYEUX, H. S. Cotton insect pest control in the Lower Rio Grande Valley. Tex. Farming & Citric. 25(10): 6-7, 23. Apr. 1949. 80 T31
- 45990 MILBRATH, D. G. 1949 spray summary for deciduous fruits, nuts. Calif. Farm Bur. Monthly 30(2): 14-16, 19. Feb. 1949. 275.293 Calif.
- 45991 MILES, H. W., and MILES, M. Insect pests of glasshouse crops. Ed. 2, rev. London, Lockwood, 1948. 200 p. (Agr. and Hort. Ser.) 423 M59
- 45992 MILTON, R. H. Controlling garden insects. Prog. Farmer, Ky.-Tenn.-W. Va. Ed. 64(4): 132. Apr. 1949. 6 P945K
- 45993 MOORE, L. A., CARTER, R. H., and POOS, F. W. Insecticide studies with dairy cattle. J. Milk & Food Technol. 12: 103-104. Mar./Apr. 1949. 44.8 J824  
Effects of DDT residues on crops fed to dairy cattle.
- 45994 MORETTI, L. R. Western use of non-metallic minerals. Agr. Chem. 4(3): 24-27, 93. Mar. 1949. 381 Ag8  
Insecticidal carriers.
- 45995 MOTE, D. C., and OWENS, C. E. Insect pests and diseases of currants and gooseberries. Oreg. Agr. Expt. Sta. C. 152, rev., 14 p. Dec. 1948. 100 Or3
- 45996 MURPHY CHEMICAL COMPANY, LTD. Mufume azobenzene smoke. Wheathampstead, Eng., 1948. 4 p. 423 M95M
- 45997 MUSANTE, C., and PARRINI, V. Synthesis of biphenylic DDT. (In Italian.) Chim. e l'Indus. 31(2): 42-43. Feb. 1949. 385 G43
- 45998 NAGASAWA, S., UTIDA, S., and TOSIMA, N. Biological method of testing insecticides. (In Japanese.) Botyu-Kagaku 1948(10): 69-80. Ref. Sept. 1948. 421 B65
- 45999 NETTLES, W. C., and LEWIS, J. M. New insecticides for insect control on flue-cured tobacco. Clemson Agr. Col. S. C. Ext. C. 328, 8 p.-folder. Feb. 1949. 275.29 S80E
- 46000 NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1948 spraying and dusting recommendations for potatoes. N. J. Agr. Col. Ext. Spray Calendar 32, 4 p. Mar. 1948. 275.29 N46Sp
- 46001 NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1948 spraying recommendations for apples. N. J. Agr. Col. Ext. Spray Calendar 30, 12 p. Jan. 1948. 275.29 N46Sp
- 46002 NIELSEN, H. Summer spraying of the fruit trees. (In Danish.) Haven 49: 53. Apr. 1949. 80 H29
- 46003 PECK, D. R. Stability of TEPP and HETP insecticides. Chem. & Indus. 1949: 187. Mar. 19, 1949. 382 M31C
- 46004 PERRET, J. E. Sur la paternité de l'insecticide appelé hexachlorocyclohexane (HCH). Inform. Maroc. 411: 1, 3. Nov. 27, 1948. 281.8 In3
- 46005 PLANK, H. K., and WINTERS, H. F. Insect and other animal pests of cinchona and their control in Puerto Rico. Puerto Rico. Fed. Expt. Sta. Mayaguez. B. 46, 16 p. Ref. Feb. 1949. 1 Ex65
- 46006 PUIG, J. B. Insecticidas aplicados contra la parasitología del algodónero. Siembra 1948(12): 17-21. Dec. 1948. 15 Si1
- 46007 QUINTANILLA, R. H. Los insectarios y la lucha contra las plagas. Bolsa de Com., Rosario. Rev. 37(890): 25-27. Feb. 15, 1949. 287 R71
- 46008 RAMSAY A., J. Insectos. Agr. Austral 14: 7513-7519. Dec. 1948. 9.3 Ag842  
Pests of stored food.
- 46009 RAUCOURT, M. Normes applicables aux produits antiparasitaires agricoles. Ann. de la Mach. Agr. 3: 167-177. 1948. 58.8 An7
- 46010 RENJHEN, P. L. Spraying fruit trees. Indian Farming 9: 377-378. Sept. 1948. 22 In283
- 46011 RIEMSCHEIDER, R. M410 als kontakt-insektizid der halogenkohlenwasserstoffklasse. Berlin, 1948. 12 p. 423 R44  
Tests with chlordane and other insecticides against flies and other insects.
- 46012 RIEMSCHEIDER, R. Über die steigerung der initialtoxizität und dauerwirkung des  $\beta,\beta,\beta$ -trichlor- $\alpha,\alpha$ -bis-(4-chlor-phenyl)-äthan (p,p'-DDT-wirkstoff). Berlin, 1948. 8 p. 423 R44U
- 46013 RISBEC, J., and MALLAMAIRE, A. Les animaux prédateurs et les insectes parasites des riz cultivés en Afrique Occidentale. Agron. Trop. 4: 70-76. Jan./Feb. 1949. 26 Ag86
- 46014 SCHNEIDER, F. Parathion, ein neues insektizid für den obstbau. Schweiz. Z. f. Obst u. Weinbau 58: 33-37. Jan. 15, 1949. 80 Sch9
- 46015 SHEWELL-COOPER, W. E. Preventing plum damage. Smallholder 80(2029): 10. Feb. 18, 1949. 10 Sm1  
Diseases and pests.
- 46016 SIMONET, B. Lo que va de ayer a hoy. Balearic Isl. Diputación Prov. B. de Agr. 52: 4-5. Jan. 1949. 15 B19  
Control of plant pests and diseases.
- 46017 SMART, J. A handbook for the identification of insects of medical importance. Ed. 2. London, Brit. Mus., 1948. 295 p. 423.2 Sm2  
Includes arachnids, pentastomids, diplopods, and chilopods.
- 46018 SQUIRE, F. A. Note on the use of palm oil as a solvent for D.D.T. Farm Forest 9: 27-28. Jan./June 1948. 24 F226
- 46019 STATE recommendations for controlling insects in 1949. Cotton Gin & Oil Mill Press 50(7): 13-14, 16, 46-48, 52-56, 58-66. Apr. 2, 1949. 304.8 C822
- 46020 STEARNS, C. R., JR. The use of deflocculators when combining neutral proprietary copper compounds with oil sprays. Citrus Indus. 30(4): 14. Apr. 1949. 80 C49
- 46021 STELLWAAG, F. Einige ergebnisse der physiologischen wertbestimmung neuer synthetischer kontaktgifte. Ztschr. f. Pflanzenkrank. 55: 53-57. Jan. 1948. 464.8 Z3
- 46022 SUZUKI, M., and NAKAJIMA, M. The quantitative analysis of  $\gamma$ -isomer of 1,2,3,4,5,6-hexachlorocyclohexane (gammexane) by the polarographic method. (Studies on insecticides and fungicides by the polarographic method. I.). (In Japanese.) Botyu-Kagaku 1948(10): 31-37. Sept. 1948. 421 B65  
English summary.
- 46023 TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Guide for controlling cotton insects in Texas, 1949. Tex. Agr. Col. Ext. C. 182, rev., 6 p. 1949. 275.29 T312C
- 46024 TIRELLI, M. New organic synthetic insecticides used for agricultural purposes in Italy. (In Italian.) Riv. di Parassitol. 9: 11-18. Ref. Mar. 1948. 436.8 R52  
French and English summaries.  
DDT and benzene hexachloride.



46025 TUNBLAD, B. Spraying of apples and pears. (In Swedish.) Försök och Forskning 6: 14-15. Feb. 1949. 11 F77

46026 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Insect pest survey; summary of insect conditions in 1948. Washington? 1949? 23 p. 1.967 A2Su6

46027 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the British Colony of Trinidad and Tobago. U. S. Bur. Ent. and Plant Quar. B.E.P.Q. 418, rev., 8 p. Mar. 16, 1949. 1.9 F73

46028 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Republic of Venezuela. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 497, 2d rev., 4 p. Mar. 22, 1949. 1.9 F73

46029 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Summary of State nursery stock shipping requirements and plant quarantines and regulations affecting interstate shipments. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 578-4, 9 p. Mar. 23, 1949. 1.9 F73

46030 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Synthesis of pyrethrin-like esters, by F. C. Bishopp. Washington, 1949. 2 p. 1.967 A2Sy7

46031 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. DIV. OF INSECTS AFFECTING MAN AND ANIMALS. The new insecticides for controlling external parasites of livestock. U. S. Bur. Ent. and Plant Quar. E-762, rev., 25 p. Apr. 1949. 1.9 En83

46032 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Aerosols for home and greenhouse, by R. A. Fulton, F. F. Smith, R. H. Nelson, and D. Reynolds. Washington, 1949. 5 p. 1.914 R2R11

Insect pest control.

46033 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Insect problems, by D. Hall and D. Lerch. Washington? 1949. 2 p. 1.914 R2R11

46034 U. S. INTERDEPARTMENTAL COMMITTEE ON PEST CONTROL. Heptachlor; a common name for a complex chlorinated hydrocarbon used experimentally as an insecticide. Washington, 1949. 2 p. 173 In824H

Signed: S. A. Rohwer.

46035 U. S. INTERDEPARTMENTAL COMMITTEE ON PEST CONTROL. Toxaphene; a common name for the insecticidal chemical chlorinated camphene, 67%-69% chlorine. Washington, 1949. 1 p. 173 In824T

Signed: S. A. Rohwer.

46036 VINCENT, D., TRUHAUT, R., and ABADIE, A. Contribution à l'étude du mécanisme de l'action toxique de l'insecticide D. D. T. D. D. T. et systèmes cholinestérasiques chez les animaux supérieurs et les insectes. Soc. de Biol. Compt. Rend. 142: 1500-1502. Dec. 1948. 442.9 P21

46037 WHITE, G. D. An apparatus for rapidly inspecting both sides of small objects. U. S. Bur. Ent. and Plant Quar. ET-265, 4 p. Mar. 1949. 1.9 En83Et

46038 WOODBURY, E. N. Progress report on toxaphene. Agr. Chem. 4(3): 31-32. Mar. 1949. 381 Ag8

46039 WOODLE, H. A., and others. Cotton production and insect control, South Carolina, 1949. Clemson Agr. Col. S. C. Ext. C. 324, 8 p. Jan. 1949. 275.29 So8E

H. G. Boylston, S. A. Williams, W. C. Nettles, and L. M. Sparks, Jr., joint authors.

46040 YERXA, C. Better pest control on vegetables. Calif. Farmer, North. Ed. 190: 304. Mar. 26, 1949. 6 C126

46041 YU, C. S. The control of stored grain insects in China. (In Chinese.) Ent. News [Nanking] 2: 47. Oct. 1948. 421 En816

English summary.

#### APICULTURE AND APIS MELLIFERA

46042 ALLAN, P. F. Behold the busy bee! Soil Conserv. 14: 202-203. Apr. 1949. 1.6 So3S

Planned pollination.

46043 ALLEN, A. L. S. Pollination problem; when bees may be necessary. Fruit-Grower 107: 320. Mar. 17, 1949. 80 F941

46044 BERNETT, A. W. Packages: installation and management. Beekeepers' Mag. 12(4): 12-14. Apr. 1949. 424.8 M58

46045 BRUNET. Miel granulé dans les cadres. Miel et cire d'opercules. Apiculteur 92: 294-295. Nov. 1948. 424.8 Ap3

46046 BUTLER, C. G. Some observations on the sense physiology of the honeybee. (Abs.) Chem. & Indus. 1949: 189-190. Mar. 19, 1949. 382 M31C

Apis mellifera.

46047 CAMPBELL, J. Extension of the foul brood order? Good Bee-Keeping 4: 9. Jan. 1949. Ent. Sub-Br. Libr.

46048 CEDERHOLM, Y. Experimental beekeeping in Lapland's mountain areas. (In Swedish.) Bitidningen 48: 41-44. Feb./Mar. 1949. 424.8 B54

46049 CONCORDET, M. Le Massif Central en 1948. Apiculteur 93: 8-9. Jan. 1949. 424.8 Ap3

46050 DEMEYER, E. Le thé pour abeilles. Belg. Apic. 13: 37. Mar. 1949. 424.8 B41

46051 DOHERTY, C. A beginner begins. Gleanings Bee Cult. 77: 206-207. Apr. 1949. 424.8 G47

46052 DUFLOT, E. Abeilles et oiseaux. Gaz. Apic. 1949: 48-50. Feb. 1949. 424.8 G25

Arsenicals used as fruit sprays, and their effect on birds (as insect predators) and bees (as pollinators).

46053 EAVES, D. Bees in clover. Beekeepers' Mag. 12(4): 9-11. Apr. 1949. 424.8 M58

46054 ECKERT, J. E. The present relation of insecticides to beekeeping. Amer. Bee J. 89: 182, 175. (To be cont.) Apr. 1949. 424.8 Am3

46055 FARNHAM, B. W. Busy bees benefit [cranberry] bogs. New England Homestead 122(5): 11, 32. Mar. 12, 1949. 6 N442

Honey bees as pollinators.

46056 FITZPATRICK, D. Nosema apis. Irish Beekeeper 3: 38-40. (Concl.) Feb. 1949. 424.8 Ir42

46057 FREZAL, P., and GRIESSINGER, C. Action sur les abeilles des traitements à base de D. D. T. et de S. P. C. Gaz. Apic. 1949: 18-19. Jan. 1949. 424.8 G25

46058 FURNISS, H. Bee behaviour. Good Bee-Keeping 4: 5-7. Jan. 1949. Ent. Sub-Br. Libr.

46059 GENTIL. Glucose toxique. Apiculteur 93: 9-11. Jan. 1949. 424.8 Ap3

46060 GROUT, R. A., ed. The hive and the honey bee; a new book on beekeeping to succeed the book "Langstroth on the hive and the honeybee." Rev. ed. Hamilton, Ill., Dadant, 1949. 652 p. Ref. 424 G912

46061 GUILHON, J. Parasitisme des abeilles par les larves de Diptères. Acad. d'Agr. de France 35: 101-102. Feb. 2/9, 1949. 14 P215Bc

46062 HERBOLSHEIMER, A. Schutzdecke für die rückwand der bienenwohnung. Imkerfreund 4: 21. Feb. 1949. 424.8 Im43

46063 HITCHIN, H. E. Bee breeding in Britain. Good Bee-Keeping 4: 7-9, 20-22, 36-37, 54-55. (Cont.) Jan.-Apr. 1949. Ent. Sub-Br. Libr.

46064 HUGHES, T. J. Bees will keep him. Mo. Ruralist 90(5): 36. Mar. 12, 1949. 6 R8891

Hints on beekeeping for beginners.

46065 HURPIN, J. Que penser de l'insémination artificielle au rucher? Rustica 22: 89. Jan. 30, 1949. 14 R92

46066 JAUME, and DANUS. Apicultor mallorquín. Balearic Isl. Diputación Prov. B. de Agr. 52: 8. Jan. 1949. 15 B19

46067 JONES, J. P. The origin, composition and properties of honey. (Abs.) Chem. & Indus. 1949: 189-190. Mar. 19, 1949. 382 M31C

46068 KAESER, W. Zur frage einer temperaturbedingten widerstandsfähigkeit der honigbiene (Apis mellifica L.) gegenüber dem kontaktinsektizid DDT (gesarol). Anz. f. Schädlingssk. 21: 129-132. Ref. Dec. 1948. 421 An9

46069 KELLEY, W. T. We go to south Texas. Mod. Beekeeping 33: 40-44, 58. Feb. 15, 1949. 424.8 B397

46070 KLEIN, F. Die flugbeobachtung am bienenstand. Landfrau 4(2): 24. Feb. 1949. 18 L2337

46071 KOOVER, C. J. Painting hives. Gleanings Bee Cult. 77: 213, 248, 252. Apr. 1949. 424.8 G47

46072 KRAUSS. Das sparen im beutenbau. Imkerfreund 4: 17-18. Feb. 1949. 424.8 Im43

46073 LECLERCQ, P. L'élevage aux Etats-Unis. Abeille et l'Érable (ser. 2) 18: 34-35. Mar. 1949. 424.8 Ab32

46074 LINDHOLM, R. Electric heating. (In Swedish.) Bitidningen 48: 54. Feb./Mar. 1949. 424.8 B54

In beehives.



- 46075 LØLAND, K. Standardization of beehive material. (In Norwegian.) *Birøkteren* 65: 11-12. Jan. 1949. Ent. Sub-Br. Libr.
- 46076 LOUVEAUX, J., and LAVIE, P. Un cas de toxicité des fleurs du tilleul argenté pour les abeilles. *Apiculteur* 93(1, sup.): 9-12. Jan. 1949. 424.8 Ap3
- 46077 LUNDER, R., and BERG, P. J. Control stations in apiculture 1948. (In Norwegian.) *Birøkteren* 65: 2-8. Jan. 1949. Ent. Sub-Br. Libr.
- 46078 MAASS, E. Die Deutsche Landwirtschafts-Gesellschaft und die bienenzucht. *Imkerfreund* 3: 76. Sept. 1948. 424.8 Im43
- 46079 MATHIS, M. La ruche "en livre" ou "en feuillets" de François Huber de Genève. *Gaz. Apic.* 1949: 38-45. Feb. 1949. 424.8 G25
- 46080 MATHIS, M. Traitement physiologique des loques dites "américaines et européennes" des abeilles. *Acad. Vét. de France. B.* 22: 57-60. Jan. 1949. 41.9 R24
- 46081 MIRA, E. (HIJO.). Economía apícola. *Cooperación* 8(83): 12-13, 33. Jan. 1949. 280.28 C7875
- 46082 MOREAUX, R., and MARCHAL. Un grand débat qui oppose les thèses du Dr. René Moreaux et du Dr. Maurice Mathis sur la transformation des nectars en miel. *Gaz. Apic.* 1949: 10-14. Jan. 1949. 424.8 G25
- 46083 MORISON, D. L. American foul brood: the problem in New South Wales. *Austral. Bee J.* 30: 14-15. (Cont.) Jan. 1949. 424.8 V66
- 46084 MORISON, D. L. Effect of rainfall on eucalypt honey flows. *Agr. Gaz. N. S. Wales* 60: 45-47. Jan. 1949. 23 N472
- 46085 MORRIS, W. T. Make wind proof your hive roof. *Good Bee-Keeping* 4: 30. Feb. 1949. Ent. Sub-Br. Libr.
- 46086 MULLER, A. Ausbau der bienenzucht im Alpenvorland. *Allgäuer Bauernbl.* 17: 105. Feb. 25, 1949. 18 AL53
- 46087 NARDIN ERGUETA, J. Conceptos generales sobre apicultura. *Campo [La Paz]* 2(20): 9-12. Dec. 1948. 9.1 C15
- 46088 NEUMANN, F. Die imkerei. I. Notwendige grundkenntnisse der biene. Kassel, Zahnwetzler, 1948. 32 p. (Unser Garten. 8) 424 N39
- 46089 NOVIKOV, G. Farm structures of small size; bee cellar for 30 colonies. (In Russian.) *Sel'sk. Stroitel'* 3(5): 21-22. Sept./Oct. 1948. 296.28 Se4
- 46090 ORDET, G. S. Estudio sobre el néctar y su conversión en miel de abeja. *Cuba. Min. de Agr. Rev.* (ser. 6) 31(32): 13-17. July/Dec. 1948. 8 Ag88Re
- 46091 PARSONS, A. C. To find wild honey. *Nat. Hist.* 58: 185-189. Apr. 1949. 500 N483J
- 46092 PHELAN, V. J. Bee-keeping in south Tipperary. *Irish Beekeeper* 3: 27-28. Feb. 1949. 424.8 Ir42
- 46093 PHILLIPS, E. F. Palladius on husbandrie. *Gleanings Bee Cult.* 77: 214-215. Apr. 1949. 424.8 G47
- 46094 POLTEV, V. I. Bolezni pchel [Diseases of bees]. Ed. 2. Moskva, Sel'khozgiz, 1948. 304 p. 424 P76
- 46095 PONZI, L. S. Importancia de la cera en el colmenar y diversas formas de obtenerla. *Campo y Suelo Argentino* 32(387): 43. Jan. 1949. 9 C15
- 46096 REHMAN, G. Comb honey production. *Gleanings Bee Cult.* 77: 216. (Cont.) Apr. 1949. 424.8 G47
- 46097 RESEARCH work in honey. III. Mod. Beekeeping 33: 51-54, 58. Feb. 15, 1949. 424.8 B397
- 46098 RUSSWURM, X. Oberbehandlung mit warmbau. *Imkerfreund* 4: 18-19. Feb. 1949. 424.8 Im43
- 46099 SALE, F. My Perspex observation hive. *Good Bee-Keeping* 4: 40-41. Mar. 1949. Ent. Sub-Br. Libr.
- 46100 SCHMIDT, H. Verhütung von stocknässe. *Imkerfreund* 4: 19. Feb. 1949. 424.8 Im43
- 46101 SCOTT, T. L. Bee anatomy. Internal. Section 5. II. Digestive tract. Nervous system. Microscope & Ent. Monthly 7: 159-166. (Cont.) Mar./Apr. 1949. 440.8 M584
- 46102 SECHRIST, E. L. Heated hives helped. *Bee-keepers' Mag.* 12(4): 22. Apr. 1949. 424.8 M58
- 46103 SIGNAC, H. Le rayon coudé. *Gaz. Apic.* 1949: 51. Feb. 1949. 424.8 G25
- 46104 SPATZAL, J. Vom flüchtlingsimker bis zum honigpreis. *Imkerfreund* 3: 75. Sept. 1948. 424.8 Im43
- 46105 SRIVASTAVA, A. S., and SREENIVASAYA, M. Bee research stations for India. *Cur. Sci. [Bangalore]* 18: 36-37. Feb. 1949. 475 Sci23
- 46106 STEPHEN, W. A. Bee lines. *N. C. Agr. Col. Ext. C.* 334, 30 p. Mar. 1949. 275.29 N811
- 46107 STEPHEN, W. A. Beekeeping in North Carolina. *Gleanings Bee Cult.* 77: 201-205. Apr. 1949. 424.8 G47
- 46108 STUART, F. S. City of the bees. New York, Whittlesey House, 1949. 243 p. 424 St92
- 46109 TOWNSEND, G. F. Nature badly out of balance. *Farmer's Advocate & Home Mag.* 84: 173, 212. Mar. 10, 1949. 7 F22
- 46110 TUZI, C. Bees and honey. (In Italian.) *Terra e Sole* 79: 101. Mar. 1949. 16 T273
- 46111 TYLDEN, E. Electric heating in the beehives. (In Norwegian.) *Birøkteren* 65: 14-18. Feb. 1949. Ent. Sub-Br. Libr.
- 46112 VETLESAND, L. Beekeeping as a sideline in West Norway. (In Norwegian.) *Birøkteren* 65: 26-27. Feb. 1949. Ent. Sub-Br. Libr.
- 46113 WADLEIGH, R. T. Bee keeping requires specialized knowledge. *San Luis Val. Farmer & Stockman* 3(7): 5, 12. Mar. 1949. 6 Sa52
- 46114 WEISS, S. Seuchenfreie Brutablage. *Imkerfreund* 3: 95. Oct. 1948. 424.8 Im43
- 46115 XIMENEZ DE EMBUN, J. La apicultura en los montes de Baleares. *Balearic Isl. Diputación Prov. B. de Agr.* 52: 9. Jan. 1949. 15 B19
- 46116 YOXALL, J. Plastics and the beekeeper. *Brit. Plastics* 21: 197-199. Apr. 1949. 309.8 B76
- 46117 ZAKHAREVICH, V. I. Priusadebnaia paseka [Farmstead apiaries]. Moskva, Moskovskii Rabochii, 1948. 109 p. 424 Z14
- 46118 ZANDER, E. The honeybee - our helper. (In Swedish.) *Bitidningen* 48: 37-41. Feb./Mar. 1949. 424.8 B54

## Colony Management

- 46119 AMERY, J. W. Swarming: some causes and ways of prevention. *Good Bee-Keeping* 4: 61-62. (To be cont.) Apr. 1949. Ent. Sub-Br. Libr.
- 46120 BARNES, R. W. The battle of the snowdrifts. *Amer. Bee J.* 89: 180-181. Apr. 1949. 424.8 Am3
- 46121 BÖTTCHER, F. K. Treibversuch mit reinigungsflug. Erfahrungen mit dem treiben der bienenvölker zu vorzeitiger brutaufzucht im frühjahr. IV. Mitteilung: Ein treibversuch mit hilfe des künstlichen reinigungsfluges im verbesserten flugkasten. *Imkerfreund* 4: 23-25. Feb. 1949. 424.8 Im43
- 46122 BRUNET. Comment utiliser les petits essaims tardifs? *Apiculteur* 93: 11-13. Jan. 1949. 424.8 Ap3
- 46123 BÜDEL, A. Wann wird der winter den bienen gefährlich? *Imkerfreund* 4: 20-21. Feb. 1949. 424.8 Im43
- 46124 DINEUR, R. Une vieille abeille vous parle. *Belg. Apic.* 13: 25-27. Mar. 1949. 424.8 B41
- 46125 HEATON, D. What do we know about bees? *Good Bee-Keeping* 4: 25-26. Feb. 1949. Ent. Sub-Br. Libr.
- 46126 HEBDEN, A. Looking both ways. *Good Bee-Keeping* 4: 2-4. Jan. 1949. Ent. Sub-Br. Libr.
- 46127 HOLZBERLEIN, J. W., JR. Putting those big colonies to work. *Amer. Bee J.* 89: 184-185, 195. Apr. 1949. 424.8 Am3
- 46128 HURPIN, J. Ruches orphelines. *Rustica* 22: 254. Mar. 27, 1949. 14 R92
- 46129 HURPIN, J. Visite de printemps au rucher. *Rustica* 22(11): 223. Mar. 13, 1949. 14 R92
- 46130 KADESJÖ, S. Theft. (In Swedish.) *Bitidningen* 48: 44-45. Feb./Mar. 1949. 424.8 B54
- 46131 LEFORT DES YLOUSES, G. Propriété des essaims. *Apiculteur* 93: 7-8. Jan. 1949. 424.8 Ap3
- 46132 MATHIS, M. Colonies d'abeilles entretenant et nourrissant plusieurs dizaines de reines vierges et fécondées. *Belg. Apic.* 13: 33-35. Mar. 1949. 424.8 B41



46133 NETO, P. N. Clarifications on the rational hive for some native bees. III. (In Portuguese.) Chacara Quintais 79: 315-316. Mar. 15, 1949. 9.2 C34 Brazil.

46134 NILSEN, A. Take a look at the comb foundation. (In Norwegian.) Birøkteren 65: 21-22. Feb. 1949. Ent. Sub-Br. Libr.

Effect of cell size on the size of the bee.

46135 NUNN, A. How to avoid swarming. Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(4): 44-45. Apr. 1949. 6 P945G

46136 PAVORD, A. V. Basic manipulations. Good Bee-Keeping 4: 18-19, 34-35, 50-52. Feb.-Apr. 1949. Ent. Sub-Br. Libr.

Subduing and handling; spring diagnosis.

46137 ROSWALL, G. How does one learn to take care of bees? (In Swedish.) Bitidningen 48: 60-63. Feb./Mar. 1949. 424.8 B54

46138 ROUSSY, L. Quelques méthodes de calfeutrage des colonies d'abeilles pour l'hivernage. Gaz. Apic. 1949: 8-9. Jan. 1949. 424.8 G25

46139 SACRÉ, A. L'hivernage. Belg. Apic. 13: 28-30. (To be cont.) Mar. 1949. 424.8 B41

46140 SOLANO, R. La trashumancia apícola. Cult. Mod. 30: 134. Apr. 1947. 15 C89

46141 TOULZ, C. Méthodes californiennes; accroissement des colonies au début du printemps dans les pays de l'Ouest. Gaz. Apic. 1949: 16-17. Jan. 1949. 424.8 G25

46142 WORTH, A. Colony development. Good Bee-Keeping 4: 27-28, 38-39, 57-59. (To be cont.) Feb.-Apr. 1949. Ent. Sub-Br. Libr.

See also Honey and Beeswax in Agricultural Products Section.

#### ARACHNIDA, MYRIAPODA, ETC.

46143 AULT, C. N. Investigaciones sobre las dificultades de combatir la garrapata Boophilus microplus. Rev. de Med. Vet. [Buenos Aires] 30: 174-211. (To be cont.) July/Sept. 1948. 41.8 B86

46144 BAKER, E. T. Cyclamen mite [Tarsonemus pallidus]. African Violet Mag. 2(3): 11. 1949. 80 Af8

46145 BERLAND, L. Les scorpions. Ed. 13. Paris, Stock, 1948. 201 p. Ref. 434 B453

46146 BOLLOW, H. Von spinnentieren. Orion 4: 41-48. Jan. 15, 1949. 474 Or4

46147 CHAMBERLIN, R. V. Some millipeds of the families Polydesmidae and Xystodesmidae. Wash. Acad. Sci. J. 39: 94-102. Mar. 15, 1949. 500 W276J

New species in Ergodesmus n. g., Kapolydesmus, Nearctodesmus, Pseudopolydesmus, Cheiraxus n. g., Delocheir n. g., Xystocheir, Apheloria, Epeloria, Phanoria n. g., Zinaria. Also, Amplocheir n. g.

46148 COLLADO, J. G. Las garrapatas del perro. Campo y Suelo Argentino 32(387): 60-61. (To be cont.) Jan. 1949. 9 C15

Rhipicephalus and Ixodes.

46149 DAY, W. C. The heat's on! Calif. Fruit & Grape Grower 3(3): 17. Mar. 1949. 95.8 G762

Hot water dip for Tarsonemus pallidus on strawberry.

46150 DRESCO, E. Remarques sur le genre Dicranopalpus Dol. et description de deux espèces nouvelles (Opiliones). Paris Mus. d'Hist. Nat. (ser. 2) 20: 336-342. June 1948. 410.9 P213

46151 EFRATI, P. Poisoning by scorpion stings in Israel. Amer. J. Trop. Med. 29: 249-257. Ref. Mar. 1949. 448.8 Am33

46152 FORSTER, R. R. A new sub-family [Monoscutinae] and species of New Zealand Opiliones. Auckland Inst. and Mus. Rec. 3: 313-318. Dec. 1948. 514 Au22R

New spp. in: Monoscutum n. g., Acihasta n. g., Triregia n. g.

46153 FOX, I. Five new mites from rats in Puerto Rico. Fla. Ent. 32: 37-40. Mar. 1949. 420 F662

New species in Gamasisphs, Parasitus, Borinquolaclaps, and Uropoda.

46154 GOLDMAN, L., and FELDMAN, M. D. Human infestation with scabies of monkeys. Arch. Dermat. & Syph. 59: 175-178. Feb. 1949. 448.8 Ar242

Sarcoptes scabiei.

46155 GRANDJEAN, F. Sur les Hydrozetes (Acaris) de l'Europe occidentale. Paris Mus. d'Hist. Nat. (ser. 2) 20: 328-335. June 1948. 410.9 P213

46156 HERMS, W. B. Ticks (Acarina-Ixodoidea) in the causation of animal disorders and as vectors of disease, with some observations on relapsing fever in California [transmitted by Ornithodoros hermsi]. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1645-1653. Ref. 1948. 150 In822

46157 MCCAY, C. M., and UDALL, R. H. Phenothiazine in the treatment of demodectic mange. Cornell Vet. 39: 73-76. Jan. 1949. 41.8 C81

Demodex canis in dogs.

46158 MELLANBY, K. Mites in relation to scabies. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1654-1655. 1948. 150 In822

Sarcoptes scabiei.

46159 MILLER, MRS. N. C. Mite [Tarsonemus pallidus], water bath and selenate. African Violet Mag. 2(3): 17-27, 34. 1949. 80 Af8

46160 MITCHELL, A. E., and others. The relation between different methods of applying parathion and the amounts deposited on apple leaves for the control of European red mite [Paratetranychus pilosus]. Mich. Agr. Expt. Sta. Q. B. 31: 309-312. Feb. 1949. 100 M58S

H. King, E. K. Carr, and E. J. Benne, joint authors.

46161 MORNET, P., and MAHOU, R. La démodicie chez les bovins de l'Ouest Africain. Acad. Vét. de France. B. 22: 87-92. Jan. 1949. 41.9 R24

Demodex bovis.

46162 NEWELL, I. M. New genera and species of Halacaridae (Acar). Amer. Mus. Nat. Hist. Amer. Mus. Novitates 1411, 22 p. Mar. 3, 1949. 500 N483N

New species in Thalassacarus n. g., Agaue, and Copidognathus; also Anomalohalacarus n. g.

46163 PHILIP, C. B., and KOHLS, G. M. Mites and scrub typhus. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1656-1663. Ref. 1948. 150 In822

Trombicula akamushi, T. deliensis.

46164 SAVAGE, R. L., WILSON, R. Q., and YOCOM, J. E. Process development of DMC [di-(p-chlorophenyl) methyl carbinol], a new miticide. Chem. Indus. 64: 392-393. Mar. 1949. 381 C426

46165 SERGENT, E. Douze années de sérothérapie antiscorpionique. Inst. Pasteur Ann. 76: 50-52. Jan. 1949. 448.3 An75

46166 SOETARDI, R. G. Short report on the result of an inquiry on the occurrence and the control of mites in Hevea nursery beds. (In Dutch.) Bergcultures 18: 103. Mar. 1, 1949. 22.5 B45

46167 SOUZA, O. P. C. DE. Tick control. (In Portuguese.) Rev. dos Criadores 20(2): 55-56. Feb. 1949. 43.8 R32

Preparations for cattle and sheep dips.

46168 VANDEL, A. Les Isopodes volvationnels exoantennés et la genèse de leurs coaptations. B. Biol. de la France et Belg. 82: 388-428. Ref. 1948. 473 B87

46169 VANDEL, A. Une nouvelle espèce de Ligie de la côte occidentale d'Afrique: Ligia curvata n. sp. Paris Mus. d'Hist. Nat. (ser. 2) 20: 322-324. June 1948. 410.9 P213

46170 VERGANI, A. R. La arañuela de los frutales Bryobia praetiosa Koch. Campo y Suelo Argentino 32 (387): 68. Jan. 1949. 9 C15

46171 VOGELSANG, E. G., and ESPIN, J. Demodex phylloides Csokor, 1879 parásito del suino (Sus scropha domesticus) en Venezuela. Rev. de Med. Vet. y Parasitol. 7: 35-45. Ref. 1948. 41.8 R3293

46172 WIEHLE, H. Krabbenspinnen [Misumena calycina]. Natur u. Volk 79: 11-15. Feb. 1, 1949. 509 F856

46173 ZATTLER, F. Spritzversuche in der jahren 1946 und 1947 zur verhütung des kupferbrandes im hopfenbau. Anz. f. Schädlingsk. 21: 113-121. Nov. 1948. 421 An9

Due to Epitetranychus althaeae.

#### COLEOPTERA

46174 ABBAYES, J. DES. Quelques Coléoptères carabides intéressants pour l'Ouest de la France. Soc. Sci. de Bretagne. B. (Sci. Math., Phys. et Nat.) 22: 63-64. 1947, pub. 1948. 505 R292

46175 ALFARO, A. Algunos aspectos de la biología del escarabajo de la patata (Leptinotarsa decemlineata Say). Spain. Serv. de Defensa Sanit. de la Patata. P. 20, 14 p. 1948. 464.9 Sp13



- 46176 ALFARO, A. La "enfermedad del clavo" en manzanos y perales. *Agricultura* [Madrid] 18: 2-5. Jan. 1949. 15 Ag84  
Anthonomus pomorum.
- 46177 ANDERSON, J. M. Observations on spermatogenesis in the Japanese beetle, *Popillia japonica* Newman. (Abs.) *Anat. Rec.* 103: 526-527. Mar. 1949. 447.8 An1
- 46178 ARNETT, R. H., JR. The abdominal morphology of male *Sessinia decolor* (Fairm.): Oedemeridae. *Coleopterists' B.* 3: 9-12. 1949. 421 C674
- 46179 ASHE, G. H. *Hylobius transversovittatus* Goeze (Curculionidae) and other Coleoptera in south west England. *Ent. Monthly Mag.* 85: 74. Mar. 1949. 421 En86
- 46180 BARRENO, J. A mi maíz ya lo favorezco del gorgojo. *Rev. de Agr., Com. e Indus.* [Panama] 7(82): 45-46. June 1948. 8 R3291
- 46181 BROWNE, F. G. Notes on Malayan Scolytoidea (Coleoptera) with descriptions of new species. *Ann. & Mag. Nat. Hist.* (ser. 12) 1: 892-912. Dec. 1948, pub. Mar. 29, 1949. 410 An77  
Includes new species in *Diamerides* n. g., *Phloeosinus*, *Dryocoetes*, *Streptocranus*, *Cryptoxyleborus*, and *Platypus*.
- 46182 CARVALHO, E. L. DE. Studies on the family Scaritidae Bonelli (Coleoptera - Caraboidea). (In Portuguese.) *Coimbra U. Mus. Zool. Mem. e Estud.* 187, 13 p. Ref. 1948. 410.9 C66  
Includes new forms in Scarites.
- 46183 CHANG, S. M. A list of Phytophaga collected from Lushan. (In Chinese.) *Ent. News* [Nanking] 2: 48-49. Oct. 1948. 421 En816  
English summary.  
Bruchidae, Chrysomelidae, Cerambycidae.
- 46184 DAVIS, L. G. Cut your grain loses with new weevil detection method. *Milling & Feed* 30(4): 11, 29. Apr. 1949. 298.8 C162
- 46185 DAVIS, W. O. How Halifax [County, North Carolina] growers get \$5,000,000 more for cotton. *Prog. Farmer, Car.-Va. Ed.* 64(4): 130. Apr. 1949. 6 P945  
Chiefly *Anthonomus grandis* control program.
- 46186 DEVANTOY, J. Les prédateurs et les parasites de la chrysomèle du peuplier [*Melasoma populi* L.]. *Feuille des Nat. (n. s.)* 3: 85-89. Ref. Oct. 1948. 410 F432
- 46187 DIBB, J. R. Beetle ecology. *Coleopterists' B.* 3: 1-3. (Cont.) 1949. 421 C674
- 46188 DICKER, G. H. L. Apple blossom weevil [*Anthonomus pomorum*]. *Amateur Gard.* 65(3379): 16. Feb. 15, 1949. 80 Am13
- 46189 DIETRICH, J. A., and BALIN, J. Greenwich report on DDT for Scolytus. *Trees* [Cleveland] 9(3): 7-8, 10-11. Mar./Apr. 1949. 99.8 W52
- 46190 EBELING, W., and PENCE, R. J. DDT for June beetles. *Calavo News* 1949: 3-4. Feb. 28, 1949. 280.28 C12  
*Serica fimbriata* and *S. alternata*.
- 46191 ERNOULD, L. La lutte contre les taupins. *Inst. Belge pour l'Amélior. de la Betterave.* P. 16: 299-312. Ref. Nov./Dec. 1948. 66.9 In7  
English and Flemish summaries.
- 46192 ESPAÑOL COLL, F. Notas sobre Coleopteros africanos. 1-2. *Eos* 24: 311-318. Oct. 31, 1948. 421 Eo7  
1. Un nuevo "Acotulus" (Colydiidae) del Sáhara Español.  
2. El género "Cnemeplatia" (Tenebrionidae) en el Congo Belga.
- 46193 FENDER, K. M. Beetles in drift. *Coleopterists' B.* 3: 5-6. 1949. 421 C674  
Collecting.
- 46194 FONSECA, J. P. DA. Borers. (In Portuguese.) *Rev. Rural Bras.* 29(340): 28-31. Feb. 1949. 9.2 B733  
Chiefly on beetle borers, but also includes lepidopterous and dipterous forms.
- 46195 GAILLARD, J. L'anthomne du pommier. *Vrai Cognac (n. s.)* 10: 120. Feb. 1949. 14 P29  
*Anthonomus pomorum*.
- 46196 HAEDO ROSSI, J. A. Nota sobre brentidos de la Argentina; género *Brenthus* F. (Col. Rynchophora). *La Plata. Mus. Notas Zool.* 13: 141-144. 1948. 410 L31
- 46197 HARRISON, P. K. Laboratory tests of new compounds as insecticides against the sweetpotato weevil [*Cylas formicarius elegantulus*]. *U. S. Bur. Ent. and Plant Quar.* F-770, 5 p. Mar. 1949. 1.9 En83
- 46198 HASTINGS, E., and PEPPER, J. H. Early spring is the time to stop the alfalfa weevil [*Hypera postical*]. *Mont. Farmer-Stockman* 36(14): 11-12. Mar. 15, 1949. 6 M764
- 46199 HEDDERGOTT. Achtet auf getreidelaufläufer-schäden! *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 72. Jan. 29, 1949. 18 L2346  
*Zabrus tenebrioides*.
- 46200 HICKS, S. D. A note on the occurrence of *Cleonus piger* (Scop.) a European weevil, near Ottawa, Ontario. *Coleopterists' B.* 3: 7. 1949. 421 C674
- 46201 HIXSON, E., MUMA, M. H., and HILL, R. E. Corn rootworm [*Diabrotica longicornis*] control in Nebraska. *Nebr. Agr. Col. Ext. E. C.* 1506, 4 p. Feb. 1949. 275.29 N272Ex
- 46202 IVANOVA, Z. V. Benzene hexachloride for the control of *Bruchus pisorum*. (In Russian.) *Selek. i Semen.* 15(10): 56-58. Oct. 1948. 61.9 Se5
- 46203 JOHNSON, P. C. Determining the bark beetle hazard of pine stands in northeastern California. *J. Forestry* 47: 277-284. Apr. 1949. 99.8 F768
- 46204 JUDD, W. W. The red-legged ham beetle [*Necrobis rufipes*] on imported copra. *Canad. Ent.* 81: 52. Feb. 1949. 421 C16
- 46205 KARPINSKI, J. J. Contribution à la connaissance de la faune d'Ipidae du Parc National Polonais des Pieniny. (In Polish.) *Fragmenta Faunistica* 5: 225-232. Aug. 2, 1948. 410.9 W26F  
French summary.
- 46206 KASIKHIN, A. N., and IATSYNA, L. T. Benzene hexachloride and the problem of the chemical method for the control of wireworms. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(4): 41-44. Ref. 1948. 20 Ak1
- 46207 KHRUSTSELEVSKIĬ, V. P. Necrophorus beetles destroying young field mice. (In Russian.) *Priroda* 37(9): 67. Sept. 1948. 410 P933
- 46208 KLEIN, K. Achtung auf den speisebohnenkäfer [*Acanthoscelides obtectus*]! *Gartenbauwirtschaft* [Wien] 1948(12): 10-11. Dec. 15, 1948. 80 G1936
- 46209 KOCH, C. Die Adesmiini der tropischen und subtropischen savannen Afrikas. *Rev. de Zool. et de Bot. Africaines* 41: 133-200. (Concl.) Ref. Dec. 15, 1948. 410 R326  
Includes new species and forms in *Adesmia*, *Renatiella* n. g., and *Coeladesmia*; and the subgenera *Macradesmia*, *Oteroscelsopsis*, *Somaladesmia*, *Macropodesmia*, *Zambesmia*, and *Spongesmia* in *Adesmia*, and *Spongesmia* and *Hemisphaeresmia* in *Renatiella*.
- 46210 KOCH, C. Beitrag zur kenntnis der tribus Litoborini der Tenebrioniden - unterfamilie der opatrinæ (Col. Ten.). *Eos* 24: 403-433. Oct. 31, 1948. 421 Eo7  
Includes the new genera *Orophylaxus*, *Peyerimhoffius*, *Atlasion*, and *Melambatlasus*, and many new subgenera.
- 46211 KRAEMER, G. D. Borkenkäfer an douglasie. *Anz. f. Schädlingssk.* 21: 133. Dec. 1948. 421 An9  
*Pityogenes chalcographus*, *Pityokteines curvidens*, *P. vorntzowi*, *Pityophthorus micographus*, and *Crypturgus pusillus*.
- 46212 KUROSAWA, Y. Descriptions of new and rare species of the genus *Chrysobothris* Esch. from eastern Asia (Col., Buprestidae). *Mushi* 19: 15-29. Ref. Oct. 15, 1948. 421 M97
- 46213 LHÉRITIER, G. Notes biologiques sur quelques Coléoptères du Maroc. *Feuille des Nat. (n. s.)* 3: 102-104. (Cont.) Nov./Dec. 1948. 410 F432
- 46214 LÖFTING, E. C. L. *Hylesinus piniperda*, its attack and control. (In Danish.) *Hedeselsk. Tidsskr.* 70: 14-19. Jan. 10, 1949. 11 H35  
Pest of conifers.
- 46215 LORD, K. A. The effect of insecticides on the respiration of *Oryzaephilus surinamensis*: an attempt to compare the speeds of action of a number of D.D.T. analogues. *Ann. Appl. Biol.* 36: 113-138. Ref. Mar. 1949. 442.8 An72
- 46216 MANIER, J. F. *Paratrichella pentodona* n. g., n. sp. entophyte parasite des larves de *Pentodon punctatus* de Vill. *Ann. des Sci. Nat. Zool. et Biol. Anim.* 9: 275-279. 1947, pub. Oct. 1948. 410 An7
- 46217 MARSHALL, SIR G. A. K. New West African Curculionidae (Col.). *Ann. & Mag. Nat. Hist.* (ser. 12) 1: 837-851. Dec. 1948, pub. Mar. 29, 1949. 410 An77  
New species in *Siderodactylus*, *Leptoscapus*, *Heterostylus*, *Bryochaeta*, *Miopis* n. g., *Zantes*, *Apoderus*, *Disodontogenus*, *Gnamptorrhinus* n. g., and *Brachyscapus*.



- 46218 MAULIK, S. Larva of *Echoma decipiens* (Boheman), 1854. (Cassidinae, Chrysomelidae, Coleoptera.). Ann. & Mag. Nat. Hist. (ser. 12) 1: 821-825. Nov. 1948, pub. Mar. 11, 1949. 410 An77
- 46219 MONTEALEGRE, M. R. La broca del café (*Stephanoderes hampei* (Ferr)). Dominican Repub. Comn. de Defensa del Café y del Cacao. B. Inform. 6(40/41): 8-12. Jan./Feb. 1949. 286.3689 D71
- 46220 MÜLLER, H. Was der waldbesitzer diesen frühling gegen die borkenkäfer vorkehren muss. Grüne 77: 244-247. Mar. 4, 1949. 17 Sch9  
Switzerland.
- 46221 NAKANE, T. Description of a new species of the genus *Tritoma* from Japan (Coleoptera, Erotylidae). Mushi 19: 13-14. Oct. 15, 1948. 421 M97
- 46222 NORMAND, H. La chasse aux Coléoptères en Tunisie. Soc. des Sci. Nat. de Tunisie. B. 1: 6-14. 1948 515 So14
- 46223 ODENING. Zu: erkenntnisse und erfahrungen bei der borkenkäferbekämpfung 1948 und ihre auswertung. Forstw., Holzw. 2: 363-364. Dec. 1, 1948. 99.8 F7793  
Germany.
- 46224 OIWA, T. Lethal effect of 1-2-dichloropropene, 2-2-dichloropropane and the mixture of both compounds. (In Japanese.) Botyu-Kagaku 1948(10): 38-41. Ref. Sept. 1948. 421 B65  
English summary.  
Tested against *Sitophilus oryza*.
- 46225 PALLISTER, J. C. Mexican bean beetle [*Epilachna varivestis*]. Nat. Hist. 58: 162-165. Apr. 1949. 500 N483J
- 46226 PARK, O. The genus *Connodontus* (Coleoptera: Pselaphidae). Chicago Acad. Sci. B. 8: 251-265. Ref. Mar. 23, 1949. 500 C43B
- 46227 PIATNITSKIĬ, G. K., and PERSIN, S. A. Agrochemical and chemical control of wireworms. (In Russian.) Vsesoĭuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(5): 28-34. 1948. 20 Ak1  
Experiments on the toxicity of mineral fertilizers and of benzene hexachloride.
- 46228 PILLERI, G. Morphological and systematic studies on the genus *Anisoplia* Serv. (Col. Scarabaeidae). II. A new *Anisoplia* from Syria and considerations on the species *syriaca* Burm. and *segetum* Herbst. (In Italian.) Eos 24: 435-439. Oct. 31, 1948. 421 Eo7  
French summary.
- 46229 POLSTER, H. Die methoden der sommerbekämpfung des fichtenborkenkäfers unter berücksichtigung des knüppeldämpfverfahrens. Forstw., Holzw. 2: 361-363. Dec. 1, 1948. 99.8 F7793  
Germany.
- 46230 RINGS, R. W., and NEISWANDER, R. B. New insecticides for control of plum curculio [*Conotrachelus nenuphar*] and oriental fruit moth [*Grapholitha molesta*]. Hoosier Hort. 31: 19-25. Feb. 1949. 81 In2H
- 46231 SCHREAD, J. C. A major pest [*Popillia japonica*] of turf and its control. Parks & Recreation 32: 215-216. Apr. 1949. 98.8 P23
- 46232 SCHULZ, W. G. DDT dusting—control steps halt vetch weevil [*Bruchus brachialis*] spread. West. Dairy J. 5(6): 64-65. Apr. 1, 1949. 44.8 W524
- 46233 SEIXAS, C. A. Errors and faults in chemical control of the coffee berry borer [*Stephanoderes hampei*]. (In Portuguese.) Rev. Rural Bras. 29(340): 12-20. Feb. 1949. 9.2 B733
- 46234 SIMON. Erwiderung zu den erkenntnissen und erfahrungen bei der borkenkäferbekämpfung 1948. Forstw., Holzw. 2: 330-331. Nov. 1, 1948. 99.8 F7793
- 46235 SMITH, K. G. V. Some locality records for aberrations of *Strangalia maculata* Poda (Col., Cerambycidae). Ent. Monthly Mag. 85: 70. Mar. 1949. 421 En86
- 46236 SPITTLE, R. J. The coleopterous fauna of owls' nests. Ent. Monthly Mag. 85: 78-79. Mar. 1949. 421 En86
- 46237 TELLES, J. DE Q. Exhortation to farmers on the coffee berry borer [*Stephanoderes hampei*]. (In Portuguese.) Rev. Rural Bras. 29(340): 22-24. Feb. 1949. 9.2 B733
- 46238 THEODORIDÈS, J. Un Coléoptère chrysomélide nuisible aux cultures de betterave. B. Hort. (n. s.) 4: 113-114. Apr. 1949. 80 B873  
*Cassida nebulosa*.
- 46239 U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. White-fringed beetle [*Graphognathus*] quarantine and regulations. U. S. Bur. Ent. and Plant Quar. B.E.P.Q.-Q. 72, 18 p. Mar. 11, 1949. 1 F31

- 46240 VILLIERS, A. Les Languriitae et Cladoxenitae de la région du Mont Nimba (Col. Erotylidae). Rev. de Zool. et de Bot. Africaines 41: 128-132. Dec. 15, 1948. 410 R326

Includes new species in *Promecolanguria*, *Barbaropus*, and *Caenolanguria*.

- 46241 WARMBRUNN, K. Kampf dem räusselkäfer in raps und kohl! Württemberg. Wehnl. f. Landw. 116: 92-93. Feb. 19, 1949. 18 W96

- 46242 ZACHER, F. Mitteilungen über diebkäfer (Ptinidae) von wirtschaftlicher bedeutung. Anz. f. Schädlingsk. 21: 97-103. Ref. Oct. 1948. 421 An9

- 46243 ZIEGER, E. Untersuchungen über die auffangwirkung von fangbäumen gegen *Ips typographus*. Forstw., Holzw. 3: 8-10. (Concl.) Ref. Jan. 1, 1949. 99.8 F7793

## DIPTERA

- 46244 ADLER, S. Cutaneous leishmaniasis. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1119-1124. Ref. 1948. 150 In822

Transmitted by *Flebotomus* spp.

- 46245 ARMITAGE, H. M. The oriental fruit fly [*Dacus dorsalis*]. Calif. Citrog. 34: 236, 252-253. Apr. 1949. 80 C125

- 46246 BISHOPP, F. C., LAAKE, E. W., and WELLS, R. W. Cattle grubs or heel flies [*Hypoderma*] with suggestions for their control. U. S. D. A. Farmers' B. 1596, rev., 21 p. Jan. 1949. 1 Ag84F

- 46247 BOSMAN, S. W. Sheep lousefly [*Melophagus ovinus*] causes subtle damage. (In Afrikaans.) Wolboer 1949(18): 6-8. Jan. 1949. 45.8 W83

- 46248 BRITISH WATER POLLUTION RESEARCH LABORATORY. Control of nuisance from flies on percolating filters. Water & Sewage 87(4): 30-32, 38, 40. Apr. 1949. 290.8 C16B

DDT and benzene hexachloride control *Psychoda* spp.

- 46249 BRUCE, W. G. Flies as pests and disease carriers. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1638-1644. 1948. 150 In822

- 46250 BRUGGER, J. New observations on the fruit fly, *Anastrepha fraterculus* (Wied.). (In Portuguese.) Rev. Agron. [Porto Alegre] 12: 174-185. (Concl.) Ref. Oct./Dec. 1948. 9.2 R325

English and German summaries.

So-called cork disease of apple.

- 46251 BUSTAMANTE, M. E. Epidemiología de la leishmaniasis en América. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1125-1134. Ref. 1948. 150 In822

Transmitted by *Flebotomus* spp.

- 46252 BUSVINE, J. R., and KENNEDY, J. S. Experiments with insecticidal smokes for indoor use. Ann. Appl. Biol. 36: 76-85. Mar. 1949. 442.8 An72

Control of *Musca domestica*, *Blatta orientalis*, and *Blattella germanica*.

- 46253 BUXTON, P. A. The problem of tsetse flies (Glossina). U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1630-1637. 1948. 150 In822

- 46254 BUXTON, P. A. Trypanosomiasis in eastern Africa, 1947. London, H. M. Stationery Off., 1948. 44 p. 448 B98

Control of human and animal diseases and the vectors, *Glossina* spp.; possibilities of *Stomoxys* and other flies being vectors.

- 46255 BUZI, C. C. Control of the olive fly [*Dacus oleae*] in Imperia Province. (In Italian.) Olivicoltura 4: 11-13. Jan. 1949. 80 OL42

- 46256 CHADWICK, L. E., and DETHIER, V. G. Stimulation of tarsal receptors of the blowfly [*Phormia regina*] by aliphatic aldehydes and ketones. J. Gen. Physiol. 32: 445-452. Ref. Mar. 20, 1949. 447.8 J822

- 46257 COOK, E. F. The evolution of the head in the larvae of the Diptera. Microentomology 14: 1-57. Ref. Mar. 31, 1949. 421 M58

- 46258 DAVEY, T. H. Trypanosomiasis in British West Africa. London, H. M. Stationery Off., 1948. 15 p. 448 D272

Control methods, including clearing of land to destroy *Glossina* vectors.

- 46259 DAVIES, D. M. Description of *Simulium euryadmiculum*, a new species of blackfly (Simuliidae: Diptera). Canad. Ent. 81: 45-49. Feb. 1949. 421 C16



- 46260 DOBZHANSKY, T. Chromosomal variation in populations of *Drosophila pseudoobscura* which inhabit northern Mexico. *Amer. Nat.* 82: 97-106. Mar./Apr. 1948. 470 Am36
- 46261 EDWARDS, J. Oviposition of *Geosargus bipunctatus* Scop. (Dipt., Stratiomyidae). *Ent. Monthly Mag.* 85: 77. Mar. 1949. 421 En86
- 46262 FAIRCHILD, G. B. A new fly related to *Phlebotomus* [i.e. *Flebotomus*] from Panama (Diptera, Psychodidae). *Ent. Soc. Wash. Proc.* 51: 81-84. Apr. 1949. 420 W27
- Hertigia hertigi* n. g., n. sp.
- 46263 FREIRE-MAIA, N. Balanced polymorphism in *Drosophila montium*. *Evolution* 3: 98. Mar. 1949. 443.8 Ev62
- 46264 FRIEND, A. H. The fruit fly [*Dacus tryoni*] problem and some details of recent control tests. *Agr. Gaz. N. S. Wales* 60: 35-39. Ref. Jan. 1949. 23 N472
- 46265 GARCÍA L., H. Campaña contra el gusano de monte o nuche [*Dermatobia cyaniventris*]. *Soc. Antioqueña de Agr. B. Agr.* 350/351: 3004-3006. Aug./Sept. 1948. 9.4 Sol
- 46266 GOLDSCHMIDT, R. B. Ecotype, ecospecies, and macroevolution. *Experientia* 4: 465-472. Dec. 15, 1948. 475 Ex7
- German summary.
- Drosophila melanogaster* as example.
- 46267 GREENE, C. T. Five new species of *Graptomyza* (Diptera, Syrphidae). *Ent. Soc. Wash. Proc.* 51: 77-80. Apr. 1949. 420 W27
- 46268 HANSENS, E. J. Cattle grubs [*Hypoderma*]. *N. J. Agr. Expt. Sta. C.* 522, 4 p. Jan. 1949. 100 N46S
- 46269 HARDY, D. E. The North American *Chrysopilus* (Rhagionidae—Diptera). *Amer. Midland Nat.* 41: 143-167. Jan. 1949. 410 M58
- 46270 HENDECOURT, R. D'. Les pieges vivants dans la lutte contre la tsétsé. *Rev. Colon. Belge* 4: 175. Mar. 15, 1949. 110 R324
- An account of tests with DDT in the Belgian Congo.
- 46271 HERTIG, M. Sandflies of the genus *Phlebotomus* [i.e. *Flebotomus*]—a review of their habits, disease relationships, and control. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1609-1618. Ref. 1948. 150 In822*
- 46272 HOOF, L. VAN. Trypanosomiasis humaine africaine: reflexions sur la lutte chimique contre l'endemie. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1145-1158. 1948. 150 In822*
- Includes use of newer insecticides for control of vector, *Glossina* spp.
- 46273 HOWELL, W. Non-toxic repellent for horseflies. *Agr. Chem.* 4(3): 63. Mar. 1949. 381 Ag8
- Tabanus* spp.
- 46274 KNOWLTON, G. F. Insects of Utah; some Western *Tabanidae*. *Utah. Agr. Expt. Sta. Mimeog. Ser.* 353, 6 p. Mar. 1949. 100 Ut1Mi
- 46275 LA FACE, L. On some features of the pretarsus in *Musca domestica*. (In Italian.) *Riv. di Parassitol.* 9: 27-30. Mar. 1948. 436.8 R52
- French and English summaries.
- 46276 LE CALVEZ, J., and CERTAIN, P. Le caryotype de *Drosophila spinifemora*. *Paris. Acad. des Sci. Compt. Rend.* 228: 774-776. Feb. 28, 1949. 505 P21
- 46277 LECLERCQ, M. Les mouches *Bibionides* et leurs dégâts. *B. Hort. (n. s.)* 4: 82. Mar. 1, 1949. 80 B873
- 46278 LINDNER, E. Neotropische Stratiomyiden des Britischen Museums in London. *Ann. & Mag. Nat. Hist. (ser. 12)* 1: 782-821. Nov. 1948, pub. Mar. 11, 1949. 410 An77
- New species in *Xenomorpha*, *Arthropeina* n. g., *Subulonia*, *Neochorisops*, *Actinomyia* n. g., *Hoplacantha*, *Antisops*, *Neoberis* n. g., *Heptozus* n. g., *Pezodontina* n. g., *Rhaphiocera*, *Pedicella*, *Plecticus*, *Geosargus*, *Coenosargus*, *Aloiphina* n. g., *Acrochaeta*, *Geosargus*, *Merosargus*, and *Hedriodiscus*.
- 46279 LINDNER, E. Neotropische Stratiomyiden des Britischen Museums in London. II. *Ann. & Mag. Nat. Hist. (ser. 12)* 1: 851-891. Dec. 1948, pub. Mar. 29, 1949. 410 An77
- New species and forms in *Hedriodiscina*, *Eulalia*, *Cyphomyia*, *Chloromelas*, *Hermetia*, *Chaetohermetia*, *Progrypomyia* n. g., *Adoxomyia*, *Abavus*, *Aochletus*, *Panacris*, *Brachyodina* n. g., *Pyelomyia*, *Chlamydonotum* n. g., *Myiocavia* n. g., *Diastrophthalmus* n. g., *Borboridea*, *Ecchaetomyia* n. g., and *Strobilaspis* n. g.
- 46280 MAITLAND, W. G. Warble fly [*Hypoderma*] can be reduced. *Gt. Brit. Min. Agr. Agriculture* 55: 541-543. Mar. 1949. 10 G79J
- 46281 MALOGOLOWKIN, C. On the genitalia of *Drosophilidae* (Diptera): II. *Drosophila ananassae*. (In Portuguese.) *Summa Bras. Biol.* 1: 429-457. May 1948. 442.9 F96
- English summary.
- 46282 MAZZOTTI, L. *Oncocercosis* en México. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 948-956. Ref. 1948. 150 In822*
- Transmitted by *Simulium ochraceum*, *S. callidum*, and *S. metallicum*.
- 46283 PALAY, S. L., and CLAUDE, A. An electron microscope study of salivary gland chromosomes by the replica method. *J. Expt. Med.* 89: 431-438. Apr. 1, 1949. 448.8 J822
- Study of preparations of *Drosophila* larvae.
- 46284 PALMER, D. F. Fight against oriental fruit fly [*Dacus dorsalis*] shaping up. *Calif. Farmer, North. Ed.* 190: 218-219. Mar. 12, 1949. 6 C126
- 46285 PRADA, J. DE. Avance sobre leishmaniosis. *Rev. de Sanidad Vet.* 3: 895-899. Dec. 15, 1948. 41.8 R3222
- Leishmaniasis in dog and man, and *Flebotomus* as vector, in Spain.
- 46286 SAVEL'EV, D. V. Kozhnyy ovod [*Skin gad-fly* (*Hypoderma*)]. *Moskva, Sel'khozgiz*, 1948. 61 p. 428 Sa9
- 46287 SCHMIDT, H. W. Moderne fliegenbekämpfung. *Saat u. Ernte* 3(6): 10. June 1948. 18 Sa12
- 46288 SCHUYTBROECK, P. VAN. *Sphaerocerinae* (Diptera Acalyptratae). *Inst. des Parcs Nationaux du Congo Belge. Exploration du Parc Natl. Albert* 52, 43 p. Bruxelles, 1948. 411.3 K83
- Includes new species in *Sphaerocera* and *Borborus*.
- 46289 SEN GUPTA, P. C. Researches on kala-azar in India, 1938-48. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1135-1144. Ref. 1948. 150 In822*
- Flebotomus* argentipes is probably vector.
- 46290 SMITH, H. R. Grubs [*Hypoderma bovis*] cause severe carcass loss, too. *Mont. Stockgrower* 21(3): 16. Mar. 15, 1949. 49 M76
- 46291 SPIETH, H. T. Sexual behavior and isolation in *Drosophila*. II. The interspecific mating behavior of species of the willistoni group. *Evolution* 3: 67-81. Ref. Mar. 1949. 443.8 Ev62
- 46292 STURTEVANT, A. H. The evolution and function of genes. *Sci. Prog. [New Haven]* 6: 250-265. 1949. 330 B16
- Illustrated by *Drosophila*.
- 46293 TAYLOR, R. H. Legislative action sought to aid in blocking entry of oriental fruit fly [*Dacus dorsalis*]. *Sunsweet Standard* 32(11): 9. Apr. 1949. 286.83 Su7
- 46294 THRAPP, D. L. S O S for African wildlife. *Nat. Hist.* 58: 104-111, 141-142. Mar. 1949. 500 N483J
- Economic development and tsetse fly (*Glossina* spp.) control programs threatening game population.
- 46295 TOLEDO, A. A. DE. Notes on the biology and control of bots [*Dermatobia hominis*]. (In Portuguese.) *Biológico* 14: 264-267. Nov. 1948. 442.8 B529
- 46296 TREVENARD, P. Note préliminaire concernant l'étude radiographique de la métamorphose de la mouche et l'application de cette méthode de recherche à la pathologie chez cet insecte. *Paris. Acad. des Sci. Compt. Rend.* 228: 863-864. Mar. 7, 1949. 505 P21
- 46297 VARGAS, L. Nota sobre biología y control de los simúlidos. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1619-1629. 1948. 150 In822*
- 46298 VARGAS, L. Notas sobre la oncocerciasis. VII-VIII. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9: 309-320. Dec. 1948. 449.9 M572
- VII. Infección experimental de *Simulium* (Lanea) mangabeirai con *Onchocerca volvulus*, p. 309-311. VIII. Lineamientos entomológicos sobre el control de los Simúlidos, p. 313-320.
- English summaries.
- 46299 VARGAS, L., and DÍAZ NÁJERA, A. Nuevas especies de Simúlidos de México y consideraciones diversas sobre especies ya descritas. *Mex. Inst. de Salubridad y Enferm. Trop. Rev.* 9: 321-369. Dec. 1948. 449.9 M572
- English summary.
- New species in *Cnephia* and *Simulium*.



- 46300 WAKELY, S. *Oncodes pallipes*, Latreille (Dipt.). Ent. Rec. & J. Variation 61: 28. Mar. 1949. 421 En89
- 46301 WATT, J. Fly control and the acute diarrheal diseases. Ofic. Sanit. Panamer. B. 28: 249-258. Mar. 1949. 449.9 P192B  
Spanish summary.
- 46302 WHITE, C. M., and SCHOOF, H. F. Filth and flies [*Musca domestica*]; how you can help in the war on a dangerous pest. Better Health 22: 101. Apr. 1949. 449.8 B46
- 46303 WHITTEN, L. K. Blowfly strike in sheep. New Zeal. J. Agr. 78: 17, 19-22. Jan. 15, 1949. 23 N48J

## Culicidae

- 46304 ADAMS, C. V. Research on Muharraq Island (Persian Gulf). Turtox News 27: 42-45. Feb. 1949. 442.8 T86  
Experiences while making mosquito survey.
- 46305 AFRIDI, M. K. Mosquito problems in the Far East. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1588-1597. Ref. 1948. 150 In822  
Control of *Anopheles* spp., vectors of malaria.
- 46306 ALVARADO, C. A. La lucha antimosquito en la América tropical. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1577-1587. Ref. 1948. 150 In822
- 46307 BRADLEY, G. H. Mosquito control in the United States. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1598-1608. Ref. 1948. 150 In822
- 46308 CALLOT, J. La vie hivernale de *Culex autogenicus* Roubaud. Feuille des Nat. (n. s.) 3: 79-80. June/July 1948. 410 F432
- 46309 COHER, E. I. A study of the female genitalia of Culicidae: with particular reference to characters of generic value. Ent. Amer. 28: 75-112. Ref. July 1948, pub. Mar. 29, 1949. 420 B792
- 46310 DESCHIENS, R., and PICK, F. Le choix des surfaces de ponte par *Aedes aegypti* (*Stegomyia fasciata*) dans des conditions expérimentales. Acta Trop. 6: 1-12. 1949. 475 Ac8  
German and English summaries.
- 46311 ENTE REGIONALE PER LA LOTTA ANTI-ANOFELICA IN SARDEGNA. Instructions for the anti-larval district chief and deputy district chief. Cagliari, 1948. 12 p. 428 En81a
- 46312 ENTE REGIONALE PER LA LOTTA ANTI-ANOFELICA IN SARDEGNA. Istruzioni per il segnalatore alate [Instructions for the mosquito demonstrator]. Sassari, Arcivescovile, 1948. 18 p. 428 En81r
- 46313 ENTE REGIONALE PER LA LOTTA ANTI-ANOFELICA IN SARDEGNA. 10 domande sull'E.R.L.A.A.S. Cagliari? 1948? 4 p. 428 En8De
- 46314 FLUNO, J. A., and others. Comparative toxicity of DDT and some of the newer insecticides to adults of salt-marsh mosquitoes. Mosquito News 9: 15-18. Mar. 1949. 421 M85  
E. S. Raun, C. C. Deonier, and F. Faulkner, joint authors.
- Benzene hexachloride, chlordane, and toxaphene tested against *Aedes taeniorhynchus*, *A. sollicitans*, and *Psorophora fonninis*.
- 46315 GALLIARD, H., and HUARD, P. Recherches sur la filariose en Indochine du nord. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 957-965. 1948. 150 In822  
*Wuchereria bancrofti* and *W. malayi* transmitted by *Culex fatigans*, *Mansonioides indiana*, *Neocellia maculata*, *Pseudomyzomyia vaga*, *Anopheles hyrcanus*, and possibly *Aedes* spp.
- 46316 GEIB, A. F., and SMITH, G. F. A preliminary report on the use of DDT emulsible concentrate by a modified drip method for *Aedes* control. Mosquito News 9: 10-13. Mar. 1949. 421 M85
- 46317 HURLBUT, H. S., and THOMAS, J. I. Potential vectors of Japanese encephalitis in the Caroline Islands. Amer. J. Trop. Med. 29: 215-217. Mar. 1949. 448.8 Am33  
Tests with *Culex quinquefasciatus* and *C. annulirostris*.
- 46318 MARTIN, E. J. Surface baffles for mosquito control. Mosquito News 9: 19. Mar. 1949. 421 M85
- 46319 MISSIROLI, A. *Anopheles* control in the Mediterranean area. U. S. Dept. State. Internatl. & Conf. Ser. I. Gen. 5: 1566-1576. 1948. 150 In822

46320 MOSNA, E. DDT-resistant *Culex pipiens* autogenicus and their control with chlordane and benzene hexachloride. (In Italian.) Riv. di Parassitol. 9: 19-25. Mar. 1948. 436.8 R52

French and English summaries.

46321 MUNGAVIN, J. M. Recent advances in malaria control. Business Week [Madras] Planting Sup. 1948: 17-18. Aug. 21, 1948. 281.182 B96  
Includes use of insecticides.

46322 NATVIG, L. R. Contributions to the knowledge of the Danish and Fennoscandian mosquitoes; Culicini. Norsk Ent. Tidsskr. Sup. I, 567 p. Ref. 1948. 421 N812

46323 OBRECHT, C. B. Notes on the distribution of Michigan mosquitoes (Diptera, Nematocera). Amer. Midland Nat. 41: 168-173. Jan. 1949. 410 M58

46324 OWEN, R. W. Ground to air signals used in the spraying of insecticides for mosquito abatement district. Mosquito News 9: 8-9. Mar. 1949. 421 M85

46325 RIEL, J. VAN. Aperçu sur la lutte antimalarienne au Venezuela. Inst. Roy. Colon. Belge. B. des Seances 19: 564-570. 1948. 504 B836  
Includes mosquito control.

46326 STAGE, H. H., and SOLLERS, H. References to literature of interest to mosquito control workers and malariologists. Mosquito News 9: 28-33. Mar. 1949. 421 M85

46327 STIERLI, H., and SCHMITZ, W. R. The operation and physical evaluation of routine applications of DDT larvicides by airplane. Mosquito News 9: 1-7. Mar. 1949. 421 M85

46328 SWELLENGREBEL, N. H. The biology and ecology of mosquitoes. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1563-1565. 1948. 150 In822

46329 TUBANGUI, M. A. Schistosomiasis japonica and other helminthic diseases in the Philippines. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1034-1044. Ref. 1948. 150 In822

Includes filariasis (*Wuchereria bancrofti*) transmitted by *Culex quinquefasciatus*.

46330 VEROLINI, F. On the mechanics of the action of DDT on culicine larvae. (In Italian.) Riv. di Parassitol. 9: 31-37. Ref. Mar. 1948. 436.8 R52  
French and English summaries.

## HEMIPTERA (HETEROPTERA AND HOMOPTERA)

- 46331 BARON, C. Pucerons et acariens. Fruit Belge 17: 33-40. Mar. 1949. 80 F9493
- 46332 BRANDT, H. Die verbreitung der San José-childlaus [*Aspidiotus perniciosus*] in Italien. Anz. f. Schädlingsk. 21: 103-107. Oct. 1948. 421 An9
- 46333 BRENY, R. Le Lecanium du cornouiller, *Eulecanium corni* Bouché. B. Hort. (n. s.) 4: 8-11. Jan. 1, 1949. 80 B873
- 46334 BROADBENT, L. Factors affecting the activity of alatae of the aphids *Myzus persicae* (Sulzer) and *Brevicoryne brassicae* (L.). Ann. Appl. Biol. 36: 40-62. Ref. Mar. 1949. 442.8 An72
- 46335 CAMERON, A. E. Mildura scale control. Citrus News 25: 3. Jan. 27, 1949. 80 C494  
*Aonidiella aurantii* on citrus of New Zealand.
- 46336 CANDURA, G., and RUSSO, G. We emphasize the winter treatment of fruit plants. (In Italian.) Gior. di Agr. 59: 94. Mar. 20, 1949. 16 It1G  
Control of Coccidae.
- 46337 CASTEJÓN, M. G. DE. Animales dañinos a los árboles. Ceres [Valladolid] 14(152): 9-10. Feb. 1, 1949. 15 C33  
*Eriosoma lanigerum*.
- 46338 DIAS, E., and LARANJA, F. S. Chagas' disease and its control. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1159-1170. Ref. 1948. 150 In822  
Chief vectors are species of *Triatoma*, *Panstrongylus*, and *Rhodnius*.
- 46339 DITMAN, L. P. Control of the pea aphid [*Macrosiphum pisi*] and bean insects. Pea B. 10, 2 p. 1948. 280.39 T73P
- 46340 DOUTT, R. L., and HAGEN, K. S. Biological control of mealybugs, 1948. Pear Growers League Ann. 1949: 47. 286.3939 P31  
Control of *Pseudococcus maritimus* by *Chrysopa californica*.
- 46341 DUDLEY, J. E., JR. Suggestions for better control of pea aphid [*Macrosiphum pisi*]. Food Packer 30(4): 40, 42-43. Apr. 1949. 286.83 C165



- 46342 ERNOULD, L. La lutte contre les larves du capsidé: *Calocoris norvegicus* Gm. sur betterave. Inst. Belge pour l'Amélior. de la Betterave. P. 16: 325-327. Nov./Dec. 1948. 66.9 In7  
English and Flemish summaries.
- 46343 FIDLER, J. H. A three years' survey of potato aphids in north-east Yorkshire. Ann. Appl. Biol. 36: 63-75. Ref. Mar. 1949. 442.8 An72  
Chiefly *Myzus persicae*; also *Macrosiphum solanifolii*, *Aphis rhamni*, *Myzus pseudosolani*, *M. ornatus*, and *A. fabae*.
- 46344 FISHER, F. E., THOMPSON, W. L., and GRIFFITHS, J. T., JR. Progress report on the fungus diseases of scale insects attacking citrus in Florida. Fla. Ent. 32: 1, 3-11. Mar. 1949. 420 F662
- 46345 FUKUTA, J., and YOSHIDA, I. The effect of mixture of lime sulphur and zinc sulphate on *Prontaspis yanonensis*, Kuwana. (In Japanese.) Hort. Assoc. Japan. J. 17: 43-53, 166-175. Mar.-Dec. 1948. 87 H78
- 46346 HOLZ, W. Gefahren für unseren obstbau—die San José-schildlaus [*Aspidiotus perniciosus*]. Landwirtsch. Bl. Weser-Ems 96: 180-181. Mar. 17, 1949. 18 L2345
- 46347 HOLZ, W. Versuche zur wanzenkämpfung mit dem Bayer-präparat E605. Anz. f. Schädlingsk. 21: 138-139. Dec. 1948. 421 An9  
Controlling *Cimex lectularius* with parathion.
- 46348 KAWECKI, Z. Some Coccidae from Poland. (Abs.) Akad. Umiejętności. Wydz. Mat.-Przyrodniczy. Compt. Rend. 1948(2/3): 10. Feb./Mar. 1948. 512 K85C
- 46349 KLOSTERMEYER, E. C. Hop aphid [*Phorodon humuli*] insurance. Hopper 5(11): 5-6. Feb. 1949. 70.8 H77
- 46350 KOEHLER, W. *Troilus luridus* F. (Hem. — Het.). (In Polish.) Inst. Badawczy Leśn. Ser. A, Rozprawy i Sprawozdania 51, 80 p. Ref. 1948. 99.9 W26  
English summary.
- 46351 LENT, H. *Triatoma* and Chagas' disease. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1690-1701. Ref. 1948. 150 In822
- 46352 MAGISTRETTI, G. La lucha contra los coccidos parasitos de los olivares mendocinos. Experimenta 1: 38-47. Ref. Dec. 1948. 475 Ex72  
English, French, and Italian summaries.
- 46353 MANSTER, W. F. Can the tobacco peach aphid [*Myzus persicae*] be killed with modern Dixie farm antidotes? Tobacco [New York] 128(13): 95, 153. Mar. 31, 1949. 286.89 T552
- 46354 NEPVEU, P., and VASSEUR, R. Contaminabilité de la flore horticole française par le pou de San José. (*Quadraspidotus* [i. e. *Aspidiotus*] *perniciosus* Comst.). Rev. Tech. de la Protect. des Vég. 1: 229-269. 1948. 464.9 F84R
- 46355 NEW SOUTH WALES. DEPT. OF AGRICULTURE. ENTOMOLOGICAL BR. Insect pests. Agr. Gaz. N. S. Wales 60: 41-44. Jan. 1949. 23 N472  
*Ceroptastes destructor*, *Aonidiella aurantii*, and *Vasates destructor*.
- 46356 PEREDEL'SKIĬ, A. A. River valleys as an area and floods as a factor of the evolutionary process. (In Russian.) Akad. Nauk SSSR. Izv. Ser. Biol. 1948: 674-683. Ref. Nov./Dec. 1948. 511 Sa2B  
Study of the behavior of Pentatomidae.
- 46357 POISSON, R. Sur quelques Naucoridae africains des collections du Musée du Congo (Hémipt. — Hétero.). Rev. de Zool. et de Bot. Africaines 41: 202-221. Dec. 15, 1948. 410 R326  
Includes new species and forms in *Macrocoris* and *Neomacrocoris*.
- 46358 RENNERT, F. Winterspritzung dringendst! Achtung! Grosskampf gegen die San-José-schildlaus [*Aspidiotus perniciosus*]. Österr. Bauernbündler 5(9): 4. Feb. 26, 1949. 19 Os7
- 46359 ROUSSY, L. Pucerons et miellats. Gaz. Apic. 1949: 37. Feb. 1949. 424.8 G25
- 46360 SCHELLENBERG, A. Die reblausbekämpfung im Kanton Zürich von 1886 bis 1948. Schweiz. Z. f. Obst u. Weinbau 58: 145-148. (To be cont.) Apr. 9, 1949. 80 Sch9  
*Phylloxera vastatrix*.
- 46361 SCHOEL. Verstärkte bekämpfung der San José-schildlaus [*Aspidiotus perniciosus*]. Gartenjahr 4: 12. Jan. 1949. 80 G1932
- 46362 SCHOUTEDEN, H. Les *Ceratocoris* du Congo Belge (Hémipt. Coptosomidae). Rev. de Zool. et de Bot. Africaines 41: 122-125. Dec. 15, 1948. 410 R326
- 46363 SOUSA, H. D. DE. The "Cigarrinha" [*Tomaspis liturata*] in the cane fields of Sergipe, Alagoas, Pernambuco and Bahia. (In Portuguese.) Brasil Açucareiro 32: 446-454. Nov. 1948. 65.8 B73
- 46364 THIEM, H. Betrachtungen zur Lage und Bekämpfung der San José-Schildlaus [*Aspidiotus perniciosus*] im südwestdeutschen befallsgebiet. Ztschr. f. Pflanzenkrankh. 55: 17-29. Ref. Jan. 1948. 464.8 Z3
- 46365 TORRES, B. A. Alotipo hembra de *Tettigotoma maculata* Torres (Homoptera — Cicadidae). La Plata. Mus. Notas. Zool. 13: 179-180. 1948. 410 L31
- 46366 VERDCOURT, B. Note on *Stollia fabricii* Kirkaldy (Hem., Pentatomidae). Ent. Monthly Mag. 85: 79. Mar. 1949. 421 En86
- 46367 VILLIERS, A. Note sur divers Hémiptères Hénicocéphalides de l'Ouest Africain. Paris Mus. d'Hist. Nat. (ser. 2) 20: 349-351. June 1948. 410.9 P213  
Includes new species in *Hoplitocoris* and *Didymocephalus*.

## HYMENOPTERA

- 46368 BALLART, C. P. Destrucción de hormigueros Campo y Suelo Argentino 32(387): 69-70. Jan. 1949. 9 C15
- 46369 BROEKHUYSEN, G. J. The brown house ant (*Pheidole megacephala*, Fabr.). Union So. Africa. Dept. Agr. B. 266, 40 p. Ref. Johannesburg, 1948. 24 So84P
- 46370 DONISTHORPE, H. Lizards in ants' [*Acanthomyops flavus*] nests. Ent. Rec. & J. Variation 61: 28. Mar. 1949. 421 En89
- 46371 FRANKENBERG, G. VON. Ortsbewegung mittels "künstlicher muskeln." Beobachtungen an der Larve der rosen-gespinstwespe *Pamphilius*, Natur u. Volk 79: 26-34. Feb. 1, 1949. 509 F856
- 46372 GAHAN, A. B. A new mymarid [*Erythmelus helopeltidis*] parasitic in eggs of *Helopeltis cinchonae* Mann (Hymenoptera, Mymaridae). Ent. Soc. Wash. Proc. 51: 75-76. Apr. 1949. 420 W27
- 46373 GAIRAUD, R., and JOLY, E. Biologie de l'hoplocampe des poires (*Hoplocampa brevis*). Rev. Hort. [Paris] 121: 22-25. Jan./Feb. 1949. 80 R32
- 46374 GILBERT, L. The green tree ant [*Oecophylla smaragdina*] in science and history. Victorian Nat. 65: 196-199. Dec. 1948. 410 V66
- 46375 HEROLD, E. Die biene als insekt. Imkerfreund 4: 27-29. Feb. 1949. 424.8 Im43
- 46376 KROMBEIN, K. V. Studies in the Tiphidae. VII. The Madagascan species. (Hymenoptera Aculeata). Ent. Soc. Wash. Proc. 51: 45-73. Apr. 1949. 420 W27  
Includes new species in *Anthobosca*, *Tiphia*, *Meria*, *Mesa*, and *Methocha*.
- 46377 MAO, Y. T. The species of ichneumon-flies of the genus *Cardiophiles* occurring in America north of Mexico. U. S. Natl. Mus. Proc. 99: 229-266. 1949. 500 Sm65P
- 46378 MARUYAMA, K. Habits of a Diptera-hunter, *Mellinus obscurus tristis* Pérez (Hymenoptera). Mushi 19: 7-11. Oct. 15, 1948. 421 M97
- 46379 OGLOBLIN, A. Descripción de dos géneros nuevos de Paracolletini argentinos (Colletidae, Apoidea, Hymenoptera). La Plata. Mus. Notas. Zool. 13: 165-177. 1948. 410 L31  
*Tetraglossula*; *Hexanthes*.
- 46380 OHSAWA, W., and NAGASAWA, S. The statistico-physiological analysis of the lethal action of water, kerosene, and pyrethrin against the worker of *Crematogaster brunnea matsumurai* Forel. Studies on the vital resistibility of ants. I. (In Japanese.) Botyu-Kagaku 1948(10): 42-59. Ref. Sept. 1948. 421 B65  
English summary.
- 46381 OTAMENDI, J. C. Algunos aspectos interesantes de la biología de las atinas. IDIA; Inform. de Invest. Agr. 2(15): 16-17. Mar. 1949. 9 Id3  
*Atta*.
- 46382 PACKARD, C. M. Status of the wheat stem sawfly problem [*Cephus cinctus*]. Grain & Feed Rev. 38 (8): 18, 63. Apr. 1949. 280.28 C78
- 46383 RAYMENT, T. Some bees [Apoidea] from the Victorian Alps. Victorian Nat. 65: 201-202. Dec. 1948. 410 V66
- 46384 RYKOV, N. A. On the ichneumon fly, *Gambrus cimicis*. (In Russian.) Priroda 37(12): 60-62. Dec. 1948. 410 P933  
Parasitic on *Cimex* spp.



46385 SANTIS, L. DE. Un caso interesante de foresia. La Plata. Mus. Notas. Zool. 13: 129-135. 1948. 410 L31

Grassator viator n. g., n. sp., (Hym. Eulophidae) transported by Naupactus xanthographus (Col. Curculionidae).

46386 SMITH, G. A. The leaf-cutter bee [Megachile sp.?]—photographic story. Frontiers 13: 112-113. Apr. 1949. 410 F92

46387 STELFOX, A. W., and GRAHAM, M. W. R. DE V. Notes on the genus Aspilota (Hym., Braconidae). Ent. Monthly Mag. 85: 71-74. Mar. 1949. 421 En86

46388 STUMPER, R. L'illusion de l'altruisme chez les fourmis. Nature [Paris] 3166: 43-45. Feb. 1949. 473 N21

46389 ULLYETT, G. C. Distribution of progeny by Chelonus texanus Cress. (Hymenoptera: Braconidae). Canad. Ent. 81: 25-44. Feb. 1949. 421 C16

Parasite of Ephestia kühniella.

46390 VESEY-FITZGERALD, B. Ants in particular. Nature Lover 6: 54-56. Feb. 1949. 410 N218

Great Britain.

46391 WATANABE, C. Evanidae, Gasteruptionidae and Aphidiidae of Shansi, China (Hymenoptera). Mushi 19: 31-32. Oct. 15, 1948. 421 M97

46392 WIDIEZ, F. L'oplocampe du poirier [Hopllocampa brevis?]. Vaucluse Agr. 5(86): 12. Mar. 1, 1949. 14 V26

46393 WOOLLATT, L. H. Records of sawflies (Hym., Tenthredinidae) from Lundy Island. Ent. Monthly Mag. 85: 80. Mar. 1949. 421 En86

46394 ZIEBACH, B. Fire ants [Solenopsis saevissima richteri] threatening wide new areas of Dixie; pests will cover much of USA unless stopped. Livestock Weekly 3(18): 1, 11. Mar. 10, 1949. 49 L753

See also Apiculture and Apis mellifera.

#### LEPIDOPTERA

46395 ACREE, F. Some chemical treatments of the gypsy moth [Porthetria dispar] sex attractants. (Abs.) Ent. Soc. Wash. Proc. 51: 89-90. Apr. 1949. 420 W27

46396 AGENJO, R. Nuevas subespecies burgalesas de las Anthrocera rhadamanthus (Esp.), fausta (L.) y trifolii (Esp.). (Lep. Anthroc.). Eos 24: 391-401. Ref. Oct. 31, 1948. 421 Eo7

46397 BAKER, W. A. DDT—how to use it to control the European corn borer [Pyrausta nubilalis]. Farm Equip. Retailing 7(4): 24, 28. Apr. 1949. 58.8 F2292

46398 BATCHELDER, C. H. European corn borer [Pyrausta nubilalis] location on the corn plant as related to insecticidal control. U. S. D. A. Tech. B. 976, 20 p. Ref. Mar. 1949. 1 Ag84Te

46399 BERGAMIN, J. The sugarcane borer [Diatraea saccharalis]. (In Portuguese.) Brasil Açucareiro 32: 493-498, 595-612. Ref. Nov./Dec. 1948. 65.8 B73

English summary.

46400 BERNARDI, G., HERBULOT, C., and PICARD, J. Liste des Grypocères et Rhopalocères de la faune française conforme aux règles internationales de la nomenclature. Rev. Franç. de Lépidoptérologie 11: 377-384. (To be cont.) Oct./Nov. 1948. 421 P192

46401 BERTHET, H. Orodemnias cervini Fallou dans les Alpes françaises du Dauphiné ssp. (ou forme individuelle?) scrinienensis nova. Rev. Franç. de Lépidoptérologie 11: 369-376. Oct./Nov. 1948. 421 P192

46402 BISHARA, I. The effect of bollworms [Heliothis armigera] on the quality and grades of cotton. Egypt. Cotton Gaz. 6: 49-64. Jan. 1949. 72.8 Eg9

46403 BLESZYŃSKI, S. Matériaux à la connaissance de la faune des Lépidoptères des Monts Tatras en Pologne. (Abs.) Akad. Umiejtności. Wyd. Mat.-Przyrodniczy. Compt. Rend. 1948(2/3): 10-11. Feb./Mar. 1948. 512 K85C

46404 BOURSIN, C. À propos de Cucullia lactucae Esper. Rev. Franç. de Lépidoptérologie 11: 398-399. Oct./Nov. 1948. 421 P192

46405 CHANCOGNE, M., GAUMONT, R., and GRISON, P. Différences de sensibilité de divers stades embryonnaires de la cheimatomie (Operophtera brumata L., Lépidoptère géométridé), à l'action du dinitrocrésylate de sodium. Paris. Acad. des Sci. Compt. Rend. 228: 776-777. Feb. 28, 1949. 505 P21

46406 CHIAROMONTE, A. The problem of Sesamia [S. cretica] in Italian Somaliland. (In Italian.) Georgofili [Firenze] (ser. 6) 12: 82-89. Jan./June 1948. 507 F51

46407 CRUMB, S. E. Tobacco cutworms and their control. U. S. D. A. Farmers' B. 1494, slightly rev., 14 p. Jan. 1949. 1 Ag84F

46408 DELATTRE, R. Note sur Crotalaria, plante-hôte de Platyedra [i.e. Pectinophora] gossypiella. Coton et Fibres Trop. 3: 57-58. Aug. 1948. 73.8 C82

46409 DEMPSEY, P. W. Two serious corn pests [Heliothis armigera and Pyrausta nubilalis]. New England Homestead 122(5): 21, 23, 28. Mar. 12, 1949. 6 N442

46410 DIAKONOFF, A. Microlepidoptera from Indo-China and Japan. 2. Paris Mus. d'Hist. Nat. (ser. 2) 20: 343-348. June 1948. 410.9 P213

Includes new species in Syndemis and Eucosma.

46411 DUGAS, A. L., SMITH, C. E., and CONCIENNE, E. J. Sugarcane insect investigation 1948. Sugar B. 27: 209-211. Apr. 15, 1949. 65.9 Am32

Use of different insecticides for Diatraea saccharalis control.

46412 DZIURZYŃSKI, A. Materials for the morphology and biology of the butterfly Antispila stachjanella n. sp. I-III. (Abs.) Akad. Umiejtności. Wyd. Mat.-Przyrodniczy. Compt. Rend. 1948(2/3): 10. Feb./Mar. 1948. 512 K85C

46413 FEARNEHOUGH, T. D. Variation in reared Heodes (Lycaena) phlaeas. Ent. Rec. & J. Variation 61: 25-27. Mar. 1949. 421 En89

46414 FORBES, W. T. M. Lepidoptera of New York and neighboring States. II. Geometridae, Sphingidae, Notodontidae, Lymantriidae. N. Y. (Cornell) Agr. Expt. Sta. Mem. 274, 263 p. June 1948. 100 N48C

46415 FRANCLEMONT, J. G. Synonymical notes relating to Menopsimus caducus Dyar (Lepidoptera, Phalaenidae). Ent. Soc. Wash. Proc. 51: 74-75. Apr. 1949. 420 W27

Correct name: Hypenodes caducus (Dyar).

46416 FRAZIER, N. W., and BARNES, D. F. Notes on the control of the grape leaf folder [Desmia funeralis]. Calif. Fruit & Grape Grower 3(3): 14. Mar. 1949. 95.8 G762

46417 GILCHRIST, A. The earworm [Heliothis armigera] cuts corn yield! Iowa Agriculturist 47(8): 13. Mar. 1949. 6 Io9

46418 GOOT, P. VAN DER. The life-history of the yellow rice borer (Schoenobius bipunctifer Wlk.) (In Dutch.) East Indies (Dutch) Alg. Proefsta. v. Landb. Meded. 79, 12 p. Ref. 1948. 109.5 Ea73

English summary.

Also in Landbouw 20: 495-504. Nov./Dec. 1948. 22.5 L23

46419 GOOT, P. VAN DER. Twelve years of rice borer [Scirpophaga innotata] control by regulating the time of sowing in W. Brebes (Central Java). (In Dutch.) East Indies (Dutch) Alg. Proefsta. v. Landb. Meded. 78, 32 p. 1948. 109.5 Ea73

English summary.

Also in Landbouw 20: 465-494. Nov./Dec. 1948. 22.5 L23

46420 GOULD, E. New insecticides: roller [Argyrotaenia velutinana] and mite control. Mountaineer Grower 19(176): 4-5, 7-9, 11. Mar. 1949. 80 M86

46421 HARRISON, J. W. H. The foodplants of Cerura vinula L. (Lep., Notodontidae) on the Isle of Killegray. Ent. Monthly Mag. 85: 63. Mar. 1949. 421 En86

46422 HELLMAN, E. A. Beobachtungen über die grossschmetterlingsfauna der nächsten umgebung von Mariehamn auf Åland in den jahren 1941-1943, mit besonderer berücksichtigung der klimatischen umstände in ihrer einwirkung auf das auftreten und die einwanderung der arten nach Åland. Acta Ent. Fenn. 6, 92 p. Helsinki, 1948. 421 Ac8

46423 HUANG, C. Experiments with the new insecticides in control of the rice borer Schoenobius incertelus Wk. (In Chinese.) Ent. News [Nanking] 2: 50. Oct. 1948. 421 En816

English summary.

46424 JOHNSON, P. C. Natural decline of tussock moth [Hemerocampa pseudotsugata] infestations in the Inland Empire. (Abs.) Northwest Sci. 22: 16. Feb. 1948. 470 N81

46425 KOCH, M. Las Zygaena españolas del Instituto de Entomología de Madrid (Lep. Zygaen.). II. Eos 24: 319-333. Ref. Oct. 31, 1948. 421 Eo7

46426 KOZHANCHIKOV, I. V. Hibernation and diapause of lepidopterous insects of the family Orgyidae [i. e. Lymantriidae]. (In Russian.) Akad. Nauk SSSR. Izv. Ser. Biol. 1948: 653-673. Ref. Nov./Dec. 1948. 511 Sa2B



- 46427 KURIR, A. Fichtennestwickler (*Epiblema tedella* Cl.) in Steiermark und Kärnten. Allg. Forst- u. Holzwirtschaft. Ztg. 60: 47-48. Ref. Mar. 1949. 99.8 AL53
- 46428 KUTTNER, J. Schmetterlings-invasion im hochalpinen winter. Orion 4: 126. Feb. 15, 1949. 474 Or4
- 46429 LESSER, M. A. Moth products. Soap & Sanit. Chem. 25(3): 133, 135, 137, 143. (To be cont.) Mar. 1949. 307.8 So12
- 46430 LIN, Y. Preliminary report on the experiments in the control of the greasy cutworm [*Agrotis ypsilon*]. (In Chinese.) Ent. News [Nanking] 2: 46. Oct. 1948. 421 En816  
English summary.
- 46431 LORITZ, J. Sur la répartition verticale de quelques espèces de Lépidoptères dans les Alpes-Maritimes, les Hautes-Alpes et les Basses-Alpes. Rev. Franç. de Lépidoptérologie 11: 384-394. (To be cont.) Oct./Nov. 1948. 421 P192
- 46432 MCLINTOCK, T. F. Mapping vulnerability of spruce-fir stands in the Northeast to spruce budworm [*Choristoneura fumiferana*] attack. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 21, 20 p. Jan. 1949. 1.9622 N2St22
- 46433 MIKULSKI, J. Studies in thermal ecology of insect pupae. I. Pupae of *Malacosoma neustria* L. and *Euproctis chrysorrhoea* L. (Abs.) Akad. Umiejetości. Wydz. Mat.-Przyrodniczy. Compt. Rend. 1948(4/6): 7. Apr./June 1948. 512 K85C
- 46434 MORGAN, W. L. The *Heliothis* caterpillar (*Heliothis armigera*). Farmer & Dairyman 41: 33. Jan. 1949. 23 F225
- 46435 NOVOPOL'SKAYA, E. V. Biology of brown-tail moth [*Nygmia phaeorrhoea*]. (In Russian.) Priroda 37(9): 66. Sept. 1948. 410 P933
- 46436 PHILIBERT, M. Lutte contre le ver des pommes et des poires. Vauluse Agr. 5(86): 12. Mar. 1, 1949. 14 V26  
*Carpocapsa pomonella*.
- 46437 ROBERTSON, P. L. *Eupteromalus* sp. as a hyperparasite; some indication of its influence on the establishment of *Angitia cerophaga* in New Zealand. New Zeal. J. Sci. & Technol. B, Gen. Res. Sect. 29: 257-265. Ref. Mar. 1948. 514 N48B  
*A. cerophaga* introduced to control *Plutella maculipennis*.
- 46438 ROWE, R. Colorado's peach industry saved by insect parasites. West. Farm Life 51(6): 18-19. Mar. 15, 1949. 6 R153  
Control of *Grapholitha molesta* with insect parasites.
- 46439 RUSSWURM, A. D. A. Life histories of our butterflies. 4. Nature Lover 6: 66-68. Feb. 1949. 410 N218  
The fritillaries (*Nymphalidae*).
- 46440 SALMON, J. T. New species and records of Lepidoptera from the Three Kings Islands, New Zealand. Auckland Inst. and Mus. Rec. 3: 309-311. Dec. 20, 1948. 514 Au22R  
New spp. and forms in *Porina*, *Heliothibis*, *Lysiphragma*, and *Ctenopseutis*.
- 46441 SCHENK, P. J. The red and the yellow wood caterpillar. (In Dutch.) Groenten en Fruit 4: 571-572. Mar. 10, 1949. 80 G89  
*Cossus cossus* and *Zeuzera pyrina*.
- 46442 SCHENK, P. J. The winter nests of the brown-tail moth [*Euproctis phaeorrhoea*]. (In Dutch.) Groenten en Fruit 4: 459. Jan. 27, 1949. 80 G89
- 46443 SEILER, J., HUMBEL, E., and AMMANN, H. Das sexuelle mosaik diploider intersexe aus der kreuzung *Solenobia triquetrella* x *S. fumosella* (Lepidoptera, Psychidae). Experientia 5: 115-116. Mar. 15, 1949. 475 Ex7  
English summary.
- 46444 TITSCHACK, E., and SCHMALFUSS, H. Was befähigt die kleidermotte [*Tineola bisselliella*], wolle zu verwerten? Biochem. Ztschr. 318: 393-400. Ref. 1948. 384 B522
- 46445 TURNER, H. J. The British Noctuae [i. e. *Phalaenidae*] and their varieties. IV. (Cont.) Ent. Rec. and J. Variation 61(3, sup.): 45-52. Mar. 1949. 421 En89
- 46446 VARIN, G. Contribution à l'étude des *Satyridae* de France et du Nord de l'Afrique. Rev. Franç. de Lépidoptérologie 11: 395-398. (To be cont.) Oct./Nov. 1948. 421 P192  
Races of *Melanargia galathea*.
- 46447 WAY, M. J. A technique for determining the stomach poison effect of insecticides used against leaf-eating insects. Ann. Appl. Biol. 36: 86-112. Ref. Mar. 1949. 442.8 An72  
Tests made chiefly with larvae of *Plutella maculipennis* and *Phlogophora meticulosa*.
- 46448 WELLINGTON, E. F. Artificial media for rearing some phytophagous Lepidoptera. Nature [London] 163: 574. Apr. 1949. 472 N21
- 46449 WENE, G. P., and BLANCHARD, R. A. Control of the corn earworm [*Heliothis armigera*] on sweet corn in the Lower Rio Grande Valley. Tex. Agr. Expt. Sta. Prog. Rpt. 1154, 4 p. Mar. 22, 1949. 100 T31P
- 46450 YOSIDA, M. Toxicity of pyrethrin to certain insect larvae at their different stages of growth. (In Japanese.) Botyu-Kagaku 1948(10): 60-68. Sept. 1948. 421 B65  
English summary.
- Bombyx mori*, *Barathra brassicae*, *Chilo simplex*.
- 46451 ZAVAGLI, A. Observations on clothes moths and systems for preventing their damage to wool. (In Italian.) Laniera 62: 641-645. Nov. 1948. 45.8 B63  
See also Sericulture and the Silkworm.

## ORTHOPTERA

- 46452 ANDREWES, C. H. Orthoptera in Wiltshire. Ent. Monthly Mag. 85: 80. Mar. 1949. 421 En86
- 46453 ARM FOR grasshopper plague; insecticide sprayers will offer the swarms of these pests their first major challenge this year and perhaps their first major defeat. Impl. & Tractor 64(7): 36-37, 84-85. Apr. 2, 1949. 58.8 W41
- 46454 CHOPARD, L. Contribution à l'étude des Gryllides du Congo Belge. Rev. de Zool. et de Bot. Africaines 41: 109-121. Dec. 15, 1948. 410 R326  
New species in *Gryllotalpa*, *Gryllulus*, *Gryllopsis*, *Anaxipha*, *Oecanthus*, *Paragryllus*, and *Phaeophilacris*.
- 46455 COUSIN, G. Hybridations interspécifiques et transmission des types structuraux. B. Biol. de la France et Belg. 82: 331-387. Ref. 1948. 473 B87  
A study of hybridization between species of *Gryllus*.
- 46456 DUPUIS, C. Notes faunistiques sur quelques Orthoptères français. I-II. Feuille des Nat. (n. s.) 3: 41-46, 52-56. Ref. Mar./Apr.-May 1948. 410 F432  
I. Orthoptères et Dermaptères de Richelieu (Indre-et-Loire) (1946-1947), p. 41-46. II. *Mantis religiosa* L. dans la région parisienne de 1942 à 1947.
- 46457 GOUSTARD, M. Les antennes et le phototropisme chez *Blattella germanica*. Paris. Acad. des Sci. Compt. Rend. 228: 864-866. Mar. 7, 1949. 505 P21
- 46458 GREANEY, F. J. Join the forces—fight grasshoppers. Seedtime & Harvest 221, 1 p. 1949? 7 Se3
- 46459 HAMBLETON, E. J. The migratory locust [*Schistocerca gregaria*] of Latin America. Foreign Agr. 13: 68-70. Mar. 1949. 1.9 Ec7For
- 46460 KALSHOVEN, L. G. E. Additional data on the occurrence in Indonesia of oriental migratory locust (*Locusta migratoria manilensis* Meyen). (In Dutch.) East Indies (Dutch) Alg. Proefsta. v. Landb. Meded. 76, 18 p. Ref. 1948. 109.5 Ea73  
English summary.  
Also in Landbouw 20: 349-364. Sept./Oct. 1948. 22.5 L23
- 46461 LIBERMANN, J. Exploración acridiológica en Corrientes. IDIA; Inform. de Invest. Agr. 2(15): 14-15. Mar. 1949. 9 Id3
- 46462 MORALES AGACINO, E. Apuntes sobre los Dictyoptera marroquies del Instituto Español de Entomología. Eos 24: 335-368. Ref. Oct. 31, 1948. 421 Eo7  
*Blattidae* and *Mantidae*; including new form in *Ameles*.
- 46463 NEWMAN, L. H. Walking sticks and living leaves. Nature Lover 6: 59-60, 65. Feb. 1949. 410 N218  
*Phasmatidae* and *Phyllidae*.
- 46464 NOVIKOFF, P. A. Grasshoppers poised for attack but science will aid farmers in '49. Farm & Ranch Rev. 45(3): 8-9. Mar. 1949. 7 F223
- 46465 RIS, H., and MIRSKY, A. E. The state of the chromosomes in the interphase nucleus. J. Gen. Physiol. 32: 489-502. Ref. Mar. 20, 1949. 447.8 J822  
Observations on spermatocytes of *Melanoplus femurrubrum*.



46466 ROBB, T. R. Grasshoppers are tough six-legged animals. *Wyo. Stockman-Farmer* 55(4): 5, 23. Apr. 1949. 6 W992

46467 ROGER-MÉTAY, F. A propos de la mante religieuse [*Mantis religiosa*] dans la région parisienne. *Feuille des Nat. (n. s.)* 3: 100. Nov./Dec. 1948. 410 F432

46468 SALMON, J. T. New genera, species and records of Orthoptera from the Three Kings Islands, New Zealand. *Auckland Inst. and Mus. Rec.* 3: 301-307. Dec. 20, 1948. 514 Au22R

New spp. in *Acanthoxyla*, *Turbottoplectron* n. g., *Paraneonetus* n. g.

46469 SELLIER, R. Matériaux pour un catalogue des Orthoptères et Dermaptères de Bretagne. II. *Soc. Sci. de Bretagne. B. (Sci. Math., Phys. et Nat.)* 22: 126-128. 1947, pub. 1948. 505 R292

46470 SELLIER, R. Le polymorphisme alaire chez les Orthoptéroïdes. *Soc. Sci. de Bretagne. B. (Sci. Math., Phys. et Nat.)* 22: 95-112. Ref. 1947, pub. 1948. 505 R292

46471 SHOTWELL, R. L. The comparative effectiveness of poisoned bait and sprays for grasshopper control in Lyman County, S. Dak., 1947. *U. S. Bur. Ent. and Plant Quar.* E-771, 22 p. Mar. 1949. 1.9 En83

46472 SILVEIRA, A. DE C. Points of origin of the *Schistocerca paranensis* and its possible eradication. (In Portuguese.) *Rev. Agron. [Porto Alegre]* 12: 170-172. Oct./Dec. 1948. 9.2 R325

46473 UVAROV, B. La lucha contra la langosta. *Res* 17: 23380. Mar. 5, 1949. 286.85 R31

46474 UVAROV, B. P. Andalusian Orthoptera described by Rambur. *Eos* 24: 369-390. Oct. 31, 1948. 421 Eo7

#### SERICULTURE AND THE SILKWORM

46475 HOLEC, E. Das geheimnis des erfolges. *Österr. Kleintierzüchter* 1949: 523-524. Feb. 1949. 49 Os7

##### Sericulture in China

46476 KOZHANCHIKOV, I. V. Possibility of *Antheraea pernyi* overwintering in the egg stage. (In Russian.) *Vsesoŭŭzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(6): 25-31. 1948. 20 Akl

46477 LEONI, P. Prospects for the new sericulture season. (In Italian.) *Mezzogiorno Agr.* 5(9): 2. Feb. 27, 1949. 16 M57

##### Italy.

46478 MUDALIAR, V. M. A. Silk reeling in Italy and India; a comparative study. *Indian Textile J.* 59: 238-242, 252. Dec. 1948. 304.8 In2

46479 PEDRONI, C. Conditions for the renewal of silkworm culture. (In Italian.) *Campagna* 48: 40-41. (Cont.) Feb. 1, 1949. 16 C152

46480 TOURNEUR, M. La sériciculture. *Madagascar. Insp. Gén. des Serv. Agr. B. Agr.* 2(7): 1-15. (To be cont.) Jan. 1949. 25 M26

46481 ZULIANI, O. DE. Agricultural interests in the silk problem. (In Italian.) *Agr. Venez.* 4, i. e. 5(4): 1. Feb. 16/28, 1949. 16 Ag8264

#### SMALLER ORDERS

46482 BAGNALL, R. S. Notes on British Collembola. *Ent. Monthly Mag.* 85: 57-61. (Concl.) Mar. 1949. 421 En86

Includes new species in *Anurida*, *Tetracanthella*, *Pseudanurophorus*, *Folsomidiella* n. g., and *Litsteria* n. g.

46483 BAILEY, S. F. An annotated bibliography of North American thysanopterists. II. *Fla. Ent.* 32: 11-36. Mar. 1949. 420 F662

List of publications on thrips, and species described, by J. Douglas Hood.

46484 BERTRAND, H. Notes morphologiques sur les larves des *Sialis* Latr. (Mégaloptères, Sialidae). *Feuille des Nat. (n. s.)* 4: 5-10. Jan. 1949. 410 F432

46485 BOGGS, L. C. DDT controls lice, mites. *Washcoegg* 23(3): 8, 29. Aug. 1948. 47.8 W27

46486 BRANDÃO FILHO, J. S. Termite control. (In Portuguese.) *Brincar e Aprender* 7(31): 6, 32. Jan./Mar. 1949. 275.249 B77

46487 BROADHEAD, E. On the identity of the psocid *Cuixa canaria* Navás. *Ent. Monthly Mag.* 85: 80. Mar. 1949. 421 En86

Synonym of *Lepinotus inquilinus*.

46488 BUSHLAND, R. C. Insecticides for the control of lice attacking man and animals. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5: 1670-1677. Ref. 1948. 150 In822

46489 CALVERT, P. P. Odonata from Pirassununga (Emas), state of São Paulo, Brazil: ecological and taxonomic data. *Mus. Nac. B. Nov. Sér., Zool.* 87, 34 p. Oct. 28, 1948. 516 R47Bz

46490 CLAY, T. Species of the genus *Saemundssonina* (Mallophaga) from the Sterninae. *Amer. Mus. Nat. Hist. Amer. Mus. Novitates* 1409, 25 p. Feb. 11, 1949. 500 N483N

46491 DELAMARE-DEBOUTTEVILLE, C. Sur la morphologie des adultes aptères et ailés de Zoraptères. *Ann. des Sci. Nat. Zool. et Biol. Anim.* 9: 145-154. 1947, pub. Oct. 1948. 410 An7

46492 EICHLER, W., and NORDALM, W. Haarlinge als pelztierschmarotzer. *Anz. f. Schädlingsk.* 21: 121-125. Nov. 1948. 421 An9

*Eichlerella vulpis*, *Stachiella* sp., *Petrufquenina coypus*, and *Trichodectes octomaculatus*.

46493 GRASSÉ, P. P., and NOIROT, C. Les termites géantes de l'Afrique équatoriale. *Paris. Acad. des Sci. Compt. Rend.* 228: 727-730. Feb. 28, 1949. 505 P21

46494 HINCKS, W. D. A new genus and species of Dermaptera from Tanganyika. *Ent. Monthly Mag.* 85: 75-77. Mar. 1949. 421 En86

*Afrolabia masai*.

46495 KIMMINS, D. E. Ephemeroptera from Nyasaland, with descriptions of new species. *Ann. & Mag. Nat. Hist. (ser. 12)* 1: 825-836. Nov. 1948, pub. Mar. 11, 1949. 410 An77

New species in *Centroptilum*, and *Tricorythus*.

46496 KIMMINS, D. E. Notes on the genus *Prothermes* Weele (Megaloptera), with descriptions of two new species. *Ann. & Mag. Nat. Hist. (ser. 12)* 1: 765-781. Nov. 1948, pub. Mar. 11, 1949. 410 An77

46497 KIRBY, H. Devescovinid flagellates of termites. V. The genus *Hyperdevescovina*, the genus *Bull-nympha*, and undescribed or unrecorded species. *Calif. U. P. Zool.* 45: 319-421. 1949. 500 C125Z

46498 LHOSTE, J. Sur quelques aspects cytologiques du corpus allatum de *Forficula auricularia* L. *Paris. Acad. des Sci. Compt. Rend.* 228: 951-953. Mar. 14, 1949. 505 P21

46499 MACAN, T. T. The taxonomy of the nymphs of the British species of the genus *Ecdyonurus* (Ephem.). *Ent. Monthly Mag.* 85: 64-70. Mar. 1949. 421 En86

46500 MACY, R. W. On a migration of *Tarnetrum corruptum* (Hagen) (Odonata) in western Oregon. *Canad. Ent.* 81: 50-51. Feb. 1949. 421 C16

46501 NIZI, G. Control of olive phloeothrips [*Phloeothrips oleae*]. (In Italian.) *Gior. di Agr.* 59: 75. Mar. 6, 1949. 16 It1G

46502 NORSTRÖM, E. G. Attacks of thrips on fiber flax crops. (In Swedish.) *Lin. Dansk-Svensk Hørtids-skr.* 2: 203-204. Dec. 1948. 73.18 L63

English summary, p. 216.

46503 PARMENTER, L. Food of *Panorpa communis* L. (Mecoptera). *Ent. Monthly Mag.* 85: 70. Mar. 1949. 421 En86

Dead insects.

46504 REMY, P. Installation d'un anoploure [*Polypax serrata*] sur une chauve-souris. *Feuille des Nat. (n. s.)* 3: 97. Nov./Dec. 1948. 410 F432

46505 ROBERT, A. Les Mantispides de la Province de Québec (Planipennes). *Nat. Canad.* 76: 5-14. Ref. Jan./Feb. 1949. 410 N216

46506 ROSS, H. H. The caddisfly genus *Neothremma* Banks (Trichoptera: Limnephilidae). *Wash. Acad. Sci. J.* 39: 92-94. Mar. 15, 1949. 500 W276J

46507 SALMON, J. T. Collembola from the Three Kings Islands with a description of *Proisotomina*, new genus. *Auckland Inst. and Mus. Rec.* 3: 291-300. Dec. 20, 1948. 514 Au22R

46508 SIMMONS, S. W., and HAYES, W. J., JR. Fleas and disease. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5: 1678-1689. Ref. 1948. 150 In822

Transmission of plague, tularemia, and parasitic worms. Flea control.

46509 STONE, W. S. Review of United States studies on insecticides in the control of typhus fever. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5: 1664-1669. Ref. 1948. 150 In822

Dusts for louse control.



46510 UCHIDA, H. Apterygota of Shansi, China. *Mushi* 19: 1-5. Ref. Oct. 15, 1948. 421 M97  
Thysanura and Collembola; includes new species in *Sinella* and *Sminthurus*.

46511 VERRIER, M. L. Migrations en Auvergne de *Potamanthus luteus* L. (Ephéméroptère). *Feuille des Nat. (n. s.)* 93-94. Oct. 1948. 410 F432

46512 VERRIER, M. L. Note écologique sur *Thraulus bellus* Etn. (Ephéméroptère). *Feuille des Nat. (n. s.)* 3: 59. May 1948. 410 F432

46513 WEYER, F. Einige erfahrungen mit DDT-haltigen entlausungsmitteln. *Anz. f. Schädlingsk.* 21: 133-137. Dec. 1948. 421 An9

### AGRICULTURAL ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

### GENERAL AND MISCELLANEOUS

46514 AYERS, H. D. Farm reservoir and pond program for Canadian prairies. *Agr. Engin.* 30: 177-178, 183. Apr. 1949. 58.8 Ag3

46515 BIENEMANN, R. D. Lightning protection for farm structures. *Agr. Engin.* 30: 172, 176. Apr. 1949. 58.8 Ag3

46516 BLOCK, A. D. Lightning protection needed. *Hoard's Dairyman* 94: 254, 260. Mar. 25, 1949. 44.8 H65

46517 ESPINOSA POVEDA, A. Accidentes del trabajo en la agricultura. *Congreso Sindical de la Tierra. Temas Econ.* 3, 23 p. 1948. 281.176 C764T Spain.

46518 EVANS, R. Farm Bureau fire control. *Nation's Agr.* 24(4): 16. Apr. 1949. 280.82 B89

46519 FUMO, E. The action of the INAIL [Istituto Nazionale per l'Assicurazione contro gli Infortuni sul Lavoro] for the prevention of agricultural accidents. (In Italian.) *Gior. D'Ital. Agr.* 32(12): 1. Mar. 19, 1949. 16 G433

46520 HARRIS, J. B. Laying out the farm garden. *So. Austral. Dept. Agr. J.* 52: 250-254. (Cont.) Dec. 1948. 23 So84

46521 HULL, R. B. Developing the farmstead. *Purdue U. Agr. Ext. B.* 345, 44 p. 1948? 275.29 IN2E

46522 NATIONAL SAFETY COUNCIL. FARM DIV. Spring clean-up and farm accident prevention. Chicago? 1949. 2 p. 449.15 N212

46523 OBENAU, S. Bauer, schütze dich vor blitzschlag. *Salzburger Bauer* 4(10): 7. Mar. 10, 1949. 19 Sa3

46524 PEPE, M. Accidents in agriculture; nothing is done to enlighten the peasants. (In Italian.) *Gior. d'Ital. Agr.* 32(9): 1. Feb. 26, 1949. 16 G433

46525 PRINSEN, L. Lightning rods on the farm. (In Dutch.) *Boer en Tuinder* 3(119): 6. Apr. 16, 1949. 12 B632

46526 RICHTER, D. How about a farm pond? *Cornell Countryman* 46(6): 13, 38. Mar. 1949. 6 C81

46527 SAMMET, L. L. A development relating to agricultural engineering in the land-grant institutions. *Agr. Engin.* 30: 191-192. Apr. 1949. 58.8 Ag3

46528 SEPTROUX, J. Les explosifs en agriculture et en horticulture. *Rev. de l'Agr.* 2: 19-28. Jan. 1949. 13 R322

46529 STEWART, F. R., and GRASSIE, J. C. Surveying for agricultural students and planters. London, Allen & Unwin, 1947. 236 p. 325 St45

46530 TRENARY, O. J. Construction for fire protection. *Colo. Rancher & Farmer* 3(6): 7. Mar. 26, 1949. 6 C714

46531 U. S. DEPT. OF AGRICULTURE. SAFETY COUNCIL. Clean up or be cleaned out! 1949 Spring Clean-Up Week. Washington, 1949. 4 p. 1.90 C3Sa1

46532 U. S. EXTENSION SERV. Agricultural engineering extension work. Washington? 1949. 12 p. 1.913 E5Ag8

46533 WHITCOMB, L. R. Safety survey probes accident causes. *Agr. Leaders' Digest* 30(3): 61. Mar. 1949. 275.28 Am3

### FARM MACHINES AND EQUIPMENT

46534 ALBERDI, J. B. El problema de la mecanización de nuestro campo; cooperativas de maquinarias agrícolas. *Voz de SanCor* 3(46): 3. Feb. 16, 1949. 280.28 V94

Argentina.

46535 ANNUAIRE de la machine agricole. IV. La mécanisation à la ferme: machines à traire—écrémeuses—batteuses—presses—trieurs—matériels de manutention—moteurs—séchoirs—pompes—réfrigérateurs. ed. 1949-1950. Paris, Soc. d'Ed. et de Pub. Agr., 1949. 373 p. 58.8 An7

46536 BALLU, T. Les prix de revient en motoculture. *Acad. d'Agr. de France* 35: 95-100. Feb. 2/9, 1949. 14 P215Bc

Includes discussion.

46537 BENAD, G. Individualismus und kollektivismus in der landwirtschaft; eine agrar-psychologische umfrage über gemeinsame maschinennutzung. *Landtechnik* 4: 33-36. Jan. 31, 1949. 58.8 L235

46538 BERTHAULT, P. L'évolution de la machine agricole française et l'économie rurale algérienne. *Rev. Agr. de l'Afrique du Nord* 47: 48-49. Jan. 28, 1949. 80 R326

46539 BLASCH, J. Maschinenprüfung—maschinenkritik—maschinenwünsche. *Österr. Landtechnik* 2: 29-31. Feb. 1949. 58.8 L236

46540 BOURGET, F., and JALOGNE, A. Les avantages de la mécanisation. *Agr. Charentais (n. s.)* 3(3): 1-2. Apr. 1948. 14 Ag825

46541 BOWEN, R. Better feed handling methods. *Elect. on the Farm Mag.* 22(4): 10, 12, 14. Apr. 1949. 335.8 EL27

Equipment.

46542 BRAUSE, L. A. La Dirección de Agronomía prestará maquinarias agrícolas a las instituciones rurales. Uruguay. *Min. de Canad. y Agr. B. Inform.* 6(257): 11. Feb. 10, 1949. 9.9 G15B

46543 COLLINS, L. E. Men and machines. *Farming Gloucestershire* 8: 35, 37. 1949. 10 F2291

Mechanization and farm labor in Gloucestershire.

46544 CULPIN, C. Farm machinery. Ed. 3. London, Lockwood, 1947. 523 p. (Agr. and Hort. Ser.) 58 C89

46545 DENISON, M. Harvest triumphant, the story of Massey-Harris. New York, Dodd, Mead, 1949. 351 p. 58 D414

46546 DUMONT, J. De l'équipement des fermes aux U. S. A., quelques enseignements à en tirer. *Tunisie Agr.* 50: 3-14. Jan. 1949. 24 T832

46547 ENGELHARD, J. Ce qu'il faut penser de l'aide Marshall et des méthodes de culture américaines. *Monit. de la Mécan. Rurale* 42: 9-10. (To be cont.) Jan. 1949. 58.8 M74

46548 GAUTIER-WALTER, A. L'industrie française du machinisme agricole est en plein essor. *Monit. Agr.* 2(61): 1. Mar. 13, 1949. 14 M744

46549 HANKE, W. Die landmaschinenpreise. *Landtechnik* 4: 129-130. Mar. 15, 1949. 58.8 L235

46550 HEINRICH, O. H. Farming and mechanised agriculture in Canada and the United States. *So. Austral. Dept. Agr. J.* 52: 259-276. Jan. 1949. 23 So84

46551 HERINGER, F. J. A challenge from the field. *Impl. Rec.* 46(3): 22-23. Mar. 1949. 58.8 Im73

A farmer speaks of labor-saving devices.

46552 HAUCK. Mechanisierung der kartoffelbestellung. *Bad. Landw. Wchbl.* 116: 143-144. Mar. 19, 1949. 18 B142

46553 JEANMAIRE, H. La mécanisation agricole en France. *B. des Agr.* 45(4): 59, 61. Apr. 1949. 7 B872

46554 JOHNSON, R. E. Chain hoist unloads wagon. *Elect. on the Farm Mag.* 22(4): 42. Apr. 1949. 335.8 EL27

46555 KIRCHER, W. H. Power for farming. *Farmer [St. Paul], Gen. Ed.* 67(7): 16, 46. Apr. 2, 1949. 6 F2211

History of farm equipment.

46556 MA, P. T. Expressions of human sympathy—report on the utilization of agricultural tools and machinery allocated to China by UNRRA. (In Chinese.) *Monthly Farmers' Bank China* 9(7): 29-81. July 1948. 281.9 F225M

English summary.

46557 MCLEMORE, P. C. Mechanization can be profitable on small farm. *Cotton Trade J.* 30(13): 11-12. Apr. 1, 1949. 72.8 C8214



- 46558 MADER, W. Gedanken zum problem der mechanisierung in den landwirtschaftlichen grossbetrieben Österreichs. *Bodenkultur* 2: 301-307. 1948. 19 B635
- 46559 MAIER, E. A. Mechanization of the Louisiana sugarcane fields. IV. *Sugar Indus.* 3: 7-12. Jan./Feb. 1949. 65.8 Su332  
In English and Spanish.
- 46560 MATES, E. Economical utilization of mechanical equipment. (In Russian.) *Interagra* 2: 324-326. 1948. 28 In825  
English summary.  
In agriculture.
- 46561 MILLER, F., LINDSEY, Q. W., and GEORGE, A. G. Cost of operating machinery on Nebraska farms. *Nebr. Agr. Expt. Sta. B.* 391, 35 p. Dec. 1948. 100 N27
- 46562 MONETTE, R. Mécanisation et coopération. *Agriculture [Montreal]* 5: 385-389. Dec. 1948. 7 Ag82
- 46563 NARKHEDE, D. S. Indigenous implements of east Khandesh. *Poona Agr. Col. Mag.* 39: 53-58. Nov. 1948. 22 P79
- 46564 NATIONAL MARKET REPORTS, INC. National tractor and farm implement blue book. v. 10, No. 1, 1949. Chicago, 1949. 183 p. 58.9 N212
- 46565 NAUCK, A. K. Bessere technische aufklärung über landmaschinen. *Landtechnik* 4: 21. Jan. 15, 1949. 58.8 L235
- 46566 NAUCK, A. K. Ersatz und gebrauchzeit von landmaschinen und landgeräten. *Landtechnik* 4: 40-41. Jan. 31, 1949. 58.8 L235
- 46567 O'BRIEN, H. R. Handling feed the easy way. *Country Gent.* 119(4): 30-31. Apr. 1949. 6 C833  
Equipment.
- 46568 OGDON, M. Agricultural mechanization and Europe's economy. *Foreign Agr.* 13: 51-54. Mar. 1949. 1.9 Ec7For
- 46569 PERTICARÀ, G. Animal work and mechanical work. (In Italian.) *Allevatore* 4(49): 1-2. Dec. 5, 1948. 49 AL55
- 46570 PESCE, P. A. Livestock raising and farm mechanization. (In Italian.) *Allevatore* 5(6): 1. Feb. 6, 1949. 49 AL55
- 46571 PETERSON, W. R. Development of mechanical equipment for unloading chopped forage. *Agr. Engin.* 30: 188-189. Apr. 1949. 58.8 Ag3
- 46572 PUYAL, V. La agricultura española necesita maquinaria. *Cooperación* 8(83): 20-21, 33. Jan. 1949. 280.28 C7875
- 46573 RAIÀ, N. The Italian agricultural machinery industry continues ever to affirm itself. (In Italian.) *Coop. e Agr.* 31(13): 1. Apr. 2, 1949. 16 C78
- 46574 RANNELLS, K. Farm machinery market to continue strong. *Automotive Indus.* 100(8): 33, 68. Apr. 15, 1949. 291.8 Au82
- 46575 RAUCHENSTEIN, E., and WILCOX, W. W. Are Wisconsin farmers over-investing in machinery? *Wis. Agr. Col. Ext. Econ. Inform. Wis. Farmers* 20: 1-4. Jan. 1949. 275.29 W75Ec
- 46576 RIES, L. W. Wird der bauer von den maschinenkosten erdrückt? *Landtechnik* 4: 3-5. Jan. 15, 1949. 58.8 L235
- 46577 SALAS, C. A. La importación de máquinas será un factor esencial para el crecimiento de nuestra producción agrícola. *Res* 17: 23412. Mar. 20, 1949. 286.85 R31  
Argentina.
- 46578 SAUZE, F. Les agriculteurs demandent une meilleure compréhension de leurs besoins. *Génie Rural* 42: 108. Mar. 1949. 58.8 Au8  
Equipment.
- 46579 SCHEFFTER, H. Wo steht der landmaschinenbau. *Landtechnik* 4: 65-66. Feb. 15, 1949. 58.8 L235
- 46580 SCHMID, W. Richtlinien zur berechnung der arbeitskosten mit landwirtschaftlichen maschinen. *Grüne* 77: 81-85. (Concl.) Jan. 28, 1949. 17 Sch9
- 46581 SCHUSTER. Technik und bildung beim bauern. *Landtechnik* 4: 37. Jan. 31, 1949. 58.8 L235
- 46582 SERVE, J. Comment mécaniser une ferme de moyenne culture. *J. de la France Agr.* 5: 173, 178. Apr. 8/14, 1949. 14 J829
- 46583 SEVERSON, H. Attuned to the new trends. *Impl. & Tractor* 64(8): 46-47, 106. Apr. 16, 1949. 58.8 W41
- 46584 STAUSS, W. Die ausbildung von landtechnikern. *Landtechnik* 3: 461-462. Dec. 1948. 58.8 L235
- 46585 STREIF, G. Pferd oder motor—ist hier die frage. *Allgäuer Bauernbl.* 17: 144-145. Mar. 18, 1949. 18 AL53
- 46586 TONENGO, M. The citizen and the machine. (In Italian.) *Terra e Sole* 80: 124. Apr. 1949. 16 T273
- 46587 TRUFANT, R. A. The advantages of laziness. *Cranberries* 13(10): 14. Feb. 1949. 80 C852  
Labor saving devices.
- 46588 TUYERAS, P. Les coopératives de motoculture. *Vrai Cognac (n. s.)* 9: 107-108. Jan. 1949. 14 P29
- 46589 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm machinery, by D. O. Mesick. Washington, 1949. 5 p. 1.941 A2F224  
Equipment statistics.
- 46590 UNIVERSITY COLLEGE OF WALES. DEPT. OF AGRICULTURAL ECONOMICS. A study of a co-operative machinery group in South Wales, by T. G. Jones. Aberystwyth, 1948. 11 p. 280.258 Un3
- 46591 VIDVEI, O. Mechanization in the service of agriculture. (In Norwegian.) *Norsk Landbr.* 15: 42-44. Feb. 4, 1949. 11 N8122
- 46592 WERNEBURG, H. Landwirtschaftliche maschinen auf abzählung. *Allgäuer Bauernbl.* 17: 103-104. Feb. 25, 1949. 18 AL53
- 46593 WILCOX, W., and RAUCHENSTEIN, E. Are farmers buying too much machinery? *Agr. Situation* 33(3): 6-7. Mar. 1949. 1 Ec7Ag  
Costs and returns.
- 46594 ZANDOTTI, G. M. Small machines, much work. (In Italian.) *Terra e Sole* 80: 117-118. Apr. 1949. 16 T273

#### Animal Husbandry Equipment

- 46595 ÅKERBLUM, E. Winter horseshoeing. (In Swedish.) *Ladugården* 1949: 46, 49. Feb. 1949. 44.8 L12
- 46596 BRIGGS, H. M., and RAY, K. R. A "saving" sheep trough. *Sheep & Goat Raiser* 29(7): 24. Apr. 1949. 45.8 Sh3
- 46597 CLARK, M. Cattle feeder deluxe. *Utah Farmer* 68(15): 6. Mar. 26, 1949. 6 D45  
A home-built mechanical feeder.
- 46598 DE LAVAL SEPARATOR COMPANY. Higher profits through better milking; radio talks on good herd management, by G. H. Hopson. New York, 1948. 32 p. 44 D37H1
- 46599 GRANGE, C. Some timely advice on incubator management. *Smallholder* 80(2032): 16. Mar. 11, 1949. 10 Sml
- 46600 HOPSON, G. H. The "why" and "how" of a clean milking machine. *Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib.* 27: 30-33. 1948. 44.9 V593
- 46601 MARSHALL, W. The efficient incubator room. *Accredited Poultry Breeders' Fed. Eng. and Wales. News Serv.* 1949: 20-22, 24-25. Winter 1949. 47.8 Ac2
- 46602 MONTGOMERY, G. A. Cattle-feeding machinery. *Capper's Farmer* 60(4): 12, 62. Apr. 1949. 6 M693
- 46603 ROBITSCHKE, F. O. The problem of properly cleaning your producer's milking equipment. *South. Dairy Prod. J.* 45(4): 37, 46-47, 64-65. Apr. 1949. 44.8 So83
- 46604 STEWART, M. H. Sheep sheared in "production line." *Elect. on the Farm Mag.* 22(3): 9-10. Mar. 1949. 335.8 EL27  
Electric shearing.
- 46605 TEARE, D. W. Electric poultry brooding. *Cur. Speaking* 4(2): 13. Mar. 1949. 335.8 C93
- 46606 TUTOR, J. M. Eureka! *Cult. Mod.* 30: 125-126. Apr. 1947. 15 C89  
Poultry incubators.
- 46607 WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Laying house equipment. *Wash. State Col. Ext. B.* 341, 16 p. Feb. 1949. (Poultry Pointers 23, rev.) 275.29 W27Pou

#### Cultivation and Tillage Equipment

- 46608 BURCHARD, K. Zeichnerische darstellung von pflugkörpern. *Kuratorium f. Tech. in der Landw. Ber. über Landtech.* 1948(2): 55-63. 18 K96



- 46609 CECCUCCI, A. Harrows instead of ploughing in the mechanical breaking up of the soil. (In Italian.) *Terra e Sole* 78: 49-51. Feb. 1949. 16 T273
- 46610 CLARKE, C. N. Plough lifts—home-made hydraulic conversion. *Power Farming Austral.* 58(1): 21. Jan. 1949. 58.8 P87
- 46611 FAHRINGER, F. Mehr hackfrüchte und weniger arbeit durch vielfachgerät. *Pflug* 2: 32. Feb. 1949. 19 P48  
Potatoes.
- 46612 FORREST, J. Mechanical cutting of gorse hedges. *New Zeal. J. Agr.* 78: 45-46. Jan. 15, 1949. 23 N48J  
History of the hedge cutter and its operation.
- 46613 GOMMEL, W. Über die lage von anbaugeräten am schlepper. *Kuratorium f. Tech. in der Landw. Ber. über Landtech.* 3: 87-95. 1948. 18 K96  
Discussion, p. 96.
- 46614 ITHIER, H. Le travail mécanique des vignes en coteaux. *Potasse* 163: 46-47. Mar. 1949. 57.8 P84
- 46615 JOHNSON, A. D. Mechanical cultivators. *Gard. Illus.* 66: 72-73. Apr. 1949. 80 G169
- 46616 LARUE, P. Sécateur à lame glissante. *Arbres et Fruits* 38: 27. Apr. 1949. 80 Ar1
- 46617 MEYENBURG, K. V. Gedanken über die bodenfräse. *Landtechnik* 4: 7. Jan. 15, 1949. 58.8 L235
- 46618 MOEGLING. Beachtenswertes über geräte und arbeiten im kartoffelbau. *Württemb. Wchnbl. f. Landw.* 116: 190. Apr. 2, 1949. 18 W96
- 46619 POZDENA, L. Die ackerschleppes—ein vernachlässigtes gerät. *Burgenländische Bauernbündler* 2 (4): 5-6. Feb. 25, 1949. 19 B91
- 46620 ROBINSON, B. C. A look at rotary tillage. *Natl. County Agent* 5(3): 12-13. Mar. 1949. 275.28 N213  
Use of the rotary tiller.
- 46621 ROSENBERG, E. A. Experience with a garden tiller. *Wis. Hort.* 39: 216. Apr. 1949. 80 W752
- 46622 SCHERUGA, F. Schollenbrecher der Firma Brüder Sonneck, werkzeugschmiederei in Ybbsitz, N.-Ö. *Österr. Landtechnik* 2: 43-44. Feb. 1949. 58.8 L236
- 46623 SCHÜTZE, P. Neuzeitliche bodenbearbeitungsgeräte. *Gartenfreund f. Junggärt.* 1(9): 1-8. Sept. 1948. 80 G1935
- 46624 SPEISER. Stand und entwicklung der technik der schleppergeräte für bodenbearbeitung, bestellung und pflege. *Kuratorium f. Tech. in der Landw. Ber. über Landtech.* 3: 55-67. 1948. 18 K96
- 46625 TINDALL, C. A tool made for terracing. *Mo. Ruralist* 90(5): 32. Mar. 12, 1949. 6 R8891
- 46626 ZIMMER, F. Die neue baumsäge. *Gartenbauwirtschaft [Wien]* 1948(11): 6. Nov. 15, 1948. 80 G1936
- Fertilizer and Seed Distributors**
- 46627 ANDERSON, D., and SWANSON, A. R. Machinery for seedbed preparation and seeding on southwestern ranges. *J. Range Mangt.* 2: 64-66. Apr. 1949. 60.18 J82
- 46628 EGEN-MILTE. Neuerungen an handsä- und dibbelmaschinen. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 200. Mar. 12, 1949. 18 L2346
- 46629 ELLIOTT, D. Planting by machine; robot puts in eight thousand an hour. *New Zeal. Gard.* 5: 437-438. Feb. 1, 1949. 80 N4822
- 46630 HOARE, A. H. Greater speed gives fewer seed. *Grower [London]* 31: 548-550. Mar. 19, 1949. 286.83 M34  
Use of seed drill.
- 46631 MERRILL, R. M. Equipment for fertilizer application. *Natl. Joint Com. Fert. Appl. Proc.* 24: 32-35. 1948. 57.9 N216
- 46632 NIXON, W. M. Taking the backaches out of sodding Bermuda. *Prog. Farmer, Tex. Ed.* 64(3): 126, 132. Mar. 1949. 6 T311  
A grass sprig planter.
- 46633 SCHMIDHAUSER, P. Ein kartoffelsetzwagen. *Grüne* 77: 76-80. Jan. 28, 1949. 17 Sch9
- Harvesting Equipment**
- 46634 BURR, H. R. Mechanical sweet corn harvesters in 1948. *Canning Trade* 71(38): 7-8. Apr. 11, 1949. 286.83 T67
- 46635 DRICOT, C., DUFAY, and BRUGGEMANS. La moissonneuse-batteuse en Belgique. *Equip. Rur.* 1: 124-146. (To be cont.) Sept. 1948. 58.8 Eq5
- 46636 ELMER, J. Kleinschlepper und motormäher. *Österr. Landtechnik* 2: 45-46. Feb. 1949. 58.8 L236
- 46637 ENGELHARD, J. Une motofaucheuse. *Rustica* 22(11): 223, 228. Mar. 13, 1949. 14 R92
- 46638 HERBSTHOFER, F. Der europäische mäh-drescher. *Landtechnik* 4: 131-133. Mar. 15, 1949. 58.8 L235
- 46639 KING, D. L. Mower service—overhauling the cutter bar. *Power Farming Austral.* 58(2): 25, 27, 29. Feb. 1949. 58.8 P87
- 46640 LE BOT. Le moissonnage-battage en Maine-et-Loire. *Potasse* 163: 42-45. Mar. 1949. 57.8 P84
- 46641 LORENZEN, C. Onion harvester. *Fruit & Veg. Rev.* 11: 14, 22. Apr. 1949. 80 C1224  
Similar title in *Farm Impl. News* 70(7): 48, 122. Apr. 7, 1949. 58.8 F22
- 46642 LOY, L. G. VAN, and WELDEN, M. VAN. De l'influence du réglage de la moissonneuse-batteuse sur l'importance des pertes de graines. *Equip. Rur.* 1: 146-182. Sept. 1948. 58.8 Eq5
- 46643 MCBIRNEY, S. W. Present status of mechanical harvest of sugar beets. *U. S. Bur. Plant Indus., Soils, and Agr. Engin. Inform. Ser.* 94, 9 p. Mar. 1949. 1.9 R531I
- 46644 MARKS, K. Mähdrescher mit strohhäcksler. *Landtechnik* 4: 5-6. Jan. 15, 1949. 58.8 L235
- 46645 PIACCO, R. Prospects for the introduction of mechanical harvesting of rice in Italy. (In Italian.) *Risicoltura* 37: 38-43. (Cont.) Feb. 1949. 59.8 G43
- 46646 SCHOFFELMAYER, V. West Texas home of mass production of cotton; cotton stripper likely to alter status of fiber. *Tex. Chemurg. News* 4(10): 1. Apr. 1, 1949. 381 T29
- 46647 SHEA, L. J. The harvesting of linseed; adjustments to header necessary for good sample. *Power Farming Austral.* 58(2): 23. Feb. 1949. 58.8 P87
- 46648 VAN DEN BERG, X. La récolte du tournesol à la moissonneuse-batteuse. *Inform. Maroc.* 412: 1, 3. Dec. 4, 1948. 281.8 In3
- Land Clearing Equipment**
- 46649 DANIELS, E. A. The new look for New England farms. *New England Homestead* 122(5): 30, 31. Mar. 12, 1949. 6 N442  
The use of bulldozers to enlarge fields and remove obstacles.
- 46650 PHILLIPS, R. H. How to s-t-r-e-t-c-h your land-clearing dollar. *Amer. Home* 41(5): 144-149. Apr. 1949. 80 Am313
- 46651 SCHULZ, W. G. From stump land to profit land. *West. Dairy J.* 5(6): 24, 59-61. Apr. 1, 1949. 44.8 W524
- Processing Equipment Used on the Farm**
- 46652 BARAGAR, A. E., and DOWNS, P. A. Portable electric home milk pasteurizers. *Nebr. Agr. Expt. Sta. Res. B.* 157, 19 p. Oct. 1948. 100 N27
- 46653 BAUR, M. Noch ist es zeit, heutrocknungsgeräte herzustellen. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 197-198. Mar. 12, 1949. 18 L2346
- 46654 BERTSCH, M. Old Mormon hay press still can be used. *Prairie Farmer, Gen. Ed.* 121(6): 49-50. Mar. 19, 1949. 6 P883
- 46655 BRUGGEMANS, R. J. Considérations sur les séchoirs à grains. *Equip. Rur.* 1: 183-186. Sept. 1948. 58.8 Eq5
- 46656 CROPSEY, M. G. Design of a small 12 cu ft front opening freezer. *Farm Electrifi.* 3(2): 21-25. Mar./Apr. 1949. 335.8 F224
- 46657 DENMARK. STATENS HUSHOLDNINGSRAAD. Beretning angaaende arbejdsprøve med kartoffelskrælle-maskiner [Report on tests of potato peelers]. København, 1948. 28 p. 58 D413
- 46658 DOBIE, J. B. Barn mow haydrying in California. *Calif. Agr. Col. Ext. C.* 149, 16 p. Feb. 1949. 275.29 C12C
- 46659 FINN-KELCEY, P. G. The application of barn hay drying. *Scot. Farmer* 57: 466-467. Feb. 12, 1949. 10 Sco8



## Vehicles

- 46660 FREI, O. Schüttlerlose mehrtrommel-dreschmaschine. Drescher u. Pflüger 2: 4-5. Jan. 15, 1949. 58.8 D81
- 46661 HERBSTHOFER, F. Praktische hilfsmittel bei schlechter entgrannung. Österr. Landtechnik 2: 38-40. Feb. 1949. 58.8 L236
- 46662 LOWE, C. E. Management of the coal furnace for tobacco barns. Rhodesia Agr. J. 45: 436-442. Sept./Oct. 1948. 24 R34
- 46663 MILLER, I. Weather loses another bout with science; corn dried mechanically. North Cent. News 6 (6): 4. Apr. 16, 1949. 335.8 N81
- 46664 REHRL, K. Winterarbeit an der dreschmaschine macht sich im herbst bezahlt. Pflug 2: 26-27. Feb. 1949. 19 P48
- 46665 TURNER, A. Sees big future for crop conditioners. (Excerpts.) Agr. Leaders' Digest 30(3): 30, 32-33. Mar. 1949. 275.28 Am3
- Driers for grain, hay, and other field crops.
- Repair, Maintenance, and Construction Equipment**
- 46666 DARBYSHIRE, J. M. New multi-purpose grease is farmers' friend. Ohio Farm Bur. News 28(8): 34. Mar. 1949. 6 Oh34
- 46667 DRIFTMIR, R. H. A machinery shed and shop. Prog. Farmer, Tex. Ed. 64(4): 60, 61. Apr. 1949. 6 T311
- 46668 HURST, H. A profitable service shop. I. Impl. & Tractor 64(8): 40-41, 101-108. Apr. 16, 1949. 58.8 W41
- 46669 PEACOCK, I., and PEACOCK, M. Starting afresh in the country. 5. A rural machine shop. Countryman [Burford] 39: 94-96. Spring 1949. 281.28 C832
- 46670 ROY, P. E. L'atelier sur la ferme. B. des Agr. 45(4): 101-103. Apr. 1949. 7 B872
- Equipment.
- Spraying and Dusting Equipment**
- 46671 AKESSON, N. B., and HARVEY, W. A. Chemical weed-control equipment. Calif. Agr. Expt. Sta. C. 389, 43 p. Dec. 1948. 100 C12S
- 46672 AKESSON, N. B. Progress of chemical sprayers: studies on weed-control equipment. Rice J. 52(3): 24-25. Mar. 1949. 59.8 R36
- 46673 ANDERSON, E. D. The farm sprayer is here to stay. Farm Equip. Retailing 7(4): 32, 117. Apr. 1949. 58.8 F2292
- 46674 ANDERSON, E. D. Spray equipment for the livestock farm. Breeder's Gaz. 114(5): 5, 14. May 1949. 49 B74
- 46675 BACHMANN, F. Pflanzenvergasung mit mobiler zelle. Schweiz. Z. f. Obst u. Weinbau 58: 43-44. Jan. 15, 1949. 80 Sch9
- 46676 CIFERRI, R. The advance guard insecticides also want advance guard rigs. (In Italian.) Terra e Sole 79: 84-86. Mar. 1949. 16 T273
- 46677 CRANDELL, H. A. A unit for catch basin spraying. Mosquito News 9: 14-15. Mar. 1949. 421 M85
- 46678 DREES, H. Fortschrittliche pflanzenschutzgeräte. Landtechnik 4: 6. Jan. 15, 1949. 58.8 L235
- Spraying equipment.
- 46679 FJELDDALEN, J. A practical spraying - dusting machine against plant diseases in agriculture and gardening. (In Norwegian.) Norsk Landbr. 15: 50-51. Feb. 4, 1949. 11 N8122
- 46680 HENDERSON, G. R., and TERRY, C. W. This easy method determines number of gallons sprayer delivers per acre. Farm Equip. Retailing 7(4): 36. Apr. 1949. 58.8 F2292
- 46681 JANVRY, J. C. DE. Traitements par avions et par hélicoptères. Ann. de la Mach. Agr. 3: 19-22. 1948. 58.8 An7
- 46682 JOHNSON, A. D. The Brosson rainer & powder blower. Amateur Gard. 65(3384): 21. Mar. 22, 1949. 80 Am13
- 46683 MAUCH, A. Zapfwellenspritze für den obstbau. Landtechnik 4: 139. Mar. 15, 1949. 58.8 L235
- 46684 STAGE, H. H., and BISHOPP, F. C. Equipment for dispersing insecticides. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1729-1737. Ref. 1948. 150 In822
- 46685 ANIANSSON, G., and ANDERSSON, T. Tractor-drawn implement trailers for machinery stations and farms. Jordbrukstek. För. Meddel. 222, 46 p. 1949. 11 J76M
- English summary.
- 46686 BARBIER, A. L'art de graisser son tracteur. Colon Franç. de Tunisie 59(2087): 2, 4. Feb. 19, 1949. 24 C712
- 46687 BENAD, G. Bauer und schlepper; ein soziologischer versuch zur klärung des problems. Landtechnik 4: 69-71. Feb. 15, 1949. 58.8 L235
- 46688 BERNARD, P. Un aspect économique de l'équilibre tracteurs-chevaux. 1. Dans une ferme belge (élevage chevalin). Monit. Agr. 2(64): 2. Apr. 3, 1949. 14 M744
- 46689 BERNARD, P. L'équilibre tracteur-chevaux. Monit. Agr. 2(61): 2. Mar. 13, 1949. 14 M744
- 46690 BOMPARD, L. En attendant la liberté de l'essence l'agriculture doit bénéficier des 100 litres attribués dernièrement. J. de la France Agr. 5: 161, 165. Apr. 1/7, 1949. 14 J829
- 46691 BOMPARD, L. La liberté de l'essence sera rendue lorsque les besoins de l'agriculture seront satisfaits. J. de la France Agr. 5: 173-174. Apr. 8/14, 1949. 14 J829
- 46692 BUSTINZA, J. M. DE. El tractor del porvenir ha sido examinado en la asamblea de la Sociedad de Ingeniería Automotriz, en Chicago. Inform. Com. Españ. 180, sup.: 2-4. Aug. 15, 1948. 286.8 In3
- 46693 CARDONNE, P. Tracteurs à chenilles ou tracteurs à roues. Tribune Agr. (n. s.) 42(756): 1. Mar. 30, 1949. 24 T732
- 46694 CHUNIKHIN, V. M. Sets of parts and instruments supplied to tractors at shipping from factory. (In Russian.) Tekhsovet MTS 9(38): 6-8. 1948. 58.8 T233
- 46695 CLYDE, A. W. Cushion hitch developments. Agr. Engin. 30: 169-171. Apr. 1949. 58.8 Ag3
- Device for stopping tractor when plow hits obstacle.
- 46696 COMBAL, H. Évolution du parc de tracteurs de l'agriculture algérienne. Voix des Colons 31(1496): 2. Mar. 21, 1949. 24 V85
- Also in Rev. Agr. de l'Afrique du Nord 47: 184-185. Mar. 25, 1949. 80 R326
- 46697 CONGDON, J. The story of Unico tires. I. Ohio Farm Bur. News 28(8): 28-29. Mar. 1949. 6 Oh34
- 46698 DELIGNIÈRES, B. Quelques problèmes économiques posés par l'utilisation des tracteurs (Grande-Bretagne-U.S.A.-U.R.S.S.). France. Min. de l'Agr. Rev. Inform. Econ. et Statis. 1948: 145-148. July 1948. 281.8 F84
- 46699 DENCKER, C. H. Welche schlepperbauarten benötigt die deutsche landwirtschaft? Kuratorium f. Tech. in der Landw. Ber. über Landtech. 3: 44-53. 1948. 18 K96
- Discussion, p. 54.
- 46700 DEXTER, S. T. A self-loading and self-unloading wagon for long hay. Mich. Agr. Expt. Sta. Q. B. 31: 313-320. Feb. 1949. 100 M58S
- 46701 ECKL, A. Zur entwicklung des schleppers. Landtechnik 4: 67-68. Feb. 15, 1949. 58.8 L235
- 46702 EDWARDS, C. M. 4-H boys enthusiastic about tractor operators' contest. Ext. Serv. Rev. 20: 46. Mar. 1949. 1 Ex892Ex
- 46703 FIGENSCHER, C. Don't miss the rich farm tire market! Tire Rev. 49(3): 49, 80. Mar. 1949. 305.8 In23
- 46704 FISCHER-SCHLEMM, W. E. Entwicklung der motorischen geräte zur grünland- und getreideernte insbesondere für den anbau am schlepper. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 3: 68-80. 1948. 18 K96
- 46705 GLIEMEROTH. Selbstverschuldete strukturstörungen des bodens unter besonderer berücksichtigung des schlepperraddrucks. Kuratorium f. Tech. in der Landw. Ber. über Landtech. 1948(2): 19-54. 18 K96
- 46706 HIGGINS, F. H. Col. Hyde's rubber-shod tractors 1871-1885. Calif. Farmer, North. Ed. 190: 254-255. Mar. 12, 1949. 6 C126
- 46707 JANSZ, N. J. L. A note on the factors affecting the economic use of tractors in ploughing and harrowing (paddy [rice]) land. Trop. Agr. [Ceylon] 104: 75-78. Apr./June 1948. 26 T751



- 46708 LACOMBE, R. Le tracteur vigneron. *Agriculture* [Paris] 13: 13-17. Jan. 1949. 14 Ag823
- 46709 LEIDL, E. Der alpentraktör ein raupenfahzeug? *Österr. Landtechnik* 2: 42-43. Feb. 1949. 58.8 L236
- 46710 LEIDL, E. Der Steyr-kleintraktor in sicht! *Salzburger Bauer* 4(7): 1. Feb. 17, 1949. 19 Sa3
- 46711 LENTZ, A. Schlepper: schlupf und bodendruck. *Saat u. Ernte* 3(6): 1-3. (To be cont.) June 1948. 18 Sa12
- 46712 MERRICK, R. D. Should China use tractors? *China Weekly Rev.* 112: 312-314. Feb. 26, 1949. 280.8 C445
- 46713 MEYER, H. Die bedeutung des schleppers für technik und landwirtschaft. *Kuratorium f. Tech. in der Landw. Ber. über Landtech.* 3: 7-20. 1948. 18 K96 Discussion, p. 20-22.
- 46714 MEYER, H. Beiträge zur beurteilung von schlepperbauarten. *Kuratorium f. Tech. in der Landw. Ber. über Landtech.* 3: 108-119. 1948. 18 K96
- 46715 MEYER, H. Luftreifenfragen. *Kuratorium f. Tech. in der Landw. Ber. über Landtech.* 3: 97-101. 1948. 18 K96 Discussion, p. 101-107. For tractors.
- 46716 MIEGE, E. L'emploi de l'aviation en agriculture. *Inform. Maroc.* 419: 1, 5. Jan. 22, 1949. 281.8 In3
- 46717 PATRICK, R. L. How to get from your tractor more power with less fuel. *Prog. Farmer, Miss.-Ark.-La. Ed.* 64(4): 40, 59. Apr. 1949. 6 So81
- 46718 PATRICK, R. L. Tractor fuel—buy clean, keep clean, handle clean. *Prog. Farmer, Tex. Ed.* 64(3): 57, 61. Mar. 1949. 6 T311
- 46719 PERTICARÀ, G. A comparison of the cost of power from tractors and draft animals. (In Italian.) *Terra e Sole* 79: 77-79. Mar. 1949. 16 T273
- 46720 PRIEBBERNOW, W. Behelfsgeräte zum 11 PS Deutz-schlepper. *Landtechnik* 4: 135-139. Mar. 15, 1949. 58.8 L235
- 46721 RIZZO, S. L. Orientation in choosing an agricultural tractor. (In Italian.) *Terra e Sole* 79: 41-44, 87-88. Feb., Mar. 1949. 16 T273
- 46722 SEIBOLD, H. Stand der normung der ackerschlepper. *Kuratorium f. Tech. in der Landw. Ber. über Landtech.* 3: 158-168. 1948. 18 K96 Discussion, p. 168-169.
- 46723 SIMBRINGER, F. Die forderung der landwirtschaft an den schlepper. *Kuratorium f. Tech. in der Landw. Ber. über Landtech.* 3: 23-32. 1948. 18 K96
- 46724 TAVERNETTI, J. R. Diesel versus gasoline tractors. *Impl. Rec.* 46(3): 24. Mar. 1949. 58.8 Im73
- 46725 VOGT, C. J. Fuels for tractors—gasoline, diesel, LP gas, oils. *Impl. Rec.* 46(3): 23, 65, 78. Mar. 1949. 58.8 Im73
- 46726 VORONOV, P., and KONDRAT'EV, M. Mechanical cleansing of [tractor] parts. (In Russian.) *Tekhsociety MTS* 9(21): 7-8. 1948. 58.8 T233
- 46727 WIEBE, R., and NOWAKOWSKA, J. The technical literature of agricultural motor fuels, including physical and chemical properties, engine performance, economics, patents, and books. *U. S. D. A. Bibliog. B.* 10, 259 p. Feb. 1949. 1 Ag84Bi
- 46728 WORTHINGTON, W. H. Evaluation of factors affecting the operating stability of wheel tractors. *Agr. Engin.* 30: 179-183. (Concl.) Apr. 1948. 58.8 Ag3
- 46729 WRIGHT, J. Saskatchewan's tractor museum; old time machines collected at North Battleford. *Country Guide* 68(3): 69-70. Mar. 1949. 7 G76 Displayed by the Western Development Museum.
- 46730 ZÜLCH, R. Ackerschlepper mit allradantrieb. *Saat u. Ernte* 3(6): 4-5. June 1948. 18 Sa12
- 46734 LAUGER, J. Here's way to give the old place a face lifting. *Iowa Agriculturist* 47(8): 18-19. Mar. 1949. 6 Io9 Insulated siding.
- 46735 MOLTCHANOVSKY, V. La construction et la reconstruction rurales en Russie (R. S. F. S. R.) *Agence France-Presse. Inform. et Doc.* 234: 9-10. Apr. 9, 1949. 280.9 Ag3 Housing.
- 46736 MORTL, E. Bauen für die landwirtschaft. *Kärntner Bauer* 99: 89-90. Mar. 15, 1949. 19 K14
- 46737 U. S. EXTENSION SERV. How one State [Virginia] is using social and economic facts in planning an extension program in housing. Washington, 1948. 4 p. 1.913 A2H839

## Animal Shelters and Animal Service Buildings

- 46738 ARCHES, M. D. La maison des canards (brooder house). *Monit. Agr.* 2(61): 19. Mar. 13, 1949. 14 M744
- 46739 BLACK, J. J. Here is a cheap fold to build at home. *Poultry Farmer* [London] 120(3115): 10. Mar. 18, 1949. 47.8 F312
- 46740 BOYD, J. S. Factors affecting the design of a milk house. *Mich. Agr. Expt. Sta. Q. B.* 31: 321-331. Feb. 1949. 100 M58S
- 46741 BURNETT, C. Cutting milk production costs with pen barns. *Milk Dealer* 38(6): 42-43, 112, 114, 116. Mar. 1949. 44.8 M595
- 46742 CASA PACHECO, MARQUES DE. Las palomas Zuritas. *Cult. Mod.* 30: 137-138. Apr. 1947. 15 C89 Chiefly on housing.
- 46743 DAIL, H. M. Arch-roof barn stops traffic. *Capper's Farmer* 60(4): 46. Apr. 1949. 6 M693
- 46744 DENLINGER, M. G. Complete kennel construction. Washington, Denlinger, 1949. 208 p. 48 D41Ck
- 46745 DOUGHERTY, J. E., BELTON, H. L., and ASMUNDSON, V. S. Poultry houses and equipment. *Calif. Agr. Expt. Sta. B.* 476, 75 p. Feb. 1949. 100 C12S
- 46746 EDWARDS, L. Portable utility building. *Country Gent.* 119(4): 22, 144, 145. Apr. 1949. 6 C833
- 46747 FORMIGONI. Current problems: development of the stall. (In Italian.) *Campagna* 48: 72-73. Mar. 1, 1949. 16 C152
- 46748 FOSTER, G. Fine points in buying [poultry] housing. *Smallholder* 80(2032): 16. Mar. 11, 1949. 10 Sml
- 46749 GHIGGOILE, O. A. Dairy farm construction. *Calif. Dairyman* 29(4): 8. Mar. 26, 1949. 44.8 C12 Milk houses and milking barns.
- 46750 GILLAN, F. The [dairy] barn that Bigalow built. *Cornell Countryman* 46(6): 17, 46. Mar. 1949. 6 C81
- 46751 HARDY, C. L'octroi des subsides pour l'amélioration des étables. *Rev. de l'Agr.* 2: 29-31. Jan. 1949. 13 R322
- 46752 INGLIS, J. S. S., and ROBERTSON, A. Hygienic aspects of pig housing; a review. *Vet. Rec.* 61: 141-145. Ref. Mar. 19, 1949. 41.8 V641
- 46753 KING, D. Summer poultry houses for year-round use. *Farm & Ranch* 68(4): 45. Apr. 1949. 6 T31
- 46754 KOLL, F. Technische fortschritte fordern neue scheunenkonstruktionen. *Österr. Landtechnik* 2: 40-41. Feb. 1949. 58.8 L236
- 46755 KOSSMAG. Die einstreu in den verschiedenen haustierstallungen. *Deut. Tierärztl. Wchnschr.* 55: 183-185. June 15, 1948. 41.8 D482
- 46756 KRUEGER, W. C. Building of masonry? Here are points to watch. *Poultry Tribune* 55(4): 6, 44-47. Apr. 1949. 47.8 P8642
- 46757 MCGUCKIAN, A. A. Housing for health in pig production. *Farmers' J.* 29: 230-231. (Cont.) Mar. 1949. 10 F2234
- 46758 MILLER, I. Add barn cleaners to growing list of time and labor savers. *North Cent. News* 6(5): 4. Mar. 17, 1949. 335.8 N81
- 46759 NEWMAN, T. C., and CARSE, G. M. D. Slop-ing floors for farrowing pens; the Kentucky pen. *Agr. Gaz. N. S. Wales* 60: 28-30. Jan. 1949. 23 N472
- 46760 NOTH, H. Die einrichtung von gespanntständen. *Tierzucht* 2: 171-176. Nov./Dec. 1948. 49 T443

## FARM STRUCTURES AND RURAL HOUSING

- 46731 BOOY, A. Roofs. *Farming Gloucestershire* 8: 37, 39. 1949. 10 F2291
- 46732 BOUMA, G. J. A. Farm plan. V. Farmstead for the Walden and Lege Midden. (In Friesian.) *Friesch Landbouwblad* 46: 91. Feb. 18, 1949. 12 F91
- 46733 HJELM, L. Investment of building capital in agriculture. (In Swedish.) *Ladugården* 1949: 12-16. Jan. 1949. 44.8 L12



46761 NOTH, H. Massordnung im stallbau. Tierzucht 2: 155-158. Oct. 1948. 49 T443  
In the United States.

46762 NOTH, H. Der mittellangstand. Deut. Bauerntech. 2(9): 16-17. Sept. 1948. 58.8 D48  
Cattle stalls.

46763 PORTEOUS, H. \$6,000 saved on grade A dairy barn. Calif. Farmer, North. Ed. 190: 311-312. Mar. 26, 1949. 6 C126

46764 POULSEN, E. Heat insulation of stables. (In Danish.) Denmark. Statens Husdyrbrug. Forsøgslab. Beret. 238, 267 p. Ref. 1949. 104 D41

46765 SAVAGE, W. N. Ratproofing pays off. Everybodys Poultry Mag. 53(11): 20-21. Dec. 1948. 47.8 F213P

Poultry houses.

46766 THOMSON, T. N. Radiant heating of brooder houses is a coming thing. Plumbing & Heating J. 129(4): 47-50, 135-136. Apr. 1949. 291.8 P73

46767 VACCHERI, G. A modern stall. (In Italian.) Campagna 48: 37-38. Feb. 1, 1949. 16 C152  
For cattle.

46768 WAGNER, C. Die bedeutung des nistkastens für die winterzucht. Österr. Kleintierzüchter 1949: 518. Feb. 1949. 49 Os7

Rabbits.

46769 WEAVER, L. E. Supplying heat for brooding chicks. Amer. Agr. 146: 179-181. Mar. 19, 1949. 6 Am3

46770 WOOLEY, J. C., and RAGSDALE, A. C. Dairy farm building plans. Mo. Agr. Col. Ext. C. 470, rev., 15 p. July 1948. 275.29 M69C  
Barns and milk houses.

#### Farmhouses and Farmsteads

46771 BONASERA, F. Rural housing in the Peza Valley (west central Albania). (In Italian.) Universo 28: 297-302. May/June 1948. 331.8 Un3

46772 DOOLE, L. E. Home is where you remake it. Nebr. Farmer 91(6): 8, 23. Mar. 19, 1949. 6 N27  
A remodeled farm house.

46773 GARNETT, W. E. Virginia farm housing. Va. Farm Econ. 118: 1255-1259. Feb. 1949. 275.29 V813

46774 HEIDE, B. Die technik als helferin der bäuerin. Österr. Landtechnik 2: 46-47. Feb. 1949. 58.8 L236

46775 HINCHCLIFF, K. How to demonstrate farm-house remodeling. Agr. Leaders' Digest 30(3): 20-21. Mar. 1949. 275.28 Am3

46776 LIEBSCHER, H. Bausorgen am lande. Kärntner Bauer 99: 87-89. Mar. 15, 1949. 19 K14  
Methods for meeting the farm housing shortage.

46777 STROHM, J. A \$10,000 house for the hired man. Country Gent. 119(4): 36, 141-143. Apr. 1949. 6 C833

46778 U. S. DEPT. OF AGRICULTURE. A step-saving kitchen; motion picture in color. U. S. D. A. PA-67, 2 p. 1949? 1 Ag84Pro

46779 WICHES, H. E. Choose a farm house to fit your farm. Wash. State Col. Ext. B. 389, 7 p. Mar. 1949. 275.29 W27P  
Farm house plans.

#### Greenhouses and Plant Service Buildings

46780 BRANDON, D. Electrically heated cloches. Amateur Gard. 65(3381): 21. Mar. 1, 1949. 80 Am13

46781 BROOKER, J. L. Constructing a pergola. Amateur Gard. 65(3377): 14-15. Feb. 1, 1949. 80 Am13

46782 CUMMINGS, M. B. Inexpensive spring greenhouse. New England Homestead 122(5): 38. Mar. 12, 1949. 6 N442

46783 FAWCETT, C. H. Glasshouse heating with low pressure steam. Grower [London] 31: 498-499, 501, 551, 553, 555. Mar. 12, 19, 1949. 286.83 M34

46784 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. The construction and heating of commercial glasshouses. Gt. Brit. Min. Agr. and Fisheries. B. 115, 47 p. 1949. 10 G794B

46785 HARTMANN, G. Elektrowärme im gartenbau. Süddeut. Erwerbsgärt. 2: 3-4. Jan. 1948. 80 Su2  
Greenhouses.

46786 HARTMANN, G. Zusätzliche elektrische heizeinrichtungen in schweizerischen gewächshäusern. Süddeut. Erwerbsgärt. 3: 6. Jan. 1, 1949. 80 Su2

46787 LANDREVILLE, P. A propos de couches chaudes. B. des Agr. 45(3): 51. Mar. 1949. 7 B872

46788 LOCHHAM. Berechnung einer gewächshausheizung. Süddeut. Erwerbsgärt. 2: 123. Dec. 15, 1948. 80 Su2

46789 PROCTER, C. Semi-permanent Dutch light house. Grower [London] 31: 691. Apr. 9, 1949. 286.83 M34

46790 ROCKWELL, F. F. How to keep a coldframe cold. Home Gard. 12(6): 17-19. Dec. 1948. 80 H756

46791 SHEWELL-COOPER, W. E. Greenhouse insulation. Amateur Gard. 65(3377): 20. Feb. 1, 1949. 80 Am13

46792 VEN, R. V. D. Construction of greenhouses. II. (In Dutch.) Groenten en Fruit 4: 580. Mar. 10, 1949. 80 G89

46793 ZOLOTAREV, V. Use of Ramzin boilers in greenhouses. (In Russian.) Sad i Ogorod 1948(9): 74-75. Sept. 1948. 87 Su1  
Heating.

#### Materials and Methods

46794 BROWN, J. J. Aluminum paint is changing our Western color schemes. Farm & Ranch Rev. 45(3): 26-27. Mar. 1949. 7 F223

46795 BROWNE, F. L. A standard of quality for house paint. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1734, 5 p. Jan. 1949. 1.9 F761R

46796 CARTER, D. G. Building with concrete. Capper's Farmer 60(4): 16, 56-57. Apr. 1949. 6 M693

46797 EVRART, P. Le beton à la campagne. VI. Courrier Hort. 10: 740-741. Dec. 1948. 80 C834

46798 LALLOY, M. Ce qu'il faut savoir en maîtrise de construction: chaux et ciment. Génie Rural 42: 119-121. Mar. 1949. 58.8 Au8

46799 PORTLAND CEMENT ASSOCIATION. Farm concrete. Chicago, 1948. 15 p. 299 P83F

46800 VINE, R. The forgotten art of splitting shingles. New Zeal. Farmer Weekly 69(25): 8-9. Feb. 3, 1949. 23 N484

#### Storage Structures

46801 BENNETT, R. R., HAWKS, S. N., JR., and RITCHIE, R. M., JR. Flue-cured tobacco barn construction. N. C. Agr. Col. Ext. C. 316, rev., 27 p. Jan. 1949. 275.29 N811

46802 BUSHNELL, H. H. Silos make a comeback. West. Dairy J. 5(6): 26, 56-57. Apr. 1, 1949. 44.8 W524

46803 FITCH, C. L. Potatoes and other truck crops. Packer 49(21): 13. Apr. 23, 1949. 286.8 N483  
Storage bin designs.

46804 GREAT LAKES STEEL CORPORATION. STRAN STEEL DIV. Corn storage and drying building... October 1947 design, type - B. Rev. Detroit, 1948. 5 p. (Quonset 32) 296 G797

46805 GRIEBELER, W. L., and HUBER, M. G. How to build a homemade wood stave silo. Oreg. State Col. Ext. C. 529, 12 p. Mar. 1949. 275.29 Cr32C

46806 LECKIE, J. N. Los silos de trinchera. Suelo Tico 1: 366-369. Dec. 1948. 8 Su2

46807 MCKINNEY, J. Canned pastures. Can a dairyman afford to be without a silo? Prog. Farmer, Miss.-Ark.-La. Ed. 64(4): 17. Apr. 1949. 6 So81  
Types and costs silos.

46808 MUNDE, H. Die stellung des gärfutterbehälters im landw. betrieb. Landw. Wchnbl. f. Westfalen u. Lippe 106: 151-152. Feb. 26, 1949. 18 L2346

46809 PATERSON, R. Pits and pitfalls. Farmers Weekly [London] 30(10): 47, 49. Mar. 11, 1949. 10 F2226

Silage storage.

46810 RYSTEDT, F. Spannmålssilor; deras ursprung och utveckling genom tiderna [Grain silos; their origin and development through the ages]. Karlstad, Karlstads-Tidnings A.-B. Tryckeri, 1948. 70 p. Ref. 60.7 R99  
English summary.

46811 SERS, J. Silos-cuves à grains. Rustica 22: 169. Feb. 27, 1949. 14 R92  
Construction.

46812 SIRRI, A. Tower silos or pit silos? (In Italian.) Allevatore 4(49): 5. Dec. 5, 1948. 49 AL55

46813 VILLALOBOS A., L. A. Silos de trinchera. Suelo Tico 1: 316-320. Nov. 1948. 8 Su2



## Walls and Fences

- 46814 FERGUSON, F. G. "Floating" post for a wide gateway. *New Zeal. J. Agr.* 78: 81. Jan. 15, 1949. 23 N48J
- 46815 HOARD, B. "Operation fenceline" stymies marauding deer. *Wash. Farmer* 74: 195. Mar. 17, 1949. 6 R151
- 46816 IOWA agricultural fencing law. *Iowa Law Rev.* 34: 330-340. Jan. 1949. L9 lo9
- 46817 KÖRPRICH, H. Der elektro-weidezaun, seine grundlagen und seine anwendung in der landwirtschaft. *Saat u. Ernte* 3(6): 5-7. June 1948. 18 Sa12
- 46818 MCGINNIS, R. J. Mr. Tripett digs a post hole. *Farm Q.* 4: 36-37, 141. Spring 1949. 6 F22995
- 46819 POMMER, A. Elektrozaun oder knotengitterzaun? *Österr. Landtechnik* 2: 34-35. Feb. 1949. 58.8 L236
- 46820 SCHULZE-EVERDING, J. Die elektrische weideinzäunung! *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 137. Feb. 19, 1949. 18 L2346

## FARM UTILITIES

## Electricity and Electrification

- 46821 BLANCHET, J. L'électricité à la maison. *Terre de Chez Nous* 21(21): 11, 15. Feb. 16, 1949. 7 T27
- 46822 CAMPBELL, H. E., and RYDBECK, V. A. Shunt capacitors for REA-financed cooperative systems. *Rur. Electrification* 1949: 23, 52. Feb. 1949. 335.8 N21
- 46823 DAVIS, J. F. Electrification of U. S. farms nears the three-quarter mark. *Agr. Situation* 33(3): 8-9. Mar. 1949. 1 Ec7Ag
- 46824 EDGE, D. R., and others. Overcurrent investigation on a rural distribution system. (Abs.) *Elect. Engin.* 68: 334. Apr. 1949. 335.8 EL225
- W. C. McKinley, G. F. Lincks, and J. H. Leh, joint authors.
- 46825 EMMERT, L. R. Aids to agricultural development in farm production. *Farm Electrification* 3(2): 7-12. Mar./Apr. 1949. 335.8 F224
- Electricity on the farm.
- 46826 FREITAS, H. DE. Rural electrification. (In Portuguese.) *Rev. dos Criadores* 20(2): 35. Feb. 1949. 43.8 R32
- Also in *Cooperativismo [Rio de Janeiro]* 3(33): 16. Mar. 1949. 280.28 C7856
- 46827 GÉLINAS, P. A. L'électricité en aviculture. *Avic. Québécois* 4(2): 7-8. Feb. 1949. 47.8 Av55
- 46828 GINGLES, R. Electricity means new sales. *Northwest Farm Equip. J.* 63(4): 8-9. Apr. 1949. 58.8 F222
- 46829 GREEN, C. J. An analysis of the real cost of TVA power; original and supplemental reports. Washington, Chamber of Com. of the U. S., 1948. 91 p. 335 Un385
- 46830 HAINES, D. B. Contributions women can make to rural electrics should be weighed. *Rur. Electrification* 1949: 26, 32. Feb. 1949. 335.8 N21
- 46831 HIENTON, T. E. Current research in farm electrification. *Rur. Electrification* 1949: 24-25, 46. Feb. 1949. 335.8 N21
- 46832 IRWIN, R. A. Standardized rural substations. *Rur. Electrification* 1949: 26, 60. Apr. 1949. 335.8 N21
- 46833 JOHNSON, R. E. Electric energy works new wonders for Ohio farmers. *Farm Electrification* 3(2): 5-6. Mar./Apr. 1949. 335.8 F224
- 46834 KEIFFER, R. F. A look at [cooperative] member relations. *Rural Electrification* 14(7/8): 8. Feb./Mar. 1949. 173.2 R88Ru
- 46835 MCDONALD, J. They do it the easy way; farmer saves labor with electricity. *Purdue Agr.* 40(6): 5. Mar. 1949. 6 P97
- Equipment on the Purdue Electric Farm, a research-demonstration project.
- 46836 MARTIN, V. Rural electrification—the farmstead genii. *Southwest. Crop & Stock* 3(3): 45. Mar. 1949. 6 So8942
- Chiefly wiring.
- 46837 SHCHUROV, S. Mass electrification of collective farms in the U. S. S. R. (In Russian.) *Interagra* 2: 314-317. 1948. 28 In825
- English summary.
- 46838 STEWART, G. H. Extension cords, care & repair. *Clemson Agr. Col. S. C. Ext. C.* 321, 16 p. Jan. 1949. 275.29 So8E

- 46839 TROW-SMITH, R. Must we wait twenty years? *Farmer & Stock-Breeder* 63: 641. Mar. 15, 1949. 10 F228

## Rural electrification in Great Britain.

- 46840 TURNER, C. N. Rural electrification investigations at fourteen State agricultural colleges. *Farm Electrification* 3(2): 29-34. Mar./Apr. 1949. 335.8 F224
- 46841 U. S. RURAL ELECTRIFICATION ADMIN. Charts and posters on electrical subjects. *Rev. Washington*, 1949. 5 p. 1.933 C38
- 46842 U. S. RURAL ELECTRIFICATION ADMIN. Co-op leaders speak; a report of discussion on co-op education work at co-op management conference, Dec. 8-11, 1948, Washington, D. C. Washington? 1949. 9 p. 1.933 C783
- Electric cooperative associations.
- 46843 U. S. RURAL ELECTRIFICATION ADMIN. Subject matter for proposed wiring school for cooperative electrification advisers. Washington? 1948. 52 p. 1.933 Su12
- 46844 U. S. RURAL ELECTRIFICATION ADMIN. TECHNICAL STANDARDS COMMITTEE. List of materials acceptable for use on REA-financed systems. Washington? 1949. Variously paged. 1.933 L69
- 46845 WAGHORNE, J. H. Rural neutral potentials. (Abs.) *Elect. Engin.* 68: 338. Apr. 1949. 335.8 EL225
- 46846 WALTERS, A. A. Need qualified people as electrification advisers. *Agr. Leaders' Digest* 30(3): 44-45. Mar. 1949. 275.28 Am3
- 46847 WELCH, H. Florida rural electric "just grows." *Rur. Electrification* 7(7): 30-31. Apr. 1949. 335.8 N21
- A cooperative.
- 46848 WICKARD, C. R. Joint effort brings power. *News Farmer Coops.* 15(12): 7, 17-18. Mar. 1949. 166.2 N47
- REA-financed farmer cooperatives.
- 46849 WICKARD, C. R. Rural electrification progress in Oklahoma. Washington? U. S. Bur. Electrification Admin., 1949. 6 p. 1.91 A2W63

## Heating, Lighting, and Radiation

- 46850 CROSBY, J. Orchard heating [smoke] problem up for investigation. *Calif. Farmer, South. Ed.* 190: 292-293. Mar. 26, 1949. 6 C126A
- 46851 GROVES, D. E. Enjoy farm life with modern home heating. *Ohio Farmer* 203(7): 3, 40. Apr. 2, 1949. 6 Oh3
- 46852 MIÈGE, E. Le gaz du fumier. *Inform. Maroc.* 416: 1, 4. Jan. 1, 1949. 281.8 In3
- As fuel.
- 46853 SERS, J. Le chauffage de l'eau par chauffe-eau électrique à accumulation. *Rustica* 22(11): 213. Mar. 13, 1949. 14 R92

## Power Plants, Motors and Engines on the Farm

- 46854 CIOLINA, F. L'hydraulique agricole et l'économie rurale malgache. *Madagascar. Insp. Gén. des Serv. Agr. B. Agr.* 2(7): 19-20. Jan. 1949. 25 M26
- 46855 HERINGER, J. A farmer's experience with power [equipment]. *Calif. Farmer, North. Ed.* 190: 258-259. Mar. 12, 1949. 6 C126
- 46856 LEIDL, E. Die explosionsmotore. *Salzburger Bauer* 4(7): 4-5. (Cont.) Feb. 17, 1949. 19 Sa3
- 46857 MONTGRAIN, C. Un moteur électrique portatif pour chaque ferme. *Foyer Rur. [Montreal]* 8(7): 6. Apr. 1949. 7 F83
- 46858 WICKARD, C. R. Power for progress. Washington? U. S. Rur. Electrification Admin., 1949. 5 p. 1.91 A2W63
- Hydroelectric power.

## Sewage and Waste Disposal

- 46859 BELTON, H. L., and FAIRBANK, J. P. A septic tank for farm homes. *Calif. Agr. Col. Ext. C.* 82, rev., 23 p. Jan. 1949. 275.29 C12C
- 46860 HEPBURN, E. A. Design for a septic closet. *Victoria. Dept. Agr. J.* 47: 29-32. Jan. 1949. 23 V66J



## Telephones

- 46861 AMERICAN TELEPHONE AND TELEGRAPH COMPANY. A million more Bell telephones for rural America. n. p., 1949. 7 p. 335 Am39
- 46862 BEGEMAN, J. The vanishing farm phone. New Repub. 120(13): 10-11. Mar. 28, 1949. 280.8 N42
- 46863 GARRETSON, J. E. What's wrong with rural telephones? Ohio Farm Bur. News 28(8): 12-13. Mar. 1949. 6 Oh34
- 46864 MARTIN, R. Whoop-and-holler phones are doomed. Farmer-Stockman 62(4): 5, 22, 54. (To be cont.) Apr. 1949. 6 Ok45
- 46865 NOBLE, B. I. Why rural telephone legislation? Telephony 136(17): 17-19, 68, 70-71. Apr. 23, 1949. 335.8 T23
- 46866 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Rural telephones. Hearings, 81st Cong., 1st sess., Feb. 14-16, 1949. Washington, 1949. 240 p.

## Water Supply

- 46867 BEATY, H. How good is your water supply? Iowa Farm Sci. 3(9): 8-9. Mar. 1949. 275.28 Io94
- 46868 BROOKS, W. W. Electric water system. Dak. Farmer 69(6): 6, 55. Mar. 19, 1949. 6 D14
- 46869 BROOKS, W. W. Fatter cattle, better dairy with an electric water system. New Agr. 31(6): 9. Mar. 1949. 66.8 Su32
- 46870 BROOKS, W. W., and PFEIFFER, C. W. They're making money out of water. Ky. Farmer 85(3): 10, 12. Mar. 1949. 6 F2237
- Farm water system.
- 46871 EGGERS, H. W. T. Establishing a farm water supply system. New Zeal. J. Agr. 78: 65-71, 73-74. Jan. 15, 1949. 23 N48J
- 46872 HOBGOOD, P., and ALLEN, W. S. How's your water supply—good, bad, or indifferent? Prog. Farmer, Tex. Ed. 64(4): 18, 121. Apr. 1949. 6 T311
- 46873 REE, W. O. Hydraulic characteristics of vegetation for vegetated waterways. Agr. Engin. 30: 184-187, 189. Apr. 1949. 58.8 Ag3
- 46874 SERS, J. Consolidez votre puits d'une façon simple. Rustica 22: 193. Mar. 6, 1949. 14 R92
- 46875 SERS, J. Elevez l'eau de votre ruisseau au moyen du bélier hydraulique. Rustica 22: 255. Mar. 27, 1949. 14 R92
- 46876 SIBLEY, H. A new well with an old look. Canad. Homes & Gard. 26(4): 58. Apr. 1949. 296.8 C16
- 46877 TINDALL, C. Wells and pumps and water systems. Mo. Ruralist 90(6): 4, 20-21. Mar. 26, 1949. 6 R8891

AGRICULTURAL PRODUCTS: PROCESSING,  
DISTRIBUTION, AND STATISTICS

## GENERAL

- 46878 ARE WE heading toward starvation? Platform, 1948, 23 p. Nov. 1948. 280.8 P697
- 46879 ASSOCIAZIONE PER LO SVILUPPO DELL'INDUSTRIA NEL MEZZOGIORNO. Report of the Board of Directors on the 1947 balance sheet. Rome, 1948. 61 p. 280.9 As73Ra
- Includes report of the various agricultural products industries.
- Library of the U. S. Department of Agriculture has also the Italian edition (280.9 As73R).
- 46880 BOGOTÁ. INSTITUTO NACIONAL DE ABASTECIMIENTOS. DEPARTAMENTO DE ESTUDIOS ECONÓMICOS Y COORDINACIÓN. Estudio sobre la conservación de alimentos en Colombia. Bogotá? 1949. 31 p. 389 B6322
- 46881 BREMEN. HANDELSKAMMER. Bericht über das Jahr 1948. 1948. 120 p. 287 B753
- Contains reports on the agricultural products industries.
- 46882 BUTER, J. Foodstuffs & luxuries. Holland Shipping & Trading, Spec. Fair No., p. 44, 46. Feb. 1949. 286.8 H713
- 46883 COHEN, R. M. World conditions changing. Butchers' Advocate 125(16): 8-9. Apr. 20, 1949. 286.85 B97
- Food outlook.

46884 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. FAO reports on 1948/49 crop prospects. Food and Agr. Organ. United Nations. I/Misc./ 46, 6 p. Aug. 12, 1948. 389.9 F735Im

46885 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. More food—the first requisite for peace. Food and Agr. Organ. United Nations. I/Misc./ 41, 7 p. May 13, 1948. 389.9 F735Im

46886 GREW, R. Production of food grains in India still short of domestic demand. Foreign Trade 5: 704-707. Apr. 2, 1949. 286.8 C162

Discusses the various agricultural products industries.

46887 HARDING, T. S. Food, soils and people. Amer. J. Econ. & Sociol. 8: 222. Apr. 1949. 280.8 Am393

Population in relation to food supply.

46888 HUXLEY, A. The double crisis; what can be done about world population that threatens to outstrip food resources? Sci. News Let. 55: 199-202. Mar. 26, 1949. 470 Sci24

46889 KENT-JONES, D. W. Bread and its influence on history. Milling 112: 332-336. Apr. 2, 1949. 298.8 M622

46890 LANGER, J. Beschaffenheit des getreides, der speisehülsenfrüchte und olsaaten der ernte 1948. Versorgung 3: 90. Jan. 1949. 280.8 V61

Russian Zone of Germany.

46891 MORRISON, R. W. Our part in feeding the world. Canad. Dairy & Ice Cream J. 28(3): 92, 94, 98, 100. Mar. 1949. 44.8 C162

46892 OLSSON, H. International supply problems. (In Swedish.) Kooperatören 36: 27-31. Jan. 31, 1949. 280.28 K832

Food.

46893 PAGANI, L. For a more exact interpretation of the norms of laws on workable statutes relative to mutual companies for the construction of collective factories destined for the conservation and distribution of goods and agricultural raw materials. (In Italian.) Agr. delle Venezie 2: 1029-1036. Nov./Dec. 1948. 16 Ag826

46894 SÄKK, K. The world food supply. (In Swedish.) Sweden. Kommerskol. Jordbruksekonom. Uppgifter 11: 31-42. Feb. 1949. 257.3 J76

46895 SCHEFFER, C. H. J. India's food problem. (In Dutch.) Econ.-Statist. Ber. 34: 234-236. Mar. 23, 1949. 280.8 Ec722

English summary, p. 227.

46896 SEYMOUR, E. A. Food in Newfoundland. Canad. Food Indus. 20(4): 18-19, 21. Apr. 1949. 286.83 C166

46897 SKROBANSKIĬ, G. G., and others. Tovarovedenie pishchevykh produktov [Science of food products]. Moskva, Gostorgizdat, 1948. 527 p. 389 Sk6

A. A. Migulin, V. I. Rubtsov, V. G. Smirnov, M. G. Annenkov, P. E. Dudnik, A. V. Mil'skiĭ, N. K. Man'kovskaiā, and L. B. Kul'vanovskii, joint authors.

46898 STAMMLER, H. Die versorgungslage nach der ernte 1948. Versorgung 3: 65-66. Dec. 1948. 280.8 V61

Russian Zone of Germany.

46899 STITT, R. E. Mindanao: key to the Philippines' future. J. Geog. 48: 150-160. Apr. 1949. 278.8 J82

Includes agricultural products.

46900 TALBOTT, P. Research for the baking industry. Amer. Baker 17: 44, 46, 52, 54, 56. Jan. 1949. 389.8 Am36

Research under the Research and Marketing Act.

46901 TAYLOR, C. C. Food supply in India. Foreign Agr. 13: 57-60. Mar. 1949. 1.9 Ec7For

46902 TELXEIRA, I. Food legislation and nutrition hygiene. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 175-184. 1948. 389.9 R47

46903 U. S. DEPT. OF STATE. OFF. OF RESEARCH AND INTELLIGENCE. Japan's food, beverage, and tobacco position 1928-36. Washington? 1948. 93 p. (OIR Rpt. 4126) 150.1 J27

46904 U. S. INSTITUTE OF INTER-AMERICAN AFFAIRS. La Misión de Producción Alimenticia del Instituto de Asuntos Inter-Americanos de Washington, D. C. Lima, 1948. 36 p. 173.3 In83Mi

46905 VENEZUELA. DIRECCION DE AGRICULTURA. DEPARTAMENTO DE QUÍMICA. Proposición para un mejor aprovechamiento de las reservas alimenticias en Venezuela, by W. Jaffe. Caracas, 1948. 18 p. 389.7 V5532



- 46906 WALKER, C. L., and BOLLES, B. Man and food, the lost equation? Foreign Policy Assoc. Headline Ser. 73, 63 p. Jan./Feb. 1949. 280.9 F76H
- 46907 ZIMMERMAN, M. M. Surveying Europe's food picture. 3. Super Market Merchandising 14(4): 90, 92-98. Apr. 1949. 389.8 Su7

## ANALYSIS AND COMPOSITION

- 46908 BUTTERFIELD, J. Food chemistry at U. of Toronto. Canad. Chem. & Process Indus. 33: 225-226. Mar. 1949. 381 C16
- 46909 CHAVES, J. M., and PECHNIK, E. Assai, one of the basic foods of Amazonia. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 237-240. 1948. 389.9 R47
- Analysis.
- 46910 DEXTER, S. T. A modified wet and dry-bulb thermometer technique for determining the moisture content or storage qualities of so-called dry materials. Mich. Agr. Expt. Sta. Q. B. 31: 275-286. Feb. 1949. 100 M58S
- 46911 FERNÁNDEZ, O. Estudio químico de varias féculas. 4. El fósforo en las dextrinas residuales. Ion 8: 790-792, 807. Ref. Dec. 1948. 385 Io6
- 46912 FORSTER, A. Die diastase-, zucker- und alkoholbildung durch amylomyces Deiemar. Versuchsanst. f. das Gärungsgewerbe. Mitt. 1949(1/2): 23-24. Jan./Feb. 1949. 390.08 V67
- 46913 HARRIS, L. J., and others. Méthodes chimiques de dosage des vitamines. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 3: 25-48. Ref. 1949. 389.8 An73
- L. W. Mapson, E. Kodicek, T. Moore, and V. H. Booth, joint authors.
- 46914 MASSACHUSETTS INSTITUTE OF TECHNOLOGY. DEPT. OF FOOD TECHNOLOGY. Proposal for the analysis of plant foods in strategic areas. Cambridge, Mass., 1948? 1 v. 389 M383
- 46915 MEYER, K. H., and others. Starch solutions and pastes and their molecular interpretation. J. Phys. & Colloid Chem. 53: 319-334. Ref. Mar. 1949. 381 J822
- P. Bernfeld, R. A. Boissonnas, P. Gürtler, and G. Noelting, joint authors.
- 46916 PECHNIK, E., MATTOSO, I. V., and CHAVES, J. M. Contribution to standardization of methods for determining vitamins in foods. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 185-205. Ref. 1948. 389.9 R47
- 46917 PROCTOR, B. E. Bacterial evaluation of commercially prepared frozen precooked foods. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 510. 1949. 442.9 In83
- Includes discussion.
- 46918 SUGIYAMA, H., and DACK, G. M. Some studies on the heat resistance of spores of clostridium botulinum. (Abs.) Natl. Provisioner 120(15): 39. Apr. 9, 1949. 286.85 N21
- 46919 TESSIER, H. A dynamometer for determining depth of freezing in foods. Canad. J. Res. Sect. F, Technol. 27: 47-48. Feb. 1949. 470 C16F

## CONSUMPTION AND UTILIZATION

- 46920 GAJJAR, I. M., and others. Agricultural and industrial wastes as fortifying supplements for industrial fermentations. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 551-552. 1949. 442.9 In83
- S. P. Mistry, B. A. Mande, and M. Sreenivasaya, joint authors.
- Includes discussion.
- 46921 RAMAGE, W. D., and THOMPSON, J. H. Producing yeast from crop residues. Chemurg. Digest 8(4): 17-20. Apr. 1949. 381 N213Na
- 46922 SCHOFFELMAYER, V. H. Food revolution? Bacterial conversion of carbohydrates to protein leads agro-biologists to predict startling results. Chemurg. Digest 8(4): 10. Apr. 1949. 381 N213Na
- 46923 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family food consumption in Buffalo New York, winter 1948. U. S. Bur. Human Nutr. and Home Econ. Food Consumption Surveys. Prelim. Rpt. 4, 30 p. Feb. 28, 1949. 1.982 A2F738
- 46924 WILLAMAN, J. J., and ESKEW, R. K. Utilization of vegetable wastes. Chemurg. Digest 8(4): 15-17. Apr. 1949. 381 N213Na

## DISTRIBUTION, MARKETING, AND TRANSPORTATION

- 46925 BATTARD, J. L'organisation des entreprises américaines du commerce de gros en alimentation. Vives 4(3): 9-14. Mar. 1949. 389.8 V832
- 46926 CALE, E. G., and ZAGLITS, O. Intergovernmental agreements approach to the problem of agricultural surpluses. Iowa Law Rev. 34: 230-250. Jan. 1949. L9 Io9
- 46927 CONTROL of agricultural surpluses. Fed. Reserve Bank San Francisco. Monthly Rev. 1949: 2-6. Jan. 1949. 284.8 F31S
- 46928 COUTURE, A. En marge du futur marché central des vivres à Montréal. B. des Agr. 45(4): 9. Apr. 1949. 7 B872
- 46929 EDWARDS, C. M. A roadside sign. N. Y. Agr. Col. Ext. Leaflet 14, 4 p. June 1948. 275.29 N48Fom
- 46930 FRANCE. DIRECTION GENERALE DES DOUANES. Tableau général de la navigation maritime, année 1945. 1947, i. e. 1948. 275 p. 260 D74Tn
- 46931 GARCÍA, A. L. Algunos problemas de las cooperativas de mercadear. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 38, 7 p. Jan. 1949. 275.29 P962
- 46932 GUSLER, G. 100 years of markets. Farmer [St. Paul], Gen. Ed. 67(7): 114. Apr. 2, 1949. 6 F2211
- 46933 HENNING, G. F. What's beyond the co-op label? Coop. Digest 9(10A): 52-54. Apr. 15, 1949. 280.28 C7896
- 46934 HENRY, R. S. Railroad freight rates, prices and wages—1939-1948; a brief study in relationships. West. Grower & Shipper 20(4): 19. Mar. 1949. 280.38 W52
- 46935 HORTON, H. D. The truck operators' problems and prospects for 1949. n. p., 1949. 7 p. 289.4 H782
- 46936 LAZO, H. The value and service of the food broker. Wholesale Grocer News 23(12): 26, 71. Mar. 1949. 286.83 W622
- 46937 LUTZ, A. W. The food broker's function. Wholesale Grocer News 23(12): 25. Mar. 1949. 286.83 W622
- 46938 NOLL, A. M. Widening farm-to-market roads by force-account. Pub. Works 80(3): 33-34. Mar. 1949. 290.8 M922
- 46939 PEERY, C. M. A farm sign will bring business. East. Breeder 10(11): 49, 51. Apr. 1949. 49 V81
- 46940 ROHR, V. Was soll der gespaltene markt? Landw. Wchnbl. f. Westfalen u. Lippe 106: 65-66. Jan. 29, 1949. 18 L2346
- 46941 SCHAAL, A. Gedanken zur gegenwärtigen lage. Württemberg. Wchnbl. f. Landw. 116: 138. Mar. 12, 1949. 18 W96
- Marketing of agricultural products.
- 46942 SCOTTON, M. The transportation problem in agriculture. (In Italian.) Georgofili [Firenze] (ser. 6) 12: 62-81. Ref. Jan./June 1948. 507 F51
- 46943 TRACEY, M. B. The present status of frozen food marketing. J. Mktg. 13: 470-480. Apr. 1949. 280.38 J82
- 46944 UNERTL, F. Agrarmarktlenkungsgesetze als NS-nachläufer. Deut. Viehhandel 4(3): 5. Feb. 15, 1949. 49 D482

## GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

- 46945 AMERICAN MEDICAL ASSOCIATION. COUNCIL ON FOODS AND NUTRITION. General decisions on foods and food advertising. 60 p. Jan. 1948. 389.9 Am322
- 46946 ASCHEHOUG, V. Spore-forming anaerobes as spoiling agents in canned foods. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 506-507. 1949. 442.9 In83
- 46947 AUBÖCK, K. Frostschäden an konservierten und ihre behandlung. Pflug 2: 29. Feb. 1949. 19 P48
- Fruit, vegetable, and meat preserves.
- 46948 CRUESS, W. V., and PEN HO, F. Studies of frozen food samples bought in the open market. 2. Quick Frozen Foods 11(9): 70-74. Apr. 1949. 389.8 Q4
- 46949 GRIMES, M. Food poisoning caused by members of the Salmonella, Staphylococci and Clostridia groups. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 507-508. 1949. 442.9 In83



- 46950 HILL, C. Bad food isn't labelled 'poison.' Better Health 22: 99-100. Apr. 1949. 449.8 B46
- 46951 HINTON, C. L. Food laws in South America. 3-4. Food [London] 18: 71-72, 118-119. Mar.-Apr. 1949. 389.8 F738
- 46952 LEGROUX, R., and LEVADITI, J. C. Les intoxications alimentaires en France pendant l'occupation (intoxication botulique et intoxication histaminique). (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 508-510. 1949. 442.9 In83
- 46953 MANGO, A. Control of quality and cleanliness of food products. (In Italian.) Gior. d'Ital. Agr. 32(9): 1. Feb. 26, 1949. 16 G433
- 46954 MOTTLEY, J. J. Food poisoning outbreak. N. J. Dept. Health. Pub. Health News 30: 98-99. Mar. 1949. 449.7 N46P  
Staphylococcus aureus indicated.
- 46955 MUDDIMAN, G. W. Quality in quick-frozen products. (Excerpts.) Mod. Refrig. 52: 63, 68. Mar. 1949. 295.8 M72
- 46956 ORR, D. E. Meat and food inspection service. Vet. Rec. 61: 161-162. Mar. 26, 1949. 41.8 V641  
Great Britain.
- 46957 PLAZIKOWSKI, U. Further investigations regarding the cause of food poisonings. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 510-512. 1949. 442.9 In83  
Includes discussion.
- 46958 RUIZ, I. Rapport sur les travaux de la commission constituée par la société des experts-chimistes de France pour une révision de la législation concernant la coloration des denrées alimentaires. Ann. des Falsif. 41: 520-528. Oct./Dec. 1948. 389.8 An72

## PACKING AND PACKAGING

- 46959 STERN, W. The package engineering handbook. Rev. Chicago, Bd. Prod. Pub. Co., 1949. 175 p. 280.3 St43  
Includes discussion of packaging research at the U. S. Forest Products Laboratory, Madison, Wisconsin.

## PRICES, PRICE CONTROL, AND RATIONING

- 46960 AIKEN, G. D. The case for flexible price supports. Co-op Grain Q. 7(1): 25-28. Spring 1949. 280.28 C7898
- 46961 AIKEN, G. D. Dangers in farm support program. Com. & Financ. Chron. 169: 1296, 1322-1323. Mar. 24, 1949. 286.8 C73
- 46962 BASSIE, V. L. Price level prospects. (Abs.) Ill. Farm Econ. 164/165: 773-777. Jan./Feb. 1949. 275.28 IL5
- 46963 BEAN, L. H. Can we afford to lower farm prices? Co-op Grain Q. 7(1): 8-10. Spring 1949. 280.28 C7898
- 46964 BLOMEYER, A. Gedanken zum "gespaltenen markt." Landw. Wchnbl. f. Westfalen u. Lippe 106: 134-136. Feb. 19, 1949. 18 L2346
- 46965 BUTZ, E. L., and BOTTUM, J. C. High or low farm price supports? Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers 1949: 1-3, 7. Mar. 23, 1949. 275.29 In2Em
- 46966 CALIFORNIA. FEDERAL-STATE MARKET NEWS SERVICE. Market and farm price averages on hay, grain and feed and butter in California (Historical series). Los Angeles. 1948 summary. 1949? 9 p. 284.39 C12
- 46967 CANADIAN FEDERATION OF AGRICULTURE. Brief on farm prices presented to the Royal Commission on Prices. Ottawa, 1948. 16 p. 284.3 C168B
- 46968 CANADIAN FEDERATION OF AGRICULTURE. Farm prices and food costs. Ottawa, 1948? 6 p. 284.3 C168F  
Interview with H. H. Hannam.
- 46969 CERCLER, R. L'évolution de l'indice des prix. Monit. Agr. 2(63): 12. Mar. 27, 1949. 14 M744  
France.
- 46970 CHEN, T. C., and DOAK, T. E. Wartime prices in China. N. Y. Agr. Col. Farm Econ. 167: 4317-4319. Mar. 1949. 280.8 C812
- 46971 CORONAT, F. La baisse des prix agricoles en France. Agence France-Presse. Inform. et Doc. 229: 6-8. Mar. 5, 1949. 280.9 Ag3
- 46972 HATLEY, H. N. "Judas" farm organizations fatten on the farmer; then stab him in the back by asking for low parity! Union Farmer 4(4): 5. Apr. 1949. 280.28 Un35
- 46973 HOPE, D. E. C. How high are food prices? Ontario Milk Prod. 24: 306-308. Apr. 1949. 44.8 On8
- 46974 HOW NEW farm plan works; subsidies to keep incomes up as prices fall. U. S. News 26(15): 43-45. Apr. 15, 1949. 280.8 Un33A  
A special report.
- 46975 LEROY, L. La stabilisation des prix à un niveau raisonnable est-elle possible? Agr. du Sud-Est (n. s.) 56(6): 1-2. Mar. 27, 1949. 14 Ag88  
France.
- 46976 LINGHAM, F. J. The meaning of farm parity. Amer. Aff. 11: 103-104. Apr. 1949. 280.8 N214E
- 46977 LORENZO, M. DI. Recent decrease in prices of agricultural products on the United States market. (In Italian.) Congiuntura Econ. 4: 36-40. Feb. 28, 1949. 280.8 C7635
- 46978 MACHADO, A. DE O. Justification of prices for agricultural products. (In Portuguese.) Soc. Rural Bras. Rev. 28: 14-17. Jan. 1948. 9.2 B733
- 46979 NATARAJAN, B. Stabilisation of agricultural prices. Agr. Econ. 1: 17-20. Nov. 1948. 281.8 Ag832  
India.
- 46980 OGG, W. E., and MALONE, C. C. What is parity? Farm Policy Forum 2(2): 1-4. Apr. 1949. 281.8 F7224
- 46981 PARVIN, D. W., and REDMAN, J. C. Farm prices [in Mississippi] drop 4 percent below January levels. Miss. Farm Res. [Miss. Sta.] 12(3): 1, 8. Mar. 1949. 100 M69Mi
- 46982 ROHR, H. J. VON. Sind die handelsspannen die wurzel des zeitübels "preistreiberei." Deut. Viehandel 3(21): 3. Nov. 15, 1948. 49 D482
- 46983 SCAGLIARINI, A. The present lack of balance between costs and prices. (In Italian.) Gior. d'Ital. Agr. 32(7): 1. Feb. 12, 1949. 16 G433
- 46984 SERANDOUR, P. L'harmonisation des prix. Monit. Agr. 2(61): 3. Mar. 13, 1949. 14 M744  
France.
- 46985 SHAW, M. S. A proposal to stabilize the price level through cooperatives. Chin. Coop. 5(2): 6-10. Sept. 1948. 280.28 C442
- 46986 SHIELDS, R. H., and SHULMAN, E. M. Federal price support for agricultural commodities. Iowa Law Rev. 34: 188-213. Jan. 1949. L9 Io9
- 46987 SOTH, L. Conflicts in farm-price policy. Antioch Rev. 9: 60-66. Mar. 1949. 280.8 An82
- 46988 STEDMAN, A. D. Who should set farm prices? High or low. G T A Digest 9: 49-51. Jan. 1949. 280.28 G11
- 46989 TSUI, R. T. Price movement in China following the economic reform. N. Y. Agr. Col. Farm Econ. 167: 4305-4306. Mar. 1949. 280.8 C812
- 46990 U. S. CONGRESS. JOINT COMMITTEE ON THE ECONOMIC REPORT. The consumers' price index. Report...on The consumers' price index of the United States Bureau of Labor Statistics. Washington, 1949. 20 p. 284.3 Un396C
- 46991 WALDHÄUSL, F. Die grundlagen der agrarpreisbeurteilung in Österreich. Bodenkultur 2: 259-270. 1948. 19 B635
- 46992 WEBSTER, L. A. Price supports. Farm Bur. Mass. 1949: 11, 33. Mar. 1949. 275.293 Mass.
- 46993 WELLS, O. V. What you pay for what you get makes parity. Co-op Grain Q. 7(1): 12-18. Spring 1949. 280.28 C7898
- 46994 WORKING, E. J. Factors determining postwar price trends. Ill. Farm Econ. 164/165: 778-783. Jan./Feb. 1949. 275.28 IL5

## PROCESSING AND STORAGE

- 46995 ALSTRAND, D. V., and ROYCE, R. The practical value of careful retort operation. Canning Trade 71 (39): 7-8, 19. Apr. 18, 1949. 286.83 T67
- 46996 BARNEBY, T. D. El almacenaje de comestibles percederos. Hacienda 44(3): 80. Mar. 1949. 6 6 H11
- 46997 BELLINI, B. Influence of impurities in the salt on the brining process. (In Italian.) Indus. Ital. delle Conserve 23: 33-36. Apr./June 1948. 389.8 In23



- 46998 BENESH, W. J. Cannery sanitation problems as seen by a Wisconsin inspector. *Canner* 108(16): 15-16, 36, 38. Apr. 16, 1949. 286.83 C16
- 46999 BERNFUS, E. Konservierung landwirtschaftlicher Güter durch Kälteeinwirkung! Versuchsanst. f. das Gärungsgewerbe. *Mitt.* 1948(11/12): 4-6; 1949(1/2): 5-8. (To be cont.) Nov./Dec. 1948-Jan./Feb. 1949. 390.08 V67
- 47000 BERTARELLI, E. Italian food problems and industrial production of preserved foods. (In Italian.) *Indus. Ital. delle Conserve* 23: 11-14. Jan./Mar. 1948. 389.8 In23
- 47001 THE CALCULATION of the rate of freezing and thawing of foodstuffs. *Mod. Refrig.* 52: 52-55. Mar. 1949. 295.8 M72
- From the Low Temperature Research Station, Cambridge.
- 47002 CANADA. BUR. OF STATISTICS. AGRICULTURE DIV. Summary of cold storage reports 1948; holdings of food commodities in cold storage and other warehouses and in dairy factories in Canada. 1949. 29 p. 295.9 C16S
- 47003 CASTRO, J. DE. Dehydration of foods. (In Portuguese.) *U. do Brasil. Inst. de Nutr. Trab. e Pesquisas* 1: 47-57. 1948. 389.9 R47
- 47004 CIANI. New biological directions for a better preservation of foods. (In Italian.) *Prog. Vet.* 3: 448. Dec. 15, 1948. 41.8 P942
- 47005 COLE, R. J. The drying of solid gel food products. *Food Manufacture* 24: 155-158. Apr. 1, 1949. 389.8 F736
- 47006 CROCI, L. Diacetyl and butter aromas. (In Italian.) *Riv. Ital. Essenze, Profumi, Piante Off., Olii Veg., Saponi* 31: 66. Feb. 15, 1949. 308.8 R52
- 47007 CURTIS, L. Food preservation in Alabama. *Ala. Polytech. Inst. Agr. Ext. C.* 154, rev., 62 p. Apr. 1948. 275.29 AL1C
- 47008 DAULATRAM, J. Possibilities of refrigeration in India. *Indian Farming* 9: 355-357. Sept. 1948. 22 In283
- 47009 DUNWODY, A. B. Enzymic action in the canning process. *Canning Trade* 71(14): 7. Oct. 25, 1948. 286.83 T67
- 47010 FINZI, E. Drying of food substances by infrared radiation. (In Italian.) *Alimenti* 5: 14-16. Jan. 1949. 389.8 AL44
- 47011 FORSTER, A. VON. Fragen aus dem amylogärverfahren. Versuchsanst. f. das Gärungsgewerbe. *Mitt.* 1949(1/2): 25-27. Jan./Feb. 1949. 390.08 V67
- 47012 GENTRY, J. L. Sound foundations for a sound canning industry. *South. Canner & Packer* 10(3): 10-11, 23-24. Mar. 10, 1949. 389.8 So82
- 47013 GITELMAN, P. First food technology graduates. *Canad. Food Indus.* 20(4): 22-23. Apr. 1949. 286.83 C166
- 47014 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Preserves from the garden. *Gt. Brit. Min. Agr. and Fisheries. Growmore B.* 3, ed. 4, 24 p. 1948. 10 G79Gro
- 47015 GROSS, T. A. Tendencies to modernization of refrigeration. *Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib.* 27: 34-37. 1948. 44.9 V593
- 47016 HANSON, D. N. Principles of still design. *Fruit Prod. J. & Amer. Food Mfr.* 26: 237-242, 248, 251. Apr. 1949. 389.8 F94
- 47017 HILL, T. N. S. A preserver tells cold packers what's needed. *Canner* 108(12): 18-19. Mar. 19, 1949. 286.83 C16
- 47018 HOWE, P. E. Food storage and preservation in the tropics. *U. S. Dept. State. Internat. Organ. & Conf. Ser. I. Gen.* 5: 1189-1195. Ref. 1948. 150 In822
- 47019 JOHNS, C. K. Yeast fermentation provides basis for leading food industries. *Food Canada* 9(3): 22, 24-26. Mar. 1949. 389.8 F7323
- 47020 JØRGENSEN, A. P. C. Micro-organisms and fermentation. Ed. 15, rewritten by A. Hansen. London, Griffin, 1948. 550 p. 390 J76Mi
- 47021 KRAMER, R. C. Do you rent a locker? *Mich. Farm Econ.* 75: 2. Mar. 1949. 275.29 M58A
- Costs.
- 47022 LAMBERT, L. B. Instruments—and the canning process. *Food Indus. So. Africa* 1(11): 30-34. Mar. 1949. 389.8 F7372
- 47023 LARSEN, N. C. Some flavor problems in food manufacture. *Confectionery-Ice Cream World* 41(13): 13, 15. Apr. 1, 1949. 389.8 C767
- 47024 LENHART, J., and COSENS, K. W. Molds and bacteria curbed in immersion-freezing. *Food Indus.* 21: 442-444. Apr. 1949. 389.8 F737
- 47025 MATHOT, H. J. Social and economic significance of quick freezing in Indonesia. (In Dutch.) *Econ. Weekbl. v. Indonesië* 15: 155-156. Feb. 12, 1949. 280.8 Ec76
- 47026 MOORE, E. E. Factors affecting success in preserving. *New Zeal. J. Agr.* 78: 93-95. Jan. 15, 1949. 23 N48J
- 47027 NASH, G. Ulster's food processing industry. (Extr.) *Ulster Farmer* 50: 28-29. Jan. 1949. 10 UL7
- 47028 NATIONAL CANNERS ASSOCIATION. Secretary's annual report, 1948. 1949. 50 p. 389.9 N214Ans
- 47029 NELSON, P. Do home freezers pay? *Va. Farm Econ.* 118: 1264-1266. Feb. 1949. 275.29 V813
- 47030 O'REILLY, M. V. Quick frozen foods. *Austral. Inst. Anat. Food & Nutr. Notes & Rev.* 6: 5-10. Jan./Feb. 1949. 389.9 Au73
- 47031 ROBERTSON, J. T. C. Quick frozen food. *Milk Indus.* 29(10): 46-52. Apr. 1949. 44.8 M593
- 47032 SIEGEL, M. Control of spoilage through sanitation. *Canner* 108(13): 16, 18, 22. Mar. 26, 1949. 286.83 C16
- Similar title in *Canning Trade* 71(40): 7-8. Apr. 25, 1949. 286.83 T67
- 47033 STILES, J. A. Processing of food and beverages main Venezuelan industries. *Foreign Trade* 5: 644-647. Mar. 26, 1949. 286.8 C162
- 47034 TAYLOR, H. P. The problems of the small canner. *Canner* 108(14): 15-16. Apr. 2, 1949. 286.83 C16
- Also in *South. Canner & Packer* 10(4): 10-11, 20. Apr. 11, 1949. 389.8 So82
- 47035 THISTLE, M. W. History and work of the Canadian Committee on Food Preservation. 1. *Food Canada* 9(3): 11-13. Mar. 1949. 389.8 F7323
- 47036 VAN BLARICOM, L. O., and others. Freezing foods for home use. *Clemson Agr. Col. S. C. Ext. B.* 110, 28 p. Jan. 1949. 275.29 So8F
- J. B. Cooper; R. F. Wheeler, K. F. Warner, and M. Martin, joint authors.
- 47037 VENEZUELA. DIRECCIÓN DE GANADERÍA. Conservación de los alimentos por el frío; inspección veterinaria de las carnes y pescados congelados, by C. Ruiz Martínez. Caracas, 1948. 80 p. 389.3 V55
- 47038 WARRINGTON, S. T., and WILKINS, P. C. Co-operative frozen-food locker plants. *Mod. Farmer* 22: 9, 12. Feb. 15, 1949. 6 M725
- 47039 WORD, L. How about that home freezer unit? *West Live Stock* 34(7): 46-47. Feb. 1949. 49 W523

## STATISTICS

- 47040 ALBERTA. AGRICULTURAL EXTENSION SERVICE. Estimated gross value agricultural production and estimated cash income from sale of farm products in Alberta for 1948. Mar. 1949. 3 p. 253.41 Ag82
- 47041 ALGERIA. DIRECTION DE L'AGRICULTURE. Renseignements statistiques agricoles, année 1947. 1948? 7 p. 270 AL32R
- 47042 ALLIED COMMISSION FOR AUSTRIA. U. S. ELEMENT. Austria, a geographic survey. n. p., 1948. 231 p. 277.177 AL5
- Includes food and agriculture and forestry statistics.
- 47043 AUSTRALIA. BUREAU OF CENSUS AND STATISTICS. Report on food production and the consumption of foodstuffs and nutrients in Australia, 3, 1947/48. Mar. 14, 1949. 42 p. 389.9 Au76
- 47044 BOND, M. C. Agricultural production, relative importance of States—1937-46 av. & 1937-41 av. N. Y. *Agr. Col. A. E.* 695, 21 p. Mar. 1949. 281.9 C81
- Statistics.
- 47045 BRAZIL. COMISSÃO CENSITÁRIA NACIONAL. Recenseamento geral do Brasil (1.º de Setembro de 1940). Sinopse de censo agrícola; dados gerais [General census of Brazil, September 1, 1940]. Synopsis of the census of agriculture, general information]. Rio de Janeiro, 1948. 47 p. 255.3 C332Ra
- Includes agriculture and trade.



- 47046 BRAZIL. COMISSÃO CENSITARIA NACIONAL. Recenseamento geral do Brasil (1.º de Setembro de 1940). Sinopse do censo comercial; dados gerais [General census of Brazil (September 1, 1940). Synopsis of the census of commerce; general information]. Rio de Janeiro, 1948. 73 p. 255.3 C332Rc  
Contains statistics of agriculture and trade.
- 47047 BUTOVSKÝ, B. Results of the farm accountancy statistics in Czechoslovakia. (In Czech.) Zeměděľ. Úst. Účet.-Sprav. ČSR. Žpráv. 11: 61-66. 1948. 266.8 C993  
Summary in Russian, French, and English.
- 47048 CANADA. STATISTICIAN. Annual report, 1947/48. 1948. 27 p. 253 St2A  
Includes work in agriculture.
- 47049 COCCO, E. DI. Probability, forecast, and normality in appraisal theory. (In Italian.) Genio Rur. 12: 3-15. Jan./Feb. 1949. 281.8 R522  
Elements in market and other values in agriculture.
- 47050 ECONOMISCHE gegevens over Indonesië ultimo 1948 [Economic information on Indonesia ultimo 1948]. Econ. Weekbl. v. Indonesië 15(4), 96 p. Jan. 22, 1949. 280.8 Ec76  
Includes agricultural statistics.
- 47051 FILONZI, A. Agricultural accounting statistics in European countries. (In Italian.) Riv. di Econ. Agr. 3: 633-640. 1948. 281.8 R52  
English summary.
- 47052 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Program for the 1950 world census of agriculture. Washington, 1948. 96 p. 251 F73P
- 47053 GAUDENTI, A. C. The second general census of agriculture. (In Italian.) Coltivatore 5(13): 1. Apr. 3, 1949. 16 C722
- 47054 GUATEMALA. DIRECCIÓN GENERAL DE ESTADÍSTICA. Síntesis geográfico-estadística. Rio de Janeiro, 1948. 74 p. 254 G93S  
Includes discussion of agricultural products.
- 47055 HADARY, G., and SAI, K. Handbook of agricultural statistics of Iran. Tehran, Bank Melli Iran Press, 1949. 139 p. 269 P434
- 47056 INDIA. DEPT. OF COMMERCIAL INTELLIGENCE AND STATISTICS. Estimates of area and yield of principal crops in India 1941-42, 1942-43 and 1943-44. 1948. 30 p. 269.5 St2A2
- 47057 JACOBSEN, A. P. Crop production under present import conditions. (In Danish.) Dansk Landbr. 68: 111-113, 125-128. Mar. 3-10, 1949. 280.28 V91
- 47058 LEWIS, J. N. Value of rural production. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 2: 13-15. Jan. 1949. 281.9 Au73
- 47059 LIEBSCHER, H. Anbauplan und bodenbenutzungserhebung. Kärntner Bauer 99: 85-86. Mar. 15, 1949. 19 K14  
Area allotments for field crops.
- 47060 LOS ANGELES COUNTY CHAMBER OF COMMERCE. AGRICULTURAL DEPT. State statistical supplement and review, 1948. 1949. 15 p. 252.09 L893S
- 47061 MANITOBA. DEPT. OF AGRICULTURE AND IMMIGRATION. Report on crops, live stock, etc. produced in Manitoba in 1948. 1949. 56 p. 7 M31B
- 47062 MANUFACTURERS RECORD. Blue book of southern progress, 1949. 1949. 172 p. 252 M312  
Includes agricultural statistics.
- 47063 MERCHANT, C. H., and MCKENNEY, J. E. Adjustments in Maine agriculture and farm prices; a graphical and statistical presentation. Maine. Agr. Expt. Sta. Misc. P. 615, 69 p. Dec. 1948. 100 M28S
- 47064 MISSOURI. STATE DEPT. OF AGRICULTURE. Missouri farm census by counties 1947. 1948? 26 p. 252.47 Ag8
- 47065 NICARAGUA. DIRECCIÓN GENERAL DE ESTADÍSTICA. Monografía de Managua; religión, arte, gobierno. Managua, 1948. 55 p. (Estudios Especiales) 254 N514Mo  
Includes agricultural statistics.
- 47066 NORTH DAKOTA. DEPT. OF AGRICULTURE AND LABOR. Compiled agricultural statistics of North Dakota for the period from July 1, 1946 to June 30, 1948. 1948. 143 p. 2 N812R
- 47067 PANSE, V. G., and SUKHATME, P. V. Crop surveys in India. I. Indian Soc. Agr. Statis. J. 1: 34-58. 1948. 22 In292
- 47068 PEARSON, F. A., MYERS, W. I., and DOAK, T. E. Crop yields. N. Y. Agr. Col. Farm Econ. 167: 4290-4304. Mar. 1949. 280.8 C812
- 47069 PORTUGAL. INSTITUTO NACIONAL DE ESTADÍSTICA. Estatística industrial [Industrial statistics], 1947. 1948? 396 p. 264 F49E1  
Includes agricultural products industries.
- 47070 QUEBEC. MINISTÈRE DE L'INDUSTRIE ET DU COMMERCE. BUREAU DES STATISTIQUES. Grandes cultures, 1948; Field crops, 1948. Feb. 24, 1949. 51 p. 253.8 St2Cr  
Text in French and English.
- 47071 QUEENSLAND. GOVERNMENT STATISTICIAN. Queensland agricultural production, 1947-48. 1948. 5 p. 271.3 R26Ag
- 47072 SASTRY, N. S. R. World census of agriculture. Agr. Econ. 1: 23-26. Nov. 1948. 281.8 Ag832
- 47073 STATISTICAL digest of the Czechoslovak Republic, 1948. 1948. 131 p. 266.8 St2  
Includes agricultural statistics.
- 47074 TAEUBER, C. World census of agriculture. (In Chinese.) Monthly Farmers' Bank China 9(7): 41-45. July 1948. 281.9 F225M
- 47075 TURKEY. OFFICE CENTRAL DE STATISTIQUE. Small statistical abstract of Turkey, 1948. Ankara, 1949. 558 p. (P. 291) 269.9 St2  
Includes agricultural and trade statistics.
- 47076 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Spring planting, by P. Aylesworth, and R. Lewis. Washington, 1949. 2 p. 1.914 R2R11
- 47077 VENTURA COUNTY, CALIFORNIA, AGRICULTURAL COMMISSIONER. Annual report, crop statistics, 1948. n. p., 1949. 22 p. 81 V56
- 47078 WILLIAMS, C. T. Better crop reports needed by growers. Canad. Grower 72(4): 10. Apr. 11, 1949. 80 C16
- 47079 WIRTH. Aus der landwirtschaft in Württemberg-Baden. Statist. Monatsh. Württemberg-Baden 3: 64-67. Feb. 1949. 265 St24  
Statistics.
- 47080 WIRTH. Die ernte 1948. Bad. Landw. Wchbl. 116: 50. Jan. 29, 1949. 18 B142  
Statistical.

## BEVERAGES AND CONDIMENTS

- 47081 AGOSTINO, L. D'. Critique on the present legislation on production and use of concentrates. (In Italian.) Gaz. Vinic. 4(8): 1-2. Feb. 19, 1949. 390.8 G25 Italy.
- 47082 AMERINE, M. A. California wine. Vortex 10: 206-208, 210. Apr. 1949. 381 V91
- 47083 AMERINE, M. A. Wine production problems of California grapes. III. Wine Rev. 17(3): 10-12. Mar. 1949. 390.8 W722
- 47084 ARMANDO, L. Drama of coffee and people. Brazil 23(4): 10-12. Apr. 1949. 280.8 B732
- 47085 BARRAL, L. La gloire renouvelée du plus vieux cépage "la clairette du Languedoc." Journée Vinic. Export 23(18): 1. Mar. 1949. 390.8 J822  
Text in English, p. 1, 6.
- 47086 BARRY, T. H. Glutamic acid. 1-2. Food [London] 18: 68-70, 100-103. Ref. Mar.-Apr. 1949. 389.8 F738
- 47087 BAUER, M. Die weinbausiedlungen in der Steiermark. Österr. Weintztg. 4: 90-92. Mar. 12, 1949. 390.8 Os7
- 47088 BELLSTEDT, F. H. Filter material for the wine cellar. (In Afrikaans.) Wynboer 18(211): 23-24. Apr. 1949. 390.8 W724
- 47089 BELLSTEDT, F. H. Laboratory and winery practice. Wine & Spirit 18(3): 8, 13. Mar. 1949. 390.8 W725
- 47090 BERTRAND, G. Les soins au vin. Rustica 22: 170. Feb. 27, 1949. 14 R92
- 47091 BIDONE, M. El anhidrido sulfuroso en la vinificación corriente. Vinos, Viñas y Frutas 44: 357-359. Feb. 1949. 9 Ag89
- 47092 BIDONE, M. La ley nacional no. 12.372 y su posible reglamentación. Vinos, Viñas y Frutas 44: 323-324. Jan. 1949. 9 Ag89  
Creation of Dirección General de Vitivinicultura in Argentina.
- 47093 CERCELET, M. Les maladies et les altérations du vin. Acclimatation 76: 13. Jan. 15, 1949. 14 Ac2



- 47094 DISTILLED SPIRITS INSTITUTE, INCORPORATED. Annual report 1947. 1948? 105 p. 390.9 D63
- 47095 DRAGACH-TCHOSSITCH, R. Contribution à la détermination de la composition chimique du vinaigre de vin. (In Serbian.) Yugoslavia. Min. Poljoprivrede. Arh. za Poljoprivredne Nauka i Teh. 3(5): 76-89. Ref. 1948. 21.5 Y9  
French summary.
- 47096 DUQUE, J. P. El café en la República Dominicana, problemas relativos a la producción. Dominican Repub. Comn. de Defensa del Café y del Cacao. B. Inform. 6(40/41): 1-6. (Cont.) Jan./Feb. 1949. 286.3689 D71
- 47097 EMMENS, J. A. Consumption of beer and spirits before and after the war. (In Dutch.) Natl. Com. v. Brouwerst. Jaarb. 1949: 53-56. 390.9 N21
- 47098 ENGEL, F. Die traubenuntersuchungen 1948 an der versuchsstation für das gärungsgewerbe. Versuchsanst. f. das Gärungsgewerbe. Mitt. 1949(1/2): 15-20. (Cont.) Jan./Feb. 1949. 390.08 V67
- 47099 GALHAUD, J. J. La vraie défense et le vrai contrôle des appellations contrôlées. Agriculture [Paris] 13: 45-46. Feb. 1949. 14 Ag823  
Wine.
- 47100 GOMES, A. O. Decline in production of cacao in Bahia. (In Portuguese.) Observador Econ. e Financ. 13(157): 73-76. Feb. 1949. 280.8 Ob72
- 47101 GROS, L. Les vins d'appellation contrôlée en Gironde. B. des Engrais 21: 43-45. Mar. 1949. 57.8 B87
- 47102 HERMAN, A., IZSAK, J. A., and BERCUSON, N. The recovery of distillery residue by spray drying. Canad. Chem. & Process Indus. 33: 211-212, 215. Mar. 1949. 381 C16
- 47103 HESS, E. Brauversuche mit ungeschälter und geschälter hirse. Versuchsanst. f. das Gärungsgewerbe. Mitt. 1948(11/12): 7-8. Nov./Dec. 1948. 390.08 V67
- 47104 HILBRANDER, H. G. A. H. Increase of roller capacity in tea processing. (In Dutch.) Bergcultures 17: 119-120. Nov. 1, 1948. 22.5 B45
- 47105 HOED, F. Essais de brassins. Petit J. du Brasseur 57: 286, 288. Apr. 8, 1949. 390.8 P44
- 47106 HUBER, H. Das weinjahr 1948 an der Sternenhalle Stäfa. Schweiz. Z. f. Obst u. Weinbau 58: 62-64. Jan. 29, 1949. 80 Sch9
- 47107 JACOB, M. P. The Indian cardamon industry. Business Week [Madras] Planting Sup. 1948: 6. Aug. 21, 1948. 281.182 B96
- 47108 JACOBS, M. B. Coffee flavor components; the flavor of roasted coffee is a very complex mixture, a study of these components may help in the formulation of a coffee flavor. Amer. Perfumer & Essential Oil Rev. 53: 230-232. Ref. Mar. 1949. 308.8 Am3
- 47109 JAQUEMIN, I. L. Valiosas contribuciones de la ciencia italiana a los investigaciones enológicas. Vinos, Viñas y Frutas 44: 317-321. (To be cont.) Jan. 1949. 9 Ag89
- 47110 JIMÉNEZ J., J. El café en la provincia de Catargo. Suelo Tico 1: 378-380. Dec. 1948. 8 Su2  
Costa Rica.
- 47111 JOBSON, A. Domestic brew. Country Life [London] 105: 484-485. Mar. 4, 1949. 80 C83
- 47112 KAMP, J. B. V. D. The promotion of the world demand for tea. (In Dutch.) Bergcultures 18: 55, 57, 59. Feb. 1, 1949. 22.5 B45
- 47113 KAPPENBERG, W. Expansion of soluble coffee industry depends on improvement of product. Tea & Coffee Trade J. 96(4): 12, 43. Apr. 1949. 68.8 T22
- 47114 KIR'ÍALOVA, E. N. A study of the yeasts of red bilberry juice. (In Russian.) Vsesofuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(10): 35-38. Ref. 1948. 20 Ak1  
In wine fermentation.
- 47115 KRIMBAS, B. L'année viticole 1948-1949. Off. Internatl. du Vin. B. 22(215): 17-20. Jan. 1949. 390.8 B87  
Greece.
- 47116 LECLERCQ, R. Le chocolat en vente libre? Coopération 19: 7, 9. Mar. 1949. 280.28 C7845  
Removal of rationing in France.
- 47117 LI, T. Y. Tea industry in Formosa. (In Chinese.) Monthly Farmer's Bank China 9(7): 32-40. July 1948. 281.9 F225M
- 47118 LIEDERMANN, E. Wo kaufe ich ein? Ein führer durch Österreichs weinbaugebiete. Österr. Weinztg. 4: 70, 93-94. (Cont.) Feb. 26, Mar. 12, 1949. 390.8 Os7
- 47119 LODI, G. Domestic and foreign luxury wines. (In Italian.) Gior. dei Pasticcieri e Confettieri 57: 81-82. Feb. 1949. 389.8 G432  
Italy.
- 47120 LUGAN, M. Le cépage a donné son nom à la "Clairette du Languedoc." Journée Vinic. Export 23(18): 4. Mar. 1949. 390.8 J822  
Text also in English, p. 4.
- 47121 LÜTHI, H. Wege zur verbesserung der obst-weinqualität. Schweiz. Z. f. Obst u. Weinbau 58: 71-74, 92-95. Feb. 12-26, 1949. 80 Sch9
- 47122 MARESCALCHI, C. Sparkling wines. (In Italian.) Terra e Sole 79: 82-83. Mar. 1949. 16 T273
- 47123 MAUTNER-MARKHOF, M. Die österreichische brauindustrie vor dem jahre 1938 und ihre heutige lage. Hochsch. f. Bodenkultur in Wien. Jahrb. (1947) 1(2): 225-236. 1948. 105.9 V67J
- 47124 MENSIO, C. Problems of wine technology: citric or tartaric acid? (In Italian.) Not. Enol. ed Aliment. 5: 201-202. Oct. 1948. 16 N847
- 47125 MEREDITH, C. C. Vegetable ivory palm; notes on the collection of the sap of the vegetable ivory palm (Hyphaene ventricosa) and manufacture of palm wine spirit. Rhodesia. Agr. J. 45: 414-417. Sept./Oct. 1948. 24 R34
- 47126 MERZ, J. J. Die bedeutung der Wiener Messe für die österreichische weinwirtschaft. Österr. Weinztg. 4: 81-83. Mar. 12, 1949. 390.8 Os7
- 47127 MOORTGAT, E. Bières en bouteilles de longue durée de conservation. Petit J. du Brasseur 57: 263-267. Apr. 1, 1949. 390.8 P44
- 47128 MOROY, J. Caractères spécifiques des eaux-de-vie de fruits à noyaux. Ann. des Falsif. 41: 567-573. Oct./Dec. 1948. 389.8 An72
- 47129 MOROY, J. Note complémentaire sur les caractères analytiques des kirschs. Ann. des Falsif. 41: 573-574. Oct./Dec. 1948. 389.8 An72
- 47130 MOSER, L. Wer trägt die schuld an den grossen weinpreisschwankungen? Österr. Weinztg. 4: 84-87. Mar. 12, 1949. 390.8 Os7
- 47131 MYERS, MRS. K. L. Mate—tägliches getränk von 15 mill. Landfrau 4(3): 14-15. Mar. 1949. 18 L2337
- 47132 NAVAS ROMANO, E. Moderno sistema de elaboración de vinos blancos y tintos superiores. Ali-cante. Cám. Ofic. Agr. B. 60: 4-6. Feb. 1949. 15 AL4
- 47133 NÈGRE, E. Bilan pratique de la fermentation alcoolique. Prog. Agr. et Vitic. 1949: 101-105. Feb. 20/27, 1949. 14 P94
- 47134 NÈGRE, E. La clairette, sa production, ses caractéristiques. Journée Vinic. Export 23(18): 2. Mar. 1949. 390.8 J822  
Text also in English, p. 1, 6.
- 47135 NEY, M. Dosage rapide du zinc dans les vins. Ann. des Falsif. 41: 533-537. Oct./Dec. 1948. 389.8 An72
- 47136 NIEHAUS, C. J. G. Recommendations in connection with the manufacture of dry white wine. (In Afrikaans.) Wynboer 18(210): 14-18. Mar. 1949. 390.8 W724
- 47137 OHL, R. Warum nicht runkelbier? Kurzbrieft. f. Ernähr. u. Landw. 12, B IV 3b, 2 p. (Concl.) Dec. 1948. 281.8 K96
- 47138 OLIO, G. DELL'. Determination of alcohol in wines—ebullimeters. (In Italian.) Coltivatore e Gior. Vinic. Ital. 95: 33. Feb. 15, 1949. 16 C72
- 47139 PACHECO ACUÑA, C., and PACHECO ACUÑA, D. La industria del té en América. Hacienda 44(3): 42-43. Mar. 1949. 6 H11
- 47140 PALIERI, G. Typical and prized wines of Italy: consistency and evolution of Piedmont grape and wine manufacture. (In Italian.) Alimenti 5: 9-11. (Cont.) Jan. 1949. 389.8 AL44
- 47141 PEYER, E. Handwerk und kunst im weinkeller. Schweiz. Z. f. Obst u. Weinbau 58: 74-77. Feb. 12, 1949. 80 Sch9
- 47142 RENTSCHLER, H. Vorsicht beim gebrauch von fünfprozentiger schwefeliger säure! Schweiz. Z. f. Obst u. Weinbau 58: 135-136. 80 Sch9
- 47143 RETTERER, E. Ebulliométrie électrique et degré des vins. Réveil Agr. 58: 66-67. Mar. 1, 1949. 14 R322
- 47144 SCHANDERL, S. Die jüngste entwicklung der schaumweinherstellung in Südafrika. Österr. Weinztg. 4: 67-68. Feb. 26, 1949. 390.8 Os7



- 47145 SCHELLENBERG, A. Tätigkeitsbericht des Schweizerischen Weinbauvereins für das Jahr 1948. Schweiz. Z. f. Obst u. Weinbau 58: 98-100, 114-116. Feb. 26-Mar. 12, 1949. 80 Sch9
- 47146 SCHLUMBERGER, R. Das erste österreichische weinmuseum. Österr. Weinztg. 4: 87-88. Mar. 12, 1949. 390.8 Os7
- 47147 SCHMID, C., and NESTLE, K. T. Trübungserscheinungen in 1947er weinen. Österr. Weinztg. 4: 65-66. Feb. 26, 1949. 390.8 Os7
- 47148 SCHULLE, H. Frühgefüllte weine? Österr. Weinztg. 4: 83-84. Mar. 12, 1949. 390.8 Os7
- 47149 SEGUINAUD, M. P. Scandale du prix du vin au Maroc. Inform. Maroc. 409: 1. Nov. 13, 1948. 281.8 In3
- 47150 SETZEN, J. A plea for a South African national wine shop. Wine & Spirit 18(3): 13. Mar. 1949. 390.8 W725
- 47151 SHIMWELL, J. L. Brewing bacteriology. VI. The lactic acid bacteria (family Lactobacteriaceae). Wallerstein Labs. Commun. 12(36): 71-88. Mar. 1949. 390.9 W15  
Summary in French and Spanish.
- 47152 STRAUB, M. Der sinn des körgegesetzes. Allgäuer Bauernbl. 17: 69-70. Feb. 11, 1949. 18 AL53  
Wine quality.
- 47153 SZILVINYI, A. Zur voraussage des malzextraktes nach Bishop. Versuchsanst. f. das Gärungsge-  
werbe. Mitt. 1949(1/2): 21-22. Ref. Jan./Feb. 1949. 390.08 V67
- 47154 TEA BUR., INC. A week of extra profits: National Hot Tea Week, February 11th thru 18th. New York, 1948. 13 p. 68.1 T224W
- 47155 TOUBEAU, M. La ratification de l'accord franco-italien du 29 mai 1948 sur la protection des appellations d'origine. Off. Internatl. du Vin. B. 22(215): 12-16. Jan. 1949. 390.8 B87
- 47156 VEN, D. J. VAN DER. Beer in Netherlands history and folklore. (In Dutch.) Natl. Com. v. Brouwerst. Jaarb. 1949: 68-77. Ref. 390.9 N21
- 47157 VERZBOLOVSKIS, F. La brasserie en Argentine. Petit J. du Brasseur 57: 117. Feb. 11, 1949. 390.8 P44
- 47158 WINE INSTITUTE. Thirteenth annual wine industry statistical survey, I. Preliminary totals. Wine Inst. B. 413, 27 p. Mar. 31, 1949. 390.9 W72
- 47159 ZEZZOS, R. Chocolate. (In Italian.) Gior. dei Pasticcieri e Confettieri 57: 87-88. Feb. 1949. 389.8 G432  
History.
- DAIRY PRODUCTS
- 47160 ADAMS, T. M. The fall milk shortage. II. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 84-88. 1948. 44.9 V593
- 47161 APLIN, R. D. The fall milk shortage. III. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 89-91. 1948. 44.9 V593
- 47162 ARMERDING, G. D. Dairying on the West Coast and in Hawaii. Milk Dealer 38(6): 46, 102, 104, 106. Mar. 1949. 44.8 M595
- 47163 AUSTRALIAN DAIRY PRODUCE BD. Proceedings 1947-48. Australian Dairy Rev. 17(2, sup.), 7 p. Feb. 1, 1949. 44.8 Au73
- 47164 BACHELLERIE, G. La situation de nos stocks de beurre [France]. Action Lait. (n. s.) 5(25): 1, 3. Feb. 20, 1949. 44.8 Ac8
- 47165 BARALE, L. S. Esta es la realidad del tambo. Voz de SanCor 3(46): 4. Feb. 16, 1949. 280.28 V94  
Argentina.
- 47166 BELGIUM. OFF. NATIONAL DU LAIT ET DE SES DÉRIVÉS. Le bon lait pour tous. Bruxelles, 1949. 64 p. 44 B414
- 47167 BRADFIELD, A. Description of new dairy building. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 53-54. 1948. 44.9 V593  
At Vermont College of Agriculture.
- 47168 BRIGGS, F. A. Feast and famine in milk. Farm & Ranch 68(4): 13-14. Apr. 1949. 6 T31  
In Texas and Oklahoma.
- 47169 BROMFIELD, L. A dairy farmer answers back. A statement submitted to the House Committee on Agriculture. Holstein-Friesian World 46: 667, 767-768. Apr. 2, 1949. 43.8 H742  
Butter vs. oleomargarine.
- 47170 CAIN, J. Why not produce more milk in Alabama? Ala. Farmer 27(6): 6, 18. Mar. 1949. 276.8 AL1
- 47171 CLARK, H. C. Trends in dairy production. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 2: 10-12. Jan. 1949. 281.9 Au73
- 47172 COSSETTE, R. La creme glacée au XXe siècle. Rev. d'Oka 23: 1-15. Jan./Feb. 1949. 7 Ok1
- 47173 DAIRY produce. Way Ahead 1(3): 60-61. Spring, 1948. 280.8 W362  
Netherlands.
- 47174 DAVIDSON, E. J. Where do we go from here? Amer. Butter & Cheese Rev. 11(3): 36-38. Mar. 1949. 44.8 Am37  
The butter industry.
- 47175 EWALT, H. P. Look West young dairyman; good pastures, irrigation projects, rising demands all point to great future for dairying in the West. Jersey B. 68: 486-487. Apr. 10, 1949. 43.8 J48
- 47176 FAUST, H. P. In the face of high costs, the arithmetic of the balance sheet shows that efficiency + quality = profits. Amer. Milk Rev. 11(3): 28-29. Mar. 1949. 44.8 Am38
- 47177 FERRARI, A. Considerations on domestic and foreign trade in cheeses. (In Italian.) Latte 23: 9-10. Jan. 1949. 44.8 L35  
Italy.
- 47178 FRANKENA, H. J. The course of milk production in 1947 and 1948. (In Dutch.) Alg. Nederland. Zuivelbond. Off. Orgaan 41: 106-107, 116-117. Mar. 30-Apr. 6, 1949. 44.9 AL3
- 47179 GABORIAUD, R. A quand le statut de la production laitière française? Action Lait. (n. s.) 5(24): 1. Feb. 5, 1949. 44.8 Ac8
- 47180 GUSLER, G. Scanning the dairy horizon. Nebr. Farmer 91(6): 16-17, 49. Mar. 19, 1949. 6 N27  
Similar title in Farmer [St. Paul], Gen. Ed. 67(6): 8, 29. Mar. 19, 1949. 6 F2211
- 47181 HOYT, L. W. Problems in the operation of city milk plants. Canad. Dairy & Ice Cream J. 28(3): 57-58, 100. Mar. 1949. 44.8 C162
- 47182 INTERNATIONAL DAIRY CONGRESS, 12, STOCKHOLM, 1949. Preliminary programme. Stockholm, 1948. 48 p. 44.9 In8212P
- 47183 IVANOV, P. 1950 production level has been achieved. (In Russian.) Moloch. Promysh. 9(10): 7-8. Oct. 1948. 44.8 M734  
Butter industry in Kursk Region.
- 47184 LANGHARD, O. Das gegenwärtige produktions-, absatz- und qualitätsproblem unserer käseindustrie. Schweiz. Zentbl. f. Milchw. 38: 59-60. Mar. 25, 1949. 44.8 Sch93  
Also in Schweiz. Milchztg. 75: 183-184. Mar. 25, 1949. 44.8 Sch92
- 47185 LYONS, J. The prospects of the dairying industry. Irish Agr. and Creamery Rev. (n. s.) 18(182): 9, 11; (183): 6-9. (Cont.) Feb.-Mar. 1949. 44.8 C866
- 47186 MARRACINO, R. Improvements in the cheese industry. (In Italian.) Allevatore 5(3): 1. Jan. 16, 1949. 49 AL55
- 47187 MAULE, J. P. The production of cows' milk in Cyprus. Cyprus. Dept. Agr. Leaflet (Ed. Ser.) 23, 15 p. 1948. 21 C99Le
- 47188 MILK INDUSTRY FOUNDATION. Milk quiz; answering questions about milk. n. p., 1948? 4 p. 281.344 M592Mi
- 47189 MITTEN, H. L., JR. Milk plant layout. South. Dairy Prod. J. 45(4): 128, 134. Apr. 1949. 44.8 So83
- 47190 MULVANY, J. L. Proposición de providencias a adoptar por la municipalidad de Mar del Plata, para asegurar un abasto racional de leche a la población. Indus. Lechera 31(354): 44-46, 48-49. Jan. 1949. 44.8 In26
- 47191 NATIONAL COOPERATIVE MILK PRODUCERS FEDERATION. A dairy policy—1949. Natl. Coop. Milk Prod. Fed. Ed. Ser. 37, 19 p. 1949. 281.3449 N21
- 47192 NORWAY. LANDBRUKSDEPARTEMENTET. Melding om meieribruket for året 1946 [Report on the dairy industry for the year 1946]. (In Norwegian.) Oslo, 1948. 50 p. (Its Arsmelding. Tilleg F). 11 C46F



47193 OOSTERHOR, A. T. Livestock industry of Holland; control of milk production. (In Italian.) *Allevatore* 5(6): 3. Feb. 6, 1949. 49 AL55

47194 PELISHENKO, F. Possibilities for the timely fulfillment of the plan were created at the beginning of the year. (In Russian.) *Moloch. Promysh.* 9(10): 10-11. Oct. 1948. 44.8 M734

In the dairy industry in Khar'kov Region.

47195 PENNING, H. J. Milk, cream, butter. (In Afrikaans.) *So. African Dairyman* 11: 96. Mar. 1949. 44.8 So822

47196 RAMÍREZ, C. A. Fomento lechero. *Agrario* 14(405): 16. Jan. 1949. 9.3 Ag85

Chile.

47197 RIBEIRO, J. A. The "milk and derivatives" section of the Salte Plan. (In Portuguese.) *B. do Leite* (ser. 4) 2(20): 11-13. Feb. 1949. 44.8 B633

Brazil.

47198 RIBEIRO, J. A. Opinions of Brazilian deputies on the "Milk and dairy products" section of the Salte Plan; reply. (In Portuguese.) *Rev. dos Criadores* 20(2): 29-30, 12. Feb. 1949. 43.8 R32

47199 ROBINSON, C. A future in dairying. *Utah Farmer* 68(15): 7. Mar. 26, 1949. 6 D45

47200 ROBINSON, H. The dairy industry has—a four leaf clover. *Amer. Milk Rev.* 11(3): 2-3, 62. Mar. 1949. 44.8 Am38

4-H Club work.

47201 THE SALTE Plan: milk and derivatives. (In Portuguese.) *B. do Leite* (ser. 4) 2(19): (20): 7, 9-10. (Cont.) Jan.-Feb. 1949. 44.8 B633

Brazil.

47202 SCHICK, R. Farmers can make their markets. *Farm & Ranch* 68(4): 17, 19. Apr. 1949. 6 T31

The dairy industry, Logan County, Arkansas, and the Sterile Cream Division plant, Paris, Ark.

47203 SELBY, H. W. The fall milk shortage. I. *Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb.* [Papers presented at] *Ed. Conf. for Dairy Plant Oper. and Milk Distrib.* 27: 81-83. 1948. 44.9 V593

47204 SHVEDOV, I. Obligations [in cheese industry] have been fulfilled on time. (In Russian.) *Moloch. Promysh.* 9(10): 8-9. Oct. 1948. 44.8 M734

47205 STÄHLI, F. 100 Jahre Käseereigenossenschaft Wasen. I. *Schweiz. Zentbl. f. Milchw.* 38: 47-48. Mar. 11, 1949. 44.8 Sch93

47206 STEDJE, O. Report on the year 1948. (In Norwegian.) *Meieriposten* 38: 166-172. Mar. 12, 1949. 44.8 M47

Dairy industry in Norway.

47207 STØLE, K. Report on the dairy industry in East Norway. (In Norwegian.) *Meieriposten* 38: 132-134. Feb. 26, 1949. 44.8 M47

47208 STOLL, G. Gründliche fachausbildung mehr denn je notwendig. *Osterr. Milch-u. Fettwirtschaft* 4: 49-50. Feb. 1949. 44.8 Os72

47209 THOMSEN, L. C. Controlling fat losses. *Milk Dealer* 38(6): 52, 126, 128, 130, 132-134. Mar. 1949. 44.8 M595

47210 TURNBULL, J. S. National Dairy Council and the industry. *Canad. Dairy & Ice Cream J.* 28(3): 60, 62, 64, 66. Mar. 1949. 44.8 C162

47211 VEGH, J. Dairy conditions in Europe, East and West. *Calif. Dairyman* 29(4): 12-13. Mar. 26, 1949. 44.8 C12

47212 VOSKUIL, W. C. Is it time to sell the dairy cows? *Wis. Agr. & Farmer* 76(6): 9. Mar. 19, 1949. 6 W751

47213 WADSWORTH, A. R. Must farmers wear out their lives to furnish cheap food for labor? *C. M. P. A. Bulletin* 31(355): 5-9. Mar. 1949. 44.9 C768

Annual report presented to the Connecticut Milk Producers' Association.

47214 WECKEL, K. G. Fat-free milk. *Canad. Dairy & Ice Cream J.* 28(3): 80, 82, 84, 86, 101. Mar. 1949. 44.8 C162

47215 WOTTLING, H. Une symbiose: industrie laitière et élevage. *Tech. Lait.* 5(48): 8. Mar. 11, 1949. 44.8 Of2

47216 WYLIE, C. E. Surplus milk or milk shortage. *South. Dairy Prod. J.* 45(4): 148, 153. Apr. 1949. 44.8 So83

### Analysis and Composition

47217 BAKALOR, S. Investigations on the composition of South African milk. V. The relationships between the various constituents of milk. *So. Africa Dept. Agr.* B. 297, 18 p. 1948. 24 So84P

47218 BANG, F. Substratum breakdown by *Betacoccus cremoris* and *Streptococcus lactis*. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 515-516. 1949. 44.2.9 In83

47219 BEAU, M. Le pH en laiterie. *Indus. Lait.* [Paris] 30: 22-23. Mar. 1949. 44.8 In2

47220 BONDARENKO, G. Biological properties of milk. (In Russian.) *Moskov. Ordena Lenina Sel'skokhoz. Akad. im. K. A. Timirfazeva. Sborn. Studen. Nauch.-Issled. Rabot* 1948: 39-44. 106 M852Sb

47221 BORRELL, S. Estudio de algunas constantes físicas de la leche y su aplicación a la fiscalización bromatológica. *Soc. Españ. de Fís. y Quím. An. Ser. B. Quím.* 44: 1201-1224. Ref. Nov. 1948. 385 So16

English summary.

47222 CHAFFEE, C. W. Weigh can sampling and testing. I. *Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb.* [Papers presented at] *Ed. Conf. for Dairy Plant Oper. and Milk Distrib.* 27: 68-70. 1948. 44.9 V593

47223 CHALMERS, C. H. Bacteria in relation to dairying. *Dairyman* 66: 187-189. Apr. 1949. 44.8 D1426

47224 CHEKULAEVA, L. Calculating the sugar content in condensed milk. (In Russian.) *Moloch. Promysh.* 9(10): 32. Oct. 1948. 44.8 M734

47225 DOBINSKY, E. Automatische probenehmer für die durchschnittsprobe der tagesanlieferungsmilch. *Milch-wissenschaft* 4: 69-74. Mar. 1949. 44.8 M5933

Summary in English.

47226 DURON, P., and FOURNIER, A. Note sur le dosage des chlorures dans les laits. *Ann. des Falsif.* 41: 537-538. Oct./Dec. 1948. 389.8 An72

47227 ERB, J. H. Trends in ice cream composition. *Ice Cream Rev.* 32(8): 150-151. Mar. 1949. 389.8 Ic22

47228 FLURSCHÜTZ, F. Die eichung der butyrometer. *Osterr. Milch-u. Fettwirtschaft* 4: 57-58. Feb. 1949. 44.8 Os72

47229 GODEL, A. Accelerated method of determining milk acidity. (In Russian.) *Moloch. Promysh.* 9(10): 33. Oct. 1948. 44.8 M734

47230 GOLDING, N. S. Can the producer test milk quality on the farm using dried prepared resazurin vials? (Abs.) *Northwest Sci.* 22: 28. Feb. 1948. 470 N81

47231 GONASHVILI, SH. G. First stage in casein proteolysis. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(5): 8-13. 1948. 20 Ak1

47232 GORBACHEVA, A. P. Method for the determination of casein and albumin in cow's milk. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(6): 37-39. 1948. 20 Ak1

47233 HIGGINBOTTOM, C. The micro-flora of dried milks. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 516-518. 1949. 44.2.9 In83

47234 HILEMAN, J. L. Weigh can sampling and testing. II. *Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb.* [Papers presented at] *Ed. Conf. for Dairy Plant Oper. and Milk Distrib.* 27: 71-75. Ref. 1948. 44.9 V593

47235 HIRSCH, A. The bacteriology of condensed milk. *Dairy Indus.* 14: 273-275. Mar. 1949. 44.8 D1427

47236 KING, N. The microscopical examination of milk powders. *Nederlands Melk-en Zuiveltijdschr.* 2: 137-147. July/Sept. 1948. 44.8 N283

47237 KING, N. The structure of ice cream, methods of its investigation and its relation to the physical properties of ice cream. (In Danish.) *Nord. Mejeri-Tidsskr.* 15: 6-9. Ref. 1949. 44.8 N752

47238 KJULSTEN, A. Dissolving of fat column. (In Swedish.) *Ladugarden* 1949: 62. Feb. 1949. 44.8 L12

Testing for milk fat.

47239 KOPYTOV, F. A floating milk-measurer. (In Russian.) *Moloch. Promysh.* 9(10): 44. Oct. 1948. 44.8 M734

For determining quantity of milk.



- 47240 KRUISHEER, C. I. The standardization of the method for the determination of the acidity of milk. (In Dutch.) *Nederlands Melk-en Zuivelijdschr.* 2: 127-136. July/Sept. 1948. 44.8 N283  
English summary.
- 47241 KRUKOVSKY, V. N., LOOSLI, J. K., and WHITTING, F. The influence of tocopherols and cod liver oil on the stability of milk. *J. Dairy Sci.* 32: 196-201. Ref. Mar. 1949. 44.8 J822
- 47242 LEA, C. H. Determination of the free amino-nitrogen of casein and of fresh and deteriorated milk protein by the Van Slyke method. *Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem.* 566: 364-368. Ref. 1948. 389.9 G792M
- 47243 LEA, C. H. The reaction between milk protein and reducing sugar in the 'dry' state. *Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem.* 567: 369-376. 1948. 389.9 G792M
- 47244 LEATHER, A. N. Calcium tartrate crystals in processed cheese. *Analyst* 74: 51. Jan. 1949. 382 An1
- 47245 LEONT'EV, I. F. Nucleic acid in milk. (In Russian.) *Priroda* 37(12): 52. Dec. 1948. 410 P933
- 47246 LEVINE, B. S., and BLACK, L. A. Direct microscopic clump counts of pasteurized milk by carbolated, Newman-Lampert No. 2, and the acid-and-water-free methylene blue staining procedures. *J. Milk & Food Technol.* 12: 69-74, 83. Ref. Mar./Apr. 1949. 44.8 J824
- 47247 MOHR, W., and PESTEMER, M. Über selbsttätige probennahme an der milchwaage. *Milchwissenschaft* 4: 74-76. Mar. 1949. 44.8 M5933  
Summary in English.
- 47248 MOHR, W., and PESTEMER, M. Versuche zur entwicklung von kontinuierlich arbeitenden durchflussprobenehmern. *Milchwissenschaft* 4: 77-78. Mar. 1949. 44.8 M5933  
Summary in English.
- 47249 MÜNCHBERG, F. Zur methodik der keimzahlbestimmung in der milch. *Wien. Tierärztl. Monatsschr.* 35: 529-537. Ref. Nov. 1948. 41.8 T345
- 47250 NIKKILÄ, O. E. Maltly flavour in milk and milk products. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 521-522. 1949. 44.9 In83
- 47251 PARRISH, D. B., and others. Properties of the colostrum of the dairy cow. II. Effect of prepartal rations upon the nitrogenous constituents. *J. Dairy Sci.* 31: 889-895. Ref. Oct. 1948. 44.8 J822  
G. H. Wise, J. S. Hughes, and F. W. Atkeson, joint authors.
- 47252 PATTON, S., and JOSEPHSON, D. V. The isolation of furfuryl alcohol from heated skim milk. *J. Dairy Sci.* 32: 222-227. Ref. Mar. 1949. 44.8 J822
- 47253 PIEN, J. La méthode internationale d'analyse des fromages est-elle exacte? *Ann. des Falsif.* 41: 556-557. Oct./Dec. 1948. 389.8 An72
- 47254 PIEN, J. Sur le microdosage du diacétyle dans les beurres. *Ann. des Falsif.* 41: 529-533. Oct./Dec. 1948. 389.8 An72
- 47255 POLONOVSKI, M., BAUDU, L., and NEUZIL, E. État physico-chimique de la xanthine-déhydrase dans le lait de vache. *Lait* 29(281/282): 1-19. (To be cont.) Jan./Feb. 1949. 44.8 L143
- 47256 RICKES, E. L., KOCH, P. J., and WOOD, T. R. Additional observation of the rate of growth of *Lactobacillus casei*. *J. Biol. Chem.* 178: 103-111. Mar. 1949. 381 J824
- 47257 RITTER, P. Das verhalten milchwirtschaftlich wichtiger bakterien in der milch in abhängigkeit von laktationsstadium, fütterungsart und standort der kuh. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 524-525. 1949. 44.9 In83
- 47258 ROTH, H. Der einfluss von p-aminobenzoesäure und sulfonamiden auf das Schardinger enzym und die peroxydase der milch. *Milchwissenschaft* 4: 80-86. (Concl.) Ref. Mar. 1949. 44.8 M5933  
Summary in English.
- 47259 SANDERS, G. P., and SAGER, O. S. Heat inactivation of milk phosphatase in dairy products. *J. Dairy Sci.* 31: 845-857. Ref. Oct. 1948. 44.8 J822
- 47260 SMITH, G. F., FRITZ, J. S., and PYENSON, H. The determination of butterfat in ice cream employing mixed perchloric and acetic acids. *J. Dairy Sci.* 31: 905-908. Oct. 1948. 44.8 J822
- 47261 SOLBERG, P. The heat resistance of the *Escherichia-Aerobacter* bacteria in milk. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 526-527. 1949. 44.9 In82
- 47262 STOKES, J. L., and others. Factors affecting the rate of growth of *Lactobacillus casei*. *J. Biol. Chem.* 178: 93-101. Mar. 1949. 381 J824  
L. K. Koditschek, E. L. Rickes, and T. R. Wood, joint authors.
- 47263 THOMAS, S. B., and CLEGG, L. F. L. Bacteriology of heat-treated milk. *Milk Messenger* 26(3): 4-5. (To be cont.) Mar. 1949. 44.8 M5925
- 47264 THOME, K. E. The rôle of the betacocci in Swedish "herrgards" cheese. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 527. 1949. 44.9 In83
- 47265 TROUT, G. M., BRUNNER, J. R., and LUCAS, P. S. The Babcock fat test of reconstituted milk. *Amer. Milk Rev.* 11(3): 48-49. Mar. 1949. 44.8 Am38
- 47266 VIGOUREUX, B. Méthode de détermination rapide à l'usine des extraits secs des concentrés. *Lait* 29(281/282): 20-28. Jan./Feb. 1949. 44.8 L143
- 47267 VUYST, A. DE, VERVACK, W., and ROY, R. VAN. Corrélation entre l'albumine et la graisse du lait. *Agricultura [Louvain]* 46(4): 55-62. Nov. 1948. 13 R32
- 47268 WAGENAAR, R. O., and PROUTY, C. C. The adaptability of two strains of lactic streptococci to growth in the presence of homologous bacteriophage. *J. Dairy Sci.* 31: 859-866. Oct. 1948. 44.8 J822
- 47269 WAUSCHKUHN, B. Die plasmotropfen in der alfabutter. *Milchwissenschaft* 4: 78-80. Mar. 1949. 44.8 M5933  
Summary in English.
- 47270 WHITMAN, D. W., and TRACY, P. H. Ash alkalinity of dry buttermilk. *J. Dairy Sci.* 32: 191-195. Mar. 1949. 44.8 J822

## Consumption and Utilization

- 47271 COOK, H. L. The use of milk in bakery foods. *Amer. Baker* 17: 70-71. Jan. 1949. 389.8 Am36
- 47272 GENIN, G. L'emploi de l'acide lactique dans la fabrication des vernis et résines synthétiques. *Lait* 29(281/282): 91-99. Ref. Jan./Feb. 1949. 44.8 L143
- 47273 MAZZOLENI, G. Data on consumption of dairy products [Italy]. (In Italian.) *Mondo del Latte* 1949: 57, 59, 71. Feb. 1949. 44.8 M74  
French and English summary.
- 47274 O'DONNELL, P. E. Milk consumption increases. *Agr. Situation* 33(3): 5. Mar. 1949. 1 Ec7Ag

## Distribution, Marketing, and Transportation

- 47275 ALEXANDER, H. G. El transporte aereo de leche desde el norte de Irlanda hasta Gran Bretaña. *Res* 17: 23374. Mar. 5, 1949. 286.85 R31
- 47276 ALFONSUS, A. Neuzeitliche milchversorgung Wiens. *Österr. Milch- u. Fettwirtschaft* 4: 37-41. Feb. 1949. 44.8 Os72
- 47277 BACHELLERIE, G. Le problème de l'étiquetage; le ravitaillement général donne satisfaction à la demande des expéditeurs en produits laitiers. *Action Lait.* (n. s.) 4(20): 1, 3. Nov. 5, 1948. 44.8 Ac8  
France.
- 47278 BISWAS, J. N. K. Calcutta Co-operative Milk Societies Union. *Indian Co-op. Rev.* 14: 161-167. July/Sept. 1948. 280.28 In2
- 47279 CHAND, M. Co-operative marketing of ghee in U. P. *Indian Co-op. Rev.* 14: 191-192. July/Sept. 1948. 280.28 In2
- 47280 DAIRYMEN'S CO-OPERATIVE SALES ASSOCIATION. Complete summary of sales and other statistical data, 1948. 1949? 16 p. 280.2449 D14
- 47281 DICKSON, J. K. Surplus in the Montreal market. *Ontario Milk Prod.* 24: 299, 304. Apr. 1949. 44.8 On8
- 47282 DIFFENBACK, G. G. Milk moves to market. *Dairy World* 27(10): 13-17. Mar. 1949. 44.8 D1423
- 47283 EASTERBROOK, L. F. Sharing out the milk in Britain. *So. African Dairyman* 11: 80-81. Mar. 1949. 44.8 So822
- 47284 FINNEBURGH, M. L. How to increase per capita sales. *Ice Cream Field* 53(3): 44, 60, 62, 64-65. Mar. 1949. 389.8 Ic23



- 47285 FOSTER, W. A. Cheese marketing outlook during 1949. *Amer. Butter & Cheese Rev.* 11(3): 24-26. Mar. 1949. 44.8 Am37
- 47286 FRIEDGEN, A. E. Delivery cost control. *Milk Dealer* 38(7): 42-43. Apr. 1949. 44.8 M595
- 47287 GOODWILLIE, D. B. Present day trend in the marketing of dairy products. *Canad. Dairy & Ice Cream J.* 28(3): 50, 52-53, 56. Mar. 1949. 44.8 C162
- 47288 GRAF, F. Why more vigorous butter merchandising is necessary. *Natl. Butter & Cheese J.* 40(4): 24-25; 44, 46-48. Apr. 1949. 286.85 B98Bu
- 47289 GRANT, H. B. Home market trends. *Ice Cream Field* 53(3): 36-38, 40, 42. Mar. 1949. 389.8 Ic23
- 47290 HARMEL, L. Les coopératives laitières devant le problème de la qualité. *Libération Paysanne* 5 (207): 8. Mar. 17, 1949. 14 L61 France.
- 47291 HEDGES, I. R. Storm signals flying for some milk distributors. *News Farmer Coops.* 15(12): 8, 21-22. Mar. 1949. 166.2 N47
- Dairy cooperatives.
- 47292 HOMAN, J. L. New branches for the farmer. (In Dutch.) *Alg. Nederland. Zuivelbond. Off. Orgaan* 41: 93-94. Mar. 23, 1949. 44.9 AL3
- Dairy cooperation.
- 47293 JOHN, C. J. The Telankheri Dairy Society, Nagpur. *Indian Co-op. Rev.* 14: 186-188. July/Sept. 1948. 280.28 In2
- 47294 LAL, G. The Lucknow Co-operative Milk Supply Union. *Indian Co-op. Rev.* 14: 168-174. July/Sept. 1948. 280.28 In2
- 47295 LEISS, H. Die milchkontingente 1949. *Österr. Milch- u. Fettwirtschaft* 4: 33-35. Feb. 1949. 44.8 Os72
- 47296 LOUGHARY, F. A. California Guernsey Cattle Club opposes hundredweight plan. *Calif. Dairyman* 29(3): 34. Mar. 12, 1949. 44.8 C12
- For milk buying.
- 47297 LUBICH, H. Rückschau auf die milchablieferung 1948. *Salzburger Bauer* 4(8): 8. Feb. 24, 1949. 19 Sa3
- 47298 MASSACHUSETTS. AGRICULTURAL PROGRAM BOARD. MARKETING CONFERENCE. DAIRY SUB-COMMITTEE. Dairy report... Marketing milk. n. p., 1948. 4 p. 284.344 M38
- 47299 MATHER, E. J. Safeguard your markets. *Ice Cream Rev.* 32(8): 78, 80, 82-84, 86. Mar. 1949. 389.8 Ic22
- 47300 MUSTARD, H. S. Milk control standards and milk supplies of large cities. *Dairy World* 27(10): 27-33. Mar. 1949. 44.8 D1423
- 47301 MYRICK, N. Milk goes to a basketball tournament. *Amer. Milk Rev.* 11(3): 22, 65. Mar. 1949. 44.8 Am38
- 47302 NADEAU, P. La vente collective des denrées de la ferme. *Québec Lait.* 8(3): 17-18. Mar. 1949. 44.8 Q3
- 47303 NAIDU, K. M. The Madras Co-operative Milk Supply Union. *Indian Co-op. Rev.* 14: 175-180. July/Sept. 1948. 280.28 In2
- 47304 NEW ZEALAND DAIRY PRODUCTS MARKETING COMMISSION. First annual report and statement of accounts for the year ended 31st July, 1948. 1948. 69 p. 280.3449 N486
- 47305 QUITTER, H. A. Dealer "know-how" is important. *Ice Cream Field* 53(3): 54-56, 76. Mar. 1949. 389.8 Ic23
- Ice cream selling.
- 47306 RAMAKRISHNAN, K. C., and NARASIMHAN, V. S. The Coimbatore Milk Supply Union. *Indian Co-op. Rev.* 14: 181-185. July/Sept. 1948. 280.28 In2
- 47307 ROBBINS, H. H. Modern trends in self-service, package merchandising of ice cream. *Confectionery-Ice Cream World* 41(12): 18, 20. Mar. 25, 1949. 389.8 C767
- Also in *Ice Cream Rev.* 32(9): 158-164. Apr. 1949. 389.8 Ic22
- 47308 ROTHANSL, W. Probleme der städtischen milchversorgung in Österreich. *Österr. Milch- u. Fettwirtschaft* 4: 53-55. Feb. 1949. 44.8 Os72
- 47309 SARTAIN, G. E. Tank trucks for farm pick-up. *Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb.* [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 23-26. 1948. 44.9 V593
- 47310 SINGH, B. Ghee societies and their problems. *Indian Co-op. Rev.* 14: 193. July/Sept. 1948. 280.28 In2
- 47311 SRINIVASAYYA, Y. Co-operative milk supply in Mysore State. *Indian Co-op. Rev.* 14: 189-190. July/Sept. 1948. 280.28 In2
- 47312 TINLEY, J. M. Milk delivery in South Africa. *Pacific Dairy Rev.* 53(3): 24. Mar. 1949. 286.85 P11
- 47313 VALENTINE, D. How to handle bad publicity. *Milk Plant Monthly* 38(4): 69, 79. Apr. 1949. 44.8 C864
- 47314 WATIER, A. La publicité au service des industriels laitiers. *Québec Lait.* 8(3): 28-32. Mar. 1949. 44.8 Q3
- Grading, Inspection, Standardization, and Quality
- 47315 ASKEW, A. C., JR. Standardizing—it isn't as simple as you might think. *West. Dairy J.* 5(6): 37. Apr. 1, 1949. 44.8 W524
- Milk.
- 47316 BARKER, E. M. How to produce and deliver high-quality cream to market. *Dairy World* 27(10): 38-47. Mar. 1949. 44.8 D1423
- 47317 BARTLETT, S. Circumstances affecting the quality of milk. *Kent Farmers' J.* 65: 44-45. Mar. 1949. 10 K41
- 47318 BECKETT, D. C. Extraneous matter in cheese. *Canad. Dairy & Ice Cream J.* 28(3): 96, 98. Mar. 1949. 44.8 C162
- 47319 BOLAND, H. A. The fieldman's role in producing quality milk. *Milk Plant Monthly* 38(4): 42, 44-45. Apr. 1949. 44.8 C864
- 47320 BREMER, H. E. Progress report on uniform inspection in the Northeastern States. *Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb.* [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 15. 1948. 44.9 V593
- 47321 BROWN, J. H. Methods of control in production and marketing of certified milk. *J. Milk & Food Technol.* 12: 75-83. Mar./Apr. 1949. 44.8 J824
- 47322 BRYANT, C. B. A. Let's show the producer his own sediment picture. *Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb.* [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 55-67. 1948. 44.9 V593
- 47323 CASTLE, M. E., and GLÜCKSMAN, E. J. La adulteración de la leche. *Indus. Lechera* 31(354): 29-30. Jan. 1949. 44.8 In26
- 47324 DAHLE, C. D. Outline of defects in ice cream. *Confectionery-Ice Cream World* 41(12): 13, 15. Mar. 25, 1949. 389.8 C767
- 47325 DUMAIS, R. La qualité du lait. III. Québec Lait. 8(3): 13-15. Mar. 1949. 44.8 Q3
- 47326 GRAY, N. T. Cooling versus low grades. *Butter-fat [Vancouver]* 26(13): 2. Apr. 1949. 44.8 B98
- Milk.
- 47327 GREENBANK, G. R. The oxidized flavor in milk and dairy products: a review. *J. Dairy Sci.* 31: 913-933. Ref. Oct. 1948. 44.8 J822
- 47328 GUNDLACH, G. P., and ESMOND, C. W. Merchandising a single grade of all-purpose cream. *Milk Dealer* 38(7): 41, 92. Apr. 1949. 44.8 M595
- 47329 HENNERICH, G. W. Sanitation—an invitation to buy. *Ice Cream Rev.* 32(8): 138, 140-141. Mar. 1949. 389.8 Ic22
- 47330 HISCOX, E. R. Biological stability of condensed and evaporated milk. (Abs.) *Milk Messenger* 26(3): 2-4. Mar. 1949. 44.8 M5925
- 47331 HORWITZ, B. M. Field control of a municipal milk supply. *So. African Dairyman* 11: 71, 73, 75, 77, 79. (To be cont.) Mar. 1949. 44.8 So822
- 47332 KOHR, L. A. Milk standards for health. *Standards World* 1(2): 91-106. Spring 1949. 309.8 St22
- 47333 MAGALHÃES, O. DE, and ROCHA, A. A contribution to the better understanding of neotropical exanthematic typhus in Brazil. Presence of the virus in milk. *Inst. Oswaldo Cruz Mem.* 46: 269-283. Mar. 1948. 448.9 In74
- English summary.
- 47334 MANHART, V. C. Sediment in milk—let's keep it out. *Purdue U. Agr. Ext. Leaflet* 280, rev., 7 p.-folder. 1949. 275.29 In2L
- 47335 MAUSOLF, M. Vorzugsmilch. *Landw. Informationsdienst* 1949: 2. 18 L2312



47336 MEYN, A. Tuberkulose und milchhygiene. Deut. Tierärztl. Wchnschr. 55: 167-169. June 1, 1948. 41.8 D482

47337 NEWLANDER, J. A. Flavors in milk—causes and prevention. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 3-5. 1948. 44.9 V593

Also in Canad. Dairy & Ice Cream J. 28(3): 88, 90. Mar. 1949. 44.8 C162

47338 PROVIDENCE. MILK DEPT. Quarterly and annual report of the quality of milk sold in Providence by retail distributors. 1948. 6 p. 44.9 P942

47339 REEVES, E. C. Converting to grade A milk production. Milk Dealer 38(6): 64, 66. Mar. 1949. 44.8 M595

47340 RICH, A. B., and ROBERTSON, D. S. Q fever a problem to the milk industry. Mil. Surg. 104: 276-277. Apr. 1949. 44.8 M59

47341 SULLIVAN, C. C. Federal food and drug laws and the dairy industry. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 6-9. 1948. 44.9 V593

47342 TRACY, P. H. Keeping quality of dried milk and milk products. Cherry-Burrell Circle 34(3/4): 3-5, 22. Ref. Mar./Apr. 1949. 44.8 C42

47343 WALLENFELDT, E. We must improve quality. Hoard's Dairyman 94: 253. Mar. 25, 1949. 44.8 H65 Sanitation.

47344 WILSTER, G. H., HOWE, D. K., and JENSEN, C. A study of extraneous material in milk, cream, and butter. Natl. Butter & Cheese J. 40(4): 30, 32, 64. Apr. 1949. 286.85 B98Bu

#### Packing and Packaging

47345 ABELE, C. A. Can-washer operation and maintenance. II. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 41-44. 1948. 44.9 V593

47346 ARCHER, O. L. Experience with square milk bottles at Kirkland Lake, Ont. Canad. Dairy & Ice Cream J. 28(3): 47-48. Mar. 1949. 44.8 C162

47347 FAUST, H. P. Can washers, I. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 38-40. 1948. 44.9 V593

47348 GREENWOOD, R. Experience with square milk bottles at Hamilton, Ont. Canad. Dairy & Ice Cream J. 28(3): 45-46. Mar. 1949. 44.8 C162

47349 KELLOGG, W. D. Prospectus for packages. Ice Cream Field 53(3): 75. Mar. 1949. 389.8 Ic23

47350 PFEFFER, J. C. Package ice cream. Ice Cream Rev. 32(9): 148-149. Apr. 1949. 389.8 Ic22

47351 POMPA, A. Pre-packed ice-cream in America. Food [London] 18: 116. Apr. 1949. 389.8 F738

47352 RAZEE, A. H. How polyphosphates improve can washing. III. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 45-48. 1948. 44.9 V593

47353 RUEHE, H. A. What the Paraffined Carton Research Council means to the butter industry. Amer. Butter & Cheese Rev. 11(3): 22, 31-32, 41. Mar. 1949. 44.8 Am37

47354 SHOGREN, C. B. Mechanical can washing. Amer. Butter & Cheese Rev. 11(3): 40B-40C. Mar. 1949. 44.8 Am37

Similar title in Milk Dealer 38(7): 76, 78, Apr. 1949 (44.8 M595) and South. Dairy Prod. J. 45(4): 35, 44, Apr. 1949 (44.8 So83).

47355 SINDORF, R. New packaging for Swiss. Amer. Butter & Cheese Rev. 11(3): 30-31. Mar. 1949. 44.8 Am37

#### Prices, Price Control, and Rationing

47356 APLIN, R. D. Aplin tells how formula will work and what farmers may expect in the future. Milk-pail 1948: 5, 10. Mar./Apr. 1948. 44.8 M5932

Pricing formula of the Boston Milkshed Price Committee.

47357 BREART, G. Voici comment il faut calculer le prix du lait. J. de la France Agr. 5: 161, 165. Apr. 1/7, 1949. 14 J829

47358 BRESSLER, R. G., JR. Milk price formulas. Calif. Milk News 33: 5, 10. Apr. 1, 1949. 44.8 C124

47359 COLLISON, C. F. How the cut in milk production upped 1948 butter price. Com. West 97(13): 13. Mar. 26, 1949. 286.8 C733

47360 HOLMAN, C. Fight dairy farmers face. Land O'Lakes News 29(3): 26. Mar. 1949. 44.8 L22

Price supports for milk and margarine regulation.

47361 MYRICK, N. New formula for New York. Amer. Milk Rev. 11(3): 10, 62. Mar. 1949. 44.8 Am38

47362 NADEN, K. D. Price policy of the Challenge Cream & Butter Association. I. J. Mktg. 13: 459-469. Apr. 1949. 280.8 J82

A cooperative.

47363 SADORGE. Les vaches. Défense Agr. de la Beauce et du Perche 46: 49-50. Feb. 20, 1949. 14 D36 Milk prices.

47364 SPENCER, L. A revision of the Cornell series of prices paid producers for milk in the New York milkshed. N. Y. Agr. Col. Farm Econ. 167: 4335-4336. Mar. 1949. 280.8 C812

47365 VIAL, E. E. Some effects of dairy products prices on class I prices. Milk Dealers' Assoc. Metrop. N. Y. Monthly Membership Let. 37, 12 p. Mar. 25, 1949. 280.3449 M593

#### Processing and Storage

47366 ALTENRIED, K. Vorbereiten oder zentrifugieren in emmentalerkäseereien? Allgäuer Bauernbl. 17: 141. Mar. 18, 1949. 18 AL53

47367 AMERICAN DAIRY ASSOCIATION. RESEARCH COMMITTEE. Search in science. n. p., 1949? 42 p. 44.9 Am36

47368 ANGEVINE, N. C. The manufacture of quality buttermilk. South. Dairy Prod. J. 45(4): 88-91, 100-102. Apr. 1949. 44.8 So83

47369 BACHELLERIE, G. Comment choisir le matériel de laiterie. Action Lait. (n. s.) 5(25): 5. Feb. 20, 1949. 44.8 Ac8

47370 BALLARIN, O. Aspects and tendencies of present dairy research. (In Portuguese.) B. do Leite (ser. 4) 2(19): 1-4; (20): 1-4. (Cont.) Jan.-Feb. 1949. 44.8 B633

47371 BARON, M. Further studies of rheological properties of cheese during manufacture and ripening. II. Dairy Indus. 14: 255-263. Mar. 1949. 44.8 D1427

47372 BELOUSOV, A. Improved system of cheese pressing. (In Russian.) Moloch. Promysh. 9(10): 15-17. Oct. 1948. 44.8 M734

47373 BLAIN, J. La production hygiénique du lait dans l'Etat de New-York. Indus. Lait. [Paris] 30: 9-14. Mar. 1949. 44.8 In2

47374 BRADFIELD, A. Report on new equipment at the Dairy Industries Exposition. Vt. U. and State Agr. Col. Dept. Anim. and Dairy Husb. [Papers presented at] Ed. Conf. for Dairy Plant Oper. and Milk Distrib. 27: 27-29. 1948. 44.9 V593

47375 BURKE, A. D. Trouble shooting in the milk and ice cream plant. South. Dairy Prod. J. 45(4): 33, 40-44. Apr. 1949. 44.8 So83

Excerpts in Milk Dealer 38(7): 48, 92-93. Apr. 1949. 44.8 M595

47376 BURTON, H. Will radiations replace heat treatment of milk? Dairyman 66: 197, 205. Apr. 1949. 44.8 D1426

47377 BUTTERMAKING industry in New Zealand. Irish Agr. & Creamery Rev. (n. s.) 18(182): 15-19. (To be cont.) Feb. 1949. 44.8 C866

47378 BUTZ, D., and KOLLER, E. F. Problems in the Minnesota dry milk industry. Minn. U. Agr. Ext. Farm Business Notes 313: 1-3. Feb. 28, 1949. 275.29 M663

47379 CARVEL, T. Frozen custard. South. Dairy Prod. J. 45(4): 60. Apr. 1949. 44.8 So83

47380 CASTLE, M. E., and GLÜCKSMANN, E. J. Condensed milk. Dairy Indus. 14: 270-273. Mar. 1949. 44.8 D1427

47381 CHARON, A. J. Comment prévenir les vers des fromages de chèvres. Rustica 22: 181. Feb. 27, 1949. 14 R92

47382 CHERNOSHCHIEKOV, V., and DUDENKOV, A. Churning machine with blades. (In Russian.) Moloch. Promysh. 9(10): 24-27. Oct. 1948. 44.8 M734



- 47383 CIOFFI, R. M. The dairy industry and typical processes: industrial processes. (In Italian.) *Alimenti* 5: 12-14. (Cont.) Jan. 1949. 389.8 AL44
- 47384 COLLINS, M. A. Detergent sanitizers improve milk quality. *Metrop. Milk Prod. News* 9(4): 12-13. Apr. 1949. 280.28 M56
- 47385 COLVARD, C. D., and ROBERTS, W. M. Frozen concentrated milk. *Milk Dealer* 38(7): 46, 100, 102, 104, 106. Apr. 1949. 44.8 M595
- 47386 CORRY, J. R. How to produce clean milk. South. Rhodesia. Dept. Agr. and Lands. B. 1454, 7 p. 1948? 24 R345  
Also in Rhodesia Agr. J. 45: 430-435. Sept./Oct. 1948. 24 R34
- 47387 COSTILOW, R. N., SPECK, M. L., and ROBERTS, W. M. The manufacture of cultured butter-milk from non-fat dry milk solids. *Milk Plant Monthly* 38(4): 36-41. Ref. Apr. 1949. 44.8 C864
- 47388 DAHLE, C. D. Making good ices and sherbets. *Ice Cream Rev.* 32(9): 78, 80, 82, 84, 86, 88-89. Apr. 1949. 389.8 Ic22  
Similar title in *Confectionery-Ice Cream World* 41(13): 11, 20; (14): 14-15. Apr. 1-8, 1949. 389.8 C767
- 47389 DÉRIBÈRE, M. Le rayonnement infra-rouge et ses applications en industrie laitière. *Indus. Lait. [Paris]* 30: 15-21. Mar. 1949. 44.8 In2
- 47390 DEXX, H. G. Préparation et emploi thérapeutique de lait aigre sous les tropiques. (Abs.) *Internat. Cong. Microbiol. Rpt. Proc.* (1947) 4: 501. 1949. 442.9 In83
- 47391 DOWNS, P. A. The manufacture of export-type Cheddar cheese from pasteurized milk. *Nebr. Agr. Expt. Sta. B.* 390, 32 p. Ref. Dec. 1948. 100 N27
- 47392 EVANS, O. R. The plant that surplus built. *Family Herald & Weekly Star* 80(11): 3, 19. Mar. 16, 1949. 7 F21  
Milk plant of the Montreal Milk Producers' Co-operative Agricultural Association.
- 47393 FLACCOMIO, E. Pectin in the cheese industry. (In Italian.) *Allevatore* 4(5): 7. Jan. 30, 1949. 49 AL55
- 47394 GOULD, I. A. Recent developments in ice cream. *Ice Cream Rev.* 32(9): 165-166. Apr. 1949. 389.8 Ic22  
Manufacture.
- 47395 HANSEN, A. Roquefort mold. (In Danish.) *Nord. Mejeri-Tidsskr.* 15(2): 17-20. Ref. 1949. 44.8 N752
- 47396 HEINRICHS, E. Der molkeret-fachmann. 1. Hildesheim, Die Molkeret-Zeitung, 1948. 155 p. 44 H3672
- 47397 HERREID, E. O., and FRANCIS, J. The effect of handling and processing of milk on its oxygen content. *J. Dairy Sci.* 32: 202-208. Ref. Mar. 1949. 44.8 J822
- 47398 HETRICK, J. H., and TRACY, P. H. Effect of high-temperature short-time heat treatments on some properties of milk. I-II. *J. Dairy Sci.* 31: 867-879, 881-887. Ref. Oct. 1948. 44.8 J822  
I. Inactivation of the phosphatase enzyme; II. Inactivation of the lipase enzyme.
- 47399 HEYL, R. E. High conversion corn syrup and its use in ice cream. *Ice Cream Field* 53(3): 78-80. Mar. 1949. 389.8 Ic23
- 47400 HOFFMAN, G. T. Freezing bananas with ice cream. *Confectionery-Ice Cream World* 41(14): 23. Apr. 8, 1949. 389.8 C767
- 47401 HOOD, E. G., and KATZNELSON, H. The effect of penicillin on the acid-producing ability of starters. *Canad. Dairy & Ice Cream J.* 28(3): 32-33. Mar. 1949. 44.8 C162  
For cheese.
- 47402 HOPKINS, D. P. Why pasteurization? *Milk Indus.* 29(10): 56-59. Apr. 1949. 44.8 M593  
Milk.
- 47403 HUNZIKER, O. F. Condensed milk and milk powder prepared for factory, school and laboratory. Ed. 7, completely rev. La Grange, Ill., 1949. 630 p. Ref. 44 H92
- 47404 IRVINE, O. R. Cheddar cheese manufacture. Ontario. Dept. Agr. B. 461, 45 p. Jan. 1949. 101 On8B
- 47405 JESPERSEN, N. J. T. A Danish opinion on Netherlands dairy manufacture. (In Dutch.) *Alg. Nederland. Zuivelbond. Off. Orgaan* 41: 88-89. Mar. 16, 1949. 44.9 AL3
- 47406 JOHNS, C. K. Chemical sterilizers in the dairy industry. *Canad. Dairy & Ice Cream J.* 28(3): 29-31. Mar. 1949. 44.8 C162
- 47407 JORDAN, W. K., HOLLAND, R. F., and WHITE, J. C. The determination of the holding time in high-temperature, short-time pasteurizing units. *J. Milk & Food Technol.* 12: 87-92. Mar./Apr. 1949. 44.8 J824
- 47408 KIVENKO, S. F., and LEBEDEV, N. A., comp. *Sbornik instruktsii, standartov i tekhnicheskikh uslovii po proizvodstvu molochnykh konservov* [Collection of instructions, standards and technical conditions for the production of milk products]. Moskva, Pishchepromizdat, 1948. 365 p. 44 K653
- 47409 KNIGHT, S. G. Molds in the dairy plant. *Milk Plant Monthly* 38(4): 82-83. Apr. 1949. 44.8 C864  
Preventive measures.
- 47410 KONOVALOV, V. Effect of coating on the ripening of cheese. (In Russian.) *Moloch. Promysh.* 9(10): 21-23. Oct. 1948. 44.8 M734
- 47411 LETHEM, W. A. The pasteurisation of milk. *Pharm. J. [London]* 162: 253-254. Apr. 2, 1949. 396.8 P49
- 47412 MCKENNA, B. Refrigeration in the dairy plant. *Ice & Refrig.* 116(4): 37-39. Apr. 1949. 295.8 Ic2
- 47413 MATA LLANA VENTURA, S. Conservación racional de la leche. Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad. 6(61): 17-20. Oct. 1948. 15 B14
- 47414 MILLER, I. C. Supply plus engineering equals quality; eastern dairy company proves it—by adding Midwest plants for constant cream flow and by developing new processes and equipment, thus assuring first class product. *Food Indus.* 21: 438-441, 482. Apr. 1949. 389.8 F737
- 47415 MINSTER, C. H. Practical ammonia refrigeration for ice cream plants. III-IV. *Ice Cream Rev.* 32(8): 46, 50, 52, 54, 56, 58, 60; (9): 44, 94, 96, 98, 100, 102, 104, 106. Mar.-Apr. 1949. 389.8 Ic22
- 47416 MINTHORN, C. M. HTST production and pasteurization of ice cream mix. *Ice Cream Rev.* 32(8): 38-39, 94, 96. Mar. 1949. 389.8 Ic22
- 47417 MINUT, J. Un queso fresco de inmediato consumo; contingencias práctico - tecnológicas. *Indus. Lechera* 31(354): 32-36. (Cont.) Jan. 1949. 44.8 In26
- 47418 MIRONENKO, A. Introduction of lactic acid cultures into butter granule during manufacture. (In Russian.) *Moloch. Promysh.* 9(10): 37-38. Oct. 1948. 44.8 M734
- 47419 MOORMAN, H. E. An investigation of bacteriophage in cheese starters. Urbana, Ill., 1949. 6 p. 448.2 M783  
Abstract of thesis—University of Illinois.
- 47420 MORI, C. DE. Milk and the ice cream industry. (In Italian.) *Mondo del Latte* 1949: 43-44, 46, 52. (Cont.) Feb. 1949. 44.8 M74  
French and English summary.  
Ice cream manufacture.
- 47421 MORK, I., NILSEN, A., and AASAREN, O. Experiments on mechanical molding of mixed goats whey cheese. (In Norwegian.) *Norges Landbrukshøgsk. Meld.* 28: 423-451. 1948. 104 N762M  
Supplement, by A. T. Bergum, p. 452-462.
- 47422 MOUCHOT, J. C. Quelle quantité de lait faut-il écrémer? *Tech. Lait.* 5(48): 11-12. Mar. 11, 1949. 44.8 Of2
- 47423 OBRE, F. L'hygiène laitière dans les Deux-Sèvres et les Charentes. *Agriculture [Paris]* 13: 83-86. Mar. 1949. 14 Ag823
- 47424 OLSSON, T. Some observations on the influence of the treatment of the cream on the hardness and consistency of butter. (In Swedish.) *Alnarps Lantbr., Mejeri- och Trädgårdsinst. Årsskr.* 1948: 225-253. Ref. 1949. 104 Sw3Ar  
English summary.
- 47425 OVERBY, A. J. Troublesome bacteriophages in cheese manufacture. (Excerpt.) (In Danish.) *Nord. Mejeri-Tidsskr.* 15(2): 22-24. 1949. 44.8 N752  
The dairy industry in England with special attention to cheese manufacture.
- 47426 PATTERSON, V. C. Safe application and operation of ammonia equipment in the ice cream plant. *Ice Cream Rev.* 32(8): 142-144. Mar. 1949. 389.8 Ic22



- 47427 PAUL, P., and PLUMMER, J. Home storage of nonfat dry milk solids. *J. Home Econ.* 41: 198-200. Apr. 1949. 321.8 J82
- 47428 PEREPECHKO, V. Motorization of the establishments of the Sverdlovsk Milk Combine. (In Russian.) *Moloch. Promysh.* 9(10): 12-14. Oct. 1948. 44.8 M734
- 47429 PESHKOV, V. An effervescent milk beverage. (In Russian.) *Moloch. Promysh.* 9(10): 44-45. Oct. 1948. 44.8 M734
- 47430 PETTE, J. W. The production of aromatic butter in the factory. (In Dutch.) *Alg. Nederland. Zuivelbond. Off. Orgaan* 41: 110-111, 118-119. Mar. 30-Apr. 6, 1949. 44.9 AL3
- 47431 PLIAKHIN, G. Butter melting at the small establishments. (In Russian.) *Moloch. Promysh.* 9(10): 34-35. Oct. 1948. 44.8 M734
- Butter oil.
- 47432 RANDALL, R. Frozen homogenized milk for army use. *J. Milk & Food Technol.* 12: 101-103. Mar./Apr. 1949. 44.8 J824
- 47433 RESUGGAN, J. C. L. Detergency. 4-5. *Milk Indus.* 29(9): 43-49; (10): 41-44. Mar.-Apr. 1949. 44.8 M593
- 47434 RIBEIRO, J. DE A. Production of genuine North-Brazil cheese. (In Portuguese.) *Rev. dos Criadores* 20(2): 39-42. Feb. 1949. 43.8 R32
- 47435 ROBINSON, E. A. Engineered sanitation. *Natl. Butter & Cheese J.* 40(4): 26-27, 40, 42-43. Apr. 1949. 286.85 B98Bu
- 47436 ROMANOV, A. Quality of casein and the technological system of manufacturing it. (In Russian.) *Moloch. Promysh.* 9(10): 18-20. Oct. 1948. 44.8 M734
- 47437 SHADWICK, G. W. Significance and control of coliform in ice cream making. *Canad. Dairy & Ice Cream J.* 28(3): 74, 76, 78. Mar. 1949. 44.8 C162
- 47438 SHAMGIN, V. Utilization of whey in ice cream manufacture. (In Russian.) *Moloch. Promysh.* 9(10): 45. Oct. 1948. 44.8 M734
- 47439 SHAW, C. Frozen custard. *Confectionery-Ice Cream World* 41(12): 16. Mar. 25, 1949. 389.8 C767
- 47440 SHEURING, J. J. Some factors influencing shrinkage in ice cream. *Ice Cream Rev.* 32(8): 44, 129-133. Mar. 1949. 389.8 Ic22
- 47441 SIDOROVA, E. Production of lactose at the butter dairies. (In Russian.) *Moloch. Promysh.* 9(10): 38-39. Oct. 1948. 44.8 M734
- 47442 SMITH, J. A. B. El Instituto Hannah de Investigaciones relacionadas con la industria lechera. *Indus. Lechera* 31(354): 21-27. Jan. 1949. 44.8 In26
- 47443 SOROKIN, V. V. Syrodelie [Cheese manufacture]. *Moskva, Pishchepromizdat*, 1948. 127 p. 44 So65
- 47444 SREBNÍAK, V. Use of brine in salting butter. (In Russian.) *Moloch. Promysh.* 9(10): 42-43. Oct. 1948. 44.8 M734
- 47445 STEVENS, A. H. The preparation of dried whey-potato mixtures. *Natl. Butter & Cheese J.* 40(4): 28-29, 60, 62. Apr. 1949. 286.85 B98Bu
- 47446 SURKOV, V. The theory of cavitation and the process of butter churning. (In Russian.) *Moloch. Promysh.* 9(10): 28-31. Oct. 1948. 44.8 M734
- 47447 THOMÉ, K. E., and LINDGREN, B. The heat resistance of propionic acid bacteria to H. T. S. T. pasteurisation. (In Swedish.) *Alnarps Lantbr.-, Mejeri- och Trädgårdstinst. Årsskr.* 1948: 145-169. Ref. 1949. 104 Sw3Ar
- English summary.
- Cheese.
- 47448 THOMÉ, K. E., BERGMAN, T., and HOFF, S. Low-temperature storage experiments with cheese. (In Swedish.) *Alnarps Lantbr.-, Mejeri- och Trädgårdstinst. Årsskr.* 1948: 83-144. 1949. 104 Sw3Ar
- English summary.
- 47449 THOMSEN, L. C. Workmanship for best creamery butter. *Creamery J.* 60(4): 5, 28-30. Apr. 1949. 44.8 C86
- 47450 TOWNSEND, P. S. Wensleydale cheesemaking at Kirby Malzead. *Dairy Indus.* 14: 276-279. Mar. 1949. 44.8 D1427
- 47451 TUPITSYN, V. Method of molding and pressing of Iaroslav cheese. (In Russian.) *Moloch. Promysh.* 9(10): 36-37. Oct. 1948. 44.8 M734
- 47452 VINCENT, W. The Food & Drug Administration and dairy sanitation. *Amer. Milk Rev.* 11(3): 54-57. Mar. 1949. 44.8 Am38
- 47453 WATSON, T. H., JR. Trouble shooting in dairy plant refrigeration. *Ice Cream Rev.* 32(9): 60, 62, 64. Apr. 1949. 389.8 Ic22
- 47454 WEED, E. Ice cream flavors come of age. *Ice Cream Field* 53(3): 81-82. Mar. 1949. 389.8 Ic23
- 47455 WENGER, G. Die herstellung von käse mit bestimmtem fettgehalt. *Schweiz. Milchztg.* 75: 113-115. Mar. 11, 1949. 44.8 Sch92
- 47456 WIECKERS, M. S. G. New method for improving the quality of whey. (In Italian.) *Latte* 23: 17. Jan. 1949. 44.8 L35
- 47457 WILLARD, H. S. Storage of cottage cheese. *South. Dairy Prod. J.* 45(4): 150-151. Apr. 1949. 44.8 So83
- 47458 WILSTER, G. H. Modern trends in the pasteurization of ice cream mix. *Ice Cream Field* 53(3): 88, 90-94. Ref. Mar. 1949. 389.8 Ic23
- 47459 WOLFRUM, O. C. Eine wirtschaftlichere methode der milchhomogenisierung. *Österr. Milch- u. Fettwirtschaft* 4: 35-36. Feb. 1949. 44.8 Os72
- 47460 YUSEF, H. M. Cultured buttermilk: how its flavor is produced by microorganisms. *N. Y. Bot. Gard. J.* 50: 87-89. Apr. 1949. 451 N48J

## Statistics

- 47461 AUSTRALIA. BUREAU OF CENSUS AND STATISTICS. A summary of the dairying industry in Australia year ended December, 1948. Mar. 17, 1949. 24 p. 271 Au72Su
- 47462 DAIRY LISTING SERVICE. Dairy and poultry year book, 1947. 1948. 184 p. 44.9 D142
- Statistics of the industry.
- 47463 GORNALL, W. B. Milk production in England and Wales. *Overseas Rpt. Agr. Devlpmt.* 25, 3 p. Apr. 1949. 281.9 C16420
- Statistics.
- 47464 NORWAY. STATISTISK SENTRALBYRÅ. Meieribruket i Norge; l'industrie laitière de la Norvège, 1947. 63 p. Oslo, 1949. 44.9 N832
- Statistics.
- 47465 RICE, E. B., TREACY, F., and MCCABE, N. Queensland butter production, 1947-1948. *Queensland Agr. J.* 67: 344-358. Dec. 1948. 23 Q33
- Statistical summary of production and gradings.
- 47466 SVENSKA MEJERIERNAS RIKSFÖRENING. Management studies for Swedish creameries, XV, the bookkeeping year 1947. (In Swedish.) *Halmstad*, 1948. 160 p. 281.3449 Sv2
- Statistics on production and prices of milk and dairy products in Sweden.
- 47467 U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho milk production, 1948. *Boise*, 1949. 2 p. 1.941 H8M62
- 47468 VEZZANI, V. Dairy statistics of Switzerland. (In Italian.) *Mondo del Latte* 1949: 47, 49-50. Feb. 1949. 1949. 44.8 M74
- French and English summary.

## FEED AND FORAGE CROPS

- 47469 BANTIEN, A. M. Will the feed dealer encounter another depression. *Feedstuffs* 21(16): 42-45. Apr. 16, 1949. 286.81 F322
- 47470 BERGER, W. C. Demand for distillers feeds in the feed outlook. *Conf. Feeds Grain Distill. Proc.* 4: 134-136. 1949. 389.79 C765
- 47471 BURKE, J. D. Selling a feed program. *Grain & Feed J. Consolidated* 102(5): 28-29. Mar. 9, 1949. 298.8 G762
- 47472 CANADA. BUR. OF STATISTICS. AGRICULTURAL DIVISION. Feed mills in Canada 1948. 1948. 23 p. 225 C1632F
- A list.
- 47473 CONCHA ACUÑA, A. El problema forrajeras de rulos. *Agrario* 14(405): 10. Jan. 1949. 9.3 Ag85
- Chile.
- 47474 COURTILS, A. DES. Le marché des aliments du bétail simples ou composés. *Action Lait. (n. s.)* 5(25): 1. Feb. 20, 1949. 44.8 Ac8
- France.
- 47475 CROSSEN, F. Making better hay with CCA [Consumers Cooperative Association]. *News Farmer Coops.* 15(12): 9, 18. Mar. 1949. 166.2 N47
- Dehydrated alfalfa and alfalfa meal produced at the cooperative plant in Kansas City, Mo.



- 47476 DE BECZE, G. I. Factors affecting the composition of distillers feeds. *Conf. Feeds Grain Distill. Proc.* 4: 64-76. 1949. 389.79 C765
- 47477 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. FEED AND FERTILIZER DEPT. Quarterly report on official feed samples analyzed. *Ky. Agr. Expt. Sta. Regulat. B.* 70, 26 p. July/Sept. 1948. 100 K41
- 47478 MIEGE, E. Les besoins de la France en aliments importés du bétail. *Inform. Maroc.* 411: 1, 4; 412: 1, 4; 413: 1, 3. Nov. 27-Dec. 11, 1948. 281.8 In3
- 47479 MISSISSIPPI. STATE DEPT. OF AGRICULTURE. Report of analyses of commercial feeds and cottonseed meal 1948. 1949. 92 p. 2 M694
- 47480 OLSSON, N., KIHLEN, G., and KOHLER, G. Laboratory investigations about maintenance of carotene in carrots and young red clover during artificial drying, wet preserving and subsequent storage. (In Swedish.) Sweden. *Lantbrukshögsk. Husdjursförsöksanst. Meddel.* 34, 23 p. 1948. 104 Up62  
English summary.
- 47481 PAUL, S. DE. Granos forrajeros y lino: perspectivas para su producción y comercialización. *Cooperación [Buenos Aires]* (ser. 2)16(1057): 3. Mar. 11, 1949. 280.28 C7876  
Argentina.
- 47482 PEDERSEN, N., and SØRENSEN, A. J. Our feed production. (In Danish.) *Dansk Landbr.* 68: 114-116. Mar. 3, 1949. 280.28 V91
- 47483 PEROV, S. S. Fundamental principles of the technology of pure vegetable protein for feed. (In Russian.) *Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok.* 13(10): 3-12. Ref. 1948. 20 Akl
- 47484 PHILLIPS, C. What the farmer wants; the successful feed dealer will know. *Feedstuffs* 21(12): 21-22. Mar. 19, 1949. 286.81 F322
- 47485 ROSSOW, N. R. Feed packaging costs. *G. L. F. Week. Serv. Sched.* 13(44): 3. May 2, 1949. 280.28 G113W
- 47486 SCHAUS, R. Operation haylift; flying boxcar 'bombs' snowbound reservation with four-ton load of hay. *West. Livestock J.* 27(22): 28, 59. Mar. 15, 1949. 6 F2278
- 47487 SNOW, D. The influence of humidity on the growth of moulds which cause deterioration of stored feeding stuffs. (Abs.) *Internatl. Cong. Microbiol. Rpt. Proc.* (1947) 4: 513-514. 1949. 442.9 In83

## FIBERS AND TEXTILES

- 47488 ALEXANDER, P., CARTER, D., and EARLAND, C. The application of organosilicon polymers to wool. *Soc. Dyers and Colourists. J.* 65: 107-115. Mar. 1949. 306.9 So1
- 47489 AMERICAN WOOL COUNCIL. Wool research project. New York, 1948. 5 p. 45 Am34
- 47490 ANDERSON, M. A. Ninety years development: fundamentals and technicalities of futures trading explained. *Cotton Digest* 21(27): 18-19, 42-43, 46-47. Mar. 26, 1949. 286.82 C822
- 47491 THE ANTI-WRINKLE textile resins. *Fortune* 39(4): 124, 126, 128, 130, 132. Apr. 1949. 110 F772
- 47492 ANTONIUS, C. The Alexandria cotton futures exchange: a brief summary on its functioning. *Egypt. Cotton Gaz.* 6: 65-87. Jan. 1949. 72.8 Eg9
- 47493 ARGENTINA. SECRETARIA DE INDUSTRIA Y COMERCIO. DIRECCIÓN DE ALGODÓN. DIVISIÓN DE ECONOMÍA. La industrialización de fibra de algodón en la República Argentina, año 1947. Aug. 1948. 17 p. 304.9 Ar3  
Statistics.
- 47494 AUGER, A. La situation actuelle de notre industrie linière. *Agriculture [Montreal]* 5: 359-360. Dec. 1948. 7 Ag82
- 47495 AUSTRALIA. AUSTRALIAN WOOL BD. 12th annual report, 1947/48. 1948. 32 p. 286.3459 Au72
- 47496 BAILEY, R. G. Some wool trade problems: prices and marketing policy. *Textile Mercury & Argus* 120(3129, sup.): 39. Mar. 25, 1949. 304.8 T318
- 47497 BARONA, G. El botón de muestra de la lana. *Ganadería [Madrid]* 6: 372-373. July 1948. 49 G15
- 47498 BEERNAERTS, P. L'industrie textile dans l'Union Indienne. *Monit. Textile* 11(4): 41, 43, 45, 47, 49, 51, 53-54. Apr. 1949. 304.8 M74
- 47499 BOGATY, H. Deterioration of cotton textiles exposed to the weather. *Amer. Dyestuff Rptr.* 38: 253-259. Mar. 21, 1949. 306.8 Am3
- 47500 BÖHRINGER, H. Werkstoff zellwolle. *Melliand Textilber.* 29: 255-258, 289-294. (Cont.) Aug.-Sept. 1948. 304.8 T312  
English and French summary.
- 47501 BOYER, J. M. Increased Egyptian cotton yield obtained high prices last year. *Foreign Trade* 5: 544-546. Mar. 12, 1949. 286.8 C162
- 47502 BOYLSTON, H. G. The 1948 cotton contest for better quality and higher yields. *Clemson Agr. Col. S. C. Ext. C.* 325, 34 p. Jan. 1949. 275.29 So8E
- 47503 BRITISH COTTON GROWING ASSOCIATION. Forty-fourth annual report and statement of accounts for the twelve months ended December 31st, 1948. Manchester, 1949. 23 p. 72.9 B77P
- 47504 BROWN, H. F. Notes on the 'get-up' and disposal of the New Zealand wool clip. *Wool* 1: 7-9. Aug. 1948. 45.8 W887  
Notes from an address.
- 47505 CALDWELL, S. A. G. Modern jute manufacture. VII. *Fibres* 10: 100-102. Mar. 1949. 304.8 F16
- 47506 CALIFORNIA'S cotton rush. *Fortune* 39(5): 85-88, 130, 132, 134, 136-138, 140. May 1949. 110 F772
- 47507 CARRERAS PALET, J. Problemas de la elaboración de las fibras textiles. 3. *Textiles Panamer.* 9 (4): 49, 51, 76-81. Apr. 1949. 304.8 T3142
- 47508 CARTER, S. You can use fiber tests to bolster yarn strength. *Textile World* 99: 118-119, 245-246, 248. Apr. 1949. 304.8 T315  
Cotton.
- 47509 CLARKE, E. A. The significance of unevenness in wool. *Wool* 1: 30-31, 35. Aug. 1948. 45.8 W887
- 47510 COX, A. B. Cotton markets and cotton merchandising. Ed. 2, rev. Austin, Tex., Hemphill, 1949. 183 p. 286.372 C83
- 47511 DABBOUS, R. The statistical position of Egyptian cotton at the 31st December, 1948. *Egypt. Cotton Gaz.* 6: 89-99. Jan. 1949. 72.8 Eg9
- 47512 DALE, M. R. M. Rayon industry in Australia is planning higher production. *Foreign Trade* 5: 610-611. Mar. 19, 1949. 286.8 C162
- 47513 DOBBINS, E. D. New horizons for rayon staple. *Canad. Textile J.* 66(7): 42-45. Apr. 1, 1949. 304.8 C16
- 47514 DÖHLE, W. Die chemische bleiche; ein geschichtlicher Überblick über die Entwicklung der bleiche von Cellulosematerialien. *Textil-Rundschau* 4: 81-86. Ref. Mar. 1949. 304.8 T3139
- 47515 DORMAN, H. J., and PRINGLE, A. V. The carding of jute and flax. *Textile Inst. J.* 40: P117-P131. Feb. 1949. 73.9 T31  
Includes discussion.
- 47516 DUBRULLE, M. An eminently noble product. *Wolboer* 1949(18): 11-12. Jan. 1949. 45.8 W83  
Wool.
- 47517 DUCROZ, J. P. The London wool market. *Wool* 1: 27-28. Aug. 1948. 45.8 W887
- 47518 DUNCAN, G. A. Post-war marketing of wool. *Wool* 1: 17. Aug. 1948. 45.8 W887
- 47519 DUNCAN, J. E. The case for a wool testing house in New Zealand. *Wool* 1: 37-38, 43. Aug. 1948. 45.8 W887
- 47520 ECKARDT, A. Hanf. Kurzbrieft f. Ernähr. u. Landw. 12, A II 4, 2 p. (Concl.) Dec. 1948. 281.8 K96
- 47521 ELÖD, E., and ZAHN, H. Zur kenntnis von querbindungen in wolle. II. *Melliand Textilber.* 29: 269-270. Aug. 1948. 304.8 T312  
English and French summaries.
- 47522 EVANS, R. B. Cotton's increasing competition. *Textile B.* 75(3): 39-40, 42, 44, 46. Mar. 1949. 304.8 So82
- 47523 GASHE, R. The Egyptian cotton industry, a study in development. *Egypt. Cotton Gaz.* 6: 21-25. Jan. 1949. 72.8 Eg9
- 47524 GAUTIER, J. Comment améliorer le prix de revient de l'égrenage et du transport du coton en A.E.F. *Coton et Fibres Trop.* 3: 43-48. Aug. 1948. 73.8 C82
- 47525 GILLIEAUX, P. Il faut frapper plusieurs fois sur le meme clou. *Rev. Colon. Belge* 4: 42-45. Jan. 15, 1949. 110 R324  
Native cotton production in the Belgian Congo.



- 47526 GMINDER, E. Der deutsche hanf. Textil-Praxis 4: 90-92. Mar. 1949. 304.8 T3143
- 47527 GOODALE, E. W. Dawn of a new era for silk. Textile Mercury & Argus 120(3129, sup.): 53-54. Mar. 25, 1949. 304.8 T318
- 47528 GUHA, S. K. A plea for establishment of a fibre development board. Indian Textile J. 59: 451-452. Feb. 1949. 304.8 In2
- 47529 GUPTA, R. S. Modern man-made fibres. Indian Textile J. 59: 246-251. (Cont.) Dec. 1948. 304.8 In2
- 47530 GUSLER, G. Sell or hold? Marketing 1949 wool clip. Mont. Farmer-Stockman 36(15): 18, 19. Apr. 1, 1949. 6 M764  
Similar title in Mich. Farmer 211: 269, 284. Apr. 2, 1949. 6 M58
- 47531 HARDY, T. M. P., and HARDY, J. I. Animal fibers used in brushes. U. S. D. A. C. 802, 15 p. Ref. Jan. 1949. 1 Ag84C
- 47532 HEDDERGOTT, K. Die mechanischen (physikalischen) einflüsse verschiedener trockensysteme der wollwäscherei auf menge und güte der zu waschenden wol-le. Textil-Praxis 4: 122-123. Mar. 1949. 304.8 T3143
- 47533 HEIMERAN, O. Untersuchungen über die schmiegsamkeit von baumwoll- und zellwollfasern. Textil-Praxis 4: 92-97. Mar. 1949. 304.8 T3143
- 47534 HESSLER, L. E. Chemical removal of en-crustants from dew-retted hemp fiber. J. Agr. Res. 78: 153-159. Mar. 1/15, 1949. 1 Ag84J
- 47535 HEYN, A. N. J. Small-angle X-ray scattering in various cellulose fibers and its relation to the micellar structure. Textile Res. J. 19: 163-172. Ref. Mar. 1949. 304.8 T293
- 47536 HOOPER, J. A. Activity in fine wool expected to increase. Natl. Live Stock Prod. 27(7): 10. Apr. 1949. 280.28 N21
- 47537 HOWSMON, J. A. Water sorption and the poly-phase structure of cellulose fibers. Textile Res. J. 19: 152-162. Ref. Mar. 1949. 304.8 T293
- 47538 HUSEMANN, E., and GOECKE, M. Über lockerstellen und ihre spaltungsgeschwindigkeit in oxydativ abgebauten baumwoll- und ramiecellulosen. I. Makromolekulare Chem. 2: 298-314. Oct. 1948. 384 M28
- 47539 INDIA. OFFICE OF THE AGRICULTURAL MARKETING ADVISER. Brochure on the marketing of wool in India. India. Off. Agr. Mktg. Adv. Brochure Ser. 2, 22 p. June 1948. 280.39 In2B
- 47540 INDIAN CENTRAL COTTON COMMITTEE. Annual report of the director, Technological Laboratory, for the year ending 31st May 1948. Bombay, 1948. 69 p. 73.39 In26An
- 47541 ISAZA, J. M. El algodón en Antioquia. Vida Rural 10(112): 27-28. Dec. 1948. 9.4 V66
- 47542 JAMESON, N. R. The work of the International Wool Secretariat. Wool. 1: 14-15. Aug. 1948. 45.8 W887
- 47543 JOHNSON, W. D. N. Australian wool consumption. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 2: 16-19. Jan. 1949. 281.9 Au73
- 47544 KASBEKAR, G. S. Shrinkage of cotton yarn in zinc chloride. Indian Textile J. 59: 316-320, 323. Jan. 1949. 304.8 In2
- 47545 KERSHAW, F. Cotton carding; action of the carding engine. Indian Textile J. 59: 418-424. Feb. 1949. 304.8 In2
- 47546 KIME, J. A. Enter, new cotton products. U. S. Bur. Agr. and Indus. Chem. AIC-229, 7 p. Mar. 15, 1949. 1.932 A2Ag82
- 47547 KLENK, E. Differenzen zwischen forschung und technik des bleichens von natur- und kunstfasern? Textil-Praxis 4: 125-128. Mar. 1949. 304.8 T3143
- 47548 KRISHNA, S., and RAO, P. S. Tamarind seed kernel powder; standard specifications for the commercial product. Indian Textile J. 59: 314-315. Jan. 1949. 304.8 In2  
As size for textiles.
- 47549 LAURANS, R. Le marché français de la laine brute de 1937 à 1945. Grignon. Ecole Natl. d'Agr. Ann. (ser. 3) (1947/48) 6: 149-209. 1948. 105.3 G872A
- 47550 LEES, P. W. Q. The Mauritius fibre industry: investigation of the means of decorticating Furcroea leaves. Rev. Agr. de l'île Maurice 27: 163-169. July/Aug. 1948. 24 M44  
Equipment.
- 47551 LEGGETT, W. F. The story of silk. New York, Lifetime Editions, 1949. 361 p. 304 L52S  
Includes chapters on sericulture.
- 47552 LEJANO, A. The outlook of the Philippine fiber industry. Cord Age 50(5): 8, 31. Nov. 1948. 73.8 C812
- 47553 LEONARD, E. A., and BECK, L. Data on a laboratory method for wool raw stock detergency. Amer. Dyestuff Rptr. 38: P348-P352. Apr. 18, 1949. 306.8 Am3
- 47554 LINKE-CRAWFORD, E. Das handverspinnen der angorakaninwolle. Österr. Kleintierzüchter 1949: 522-523. (To be cont.) Feb. 1949. 44.8 Os7
- 47555 LOW, H. B. Wool—its present demand and future price stability. Wool 1: 33-35. Aug. 1948. 45.8 W887
- 47556 MCMILLAN, R. B. Wool marketing. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 2: 3-7. Jan. 1949. 281.9 Au73
- 47557 MANFRED, O. Grundsätzliches zu einer neuzeitlichen kaseinwolle-erzeugung. Österr. Milch-u. Fettwirtschaft 4: 59-61. Feb. 1949. 44.8 Os72
- 47558 MARTINDALE, J. G. Carding—evolution and early development. Textile Inst. J. 40: P65-P78. Feb. 1949. 73.9 T31
- 47559 MASTERS, R. E. Woollen worsteds for the world; specialisation and skill account for Britain's high standards. Wolboer 1949(18): 33. Jan. 1949. 45.8 W83
- 47560 MENEZES, R. S. DE. The place of cotton in Ceara's economy. (In Portuguese.) Campo [Rio de Janeiro] 20: 29-30. Jan./Feb. 1949. 9.2 C15
- 47561 MENGHINI, A. Influence of humidity in the processing of wool. (In Italian.) Laniera 63: 41, 43, 45, 47, 49-51. Jan. 1949. 45.8 B63
- 47562 MIEGE, D. Le sisal au Maroc. Rev. Internat. des Prod. Colon. 24: 37. Feb. 1949. 286.8 R326
- 47563 MOOLMAN, J. H. Further prosperity for industry forecast; 1947-48 season was satisfactory: present one gives grounds for confidence. Wolboer 1948: 6-7. Dec. 1948. 45.8 W83  
Union of South Africa.
- 47564 MOORADIAN, S., and MILLSON, H. E. Control del pH en la elaboración de la lana. III. Textiles Pan-amer. 9(4): 55-56, 58. Apr. 1949. 304.8 T3142
- 47565 MORTON, A. C. North Island wools—a review. Wool 1: 23-24. Aug. 1948. 45.8 W887
- 47566 NEW FINISHES for old fibers. Fortune 39(4): 121-124. Apr. 1949. 110 F772  
Synthetic resins.
- 47567 NEW ORLEANS COTTON EXCHANGE. Directory of members, January 26, 1949. 1949. 44 p. 287 N47D
- 47568 NEW ORLEANS COTTON EXCHANGE. Seventy-eighth annual report, year ending October 31, 1948. 1948. 31 p. 287 N47
- 47569 OLIVER, J. G. Record year for British rayon. Textile Mercury & Argus 120(3129, sup.): 49, 51. Mar. 25, 1949. 304.8 T318
- 47570 PARRY, G. Étude comparative entre deux méthodes de mesure des fibres de coton. Coton et Fibres Trop. 3: 49-55. Aug. 1948. 73.8 C82
- 47571 PENFOLD, A. R. Plastics and synthetic fibres. Mus. Technol. and Appl. Sci. Sydney. B. 23, 31 p. 1948. 514 Sy22
- 47572 PETERS, L., and SPEAKMAN, J. B. The combination of wool with acids—a quantitative interpretation in terms of the Donnan theory of membrane equilibrium. Soc. Dyers & Colourists. J. 65: 63-71. Ref. Feb. 1949. 306.9 S01
- 47573 PIERI, M. On the mechanical identification of wool in shoddy. (In Italian.) Laniera 63: 21, 23, 25, 27, 29, 31, 33. Jan. 1949. 45.8 B63
- 47574 PINARDI, G. Producción y características de fibras textiles de alta calidad a partir de los excedentes agrícolas, con especial referencia a posibilidades argentinas. Experimenta 1: 33-37. Dec. 1948. 475 Ex72  
English, French, and Italian summaries.
- 47575 PRINGLE, A. V. The theory and practice of flax spinning. Fibres, Fabrics & Cordage 16: 87-91. (Cont.) Mar. 1949. 304.8 Ir42
- 47576 PYNAERT, L. Le sisal au Congo Belge. Rev. Internat. des Prod. Colon. 24: 33, 35. Feb. 1949. 286.8 R326
- 47577 QUIG, J. B. "Orlon" acrylic fiber—a new synthetic. Rayon & Synthetic Textiles 30(4): 91-93. Apr. 1949. 304.8 R21



- 47578 RACE, E. The degradation of cotton during atmospheric exposure, particularly in industrial regions. Soc. Dyers & Colourists. J. 65: 56-63. Ref. Feb. 1949. 306.9 Scl
- 47579 REIN, H. Was sind synthetische Fasern? Melland Textilber. 30: 54. Feb. 1949. 304.8 T312
- 47580 RIVAL, Études sur l'aloès de Bourbon et utilisation de sa fibre dans les moissonneuses-lieuses. Cahiers Colon., n. s. 1: 33-35. Jan. 1949. 286.8 M35 Furcrea.
- 47591 ROSSOUW, S. D. The reclamation of wool fat. (In Afrikaans.) Wolboer 1949(18): 24-25. Jan. 1949. 45.8 W83
- 47592 ROSSOUW, S. D. Union clip great source of potash. (In Afrikaans.) Wolboer 1948: 12-14. Dec. 1948. 45.8 W83
- 47593 ROTINI, O. T. The determination of artificial and reprocessed wool in fabrics. (In Italian.) Laniera 62: 629-633, 635, 637-639. Nov. 1948. 45.8 B63
- 47594 ROUSSEAU, A. La culture du sisal a Madagascar. Rev. Internat. des Prod. Colon. 24: 39-40, 43. Feb. 1949. 286.8 R326
- Chiefly on the processing of the fiber.
- 47595 SCHOBBERL, A., and HAMM, R. Über die einwirkung von papain auf schafwolle. 1-2. Biochem. Ztschr. 318: 331-372. Ref. 1948. 384 B522
- 47596 SCHOFFELMAYER, V. More uses for cotton than most of us have dreamed of. Tex. Farming & Citric. 25(10): 20. Apr. 1949. 80 T31
- 47597 SEMINO, J. O. Bolsas al barrer. Bolsa de Com., Rosario. Rev. 37(892): 3-6. Mar. 15, 1949. 287 R71
- Used jute bags.
- 47598 SEMPRÚN DE LA QUINTANA, J., and TOBÍO, J. M. El problema de la grasa de lana en España. 2. Ion 8: 799-807. Dec. 1948. 385 I6
- 47599 SENTORI, A. Textiles in the Yugoslav economy. (In Italian.) Laniera 63: 77, 79, 81. Feb. 1949. 45.8 B63
- 47600 SIEGEL, M. Photographic aids to the textile industry. Amer. Dyestuff Rptr. 38: P268-P273. Ref. Mar. 21, 1949. 306.8 Am3
- 47601 SIMS, I. H. Today's Angora wool markets. Angora Rabbit Mag. 4(8): 1. Mar. 1949. 40.28 An42
- 47602 SLAGLE, A. B. Cotton acreage [in Texas] totals largest in history. Southwest. Crop & Stock 3(3): 11. Mar. 1949. 6 S68942
- 47603 SNYDER, E. J. The door of opportunity is open. Angora Rabbit Mag. 4(8): 6. Mar. 1949. 40.28 An42
- Wool.
- 47604 SNYDER, E. J. Imported wool again affecting the market and prices. Angora Rabbit Mag. 4(9): 18. Apr. 1949. 40.28 An42
- 47605 SPENCER, C. B. Texas' goal—a half-bale state average. Prog. Farmer, Tex. Ed. 64(3): 16, 128. Mar. 1949. 6 T311
- A Seven-Step Cotton Program.
- 47606 STOVES, J. L. The chemical technology of wool. VII. Fibres 10: 81-83. Mar. 1949. 304.8 F16
- 47607 TABASSO, E. The American wool industry at the crossroads. (In Italian.) Laniera 63: 15, 17, 19. Jan. 1949. 45.8 B63
- 47608 TABASSO, E. Characteristics of wool production and marketing in America in relation to our [Italian] potential. (In Italian.) Laniera 62: 607, 609, 611, 613, 615. Nov. 1948. 45.8 B63
- 47609 TEPLITZ, I. Shrinkage-control must be based on fiber characteristics. Textile Age 13(3): 7, 10, 12, 14, 18. Mar. 1949. 304.8 T3132
- 47610 TER HORST, W. P. Vicara—new fiber derived from zein. Amer. Dyestuff Rptr. 38: P335-P338. Apr. 18, 1949. 306.8 Am3
- 47611 TOWNEND, P. P. Recent research on the carding of wool. Textile Inst. J. 40: P94-P105. Feb. 1949. 73.9 T31
- Includes discussion.
- 47612 UGANDA COTTON INDUSTRY COMMISSION. Report, 1948. 1948. 44 p. 286.3729 Ug1
- 47613 U. S. BUR. OF AGRICULTURAL ECONOMICS. 1948 flax fiber production with comparisons. Portland, Oreg., 1949. 1 p. 1.941 H8F61
- 47614 U. S. BUR. OF AGRICULTURAL ECONOMICS. Wool and mohair production, 1948. Portland, Creg., 1949. 2 p. 1.941 H8F44
- 47615 U. S. BUR. OF AGRICULTURAL ECONOMICS. Wool production and income, 1947-48. Washington, 1949. 2 p. 1.9 Ec713Wp
- 47616 U. S. DEPT. OF COMMERCE. BUR. OF THE CENSUS. Cotton production and distribution, season of 1947-48. U. S. Bur. Census. B. 185, 89 p. 1949. 157.41 B89
- Statistics.
- 47617 U. S. DEPT. OF STATE. OFF. OF RESEARCH AND INTELLIGENCE. Current status of the Japanese textile industry. Washington? 1949. 4 p. (DRF Inform. Note 239) 150.1 C93
- 47618 U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Rayon production in E. C. A. countries. Washington? 1949. 1 p. 1.943 R21
- 47619 VAGLIO, R. Washing dirty wool with non-ionic detergents. (In Italian.) Laniera 63: 105, 107, 109, 111-112. Feb. 1949. 45.8 B63
- 47620 VENKATRAM, S. Some fundamental characteristics of cotton. Indian Textile J. 59: 262-263. Dec. 1948. 304.8 In2
- 47621 VOGLER, K. Über den reifegrad von rohbaumwolle. Textil-Rundschau 4: 75-81. Mar. 1949. 304.8 T3139
- 47622 WALKER, W. A. M. Growth of the jute industry. Fibres 10: 102-103. Mar. 1949. 304.8 F16
- 47623 WALZ, F. Neuere entwicklungen in der baumwollreinigung. Textil-Praxis 4: 98-101. Mar. 1949. 304.8 T3143
- 47624 WATT, K. D. Standardization of descriptive branding. Wool 1: 19. Aug. 1948. 45.8 W887
- 47625 WEGENER, W. Die verarbeitung von seidenabfällen nach dem schappespinnverfahren. Melland Textilber. 29: 259-262, 295-297. (Cont.) Aug.-Sept. 1948. 304.8 T312
- English and French summary.
- 47626 WEINER, L. I. Quartermaster Corps accelerated test method for evaluating shrink-resistant wool as developed for 10 1/2-oz. wool shirting. Amer. Dyestuff Rptr. 38: 289-295. Apr. 4, 1949. 306.8 Am3
- 47627 WILLIAMS, L. J. Fiber meter makes blending automatic. Textile World 99: 137, 256. Apr. 1949. 304.8 T315
- 47628 WINDEL, D. Developments in the world cotton situation during the first half of the 1948-49 season. Egypt. Cotton Gaz. 6: 1-7. Jan. 1949. 72.8 Eg9
- 47629 ZAHN, H., and BRAUCKHOFF, H. Über die fixierung von keratinfasern. Biochem. Ztschr. 318: 401-412. 1948. 384 B522
- 47630 ZIPOLI, A. UNITEX, UNI, and the Wool Trade Commission. (In Italian.) Laniera 63: 83, 85, 87. Feb. 1949. 45.8 B63

## FRUITS, VEGETABLES, AND NUTS

- 47621 ADAMS, R. L. What's ahead for the pear industry? Pear Growers League Ann. 1949: 19, 21, 23. 286.3939 P31
- 47622 ARMSTRONG, W. D. A brief look at the Washington fruit industry. Ill. State Hort. Soc. Ill. Hort. 37 (11): 1-3. Feb. 1949. 80 IL66
- 47623 ARTES, J. Impresiones sobre la cosecha de naranja en Levante, campaña 1948-49. Siembra 1948(12): 40-41. Dec. 1948. 15 Si1
- 47624 ASHBY, A. W. Potato growing in New York State and southern England. N. Y. Agr. Col. Farm Econ. 167: 4321-4323. Mar. 1949. 280.8 C812
- 47625 BARILI, P. Production and marketing of fruit. (In Italian.) Gior. d'Ital. Agr. 32(13): 1-2. Mar. 26, 1949. 16 G433
- 47626 BECKMAN, H. V. California's fruit cocktail—today! and tomorrow? Pear Growers League Ann. 1949: 13, 15, 17. 286.3939 P31
- 47627 BERTHAULT, P. Le statut viticole. Rev. Agr. de l'Afrique du Nord 47: 124-126. Mar. 4, 1949. 80 R326
- 47628 BLUEBERRY INDUSTRY ADVISORY COMMITTEE. Blueberry research and service; progress report. Maine. Agr. Expt. Sta. Misc. P. 614, 16 p. Jan. 1949. 100 M28S
- 47629 BONNICEL, R. La première crise. Agriculture [Paris] 13: 5. Jan. 1949. 14 Ag823
- The vegetable situation.
- 47630 BUSH, R. Is fruit worth growing in Jamaica? Grower [London] 31: 546-547. Mar. 19, 1949. 286.83 M34



- 47631 CADILLAT, R. M. La production bananière de l'Union Française est en augmentation. Fruits d'Océanie Mer 4: 67-69. Feb. 1949. 80 F9492
- 47632 CHAMBERS, H. Coshocton County grows more potatoes. Ohio Farmer 203(7): 16-17. Apr. 2, 1949. 6 Oh3
- 47633 DANY, A. L'effondrement des cours de la pomme de terre et des produits maraîchers. Bouches du Rhône Agr. 22(998): 7, 9. Mar. 15, 1949. 14 B662
- 47634 DEJANA, A. Viticulture and wine production in Sardinia. (In Italian.) Gior. d'Ital. Agr. 32(7): 2. Feb. 12, 1949. 16 G433
- 47635 DESMEMAY, H. Le plant français de pommes de terre. Défense Agr. de la Beauce et du Perche 46: 59. Mar. 1, 1949. 14 D36
- 47636 EDDINS, A. H. Potato growing in the Hastings, Fla., section. Packer 49(21): 16. Apr. 23, 1949. 286.8 N483
- 47637 FABIANI, L. Seed potatoes. (In Italian.) Campagna 48: 35-36. Feb. 1, 1949. 16 C152 Italy.
- 47638 FIORITO, G. Neapolitan fruit production. (In Italian.) Mezzogiorno Agr. 5(9): 3-4. Feb. 27, 1949. 16 M57
- 47639 FRUIT and vegetables. Way Ahead 1(3): 59. Spring, 1948. 280.8 W362 Netherlands.
- 47640 GACHOT, M. H. Fruit juices in the countries of the North. (In Italian.) Not. Enol. ed Aliment. 5: 205-206. Oct. 1948. 16 N847 The Scandinavian countries.
- 47641 GOLTZ, VON DER. Ausdehnung des kartoffelanbaues. Bad. Landw. Wchbl. 116: 142. Mar. 19, 1949. 18 B142
- 47642 GOPALAN, K. The coconut industry in India. Business Week [Madras] Planting Sup. 1948: 9-15, 18. Aug. 21, 1948. 281.182 B96
- 47643 HAND, J. A. Improving Ontario's potatoes; growers think in terms of more potatoes per acre and better marketing technique. Farmer's Mag. 46(3): 11, 44-45. Mar. 1949. 7 C165
- 47644 HARVEY, G. F. B. fruit and vegetable committee sets up broad five point program. Hoosier Farmer 34(4): 50. Apr. 1949. 280.82 H76
- 47645 HEIM, B. Betriebswirtschaftl. fragen zum kartoffelbau. Württemb. Wchnbl. f. Landw. 116: 187-188. Apr. 2, 1949. 18 W96 Includes prices of potatoes compared with other products.
- 47646 HÖFLINGER, K. Gemüsebau 1949—ja oder nein? Oberösterr. Landwirtschaftsztg. 21(12): 5. Mar. 23, 1949. 19 Ob23
- 47647 JAKOVLIV, G. Considerations sur la valeur et l'utilisation de nos fruits frais. Courrier Hort. 10: 659-660. Nov. 1948. 80 C834
- 47648 LEE, I. M. The outlook for crops competing with sugar beets. Spreckels Sugar Beet B. 13: 11, 16. Mar./Apr. 1949. 66.8 Sp7
- 47649 MASSACHUSETTS. DEPT. OF AGRICULTURE. Apple and cranberry Thanksgiving thoughts; excerpt from Walter Piper Page for broadcast on Farmer's Almanac, WEEI, Boston, Mass., Thursday, Nov. 25, 1948. Boston, 1948. 2 p. 389.1 M383
- 47650 MOTZ, F. A. Les cultures fruitières en Argentine. Courrier Hort. 10: 658. Nov. 1948. 80 C834
- 47651 O'DONNELL, A. C. What is United [Fresh Fruit and Vegetable Association]? West. Grower & Shipper 20(5): 7, 36-37. Apr. 1949. 280.38 W52
- 47652 PALMER, M. B. British Honduras planning production of grapefruit in sections and oranges. Foreign Trade 5: 785. Apr. 9, 1949. 286.8 C162
- 47653 PEAR GROWERS LEAGUE. Annual, 1949. 1949. 64 p. 286.3939 P31
- 47654 ROBINSON, C. Potatoes grow into big business; Sevier County farmers urged to grow spuds to keep plant busy. Utah Farmer 68(14): 6, 20. Mar. 12, 1949. 6 D45
- 47655 SECRETT, A. W. Those who dabble and gamble. Fruitation 3(6): 5-7, 9. Mar. 1949. 286.83 F949 British vegetable production situation.
- 47656 SØRENSEN, H. Should we grow shallots? (In Danish.) Gart.-Tid. 65: 130. Mar. 23, 1949. 80 G192
- 47657 STOPPELENBURG, A. H. A trip to Canada. (In Dutch.) Groenten en Fruit 4: 461. (Concl.) Jan. 27, 1949. 80 G89 The fruit industry in Canada.
- 47658 STRAW and potatoes. Way Ahead 1(3): 57-58. Spring, 1948. 280.8 W362 Netherlands.
- 47659 TAYLOR, P. R. Our present situation in fruits and vegetables. n. p., 1948? 8 p. 280.3 T21
- 47660 TAYLOR, P. R. Spuds—supply vs demand. Nation's Agr. 24(4): 12, 21. Apr. 1949. 280.82 B89
- 47661 TONDÛ, P. L'industrie des jus de fruits. Cahiers Colon., n. s. 1: 23-30. Jan. 1949. 286.8 M35
- 47662 WARE, L. M. New products prepared from Irish potatoes. South. Canner & Packer 10(4): 15. Apr. 11, 1949. 389.8 So82
- 47663 WHITNEY, D. J. State's walnut industry in good condition. Calif. Farmer, North. Ed. 190: 242-243, 314. Mar. 12-26, 1949. 6 C126
- 47664 ZALVIDEA ROMERO, E. El tomate. U. Nac. Mayor de San Marcos. Facul. de Cien. Econ. Rev. 40: 78-89. Jan. 1949. 280.8 R328 Peru.

#### Analysis and Composition

- 47665 BELLUCCI, I., and GORI, R. DE. The bromine and chlorine content of edible plants. (In Italian.) Ann. di Chim. Appl. 39: 56-63. Jan. 1949. 385 An7
- 47666 CHAVES, J. M., and PECHNIK, E. Study of the chemical composition and nutritive value of fiber mauritia (Mauritia sp. Mart.). (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 217-223. 1948. 389.9 R47 The fruit.
- 47667 EDMAN, P. A technique for partition chromatography on starch. Acta Chem. Scand. 2: 592-596. 1948. 385 Ac82 Potato starch.
- 47668 EIGER, I. Z., and DAWSON, C. R. Sweet potato phenolase. Preparation, properties, and determination of protein content. Arch. Biochem. 21: 194-209. Ref. Mar. 1949. 381 Ar2
- 47669 FEIGENBAUM, J., and ISRAELASHVILI, S. Sulfurous acid in citrus juices. Indus. & Engin. Chem. 41: 797-798. Apr. 1949. 381 J825 Sulfur dioxide.
- 47670 HELFERICH, B., and STETTER, H. Zur Kenntnis der kartoffel-phosphatase. 2. Justus Liebigs Ann. der Chem. 560: 191-201. Aug. 31, 1948. 384 An7
- 47671 HENGLEIN, F. A., and HANN, M. Über die darstellung der d-galakturonsäure durch enzymatischen pektinabbau. Makromolekulare Chem. 2: 289-297. Oct. 1948. 384 M28
- 47672 PETROSINI, G., and ESCHENA, T. On a pre-supposed antioxidating enzyme of the tomato. (In Italian.) Quaderni della Nutr. 10: 359-369. Ref. Nov. 1948. 389.8 Q2 English summary.
- 47673 ROBINSON, W. B., AVENS, A. W., and KER-TESZ, Z. I. The chemical composition of ripe Concord-type grapes grown in New York in 1947. N. Y. (State) Agr. Expt. Sta. Tech. B. 285, 16 p. Feb. 1949. 100 N48
- 47674 SONDHEIMER, E., and LEE, F. A. Color change of strawberry anthocyanin with D-glucose. Science 109: 331-332. Apr. 1, 1949. 470 Sci2
- 47675 TOMKINS, R. G. Organoleptic tests in the food industry. II. The use of a "tasting panel" for assessing the culinary quality of dried vegetables. Chem. & Indus. 1949: 167-168. Mar. 12, 1949. 382 M31C

#### Consumption and Utilization

- 47676 BASSOT, J. La farine de fèves, améliorant de la panification. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 551-556. 1948. 389.8 An73
- 47677 GALE, R. E. Starch production from cull potatoes. Chemurg. Digest 8(4): 11-12. Apr. 1949. 381 N213Na
- 47678 GAROGLIO, P. G. Adelantos en el aprovechamiento de las substancias de los orujos. Experimenta 1: 28-32. Dec. 1948. 475 Ex72 English, French, and Italian summaries.



- 47679 HECKMAN, J. H. Consumers prefer ripe peaches. *News Farmer Coops.* 15(12): 19-20. Mar. 1949. 166.2 N47
- 47680 MIEGE, E. Le complet emploi des marcs de raisin: la crème de tarte. *Inform. Maroc.* 415: 1, 8. Dec. 25, 1948. 281.8 In3

#### Distribution, Marketing, and Transportation

- 47681 AASVEJEN, H. The scandalous fruit marketing in North-Norway. (In Norwegian.) *Norsk Hagetidend* 65: 53-55. Mar. 1/15, 1949. 80 N81
- 47682 ANQUEZ, P. Stations fruitières cooperatives de la Sarthe. *Génie Rural* 42: 115-118. Mar. 1949. 58.8 Au8
- 47683 BARTELT, H. N. Volume air transportation for produce. *West. Grower & Shipper* 20(4): 11, 36-37. Mar. 1949. 280.38 W52
- 47684 BENSON, A. D. Will the new marketing plan mean many changes? *Cranberry World* 3(7): 5-7. Apr. 1949. 280.28 C85
- 47685 CHANEY, C. M. What the new marketing plan will mean to cranberry growers in 1949. *Cranberry World* 3(7): 3-4. Apr. 1949. 280.28 C85
- 47686 CHAPMAN, P. W. A new era in vegetable marketing. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 64(4): 15, 130. Apr. 1949. 6 P945G
- 47687 HALLER, M. H., and others. Test shipments of Elberta peaches from South Carolina to New York, 1948. *U. S. Bur. Plant Indus., Soils, and Agr. Engin. H. T. & S. Off. Rpt.* 199, 10 p. Jan. 10, 1949. 1.9 P772Ht
- M. A. Smith, J. Kaufman, and V. A. Reubelt, joint authors.
- 47688 HERBERT, J. W. Freight costs eat up growers' profit. *Goodfruit Grower* 2(26): 5. Mar. 24, 1949. 80 G61
- 47689 KELLER, J. C. Edible peanut market firm; oil and meal market weaker. *Peanut J. & Nut World* 28(6): 29, 36. Apr. 7, 1949. 77.8 P313
- 47690 KITCHEN, C. W. Better retailing key to more pear sales. *Pear Growers League Ann.* 1949: 43, 45. 286.3939 P31
- 47691 KROSNAAR, R. Einführung der gemüse-auktion bei der Wiener gemüseverwertungsgenossenschaft. *Gartenbauwirtschaft [Wien]* 1949(2): 1-3. Feb. 15, 1949. 80 G1936
- 47692 MICHIGAN POTATO GROWERS EXCHANGE, INC. Annual reports of the general manager and treasurer for the period ending July 31st, 1948, with a review of the proceedings of the thirteenth annual meeting of delegates, held in the City of Cadillac, Michigan, August 23, 1948. n. p., 1948. 22 p. 75.9 M58
- 47693 MYRICK, N. Thar's gold in them thar oranges. *Amer. Milk Rev.* 11(3): 12-14, 67. Mar. 1949. 44.8 Am38
- Selling of orange juice by dairies.
- 47694 NEAL, J. D. Some current problems in the transportation of perishables. *Southwest Shippers Adv. Bd. Proc.* 1949: 14-15. Mar. 30, 1949. 289.29 So83
- Fruit and vegetables.
- 47695 OLAFSON, G. The Norwegian fruit market. (In Norwegian.) *Norges Landbrukshøgsk. Meld.* 28: 495-570. 1948. 104 N762M
- 47696 PICKETT, C. Cranberry growers cooperate. *Nation's Agr.* 24(4): 8, 20-21. Apr. 1949. 280.82 B89
- National Cranberry Association.
- 47697 RHODES, N. Developments Florida citrus marketing for quarter century. *For Sale, Want and Exch. B.* 12(1): 1. Apr. 15, 1949. 280.38 F74
- 47698 ROBINSON, J. L. Tru-Blu [blueberries] from swamp to pie. *News Farmer Coops.* 15(12): 5, 14. Mar. 1949. 166.2 N47
- The Blueberry Cooperative Association, New Lisbon, N. J.
- 47699 RUSSELL, R. S. Government bulk buying: an economic and critical analysis of government purchasing: fruit. *Weekly Mkt. News & Mod. Farmer* 27(11): 2. Mar. 17, 1949. 286.81 G762A
- 47700 SAMONISKY, H. Frozen orange juice story told press and radio. *South. Canner & Packer* 10(4): 8-9, 17. Apr. 11, 1949. 389.8 So82
- 47701 SECHER, J. Les résultats obtenus par le transport d'artichauts sous régime de froid. *Rev. Agr. de l'Afrique du Nord* 47: 83-85. Feb. 11, 1949. 80 R326

47702 SKRIPNIK, G. M. "Orchard Week" to be carried out in an organized manner. (In Russian.) *Sad i Ogorod* 1948(9): 24-27. Sept. 1948. 87 Sal

Russian Republic.

47703 SNELL, R. S., and GANGSTAD, E. O. Commercial sweet corn with home garden quality. *Crops & Soils* 1(6): 10-11. Mar. 1949. 6 W55

Chiefly marketing methods.

47704 TRIGG, R. S. [The citrus industry.] Washington? *U. S. Prod. and Mktg. Admin.*, 1949. 11 p. 1.956 A2T73

With particular reference to marketing problems.

47705 VALENTINE, G. E. Selling the apple crop [in Canada]. *Country Guide* 68(3): 7, 66, 69. Mar. 1949. 7 G76

47706 VANDENDAEL, A. L'Office National des Debouches Agricoles et Horticoles. *Courrier Hort.* 11: 28-29. Jan. 1949. 80 C834

France.

47707 VAN WAES, D. A. New York State peaches desired by retailers. *N. Y. Agr. Col. Farm Econ.* 167: 4310-4311. Mar. 1949. 280.8 C812

#### Grading, Inspection, Standardization, and Quality

47708 ALLEWELT, W. F. California Federal-State shipping point inspection: fruits and vegetables. *Pear Growers League Ann.* 1949: 41. 286.3939 P31

47709 BECKMAN, H. V. Top quality pears. *Pear Growers League Ann.* 1949: 33, 35. 286.3939 P31

47710 BENDER, W. A. Grading pectin in sugar jellies. *Analyt. Chem.* 21: 408-411. Ref. Mar. 1949. 381 J825A

47711 BUCHWALD, N. F. Death as a result of mushroom poisoning. (In Danish.) *Friesia* 3: 401-402. 1948. 450 F91

47712 CARRASCO, O. Estimation of tomato preserve quality on a basis of color. (In Italian.) *Indus. Ital. delle Conserve* 23: 9. Jan./Mar. 1948. 389.8 In23

47713 CHILDRESS, R. L. Variations in quality of potatoes purchased by consumers in New York City retail stores. *N. Y. Agr. Col. Farm Econ.* 167: 4315-4317. Mar. 1949. 280.8 C812

47714 CRAVENS, M. E. Market quality for potatoes. *Mich. Farm Econ.* 75: 3. Mar. 1949. 275.29 M58A

47715 CROSBY, J. Potato agreement coming, like it or not! *Calif. Farmer, North. Ed.* 190: 240-241. Mar. 12, 1949. 6 C126

Federal marketing agreement in California.

47716 DOLVEN, A. A word of warning. (In Norwegian.) *Norsk Hagetidend* 65: 56-57. Mar. 1/15, 1949. 80 N81

On the need for improving fruit quality in Norway.

47717 INGRAM, M. Fermentation in concentrated orange juice. II. *Food Manufacture* 24: 121-124. Mar. 1, 1949. 389.8 F736

47718 SMITH, R. J. Accuracy improved on growers' returns by new sampling machine. *Fruit & Veg. Rev.* 9(10): 14-15, 23. Jan. 1949. 80 C1224

Fruit.

#### Packing and Packaging

47719 CULLOM, W. F. Films for tomatoes; acetate has vital 'breathing' quality, and improved methods of machine handling are extending its popularity. *Mod. Packaging* 22(8): 134-137. Apr. 1949. 309.8 M72

47720 HOAG, W. G. Sprout growers prepack to sprout more sales. *News Farmer Coops.* 15(12): 12-14. Mar. 1949. 166.2 N47

Prepackaging brussels sprouts by the Santa Cruz Artichoke and Sprout Growers Association.

47721 MAXIM, E. How vegetables are prepared and dispatched at the first factory in this country for pre-packaging fresh produce; pioneer of pre-packaging. *Fruit, Flower & Veg. Trades' J.* 95(10): 20-21. Mar. 5, 1949. 80 F946

England.

47722 STOKES, D. R. Will prepackaging increase apple sales? *Amer. Fruit Grower* 69(4): 17, 32, 38-39. Apr. 1949. 80 G85

47723 TIERNEY, A. M., and COLLVER, J. P. 5 pounds in film; is the transparent bag an effective pre-package for heavy produce and what effect will it have on sales? *Mod. Packaging* 22(8): 162-165, 278. Apr. 1949. 309.8 M72

Fruit and vegetables.



Prices, Price Control, and Rationing

- 47724 BERTHAULT, P. Le prix des agrumes et la concurrence espagnole. Rev. Agr. de l'Afrique du Nord 47: 62-64. Feb. 4, 1949. 80 R326
- 47725 CAPEL, W. C. Price control for peaches? East. Fruit Grower 12: 11-12, 14, 16, 18. Mar. 1949. 80 Ea73
- 47726 CROSBY, J. Citrus industry seeks price support plan. Calif. Farmer, South. Ed. 190: 288-289. Mar. 26, 1949. 6 C126A
- 47727 DAVIS, W. A. Potato support program. Fruit & Veg. Rev. 11: 12, 25. Apr. 1949. 80 C1224
- 47728 HATTON, J. G. Berry fruit prices. Tasmanian Fruitgrower & Farmer 25(306): 33. Jan. 1949. 23 T185
- 47729 SALTER, A. G. The citrus dollar. Calif. Citrog. 34: 237, 255-256. Apr. 1949. 80 C125
- 47730 WESTON, W. B. Canning Bartlett prices over the years. Pear Growers League Ann. 1949: 25. 286.3939 P31

Processing and Storage

- 47731 ALMEIDA, J. R. DE, and VALSECCHI, O. Fermentation of papaya. (In Portuguese.) Brasil Açucareiro 32: 613-616. Dec. 1948. 65.8 B73
- 47732 AUSTIN, C. P. Water in ice is cheap compared to water in fresh vegetables. Natl. Grocers B. 36(4): 70, 72. Apr. 1949. 286.83 N214
- 47733 BANZON, J., FULMER, E. I., and UNDERKOFFLER, L. A. Fermentative utilization of cassava: the production of ethanol. Iowa State Col. J. Sci. 23: 219-235. Ref. Jan. 1949. 470 Io9
- 47734 BAREISS, G. Problem kartoffellagerung. Württemb. Wchnbl. f. Landw. 116(1): 7. Jan. 1, 1949. 18 W96
- 47735 BARNARD, J. D. Power harvesting creates a canning crops problem. Canner 108(15): 13, 22. Apr. 9, 1949. 286.83 C16
- Peas and corn.
- 47736 BERTUZZI, S. A. A modern establishment of average size for processing of tomatoes, excluding copper [equipment]. (In Italian.) Not. Enol. ed Aliment. 6: 3-13. Jan./Feb. 1949. 16 N847
- 47737 BERTUZZI, S. A. Sweet juice and fermented cider. (In Italian.) Not. Enol. ed Aliment. 6: 14-24. Jan./Feb. 1949. 16 N847
- Apples.
- 47738 BLAKEY, J. C. Improved canning methods for pears. 2. Canad. Food Indus. 20(4): 31, 34-35. Apr. 1949. 286.83 C166
- 47739 BLIN, H. L'industrie des figues sèches en Algérie. Rev. Hort. [Paris] 120: 368-371. Dec. 1948. 80 R32
- 47740 BOUSSER, R. Le problème des fruits secs marocains. Inform. Maroc. 416: 1, 3. Jan. 1, 1949. 281.8 In3
- 47741 BRADELY, R. H., and DEAN, L. L. Sprout inhibition of non-dormant Chippewa potatoes. (Abs.) Amer. Potato J. 26: 90. Mar. 1949. 75.8 P842
- 47742 BUCHINGER, W. G., and MASON, F. Electric "facials" for spuds. Elect. on the Farm Mag. 22(3): 7-8. Mar. 1949. 335.8 EL27
- 47743 CHAVES, J. M., and PECHNIK, E. Whole orange juice in crystalline form. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 225-229. 1948. 389.9 R47
- 47744 CONFERENCE ON HOME FOOD FREEZING, WASHINGTON, 1949. Working outlines. I. Fruits. Washington, U. S. Bur. Human Nutr. and Home Econ., 1949. 54 p. Ref. 1.982 A2C764
- Preparation of fruits for home freezing.
- 47745 COOPER, R. A. Lettuce relish. West. Canner & Packer 41(3): 71. Mar. 1949. 286.83 W522
- 47746 CROCE, F. M. Desecación y deshidratación de castañas. Vinos, Viñas y Frutas 44: 326. Jan. 1949. 9 Ag89
- 47747 CROSBY, J. The farmers own it. Calif. Farmer, North. Ed. 190: 250-251. Mar. 12, 1949. 6 C126
- Bulk warehouse built and operated by the Pleasant Valley Lima Bean Growers and Warehouse Association.
- 47748 CRUESS, W. V., and RIVERA, W. Olive specialties. Fruit Prod. J. & Amer. Food Mfr. 26: 243-244, 253. Apr. 1949. 389.8 F94
- 47749 DAINES, R. H. New sweet potato storage at Hammonton, N. J. N. J. State Hort. Soc. Hort. News 30: 2148, 2160. Mar. 1949. 81 N46
- 47750 DESFLASSIEUX, H. Conserve à l'eau-de-vie. Prog. Agr. et Vitic. 1949: 160-163. Mar. 20/27, 1949. 14 P94
- Grapes.
- 47751 DOWNEY, A. H. Why essential oils should be used for flavoring pickles. (Abs.) Canner 108(12): 27-28. Mar. 19, 1949. 286.83 C16
- 47752 DRUFUCA, M. The importance of deaeration in the preparation of fruit juices. (In Italian.) Not. Enol. ed Aliment. 5: 197-200. Oct. 1948. 16 N847
- 47753 EICKELBERG, E. W. Better ways of handling cream style corn. Food Packer 30(4): 27-28, 56. Apr. 1949. 286.83 C165
- 47754 EL TABEY, A. M., and CRUESS, W. V. The oxidase of the apricot. Plant Physiol. 24: 307-316. Ref. Apr. 1949. 450 P692
- 47755 ESKEW, R. K. Conversion of potatoes to stable form. (Abs.) Amer. Potato J. 26: 92-93. Mar. 1949. 75.8 P842
- 47756 FABIAN, F. W. The absorption of spice oils by pickles from different menstrua. Fruit Prod. J. & Amer. Food Mfr. 26: 234-236. Apr. 1949. 389.8 F94
- 47757 FABIAN, F. W., and KRUM, J. The role of alum in pickles. (Abs.) Canner 108(12): 27. Mar. 19, 1949. 286.83 C16
- 47758 FAUCILLON, X. Les oignons et leur conservation. Monit. Agr. 2(64): 6. Apr. 3, 1949. 14 M744
- 47759 FITCH, C. L. Potatoes and other truck crops. Packer 49(18): 13. Apr. 2, 1949. 286.8 N483
- Storage.
- 47760 GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Domestic preservation of fruit and vegetables. Gt. Brit. Min. Agr. and Fisheries. B. 21, 94 p. 1948. 10 G79B
- 47761 HARDENBURG, E. V. Effect of types of container, storage and variety on shrinkage of stored potatoes. Amer. Potato J. 26: 75-79. Mar. 1949. 75.8 P842
- 47762 HART, W. J., JR. Utilization of apples in by-products. Va. Fruit 37(2): 22-24. Feb. 1949. 81 V81B
- 47763 HEID, J. L. Frozen concentrated orange juice. Fruit Prod. J. & Amer. Food Mfr. 26: 232-233. Apr. 1949. 389.8 F94
- 47764 HINTZE, S. Storage trial with white cabbage in cellar with automatically regulated ventilator fans. (In Swedish.) Alnarps Lantbr.-Mejeri- och Trädgårdst.-inst. Statens Trädgårdsförsök. Meddel. 1949(49): 335-346. 1949. 86 AL64
- English summary.
- Also in Alnarps Lantbr.-, Mejeri- och Trädgårdst.-inst. Årsskr. 1948: 335-346. 1949. 104 Sw3Ar
- 47765 HUKILL, W. V., and SMITH, E. Modern storage methods deliver apples to consumer all season. Country Life [Vernon] 33(3): 30. Mar. 1949. 7 C832
- 47766 HULSHOF, F. T. Storage of seed potatoes. (In Dutch.) Boer en Tuinder 3(115): 4. Mar. 19, 1949. 12 B632
- 47767 JANG, R., and CRUESS, W. V. Experiments on the candying of fruits. Fruit Prod. J. & Amer. Food Mfr. 26: 229-231, 248. Apr. 1949. 389.8 F94
- 47768 JEWELL, W. R. Sulphuring apricots. Australian Dried Fruits News 24(6): 7. Dec. 1948. 286.83 Au72
- 47769 JONES, R. E., and ALEXANDER, F. A new approach to apple juice processing. West. Canner & Packer 41(3): 31, 33, 35. Mar. 1949. 286.83 W522
- 47770 JOSLYN, M. A., and others. Studies of the application of sugar solutions with and without antioxidants. 1. Quick Frozen Foods 11(9): 68-69, 98. (To be cont.) Apr. 1949. 389.8 Q4
- W. L. Jones, E. Lambert, J. Miller, and R. L. Shaw, joint authors.
- In fruit freezing.
- 47771 KAWARADA, M., MATSUBARA, S., and SAKURAI, S. On the electric heating storage of sweetpotatoes with reference to curing for black rot. (In Japanese.) Hort. Assoc. Japan. J. 17: 69-72. Mar. 1948. 87 H78
- 47772 KESSLER, H. Rissbildung auf der haut des lagerobstes. Schweiz. Z. f. Obst u. Weinbau 58: 125-127. Mar. 26, 1949. 80 Sch9



- 47773 KÖNEMANN, E. Saft, mus und marmelade. Ed. 3, rev. and enl. Lüneburg, Kinau, 1948. 48 p. 389.3 K83  
Manufacture.
- 47774 KRAUS, J. E. What varieties freeze best? Oreg. Farmer 72: 201. Mar. 17, 1949. 6 Or32  
Fruits and vegetables.
- 47775 KRIVSHENKO, A. M. Storing vegetables in dug-outs. (In Russian.) Sad i Ogorod 1948(9): 23. Sept. 1948. 87 Sa1  
U. S. S. R.
- 47776 KUROKAMI, T., and TAKEMATSU, T. Studies on the development of keeping quality of chestnut fruits by delaying their germination with phytohormone treatments. 2. (In Japanese.) Hort. Assoc. Japan. J. 17: 121-125. Dec. 1948. 87 H78
- 47777 KUSHMAN, L. J., and COOLEY, J. S. Effect of heat on black rot and keeping quality of sweetpotatoes. J. Agr. Res. 78: 183-190. Apr. 1, 1949. 1 Ag84J
- 47778 LAPOINTE, J. A. La conservation des petits fruits par le froid. Rev. d'Oka 23: 16-36. Ref. Jan./Feb. 1949. 7 Ok1
- 47779 LØKEN, A. Conservation of cabbage through fermentation. (In Norwegian.) Norsk Hagetidend 65: 58-59. Mar. 1/15, 1949. 80 N81
- 47780 MCCREADY, R. M., SHEPHERD, A. D., and MACLAY, W. D. Use of polymetaphosphates and polyphosphates in the extraction of pectin and pectinic acids from citrus peel. n. p., 1948? 5 p. 387.1 M13
- 47781 MATSUBARA, S. On curing in storage of sweetpotatoes. (In Japanese.) Hort. Assoc. Japan. J. 17: 176-181. Ref. Dec. 1948. 87 H78
- 47782 MITCHELL, T. La refrigeración del arándano agrio. Hacienda 44(3): 76, 78. Mar. 1949. 6 H11
- 47783 MOEGLING. Wie steht es um die eingelagerten kartoffeln? Württemb. Wchnbl. f. Landw. 116: 125-126. Mar. 5, 1949. 18 W96
- 47784 MONTHULE, P. Cidrerie: du choix des variétés. Monit. Agr. 2(61): 9. Mar. 13, 1949. 14 M744
- 47785 NEUBERT, A. M., SCHULTZ, J. H., and CARTER, G. H. Canning studies with Washington apricots. West. Canner & Packer 41(3): 24-25, 27-28. Mar. 1949. 286.83 W522
- 47786 NOYES, H. A. New process for cold packing fruits. Canner 108(12): 20, 22, 28. Mar. 19, 1949. 286.83 C16
- 47787 OGAWARA, K. Studies on the storage of fresh vegetables. 2. On the physiological changes of herbage vegetables after harvesting. (In Japanese.) Hort. Assoc. Japan. J. 17: 217-223. Ref. Dec. 1948. 87 H78
- 47788 ORTON, E. C. Green tinge in sultanas. Australian Dried Fruits News 24(6): 9. Dec. 1948. 286.83 Au72  
In drying.
- 47789 ORTON, E. C. Lexia and sultana dipping trials. Australian Dried Fruits News 24(6): 14. Dec. 1948. 286.83 Au72
- 47790 PALLU, M. R. The prescalding of fruit preserves. (In Italian.) Not. Enol. ed Aliment. 5: 207-209. Oct. 1948. 16 N847
- 47791 PEDERSON, C. S. Ideal conditions for kraut fermentation. (Abs.) Canner 108(12): 26-27. Mar. 19, 1949. 286.83 C16
- 47792 RAMSEY, G. B., WIANT, J. S., and SMITH, M. A. Market diseases of fruits and vegetables: potatoes U. S. D. A. Misc. P. 98, rev., 60 p. Ref. Jan. 1949. 1 Ag84M  
Storage diseases.
- 47793 SCHREIBER, W. R. Foreign 1948 dried fig estimates decline. Calif. Fruit News 119(3168): 4-5. Mar. 26, 1949. 80 C12
- 47794 SCURTI, F. The fruit and vegetable freezing industry. (In Italian.) Ann. della Sper. Agr. (n. s.) 2(5): CVII-CXLVIII. 1948. 16 An76  
English summary.
- 47795 SHAW, T. M., and GALVIN, J. A. High-frequency-heating characteristics of vegetable tissues determined from electrical-conductivity measurements. Inst. Radio Engin. Proc. 37: 83-86. Ref. Jan. 1949. 335.9 In7  
Tests on fruit and vegetables.
- 47796 SILVEIRA, A. H. DA. Manufacture of arrow-root flour on the farm. (In Portuguese.) Brincar e Aprender 7(30): 31-32. July/Dec. 1948. 275.249 B77
- 47797 SMOCK, R. M. Controlled atmospheres improve refrigerated storage. Food Indus. 21: 471-473. Apr. 1949. 389.8 F737  
For fruit.
- 47798 STEVENS, A. E. Quick frozen orange juice aids recovery of frozen foods. Butchers' Advocate 125(12): 8-9. Mar. 23, 1949. 286.85 B97
- 47799 SUGIYAMA, T., and WATANABE, S. Inhibition of potato sprouts with growth hormones. (In Japanese.) Hort. Assoc. Japan. J. 17: 126-138. Ref. Dec. 1948. 87 H78
- 47800 TAVERNIER, J., and JACQUIN, P. Quelques remarques sur la pasteurisation en bouteilles du jus de pommes. Soc. Sci. de Bretagne. B. (Sci. Math., Phys. et Nat.) 22: 57-62. 1947, pub. 1948. 505 R292
- 47801 TREADWAY, R. H., WALSH, M. D., and OSBORNE, M. F. Effects of storage of starch and sugars contents of Maine potatoes. Amer. Potato J. 26: 33-44. Ref. Feb. 1949. 75.8 P842
- 47802 TREADWAY, R. H., and CORDON, T. C. Utilization of potatoes. Production of useful fermentation products. (Abs.) Amer. Potato J. 26: 102. Mar. 1949. 75.8 P842
- 47803 WESSEL, D. J., and ROBERTS, H. L. Processing studies on pimientos. South. Canner & Packer 10(4): 12-13, 23-24. Apr. 11, 1949. 389.8 So82
- 47804 WOJDA, W. The best method for washing cucumbers. (Abs.) Canner 108(12): 28. Mar. 19, 1949. 286.83 C16
- 47805 ZIEMBA, J. V. New bottling line reduces breakage, cuts costs. Food Indus. 21: 463-466. Apr. 1949. 389.8 F737  
Apple juice bottling.

## Statistics

- 47806 APOLD, L. J. 15 year's account for an apple orchard on Hedmark. (In Norwegian.) Norsk Hagetidend 65: 45-48. Mar. 1/15, 1949. 80 N81
- 47807 FLORIDA. CITRUS COMMISSION. Statistics relating to United States citrus, by states. Production, utilization, on-tree prices, crop values, acreage, and packs of canned citrus products for the seasons 1919-20 to 1947-48. Lakeland, 1948. 24 p. 281.393 F66
- 47808 GREAT BRITAIN. COMMONWEALTH ECONOMIC COMMITTEE. INTELLIGENCE BRANCH. Fruit; a summary of figures of production and trade relating to apples, pears, plums, peaches, oranges, grapefruit, lemons, bananas, grapes, raisins and currants, wine and canned fruit. London, 1949. 88 p. 280.39 G794C
- 47809 RICHTER, A. Culture fruitière en Tchécoslovaquie en 1948. (In Czech.) Czechoslovakia. Státní Úřad Statis. Statis. Zpravodaj 12: 51-53. Feb. 15, 1949. 266.8 C99S  
Statistics.
- 47810 UNITED PROVINCES. DEPT. OF AGRICULTURE. Final forecast of the gram crop for the year 1947-48. Lucknow, 1948. 2 p. 60.39 Un3
- 47811 U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks unusually large on February 1. Portland, Oreg., 1949. 2 p. 1.941 H8P843
- 47812 U. S. BUR. OF AGRICULTURAL ECONOMICS. United States potato crop. Boston, 1948. 4 p. 1.941 H8P844

## GRAIN AND GRAIN PRODUCTS

- 47813 ADLEM, E. L. The wheat industry on postage stamps. Miller 30: 288-289. Mar. 28, 1949. 298.8 M61
- 47814 ALBERTA WHEAT POOL. Alberta Wheat Pool's silver anniversary, 1923-1948. Calgary? 1948? 16 p. 280.2599 AL1A
- 47815 ARNOLD, J. P. New work for buckwheat. Farm Q. 4: 56-57, 125. Spring 1949. 6 F22995  
A source of rutin.
- 47816 ATKINSON, F. M. Improvements in flour packing machinery. Northwest. Miller (Milling Prod. Sect.) 238(2): 16a, 18a-19a. Apr. 12, 1949. 298.8 N81
- 47817 BABBITT, J. D. Observations on the adsorption of water vapor by wheat. Canad. J. Res. Sect. F, Technol. 27: 55-72. Feb. 1949. 470 C16F
- 47818 BAESTLE, R. Quelques considérations sur la panification des farines de seigle. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 527-531. 1948. 389.8 An73



- 47819 BIDAU, L. L'avenir de la culture du maïs en France. *Libération Paysanne* 5(208): 3. Mar. 24, 1949. 14 L61
- 47820 BLACK, R. H. Sick wheat—dead wheat. *Cargill Crop B.* 24(3): 21-23. Mar. 25, 1949. 281.8 C19
- 47821 BLAIR, and SANSOM, T. K. Report on the Southern Rhodesia wheat crop. *Rhodesia Agr. J.* 45: 422-425. Sept./Oct. 1948. 24 R34  
Chiefly quality.
- 47822 BRANNAN, C. F. International Wheat Conference. Washington, U. S. D. A., 1949. 3 p. 1.91 A2B73
- 47823 BROOMHALL'S corn trade year book; international grain trade statistics, 1948. n. p., 1948. 71 p. 286 B79
- 47824 BUCKLEY, M. S. Modern concepts of flour mill sanitation. Northwest. *Miller (Milling Prod. Sect.)* 238(2): 1a, 22a, 25a-30a. Apr. 12, 1949. 298.8 N81
- 47825 BUTY. L'Office des Céréales et la politique économique. France. Min. de l'Agr. Rev. Etudes & Monog. 1948: 105-112. July 1948. 281.8 F84
- 47826 CANADIAN WHEAT BD. Report, crop year 1947-1948. 1949. 51 p. 280.3599 C163
- 47827 CANELA, C. Nueva zona arrocería. *Cult. Mod.* 30: 135-136. Apr. 1947. 15 C89  
Spain.
- 47828 CARVALHO, D. DE. The present situation of Brazilian wheat. (In Portuguese.) *Rev. de Quím. Indus.* 18(201): 23-25. Jan. 1949. 385 R324
- 47829 CASATI, A. New treatment of corn flour intended for confectionary manufacture. (In Italian.) *Gior. dei Pasticcieri e Confettieri* 57: 93. Feb. 1949. 389.8 G432
- 47830 CHOUARD, P. Les bases techniques d'une politique du blé et la conjoncture actuelle de la production et du marché des céréales. *Ann. de la Nutr. et de l'Aliment.* Pt. 1, Rev. Synthétiques et Critiques 2: 707-713. 1948. 389.8 An73
- 47831 CHOWDHURY, J. K., CHAKRABORTY, K. M., and GHOSH, J. K. Preparation of activated carbon from rice-husk. II. *Indian Chem. Soc. J. Indus. & News Ed.* 11: 83-96. 1948. 385 In27A
- 47832 CLENDENAN, E. F. Massive drier safeguards ocean grain cargoes. *Milling & Feed* 30(4): 12-13, 41. Apr. 1949. 298.8 C162
- 47833 CLERCK, J. DE. Le traitement des grains crus. *Petit J. du Brasseur* 57: 285. Apr. 8, 1949. 390.8 P44
- 47834 CLEVE, H. Rohfaserbestimmungen. *Getreide, Mehl u. Brot* 3: 39-40. Mar. 1949. 298.8 G33  
In grain products.
- 47835 COLLIERS, L. E. New developments in American milling machines and equipment. *Miller* 30: 285-287. Mar. 28, 1949. 298.8 M61
- 47836 COMBS, W. B. Comments on the hundred-weight versus the bushel. Washington, U. S. Ext. Serv., 1949. 4 p. 1.913 A2C732  
Sale of grain.
- 47837 CORONAT, F. La conférence internationale du blé. *Agence France-Presse. Inform. et Doc.* 234: 11-12. Apr. 9, 1949. 280.9 Ag3
- 47838 COUCH, J. F., and others. Tartary buckwheat as a source of rutin. U. S. Bur. Agr. and Indus. Chem. AIC-222, 3 p. Feb. 1949. 1.932 A2Ag82  
J. Naghski, J. W. White, J. W. Taylor, W. J. Sando., and O. E. Street, joint authors.
- 47839 COURT, A. B. Research on rice by-products. *Rice J.* 52(3): 17-19. Mar. 1949. 59.8 R36
- 47840 DARROW, W. Grain back to pre-war, but oil-cakes still down by half. *Farmer & Stock-Breeder* 63: 575. Mar. 8, 1949. 10 F228
- 47841 DE GUERIN, B. C. They buy from the shops now—so old mills are idle. *Bakers' Natl. Assoc. Rev.* 66: 464. Apr. 8, 1949. 389.8 N214  
Milling history in Guernsey.
- 47842 DREWS, E. Die bestimmung der diastatischen kraft. *Getreide, Mehl u. Brot* 3: 40-43. Mar. 1949. 298.8 G33  
Flour.
- 47843 DREWS, E. Stärkeuntersuchungen. *Getreide, Mehl u. Brot* 3: 35-37. Mar. 1949. 298.8 G33
- 47844 EQUER, M. Les tendances actuelles du marché des céréales en France et dans le monde. *Ann. de la Nutr. et de l'Aliment.* Pt. 1, Rev. Synthétiques et Critiques 2: 697-706. 1948. 389.8 An73
- 47845 FARMERS ELEVATOR ASSOCIATION OF MINNESOTA. 1949 year book; a directory of licensed country elevators in Minnesota. 1949. 163 p. 225 M66
- 47846 FÉRON, F., and BOUQUET, F. Présence de lipase dans la farine de millet. *Ann. de la Nutr. et de l'Aliment.* Pt. 1, Rev. Synthétiques et Critiques 2: 537-541. 1948. 389.8 An73
- 47847 FINCKE, H. Zur vereinheitlichung der roh-faserbestimmung bei getreideerzeugnissen. *Getreide, Mehl u. Brot* 3: 40. Mar. 1949. 298.8 G33
- 47848 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COUNCIL. INTERNATIONAL EMERGENCY FOOD COMMITTEE. SUB-COMMITTEE ON RICE FOR SOUTH EAST ASIA. I. E. F. C. rice allocations for January/December, 1948. Food and Agr. Organ. of the United Nations. Council. Internatl. Emergency Food Com. Sub-com. on Rice for So. East Asia. Paper 16(1), 6 p. June 2, 1948. 286.3599 F733
- 47849 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COUNCIL. INTERNATIONAL EMERGENCY FOOD COMMITTEE. SUB-COMMITTEE ON RICE FOR SOUTH EAST ASIA. Rice. Food and Agr. Organ. of the United Nations. Council. Internatl. Emergency food Com. Sub-com. on Rice for So. East Asia 18 (1), 10 p. Aug. 6, 1948. 286.3599 F735
- 47850 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COUNCIL. INTERNATIONAL EMERGENCY FOOD COMMITTEE. SUB-COMMITTEE ON RICE FOR SOUTH EAST ASIA. Rice availabilities and shipping programmes. Food and Agr. Organ. of the United Nations. Council. Internatl. Emergency Food Com. Sub-com. on Rice for So. East Asia. Paper 16(2), 9 p. June 2, 1948. 286.3599 F735
- 47851 FRASER, D. E. More barley—less beer; facts and figures about the collapse of the malting barley trade. *Farmer & Stock-Breeder* 63: 574. Mar. 8, 1949. 10 F228
- 47852 GAULD, A. G. Are purifiers necessary? *Miller* 80: 215, 217. Mar. 7, 1949. 298.8 M61
- 47853 GRAIN & FEED DEALERS NATIONAL ASSOCIATION. Directory, March 1949. 1949. 72 p. 225 F763
- 47854 GREAT BRITAIN. WHEAT FUND. Accounts 1947-48. 1949. 3 p. 281.3599 G79
- 47855 GREER, E. N. The home-grown wheat crop. *Miller* 30: 290-291. Mar. 28, 1949. 298.8 M61
- 47856 GUILBOT, A. Le dosage de l'humidité dans le blé et les produits de mouture. *Ann. de la Nutr. et de l'Aliment.* Pt. 1, Rev. Synthétiques et Critiques 2: 403-409. 1948. 389.8 An73  
Discussion, p. 409.
- 47857 GUSLER, G. What will grain prices do? *Nebr. Farmer* 91(5): 14, 56. Mar. 5, 1949. 6 N27
- 47858 HASEBORG, G. P. TER. Products of flour. *Holland Shipping & Trading, Spec. Fair No.*, p. 43-44. Feb. 1949. 286.8 H713
- 47859 HESBURG, J. P. Industrial utilization of malting barley. *Feedstuffs* 21(12): 42-44. Mar. 19, 1949. 286.81 F322
- 47860 HOPPER, W. C. New Zealand will pay producers higher prices for current crop. *Foreign Trade* 5: 506-507. Mar. 5, 1949. 286.8 C162  
Grain.
- 47861 IOWA AGRICULTURAL EXPERIMENT ASSOCIATION. Certification hand book, 1949. Ames, 1949. 35 p. 61.9 Io9  
Grain.
- 47862 ISELY, C. C. Promised of industrial products in sorghum grains of southwest. *Feedstuffs* 21(15): 22. Apr. 9, 1949. 286.81 F322
- 47863 JOHNS, R. L. How're you gonna' keep it down on the farm. *Southwest. Crop & Stock* 3(3): 9, 54. Mar. 1949. 6 So8942  
Wheat storage in the Panhandle-Plains of Texas.
- 47864 KANSAS CITY, MO. BOARD OF TRADE. Annual statistical report for the year 1948. 1949? 45 p. 287 K13  
Gives statistics for grain shipments and receipts.
- 47865 KANSAS FARMERS SERVICE ASSOCIATION. 1948-49 directory of grain elevators and co-operative oil companies of Kansas. 1949? 118 p. 225 F224
- 47866 KESPER. Zweckmässige getreide- und saatgutbelüftung in der landwirtschaft. *Landtechnik* 4: 54-55. Jan. 31, 1949. 58.8 L235



- 47867 KRAMER, H. A. Drying combined rice. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Inform. Ser. 93, 17 p. Ref. July 1948. 1.9 R531I
- 47868 LAER, M. H. VAN. Les malts speciaux. Petit J. du Brasseur 57: 136-137. Feb. 18, 1949. 390.8 P44
- 47869 LAVAYSSIERE, F. Aperçu sur quelques aspects de l'utilisation de l'avoine. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 543-549. 1948. 389.8 An73  
Discussion, p. 549-550.
- 47870 LEAHY, M. E. Rice millers' view of research: study of milling process suggested. Rice J. 52(3): 13-16. Mar. 1949. 59.8 R36
- 47871 LINDBERG, J. Cereal and chemistry laboratories. In Åkerman, Å., ed. Svalöf 1886-1946, p. 358-370. Lund, Blom, 1948. 61.9 AL5
- 47872 LOISL, L. Observations sur l'emploi des sucédanés au Maroc. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 521-531. 1948. 389.8 An73  
Use of flours other than wheat for bread.
- 47873 MAHR, J. A., and FOUNTAIN, H. S. Small grain drying without heat. Elect. on the Farm Mag. 22(3): 10-11. Mar. 1949. 335.8 EL27
- 47874 MAIOLI, A. Bread manufacture and grain markets [Italy]. (In Italian.) Arte Bianca 4(6): 1, 3. Mar. 15, 1949. 389.8 Ar7
- 47875 MARESCALCHI, A. For our nutrition; possibility of increasing grain production. (In Italian.) Roma Econ. 2: 57-59. Feb. 1949. 280.8 R66
- 47876 MARSH, A. M. Gyrating sifters—old and new. Northwest. Miller (Milling Prod. Sect.) 238(2): 3a, 6a-8a. Apr. 12, 1949. 298.8 N81
- 47877 MARTIN, J. L. Un point de vue particulier sur l'utilisation du maïs en panification. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 533-535. 1948. 389.8 An73  
Discussion, p. 535.
- 47878 MICHIGAN ELEVATOR EXCHANGE. Twenty-eighth annual report for the fiscal year ending June 30th, 1948. Lansing, 1948. 8 p. 59.9 M58
- 47879 NATIONAL COMITÉ VOOR BROUWGERST. Dertiende jaarboekje, 1949. 1949? 116 p. 390.9 N21
- 47880 NEBRASKA FARMERS COOPERATIVE ASSOCIATION. Directory, Nebraska, Colorado farmers elevators, 1948. 1949? 92 p. 225 N28
- 47881 OMAHA GRAIN EXCHANGE. Forty-fifth annual report 1948. 1949? 19 p. 287 Om12  
Statistics of grain shipments and receipts.
- 47882 OREGON WHEAT COMMISSION. Report, April 9, 1947 to October 31, 1948. Pendleton? 1948. 20 p. 59.9 Or3
- 47883 OWEN, N. Provender & compound milling. Miller 80: 233-235, 261-262. (Cont.) Mar. 14-21, 1949. 298.8 M61
- 47884 PAUL, S. DE. El problema comercial de los granos obliga a diversificar la producción. Cooperación [Buenos Aires] (ser. 2) 16(1059): 3. Mar. 25, 1949. 280.28 C7876  
Argentina.
- 47885 PÉREZ Y PÉREZ, F. Características comerciales de trigos mexicanos. Mex. Dir. de Econ. Rur. B. Mens. 266: 575-577. July 1948. 254.5 Ag83  
Analysis and composition.
- 47886 PÉREZ Y PÉREZ, F. Determinación química de la sanidad de los cereales. Mex. Dir. de Econ. Rur. B. Mens. 271: 836-838. Dec. 1948. 254.5 Ag83
- 47887 PÉREZ Y PÉREZ, F. Estudio del trigo barrión de la Región del Mayo. Mex. Dir. de Econ. Rur. B. Mens. 264: 367-369. May 1948. 254.5 Ag83  
Analysis.
- 47888 PÉREZ Y PÉREZ, F. Influencia de la humedad sobre el peso por hectolitro del trigo. Mex. Dir. de Econ. Rur. B. Mens. 273: 40-43. Feb. 1949. 254.5 Ag83
- 47889 PETERSON, K. D., and WALLACE, B. A. Ohio elevators provide yardsticks. News Farmer Coops. 15(12): 15-17. Mar. 1949. 166.2 N47  
Records of grain cooperatives.
- 47890 PETERSON, K. D. What will we do with last year's corn crop? Ohio Farmer 293(7): 8-9. Apr. 2, 1949. 6 Oh3
- 47891 PORTLAND, OREGON. MERCHANTS EXCHANGE. Trading rules, Portland-grain exchange daily bid and offer market. Portland, 1948. 18 p. 287 P833
- 47892 RIDYARD, H. N. The determination of aneurine (vitamin B<sub>1</sub>) in uncooked wheat products. Analyst 74: 18-24. Jan. 1949. 382 An1
- 47893 ROTSCH, A. Die bestimmung der löslichen kohlehydrate. Getreide, Mehl u. Brot 3: 37-38. Mar. 1949. 298.8 G33  
In grain products.
- 47894 ROWE, B. M. Hats off to corn! A life line of America story of the largest and most widespread farm crop. Farmer [St. Paul], Gen. Ed. 67(5): 12, 60. Mar. 5, 1949. 6 F2211  
Chiefly utilization.
- 47895 SAJA, F. The price of bread. (In Italian.) Cron. Econ. 54: 4. Mar. 20, 1949. 280.9 C882  
Includes grain prices.
- 47896 SANCHEZ-MARROQUIN, A., and GAVARRON, F. F. Estudios sobre la amilasa de Endomycopsis fibuliger. IV. Características de su acción sobre el almidón comercial. Mex. Esc. Nac. de Cien. Biol. An. 5: 7-12. Ref. Nov. 15, 1948. 442.9 M573  
English summary.
- 47897 SCHAD, C. Recherche et expérimentation sur la qualité des variétés de blé dans la région du Massif central. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 319-335. 1948. 389.8 An73
- 47898 SCHMITT, L. Die maismüllerei. Kurzbrieft f. Ernähr. u. Landw. 12, B III 4: 1. (Concl.) Dec. 1948. 281.8 K96
- 47899 SCHONBERG, J. S. Grain futures are pulse of trade. Feed Bag 25(3): 59-60, 113. Mar. 1949. 389.78 F32
- 47900 SENBORN, A., and SENBORN, B. Supplement to the examination of the influence of storage on the quality of wheat. (In Croatian.) Yugoslavia. Min. Poljoprivrede. Arh. za Poljoprivredne Nauka i Teh. 3(5): 69-75. Ref. 1948. 21.5 Y9  
English summary.
- 47901 SOROA, J. M. DE. Iniciación al estudio de la molinería. Balearic Isl. Diputación Prov. B. de Agr. 53: 8-10. Feb. 1949. 15 B19
- 47902 STARK, W. H., and others. New developments in alcohol production from grain mash. (Abs.) Internat. Cong. Microbiol. Rpt. Proc. (1947) 4: 550-551. 1949. 442.9 In83  
P. Kolachov, L. A. Smith, H. C. Blankmeyer, and H. F. Willkie, joint authors.
- 47903 STARK, W. H., and others. The production of 2, 3-butylene glycol from grain. (Abs.) Internat. Cong. Microbiol. Rpt. Proc. (1947) 4: 549-550. 1949. 442.9 In83  
S. L. Adams, P. Kolachov, and H. F. Willkie, joint authors.
- 47904 STOCKBURGER, S. Essen wir zu billiges brot? Bad. Landw. Wchbl. 116: 141-142. Mar. 19, 1949. 18 B142  
Includes grain prices.  
Also in Württemb. Wchnbl. f. Landw. 116: 185-186. Apr. 2, 1949. 18 W96
- 47905 SUGDEN, G. H. Sifting methods, a discussion of general principles. Milling 112: 256-259. Mar. 12, 1949. 298.8 M622
- 47906 SWEENEY, O. R., and ARNOLD, L. K. Moisture relations in the manufacture and use of cornstarch insulating board. Iowa Engin. Expt. Sta. B. 163, 34 p. 1948. 280.9 Io9
- 47907 SWORD, J. Milling values of oat varieties. Miller 80: 263-267. Mar. 21, 1949. 298.8 M61
- 47908 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Motor fuel from farm products, by R. T. Milner, R. Wiebe, and B. Burton. Washington, 1949. 3 p. 1.914 R2R11  
From grains and crop residues.
- 47909 U. S. EXTENSION SERV. Educational work in grain grading in 1948, by W. B. Combs. Chicago, 1949. 5 p. 1.913 A3Ed8
- 47910 VALDEYRON, G., and SEGUALA, M. J. Quelques particularités de l'utilisation des céréales et de leurs produits dans l'alimentation indigène en Afrique du Nord. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 667-669. 1948. 389.8 An73
- 47911 VALENTINI, M. The grain battle. (In Italian.) Terra [Firenze] 60(9): 1. Feb. 27, 1949. 16 T274
- 47912 VELDHIJZEN, H. VAN. The brewing barley exhibition of 1947 and the quality of Dutch brewing barley for the 1947 harvest. (In Dutch.) Natl. Com. v. Brouwergerst. Jaarb. 1949: 11-35. 390.9 N21



47913 VELDHUIZEN, H. VAN. Brewing barley harvest 1948. (In Dutch.) Natl. Com. v. Brouwgerst. Jaarb. 1949: 7-10. 390.9 N21  
Netherlands.

47914 VELDHUIZEN, H. VAN. Thirteenth annual report of NaCoBrouw, May 1, 1947-April 30, 1948. (In Dutch.) Natl. Com. v. Brouwgerst. Jaarb. 1949: 5-6. 390.9 N21

47915 VONK, H. Possibilities of increasing rice production on the isle of Java. (In Dutch.) Econ.-Statist. Ber. 34: 171-173. Mar. 2, 1949. 280.8 Ec722  
English summary.

47916 WALLACE, B. A. Development of the farmer elevator movement in the State of Ohio. Columbus, 1948. 32 p. 280.259 W15

47917 WELSER, K. Die müllereifibel; ein catechismus der müllerei für lehrlinge und gesellen. Wien, Poech, 1948. 184 p. 298 W46

47918 WILKINSON, N. A few hints on mill erection work. Miller 30: 283-284. Mar. 28, 1949. 298.8 M61

47919 WILTEN, W. Report on a trip to Denmark and Sweden in 1948. (In Dutch.) Natl. Com. v. Brouwgerst. Jaarb. 1949: 78-88. 390.9 N21  
Barley production.

47920 WORKING, H. Professor Vaile and the theory of inverse carrying charges. J. Farm Econ. 31: 168-172. Feb. 1949. 280.8 J822  
In grain futures markets.

### HONEY AND BEESWAX

47921 ANDERSSON, I. On honey prices 1947 and 1948. (In Swedish.) Bitidningen 48: 54-55. Feb./Mar. 1949. 424.8 B54

47922 FORESTI, C. Inspection of honey intended for direct consumption. (In Italian.) Prog. Vet. 3: 450-455. Ref. Dec. 15, 1948. 41.8 P942

47923 HEITZMANN, P., and BOUCHARD, G. Sur le métabolisme de la cire d'abeille par les microorganismes. Paris. Acad. des Sci. Compt. Rend. 228: 713-714. Feb. 21, 1949. 505 P21

47924 IOIRISH, N. P. Antibacterial substances in honey. (In Russian.) Priroda 37(12): 56-57. Ref. Dec. 1948. 410 P933

47925 KELLEY, W. T. How to build a good low-priced roadside stand. Mod. Beekeeping 33: 45-50. Feb. 15, 1949. 424.8 B397  
Honey marketing.

47926 PAISLEY, T. J. You must advertise. Gleanings Bee Cult. 77: 205. Apr. 1949. 424.8 G47  
Honey.

47927 RAHMLow, H. J. We can sell more honey. Gleanings Bee Cult. 77: 208-209. Apr. 1949. 424.8 G47

47928 SEVALLÉ FILS, E. Le miel dans l'économie du pays. Apiculteur 93: 6-7. Jan. 1949. 424.8 Ap3  
France.

47929 U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey report, 1948. Boise, 1949. 2 p. 1.941 S8H753  
Honey and beeswax statistics.

### LIVESTOCK AND LIVESTOCK PRODUCTS

47930 ADAIR, W. A beef-cattle awakening ahead. I. Farming News & North Brit. Agr. 101(11): 5. Mar. 11, 1949. 10 N82

Need of a policy to stimulate increased production in Scotland.

47931 AGUIRRE AGUDELO, R. La ganadería en la riqueza nacional. Ganado 3(10): 47. Feb. 1949. 49 G153

Colombian livestock situation.

47932 AMARAL, J. B. DE S. The problem of meat and the situation of Brazilian cattle. (In Portuguese.) Soc. Rural Bras. Rev. 28: 12-13. Jan. 1948. 9.2 B733

47933 ARÁN, S. Alimentación y previsión en ganadería. Cult. Mod. 30: 133-134. Apr. 1947. 15 C89  
Economic aspects.

47934 ARCÉS, J. D' La production animale en 1947-48 et l'action du service de l'élevage. Soc. des Agr. d'Algérie. B. 91: 166-193. Oct. 1948. 24 So1

47935 ARMOUR AND COMPANY. Livestock and meat industry trip, June 13/25, 1948. Chicago, 1948. Unpaged. 50.9 Ar5L

Have also Tour, October 18 to 30, 1948.

47936 AUSTRALIA. ADMINISTRATOR OF THE NORTHERN TERRITORY. Report on the administration of the Northern Territory for year 1946-47. 1948. 19 p. 271.423 G74

Includes animal industry and lands and surveys.

47937 BAARDSETH, K. Reorganization of the public institutions for the aid of livestock raising. (In Norwegian.) (Excerpts.) Norsk Landbr. 15: 103-105. Mar. 18, 1949. 11 N8122

47938 BARRAZA Q., O. Chilean livestock. (In Italian.) Zootec. e Vet. 3: 709-710. Nov. 1948. 41.8 Z7

47939 BLAKE, R. W. Mink breeding industry in Britain being developed on small scale. Foreign Trade 5: 584-586. Mar. 19, 1949. 286.8 C162

47940 BLYTH, J. What is wrong with the rabbit industry? Amer. Small Stock Farmer 33: 6. Feb. 1949. 48.8 J82

47941 BOWERS, R. D. It's the law. Farm Q. 4: 68-71, 92, 94. Spring 1949. 6 F22995

Misdeeds of farm stock and the consequences in law.

47942 BRYSON, H. C. The leather industry in Portugal. Leather Trades' Rev. 91: 525-527. Mar. 9, 1949. 303.8 L48

47943 CAMPREDON, J. P. L'avenir de l'élevage dans les Beni Amir et Beni Moussa. B. Econ. et Social du Maroc 11(38): 5-15. July 1948. 280.8 So18

47944 CARNES, N. K. Livestock and dairying. Land O'Lakes News 29(3): 24-25. Mar. 1949. 44.8 L22

47945 CHAMPEVAL, Le village d'Hanoteau risque de se dépeupler. Voix des Colons 31(1496): 2. Mar. 21, 1949. 24 V85

Presents a forage plant and livestock production policy for an Algerian district.

47946 ELLIOTT, J. A. Where good stock get together. Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(4): 19. Apr. 1949. 6 P945G

Livestock industry in Alabama.

47947 FÉDÉRATION NATIONALE DE LA PROPRIÉTÉ PRIÉTÉ AGRICOLE. Les baux à cheptel. Paris, 1948? 18 p. 281.340 F31

47948 GRINSTEAD, F. L. Rabbit raising—a profitable industry. 1. Better Farms 8(11, i. e. 9): 3. Oct. 1, 1948. 6 B462

47949 GUIMÁRAES, M. M. Brazilian meat supply has increased but there is still not enough for the domestic market. (In Portuguese.) Rev. dos Criadores 20(2): 6, 8, 10. Feb. 1949. 43.8 R32

47950 GUSTAFSSON, F. The production of horses must be increased! (In Swedish.) Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige 19(14): 1, 4. Apr. 2, 1949. 11 J762

47951 GUTIÉRREZ DELGADO, L. Significación económica de la ganadería. Rev. Ganad. [Habana] 9(4): 22-23. Apr. 1949. 49 R321

47952 HALL, A. G. The cattle and beef industry. Indus. and Develpmt. Council. Canad. Meat Packers Let. Canad. Livestock Prod. 1949(2): 1-2. Feb. 1949. 286.85 In2

47953 HEROLD. Die tierhalterhaftung. Deut. Viehhandel 4(1): 5. Jan. 15, 1949. 49 D482

47954 HEROLD, F. Wiederum: viehhandel und tierzuchtverbände. Deut. Viehhandel 4(1): 4. Jan. 15, 1949. 49 D482

47955 HUGHES, E. H. Jobs for students: what are animal husbandry graduates doing in life. Pacific Stockman 15(4): 42. Apr. 1949. 286.85 W52

47956 ITTNER, N. R. A livestock program from scratch. Pacific Stockman 15(4): 50. Apr. 1949. 286.85 W52

47957 JAUME, J. Economía balear: ganado vacuno. Balearic Isl. Diputación Prov. B. de Agr. 52: 2-3. Jan. 1949. 15 B19

47958 KANSAS. STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. The beef cattle outlook, by C. P. Wilson. Manhattan, 1949. 7 p. 275.29 K13Ca

47959 LEÓN, J. A. Recorriendo la colección: 25 años al servicio de la ganadería peruana. Vida Agr. [Lima] 26(302): 11, 13, 15-16. Jan. 1949. 9.8 V66  
On the magazine Vida Agrícola.

47960 LIABILITY for harm caused by livestock. Iowa Law Rev. 34: 318-329. Jan. 1949. L9 Io9

47961 LINDSTRÖM, J. R. Impressions from U. S. A. and Canada. 1. (In Norwegian.) Norsk Pelsdyrbl. 22: 281-284. Sept. 20, 1948. 412.628 N812  
Fox industry.



- 47962 LLERAS RESTREPO, C. La riqueza pecuaria. Ganado 3(10): 31. Feb. 1949. 49 G153  
Colombia cattle situation.
- 47963 LOO, W. P. M. VAN DER. Meat and meat preserves. Holland Shipping & Trading, Spec. Fair No., p. 41-42. Feb. 1949. 286.8 H713
- 47964 MASSEY, Z. A., and FISHER, S. W. Georgia experiment show sheep pay their way—plus a profit. South. Livestock J. 8(10): 25. Apr. 1949. 43.8 F66A
- 47965 MAZZEI, E. Livestock resources of Argentina. (In Italian.) Allevatore 5(4): 1. Jan. 23, 1949. 49 AL55
- 47966 MONTES U., E. Los poderes públicos y la industria ganadera. Rev. Ganad. [San Salvador] 8(110/111): 4. Jan./Feb. 1949. 8 R3292
- 47967 MORRISON, S. R. Thinking in the cattle business. Breeder's Gaz. 114(5): 5, 13. May 1949. 49 B74  
Beef cattle.
- 47968 MOULE, G. R. Fat lamb production in Queensland. Queensland Agr. J. 67: 359-365. (To be cont.) Dec. 1948. 23 Q33  
Situation of the industry.
- 47969 NETSCH, W. A. Sheepmen—write your own future! (Abs.) Farm Policy Forum 2(2): 31-33. Apr. 1949. 281.8 F7224  
Outlook for the industry.
- 47970 NIELEBOCK, E. Das rassekaninchen ein pelztier. Kleintierzucht. Tierbörse 3(51): 8-9. Jan. 10, 1949. 49 K672
- 47971 NORWAY. LANDBRUKSDEPARTEMENTET. Melding om de offentlige tiltak til å fremme husdyralet i året 1945 [Report on official efforts for promoting livestock raising in the year 1945]. (In Norwegian.) Oslo, 1948. 86 p. (Its Årsmelding. Tillegg D). 11 C46D
- 47972 OKLAHOMA. STATE DEPT. OF AGRICULTURE. Oklahoma livestock breeders directory. Oklahoma City, 1948. 125 p. 225 Ok43
- 47973 OTT, G. L. Godparent to the fur industry. Wis. Conserv. B. 14(3): 32-33. Mar. 1949. 279.8 W752  
Experimental fur farm.
- 47974 PASTOR PASCUAL, A. El ganadero y el técnico en las explotaciones pecuarias. Balearic Isl. Diputación Prov. B. de Agr. 53: 6-7. Feb. 1949. 15 B19  
Incules policy for the industry.
- 47975 POE, C. Can the South equal the West as a livestock region? Prog. Farmer, Miss.-Ark.-La. Ed. 64(4): 142. Apr. 1949. 6 So81
- 47976 QUESADA BRAVO, G. Problemas y perspectivas de la ganadería. Rev. de Econ. 12: 89-94. Mar. 15, 1949. 280.8 R3293  
Mexico.
- 47977 ROSSI, R. P. The cattle business in the Turin area. (In Italian.) Allevatore 5(2): 5. Jan. 9, 1949. 49 AL55
- 47978 ROUSSET, H. La situation porcine dans le département des B.-du-Rh. et limitrophes. Bouches du Rhone Agr. 22(998): 11. Mar. 15, 1949. 14 B662
- 47979 STEELE, J. A. Livestock improvement in Sweden. Country Guide 68(3): 99-100. Mar. 1949. 7 G76  
Policy.
- 47980 TALEGON HERAS, A. Revalorización de los cueros. Campo [Sevilla] 8(83): 15. Feb. 1949. 15 C15  
Spain.
- 47981 TAPIAS MARTIN, S. Explotaciones ganaderas orientadas a la producción carne. Campo [Sevilla] 8(83): 19-20. Feb. 1949. 15 C15
- 47982 THORNE, G. B. Current trends in swine industry. Poland China World 36(3 i.e. 4): 23-27. Apr. 1949. 46.8 Sw62
- 47983 THORNE, G. B. Red meat versus white meat and lard. Amer. Hampshire Herdsman 24(3): 18, 20, 22, 46-47. Mar. 1949. 46.8 Am33
- 47984 TONKINSON, E. The leather industry in the Midlands. Leather Trades' Rev. 91: 655-657. Mar. 23, 1949. 303.8 L48
- 47985 TORRENS PASTOR, A. El control de la producción animal. Balearic Isl. Diputación Prov. B. de Agr. 52: 12-16. Jan. 1949. 15 B19  
Spain.
- 47986 TORRENS PASTOR, A. Economía zootécnica. Balearic Isl. Diputación Prov. B. de Agr. 53: 11. Feb. 1949. 15 B19
- 47987 TURNER, SIR H. World meat supplies. Gt. Brit. Min. Food. B. 486: 6-8. Feb. 28, 1949. 389.9 G79B

- 47988 U. S. BUR. OF AGRICULTURAL ECONOMICS. Early spring lamb crop, 1949. Columbia, Mo., 1949. 2 p. 1.9 Ec742E  
Similar report issued at Boise, Idaho.
- 47989 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Livestock losses in Western storms, by O. C. Stine, W. F. Callandar, F. W. Beier, Jr., and others. Washington, 1949. 6 p. 1.914 R2R11

#### Analysis and Composition

- 47990 KRITZINGER, C. C. Studies on globular proteins of animal skins. V. The distribution of globular proteins in fresh steer hide. Amer. Leather Chem. Assoc. J. 44: 216-227. Ref. Apr. 1949. 303.9 Am32
- 47991 NÉVOT, A., and JACQUE, R. Examen bactériologique de 400 prélèvements de viandes de boucherie. Acad. Vét. de France. B. 22: 33-37. Jan. 1949. 41.9 R24
- 47992 REISER, R. Peroxidizing and carotene bleaching substances in bacon adipose tissue. Amer. Oil Chem. Soc. J. 26: 116-120. Ref. Mar. 1949. 307.8 J82
- 47993 STUBBINGS, R. L., and THEIS, E. R. Studies in animal skin proteins. VIII. The basic and acidic amino acid content of collagen and the effect of depilation upon such acids. Amer. Leather Chem. Assoc. J. 44: 178-193. Ref. Apr. 1949. 303.9 Am32  
Includes discussion.

#### Consumption and Utilization

- 47994 CLELAND, S. B. Asserts meat dealers try to keep alert to consumer buying power. Midland Coop. 16(31): 3. Apr. 6, 1949. 280.28 M58
- 47995 SAGOSCHEN, J. A. Comment tirer parti des déchets de tannerie. Rev. Tech. des Indus. du Cuir 41(2): 21-25. Feb. 1949. 303.8 C89
- 47996 SIMMONS, W. M. Changes in meat purchases. N. Y. Agr. Col. Farm Econ. 167: 4308-4309. Mar. 1949. 280.8 C812  
New York.

#### Distribution, Marketing, and Transportation

- 47997 COHEN, R. M. Eat more meat. Butchers' Advocate 125(15): 8, 11. Apr. 13, 1949. 286.85 B97
- 47998 DOWELL, A. A., and others. Marketing slaughter cattle by carcass weight and grade. Minn. Agr. Expt. Sta. Tech. B. 181, 64 p. Feb. 1949. 100 M66  
G. Engelman, E. F. Ferrin, and P. A. Anderson, joint authors.
- 47999 DUBBELL, R. W. Prices and markets for today's rabbits. Poultry & Rabbit Monthly 17(3): 4. Mar. 1949. 47.8 P8654  
Also in Natl. Rabbit Raiser 4(7): 16-17. Mar. 1949. 40.28 R11; Calif. Rabbit News 9(12): 3-4. Mar. 1949. 40.28 C12  
As meat producers.
- 48000 FRENCH, H. W. Bullish aspects in market for the long-time pull. Amer. Cattle Prod. 30(11): 14, 16, 33-34. Apr. 1949. 49 P94
- 48001 FREYBE, C. Jahr 1949 - ein wendepunkt in der bewirtschaftung? Deut. Viehhandel 4(1): 3. Jan. 15, 1949. 49 D482
- 48002 GIUDICE, R. Supplying meat to the large cities. (In Italian.) Prog. Vet. 4: 43-45. Jan. 30, 1949. 41.8 P942  
Italy.
- 48003 HALL, H. W. Modern marketing. Nation's Agr. 24(4): 9-10. Apr. 1949. 280.82 B89  
Livestock.
- 48004 HOFFMANN, W. Wärschaft beim pferde- und viehhandel. Allgäuer Bauernbl. 17: 87-89. Feb. 18, 1949. 18 AL53  
Germany.
- 48005 HOULDSOON, F. E. A rabbit meat campaign. Amer. Small Stock Farmer 33: 4-5. Feb. 1949. 48.8 J82
- 48006 KELLY, J. H. Losses of cattle and beef; survey commenced in Northern Australia. Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ. 2: 20. Jan. 1949. 281.9 Au73  
Due to transportation.
- 48007 KOOS, I. W. The co-operative pelt pool. Amer. Rabbit J. 19: 42-44. Mar. 1949. 40.28 Am3
- 48008 KREHAN, H. Kenntnis der viehmängel bewahrt vor schaden! Pflug 2: 33-34. Feb. 1949. 19 P48  
In purchasing.



- 48009 KROMPHARDT. Marktpaltung und soziale verantwortung. (Sum.) Deut. Viehhandel 4(2): 1. Jan. 31, 1949. 49 D482
- 48010 LINDSTRÖM, J. R. The January auction 1949. (In Norwegian.) Norsk Pelsdyrb. 23: 21-22. Feb. 5, 1949. 412.628 N812
- Furs.
- 48011 OSTERWALD, G. Unrentabler ferkelhandel. Deut. Viehhandel 4(1): 2. Jan. 15, 1949. 49 D482
- 48012 SCHÖNBORN, G. Zur frage des freibankwesens. Deut. Tierärztl. Wchnschr. 55: 118-121. Apr. 15, 1948. 41.8 D482
- Meat marketing.
- 48013 STODART, J. A. The future marketing of fat live stock. Scot. Farmer 57: 481. Feb. 19, 1949. 10 Sco8

#### Grading, Inspection, Standardization, and Quality

- 48014 ANDERSON, P. A. Benzene hexachloride may flavor beef and pork. Minn. Farm and Home Sci. [Minn. Sta.] 6(2): 10. Feb. 1949. 100 M668
- 48015 CARDONA, L. Food poisoning from rabbit meat. (In Italian.) Zooprofilassi 3: 316-317. Nov. 1948. 41.8 Z72
- 48016 CARTER, S. Meat grading and buying. If you know something about official grades of meat you will save money. Amer. Drug. 119(4): 142, 144, 148. Apr. 1949. 396.8 Am32
- 48017 COFFEY, J. S. Carcass quality and compensation. Berkshire News 14(6): 4, 16. Apr. 1949. 46.8 B454
- 48018 HAM, W. E., KLINE, E. A., and ENSMINGER, M. E. Residual arsenic and strychnine in the tissues of drug-treated cattle. Amer. J. Vet. Res. 10: 150-153. Ref. Apr. 1949. 41.8 Am3A
- 48019 KOLLER, R. Schimmelpilze auf fleisch und ihre bekämpfung. Wien. Tierärztl. Monatsschr. 35: 145-155, 204-214. Apr.-May 1948. Ref. 41.8 T345
- 48020 KRENN, E. Kontrolle beim fleischhauer und selcher. Wien. Tierärztl. Monatsschr. 35: 155-161, 214-220. Apr.-May 1948. 41.8 T345
- 48021 LEIBFRIED, E. Schlachtgenehmigung, ablieferungspflicht. Bad. Landw. Wchbl. 116: 33. Jan. 22, 1949. 18 B142
- 48022 MCAULIFFE, W. S. Baconer carcass appraisals; a summary of the Baconer Carcass appraisals carried out in South Australia during the year 1948. So. Austral. Dept. Agr. J. 52: 279-280. Jan. 1949. 23 So84
- 48023 MCAULIFFE, W. S. South Australian Baconer Carcass Competition. So. Austral. Dept. Agr. J. 52: 231-235. Dec. 1948. 23 So84
- 48024 MARTI GÜELL, S. E. Higiene de la carne y productos alimenticios derivados de la misma. Rev. de Sanidad Vet. 3: 833-837. Nov. 15, 1948. 41.8 R3222
- 48025 MATTEO, P. DI. Sanitary control in the business of some cooked meats. (In Italian.) Prog. Vet. 3: 445-447. Dec. 15, 1948. 41.8 P942
- Pork products.
- 48026 MIRRI, F. Trichinoscopic examination. (In Italian.) Prog. Vet. 4: 13. Jan. 15, 1949. 41.8 P942
- 48027 RASCHKE, O. Ernährungswirtschaftlich wichtige, tierärztliche aufgaben auf dem gebiete der fleischhygiene. Deut. Tierärztl. Wchnschr. 55: 151-153. May 15, 1948. 41.8 D482
- 48028 ROMBOLI, B. Trichina infestation and the practical importance of trichinoscopic examination of the meat of slaughtered swine. (In Italian.) Prog. Vet. 3: 428-430. Dec. 1, 1948. 41.8 P942
- 48029 SAUSAGE spoilage and its prevention. Natl. Provisioner 120(14): 27-28. Apr. 2, 1949. 286.85 N21
- First article in a series.
- 48030 VISSER, C. H. Control of hides and skins. (In Afrikaans.) Primary Prod. [Cape Town] 24(7): 9. Feb. 18, 1949. 281.8 P93

#### Prices, Price Control, and Rationing

- 48031 CONWAY, H. M. Costs of distribution potentially depressing to live stock prices. Natl. Live Stock Prod. 27(7): 9. Apr. 1949. 280.28 N21
- 48032 HOLBORN, G. Blizzards and meat prices. Rural New-Yorker 99: 260. Apr. 2, 1949. 6 R88
- 48033 LANIER, P. Le bétail baisse. Agr. du Sud-Est 56(5): 1-2. Mar. 13, 1949. 14 Ag88
- France.

- 48034 PERRON, J. Le veau de lait est-il payant? B. des Agr. 45(4): 15, 93. Apr. 1949. 7 B872
- Canada.

#### Processing and Storage

- 48035 ATKIN, W. R., and BURTON, D. Vegetable tanning. II. Soc. Leather Trades' Chem. J. 33: 52-68. Feb. 1949. 303.9 So12
- 48036 BELL, C. E., JR. The farm pork supply. Ga. Agr. Col. Ext. B. 448, rev., 19 p. Jan. 1948. 275.29 G29B
- The slaughtering, cutting, curing and storing of pork on the farm.
- 48037 BOUGLEUX, L. De l'utilisation du froid pour la fabrication et le sechage industriel des saucissons secs et jambons. Rev. Prat. du Froid 4(7): 28-29. Apr. 1949. 295.8 R323
- 48038 CALLOW, E. H. The action of salts and other substances used in the curing of bacon and ham. Gt. Brit. Dept. Sci. and Indus. Res. Food Invest. Mem. 565: 269-274. Ref. 1948. 389.9 G792M
- 48039 CHAMBAR, P., and LASSERRE, R. Le tannage au zirconium. Assoc. Franç. des Chim. des Indus. du Cuir 11: 1-24. Jan. 1949. 303.8 B87
- 48040 FINNERTY, J. J. Grinding improved by new knives. Food Indus. 21: 479. Apr. 1949. 389.8 F737
- For meat.
- 48041 GUSTAVSON, K. H. The chrome-vegetable tannage. Soc. Leather Trades' Chem. J. 33: 68-75. Ref. Feb. 1949. 303.9 So12
- 48042 KOLLER, R. Trockenfleisch. Wien. Tierärztl. Monatsschr. 36: 79-86. (To be cont.) Feb. 1949. 41.8 T345
- 48043 LIPSITZ, P., KREMEN, S. S., and LOLLAR, R. M. Studies of vegetable tannage. VII. The tanning potential of purified lignosulfonates and true tannins. Amer. Leather Chem. Assoc. J. 44: 194-204. Ref. Apr. 1949. 303.9 Am32
- Includes discussion.
- 48044 PARET, R. E. Care of stainless steel meat processing equipment. Meat 30(5): 54. Apr. 1949. 286.85 M464
- 48045 RAMSBOTTOM, J. M., and ROSCHEN, H. L. Edible life of meats in household refrigerators. Refrig. Engin. 57: 327-331, 350. Apr. 1949. 295.9 Am32J
- 48046 ROCHMANN, R. Better treatment of fox and mink furs necessary. (In Norwegian.) Norsk Pelsdyrb. 22: 285. Sept. 20, 1948. 412.628 N812
- 48047 RODRIGUEZ CASALS, C. Preparación de la manteca de puerco. Agr. y Ganad. 24(7): 7-9. July 31, 1948. 8 Ag834
- 48048 SMITH, P. I. New chemicals in tanning: soaking. Leather & Shoes 117(14): 19-20, 24. Mar. 26, 1949. 303.8 H53
- 48049 TERRAZAS MONTAÑO, I. Cueros de bovinos: su conservación. Campo [La Paz] 3(21): 30-32. Jan. 1949. 9.1 C15
- 48050 ULLRICH, K. Fixation of vegetable as well as synthetic tannins. (In Czech.) Tech. Hlídka Koželužská 24: 48-51. Jan. 15, 1949. 303.8 T22
- English summary.

#### Statistics

- 48051 BEHRENS, W. 4,4 millionen marktschweinen im jahre 1949? Deut. Viehhandel 4(2): 2. Jan. 31, 1949. 49 D482
- 48052 GUSTAFSON, A. The number of horses and future possibilities. (In Norwegian.) Norsk Landbr. 15: 66-67. Feb. 18, 1949. 11 N8122
- 48053 GUSTAFSSON, F. Swedish horse raising during the year 1948. (In Swedish.) Skand. Kreatursförsäkringsbolaget. Månadsblad 27: 15-17, 18. Feb. 1949. 49.9 Sk1
- Statistics.
- 48054 HELMENIUS, A. Reflections with regard to the livestock census. (In Swedish.) Ladugården 1949: 18-20. Jan. 1949. 44.8 L12
- 48055 LEROY, A. Le mouton, statistiques comparées dans le monde et en France. France. Min. de l'Agr. Rev. Inform. Econ. et Statis. 1948: 125-128. July 1948. 281.8 F84
- 48056 LINDSTRÖM, J. R. The Norwegian fox fur production in 1948. (In Norwegian.) Norsk Pelsdyrb. 22: 287-288. Sept. 20, 1948. 412.628 N812
- Statistics.



48057 MOFFETT, B. W. Dairy cow numbers in North analyzed. *Farm & Gard.* [Watertown, N. Y.] 1949: 1. Mar. 19, 1949. 6 F234

48058 NORDQUIST, A. V. Livestock numbers down again. *Agr. Situation* 33(3): 3-4. Mar. 1949. 1 Ec7Ag

48059 PINNER, J. Lamb, mutton and beef. *Austral. Bur. Agr. Econ. Q. Rev. Agr. Econ.* 2: 22-26. Jan. 1949. 281.9 Au73

Statistics.  
48060 STANDARD & POOR. Meats and dairy products; basic analysis. *Standard & Poor's Indus. Surveys* M3B, 16 p. Mar. 31, 1949. 284.9 St22

Statistics.  
48061 U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual livestock report. Austin, 1949. 2 p. 1.941 H8L755

Similar reports issued from Boise, Fargo, Helena, Oklahoma City, and Orlando.

48062 U. S. BUR. OF AGRICULTURAL ECONOMICS. Storm losses of livestock to February 1. Washington, 1949. 2 p. 1.941 S8L7522

## OILS AND OILSEEDS

48063 ALBERTSMA, N. A. *Euphorbia marginata* oil. *Paint* 19: 135-136. Apr. 1949. 306.8 P162

48064 ALDERKS, O. H. The study of 20 varieties of soybeans with respect to quantity and quality of oil, isolated protein, and nutritional value of the meal. *Amer. Oil Chem. Soc. J.* 26: 126-132. Mar. 1949. 307.8 J82

48065 ALGERINO, A. Analytical requirements of oils for wool. (In Italian.) *Laniera* 63: 113, 115. Feb. 1949. 45.8 B63

48066 ARNOULD, C. Le soya ou soja. *Acclimatation* 76: 61. Mar. 12, 1949. 14 Ac2

48067 BAILEY, A. E. The semicontinuous deodorization of fats. *Amer. Oil Chem. Soc. J.* 26: 166-170. Apr. 1949. 307.8 J82

48068 BALIGA, M. N., and MEARA, M. L. The component fatty acids and glycerides of Dhupa fat. *Soc. Chem. Indus. J.* 68: 52-54. Feb. 1949. 382 M31

Obtained from seeds of *Vateria indica*.

48069 BEAUDIN, D. La margarine ou le règne de la confusion. *Terre de Chez Nous* 21(21): 3, 20. Feb. 16, 1949. 7 T27

Canada.

48070 BEDOUKIAN, P. Z. Progress in essential oils and perfumery products. (In Italian.) *Riv. Ital. Essenze, Profumi, Pianta Off., Olii Veg., Saponi* 31: 98-103. (Concl.) Ref. Mar. 15, 1949. 308.8 R52

Similar title in *Amer. Perfumer & Essential Oil Rev.* 53: 314-316. (To be cont.) Ref. Apr. 1949. 308.8 Am3

Chemistry.  
48071 BONINO, A. F. Metodo práctico para la determinación del rendimiento industrial de aceite en olivas. *Soc. Cient. Argentina. An.* 146: 374-378. Dec. 1948. 516 Sol

English summary.

Also in *Experimenta* 1: 27. Dec. 1948. 475 Ex72

48072 BORBOLIA, J. M. R. DE LA., ALCALA, and HERRERA, C. G. Estudios sobre el enranciamiento del aceite de oliva. I-III. Accion específica de causas naturales y prooxidantes. *Soc. Españ. de Fis. y Quím. An. Ser. B. Quím.* 44: 1005-1032. Ref. Sept./Oct. 1948. 385 Sol6

48073 CARTER, C. L., and HEAZLEWOOD, W. V. The essential oil of *Pittosporum eugenioides*. *Soc. Chem. Indus. J.* 68: 34-36. Jan. 1949. 382 M31

48074 CASTORINA, S. Olive variety and yield in oil. (In Italian.) *Olearia* 3: 88-90. Feb. 1949. 307.8 OL2

French and English summary.

48075 CHATFIELD, H. W. A review of recent developments in drying oils. *Paint* 19: 115-117. Apr. 1949. 306.8 P162

48076 CHAVES, J. M., and PECHNIK, E. Research on the chemical composition of pataú and bacaba oils. (In Portuguese.) *U. do Brasil. Inst. de Nutr. Trab. e Pesquisas* 1: 241-247. Ref. 1948. 389.9 R47

*Oenocarpus* species.

48077 CHENG, F. W., and ARTHUR, J. C., JR. Viscosity of cottonseed protein dispersions. *Amer. Oil Chem. Soc. J.* 26: 147-150. Apr. 1949. 307.8 J82

48078 CHOQUETTE, C. La margarine? L'agriculture québécoise n'en veut pas! *B. des Agr.* 45(3): 9, 72-74. Mar. 1949. 7 B872

48079 CINQUEGRANI, A. The oil crop in Apulia. (In Italian.) *Mezzogiorno Agr.* 5(11): 4. Mar. 13, 1949. 16 M57

48080 CURTIS, L. C. The use of naked seed in *Cucurbita pepo* as a source of high quality liquid vegetable fat, as a high analysis protein, as a new confection, and as a sandwich spread. *Amer. Soc. Hort. Sci. Proc.* 52: 403-406. Ref. Nov. 1948. 81 Sol2

48081 DONA, R. On the production of Italian lavender oil. (In Italian.) *Piante Officinali* 3(11/12): 20-21. Nov./Dec. 1948. 71.8 P57

48082 EMULSIFIERS improve edible fats. *Butchers' Advocate* 125(16): 11, 16. Apr. 20, 1949. 286.85 B97

Excerpts from talks by J. R. Frorer and P. Kass.

48083 ERDMANN, H., and SELICH, F. Colorimetrische peroxybestimmung in fetten und ölen. *Ztschr. f. Analyt. Chem.* 128: 303-312. 1948. 384 Z3

48084 FERNANDES, J. On copaiba resin oil and its industrial utilization. (In Portuguese.) *Asoc. Com. do Amazonas. B.* 8(89): 3-6. Dec. 1948. 286.9 As7B

48085 FERRARA, A. Production and trade of fats in Canada and Mexico. (In Italian.) *Olearia* 3: 98-110. Feb. 1949. 307.8 OL2

Summary in French and English.

48086 FEUGE, R. O., and GROS, A. T. Modification of vegetable oils. VII. Alkali catalyzed interesterification of peanut oil with ethanol. *Amer. Oil Chem. Soc. J.* 26: 97-102. Ref. Mar. 1949. 307.8 J82

48087 FLACCOMIO, E. Sicily, classic land of the castor bean plant. (In Italian.) *Mezzogiorno Agr.* 5(8): 3. Feb. 20, 1948. 16 M57

48088 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. NUTRITION DIV. Synthetic fats: their potential contribution to world food requirements. *F. A. O. Nutr. Studies* 2, 14 p. Ref. Mar. 1949. 389.9 F735Fan

48089 GILLAM, N. W. Variation of chemical reactions with temperature during the oxidation and polymerization of fatty oils. *Australian Chem. Inst. J. & Proc.* 16: 19-36. Ref. Jan. 1949. 385 Au72

48090 GLOYER, S. W. Refining and fractionating soybean oil with furfural. *Amer. Oil Chem. Soc. J.* 26: 162-166. Apr. 1949. 307.8 J82

48091 GÖNENÇER, N. Oleiculture et l'huile d'olive en Turquie. (In Turkish.) *Türkiye Ziraat Bankası. Üç Ayda Bir Çıkar* 3(9/10): 3-8. Jan./June 1948. 280.9 T842

48092 GREAVES, J. H. A comparative evaluation of drying oils. *Paint* 19: 111-112, 122. Apr. 1949. 306.8 P162

48093 THE GROUNDNUT and its treatment. II. Food Manufacture 24: 125-128. Mar. 1, 1949. 389.8 F736

48094 GUENTHER, E., and ALTHAUSEN, D. The essential oils. v. 2. The constituents of essential oils. New York, Van Nostrand, 1949. 852 p. 308 G93Es

48095 GUPPY, H. W. What "National Peanut Week" means to you. *Calif. Retail Grocers Advocate* 54(13): 22-23. Apr. 1, 1949. 286.28 C12

48096 GUYOT, S. Les difficultés du plan anglais de l'arachide. *Oleagineux* 4: 213-220. Apr. 1949. 77.8 OL2

48097 HAAGEN-SMIT, A. J. Essential oils—a brief survey of their chemistry and production in the United States. *Econ. Bot.* 3: 71-83. Ref. Jan./Mar. 1949. 450 Ec7

48098 HAARER, A. E. Tanganyika Groundnut Scheme. *Empire Prod.* 310: 32. Mar./Apr. 1949. 286.8 Em7

48099 HARDY, E. Plant perfumes and their essential oils: the great Labiate family. *Perfumery & Essential Oil Rec.* 40(2): 43-44, 67. Feb. 1949. 308.8 P41

48100 HILDITCH, T. P. Some aspects of selective hydrogenation of fats. (Abs.) *Chem. & Indus.* 1949: 173-174. Mar. 12, 1949. 382 M31C

48101 HOFFPAUIR, C. L., and GUTHRIE, J. D. The use of aminized and phosphorylated cotton fabrics as ion exchange materials in the preparation of oil seed proteins. *J. Biol. Chem.* 178: 207-212. Mar. 1949. 381 J824

48102 HOLMAN, R. T. Spectrophotometric studies of the oxidation of fats. VIII. Coupled oxidation of carotene. *Arch. Biochem.* 21: 51-57. Ref. Mar. 1949. 381 Ar2

48103 HONN, F. J., BEZMAN, I. L., and DAUBERT, B. F. Infrared absorption of hydroxy compounds in autoxidizing linseed oil. *Amer. Chem. Soc. J.* 71: 812-816. Mar. 1949. 381 Am33J



- 48104 HURD, A. Farming for ground-nuts. Country Life [London] 105: 663. Mar. 25, 1949. 80 C83  
Situation in Tanganyika.
- 48105 INTERNATIONAL COMMISSION FOR THE STUDY OF FATTY MATERIALS. Unified methods for the analysis of fatty materials; third report, 1948. U. S. Bur. Agr. and Indus. Chem. AIC-225, 34 p. Jan. 25, 1949. 1.932 A2Ag82  
Translated from the French by C. L. Hoffpauir.
- 48106 IVANOVA, A. A., and BESPALCO, I. A. Tung type oil from castor oil. Paint 19: 118-122. Apr. 1949. 306.8 P162
- 48107 JGOLEN, M. G. Contribution to the study of pure essence of Narcissus. (In Italian.) Riv. Ital. Essenze, Profumi, Pianta Off., Olii Veg., Saponi 31: 52-53. Feb. 15, 1949. 308.8 R52
- 48108 KLEINZELLER. Fat production from yeast. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 544-546. 1949. 442.9 In83
- 48109 LAURENT, R. Transformation des graines oléagineuses. Inform. Maroc. 412: 1, 3. Dec. 4, 1948. 281.8 In3
- 48110 LIPKIN, M. R., and others. Pycnometers for oils. Analyt. Chem. 21: 504-507. Apr. 1949. 381 J825A  
I. W. Mills, C. C. Martin, and W. T. Harvey, joint authors.  
To determine oil density.
- 48111 LIPS, H. J., GRACE, N. H., and JEGARD, S. Canadian erucic acid oils. III. Shortenings from rape and mustard seed oils. Canad. J. Res. Sect. F, Technol. 27: 28-34. Feb. 1949. 470 C16F
- 48112 LLOPIS, S. Un antiguo aderezo de aceitunas; cómo adobaban las aceitunas los romanos. Aliment. Nac. 7(136): 6-7, 11. Jan. 25, 1949. 389.8 AL42
- 48113 LOOSEN, R. L'économie de l'Islande et les corps gras. Oleagineux 4: 227-231. Apr. 1949. 77.8 OL2
- 48114 LUNDIN, H. Microbiological fat synthesis. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 542-544. 1949. 442.9 In83
- 48115 MACGEE, A. E. Some physical and chemical properties of extraction naphthas. Amer. Oil Chem. Soc. J. 26: 176-179. Apr. 1949. 307.8 J82
- 48116 MCKINNEY, L. L., SOLLARS, W. F., and SETZ-KORN, E. A. Studies on the preparation of soy bean protein free from phosphorus. J. Biol. Chem. 178: 117-132. Ref. Mar. 1949. 381 J824
- 48117 MCVEY, D. H., and SCEARCE, J. L. Working manual for cooperative cottonseed oil mill operators. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 128, 48 p. Feb. 1949. 166.3 M68
- 48118 MADRAS. PUBLIC (ECONOMICS & STATISTICS) DEPT. Statistics—crop—groundnut—1948—fourth or final report. n. p., 1949. 3 p. 77.9 In22G
- 48119 MENHAM, C. G. G. The seed, oil, cake and general produce trade. Milling 112: 306. Mar. 26, 1949. 298.8 M622
- 48120 MIÈGE, E. L'huile de pépins de raisins. Inform. Maroc. 417: 1, 4. Jan. 8, 1949. 281.8 In3
- 48121 MIÈGE, E. La situation et l'avenir des matières grasses. Inform. Maroc. 414: 1-2. Dec. 18, 1948. 281.8 In3
- 48122 MILNER, R. T. Composition and its effects on the price of soybeans and soybean oil. Soybean Digest 9(4): 20-22, 24. Feb. 1949. 60.38 So9
- 48123 MULLENDER, P. Le marché mondial des corps gras au 4<sup>e</sup> trimestre 1948. Oleagineux 4: 238-239. Apr. 1949. 77.8 OL2
- 48124 NALDI, G. The question of price and acidity: virgin olive pulp. (In Italian.) Terra [Firenze] 60(10): 2. Mar. 6, 1949. 16 T274
- 48125 NUILA LOPEZ, L. La instalación de una fabrica de aceites. Rev. Ganad. [San Salvador] 8(110/111): 5-6. Jan./Feb. 1949. 8 R3292  
For cottonseed oil.
- 48126 PAJELLA, A., and GAZZERA, E. Cultivation of olives and oilseeds in Latium. (In Italian.) Olearia 3: 113-122. Ref. Feb. 1949. 307.8 OL2  
French and English summaries.
- 48127 PANTANELLI, E., and BRANDONISIO, V. Yield in oil and pulp of southern Italian olive varieties. (In Italian.) Olearia 3: 77-87. Ref. Feb. 1949. 307.8 OL2  
French and English summary.
- 48128 PECHNIK, E., and CHAVES, J. M. Contribution to the study of the chemical constitution of bakuri guianaorange oil (Platonia insignis, Mart.). (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 213-216. 1948. 389.9 R47
- 48129 PHATAK, S. S., DOLE, K. K., and KARVE, D. D. Cryoscopic studies in some Indian edible oils and fats. Bombay. U. J., Sect. A, Phys. Sci. 17(3): 29-39. Nov. 1948. 513 B633
- 48130 PISKUR, M. M. Annual review of literature on fats, oils, and soaps. 1. Amer. Oil Chem. Soc. J. 26: 179-194. Apr. 1949. 307.8 J82
- 48131 POGGIO, F., and MARTÍN RETORTILLO, M. Espectro de absorción de los aceites de oliva en la zona ultravioleta. Soc. Españ. de Fis. y Quím. An. Ser. A, Fis. 44: 579-588. Sept./Oct. 1948. 334.8 So1  
English summary.
- 48132 PRICHARD, G. L. The fats and oils outlook. Washington? U. S. Prod. and Mktg. Admin., 1949. 6 p. 1.956 F26P93
- 48133 PRIESTMAN, H. L. E. Entire production of margarine in Ireland is being used to fill domestic ration. Foreign Trade 5: 823-824. Apr. 16, 1949. 286.8 C162
- 48134 RAVERA, A. Italian lavender oil industry. (In Italian.) Pianta Officinali 3(11/12): 21-22. Nov./Dec. 1948. 71.8 P57
- 48135 RIERA, F. J. Separadoras de orujo. Surco [Madrid] 7(82): 3-4. Dec. 1948. 15 Su7
- 48136 ROMERYE, S. A. The production of artificial butter. (In Afrikaans.) Landbouweekblad 30(1548): 51-52. Mar. 16, 1949. 24 L232
- 48137 ROSSI, G. Problems of olive production and olive oil manufacture. (In Italian.) Agricoltore [Perugia] 5(21): 2. (Cont.) Nov. 15, 1948. 281.8 Ag822
- 48138 ROVESTI, G. Distillation of lavender. (In Italian.) Pianta Officinali 3(11/12): 5-6. Nov./Dec. 1948. 71.8 P57
- 48139 ROVESTI, P. On the character and extraction of Italian lavender oil. (In Italian.) Pianta Officinali 3(11/12): 16-19. Nov./Dec. 1948. 71.8 P57
- 48140 SABBADINI, E. The failure of the Groundnut Scheme in Tanganyika. (In Italian.) Affrica 4: 69-70. Mar. 15, 1949. 280.8 Af2
- 48141 SCHROEDER, H. M., and TERRILL, R. L. Styrenated drying oils. Amer. Oil Chem. Soc. J. 26: 153-157. Apr. 1949. 307.8 J82
- 48142 SCOFIELD, F., and EDWARDS, L. Drying oils index of 1949. Natl. Paint, Varnish and Lacquer Assoc. Sci. Sect. C. 730, 79 p. Mar. 1949. 306.9 P162C
- 48143 SHAMSHURIN, A. A. Oil from the seeds of Catalpa bignonioides. (In Russian.) Priroda 37(11): 52-53. Nov. 1948. 410 P933  
For use in paint and varnish industry.
- 48144 SLANSKY, P. The drying and ageing of linseed oil films. Paint 19: 113-114, 117. Apr. 1949. 306.8 P162
- 48145 STOUT, L. E., CHAMBERLAIN, D. F., and McKELVEY, J. M. Factors influencing vegetable oil bleaching by adsorption. Amer. Oil Chem. Soc. J. 26: 120-126. Ref. Mar. 1949. 307.8 J82
- 48146 TEETER, H. M., and others. Reactions of tert-butyl hypochlorite with vegetable oils and derivatives; soybean oil. Indus. & Engin. Chem. 41: 849-852. Ref. Apr. 1949. 381 J825  
R. C. Bachmann, E. W. Bell, and J. C. Cowan, joint authors.
- 48147 UNITED PROVINCES. DEPT. OF AGRICULTURE. Final forecast of the til (Sesamum or jinjili) crop for 1948-49. Lucknow, 1949. 2 p. 77.9 In28T
- 48148 U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho rapeseed production in 1948. Boise, 1949. 1 p. 1.941 H8R18
- 48149 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Oleomargarine. Hearings, 81st Cong., 1st sess., Mar. 1-5, 1949. Washington, 1949. 400 p.
- 48150 VALVERDE, E. El aceite de ricino deshidratado en la elaboración de pinturas. Industria 65: 808. Dec. 1948. 297.9 So1
- 48151 VIEIRA, L. M. Wealth in oils: Brazilian production and policy in the face of the world situation. (In Portuguese.) Observador Econ. e Financ. 13(157): 81-85. Feb. 1949. 280.8 Ob72
- 48152 VODIER, G. Production and use of Italian lavender oil. (In Italian.) Pianta Officinali 3(11/12): 13-16. Nov./Dec. 1948. 71.8 P57



- 48153 WAKEFIELD, A. J. Food for Britain and food for Africa; Groundnut Scheme's importance as a prototype for future development plans. *African World Ann.* 1948: 22-23, 25. 286.8 A18
- 48154 WANG, C. C. On the soy-bean of the North-east of China. (In Chinese.) *Cent. Bank Monthly* 3(12): 47-51. Ref. Dec. 1948. 280.9 C335
- 48155 WARNOCK, S. Bright future for soybeans. *Purdue Agr.* 40(6): 6, 17. Mar. 1949. 6 P97
- 48156 WITTCOFF, H. Drying oils from 2,2,6,6-tetramethylcyclohexanol and linseed fatty acids. *Amer. Oil Chem. Soc. J.* 26: 157-161. Apr. 1949. 307.8 J82

## POULTRY AND POULTRY PRODUCTS

- 48157 ALP, H. H. Why poultry and egg cooperatives get into trouble. *Nation's Agr.* 24(4): 10. Apr. 1949. 280.82 B89
- 48158 ANSCHUTZ, E. Syndicat d'Aviculture du Bas-Rhin für eine verbesserte flügelhaltung. *Bas-Rhin Agr.* 4: 160. Mar. 26, 1949. 14 B29
- 48159 BAKER, G. A. An application of linear regression analysis to biometric data. *Poultry Sci.* 28: 293-297. Ref. Mar. 1949. 47.8 Am33P
- "A mathematical model of the relation between white and yolk weights of birds' eggs."
- 48160 BASTOS, H. M. The price of eggs and the middlemen. (In Portuguese.) *Chacaras e Quintais* 79: 325-328. Mar. 15, 1949. 9.2 C34
- Brazil.
- 48161 BEERY, L., PRUDENT, I., and WILSON, E. D. Four methods of defrosting poultry studied. *J. Home Econ.* 41: 203-204. Apr. 1949. 321.8 J82
- 48162 BENNION, N. L. Oregon's turkey industry has made progress. *Norbest Turkey News* 13(8): 1-2. Feb. 1949. 47.38 N75
- 48163 BERMENDER, H. W. Consumers like to see eggs priced by the pound. *Poultry Tribune* 55(4): 14, 36. Apr. 1949. 47.8 P8642
- 48164 CANESTRARI, R. How many hens are raised in Italy? (In Italian.) *Allevatore* 5(6): 5. Feb. 6, 1949. 49 AL55
- 48165 CANESTRARI, R. The preservation of eggs. (In Italian.) *Allevatore* 5(1): 4. Jan. 2, 1949. 49 AL55
- 48166 CARPENTER, C. D. Market competition ahead; the country looks to the East and Northeast to lead the way. *Northeast. Poultryman* 51: 23. Jan. 1949. 47.8 N44
- 48167 CERVA, A. Noch einmal "kückenbezug." *Salzburger Bauer* 4(8): 5. Feb. 24, 1949. 19 Sa3
- 48168 CHESSHER, L. H. Why I sell my products close to home. *U. S. Egg & Poultry Mag.* 55(4): 9-11, 26. Apr. 1949. 286.85 Eg3
- Poultry.
- 48169 CONCANNON, J. J. The balance sheet. *Nulaid News* 26(12): 22-23. Apr. 1949. 47.8 N917
- Poultry Producers of Central California.
- 48170 DILLON, C. E. Curing and smoking turkeys. *Turkey World* 24(4): 23-25. Apr. 1949. 47.38 T84
- 48171 DREWS, H. E. Poultry packers pause for a look ahead. II. *Quick Frozen Foods* 11(9): 78-79, 104. Apr. 1949. 389.8 Q4
- 48172 DUFOUR, L. P. A propos du prix des pousins. *Avic. Québécois* 4(1): 10. Jan. 1949. 47.8 Av55
- 48173 EALES, H. C. The Association's Feed Department in 1948. *Nulaid News* 26(12): 17-18. Apr. 1949. 47.8 N917
- Poultry Producers of Central California.
- 48174 EVANS, R. J., DAVIDSON, J. A., and BUTTS, H. A. Changes in egg proteins occurring during cold storage of shell eggs. *Poultry Sci.* 28: 206-214. Ref. Mar. 1949. 47.8 Am33P
- 48175 GANNON, A. Broilers in Georgia. *Amer. Poultryman* 12(4): 17. Mar. 1949. 47.8 So86
- 48176 GATES, P. J. The expert's way to truss. *Poultry Farmer [London]* 119(3101): 8. Dec. 10, 1948. 47.8 F312
- 48177 GORDEUK, A., and BARR, A. What about your egg marketing cooperative? *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1949: 4, 7. Mar. 23, 1949. 275.29 In2Em
- 48178 GORSLINE, E. P. Sour eggs becoming a problem. *Calif. Farmer, North Ed.* 190: 268. Mar. 12, 1949. 6 C126
- 48179 HAGEMANN, E. Eier mit künstlichem farbstoff. *Geflügelhof* 12: 57-58. Jan. 28, 1949. 47.8 G276
- 48180 HAMMER, O. Unser weihnachtsgeschenk - eierpreisenkung. *Geflügelhof* 12: 115-116. Feb. 25, 1949. 47.8 G276
- Switzerland.
- 48181 HANSEN, R. S. Attacking dirty egg problem. *Washcoegg* 23(3): 6, 30. Aug. 1948. 47.8 W27
- 48182 HARDY, J. I. Feathers from domestic and wild fowl. *U. S. D. A. C.* 803, 28 p. Ref. Feb. 1949. 1 Ag84C
- 48183 HARTSELL, S. E. The testing of frozen eggs for pathogens. *J. Milk & Food Technol.* 12: 107-108. Mar./Apr. 1949. 44.8 J824
- 48184 HAYES, J. B. Retailers need to know about eggs. *Poultry Tribune* 55(4): 9, 48-50. Apr. 1949. 47.8 P8642
- 48185 HÉNAULT, N. L'aviculteur au cours de l'année 1949. *Avic. Québécois* 4(1): 4. Jan. 1949. 47.8 Av55
- Poultry and egg situation.
- 48186 HITE, J. P., and others. Fat rancidity in eviscerated poultry. III-IV. *Poultry Sci.* 28: 244-253. Ref. Mar. 1949. 47.8 Am33P
- S. E. Kloxin, F. A. Kummerow, G. E. Vail, and T. B. Avery, joint authors.
- III. The effect of variations in dietary fat, ethanolamine and choline on the storage quality of mature turkeys; IV. The effect of variations in dietary fat, ethanolamine and choline on the characteristics of the fat extracted from turkeys, by J. P. Hite, S. E. Kloxin, and F. A. Kummerow.
- 48187 HUDSON, R. A. What commercial users expect of dried eggs. *U. S. Egg & Poultry Mag.* 55(4): 14-15, 26-27. Apr. 1949. 286.85 Eg3
- 48188 INTERNATIONAL BABY CHICK ASSOCIATION. Who's who in the hatchery world and year book for 1949. Kansas City, Mo., 1948. Ed. 15, 528 p. 47.9 In83
- 48189 JEWELL, J. D. Which shall it be—fresh or frozen [poultry]. *U. S. Egg & Poultry Mag.* 55(5): 8-9, 27. May 1949. 286.85 Eg3
- 48190 JULL, M. A. More effective teaching program. *Poultry Sci.* 28: 236-239. Mar. 1949. 47.8 Am33P
- Relation to income derived from poultry products in the several states.
- 48191 KAHLLENBERG, O. J. Now—a quick, reliable gage of yolk color. *Food Indus.* 21: 467-470. Apr. 1949. 389.8 F737
- 48192 KEILHOLZ, F. J. You can make money with 100 hens. *Country Gent.* 119(4): 18, 84, 86-87. Apr. 1949. 6 C833
- 48193 KOONZ, C. H. What's our consumer score? *U. S. Egg & Poultry Mag.* 55(5): 12-13, 22-23. May 1949. 286.85 Eg3
- Consumer preferences for poultry.
- 48194 LAWLER, J. Comments on association activities. *Nulaid News* 26(12): 12-13. Apr. 1949. 47.8 N917
- Poultry Producers of Central California.
- 48195 LAWLER, J. 1948 annual report of Poultry Producers of Central California. *Nulaid News* 26(12): 6-8, 51-53. Apr. 1949. 47.8 N917
- 48196 LEACH, R. L. At Cal.-Polytech they teach hatchery management. *Hatchery & Feed* 23(4): 8, 45. Apr. 1949. 47.8 H28
- 48197 LENNARTSON, R. W. How many broilers will we need? *Poultry Tribune* 55(4): 7, 38-40. Apr. 1949. 47.8 P8642
- 48198 LEONT'EV, I. F. Enzymes in poultry eggs. (In Russian.) *Priroda* 37(12): 52-53. Dec. 1948. 410 P933
- 48199 LOWRIE, A. W. The Poultry Department [Poultry Producers of Central California] in 1948. *Nulaid News* 26(12): 19-21, 49-50. Apr. 1949. 47.8 N917
- 49200 MCGINTY, J. A package sale to chick customers for profits and goodwill. *Hatchery & Feed* 23(4): 15, 39-40. Apr. 1949. 47.8 H28
- 49201 MANBECK, C. F. More dollars for the broiler industry. *Northeast. Poultryman* 51: 5. Jan. 1949. 47.8 N44
- 49202 MANN, D. Now they're selling cooked whole chickens, or cut up and packaged in every way imaginable. *Kans. Farmer* 86(5): 6, 38. Mar. 5, 1949. 6 K13
- 49203 MASON, E. E. Midwestern processor tries out a new egg marketing plan. *U. S. Egg & Poultry Mag.* 55(5): 16-17, 21. May 1949. 286.85 Eg3



48204 MEHRING, A. L., JR., and NESBITT, L. L. A comparison of loss in weight of eggs held in three different environments. *Poultry Sci.* 28: 309-310. Mar. 1949. 47.8 Am33P

48205 MESSER, P. J. How can we strengthen the weakest connecting link in our egg distribution chain? *U. S. Egg & Poultry Mag.* 55(4): 19-20, 22. Apr. 1949. 286.85 Eg3

48206 MICKELSEN, O. A. Handle eggs with care. *Utah Farmer* 68(14): 18, 33. Mar. 12, 1949. 6 D45

48207 MILLER, H. I. When and where do eggs lose their quality? *U. S. Egg & Poultry Mag.* 55(5): 18-19, 24. May 1949. 286.85 Eg3

48208 MOFFETT, A. G. Graded poultry will build sales with quality conscious customers. *Va. Foodsman* 10(4): 8. Apr. 1949. 286.28 V81

48209 MOFFETT, B. W. Record baby chick production in prospect. *Farm & Gard.* [Watertown, N. Y.] 1949: 1, 6. Mar. 5, 1949. 6 F234

48210 MOORE, A. C. We cannot count on the DPK market for ever. *Poultry* [London] 104: 214. Mar. 15, 1949. 47.8 P869

Producing eggs for hatching.

48211 O'BRIEN, J. V. Industrial relations. *Nulaid News* 26(12): 31-32. Apr. 1949. 47.8 N917

Report of Industrial Relations Division of Poultry Producers of Central California.

48212 ODELL, J. G. What should the standards be? *U. S. Egg & Poultry Mag.* 55(5): 20-21. May 1949. 286.85 Eg3

Eggs.

48213 PEARCE, J. A., and THISTLE, M. W. Dried whole egg powder. XXVIII. Reproducibility and interrelation of methods of assessing quality. *Canad. J. Res. Sect. F, Technol.* 27: 73-79. Ref. Feb. 1949. 470 C16F

48214 PENNINGTON, M. E. How to keep good eggs good. *U. S. Egg & Poultry Mag.* 55(5): 5-7. May 1949. 286.85 Eg3

Care and handling.

48215 PITTONI, G. Poultry raising in Denmark. (In Italian.) *Allevatore* 5(6): 3. Feb. 6, 1949. 49 AL55

48216 PLAXICO, J. S. Toward better broiler profits. *Va. Farm Econ.* 118: 1252-1255. Feb. 1949. 275.29 V813

48217 PRESERVATION of egg. (In Swedish.) *Konserver* 7: 13-18. Feb. 1949. 389.8 K835

48218 RAIMO, H. F. Six years of shipping poultry and eggs into São Paulo by truck. (In Portuguese.) *Rev. dos Criadores* 20(2): 36-37. Feb. 1949. 43.8 R32

48219 REDDITT, J. R. Why and how Nebraska got into the broiler business. *U. S. Egg & Poultry Mag.* 55(5): 10-11, 28-29, 31. 286.85 Eg3

48220 RHODES, N. Reviewing averages. *For Sale, Want & Exch. B.* 11(12): 1. Apr. 1, 1949. 280.38 F74

Egg and poultry prices in Florida.

48221 RIEDENER, J. Es ist zu hoffen. *Geflügelhof* 12: 67-68. Feb. 4, 1949. 47.8 G276

Egg marketing and prices in Switzerland.

48222 ROY, J. B. Principes de base à considérer dans la préparation du programme avicole de 1949. *Avic. Québécois* 4(1): 5-6. Jan. 1949. 47.8 Av55

48223 SEARLS, E. N. Financial phases of the farm dressed chicken business in New York State. *N. Y. Agr. Col. Farm Econ.* 167: 4327-4331. Mar. 1949. 280.8 C812

48224 SEARLS, E. N. Should poultrymen market dressed chicken? *Northeast. Poultryman* 51: 18-19. Jan. 1949. 47.8 N44

48225 SEARLS, E. N. Suggestions for an efficient farm chicken dressing plant. *N. Y. Agr. Col. Farm. Econ.* 167: 4323-4326. Mar. 1949. 280.8 C812

48226 SEXAUER, R. M. Bonuses protect egg quality. *News Farmer Coops.* 15(12): 10, 21. Mar. 1949. 166.2 N47

Premium prices paid by the San Diego Cooperative Poultry Association.

48227 SHULTIS, A., and NEWLON, W. E. The chicken business in California. *Calif. Agr. Col. Ext. C.* 147, 20 p. Nov. 1948. 275.29 C12C

48228 SKELTON, S. G. Veterans are entering poultry farming. *Amer. Poultryman* 12(3): 8, 19. Feb. 1949. 47.8 So86

48229 SMEDT, P. DE. U. S. A. (In Flemish.) *Pluimvee* 1949: 457, 459. (To be cont.) Feb. 1949. 47.8 P72

Poultry industry in the United States.

48230 SMYTH, J. R. The hatching egg industry of Maine. *New England Homestead* 122(5): 40. Mar. 12, 1949. 6 N442

48231 STOCKBRIDGE, R. R. What is bloom? *North-east. Poultryman* 51: 10. Jan. 1949. 47.8 N44

Appearance of dressed poultry.

48232 THOMPSON, L. N. Egg Department [Poultry Producers of Central California] operations—1948. *Nulaid News* 26(12): 14-16. Apr. 1949. 47.8 N917

48233 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm production, disposition, cash receipts and gross income for chickens and eggs, 1947-1948, by E. S. Kimball, P. W. Smith, and R. F. Moore. Washington, 1949. 16 p. 1.9 Ec71Fpc

48234 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm production, disposition, cash receipts and gross income for turkeys, 1947-1948. Washington, 1949. 8 p. 1.942 D22T84

48235 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. You and the egg, by H. I. Miller and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

Quality and prices.

48236 VAITSMAN, J. How to preserve eggs. (In Portuguese.) *Campo* [Rio de Janeiro] 20: 17. Jan./Feb. 1949. 9.2 C15

48237 WAITE, W. C., and TAYLOR, F. R. How can we improve Minnesota egg quality? *Minn. Farm and Home Sci.* [Minn. Sta.] 6(2): 4-5. Feb. 1949. 100 M668

48238 WARREN, C. C. A good year ahead; alert poultrymen will consider these facts when making their production plans for the next year. *Everybody's Poultry Mag.* 53(11): 10-13. Dec. 1948. 47.8 F213P

48239 WORCESTER, P. F. Keep an eye on Georgia's broiler industry. *Everybody's Poultry Mag.* 53(11): 5, 24-27. Dec. 1948. 47.8 F213P

48240 ZANOTTI, M. The preservation of eggs. (In Italian.) *Allevatore* 4(5): 3. Jan. 30, 1949. 49 AL55

## RUBBER AND RUBBER SUBSTITUTES

48241 ALTHUISIUS, F. Sodium fluoride as coagulant in rubber preparation. (In Dutch.) *Bergcultures* 18: 99, 101. Mar. 1, 1949. 22.5 B45

48242 BALL, J. M., and RANDALL, R. L. The effect of whole tire reclaimed rubber on the accelerated aging of natural rubber and GR-S. *Rubber Age* 64: 718-722. Mar. 1949. 305.8 R82

48243 BONNER, J., and ARREGUIN, B. The biochemistry of rubber formation in the guayule. I. Rubber formation in seedlings. *Arch. Biochem.* 21: 109-124. Ref. Mar. 1949. 381 Ar2

48244 BRAAK, H. R. Centralization the remedy of the rubber industry. (In Dutch.) *Bergcultures* 18: 86-89, 91, 93, 95, 97, 99. Mar. 1, 1949. 22.5 B45

48245 BROCK, L. W., SWART, G. H., and OSBERG, E. V. Advances in rubber, 1947-1948. III-IV. *India Rubber World* 119: 725-726, 730; 120: 70-72. Ref. Mar.-Apr. 1949. 305.8 In2

48246 COUPAL, L. Quelques plantes utiles. *Foyer Rur.* [Montreal] 8(7): 7. Apr. 1949. 7 F83

Chiefly on latex-producing plants.

48247 DINSMORE, R. P. Situation du caoutchouc synthétique. *Rev. Gén. du Caoutchouc* 26: 251-252. Apr. 1949. 305.8 R32

48248 GOSSOT, J. Le collage du caoutchouc aux métaux à l'aide de nouveaux dérivés chimiques du caoutchouc. *Rev. Gén. du Caoutchouc* 26: 273-278. Apr. 1949. 305.8 R32

English summary, p. 286.

48249 LITCHFIELD, P. W. Saved: \$2,000,000,000; practical benefits of rubber price stability. *Goodyear Tire & Rubber Co. Notes on America's Rubber Indus.* (n. s.) 10, 3 p. Feb. 1949. 305.9 G63N

48250 LUMSDALE, R. A., and SCHERRER, W. The development of a rubber market in Indonesia. (In Dutch.) *Bergcultures* 18: 46-51. Feb. 1, 1949. 22.5 B45

48251 MALAYA. DEPT. OF STATISTICS. Rubber statistics handbook, 1946; acreage, production, imports, exports and consumption (corrected up to 31st December, 1946). 30 p. 1948. 269.6 S83

48252 MARTIN D'AIGUEPERSE, J. Les premiers pas de l'industrie du caoutchouc en France. *Rev. Gén. du Caoutchouc* 26: 241-245. Apr. 1949. 305.8 R32

English summary, p. 286.



- 48253 MAST, W. C., and FISHER, C. H. Preparation and vulcanization of unsaturated acrylic elastomers. II. India Rubber World 119: 727-730. Mar. 1949. 305.8 In2
- 48254 MULLINS, L. Permanent set in vulcanized rubber. India Rubber World 120: 63-66. Apr. 1949. 305.8 In2
- 48255 NICO, L. L'effort de l'industrie du caoutchouc depuis la fin de la guerre. Rev. Gén. du Caoutchouc 26: 248-250. Apr. 1949. 305.8 R32
- 48256 STECHERT, D. G. Study of A.S.T.M. tentative stiffness test as applied to rubber. Amer. Soc. Testing Mater. B. 157: 61-65. Mar. 1949. 290.9 Am34B
- 48257 VAN GILS, G. E. The Hevea latex complex. Rubber Age 30: 16-17. Mar. 1949. 305.8 R824
- 48258 VERHAAR, G. The marking of rubber bales in bareback packing. (In Dutch.) Bergcultures 18: 61, 63. Feb. 1, 1949. 22.5 B45
- 48259 WILLIS, A. H. The mechanical properties of rubber. Rubber Age 30: 19-20, 22, 24. (To be cont.) Mar. 1949. 305.8 R824
- Also in Rubber Age & Synthetics 30(2): 58-60, 62. (To be cont.) Apr. 1949. 305.8 R824
- 48260 WILLSON, E. A., MILLER, J. R., and ROWE, E. H. Adsorption areas in the soap titration of latex for particle-size measurement. J. Phys. & Colloid Chem. 53: 357-374. Ref. Mar. 1949. 381 J822

## SEEDS

- 48261 BERGH, T. K. A method of seed cleaning. Amer. Nurseryman 89(8): 7-8. Apr. 15, 1949. 80 Am371
- 48262 CANADIAN SEED GROWERS' ASSOCIATION. Annual report, 1947/48. Ottawa, 1948. 79 p. 61.9 C16
- 48263 CANADIAN SEED GROWERS' ASSOCIATION. Regulations for the production of registered seed. Canad. Seed Growers' Assoc. C. 6, rev., 43 p. Feb. 1949. 61.9 C16C
- 48264 COLLINS, J. H. Coated seeds—will they cut costs? West. Grower & Shipper 20(4): 9, 39, 42-44, 46. Mar. 1949. 280.38 W52
- For vegetables.
- 48265 COPELAND, O. B. A thousand-ton hobby. Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(4): 17. Apr. 1949. 6 P945G
- Cleaning and treating seeds.
- 48266 EIFRIG, H. Die probeentnahme bei saatgut. Landw. Wchnbl. f. Westfalen u. Lippe 106: 152. Feb. 26, 1949. 18 L2346
- 48267 HAHNE. Wie steht es mit dem saathafer? Landw. Wchnbl. f. Westfalen u. Lippe 106: 149. Feb. 26, 1949. 18 L2346
- 48268 HÖHNE. Bessere versorgungslage bei klee- und grassaaten. Landw. Wchnbl. f. Westfalen u. Lippe 106: 155. Feb. 26, 1949. 18 L2346
- 48269 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. ENTOMOLOGY AND BOTANY DEPT. Seed inspection in Kentucky, 1947-48. Ky. Agr. Expt. Sta. Regulat. B. 68, 44 p. Dec. 1948. 100 K41
- 48270 KONING, H. Buying grass and clover seeds is a matter of reliability. (In Dutch.) Boer en Tuinder 3(109): 4. Feb. 5, 1949. 12 B632
- 48271 KRABBE, N. Quality of combined threshed seed. (In Danish.) Tidsskr. for Frøavl 37: 124-126. Mar. 10, 1949. 61.8 T43
- 48272 MACEACHRON, P. Seed is moving. G. L. F. Week. Serv. Sched. 13(40): 1. Apr. 4, 1949. 280.28 G113W
- 48273 MCKINNEY, J. What are good seeds? Prog. Farmer, Miss.-Ark.-La. Ed. 64(4): 24. Apr. 1949. 6 So81
- 48274 MASSACHUSETTS. SEED CONTROL SERV. Seed inspection. Mass. Agr. Expt. Sta. Control Ser. B. 139, 36 p. Nov. 1948. 100 M38H
- 48275 MICHIGAN. DEPT. OF AGRICULTURE. Michigan seed bulletin, 1948 season. Lansing, 1949? 18 p. 64.9 M58
- 48276 NEDERLANDSCHE ALGEMEENE KEURINGS-DIENST VOOR LANDBOUWZADEN EN AARDAPPEL-POOTGOED. 16th annual report of the Netherlands General Inspection Service for Agricultural Seeds and Seed Potatoes. (In Dutch.) Wageningen, 1948. 95 p. 12 N284
- 48277 NORWAY. STATENS LANDBRUKSKJEMISKE KONTROLLSTASJON OG FRØKONTROLL. Report of the State Agricultural Chemical Control Station and Seed Control. (In Norwegian.) Oslo, 1949. 15 p. 385 T75
- 48278 POPOV, N. F. Sorting seeds according to moisture content and ripeness. (In Russian.) Selek. i Semen. 15(10): 59-62. Oct. 1948. 61.9 Se5
- 48279 THOLSTORF, N. The seed production situation. (In Danish.) Dansk Frøavl 32: 53-59. Mar. 1, 1949. 61.8 D23
- 48280 TOBEY, E. R., and others. Commercial agricultural seeds, 1948; fungicides and insecticides, 1948. Maine. Agr. Expt. Sta. Off. Insp. 210, 30 p. Dec. 1948. 100 M28S
- F. Hyland, J. M. Goodine, and A. M. G. Soule, joint authors.
- 48281 VENTUROLI, G. Seed production. II. (In Italian.) Gior. di Agr. 59: 75. Mar. 6, 1949. 16 R1G Italy.
- 48282 VENTUROLI, G. Seed production sector [Italy]. (In Italian.) Gior. di Agr. 59: 67. Feb. 27, 1949. 16 R1G

## SUGAR AND SIRUPS

- 48283 ALLEN, L. A., EDEN, G. E., and COOPER, A. H. Microbiological problems in the manufacture of beet sugar. (Abs.) Internatl. Cong. Microbiol. Rpt. Proc. (1947) 4: 531-532. 1949. 442.9 In83
- 48284 ALMEIDA, D. Observations made in a sugar-cane zone in Bahia. (In Portuguese.) Brasil Açucareiro 32: 482. Nov. 1948. 65.8 B73
- 48285 AMERICAN BAKERS ASSOCIATION. Statement on behalf of the major sugar using industries... before the Production and Marketing Administration... Hearing, Nov. 15, 1948 on estimate of domestic sugar requirements for the calendar year 1949. n. p., 1948? 9 p. 286.365 Am3
- 48286 AMERICAN SUGAR REFINING COMPANY. Annual report, 1948. New York, 1949. 27 p. 65.9 Am3
- 48287 BERNHARDT, J. The sugar industry and the Federal Government; a thirty year record (1917-47). Washington, Sugar Statis. Serv., 1948. 344 p. 286.365 B45
- 48288 BERTUZZI, A. The problem of cheap sugar; is it advantageous to cultivate beets in Italy? (In Italian.) Not. Enol. ed Aliment. 5: 195-196. Oct. 1948. 16 N847
- 48289 BOURG, C. J. Parity situation on sugar crops. Mtn. States Beet Grower 12(3): 7. Mar. 1949. 280.28 M86
- 48290 BRIEGHEL-MULLER, A., and BRUNICKE-OLSEN, H. The physical chemistry of the second carbonation in the beet sugar industry. Sugar 44(4): 36-39. Apr. 1949. 65.8 F11
- 48291 CANADA. BUR. OF STATISTICS. AGRICULTURE DIV. Summary of sugar reports for calendar years, 1947 and 1948. Feb. 25, 1949. 6 p. 65.8 C16
- 48292 CILLIE, G. G., and RAPSON, W. S. Cane molasses fermentations. I. So. African Indus. Chem. 3: 37-38. Feb. 1949. 385 So8
- 48293 CONNELL, C. B. B. Primary and secondary screening of mixed juice at the St. Kitts (Basseterre) Sugar Factory Ltd. Rev. Azucarera 2: 81. 1948. 65.8 R325
- 48294 COSTA FILHO, M. The sugar industry in Brazil in the light of documents. I-II. (In Portuguese.) Brasil Açucareiro 32: 472-480, 617-626. Nov.-Dec. 1948. 65.8 B73
- 48295 FERNANDEZ GARCIA, R., and others. New products from sugarcane. Rev. Azucarera 2: 102-107. Ref. 1948. 65.8 R325
- C. Vincenty, L. A. Colon, Jr., and B. Colon Fortis, joint authors.
- 48296 FOCK, J. D. Clarification efficiency and analyses of boiling house efficiency. Indian Sugar 11: 210-213. Nov. 1948. 65.8 In25
- 48297 FRANCE. DIRECTION DE LA DOCUMENTATION. La culture de la betterave industrielle et l'industrie sucrière en France. France. Dir. de la Doc. Notes Doc. et Etudes 1069, 24 p. Feb. 3, 1949. 280.9 F843
- 48298 GILG, F. X. Utilizing bagasse as fuel. Internatl. Sugar J. 51: 105-108. Apr. 1949. 65.8 In8



- 48299 GOMEZ, J. J. Control y eficiencia técnica de las factorías azucareras. *Rev. Azucarera* 2: 27-29. 1948. 65.8 R325
- 48300 HOCKETT, R. C. The progress of sugar research. *Rev. Azucarera* 2: 39-45. 1948. 65.8 R325  
Work of the Sugar Research Foundation.
- 48301 INTERNATIONAL SUGAR COUNCIL. Pocket sugar year book 1948. 1948. 80 p. 286.3659 In8P  
Statistics.
- 48302 KLOPPENBURG, C. A. Sugar recovery from molasses. *Indian Sugar* 11: 185-187. Oct. 1948. 65.8 In25
- 48303 KOENRAADT, J. Expansion of sugar beet culture in North Brabant. (In Dutch.) *Boer en Tuinder* 3(109): 6. Feb. 5, 1949. 12 B632
- 48304 LAUMONT, P. La production de l'alcool industriel en Algérie. *Rev. Agr. de l'Afrique du Nord* 47: 16-19. Jan. 14, 1949. 80 R326  
From sugar.
- 48305 LESPÉRANCE, R. La betterave à sucre au "royaume du tabac." *Terre de Chez Nous* 21(5A, i. e. 27): 28, 21. Mar. 30, 1949. 7 T27  
Canada.
- 48306 LESTER, J. Are you growing beets this year? *Mont. Farmer-Stockman* 36(14): 1, 20. Mar. 15, 1949. 6 M764  
Sugar beet situation in Montana.
- 48307 LLOYD, A. A. A survey of sugar cane production conditions and methods in the South African sugar industry. *So. African Sugar J.* 33: 81, 83, 85, 87, 89. Feb. 1949. 65.8 So8
- 48308 LOPEZ VIDELA, R. Proyecto azucarero "La Esperanza." *Campo [La Paz]* 3(21): 9-11. Jan. 1949. 9.1 C15  
Bolivia.
- 48309 MAGALLÓN DE LA VEGA, A. Construyendo la crisis: el azúcar. *Rev. de Econ.* 12: 136-138. Apr. 15, 1949. 280.8 R3293
- 48310 MAURI, G. Sugar sorghum and the marmalade industry. (In Italian.) *Alimenti* 5: 8-9. Jan. 1949. 389.8 AL44
- 48311 MOLITOR, J. B. Industrial by-products from sugarcane. *Sugar J.* 11(10): 3-5, 24. Mar. 1949. 65.8 Su391
- 48312 OTHMER, D. F., and LULEY, A. H. Refining sugar by solvent. *Food [London]* 18: 81-83. Mar. 1949. 389.8 F738
- 48313 OWEN, W. L. Some fermentation characteristics of deteriorated cane blackstraps. *Internatl. Sugar J.* 51: 109-111. (Concl.) Apr. 1949. 65.8 In8
- 48314 OXFORD, A. E. Cane molasses fermentations. *II. So. African Indus. Chem.* 3: 50-51. Mar. 1949. 385 So8
- 48315 PECHNIK, E., CHAVES, J. M., and GUIMARAES, L. R. Benedict technique for determination of reducers in sugar industry control. (In Portuguese.) *U. do Brasil. Inst. de Nutr. Trab. e Pesquisas* 1: 207-212. 1948. 389.9 R47
- 48316 RAMÍREZ SILVA, F. J. La bentonita coloidal como agente de clarificación en la manufactura de azúcar. *Rev. Azucarera* 2: 17-22, 51, 55, 59. 1948. 65.8 R325
- 48317 RAMOS NÚÑEZ, G. Breve historia moderna de la caña de azúcar en Colombia. *Palmira. Estac. Agr. Expt. Notas Agron.* 2(1), 8 p. Jan. 20, 1949. 102.5 P18N  
English summary.
- 48318 REVIEW of the sugar industry of India for the year ending 31st October, 1946. *Indian Trade J., sup.* 22 p. Feb. 3, 1949. 286.8 In24
- 48319 ROBEQUAIN, C. Le sucre dans l'Union Française. *Ann. de Géog.* 57: 322-340. Oct./Dec. 1948. 473 An75
- 48320 ROJAS A., A. Censo de trapiches de Costa Rica. *Suelo Tico* 1: 395-405. Dec. 1948. 8 Su2
- 48321 SALES, A. Sugar production plan. (In Portuguese.) *Pernambuco. Dept. de Asst. às Coop. Rev.* 11: 120-123. May/June 1948. 280.29 P42
- 48322 SAMPALIO, S. D. C. Considerations on sugarcane and its use. (In Portuguese.) *Soc. Rural Bras. Rev.* 28: 28-29. Jan. 1948. 9.2 B733
- 48323 SANCHEZ DUARTE, J. El incremento del consumo mundial de azúcar y el auge de la producción continental. *Aliment. Nac.* 6(134): 10-12. Dec. 25, 1948. 389.8 AL42
- 48324 SANTIESTEBAN, T. Colonato: resumen de sus últimos problemas. *Rev. Nac. de Ciencias Polít.-Econ.-Sociales* 8(88): 17. Mar. 1949. 280.8 R3295  
Cuban sugar industry.
- 48325 SATTTLER, L., and ZERBAN, F. W. Unfermentable reducing substances in molasses. *Rev. Azucarera* 2: 87-100, 114. Ref. 1948. 65.8 R325
- 48326 SCHOENFELD, S. Vaivenes del azúcar: se repetirá la historia? *Rev. Nac. de Ciencias Polít.-Econ.-Sociales* 8(88): 11-13. Mar. 1949. 280.8 R3295  
Cuba.
- 48327 SHIELDS, R. H., and BOYD, H. B. The administration of the Sugar Act in 1948. *Sugar* 44(4): 25-30, 33. Ref. Apr. 1949. 65.8 F11
- 48328 SUGAR RESEARCH FOUNDATION, INC. Fifth report, 1948; Science looks at sugar. New York, 1948. 23 p. 65.9 Su34Sc
- 48329 SUGAR TECHNOLOGISTS ASSOCIATION OF INDIA. Yearbook and directory, 1947/48. Lucknow, 1948. 109 p. 65.9 Su33
- 48330 THOMPSON, H. A., JR. Flow measurement in sugar factories. *Sugar J.* 11(10): 18-19. Mar. 1949. 65.8 Su391
- 48331 U. S. BUR. OF AGRICULTURAL ECONOMICS. The world sugar situation. Washington, 1949. 23 p. 1.9 Ec752Ws
- 48332 VÁRZEA, A. In the high plains of Paraíba. (In Portuguese.) *Brasil Açucareiro* 32: 502-505. Nov. 1948. 65.8 B73  
Sugar industry.
- 48333 VERCILLO, A. Analysis of sugar mixtures. (In Italian.) *Ann. di Chim. Appl.* 39: 72-76. Jan. 1949. 385 An7
- 48334 VIVEIROS, J. DE. The Pernambuco sugar industry. (In Portuguese.) *Brasil Açucareiro* 32: 499-502, 629-632. (Cont.) Nov.-Dec. 1948. 65.8 B73
- 48335 VOGEL, F. Perspectivas azucareras europeas. *Cuba Econ. y Financ.* 24(276): 27-28. Mar. 1949. 286.8 C892
- 48336 WILLCOX, O. W. Sugar can win the race against world hunger. *Sugar* 44(4): 31-33. Apr. 1949. 65.8 F11
- 48337 ZERBAN, F. W., HUGHES, W. J., and NYGREN, C. A. Determination of reducing sugars. *Rev. Azucarera* 2: 47, 49, 51. 1948. 65.8 R325

## TOBACCO

- 48338 ALEXANDER, M. R. Lumberton, North Carolina bright spot, remains Robeson's first border mart. *Tobacco [New York]* 128(13): 45, 47. Mar. 31, 1949. 286.89 T552
- 48339 AUSTIN, T. N. Burley development at Greenville, Tenn., for cigarette type of this fine tobacco. *Tobacco [New York]* 128(13): 133, 142. Mar. 31, 1949. 286.89 T552
- 48340 BENNETT, R. R., and HAWKS, S. N. Curing bright leaf tobacco. *N. C. Agr. Col. Ext. C.* 332, 11 p. Jan. 1949. 275.29 N811
- 48341 BOSWELL, A. B. Still the leader of all bright markets is the famous Wilson in the Dixie Belt. *Tobacco [New York]* 128(13): 23, 25, 27. Mar. 31, 1949. 286.89 T552
- 48342 CAVALLINI, G. A visit to the Swedish Monopoly. (In Italian.) *Tobacco* 52: 355-367. Dec. 1948. 65.8 T115
- 48343 COOK, F. T. What does South Africa really produce in total leaf, also of various types? *Tobacco [New York]* 128(13): 66. Mar. 31, 1949. 286.89 T552
- 48344 DENNIS, H. A. Predict another good season in South for flue-cured crop, here and abroad, too. *Tobacco [New York]* 128(13): 65, 139-141. Mar. 31, 1949. 286.89 T552
- 48345 DIXON, W. T. From 1858 the ancient town of Durham produced tobacco in famous brands. *Tobacco [New York]* 128(13): 115, 117, 119-120. Mar. 31, 1949. 286.89 T552
- 48346 FOSTER, S. A. Hampton Roads continues expansion as greatest tobacco port in the world. *Tobacco [New York]* 128(13): 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93. Mar. 31, 1949. 286.89 T552
- 48347 GIRAGAMA, A. The tobacco industry in Ceylon. *Ceylon Trade J.* 14: 1-9. Jan. 1949. 286.8 C333
- 48348 GREENE, R. S. Great Dixie market is in North Carolina at Farmville, where bright leaf is sold. *Tobacco [New York]* 128(13): 97, 153-154. Mar. 31, 1949. 286.89 T552
- 48349 HARRISON, W. M. Price of bright must be re-adjusted to level of the export demand. *Tobacco [New York]* 128(13): 21, 144, 150. Mar. 31, 1949. 286.89 T552



- 48350 HOEVEN, W. VAN DER. A few remarks on the basis for statistics. (In Dutch.) *Tabaksplant* 76 (3746, 2d leaf): 1. Mar. 22, 1949. 286.89 T114  
Tobacco consumption.
- 48351 JOHNSTON, E. G., JR. World's largest four buyers' market is Rocky Mount, North Carolina. *Tobacco* [New York] 128(13): 105, 107. Mar. 31, 1949. 286.89 T552
- 48352 KELLEY, R. S. Leaf and manufacturing center in South is Reidsville tobacco mart in Carolina. *Tobacco* [New York] 128(13): 127, 129. Mar. 31, 1949. 286.89 T552
- 48353 LAUMONT, P. L'organisation coopérative de la production du tabac à fumer en Kabylie. *Acad. d'Agr. de France* 35: 70-71. Jan. 19/26, 1949. 14 P215Bc  
Also in *Rev. Internatl. des Tabacs* 24: 61, 63-64. Mar. 1949. 69.8 R324
- 48354 LUTHER, L. W. 300-year crop in Maryland advancing as cigarettes demand this leaf type. *Tobacco* [New York] 128(13): 136. Mar. 31, 1949. 286.89 T552
- 48355 MCMURTHA, K. T. Lake City, South Carolina, important center of Pee Dee territory for flue-cured tobacco. *Tobacco* [New York] 128(13): 137, 150. Mar. 31, 1949. 286.89 T552
- 48356 MIEGE, E. Le séchage du tabac blond par les rayons infrarouges. *Inform. Maroc* 414: 1, 3. Dec. 18, 1948. 281.8 In3
- 48357 MOSER, E. H. Progress and expansion feature Wendell [North Carolina] as the bright market advancing rapidly. *Tobacco* [New York] 128(13): 61, 63, 150. Mar. 31, 1949. 286.89 T552
- 48358 NEW ZEALAND. TOBACCO BD. Twelfth annual report and statement of accounts for the period 1st August, 1947, to 31st July, 1948. 1948. 7 p. 281.3669 N48
- 48359 PARAMORE, W. H. Fuquay-Varina market moving ahead; 12 warehouses offer planter facilities. *Tobacco* [New York] 128(13): 57-58. Mar. 31, 1949. 286.89 T552
- 48360 PERRIN, G. Au moment de mettre le "gris" en vente libre, la régie des tabacs a demandé à l'étude du marché de chiffrer la demande probable; comment l'enquête a été faite (sur Paris seulement); ses résultats; comparaison entre ventes prévues et ventes réelles. *Rev. Internatl. des Tabacs* 24: 67, 71. Mar. 1949. 69.8 R324
- 48361 PROVOST, A. Le nouveau séchoir pour tabacs en feuilles de la Société Vautier Frères à Yverdon (Suisse). *Rev. Internatl. des Tabacs* 24: 55-60. Mar. 1949. 69.8 R324
- 48362 STANDARD & POOR. Tobacco. Standard & Poor's Corp. Indus. Surveys T4-B, 16 p. Mar. 24, 1949. 284.9 St22T
- 48363 TEN EYCK, M. D. North Carolina proud of Smithfield mart where sales were started in year 1770. *Tobacco* [New York] 128(13): 123, 125. Mar. 31, 1949. 286.89 T552
- 48364 TETLEY, G. Sunshine breaks through clouds of leaf as domestic and foreign situation clears. *Tobacco* [New York] 128(13): 39, 41-43, 152-153. Mar. 31, 1949. 286.89 T552
- 48365 THOMAS, E. G. Early season seen in Georgia bright; first markets to open the year's sales. *Tobacco* [New York] 128(13): 121. Mar. 31, 1949. 286.89 T552
- 48366 TURCOT, C. Quelques aspects économiques du tabac jaune. *B. des Agr.* 45(3): 48-50. Mar. 1949. 7 B872  
Canada.
- 48367 U. S. PRODUCTION AND MARKETING ADMIN. Regulations of the Secretary of Agriculture under the Tobacco Inspection Act of August 23, 1935 (49 Stat., 731) Amended regulations Dec. 29, 1948. Washington, 1949. 13 p. 1.956 A2R262
- 48368 WHEDBEE, W. L. Greenville [North Carolina]-producers' and planters' best market in the flue-cured leaf area. *Tobacco* [New York] 128(13): 33, 35-37, 138. Mar. 31, 1949. 286.89 T552
- 48369 WILLIAMS, J. R. That foremost old belt tobacco market of Winston-Salem a big bright center. *Tobacco* [New York] 128(13): 51, 53, 55. Mar. 31, 1949. 286.89 T552
- 48370 WITHERINGTON, R. S. Fifty-five years of service at Kinston [North Carolina] makes market foremost in Eastern Belt. *Tobacco* [New York] 128(13): 99, 101-102. Mar. 31, 1949. 286.89 T552
- 48371 WU, K. Y. Marketing of tobacco in Shawan. (In Chinese.) *Monthly Farmers' Bank China* 9(8): 47-53. Aug. 1948. 281.9 F225M

## MISCELLANEOUS PRODUCTS

- 48372 ALLEGRI, R. Influence of the presence of gallic acid in the quantitative determination of pyrocatechol tannins according to the Stiasny method. (In Italian.) *Italy. Staz. Sper. per l'Indus. delle Pelli e delle Mater. Concianti. B. Uffic.* 25: 4-7. Feb. 1949. 303.8 It1
- 48373 BÖHM, F. J. Gedanken zum blumenmarktproblem. *Gartenbauwirtschaft* [Wien] 1949(2): 8. Feb. 15, 1949. 80 G1936
- 48374 CAVE, F. C. The problem of marketing seedlings. *Canad. Gladiolus Soc. Ann.* 1949: 42-43. 82 C164Q
- 48375 CHERKASOV, N. G. Continuous operation in the processing of far-eastern salmon. (In Russian.) *Rybnoe Khoz.* 24(10): 12-16. Oct. 1948. 414.8 R962
- 48376 DE JONG, A. W. K. A complete extraction of the bases and the acid esters of l-nor-ecgonine from coca leaves. II. *Rec. des Trav. Chim. des Pays-Bas* 68: 138-140. Feb. 1949. 385 R24
- 48377 HOED, F. L'activité de l'Institut National Belge du Houblon. *Petit J. du Brasseur* 57: 179-180, 201-203. (Concl.) Mar. 4, 11, 1949. 390.8 P44
- 48378 KUBELKA, V., and GLOZIC, B. A new modification of the Loewenthal method for the estimation of tannins. *Tech. Hlídka Koželužská* 24: 78-82. Mar. 15, 1949. 303.8 T22  
English summary.
- 48379 LOPEZ CAPONT, F. Notas sobre el abombado y corrosión en las conservas de pescado. *Indus. Conserva* 14(115): 16-17. Dec. 1948. 389.8 In24
- 48380 MCCLESKEY, C. S., and BOYD, F. A., JR. The longevity of the coliform bacteria and enterococci in iced crabmeat. *J. Milk & Food Technol.* 12: 108-109. Mar./Apr. 1949. 44.8 J824
- 48381 MAISONNEUVE, J. Le séchage des sardines par rayonnement. *Rev. Internatl. des Prod. Colon.* 24: 44, 46. Feb. 1949. 286.8 R326
- 48382 NOBILI, E. New views on certain properties of synthetic tannins. (In Italian.) *Italy. Staz. Sper. per l'Indus. delle Pelli e delle Mater. Concianti. B. Uffic.* 25: 19-20. Feb. 1949. 303.8 It1
- 48383 POTTINGER, S. R., KERR, R. G., and LANHAM, W. B., JR. Effect of refreezing on quality of sea trout fillets. *U. S. Fish and Wildlife Serv. Com. Fisheries Rev.* 11: 14-16. Jan. 1949. 157.5 F532
- 48384 REMPT, J. D. Hereford: the land of hop and apples. (In Dutch.) *Groenten en Fruit* 4: 577-578. Mar. 10, 1949. 80 G89
- 48385 SCHOLTE, H. Flower culture and trade in Canada. (In Dutch.) *Bloemisterij* 23(51): 9. Dec. 17, 1948. 80 B624
- 48386 SIMONCINI, A. Viscosity of tanning extracts. (In Italian.) *Italy. Staz. Sper. per l'Indus. delle Pelli e delle Mater. Concianti. B. Uffic.* 25: 8-18. Feb. 1949. 303.8 It1
- 48387 VANDENDAEL, P. Sale of flowers during the year 1948. (In Flemish.) *Tuinbouwberichten* 13: 25-26, 40-41. Feb. 15-Mar. 15, 1949. 80 T817  
Belgium.
- 48388 VERMEULEN, C. Les analyses du houblon. *Petit J. du Brasseur* 57: 114. Feb. 11, 1949. 390.8 P44
- 48389 YAMASAKI, S. Characteristics of the Japanese aromatics industry. (In Italian.) *Riv. Ital. Essenze Profumi, Piante Off., Olii Veg., Saponi* 31: 54-55. Feb. 15, 1949. 308.8 R52

## AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

References on farm structures and rural housing are classified with Agricultural Engineering.

## GENERAL

- 48390 BALANDIER, G. Economy of the Kakossa, Kabak and Matakong Islands (Lower Guinea). *Farm Forest* 9: 1-5. Jan./June 1948. 24 F226  
Text also in French.
- 48391 BAQUE, Z. En Gascogne gersoise, des siècles d'histoire économique. *Terre d'Occ* 31: 7-12, 47-52. (Cont.) Jan.-Feb. 1949. 14 Ar5
- 48392 CONGRESS OF INDUSTRIAL ORGANIZATIONS. A radio forum... "Farmers and labor, conflict or cooperation." Washington, 1948. 11 p. (Amer. United, v. 4, No. 49) 280.12 C764



48393 GREAT BRITAIN. COMMONWEALTH ECONOMIC COMMITTEE. Report covering the period 1 April 1947 to 31 March 1948. 1949. 8 p. 280.39 G794A

48394 MOURA, V. Partial plan of economic development for Goiaz. (In Portuguese.) Pernambuco. Dept. de Asst. às Coop. Rev. 11: 15-22. Jan./Feb. 1948. 280.29 P42

48395 ORGANISATION FOR EUROPEAN ECONOMIC CO-OPERATION. Interim report on the European Recovery Programme. Paris, 1949. 2 v. 280.17 Or3

48396 PELLETIER, J. R. Les périls de notre prospérité. Canad. Ayrshire Rev. 29: 353. Feb. 1949. 43.8 Ay72

Possibility of a depression.

48397 PESCE, G. Economic problems on the first plane [Italy]. (In Italian.) Coop. e Agr. 31(13): 1. Apr. 2, 1949. 16 C78

48398 PFISTERER, E. Der berufliche und wirtschaftliche Zusammenschluss in der Landwirtschaft. Württemb. Wchnbl. f. Landw. 116(1): 4-5. Jan. 1, 1949. 18 W96

48399 RAMAKRISHNAN, K. C. Agricultural economics; paucity of primary data. Agr. Econ. 1: 20-21. Nov. 1948. 281.8 Ag832

India.

48400 SKOVGAARD, K. Future economic problems with special reference to Danish agriculture. (In Danish.) Tidsskr. for Landøkonomi 1949: 65-82. Feb. 1949. 11 T43

48401 STOCKBURGER. Das zeitalter der verwilderten wirtschaftsordnung. Württemb. Wchnbl. f. Landw. 116(1): 2-3. Jan. 1, 1949. 18 W96

48402 U. S. CONGRESS. HOUSE. COMMITTEE ON FOREIGN AFFAIRS. Extension of European Recovery Program. Hearings, 81st Cong., 1st sess. on H. R. 2362. Pt. 1-2. Washington, 1949. 891 p.

Pt. 1, Feb. 8-11, 15-18, 1949; pt. 2, Feb. 21-24, Mar. 11 and 14, 1949.

Pt. 2 is on H. R. 2362 and H. R. 3748.

48403 U. S. OFF. OF DOMESTIC COMMERCE. AREA DEVELOPMENT DIV. Selected data on economic trends. United States. Washington, 1949. 2 p. 157.55 Se47

Includes agriculture.

48404 U. S. TARIFF COMMISSION. Economic controls and commercial policy in Argentina. Washington, 1948. 48 p. 173 T17Eca

Includes agriculture and trade.

48405 U. S. TARIFF COMMISSION. Economic controls and commercial policy in Brazil. Washington, 1948. 59 p. 173 T17Ecb

Includes agriculture and trade.

48406 U. S. TARIFF COMMISSION. Economic controls and commercial policy in Peru. Washington, 1948. 28 p. 173 T17Ecp

Includes agriculture and trade.

#### AGRICULTURAL FINANCE

48407 CLAUSAGER, A. Investment and capital conditions in agriculture. (In Danish.) Tolvmandsbladet 21: 60-62. Feb. 1949. 11 T58

48408 HURD, T. N. Old age plans and programs of farmers, 96 farms, township of Dryden, Tompkins County, New York, 1946. N. Y. Agr. Col. A. E. 698, 47 p. Apr. 1949. 281.9 C81

Includes financial status and insurance.

48409 LOM, F. Capital investments in agriculture. (In Czech.) Zeměděl. Úst. Účet.-Sprav. ČSR. Zpráv. 11: 66-85. 1948. 266.8 C993

Summary in Russian, French, and English.

48410 MILLER, L. F. Farmers' assets outside their business. J. Farm Econ. 31: 143-153. Feb. 1949. 280.8 J822

48411 RENAUD, V. Le budget de 1949 et la réforme fiscale. Acclimatation 76: 13. (To be cont.) Jan. 15, 1949. 14 Ac2

France.

48412 SANTI JUAREZ, T. La desvalorización del dinero y las crisis de precios en los medios rurales. Agricultura [Madrid] 18: 6-9. Jan. 1949. 15 Ag84

48413 STRUNZ, H. Bundesschuldverschreibungen nicht verkaufen! Allg. Bauern-Ztg. 4(8): 5. Feb. 19, 1949. 281.8 AL5

Austria.

48414 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm income, farm debts and balance sheet. Washington, 1949. 5 p. 1.941 F8F224

48415 U. S. TREASURY DEPT. SAVING BONDS DIV. Financial security for farm and ranch families. Washington, 1948. 6 p.-folder. 151.48 F49F

48416 WALL, N. J., and GROVE, E. W. Farm operators net less in '48; assets rise, but at slower rate. Agr. Situation 33(3): 10-11. Mar. 1949. 1 Ec7Ag

#### Credit

48417 AMER, A. L. Agricultural and co-operative credit in Egypt. Egypte Contemp. 245: 345-348. Mar. 1948. 270 Eg95

48418 AMERICAN BANKERS' ASSOCIATION. AGRICULTURAL COMMISSION. Farm real estate financing. New York, 1949. 44 p. 284.2 Am3Fa

48419 BARAJAS, E. Cooperación y crédito; crédito agrícola. Mex. Dir. de Econ. Rur. B. Mens. 265: 448-452. June 1948. 254.5 Ag83

48420 DUGGAN, I. V. A banking lesson in private credit. Co-op Grain Q. 7(1): 59-62. Spring 1949. 280.28 C7898

48421 EASTWOOD, R. A. Mortgageability of owner-operated dairy farms, land class III in central and western New York. N. Y. Agr. Col. Farm Econ. 167: 4311-4312. Mar. 1949. 280.8 C812

48422 FABRI, V. The new Czechoslovak Farm Credit Act. (In Russian.) Interagra 2: 373-380. 1948. 28 In825

English summary.

48423 FONDARD, L. Le crédit agricole. Bouches du Rhone Agr. 22(998): 5; (999): 1. Mar. 15-Apr. 1, 1949. 14 B662

48424 GARRIGUES DIAZ CAÑABATE, J. L. El crédito agrícola: intervención de las hermandades. Congreso Sindical de la Tierra. Temas Econ. 7, 16 p. 1948. 281.176 C764T

Spain.

48425 GRUEN, F. H. Rural credit. Agr. Gaz. N. S. Wales 60: 14-16. Jan. 1949. 23 N472

48426 HEIM, M. Eigenbetriebliche landmaschinenfinanzierung. Allgäuer Bauernbl. 17: 49. Jan. 28, 1949. 18 AL53

48427 JAKHADE, V. M. Agricultural indebtedness in Pandharpur and Sangola Talukas. I-II. Reserve Bank India. B. 3: 6-12, 89-106. Jan.-Feb. 1949. 284.9 R31B

48428 KLINGE, G. Crédito agrícola estatal. Vida Agr. [Lima] 26: 105-107, 109-113. Feb. 1949. 9.8 V66

48429 LEMOS, C. Agricultural credit. (In Portuguese.) Pernambuco. Dept. de Asst. às Coop. Rev. 11: 148-150. July/Aug. 1948. 280.29 P42

48430 LUZ FILHO, F. Agricultural credit. (In Portuguese.) Soc. Coop. da Indús. Pecuária do Pará. B. 16(71): 1. Oct./Dec. 1948. 280.2409 Sol

48431 MUDALIAR, A. P. Rural credit co-operation in the Madras Province. Madras J. Co-op. 40: 287-296. Jan. 1949. 280.28 M26

48432 MURRAY, W. G. Federal legislation on farm credit. Iowa Law Rev. 34: 214-229. Jan. 1949. 19 Io9

48433 POWERS, F. P. Farm chattel mortgages. (Abs.) Minn. Bankers' Conf. [Proc.] 9: 38. 1948. 284.9 M664

48434 LES PRESTATIONS familiales agricoles. France. Inst. Natl. de la Statis. et des Études Écon. B. de la Statis. Gén. (Sup. Trimest.) 37: 28-36. Jan./Mar. 1949. 260 SI22

48435 RAO, K. S. Quick dispensation of production credit. Madras J. Co-op. 40: 297-309. Jan. 1949. 280.28 M26

48436 RURAL AND INDUSTRIES BANK OF WESTERN AUSTRALIA. Annual report and balance sheet for the year ended 30th September, 1948. 1948. 18 p. 284.29 R88

48437 SHOLZ, P. G. Poultry Producers Federal Credit Union. Nulaid News 26(12): 39. Apr. 1949. 47.8 N917

48438 STAUNING, A. The fruit grower law. (In Danish.) Gart.-Tid. 65: 137-138. Mar. 30, 1949. 80 G192

Government loans.

48439 STEWART, D. Crop and livestock loans. Ariz. Stockman 15: 14. Feb. 1949. 49 Ar4



- 48440 STORY, R. P. Let's look credit in the eye! East. States Coop. 25(3): 12-13. Mar. 1949. 280.28 Ea7
- 48441 SWANZEY, H. M. 6 agricultural problems facing bankers today. Northwest. Banker 54(740): 17, 50-52. Mar. 1949. 284.8 N81
- 48442 TREFZ, R. W. How installment loans can help a country bank's customers. Bank News 49(19): 15-17, 22. Apr. 15, 1949. 284.8 B224

48443 U. S. COMMISSION ON ORGANIZATION OF THE EXECUTIVE BRANCH OF THE GOVERNMENT. Federal business enterprises; a report to the Congress March 1949. 1949. 129 p. 173 Or3R

Farm credit enterprises, p. 34-42.

48444 U. S. COMMODITY CREDIT CORPORATION. C. C. C. wheat loans on crops harvested in 1938 to 1947. Washington? 1948? 9 p. 1.957 C734

48445 U. S. FARM CREDIT ADMIN. Revised rules and regulations for production credit associations organized under the Farm Credit Act of 1933. Washington? 1949. 9 p. 1.955 A2R32

48446 WENG, C. Y. An introduction to a symposium on the systems of agricultural credit in various countries. (In Chinese.) Monthly Farmers' Bank China 9(8): 1-3. Aug. 1948. 281.9 F225M

English summary.

#### Income

48447 BILKUR, S. National income of Turkey (and family expenses in country and towns); estimates (1927-1945), forecasts (1948-1952). Turkey. Off. Cent. de Statis. P. 289/127, 55 p. 1949. 269.9 St2

Includes agricultural income.

48448 MORIN, A. J. A note on bilateral monopoly, with special reference to seasonal agricultural labor. J. Farm Econ. 31: 101-115. Feb. 1949. 280.8 J822

48449 SHEPHERD, G. S. A self-financing farm income stabilizer. Farm Policy Forum 2(2): 53-56. Apr. 1949. 281.8 F7224

48450 ZETTERBERG, O. Farm cash income, expenses and net income year 1947. (In Swedish.) Sweden. Kommerskol. Jordbruksekonom. Uppgifter 11: 61-68. Mar. 1949. 257.3 J76

#### Inflation

48451 BEZANSON, A. Inflation and controls. Pennsylvania, 1774-1779. J. Econ. Hist. 1948(sup. 8): 1-20. 1948. 277.8 J822

48452 JESNESS, O. B. Inflation and the country banker. Minn. Bankers' Conf. [Proc.] 9: 1-4. 1948. 284.9 M664

#### Insurance

48453 ARTAUD, L. Assurances sociales agricoles. Bouches du Rhone Agr. 22(998): 14. Mar. 15, 1949. 14 B662

48454 BARBACETTO, A. The insurance of livestock "in malga." (In Italian.) Allevatore 5(4): 7. Jan. 23, 1949. 49 AL55

48455 BURGOS BOEZO, L. Seguros sociales en el campo. Congreso Sindical de la Tierra. Temas Econ. 10, 23 p. 1948. 281.176 C764T

Spain.

48456 CONFERENCE OF FARMERS MUTUAL FIRE INSURANCE COMPANIES, ST. PAUL, 1948. Conference of Farmers Mutual Fire Insurance Companies. Mutual Ins. B. 35(10/11): 49-54. Oct./Nov. 1948. 284.69 C76

48457 CONFERENCE OF FARMERS MUTUAL HAIL INSURANCE COMPANIES, ST. PAUL, 1948. Conference of Farmers Mutual Hail Insurance Companies. Mutual Ins. B. 35(10/11): 55-56. Oct./Nov. 1948. 284.69 C762

48458 CONFERENCE OF FARMERS MUTUAL WINDSTORM INSURANCE COMPANIES, ST. PAUL, 1948. Conference of Farmers Mutual Windstorm Insurance Companies. Mutual Ins. B. 35(10/11): 57-62. Oct./Nov. 1948. 284.69 C763

48459 THE FEDERAL crop insurance program. Iowa Law Rev. 34: 304-318. Jan. 1949. L9 Io9

48460 FENDEL, J. Landwirtschaft und arbeitslosenversicherungsgesetz. Kurzbrieft. Ernähr. u. Landw. 12, E 15: 1-3. (Concl.) Dec. 1948. 281.8 K96

Germany.

48461 HECK, P. Die gesetzliche unfallversicherung des gartenbaus. Süddeut. Erwerbsgärt. 2: 7. (Concl.) Jan. 1948. 80 Su2

48462 JOUVET, A. A. Les lois sociales dans l'agriculture algérienne. Voix des Colons 31(1497): 3. (To be cont.) Mar. 28, 1949. 24 V85

48463 KJØS, E. Fire insurance for barns with tractor. An insurance company for tractor owners. (In Norwegian.) Norsk Landbr. 15: 61-62. Feb. 18, 1949. 11 N8122

48464 KOCH, Was muss die landwirtschaft von ihrer krankenkasse wissen? Landw. Wchnbl. f. Westfalen u. Lippe 106: 89-90. Feb. 5, 1949. 18 L2346

48465 MANN, A. S. Insurance has fostered world progress. Farmer & Dairyman 41: 20-21. Jan. 1949. 23 F225

48466 MONTANA. STATE BD. OF HAIL INSURANCE. 32d annual report, 1948. 1949. 7 p. 284.69 M762

48467 NATIONAL ASSOCIATION OF MUTUAL INSURANCE COMPANIES. GENERAL FARM CONFERENCE, ST. PAUL, 1948. General Farm Conference. Mutual Ins. B. 35(10/11): 41-48. Oct./Nov. 1948. 284.69 N212

48468 PERRON, M. Vers la sécurité par les assurances. Foyer Rur. [Montreal] 8(7): 5-6. Apr. 1949. 7 F83

Need for insurance on farms.

48469 SASKATCHEWAN MUNICIPAL HAIL INSURANCE ASSOCIATION. Annual report season 1948. 1949. 20 p. 284.69 Sa7

48470 SERBAT, L. Les lois sociales en agriculture. Monit. Agr. 2(61): 5. Mar. 13, 1949. 14 M744

Social insurance and family allowances in France.

48471 SPITZ, H. Die tätigkeit der Tabak-Hagelkasse. Bas-Rhin Agr. 4: 123. Mar. 5, 1949. 14 B29

48472 TOSCANI, C. Unified agricultural contribution tions. (In Italian.) Genio Rur. 12: 98-100. Jan./Feb. 1949. 281.8 R522

Social security in Italy.

48473 U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook, dollar coverage insurance. Washington? 1948. 12 p. 1.952 W564

48474 U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook, monetary coverage insurance. Washington? 1948. 12 p. 1.952 W564

#### Taxation

48475 ADAMS, J. G. Income tax on receipts from cull cows. Ayrshire Digest 35: 240, 320. Apr. 15, 1949. 43.8 Ay7

48476 AGRICULTURAL cooperatives and the property tax in Iowa. Iowa Law Rev. 34: 340-348. Jan. 1949. L9 Io9

48477 BARTON, W. E. "Capital gains" for the cattleman; under present law the sales from a breeding herd may be considered as capital gain rather than as ordinary income. An opinion. Amer. Hereford J. 39(24): 10-11, 18. Apr. 15, 1949. 43.8 Am32

Forward by A. R. Johnson.

48478 BECKERICH, A. L'impôt cédulaire sur les salaires agricoles est supprimé. Rustica 22(11): 224. Mar. 13, 1949. 14 R92

France.

48479 BLOM, H. Dairy farm accounts and income taxation. (In Norwegian.) Norsk Landbr. 15: 60-61. Feb. 18, 1949. 11 N8122

48480 BRADLEY, W. L. Protective procedures to meet income tax factors in accounting for cooperatives. Amer. Coop. (1948) 20: 284-291. 1949. 280.29 Am3A

48481 COLGAN, H. O., JR. Tax problems of farmers. Rev. New York, Amer. Bar Assoc. Sect. of Taxation, 1948. 46 p. (Cur. Prob. Fed. Taxation, 6) 284.5 C68

Income taxation.

48482 GEORGE, A. V. Tax on rubber. Business Week [Madras] Planting Sup. 1948: 16. Aug. 21, 1948. 281.182 B96

48483 GOZARD, G. Les impôts agricoles ne doivent pas excéder les moyens des cultivateurs. Moisson 5 (180): 1. Feb. 25, 1949. 14 M72

France.

48484 HAMMET, M. Oleo tax repeal recommended. Amer. Butter & Cheese Rev. 11(3): 2-3. Mar. 1949. 44.8 Am37

48485 HART, S. H., and EMBREE, W. D., JR. Stockmen's income taxes. (Sum.) Cow Country 76(9): 4-5. Feb. 17, 1949. 49 C83

48486 HOPF, W. Einheitsbewertung und wertfortschreibung. Allgäuer Bauernbl. 17: 59-60. Feb. 4, 1949. 18 AL53

For taxation.



48487 LAURENS, C. Toujours la reforme fiscale. *Unité Paysanne* 4(173): 1, 4. Feb. 26, 1949. 14 Un3 France.

48488 NATIONAL TOBACCO TAX ASSOCIATION. Comparative tobacco tax collections, per capita tobacco tax collections, per capita cigarette consumption, by States, for 1947. Chicago, 1948. 9 p. 284.5 N2199C

48489 SIRRI, A. The graduated tax on inheritances. (In Italian.) *Agr. Modenese* 5(4): 4. Mar. 1/15, 1949. 16 Ag8255

48490 SØRENSEN, F. Observations on the land tax increase and the gardeners. (In Danish.) *Gart.-Tid.* 65: 115-116. Mar. 16, 1949. 80 G192

48491 STRUNZ, H. Die einkommen- und umsatzsteuer-pauschalierung der erwerbsgärtner. *Gartenbauwirtschaft [Wien]* 1948(11): 6-7. Nov. 15, 1948. 80 G193 80 G1936

48492 STRUNZ, H. Erleichterungen der vermögensabgabe. *Gartenbauwirtschaft [Wien]* 1949(1): 2-3. Jan. 15, 1949. 80 G1936

48493 STRUNZ, H. Grundsteuer-gemeindesteuer. *Österr. Bauernbündler* 5(13): 2. Mar. 26, 1949. 19 Os7

48494 STRUNZ, H. Lohnsteuerkarten besorgen! *Salzburger Bauer* 4(4): 3. Jan. 27, 1949. 19 Sa3

48495 STRUNZ, H. Richtigstellung der einkommensteuertabelle. *Österr. Weinztg.* 4: 94-95. Mar. 12, 1949. 390.8 Os7

48496 STRUNZ, H. Warum nicht steuervereinfachung? *Salzburger Bauer* 4(10): 4, 6. Mar. 10, 1949. 19 Sa3

48497 STRUNZ, H. Wiener getränkesteuerberechnung. *Österr. Weinztg.* 4: 106. Mar. 26, 1949. 390.8 Os7

Wine.  
48498 THROCKMORTON, R. B. Federal taxation of the farmer. *Iowa Law Rev.* 34: 251-285. Jan. 1949. L9 Io9

48499 U. S. CONGRESS. HOUSE. COMMITTEE ON WAYS AND MEANS. State tobacco-tax collections. Hearings, 81st Cong., 1st sess. on H. R. 195, a bill to assist States in collecting sales and use taxes on tobacco, Mar. 28-29, 31, 1949. Washington, 1949. 132 p.

#### AGRICULTURAL LABOR AND WAGES

48500 BELLUCCI, V. Human labor on Tuscan farms. (In Italian.) *Riv. di Econ. Agr.* 3: 514-532. 1948. 281.8 R52

English summary.

48501 BOOKHOUT, B. R., and CHRISTIAN, R. W. Custom rates for farm work. *Mich. Farm Econ.* 75: 3. Mar. 1949. 275.29 M58A

48502 BOSLEY, D. R. You can keep a good man down on the farm. *Mont. Farmer-Stockman* 36(15): 1, 3. Apr. 1, 1949. 6 M764

48503 CALZECCHI-ONESTI, A. Call to the living forces of production; the true problem: work for all. (In Italian.) *Gior. di Agr.* 59: 89. Mar. 20, 1949. 16 It1G Italy.

48504 CARRANTE, A. Development of agricultural labor during the last fifty years. (In Italian.) *Georgofili [Firenze]* (ser. 6) 12: 42-61. Jan./June 1948. 507 F51

48505 CHACKO, V. I. Plantation labour. *Business Week [Madras]* Planting Sup. 1948: 20-21. Aug. 21, 1948. 281.182 B96

48506 COLT, S. Are farmers good bosses? *Cornell Countryman* 46(6): 20, 36. Mar. 1949. 6 C81

48507 DEMBINSKI, J. Polemik über die landarbeiterfrage. *Landarbeiter Arch.* 4(1/2): 16-19. Jan./Feb. 1949. 283.8 L23

Austria.

48508 DIETER, B. Der "legale" arbeitslohn im tarifrecht. *Süddeut. Erwerbsgärt.* 3: 14. Jan. 8, 1949. 80 Su2

48509 EARLE, W. The amount of time and travel required to feed and water hens. *N. Y. Agr. Col. Farm Econ.* 167: 4306-4308. Mar. 1949. 280.8 C812

48510 GOOCH, E. G. Los trabajadores del campo en la Gran Bretaña. *Hereford* 16: 106-108. Mar. 1949. 43.8 H42

48511 HAAN, J. R. A little bulletin does a big job. *Employment Security Rev.* 16(4): 13-14, 23. Apr. 1949. 158.3 Em72

Farm labor recruiting and placement.

48512 HAMMOND, D. Fast recruitment, speedy harvest and an extra grade; a million dollar two weeks. *Employment Security Rev.* 16(4): 9-11. Apr. 1949. 158.3 Em72

Farm labor.

48513 HAUSLEITNER, R. Warnung vor dem landarbeitersgesetz. *Landarbeiter Arch.* 4(1/2): 1-4. Jan./Feb. 1949. 283.8 L23

Austria.

48514 HOYT, H. N. Hunting the elusive farm hand. *Employment Security Rev.* 16(4): 24-25. Apr. 1949. 158.3 Em72

48515 INTERNATIONAL LABOR ORGANIZATION. REGIONAL MEETING FOR THE NEAR AND MIDDLE EAST, CAIRO, 1947. Conditions of life and work of the agricultural worker. n. p., 1948? 56 p. 283 In8292

48516 KAMINSKI, A. E. Organizatsiia zven'ev v peredovykh kolkhozakh [Organization of the squads on the leading collective farms]. Moskva, Sel'khozgiz, 1948. 71 p. (Organizatsiia Truda v Kolkhozakh) 283 K123

48517 KAUFMAN, J. J. Farm labor during World War II. *J. Farm Econ.* 31: 131-142. Feb. 1949. 280.8 J822

48518 KUO, M. H. Problems of agricultural labor and capital in China. (In Chinese.) *Monthly Farmers' Bank China* 9(7): 1-8. July 1948. 281.9 F225M

English summary.

48519 LAMEGO, A. The origin of slavery in the fields. (In Portuguese.) *Brasil Açucareiro* 32: 490-492. Nov. 1948. 65.8 B73

48520 LAMY, R. Souffrions-nous cette année d'une pénurie d'hommes? *Moisson* 5(178): 1-2. Feb. 11, 1949. 14 M72

France.

48521 LARIN, D. States prepare farm labor programs. *Employment Security Rev.* 16(4): 3. Apr. 1949. 158.3 Em72

48522 LENHART, M. W. A farm labor information program. *Employment Security Rev.* 16(4): 20-22. Apr. 1949. 158.3 Em72

48523 LUMPKINS, J. H., and FARRELL, F. J. Recruitment aids at work in Colorado. *Employment Security Rev.* 16(4): 7-8. Apr. 1949. 158.3 Em72

48524 MCCULLY, A. E. Farm recruitment wins out in tight labor market. *Employment Security Rev.* 16(4): 15-17. Apr. 1949. 158.3 Em72

48525 MAREK, J. Quantity of manual and animal-team work needed on an agricultural holding 50 years ago and to-day. (In Czech.) *Zeměděl. Úst. Účet.-Sprav. ČSR. Zpráv.* 11: 85-93. 1948. 266.8 C993

Summary in Russian, French, and English.

48526 MYRICK, G. A. 18 cows, 170 acres and no hired hand! *Capper's Farmer* 60(4): 15, 21. Apr. 1949. 6 M693

Work management and equipment.

48527 NATIONAL FARM LABOR UNION. Statement of H. L. Mitchell, president ... to U. S. Senate Committee on Banking and Currency, Housing Sub-Committee re S. 138 for housing of farm workers. n. p., 1949. 3 p. 296.2 N215

48528 NATIONAL FARM LABOR UNION. Statement of H. L. Mitchell, president [on] amending Fair Labor Standards Act to include agricultural workers. n. p., 1949. 2 p. 283 N2122

48529 NESTERENKO, V. T. Oplata truda kolkhoznikov v zavisimosti ot urozhainosti [Payment for labor of collective farmers in relation to crop productivity]. *Stavropol', Kraevoe Knizhnoe Izd-vo*, 1948. 26 p. (Bibliotekha Kolkhoznika. Seriya Massovo-Politicheskoi Literatury) 283 N37

48530 ORTEGA, J. A. Una conveniente reforma en la clasificación del censo laboral para su mejor comparación con las estadísticas de paro. *B. Sind. de Estadís.* 3(12): 38-44. Oct./Dec. 1948. 263 Es8B

Includes agricultural labor in Spain.

48531 PANERAI, A. Human labor and the mechanization of agriculture in the Apulian Tavoliere. (In Italian.) *Riv. di Econ. Agr.* 3: 533-558. 1948. 281.8 R52

English summary.

48532 PIEL-DESRUISSEAUX, J. Organisation scientifique du travail en agriculture. Paris, 1948. 166 p. (Maison Rustique) 281 P59

Article with same title in *Acad. d'Agr. de France* 35: 78-79. Jan. 19/26, 1949. 14 P215Bc

48533 POWELL, J. M. Migrant-worker stream of the Atlantic seaboard—we caught 'em on the road. *Employment Security Rev.* 16(4): 11-12. Apr. 1949. 158.3 Em72



- 48534 REDONDO GÓMEZ, J. Paro obrero en la agricultura. Congreso Sindical de la Tierra. Temas Econ. 12, 50 p. 1948. 281.176 C764T Spain.
- 48535 RIEDEL, G. Berufskrankheiten in milchzeuger-betrieben. Allgäuer Bauernbl. 17: 71-74, 89-90. (Concl.) Feb. 11-18, 1949. 18 AL53
- 48536 ROBINSON, M. M. Prices & wages. Canad. Grower 72(4): 3. Apr. 11, 1949. 80 C16
- 48537 SMITH, M. H., JR. Spare time for harvest time—sharpshooters hit the bull's eye! Employment Security Rev. 16(4): 18-20. Apr. 1949. 158.3 Em72 Recruitment.
- 48538 STOCKBRIDGE, R. R. What are employee relations in the poultry enterprise. Northeast. Poultryman 51: 14. Jan. 1949. 47.8 N44
- 48539 STURROCK, F. G. Labour organisation in milk production. Cambridge U. Dept. Agr., Farm Econ. Br. Rpt. 32, 39 p. Feb. 1949. 281.9 C14
- 48540 TROTTER, P. J. "Información estación" Missouri 1948. Employment Security Rev. 16(4): 22-23. Apr. 1949. 158.3 Em72 Farm labor.
- 48541 TSIKOTO, I. A. Distribution of income in accordance with crop yields on the collective farms. (In Russian.) Sad i Ogorod 1948(9): 14-19. Sept. 1948. 87 Sal
- 48542 UHLIRS, J. Die löhne der landarbeiter in den bäuerlichen betrieben. Landarbeiter Arch. 4(1/2): 4-16. Jan./Feb. 1949. 283.8 L23 Austria.
- 48543 UNITED PACKINGHOUSE WORKERS OF AMERICA, CIO. FARMER-LABOR RELATIONS DEPT. Why packinghouse workers are forced to strike. Des Moines, 1948? Folder. 283 Un399632
- 48544 U. S. CONGRESS. HOUSE. COMMITTEE ON EDUCATION AND LABOR. Amendments to the Fair Labor Standards Act of 1938. Hearings, 81st Cong., 1st sess. on H. R. 2033; v. 1-2. Washington, 1949. 1708 p. Vol. 1. Hearings held in Washington, D. C., Jan. 27-28, 31, Feb. 1-5, 1949; vol. 2. Hearings held in Washington, D. C., Feb. 7-9, 14-18, 1949. Brings out the effects of the legislation upon various agricultural products industries.
- 48545 U. S. CONGRESS. SENATE. COMMITTEE ON LABOR AND PUBLIC WELFARE. Labor relations. Hearings, 81st Cong., 1st sess. on S. 249. Pt. 2-3. Washington, 1949. p. 533-1658. Pt. 2, Feb. 4, 5, and 7, 1949; pt. 3, Feb. 8-10, 1949.
- 48546 VINTAIKIN, Z. P. To improve work management on collective farms. (In Russian.) Sad i Ogorod 1948(9): 6-10. Sept. 1948. 87 Sal U. S. S. R.
- 48547 WILLET, W. The English workers in agriculture. Interagra 2: 342-346. 1948. 28 In825
- 48548 WINDISCH, K. Kärntner landarbeitsordnung. Kärntner Bauer 99: 67-69. Mar. 1, 1949. 19 K14
- 48549 WITNEY, F. Agricultural workers under national labor relations laws. Urbana, 1948. 32 p. (Ill. U. Inst. Labor and Indus. Relat. I.L.I.R. P., ser. A, v. 2) 283 W61
- AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS
- 48550 ADAIR, W. The year 1948 in retrospect. Farming News and North Brit. Agr. 101: 24-25. Jan. 1, 1949. 10 N82 Chiefly farming in Scotland.
- 48551 THE AGRICULTURAL outlook for Canada, 1949. 7 p. 1949. 281.8 Ag852
- 48552 ALBERIZZI, D. E. Can we be saved? Sad situazione for farming. (In Italian.) Agricoltore [Milano] (n. s.) 30(7): 1. Feb. 12, 1949. 16 Ag862
- 48553 ALVAREZ ACEVEDO, J. M. La política agraria. Cuba. Min. de Agr. Rev. (ser. 6) 31(32): 9-12. July/Dec. 1948. 8 Ag88Re
- 48554 AMERICAN COUNCIL ON EDUCATION. COMMITTEE ON SOUTHERN REGIONAL STUDIES AND EDUCATION. Scientists look at resources, first report from Gatlinburg Conference III. Lexington, Ky., 1948. 160 p. (Bur. School Serv. Col. Ed. U. Ky. B., v. 20, No. 4, June 1948) 280.002 Am3S Agricultural.
- 48555 ARAGON MONTEJO, J. La revancha del campo (apuntes de política agraria). Ager 4: 229-233. (Cont.) Nov./Dec. 1948. 33.23 Ag3 Spain.
- 48556 BABCOCK, H. E. We can't take chances on tomorrow's meals. Country Gent. 119(4): 15, 78, 80-81. Apr. 1949. 6 C833 A food and farm program.
- 48557 BABCOCK, R. Expanded agricultural production means more income for Nebraskans. Irrig. Farmer 6(11): 4, 13-15. Mar. 3, 1949. 55.8 Ir78
- 48558 BALASUBRAMANIAN, V. Production targets in agriculture. Agr. Econ. 1: 26-27. Nov. 1948. 281.8 Ag832 India.
- 48559 BALLENTINE, L. Y. An all-out program for North Carolina agriculture. N. C. Dept. Agr. Agr. Rev. 24(5): 1-2. Mar. 1, 1949. 2 N81Ag
- 48560 BANFIELD, E. C. Planning under the Research and Marketing Act of 1946; a study in the sociology of knowledge. J. Farm Econ. 31: 48-75. Feb. 1949. 280.8 J822
- 48561 BENETELLO, G. Padua in an economic gradation of the Venetian provinces. (In Italian.) Voce dei Campi, dei Mercati e delle Off. 38(12): 1. Mar. 19, 1949. 16 V85 Agricultural.
- 48562 BERTHAULT, P. Agriculture paysanne et agriculture d'agronomes. Rev. Agr. de l'Afrique du Nord 47: 78-80. Feb. 11, 1949. 80 R326
- 48563 BERTHAULT, P. L'orientation de notre politique agricole. Rev. Agr. de l'Afrique du Nord 47: 144-146. Mar. 11, 1949. 80 R326
- 48564 BIRDS-EYE view of Netherlands agriculture. Way Ahead 1(3): 37-56. Spring, 1948. 280.8 W362
- 48565 BLACK, J. D. Coming readjustments in agriculture—domestic phases. J. Farm Econ. 31: 1-15. Feb. 1949. 280.8 J822 Discussion, by T. W. Schultz, p. 16-18.
- 48566 BOLDINI, C. Agriculture and politics. (In Italian.) Agr. Trevisano 4(18): 1, 3. Dec. 31, 1948. 16 Ag8258
- 48567 BORDING, K. Dänemarks landwirtschaft im aufstieg. Ernährungsdienst 4(18): 2. Mar. 3, 1949. 389.8 Er63
- 48568 BRANNAN, C. F. American agriculture on a new frontier. Washington, U. S. D. A., 1949. 11 p. 1.91 A2B73 A world agricultural program. Abstract in Farm Policy Forum 2(2): 22-24. Apr. 1949. 281.8 F7224
- 48569 BRENDL, O. Die bedeutung der afrikanischen landwirtschaft und die versorgung der übrigen welt mit deren erzeugnissen. Bodenkultur 2: 75-89. 1948. 19 B635
- 48570 BRENDSTRUP, S., and ROSENSTAND, E. Denmark's harvest and cattle raising ought to be doubled. (In Danish.) Dansk Landbr. 68: 102-104. Feb. 24, 1949. 280.28 V91
- 48571 BROWNE, G. A. Most people in Pakistan derive their living from agriculture. Foreign Trade 5: 734-737. Apr. 2, 1949. 286.8 C162
- 48572 BUCHANAN-ALLEN, R. Kenya needs stable markets; factors which the intending settler should consider. Field 192: 663-664. Dec. 11, 1948. 10 F45 Agriculture.
- 48573 BULLIS, H. A. Our foreign policy in relation to agriculture. Mod. Miller 76(6): 21-22. Mar. 19, 1949. 298.8 M72
- 48574 BUTT, L. E. Belgian agriculture. (In Chinese.) Monthly Farmers' Bank China 9(7): 22-28. July 1948. 281.9 F225M
- 48575 CANADA, R. W. Japan today and tomorrow. Agr. Ed. Mag. 21: 222-223. Apr. 1949. 275.8 Ag8 Agriculture.
- 48576 CANADIAN FEDERATION OF AGRICULTURE. The president's address, annual meeting, Saskatoon, January, 1949. 1949. 15 p. 281.9 C166P Agriculture.
- 48577 CASA-PACHECO, MARQUES DE. El Ministerio de Industria y la agricultura. Siembra 1949: 12-13. Jan. 1949. 15 S11 Ministerio de Industria y Comercio de España.
- 48578 CEYLON. DEPT. OF STATISTICS. Ceylon year book 1948. 1948. 223 p. 272 C336 Chapter VI discusses agriculture.



48579 CHAPRON, C. La part de l'agriculture dans le revenu national. *Unité Paysanne* 4(179): 1, 4. Apr. 9, 1949. 14 Un3

France.

48580 COLORADO. STATE AGRICULTURAL PLANNING COMMITTEE. Agricultural policy. *Colo. Agr. Col. Ext. C.* 161-A, 34 p. Feb. 1949. 275.29 C71C1

48581 CONGRESO Sindical de la Tierra, Seville, 1948. *Temas económicos.* 14 nos. Madrid, 1948. 281.176 C764T

48582 CONSERVATIVE AND UNIONIST PARTY ORGANISATION. The conservative policy for Wales and Monmouthshire. London, 1949. 24 p. 280.171 C76  
Includes agriculture.

48583 COQUERY, L'application du plan de modernisation à l'agriculture; premiers résultats et perspectives. France. Min. de l'Agr. *Rev. Etudes & Monog.* 1948: 113-118. July 1948. 281.8 F84

48584 CORONAT, F. La situation de l'agriculture française. *Agence France-Presse* 231: 3-6. Mar. 19, 1949. 280.9 Ag3

48585 DELATOUR, F. La situation agricole française. *Agence France-Presse. Inform. et Doc.* 123: 14-17. (Concl.) Feb. 22, 1947. 280.9 Ag3

48586 DELOYE, M. L'agriculture Algérienne en 1948 - bilan. I-II. *Rev. Agr. de l'Afrique du Nord.* 47: 111-115, 131-134. Feb. 25-Mar. 4, 1949. 80 R326

48587 DELOYE, M. L'orientation de l'agriculture algérienne. *Rev. Agr. de l'Afrique du Nord* 47: 147-151. Mar. 11, 1949. 80 R326

48588 DIURISH, IŮ. Une nouvelle vie dans nos villages. (In Russian.) *Interagra* 2: 233-244. 1948. 28 In825

French summary.

Agricultural policy of Czechoslovakia.

48589 DMITRIEV, V. The Stalin Plan for abundant and stable harvests. (In Russian.) *Voprosy Ekonom.* 1948(10): 3-17. 1948. 280.8 V89

48590 DRUCE, P. C. The outlook for 1949. *Agr. Gaz. N. S. Wales* 60: 11-14. Jan. 1949. 23 N472

48591 DURHAM, J. A. A suggested course in agricultural law. *Iowa Law Rev.* 34: 286-303. Jan. 1949. L9 Io9

48592 EISEMANN. Landwirtschaftliches sofortprogramm für das wirtschaftsjahr 1949/50; Württemberg. *Wchnbl. f. Landw.* 116: 137-138. Mar. 12, 1949. 18 W96

Also in *Bad. Landw. Wchnbl.* 116: 125-126. Mar. 12, 1949. 18 B142

48593 FITZGERALD, D. A. Coming readjustments in agriculture—the international phase. *J. Farm Econ.* 31: 19-28. Feb. 1949. 280.8 J822

48594 FLEURY, F. Dans le Comté de Maskinongé, autrefois et aujourd'hui. *Terre de Chez Nous* 21(6A): 18-19. Apr. 6, 1949. 7 T27  
Agriculture.

48595 FRANCE. DIRECTION DE LA DOCUMENTATION. Le Département de La Réunion. France. *Dir. de la Doc. Notes Doc. et Études* 1099, 18 p. Mar. 28, 1949. 280.9 F843

Includes agriculture.

48596 FRANCE. DIRECTION DE LA DOCUMENTATION. L'évolution politique et économique de l'Ethiopie depuis la fin de la seconde guerre mondiale. France. *Dir. de la Doc. Notes Doc. et Études* 1094, 24 p. Mar. 21, 1949. 280.9 F843

Contains a section on agriculture.

48597 FRATEPIETRO, C. For obtaining production potentials: security and tranquility for our countryside. (In Italian.) *Gior. d'Ital. Agr.* 32(13): 1. Mar. 26, 1949. 16 G433

48598 FROMONT, P. Les résultats de la collaboration franco-syrienne dans le domaine agricole entre les deux guerres. *Acad. d'Agr. de France* 35: 109-113. Feb. 2/9, 1949. 14 P215Bc

Includes discussion.

On the agriculture of Syria.

48599 FUENTES IRUROZQUI, M. Econo aña de las Islas Canarias. *Inform. Com. Españ.* 183: 2-23. Nov. 15, 1948. 286.8 In3

English version, p. 24-27.

Includes agriculture.

48600 GASSER, G. W. Agriculture in Alaska. *Arctic* 1: 75-83. Autumn 1948. 470 Ar22

48601 GRAÇA, A. The Northeast [Brazil]. (In Portuguese.) *Pernambuco. Dept. de Asst. às Coop. Rev.* 11: 211-214. Sept./Oct. 1948. 280.29 P42  
Agriculture.

48602 GREAT BRITAIN. Report to the Food and Agriculture Organisation by the United Kingdom for 1947-8. 1948. 73 p. 389.9 G795

48603 GREAT BRITAIN. BD. OF TRADE. Spain; economic and commercial conditions in Spain, April 1948, by J. Walker. London, 1949. 179 p. (Overseas Econ. Surveys.) 263 G79

Contains a chapter on agriculture and forestry.

48604 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Basutoland for the year 1947. 1949. 79 p. (Colonial Ann. Rpts.) 256.02 C71

Includes agriculture.

48605 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Bermuda for the year 1947. 1949. 32 p. (Colonial Ann. Rpts.) 256.02 C71

Includes agricultural conditions.

48606 GREAT BRITAIN. COLONIAL OFFICE. Annual report on British Guiana for the year 1947. 1949. 98 p. (Colonial Ann. Rpts.) 256.02 C71

Includes agriculture.

48607 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Nigeria for the year 1947. 1949. 108 p. (Colonial Ann. Rpts.) 256.02 C71

Includes discussion of agriculture.

48608 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Sarawak for the year 1947. 1949. 102 p. (Colon. Ann. Rpts.) 256.02 C71

Includes agriculture.

48609 GREAT BRITAIN. COLONIAL OFFICE. Annual report on the Colony and Protectorate of Kenya for the year 1947. 1949. 108 p. (Colonial Ann. Rpts.) 256.02 C71

Includes the situation in agriculture.

48610 GREAT BRITAIN. COLONIAL OFFICE. Annual report on the Gambia for the year 1947. 1949. 51 p. (Colonial Ann. Rpts.) 256.02 C71

Includes agriculture.

48611 GREAT BRITAIN. COLONIAL OFFICE. Annual report on Trinidad & Tobago, B. W. I. for the year 1947. 1949. 103 p. (Colon. Ann. Rpts.) 256.02 C71

Includes agriculture.

48612 GREAT BRITAIN. PRIME MINISTER. Economic survey for 1949. 1949. 63 p. (Cmd. 7647) 280.9 G799

Contains a section on agriculture.

48613 GRIDER, H. Malheur County, Oregon. *Jersey B.* 68: 493, 572-573. Apr. 10, 1949. 43.8 J48  
Agriculture.

48614 GUARDIA, A. DE LA. *Agricultura nacional.* Panama, Imprenta Nacional, 1949. 32 p. 31.6 G934

48615 HÅKANSSON, R. Swedish agricultural conditions. (In Swedish.) *Dansk Landbr.* 68: 93-94. Feb. 17, 1949. 280.28 V91

48616 HARTLEY, W. Agriculture in South America. *Queensland Prod.* 30(28): 20-21. Jan. 5, 1949. 23 Q35

48617 HODGKIN, C. New trend in agriculture; Brannan program slanted to improve U. S. economy. *Coop. Consum.* 16(7): 5, 11. Apr. 16, 1949. 280.28 C7836

48618 HORRING, J. The new course of agricultural policy. (In Dutch.) *Econ.-Statist. Ber.* 34: 188-190. Mar. 9, 1949. 280.8 Ec722

English summary.

Netherlands.

48619 JACKSON, H. Farm legislation. *Land O'Lakes News* 29(3): 22-23. Mar. 1949. 44.8 L22

48620 JAGGI, E. Probleme der schweizer landwirtschaft. *Landarbeiter Arch.* 4(1/2): 20-22. Jan./Feb. 1949. 283.8 L23

48621 JESNESS, O. B. Agriculture as affected by foreign policy. (Abs.) *Ill. Farm Econ.* 164/165: 788-791. Jan./Feb. 1949. 275.28 IL5

48622 JOHANSEN, C. Denmark's long term program 1948/49-1952/53. (In Danish.) *Tidsskr. for Landøkonomi* 1949: 129-135. Mar. 1949. 11 T43

Chiefly on the Marshall Plan. Includes agriculture.

48623 JOSETTI, N. Summary of the program of the Ministry of Agriculture [Brazil]. (In Portuguese.) *Soc. Coop. da Indús. Pecuaria do Pará. B.* 16(71): 2-3. Oct./Dec. 1948. 280.2409 So1



- 48621 KAMPP, A. H. Agriculture on the Faeroe islands. (In Danish.) Tidsskr. for Landøkonomi 1949: 83-102. Feb. 1949. 11 T43
- 48622 KOCH, M. Agrarpolitik oder erfassungs-politik? Württemb. Wehnl. f. Landw. 116: 121-122. Mar. 5, 1949. 18 W96
- 48623 KRBlich, J. Przegląd rolnictwa Czechosłowacji [Survey of Czechoslovakian agriculture]. Praga, Instytut dla Międzynarodowej Współpracy w Dziedzinie Rolnictwa i Leśnictwa, 1948. 37 p. (Biblioteka Międzynarodowej Współpracy w Rolnictwie i Leśnictwie, 8) 231.177 K86P
- 48624 LAMBERK, K. Czechoslovak and Polish col-laboration. (In Russian.) Interagra 2: 393-394. 1948. 28 In825  
In agriculture and forestry.
- 48625 LAURENT, R. Coup d'œil sur l'agriculture en France: la situation des cultures au 1er octobre 1948. Inform. Maroc. 410: 1, 4. Nov. 20, 1948. 281.8 In3
- 48626 LAURENT, R. La situation agricole de la France. Inform. Maroc. 420: 1, 3. Jan. 29, 1949. 281.8 In3
- 48627 LAVOIE, J. H. Evolution agricole et conserva-tion. Paysana 12: 6-7. Mar. 1949. 7 F29  
France.
- 48628 LEVEQUE, P. F. Quelques aspects de l'avenir de notre agriculture. Unité Paysanne 4(172): 1, 4. Feb. 19, 1949. 14 Un3  
France.
- 48629 LIEU, S. C. A study in allocation of agricul-ture. (In Chinese.) J. Agr. Econ. 1(3): 1-29. June 1948. 281.8 J822
- 48630 LIU, C. Y. Planned economy and agricultural planning. (In Chinese.) J. Agr. Econ. 1(3): 58-65. June 1948. 281.8 J822
- 48631 LONGCHAMON, H., and CHOUARD, P. Ré-novation agricole ou faillite. Agr. Prat. 113: 69-76. (To be cont.) Feb. 1949. 14 J82  
France.
- 48632 MAN'KOV, F. I. Research carried on at the Poliarnaia Opytnaia Stantsia of VIR. (In Russian.) Agrobiologiya 1948(3): 102-112. May/June 1948. 20 Ag822  
Agriculture in Arctic regions.
- 48633 MERLINI, G. Agricultural regions of Emilia and Romagna. (In Italian.) Universo 28: 257-272. (To be cont.) May/June 1948. 331.8 Un3
- 48634 MONT'ALEGRE, O. Brazilian economy. (In Portuguese.) Observador Econ. e Financ. 13(157): 42-56. Feb. 1949. 280.8 Ob72  
Includes agriculture.
- 48635 MONTANARI, V. Brief notes on the mountain-ous region of Venetia. (In Italian.) Agr. delle Venezie 2: 1037-1044. Nov./Dec. 1948. 16 Ag826
- 48636 MONTY, T. J. Greek agricultural output rises despite civil disturbances. Foreign Trade 5: 830-832. Apr. 16, 1949. 286.8 C162
- 48637 MOYA, M. A. DE. Economic evolution of the Dominican Republic. (In Portuguese.) Fazenda 44(3): 30-31, 56. Mar. 1949. 6 H11P  
Agricultural.
- 48638 MÜKSCH, L. Die bedeutung des kulturin-genieurs für den wiederaufbau. Bodenkultur 2: 307-310. 1948. 19 B635  
Austria.
- 48639 NAGGAR, F. Nouveau tournant de la politique agraire en Yougoslavie. Agence France-Presse. Inform. et Doc. 234: 6-8. Apr. 9, 1949. 280.9 Ag3
- 48640 NORTHERN IRELAND. MINISTRY OF AGRI-CULTURE. Agriculture Act (Northern Ireland), 1949. North. Ireland. Min. Agr. Monthly Rpt. 23: 322-327. Mar. 1949. 256.13 Ag82M
- 48641 NORTON, L. J. Is production adjustment necessary? Farm Policy Forum 2(2): 18-21. Apr. 1949. 281.8 F7224
- 48642 NORWAY. LANDBRUKSDEPARTEMENTET. Report on public enterprises for the aid of agriculture in the year 1945. (In Norwegian.) Oslo, 1949. 128 p. 11 C46
- 48643 OLLEA, D. E. El campo será siempre la fuente permanente del progreso y la riqueza argentina; hay que producir más. Gac. Algodonera 24(300): 1-2, 4. Jan. 31, 1949. 72.8 G11
- 48644 ORLANDO, G. The economic situation of agri-culture in 1948. Rev. Econ. Cond. Italy 3: 32-40. Jan. 1949. 280.8 R3236
- 48645 ORSI, S. Aspects and problems of French agri-culture. (In Italian.) Georgofili [Firenze] (ser. 6) 12: 1-24. Ref. Jan./June 1948. 507 F51
- 48646 PAVLOVSKY, G. The agricultural and popula-tion situation in postwar Australia. (In Italian.) Riv. di Econ. Agr. 3: 619-627. 1948. 281.8 R52  
Summary in English.
- 48647 PICARD, A. J. Essai d'orientation agricole. Agr. Charentais 4(5): 1-2. Mar. 1949. 14 Ag825
- 48648 POE, C. What do you think of Scott's six-point program for rural progress? Prog. Farmer, Ga.-Ala.-Fla. Ed. 64(2): 130. Feb. 1949. 6 P945G  
Program of W. Kerr Scott, Governor of North Carolina.
- 48649 RAKITNIKOV, A. N. Agricultural districts of Riazan Region. (In Russian.) Voprosy Geog. 1948(10): 67-138. 1948. 331.8 V89
- 48650 RALLI, C. M. Egypt and the Marshall Plan. Egypt. Cotton Gaz. 6: 9-12. Jan. 1949. 72.8 Eg9
- 48651 RAMAKRISHNAN, V. G. Our agricultural problem. Agr. Econ. 1: 14-15. Nov. 1948. 281.8 Ag832  
India.
- 48652 RIDDER, J. Agriculture in 1947-48. Tidsskr. for Landøkonomi 1949: 136-141. Mar. 1949. 11 T43  
Denmark.
- 48653 RODRIGUEZ, C. La agricultura es una indus-tria. Campo [Guadalajara] 17: 5-6. Jan. 1949. 8 C76
- 48654 ROELS, M. Il faut "stopper" la crise agricole en harmonisant les prix et en nous assurant des débou-chés extérieurs. Moisson 5(179): 1, 2. Feb. 18, 1949. 14 M72
- 48655 RONALD, W. R. A "grass roots" farm pro-gram. Farm Policy Forum 2(2): 45-48. Apr. 1949. 281.8 F7224
- 48656 RUFIN, G. Notre agriculture devant l'actualité économique. Jura Agr. (n. s.) 22: 1. Mar. 15, 1949. 14 J97
- 48657 RUSSELL, SIR E. J. British agricultural books—from the great improvers to modern times. Brit. Agr. J. 1: 119-122. Autumn 1948. 10 B776
- 48658 SALA ROCA, E. La crisis agraria del campo de Tarragona. Cult. Mod. 31: 407-408. Nov. 1948. 15 C89  
Agricultural situation.
- 48659 SANCHEZ, J. Nuestra cosechas hicieron des-dichado el año agrícola 1948. Aliment. Nac. 7(135): 8-9, 12. Jan. 10, 1949. 389.8 AL42  
Spain.
- 48660 SANDERS, H. Farming in Britain. O.A.C. Rev. 61: 311-312. Mar. 1949. 276.8 On8  
Agriculture.
- 48661 SANDVIK, J. Ø. Problems and possibilities for agriculture in West-Norway. (In Norwegian.) (Ex-cerpts.) Norsk Landbr. 15: 112-114. Mar. 18, 1949. 11 N8122
- 48662 SCHICKELE, R. Comments on—a grass roots program. Farm Policy Forum 2(2): 49-52. Apr. 1949. 281.8 F7224
- 48663 SCHLOGL, A. Agrarpolitik einst und jetzt. Landw. Jahrb. f. Bayern. 25: 1-95. Oct. 1948. 18 L24
- 48664 SCHUMY, V. Bauer! Willst du frei bleiben? Burgenländische Bauernbündler 2(4): 1-2. Feb. 25, 1949. 19 B91
- 48665 SCHUMY, V. Der föderalismus und die land-wirtschaft. Allg. Bauern-Ztg. 4(9): 1. Feb. 26, 1949. 281.8 AL5  
Austria.
- 48666 SERANDOUR, P. La rude mission. Monit. Agr. 2(63): 3. Mar. 27, 1949. 14 M744  
French agricultural situation.
- 48667 SERPIERI, A. Liberty or planning? (In Ital-ian.) Gior. di Agr. 59: 89. Mar. 20, 1949. 16 It1G  
Italy.
- 48668 SHEPHERD, F. W. Agriculture in the Isles of Scilly. Gt. Brit. Min. Agr. Agriculture 55: 528-536. Mar. 1949. 10 G79J
- 48669 SIRRI, A. Contributions which the mountain must offer for the immediate increase of production. (In Italian.) Agr. Moden. 5(5): 2. Mar. 31, 1949. 16 Ag8255
- 48670 LA SITUATION économique en U.R.S.S. a la fin de 1948. France. Inst. Natl. de la Statis. et des Etudes Econ. Etudes et Conjoncture, Econ. Mond. 4: 72-100. Jan./Feb. 1949. 280.9 F842  
Includes agriculture.



- 48674 LA SITUATION économique mondiale au début de l'année 1949. France. Inst. Natl. de la Statis. et des Etudes Econ. Etudes et Conjoncture, Econ. Mond. 4: 3-41. Jan./Feb. 1949. 280.9 F842  
Includes agriculture.
- 48675 THE SOUTH and East African year book & guide, 49, 1949. London, 1949. 1165 p. 270 So892  
Includes agriculture.
- 48676 SPAGNOLI, A. Government contributions to farms. (In Italian.) *Coltivatore* 5(13): 2. Apr. 3, 1949. 16 C722
- 48677 STOCKBURGER. Zu neuen ordnungen. *Bad. Landw. Wchbl.* 116: 17-18. Jan. 15, 1949. 18 B142
- 48678 STOOSS, H. Bilanz zum jahresende. *Württemb. Wchnbl. f. Landw.* 116(1): 1-2. Jan. 1, 1949. 18 W96
- 48679 SUMMERS, T. H. Highlights of current agricultural situation. *Mtn. States Banker* 34(3): 15-16, 28. Mar. 1949. 284.8 M86
- 48680 THOMPSON, A. T. La ciencia y la vida agropecuaria en los Estados Unidos de Norte América. *Asoc. Argentina Criadores de Cerdos Rev.* 28(318): 25, 27-31. Feb. 1949. 46.9 As5
- 48681 TOLOV, V. V. Současná situace a rozvoj zemědělské výroby v SSSR [Contemporary situation for agricultural development in the U. S. S. R.]. Praha, Ústav pro Mezinárodní Spolupráci v Zemědělství a Lesnictví, 1948. 18 p. Bibliotéka Mezinárodní Spolupráce v Zemědělství a Lesnictví. 10) 281.179 T57
- 48682 TREANOR, K., and CLARK, C. E. Georgia's 1948 agricultural outlook. *Ga. Agr. Col. Ext. C.* 352, 12 p. Jan. 1948. 275.29 G29C
- 48683 TUGWELL, R. G. A planner's view of agriculture's future. *J. Farm Econ.* 31: 29-47. Feb. 1949. 280.8 J822
- 48684 UNITED NATIONS RELIEF AND REHABILITATION ADMINISTRATION. Agricultural rehabilitation in China. *United Nations Relief and Rehabil. Admin. Oper. Anal. Papers* 52, 46 p. Apr. 1948. 280.9 Un366Op
- 48685 UNITED NATIONS RELIEF AND REHABILITATION ADMINISTRATION. UNRRA in China 1945-1947. *United Nations Relief and Rehabil. Admin. Oper. Anal. Papers* 53, 375 p. Apr. 1948. 280.9 Un366Op  
Includes agricultural rehabilitation.
- 48686 UNITED NATIONS RELIEF AND REHABILITATION ADMINISTRATION. UNRRA in the Philippines, 1946-1947. *United Nations Relief and Rehabil. Admin. Oper. Anal. Papers* 50, 51 p. Apr. 1948. 280.9 Un366Op  
Agricultural.
- 48687 U. S. DEPT. OF STATE. Joint commission on rural reconstruction in China; agreement between the United States of America and China, effected by exchanges of notes signed at Nanking August 3 and 5, 1948. U. S. Dept. State. *Treaties & Other Internatl. Acts Ser.* 1848, 19 p. 1949. 150 T71T
- 48688 U. S. ECONOMIC COOPERATION ADMINISTRATION. Austria country study, European recovery program. Washington, 1949. 63 p. 173.2 Ec72Au  
Contains sections on agriculture.
- Library of the U. S. Dept. of Agriculture has similar studies for Turkey, the Netherlands, Western Germany, Trieste, Norway, Italy, Ireland, Iceland, Belgium and Luxembourg, Portugal, Sweden, and France.
- 48689 U. S. TARIFF COMMISSION. Economic controls and commercial policy in Uruguay. Washington, 1948. 33 p. 173 T17Ecu  
Includes agriculture and trade.
- 48690 U. S. TARIFF COMMISSION. Economic controls and commercial policy in Venezuela. Washington, 1948. 34 p. 173 T17Ecv  
Includes agriculture and trade.
- 48691 VANCE, R. B., IVEY, J. E., and BOND, M. N. Exploring the South. Chapel Hill, U. N. C. Press, 1949. 404 p. 280.902 V27E  
Contains chapters on agriculture and forestry.
- 48692 VASQUEZ, L. G. DE. Solo la agricultura e industrias salvarán a Panamá. *Rev. de Agr., Com. e Indus.* [Panama] 8(89): 31-32. Jan. 1949. 8 R3291
- 48693 VIVIANI, G. Italian agriculturists in Czechoslovakia. *Interagra* 2: 252-254. 1948. 28 In825  
Agriculture in Czechoslovakia.
- 48694 VOLAVKA, A. Le Plan Quinquennal du développement de l'agriculture tchécoslovaque. (In Russian.) *Interagra* 2: 255-262. 1948. 28 In825  
French summary.
- 48695 WARD, E. E. the outlook for ECAFE [United Nations Economic Commission for Asia and the Far East]. *Far East. Survey* 18: 73-77. Apr. 6, 1949. 280.9 In782  
Includes agricultural rehabilitation.
- 48696 WHAT is over the horizon? *Way Ahead* 1(3): 68-69. Spring, 1948. 280.8 W362  
Netherlands agriculture.
- 48697 WILBRAND. Die wirtschaftliche entwicklung der westfälisch-lippischen landwirtschaft. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 193-194. Mar. 12, 1949. 18 L2346
- 48698 WILLIAMS, T. Agriculture and economic recovery. *Scot. Farmer* 57: 465. Feb. 12, 1949. 10 Sco8  
The agricultural expansion program in Great Britain.
- 48699 WILSON, M. L. Abundance—what makes it possible in the United States. Washington, U. S. Ext. Serv., 1949. 11 p. 1.913 A2W69
- 48700 WINFIELD, G. F. China's basic problems. *Foreign Policy Rpts.* 25: 2-5. Mar. 15, 1949. 280.9 F76R  
Includes brief discussion of agricultural problems.
- 48701 ZOPPI, C. B., CASALGIATE, E. M. DI, and REMPICCI, F. A constructive assembly: the Grosseto resolutions. (In Italian.) *Ital. Agr.* 86: 179-181. Feb./Mar. 1949. 16 It1G  
A study of agricultural problems.

## Subsidies

- 48702 SANDEE, J. Subsidies now and thirty years ago. (In Dutch.) *Econ.-Statis. Ber.* 34: 151-152. Feb. 23, 1949. 280.8 Ec722  
English summary.  
Netherlands.

## COST AND STANDARD OF LIVING

- 48703 GARCÍA SERRANO, E. Elevación del nivel de vida del productor agrícola. *Congreso Sindical de la Tierra. Temas Econ.* 14, 38 p. 1948. 281.176 C764T  
Spain.
- 48704 MACNAUGHTON, M. A., and ANDAL, M. E. Changes in farm family living in three areas of the Prairie Provinces, from 1942-43 to 1947; with a supplement on distribution and use of family allowance payments in three areas of the Prairie Provinces 1947, by M. A. MacNaughton and J. M. Mann. *Canada Dept. Agr. Tech. B.* 69, 99 p. Feb. 1949. 7 C16T
- 48705 MARIS, P. V. Bettering our communities through improved living standards on the farm and in the home. Washington? U. S. Farmers Home Admin., 1949. 4 p. 1.95 T25A
- 48706 MEREDITH PUBLISHING COMPANY. America's top farm families: their homes. Des Moines, 1949. 16 p. 252 M54A
- 48707 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Guiding family spending. U. S. D. A. Misc. P. 661, 26 p. Mar. 1949. 1 Ag84M

## FARM MANAGEMENT AND LAND ECONOMICS

- 48708 ADAMS, R. L., and MCCORKLE, C. O. Farm management survey, Tule Lake area. *Giannini Found. Agr. Econ. Mimeog. Rpt.* 94, 81 p. June 15/Aug. 15, 1948. 281.9 G34M
- 48709 ANDALÓ, G. Share farming and politics. (In Italian.) *Corriere Agr.* 4(3): 1-2. Apr. 13, 1948. 16 C812  
Italy.
- 48710 AYARS, J. S. The Grand Prairie. *Farm Q.* 4: 23-29, 142-143. Spring 1949. 6 F22995  
Farms and farming in the prairies of Illinois.
- 48711 BAUER, M. Die weinbausiedlungen in der Steiermark. *Österr. Weinztg.* 4: 108-109. (Concl.) Mar. 26, 1949. 390.8 Os7  
Wine.
- 48712 BERTUZZI, A. Italian agricultural industrialization. (In Italian.) *Not. Enol. ed Aliment.* 5: 215-216. Nov./Dec. 1948. 16 N847
- 48713 BLASCH, J. Gedanken zur organisation der bäuerlichen wirtschaftsberatung. *Bodenkultur* 2: 129-131. 1948. 19 B635  
Austria.



- 48711 BOTMAN, J. Landbouwbedrijfsleer voor het economisch lager en middelbaar land- en tuinbouwonderwijs [Agricultural theory for the economically lower and medium type farm]. Purmerend, Muusses, 1948. 139 p. 281 B65
- 48715 BULGARIA. MINISTRY OF AGRICULTURE AND FORESTRY. Rationalization of group farming co-operatives in Bulgaria. (In Russian.) *Interagra* 2: 359-362. 1948. 28 In825  
English summary.
- 48716 CAHILL, J. C. My father's farm. *Farm Electrification* 3(2): 14-19. Mar./Apr. 1949. 335.8 F224
- 48717 CHACKO, V. I. South Indian plantation industry, a short survey. *Business Week [Madras] Planting Sup.* 1948: 3-6. Aug. 21, 1948. 281.182 B96
- 48718 CLELAND, S. B. Specialization in farming helps to increase efficiency. *Midland Coop.* 16(29): 3. Mar. 23, 1949. 280.28 M58
- 48719 CONKLIN, H. E. Differences in employment and farming among the land classes in Chemung and Monroe Counties. *N. Y. Agr. Col. Farm Econ.* 167: 4331-4335. Mar. 1949. 280.8 C812
- 48720 COOPER, M. R. Getting started in farming. *U. S. D. A. Farmers' B.* 1961, slightly rev., 34 p. Jan. 1949. 1 Ag84F
- 48721 CRAM, J. S. The challenge of farming [in Canada]. *Macdonald Col. J.* 9(6): 8, 10. Feb. 1949. 101 M144
- 48722 DAVIES, J. M. Farm management. *Young Farmer* 17: 67-68. Mar./Apr. 1949. 10 Y82
- 48723 DINSDALE, D. H. Farm management survey report 1947-48. *King's Col. Farm Econ. Br. Rpt. FMS.* 31, 36 p. 1948? 281.9 K61R
- 48724 DOANE, D. H. Adjusting farm operations to a down trend in farm prices. *Better Farming Methods* 21(5): 16. May 1949. 58.8 B46
- 48725 FENGER, P., RASMUSSEN, K., and BRENDSTRUP, S. Grain contra cows and swine. (In Danish.) *Dansk Landbr.* 68: 86-88. Feb. 17, 1949. 280.28 V91
- 48726 FENNELL, T. A. Agricultural diversification—a promise for the Tropics. (In Portuguese.) *Fazenda* 44(3): 34-35, 55. Mar. 1949. 6 H11P
- 48727 GARCIA DE OTEYZA, L. Granjas agrícolas cultivadas por los peñados. Trascendente tarea del Ministerio de Justicia. *Siembra* 1948(12): 13-16. Dec. 1948. 15 S11
- 48728 GIBERTI, H. C. E. The problem of marginal farming areas; a survey of one of Argentina's great difficulties. *Rev. River Plate* 105(2988): 14-17, 19. Mar. 18, 1949. 286.8 R32
- 48729 GRIFFITHS, J. D. El cultivo de tierras marginales o secundarias. *Res* 17: 23379-23380. Mar. 5, 1949. 286.85 R31
- 48730 HORTON, D. C. Adaptation of the farm capital structure to uncertainty. *J. Farm Econ.* 31: 76-100. Feb. 1949. 280.8 J822
- 48731 JENSEN, E. Comparison of social importance of small and large farms. (In Danish.) *Dansk Landbr.* 68: 119-121. Mar. 3, 1949. 280.28 V91
- 48732 JETER, F. H. Expand as you learn say Person [County] farmers. *Better Crops with Plant Food* 33(3): 12, 42-43. Mar. 1949. 6 B46  
North Carolina.
- 48733 JOYAL, A. E. Education has a stake in the western-lands problem. *Natl. Ed. Assoc. U. S. NEA J.* 38: 262-263. Apr. 1949. 275.9 N21J
- 48734 KOGAN, P. M. Contract relationship of machine-tractor stations and collective farms. (In Russian.) *Tekhsociety MTS* 9(21): 1-6. 1948. 58.8 T233
- 48735 LAIPPLE, E. Betriebswirtschaftliche Gedanken zur Milchproduktion. *Württemb. Wchnbl. f. Landw.* 116(1): 5-6. Jan. 1, 1949. 18 W96  
Dairy farm management.
- 48736 LIPPMANN, K. Beratungserfolg ohne aufwand. *Landw. Wchnbl. f. Westfalen u. Lippe* 106: 221. Mar. 19, 1949. 18 L2346
- 48737 MCMILLAN, R. T. A study of farms in Oklahoma by size and economic class. *Okl. Agr. Expt. Sta. B. B-330*, 11 p. Feb. 1949. 100 Ok4
- 48738 MCNULTY, G. Shared income keeps 'em down on the farm. *Idaho Farmer* 67: 195, 219. Mar. 17, 1949. 6 G282  
Father-and-son farming operations.
- 48739 MANSFELD, E. S. A woman farmer relates trying events of an average day—reveals a strong love for her farm animals. *Pa. Coop Rev.* 16(5): 27-28. Apr. 1949. 280.28 P38
- 48740 MIÈGE, E. Données agronomiques, biologiques et psychologiques de la modernisation agricole. *B. d'Inform. du Maroc* 1948: 45-49. Feb. 28, 1949. 280.9 M82
- 48741 MINKOV, M. Reconstruction of Bulgarian agriculture through cooperative group farming. (In Russian.) *Interagra* 2: 362-366. 1948. 28 In825  
English summary.
- 48742 MONTELL, E. W. Knowledge for the grower—transmit it thru the field man. *Canner* 108(15): 22-23. Apr. 9, 1949. 286.83 C16
- 48743 MONTPELLIER, J. La ferme modèle "Villa Grand-Coteau." *B. des Agr.* 45(4): 18-19, 77. Apr. 1949. 7 B872
- 48744 MOURIDSEN, C. A. I. V. A visit to Professor A. I. Virtanen's farm. (In Danish.) *Dansk Landbr.* 68: 89-90. Feb. 17, 1949. 280.28 V91
- 48745 NEEL, L. G. Should more people grow broilers? *Poultry Tribune* 55(1): 11, 37-40. Jan. 1949. 47.8 P8644  
Farm management.
- 48746 NEUMEISTER. Auch flüchtlingsproblem: Lassen sich andere wirtschaftsarten auf das Allgäu übertragen? *Allgäuer Bauernbl.* 17: 86-87. Feb. 18, 1949. 18 AL53
- 48747 NIAGARA COUNTY AGRICULTURAL CONSERVATION ASSOCIATION. The 1949 Niagara County agricultural conservation program. 1949. 32 p. 281.9 N51
- 48748 NOILHAN, H. Techniques industrielles et techniques agricoles. *Acad. d'Agr. de France* 35: 77-78. Jan. 19/26, 1949. 14 P215Bc
- 48749 NORGES LANDBRUKSØKONOMISKE INSTITUT. Management studies in agriculture, 39, 1946/47. (In Norwegian.) *Halden*, 1948. 142 p. 11 N762  
Summary and table of contents in English.
- 48750 OKA. INSTITUT AGRICOLE. Cours d'agriculture. Ed. 3. La Trappe, Qué., 1948. v. 1, 715 p. 30.2 Ok1
- 48751 OSGOOD, O. T. Results of two sampling methods used in farm management research. *J. Farm Econ.* 31: 157-168. Feb. 1949. 280.8 J822
- 48752 PARKINSON, F. M. Seeing is believing. *Agr. Ed. Mag.* 21: 228. Apr. 1949. 275.8 Ag8  
Farming programs.
- 48753 PARSONS, E. D. Farming in Yucatan. 4. *Farmer [St. Paul]*, Gen. Ed. 67(6): 36, 37, 39. Mar. 19, 1949. 6 F2211
- 48754 PERTICARÁ, G. Some aspects of agriculture in Padua during the war 1940-45, with particular reference to share farming. (In Italian.) *Agr. delle Venezie* 2: 1006-1014. (To be cont.) Nov./Dec. 1948. 16 Ag826
- 48755 PUERTO RICO. LAND AUTHORITY. Informe, Report, 1946/47. 1948? 33, 28 p. 282.29 P96  
Text in Spanish and English.
- 48756 RICE, C. T. Grassland farming and machinery can increase dairy farm earnings. *Dairy World* 27(10): 8-13. Mar. 1949. 44.8 D1423
- 48757 RODRÍGUEZ ADAME, J. La industrialización de la agricultura en México. *Rev. de Econ.* 12: 122-126. Apr. 15, 1949. 280.8 R3293
- 48758 SABATIER, E. Mais alors, pourquoi nous astu quittés? *Vaucluse Agr.* 5(86): 1. Mar. 1, 1949. 14 V26  
Farming as an occupation.
- 48759 SELSKAPET FOR NORGES VEL. Report on the management of Apelsvoll Experimental Farm for 1948. (In Norwegian.) *Tidsskr. for det Norske Landbr.* 55: 313-320. Nov./Dec. 1948. 11 T433
- 48760 SHOFFNER, R. W., and others. North Carolina farming guide. *N. C. Agr. Col. Ext. C.* 263, rev., 46 p. Apr. 1948. 275.29 N811  
H. B. James, C. B. Ratchford, and M. S. Williams, joint authors.
- 48761 SHUL'PIN, I. M. Opyt kolkhoza imeni Kirova Gor'kovskoi oblasti [Practices of Kirov collective farm in Gor'kii region]. Moskva, Sel'khozgiz, 1948. 31 p. (Organizatsiya Truda v Kolkhozakh) 283 Sh9
- 48762 SIMS, A. J. Up, up, up; Tennessee farms get better and better. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 64(4): 19. Apr. 1949. 6 P945K
- 48763 SMITH, A. K. Notes on oriental farming practices. I. China. *Soybean Digest* 9(4): 15-17. (To be cont.) Feb. 1949. 60.38 So9



48764 SMITH, C. S. His lands in order. *Farmers Weekly* [London] 30(12): 44-47, 49, 51. Mar. 25, 1949. 10 F2226

Rehabilitation of a hill-farming estate in England with the help of the Hill Farming Act.

48765 STEDEN, A. Betriebsformen und Betriebsergebnisse der niederösterreichischen Landwirtschaft im vergleichsjahr 1937. *Bodenkultur* 2: 239-258. 1948. 19 B635

48766 STYSKAL, J. J. Farmer with a plan. *Nebr. Farmer* 91(6): 5. Mar. 19, 1949. 6 N27

Farm management.

48767 SWEDEN. DOMÄNSTYRELSEN. The Domain Office, 1947. (In Swedish.) Stockholm, 1949. 118 p. 99.9 Sw33

48768 THORFINNSEN, T. S., and EPP, A. W. Systems of farming for the Tri-County Irrigation area in Nebraska. *Nebr. Agr. Expt. Sta. B.* 393, 52 p. Jan. 1949. 100 N27

48769 U. S. BUR. OF LAND MANAGEMENT. Vacant public lands; area by states and other information. Washington, 1949. 4 p. 156.56 V13V

48770 VALDEYRON, G. Apport possible de l'Amérique à la technique agricole tunisienne. *Tunisie Agr.* 50: 15-20. Jan. 1949. 24 T832

48771 VAN HIMBEECK, C. La ferme de l'avenir. 4. *Rev. de l'Agr.* 2: 32-57. Jan. 1949. 13 R322

48772 VINGGAARD, M. A. Small and large farms. (In Danish.) *Dansk Landbr.* 68: 106-107. Feb. 24, 1949. 280.28 V91

48773 VOITSEKHOVSKIĬ, P. Progressive agricultural technique in Soviet farming. (In Russian.) *Inter-agra* 2: 280-283. 1948. 28 In825

English summary.

48774 WAGNER, M. L. The man with the plow. *Town & Country Church* 53: 5-6. May 1949. 281.28 T66

48775 WANG, T. C. The Soviet collective farm system and the possibilities of its application in China. (In Chinese.) *J. Agr. Econ.* 1(3): 52-57. June 1948. 281.8 J822

48776 WEST, R. Missouri recognizes good management. *Nation's Agr.* 24(4): 4, 20. Apr. 1949. 280.82 B89

48777 WESTGAARD, P. Rationalization of cattle raising. (In Norwegian.) *Norsk Landbr.* 15: 101-103. Mar. 18, 1949. 11 N8122

48778 WIKSTROM, J. City man on a farm. *New York, Expo. Press*, 1949. 101 p. 31.3 W642

48779 WISCONSIN. COMMISSIONERS OF THE PUBLIC LANDS. Biennial report 1946/48. 1948. 21 p. 282.9 W752

48780 WU, S. H. Stages of farm management. (In Chinese.) *Monthly Farmers' Bank China* 9(7): 9-21. Ref. July 1948. 281.9 F225M

English summary.

#### Bookkeeping and Records

48781 HOPKINS, J. A., and HEADY, E. O. Farm records. Ed. 3. Ames, Iowa State Col. Press, 1949. 303 p. 30.6 H77F

48782 RANNEY, W. P. Discussion: "A New System of Farm Accounting." *J. Farm Econ.* 31: 153-156. Feb. 1949. 280.8 J822

#### Costs and Returns

48783 ANDERSON, W. R., and others. Factors influencing yield and cost of maple syrup. *Farm & Home Res.* [Ohio Sta.] 34(256): 10-11. Jan./Feb. 1949. 100 Oh3S

J. S. Ball, H. R. Moore, and R. Baker, joint authors.

48784 BRATTON, C. A. Costs and returns in growing potatoes, 6 Wyoming County farms, 1948. *N. Y. Agr. Col. A. E.* 700, 10 p. Mar. 1949. 281.9 C81

48785 BRIZI, A. Prices of products, production costs, and returns from labor in Swiss agriculture. (In Italian.) *Riv. di Econ. Agr.* 3: 605-612. 1948. 281.8 R52

English summary.

48786 DOWNEN, M. L. Seasonal costs of producing and marketing fluid milk in Rutherford County, Tennessee, 1947-48. *Tenn. Agr. Expt. Sta. Rur. Res. Ser. Monog.* 242, 46 p. Ref. Apr. 1, 1949. 173.2 W89Co

48787 FAUSEL, W. Auf dem wege zur herstellung der rentabilität des zuckerrübenanbaus. *Württemb. Wchnbl. f. Landw.* 116: 109. Feb. 26, 1949. 18 W96

48788 FEVRIER, R. Produits du porc de qualité que l'on vendra à bon prix en France et à l'étranger. *J. de la France Agr.* 5: 161-162. Apr. 1/7, 1949. 14 J829

Costs and returns.

48789 FOURNY, L. La plantation orangère dans le Souss. *Inform. Maroc.* 410: 1, 3. (Cont.) Nov. 20, 1948. 281.8 In3

Costs and returns.

48790 HOW, R. B., and HÜNI, A. Summary of receipts and expenses in Swiss agriculture, 1901-47. *N. Y. Agr. Col. Farm Econ.* 167: 4319-4321. Mar. 1949. 280.8 C812

48791 HUANG, S. C. An analysis of the law of diminishing returns. (In Chinese.) *J. Agr. Econ.* 1(3): 30-43. June 1948. 281.8 J822

48792 KNOX, R. G. Profit from problem acres; how can our marginal lands be farmed to make their maximum contribution to our total live stock production? *Farmer's Mag.* 46(3): 10, 64-65. Mar. 1949. 7 C165

Profit and cost of planting improved pasture mixtures on rough land.

48793 LEEDS. UNIVERSITY. DEPT. OF AGRICULTURE. ECONOMICS SECTION. Milk production costs in Yorkshire 1947-1948. *Leeds U. Farmers' Rpt.* 81, 14 p. Feb. 1949. 281.9 L51

48794 MCARDLE, A. A. Present day production costs in the poultry industry. *Australas. Poultry World* 20(6): 15. Jan. 1, 1949. 47.8 Au72

48795 MCCLAIN, E. B. What every milk dealer should know—cost of doing business today. *Milk Dealer* 38(7): 70-72, 74. Apr. 1949. 44.8 M595

48796 MCDANIEL, W. E., VANVIG, A., and NODLAND, T. R. The financial resources and earnings of beginning farmers. *Minn. U. Div. Agr. Econ. Mimeog. Rpt.* 173, 16 p. Mar. 1949. 281.9 M66

48797 MORRIS, S. T., and TYERS, K. G. General report on the investigation into the economics of milk production in Cornwall, Devon and Dorset, 1947-48. *Bristol U. Dept. Econ. Farmers Rpt.* 55, 29 p. Feb. 1949. 281.9 Se1

48798 MURPHY, R. G., and HOFF, P. R. Potato irrigation costs and practices in Suffolk County, New York 1946. *N. Y. Agr. Col. A. E.* 691, 27 p. Mar. 1949. 281.9 C81

Prepared from a thesis by R. N. Hampton.

48799 NEW YORK STATE COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. Individual factors and annual averages from farm cost accounts, 52 farms—1945. *N. Y. Agr. Col. A. E.* 677, 33 p. Dec. 1948. 281.9 C81

48800 NORTH, M. O. The A B C's of profitable broiler production. *U. S. Egg & Poultry Mag.* 55(4): 16-17, 24, 26. Apr. 1949. 286.85 Eg3

48801 NUNN, A. A "two-horse" tractor farm. *Prog. Farmer, Ga.-Ala.-Fla. Ed.* 64(3): 16. Mar. 1949. 6 P945G

Cost of mechanized cotton production on a small farm.

48802 ROCHMANN, R. Cost of producing furs in 1948. (In Norwegian.) *Norsk Pelsdyrbld.* 23: 54-56. Mar. 5, 1949. 412.628 N812

48803 SAMPIER, J. Feeding choice calves returns margin of \$12. *Natl. Live Stock Prod.* 27(7): 11. Apr. 1949. 280.28 N21

48804 SAMUELS, J. K., and others. Cost of handling Florida and Texas citrus fruits in fresh and processed form, 1946-47 season. *Fla. Agr. Expt. Sta. Spec. Rpt.*, 17 p. Aug. 10, 1948. 93.33 F663C

K. A. Fugett, H. W. Little, and H. G. Hamilton, joint authors.

48805 SELTZER, R. E. Bulk-handling [costs] compared with the use of field boxes in the harvesting of desert grapefruit. *Ariz. Agr. Expt. Sta. Rpt.* 89, 7 p. Mar. 1949. 100 Ar4M

48806 SERPIERI, A. Apropos of rent, interest, and profit. (In Italian.) *Riv. di Econ. Agr.* 3: 597-604. 1948. 281.8 R52

Summary in English.

48807 SERPIERI, A. The cost of production. (In Italian.) *Gaz. Agr. [Parma]* 2(17): 2. Apr. 24, 1948. 16 G255



19908 SOUZA, J. S. I. DE. Production of a small vineyard well formed and well cared-for is quite profitable. (In Portuguese.) Chacaras e Quintais 79: 332-333. Mar. 15, 1949. 9.2 C34  
Gives figures for costs.

19909 SPENCER, L. Two studies of milk distribution costs and profits in the New York market. Milk Dealer 38(7): 50, 132, 134-136, 138, 140-142. Apr. 1949. 44.8 M595

19910 TINDALL, C. Is your flock too small? Mo. Ruralist 90(5): 4, 26-27, 33. Mar. 12, 1949. 6 R8891  
Costs and returns.

19911 U. S. BUR. OF AGRICULTURAL ECONOMICS. The farm cost situation. U. S. Bur. Agr. Econ. FCS-6, 19 p. Mar. 1949. 1.941 F8F222

19912 WILD, E. Made \$11.34 per lamb. Farmer [St. Paul], Gen. Ed. 67(5): 14, 59. Mar. 5, 1949. 6 F2211

19913 WINNER, E. B. Quit foolin' with chickens; you need a big laying flock to make poultry worth the trouble. Capper's Farmer 60(4): 34, 60. Apr. 1949. 6 M693  
Includes costs and returns.

19914 WOODALL, L. Keep your eye on daily costs. U. S. Egg & Poultry Mag. 55(4): 12-13, 23-24. Apr. 1949. 286.85 Eg3  
Poultry.

19915 ZENTRALVERBAND DEUTSCHER RINDERZÜCHTER E. V. Die erzeugungskosten eines nutzrindes. Zentralverband Deut. Rinderzüchter. Arb. 4, 15 p. 1948. 43.9 Z4

19916 ZUCCHINI, M., and RAGAZZI, G. Apropos of an economic study on the Ferrara "versuro." (In Italian.) Genio Rur. 12: 52-63. Jan./Feb. 1949. 281.8 R522  
Costs and returns.

#### Land Settlement and Colonization

19917 a LEMANNI, N. M. Settlement on municipal lands in Lucania. (In Italian.) Riv. di Econ. Agr. 3: 559-596. 1948. 281.8 R52  
English summary.

19918 BERTHAULT, P. Le problème de la colonisation et l'exemple de la cooperative foncière et viticole de Tunisie. Rev. Agr. de l'Afrique du Nord 47: 180-182. Mar. 25, 1949. 80 R326

19919 BLASCHKE, O. Ansiedlung der flüchtlinge. Landw. Informationsdienst 1949: 4. 18 L2312  
Germany.

19920 CARVALHO, H. F. DE. Let us help those who wish to cultivate our uncultivated lands. (In Portuguese.) Pernambuco. Dept. de Asst. às Coop. Rev. 11: 225-228. Sept./Oct. 1948. 280.29 P42

19921 CÉSAR, G. Land and colonization. (In Portuguese.) Pernambuco. Dept. de Asst. às Coop. Rev. 11: 127-129. May/June 1948. 280.29 P42

19922 DOMINGUEZ GARCIA, M. Colonizaciones en Marcha: la gran zona de Montijo. Badajoz. Dip. Provincial. B. Inform. Agr. y Ganad. 6(60): 3-8. Sept. 1948. 15 B14

19923 GONZALEZ MIRAVALLES, A. Colonización de interés local. Congreso Sindical de la Tierra. Temas Econ. 5, 33 p. 1948. 281.176 C764T  
Spain.

19924 LAND SETTLEMENT ASSOCIATION LIMITED. Thirteenth annual report, 1947-48. 1948. 36 p. 282.29 L23A

19925 LEITE, H. Modern cooperative settlement in Goiaz. (In Portuguese.) Cooperativismo [Rio de Janeiro] 3(32): 5. Feb. 1949. 280.28 C7856

19926 LOY, C. Agricultural reclamation and production in Spain. (In Italian.) Sardegna Agr. 27(9): 1-2. Mar. 4, 1949. 16 Sa7  
Chiefly on land settlement policy.

19927 LUZ FILHO, F. Colonization and cooperation. (In Portuguese.) DEACOP, Inform. Coop. 2(8): 26-27. Jan. 1949. 280.28 D34

19928 POTIER BÈS, J. L'Institut National de Colonisation en Espagne. France. Min. de l'Agr. Rev. Études & Monog. 1949: 1-8. Jan. 1949. 281.8 F84

19929 RAPTSCHINSKY, B. Kolonisatie in de U.S.S.R. Tijdschr. v. Econ. en Sociale Geog. 40: 27-34. Jan./Feb. 1949. 280.8 T44

19930 ROMERO DE TEJADA Y CUESTA, A. Traslado de pueblos y su nuevo emplazamiento. Congreso Sindical de la Tierra. Temas Econ. 6, 69 p. 1948. 281.176 C764T  
Spain.

19931 TASMANIA. DEPT. OF AGRICULTURE. War service land settlement: progress report as at October, 1948. 1948. 12 p. 282.29 T18

#### Land Tenure

19932 ALLAM, F. W. Tenant right valuations under part III of the Agriculture Act, 1947. Roy. Inst. Chartered Surveyors. J. 28: 458-466. Mar. 1949. 282.9 C38J

19933 ARRUE ASTIAZARAN, A. Parcelaciones. Congreso Sindical de la Tierra. Temas Econ. 2, 56 p. 1948. 281.176 C764T  
Spain.

19934 BANDIERA, P. The agrarian question as seen by the republican party. (In Italian.) Mezzogiorno Agr. 5(9): 1. Feb. 27, 1949. 16 M57

19935 BERESFORD, M. W. Revisions in economic history. XI. Ridge and furrow and the open fields. Econ. Hist. Rev. (ser. 2) 1: 34-45. 1948. 277.8 Ec7  
Pre-enclosure tenure in England.

19936 BERMEJO, F. En torno a las rentas contratadas. Aliment. Nac. 6(134): 2. Dec. 25, 1948. 389.8 AL42  
Spain.

19937 BERNARD, P. Réflexion d'un simple terrien sur les expropriations. Monit. Agr. 2(60): 2. Mar. 6, 1949. 14 M744  
France.

19938 BERRY, R. L. Maintaining farm ownership by father-son farm transfers. Kans. Agr. Expt. Sta. Agr. Econ. Rpt. 37, 20 p. Mar. 1949. 281.9 K132

19939 BERTRAND, P. La question des loyers agricoles chez les maraîchers de la Seine. B. Agr. de la Seine 5(83): 1-2. Apr. 5, 1949. 14 B876

19940 BOLDINI, C. Evolutions and orientations in the agrarian reform. (In Italian.) Agr. Trevisano 4(15): 1. Sept. 1948. 16 Ag8258

19941 CANO, E. A. Condonación y reducción de rentas por pérdida de cosechas. Murcia, Spain. Cám. Ofic. Agr. B. 75: 6-8. Jan. 1949. 15 M93

19942 CECCARANI, L. Agrarian reform. (In Italian.) Agricoltore [Perugia] 5(21): 1. Nov. 15, 1948. 281.8 Ag822  
Italy.

19943 CECCARANI, L. The agrarian reform considered from the point of view of the reformers and of the farmers. (In Italian.) Agricoltore [Perugia] 6(5): 1. Mar. 15, 1949. 281.8 Ag822

19944 CECCARANI, L. The agrarian reform: social duty of property in the interests of agricultural production. (In Italian.) Agricoltore [Perugia] 6(2): 1. Jan. 30, 1949. 281.8 Ag822  
Italian share farming contracts.

19945 CERRILLO Y QUILER, F. La sucesión en el arrendamiento. Agricultura [Madrid] 18: 67-68. Feb. 1949. 15 Ag84

19946 CHINI, A. Quo vadis—with 53 percent? (In Italian.) Gior. di Agr. 59: 62. Feb. 20, 1949. 16 It1G  
Share farming contract reform.

19947 CHIOCCI, A. Reform of agrarian contracts and emigration. (In Italian.) Agricoltore [Perugia] 6(6): 1. Mar. 30, 1949. 281.8 Ag822

19948 DEITEMEYER, C. Good tenant-landlord relationship makes horse sense. Nebr. Farmer 91(5): 1, 54, 66. Mar. 5, 1949. 6 N27

19949 DONADONI, B. Agrarian contract of association in participation with ownership. (In Italian.) B. dell'Agr. 83: 1. Jan. 14, 1949. 16 B87  
Italy.

19950 FELICE, P. DE. Le droit rural: conséquences de la loi du 31 décembre 1948 sur les fermages. Bouches du Rhone Agr. 22(999): 23. Apr. 1, 1949. 14 B662

19951 FILENI, E. On agrarian contracts; leases. IV. (In Italian.) Mezzogiorno Agr. 5(8): 1-2. Feb. 20, 1948. 16 M57

19952 GEDDES, A. Conjoint-tenants and tacksman in the Isle of Lewis, 1715-26. Econ. Hist. Rev. (ser. 2) 1: 54-60. 1948. 277.8 Ec7

19953 GIANNATTASIO, C. Orientation of jurisprudence in share farming contracts. (In Italian.) Georgofili [Firenze] (ser. 6) 12: 136-147. Jan./June 1948. 507 F51

19954 GIBSON, T. The conquest of the land in China. Countryman [Burford] 39: 99-102. Spring 1949. 281.28 C832



48855 GIMENO, J. M. Acceso a la propiedad. Congreso Sindical de la Tierra. Temas Econ. 8, 45 p. 1948. 281.176 C764T

Land reform in Spain.

48856 GIMENO, J. M. Arrendamientos rústicos. Congreso Sindical de la Tierra. Temas Econ. 1, 59 p. 1948. 281.176 C764T

48857 GRASSBERGER, K. Höferecht. Salzburger Bauer 4(8): 3-4. (Concl.) Feb. 24, 1949. 19 Sa3

48858 GRIESSNER, I. Agrarreform und die forderungen der bergbauern. Allg. Bauern-Ztg. 4(11): 1-2. Mar. 12, 1949. 281.8 AL5  
Austria.

48859 GUALAZZI, A. The reform and the technicians. (In Italian.) Bologna Agr. 2(8): 1. Feb. 19, 1949. 16 B634

Share farming contracts.

48860 GUILBAUD, J. La nouvelle réglementation du prix des fermages; les arrêtés préfectoraux illégaux. Terre 232: 3. Mar. 24/30, 1949. 281.8 T27  
France.

48861 HEROLD, G. Fragen des nachbarrechtes. Kurzbrieft f. Ernähr. u. Landw. 12, E II 3, 4 p. (Concl.) Dec. 1948. 281.8 K96  
Germany.

48862 IBACH, D. B. Recovering the investment in limestone with particular reference to reimbursement of vacating tenants. J. Farm Econ. 31: 116-130. Feb. 1949. 280.8 J822

48863 IRACI, A. Let us come to a stop on the Segni project. (In Italian.) Agricoltore [Perugia] 6(2): 1. Jan. 30, 1949. 281.8 Ag822

Share farming contract reform.

48864 KAZANTSEV, N. D. Legislative principles of land relations in U. S. S. R. (In Russian.) Akad. Nauk SSSR. Otd. Ekon. i Prava. Izv. 1948: 321-333. Sept./Oct. 1948. 280.9 Ak1

48865 LARSEN, E. The most important land law in the last 30 years. (In Danish.) Tolvmandsbladet 21: 43-58. Feb. 1949. 11 T58

48866 LE GOFF, L. Un problème capital pour l'agriculture: le remembrement. Avenir Paysan de la Haute-Marne 5(83): 1; (84): 1. Feb. 18-Mar. 4, 1949. 14 Av3

48867 MARZANI, A. Land reform and livestock production. (In Italian.) Allevatore 5(7): 1. Feb. 13, 1949. 49 AL55

48868 MASÉ-DARI, E. The bill on the reform of agrarian contracts. (In Italian.) Riv. di Polit. Econ. (ser. 3) 39: 27-39. Jan. 1949. 280.8 R52

Share farming contracts.

48869 MAYRHOFER, W. Das geltende österreichische grundverkehrsrecht; die erhaltung des bäuerlichen besitzums. Kärntner Bauer 99: 90-92. Mar. 15, 1949. 19 K14

48870 MEDICI, G. The distribution of privately owned lands in Italy. (In Italian.) Riv. di Econ. Agr. 3: 491-513. 1948. 281.8 R52  
English summary.

48871 MESIRCA, B. The 3% forfeit on value of beef and horsemeat produced for application of the "Share-farming Truce" in Treviso Province during the 1946-47 crop year. (In Italian.) Agr. Trevisano 4(15): 2. Sept. 1948. 16 Ag8258

48872 MESSEAGER, R. Le régime successoral de la propriété familiale: maintien de l'indivision et attribution de l'exploitation agricole à un seul héritier. Acclimatation 76: 43. Feb. 19, 1949. 14 Ac2  
France.

48873 MONTANARI, V. Present technical-economic conditions of agriculture in Venetia as a basis for land reform. (In Italian.) Agr. delle Venezie 2: 959-985. Nov./Dec. 1948. 16 Ag826

48874 MORRIS, F. C. Your land: surveys, maps and titles. Va. Polytech. Inst., Engin. Expt. Sta. B. 71, 95 p. 1949. 290.9 V812

48875 OURLIAC, P. Le statut du fermage devant la cour de cassation. Terre d'Oc 31: 12-15. Jan. 1949. 14 Ar5

48876 PELLIZZARI, C. New forms of agrarian contract. II. (In Italian.) Agr. Bresicana 2(7): 1. Feb. 16, 1949. 16 Ag89

Share farming leases.

48877 RAMA RAO, D. V. Land reforms. Baroda, Padmaja, 1948. 42 p. 282.182 R14

48878 RAMAKRISHNAN, K. C. Agrarian reforms; tenancy problem. Madras Agr. J. 36: 40-48. Jan. 1949. 22 M262

48879 REINEKE. Der einfluss des neuen erbschaftssteuerrechts auf testamente. Landw. Wchnbl. f. Westfalen u. Lippe 106: 196. Mar. 12, 1949. 18 L2346

48880 SERPIERI, A. The agrarian reform understood as a selective movement. (In Italian.) Ital. Agr. 86: 79-83. Feb./Mar. 1949. 16 It1G

48881 SIEVERT, H. H. Der verkehr mit land- und forstwirtschaftlichen grundstücken. Bad. Landw. Wchnbl. 116: 22. (Concl.) Jan. 15, 1949. 18 B142

48882 TAMIL NAD CONGRESS COMMITTEE, DEPT. OF SOCIAL AND ECONOMIC STUDIES. Economic & maximum holdings: outline of a policy for redistribution of land. Tamil Nad. Cong. Com. Dept. Social and Econ. Studies. Monthly Let. 1948: 4-17. Oct. 1948. 280.9 T152

48883 THIAGO, A. S. Soil and the social factor. (In Portuguese.) DEACOP, Inform. Coop. 2(8): 36-40. Jan. 1949. 280.28 D34

Brazilian population and land tenure relationships.

48884 THOMAS, E. Britain tackles her land tenure problems. Farm Policy Forum 2(2): 67-71. Apr. 1949. 281.8 F7224

48885 TRILLO, E. Everlastingly the theme on reform of agricultural contracts. (In Italian.) Agricoltore [Perugia] 5(23): 1. Dec. 15, 1948. 281.8 Ag822

48886 VIANA, M. Miracles and agrarian reform. (In Italian.) Cron. Econ. 54: 3. Mar. 20, 1949. 280.9 C882  
Italy.

48887 VIERI, F. Region and agrarian reform. (In Italian.) Terra [Firenze] 60(10): 1. Mar. 6, 1949. 16 T274

48888 VIERI, F. Tu quoque—. (In Italian.) Terra [Firenze] 60(9): 1. Feb. 27, 1949. 16 T274

Share farming contract reforms.

48889 WATSON, D. Let's talk about farm leases. Iowa Agriculturist 47(8): 10-11. Mar. 1949. 6 Io9

48890 WYNNE-EDWARDS, J. C. Landowners' responsibilities; present conditions have increased opportunities for leadership. Field 193: 318-319. Mar. 19, 1949. 10 F45

#### Land Utilization

48891 CHEN, C. S. Land utilization in New Zealand. (In Chinese.) Cent. Bank Monthly 3(12): 29-46. Dec. 1948. 280.9 C335

48892 CORNELL UNIVERSITY. A preliminary report on developments in land classification methods. Ithaca, 1948? 75 p. 282 C813

48893 DARBY, B. T. We are fast losing our land. Farmer & Stock-Breeder 63: 648-649. Mar. 15, 1949. 10 F228

Farm land in Great Britain passing out of agricultural use.

48894 ELLISON, W. The reclamation and use of marginal land. Land Agents' Rec. 124: 829. (To be cont.) Mar. 28, 1949. 10 L222

48895 ELLISON, W. 250,000 stores from the hills. Farmer & Stock-Breeder 58: 717. Mar. 22, 1949. 10 F228

Reseeding marginal land in England and Wales to maintain sheep and cattle.

48896 EVE, J. D. T. The Town and Country Planning Act, 1947: development charges. Roy. Inst. Chartered Surveyors. Trans. 81: 103-122. 1949. 282.9 C38J

48897 IOWA DEPT. OF AGRICULTURE. A graphic summary of Iowa land utilization. Iowa Dept. Agr. B. 92.7, 24 p. 1949. 2 Io9B

48898 KASCH, W. Umwandlung von waldboden in ackerboden. Forstw., Holzw. 2: 78-79. Mar. 1/15, 1948. 99.8 F7793  
Germany.

48899 KNIELY, A. Wald und weide. Salzburger Bauer 4(4): 3-5. Jan. 27, 1949. 19 Sa3

Land use.

48900 MARCANTONIO, C. Let us preserve the irri-gable lands for agriculture. (In Italian.) Gior. d'Ital. Agr. 32(9): 1. Feb. 26, 1949. 16 G433

48901 MUSGRAVE, G. W. Note on land use in Holland. J. Soil & Water Conserv. 4: 27-30. Jan. 1949. 56.8 J822



- 48902 PATTESON, G. W., HARRIS, A. J., and FULTON, Z. M. K., JR. Economic land classification of Richmond County. Va. Agr. Expt. Sta. B. 418, 12 p. Jan. 1949. 100 V81S
- 48903 SHPIRGANZL', Ā. Agro-pedological design; aid to planning in Czechoslovakia. (In Russian.) *Inter-agra* 2: 368-373. 1948. 28 In825  
English summary.  
Surveying land utilization.
- 48904 SOIL CONSERVATION SOCIETY OF AMERICA. National land policy. *Iowa Conserv.* 8: 113, 120. Mar. 15, 1949. 279 Io92
- 48905 STUTT, R. A. An economic classification of land in the Elrose-Rosetown-Conquest area, 1944. Ottawa, Canada. Dept. of Agr., 1948. 38 p. 282.137 St9
- 48906 WALLER, A. G., and others. If not potatoes—what? *N. J. Agr. Expt. Sta. C.* 523, 7 p. Feb. 1949. 100 N46S  
C. S. Garrison, O. R. Neal, W. C. Skelley, J. C. Campbell, and O. G. Bowen, joint authors.  
Land utilization in New Jersey.
- 48907 WOOTEN, H. H., and LEE, A. T. M. Costly development needed for most potential farm land. *Cargill Crop B.* 24(3): 24-25. Mar. 25, 1949. 281.8 C19

## Land Values and Valuation

- 48908 HALLIWELL, A. N. How much can I pay for that farm? *Tasmanian Farmer* 1949: 4-5. Jan. 1949. 23 T186  
How to assess value.  
Similar title in *Tasmanian Fruitgrower & Farmer* 25 (306): 34-35. Jan. 1949. 23 T185
- 48909 HANSEN, J. J. Observations on the conception land value and land taxes. (In Danish.) *Dansk Landbr.* 68: 83-86. Feb. 17, 1949. 280.28 V91
- 48910 MOORE, H. R. Buildings and improvements influence farm real estate prices. *Farm & Home Res. [Ohio Sta.]* 34 (256): 28-30. Jan./Feb. 1949. 100 Oh3S
- 48911 NEUKOMM, and others. Eine einfache methode zur schätzung des pachtzinses landwirtschaftlicher liegenschaften. *Grüne* 77: 171-176. Feb. 18, 1949. 17 Sch9  
E. Tschumi, H. Baumgartner, and E. Straub, joint authors.
- 48912 NYBROTEN, N. Summary of some techniques and results of land-value research. (Abs.) *Northwest Sci.* 22: 39-40. Feb. 1948. 470 N81
- 48913 RIDDELL, G. E. Land is 'dear' in Italy. *Food & Agr.* 1: 7-11. Jan./Mar. 1949. 389.8 F7326
- 48914 STEWART, C. L. Bullish and bearish factors in land prices. (Abs.) *Ill. Farm Econ.* 164/165: 783-788. Jan./Feb. 1949. 275.28 IL5
- 48915 U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm real estate activity in twelve Western counties, by O. C. Fuqua and K. S. Landstrom. Washington, 1949. 16 p. - 1.941 L8F224

## POPULATION

- 48916 ELDRIDGE, H. T. Needed population data for agricultural and rural analysis. *Rur. Sociol.* 14: 63-68. Mar. 1949. 281.28 R88
- 48917 HUDA, M. N. Agriculture in eastern Pakistan, the man-land ratio. *N. Y. Agr. Col. Farm Econ.* 167: 4313-4314. Mar. 1949. 280.8 C812
- 48918 LOURENÇO, J. The man of the field. (In Portuguese.) *Pernambuco. Dept. de Asst. às Coop. Rev.* 11: 154-156. July/Aug. 1948. 280.29 P42
- 48919 MORAES, O. A. DE. Urban-rural population. *Estatística* 1948: 390-392. Sept. 1948. 251.8 Es8  
Summary in Spanish.
- 48920 NEW ZEALAND. CENSUS AND STATISTICS DEPT. Population census, 1945. 1948. 26 p. 271.2 C33C  
Includes population engaged in agriculture.
- 48921 SMITH, H. E. Changing trends in our rural society. *Purdue U. Agr. Ext. Econ. & Mktg. Inform. Ind. Farmers* 1949: 6-7. Mar. 23, 1949. 275.29 In2Em  
Migration in Indiana.
- 48922 SMITH, T. L. The population problems of the tropics. *U. S. Dept. State. Internatl. Organ. & Conf. Ser.* I. Gen. 5: 1530-1540. 1948. 150 In822

- 48923 SORBI, U. Emigration. (In Italian.) *Terra [Firenze]* 60(12): 1. Mar. 20, 1949. 16 T274

- 48924 WU, W. H. A comparative study in basic combinations of Chinese rural population. (In Chinese.) *J. Agr. Econ.* 1(3): 44-51. June 1948. 281.8 J822

## RURAL SOCIAL ORGANIZATION

- 48925 ALEXANDER, F. D., and NELSON, L. Rural social organization, Goodhue County. *Minn. Agr. Expt. Sta. B.* 401, 85 p. Feb. 1949. 100 M66
- 48926 APARISI MOCHOLI, A. Acción asistencial en los medios rurales. *Congreso Sindical de la Tierra. Temas Econ.* 11, 48 p. 1948. 281.176 C764T  
Spain.
- 48927 BONJEAN, A. La Mutualité Agricole demande un programme social d'urgence. *Libération Paysanne* 5(203): 6. Feb. 17, 1949. 14 L61  
France.
- 48928 GILLETTE, J. M. Crop response as a testing ground for geo-cultural regionalism. *Rur. Sociol.* 14: 51-58. Mar. 1949. 281.28 R88
- 48929 GILLIS, A. Needed. A new attitude towards rural living. *Marit. Co-op.* 17(7): 2, 6, 8. Apr. 15, 1949. 280.28 M33
- 48930 HOFFMAN, O. F. Cultural changes in a rural Wisconsin ethnic island. *Rur. Sociol.* 14: 39-50. Mar. 1949. 281.28 R88
- 48931 JOHNSON, P. C. Yes, farm living should be fun. *Prairie Farmer, Gen. Ed.* 121(6): 1, 6. Mar. 19, 1949. 6 P883
- 48932 KUDVA, V. N. Rural social work and reconstruction—panchayat organisation. *Madras J. Co-op.* 40: 348-358. Feb. 1949. 280.28 M26
- 48933 KUTISH, F. A. Do you want to live in the country? *Christian Farmer [Des Moines]* 2(6): 6-7. Mar. 1949. 6 C462
- 48934 MILHAU, J. Structure sociale du monde agricole. *Fiches Rurales (Etudes)* 44, 4 p. Feb. 1949. 281.8 F44
- 48935 NATIONAL COUNCIL OF SOCIAL SERVICE. Focus on social work; the annual report, 1947-48. 1948. 63 p. 280.9 N2198A  
Includes work of the Rural Department of the National Council of Social Service.
- 48936 ROBINSON, H. C. S. The significance of sociology as an aspect of Australian educational improvement. *Rur. Sociol.* 14: 20-29. Mar. 1949. 281.28 R88
- 48937 SAMPAIO, D. Aspects of rural life in the interior of the country [Brazil]. (In Portuguese.) *Pernambuco. Dept. de Asst. às Coop. Rev.* 11: 222-224. Sept./Oct. 1948. 280.29 P42
- 48938 SOCIAL work year book, 1949. New York, Russell Sage Found., 1949. 714 p. 280.9 So123  
Rural Social programs, by G. Browning, p. 446-453.
- 48939 U. S. EXTENSION SERV. Some rural trends and what they mean, by E. J. Niederfrank. Washington, 1949. 4 p. 1.913 A2N55

## Human Ecology

- 48940 ANDERSON, A. H., and HILL, R. C. Rural communities and organizations; a study of group life in Ellis County, Kansas. *Kans. Agr. Expt. Sta. C., i. e. Contrib.* 143, 51 p. Mar. 1948. 281.2 K133  
U. S. Bureau of Agricultural Economics cooperating.
- 48941 BONHAM-CARTER, V. Inkpen—a village with a future. *Countryman [Burford]* 39: 124-128. Spring 1949. 281.28 C832
- 48942 GIBSON, G. H. Saginaw Valley planning. n. p., 1948. 6 p. 290 G352
- 48943 GREGORY, C. L. Advanced techniques in the delineation of rural regions. *Rur. Sociol.* 14: 59-63. Mar. 1949. 281.28 R88
- 48944 HARDIN, C. M. A proposal for organizing the Missouri Valley. *Farm Policy Forum* 2(2): 63-65. Apr. 1949. 281.8 F7224
- 48945 MILLER, J. The growing need for CVA; floods erosion, deforestation, and an inadequate power supply all threaten the economy of the Columbia River Basin. *New Repub.* 120(15): 14-16. Apr. 11, 1949. 280.8 N42
- 48946 MOTWANI, T. C. Village uplift in India, an urgent need of the hour. *Poona Agr. Col. Mag.* 39: 59-60. Nov. 1948. 22 P79



48947 OBERGOTTSCHEBER, F. Das grösste dorf  
Oberösterreichs. Oberösterr. Landwirtschaftsztg. 2(8):  
1. Feb. 23, 1949. 19 Ob23

48948 U. S. EXTENSION SERV. A summary of se-  
lected local, State, and national projects on community  
organization and development, by D. E. Lindstrom.  
Washington, 1949. 13 p. 1.913 A2Su68

48949 VERMEULEN, V. Les "villages modèles" de  
la Lulua (1928-1934). Rev. Colon. Belge 4: 37-41.  
Jan. 15, 1949. 110 R324

### Institutions

48950 ACKLEY, C. W. The importance of the individ-  
ual in the rural church. Town & Country Church 53: 8.  
May 1949. 281.28 T66

48951 AITON, E. W. Accent on young men and  
women. Ext. Serv. Rev. 20: 64-65. Apr. 1949.  
1 Ex892Ex

Extension programs for older youth groups.

48952 AKERS, A. Consolidation saved their church.  
Prog. Farmer, Tex. Ed. 64(4): 70. Apr. 1949. 6 T311

48953 ANGERS. ÉCOLE SUPÉRIEURE D'AGRICUL-  
TURE ET DE VITICULTURE. Cinquantenaire. Angers,  
Éditions de l'Ouest, 1948. 38 p. 105.3 An4

48954 ANTUNES, P. C. A. Health and medical  
services for rural populations in Brazil. U. S. Dept.  
State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1452-1458.  
1948. 150 In822

48955 ARGENTINA. DIRECCIÓN GENERAL DE EN-  
SEÑANZA Y FOMENTO AGRÍCOLA. DIRECCIÓN DE  
ENSEÑANZA EXTENSIVA. Instituto Superior del Hogar  
Agrícola. Buenos Aires, 1948. 15 p. 102.5 B63

48956 BANSE, L. B. Les allocations familiales en  
Algérie. Rev. Agr. de l'Afrique du Nord 47: 65-67.  
Feb. 4, 1949. 80 R326

48957 BARDOUX, J. La guerre soviétique contre les  
partis paysans. Unité Paysanne 4(172): 1, 4. Feb. 19,  
1949. 14 Un3

48958 BATH, B. H. S. VAN. Boerenvrijheid [Peasant  
liberty]. Groningen, Wolters, 1948. 32 p. 280.17 B32

48959 BELL, H. G. Have you visited Ontario Agri-  
cultural College? Canad. Gladiolus Soc. Ann. 1949: 115-  
118. 82 C164Q

48960 BENNETT, C. D., and EISEN, E. Films for  
farmers—"Seeing is Believing." Ohio Farm Bur. News  
28(8): 16, 33. Mar. 1949. 6 Oh34

Services of the Farm Film Foundation of Washington,  
D. C.

48961 BICKFORD, R. L., JR. It's spring, let's take  
a field trip. Better Farming Methods 21(5): 18, 54-55.  
May 1949. 58.8 B46

Vocational agriculture.

48962 BICKHAM, B. R. You can write it—can  
farmers read it? Better Farming Methods 21(5): 17, 45.  
May 1949. 58.8 B46

48963 BOERGER, A. Práctica general y especializa-  
ción en la carrera agronómica. Asoc. de Ingen. Agron.  
Rev. 20(82): 35-47. Sept. 1948. 290.9 As73

48964 BONDEN, K. Norway's Agricultural College  
and the instruction in economics. (In Norwegian.)  
Norsk Landbr. 14: 463-464. Dec. 17, 1948. 11 N8122

48965 BREED, C. Music for the countryman.  
Countryman [Burford] 39: 79-81. Spring 1949.  
281.28 C832

48966 BRUNELLI, P. Agricultural technique and  
professional instruction. (In Italian.) Avvenire Agr. 57:  
35. Feb. 1949. 16 Av9

Italy.  
48967 BYRNES, F. C. 75 years of agricultural prog-  
ress, theme of Farm and Home Week, March 22-25.  
Ohio Farm Bur. News 28(8): 8-9. Mar. 1949. 6 Oh34

48968 CHAPMAN, P. W. Veterans' farm training is  
paying dividends. Prog. Farmer, Car.-Va. Ed. 64(4): 19,  
124. Apr. 1949. 6 P945

48969 CILENTO, SIR R. Health and medical services  
for the southwest Pacific. U. S. Dept. State. Internatl.  
Organ. & Conf. Ser. I. Gen. 5: 1469-1475. 1948.  
150 In822

48970 COLOMBIA. UNIVERSIDAD NACIONAL,  
BOGOTÁ. Facultad Nacional de Agronomía, Medellín;  
la enseñanza agrícola. Medellín, 1949. 16 p.  
102.5 C715E

48971 CRILE, L. Some findings from studies of  
farm and home radio programs. U. S. Ext. Serv. C. 457,  
15 p. Feb. 1949. 1.9 Ex892Esc

48972 CULVER, E. T. Healing by the roadside  
[India]. Town & Country Church 53: 6-7. May 1949.  
281.28 T66

48973 DIRECTORY institutional on-farm training.  
Agr. Ed. Mag. 21: 230-231. Apr. 1949. 275.8 Ag8

48974 DISCUSSION sur l'enseignement agricole: rap-  
port d'ensemble. Acad. d'Agr. de France 35: 61-69.  
Jan. 19/26, 1949. 14 P215Bc

48975 DRAKE, E. M. Improve teaching with field  
trips. Agr. Ed. Mag. 21: 226, 235. Apr. 1949.  
275.8 Ag8

48976 EMRICH, D. Museum of the land. Country  
Gent. 119(4): 26-27, 198-202. Apr. 1949. 6 C833

The Farmers Museum in New York State.

48977 FELDKAMP, C. L. Educational exhibits, a  
list of references. U. S. D. A. Libr. Libr. List 45, 4 p.  
Mar. 1949. 1.916 L612

48978 FOX, W. W. Farm management class uses  
farm. Agr. Ed. Mag. 21: 224-225. Apr. 1949.  
275.8 Ag8

48979 GANDY, E. Open your doors; Young people  
need a place to meet. Here's what happened in two Geor-  
gia communities. Prog. Farmer, Ga.-Ala.-Fla. Ed.  
64(4): 30. Apr. 1949. 6 P945G

48980 GEE, C. W. The padre and his parish.  
Hoard's Dairyman 94: 291, 301. Apr. 10, 1949.  
44.8 H65

48981 GIGGI, A. A fundamental canon of our production:  
peasant instruction. (In Italian.) Terra [Firenze] 60(10):  
1-2. Mar. 6, 1949. 16 T274

48982 GOLDBACH-GEISSEL, E. Der lehrer auf dem  
lande. Landfrau 4(3): 17. Mar. 1949. 18 L2337

Germany.

48983 GONZÁLEZ HERNÁNDEZ, M. El radio como  
medio de enseñanza agrícola. Cuba. Min. de Agr. Rev.  
(ser.6) 31(2): 50-53. July/Dec. 1948. 8 Ag88Re

48984 GONZÁLES TAFUR, O. B. "La Riqueza  
Agrícola": notas históricas. Vida Agr. [Lima] 26(302):  
17, 19, 21-22. Jan. 1949. 9.8 V66

A magazine.

48985 GRAY, T. D. Church architects design a  
rural church. Prog. Farmer, Ky.-Tenn.-W. Va. Ed.  
64(4): 130. Apr. 1949. 6 P945K

48986 GUZMAN, A. Tejareños del 900. Rev. de  
Agr. [San José] 21: 124-127. Mar. 1949. 8 Es1

A rural industry of Costa Rica.

48987 HALL, R. F., and RYAN, G. L. The Isabella  
County [Michigan] health program. Prog. Ed. 26: 137-  
139. Mar. 1949. 275.8 P94

48988 HARDING, T. S. Medical research in the  
U. S. Department of Agriculture. Rur. Sociol. 14: 3-10.  
Mar. 1949. 281.28 R88

48989 HARPER, H. Hunting—a farm boy's heritage.  
Agr. Ed. Mag. 21: 237. Apr. 1949. 275.8 Ag8

48990 HARTAN, H. Förderung des technischen  
unterrichts an landwirtschaftlichen lehranstalten. Land-  
technik 4: 140-141. Mar. 15, 1949. 58.8 L235

Germany.

48991 HAYSTEAD, L. New life for the little brown  
church. Country Gent. 119(4): 28, 149-151. Apr. 1949.  
6 C833

48992 HEDLIN, R. Books for the asking. Country  
Guide 68(3): 3, 71. Mar. 1949. 7 G76

Saskatchewan's library service to farm families.

48993 HEMBREE, J. B. The story of the Alabama  
Farmer. Ala. Farmer 27(7): 8. Apr. 1949. 276.8 AL1

48994 HERNDON, C. A. Television expanding west-  
ward fast, but most farms, ranches out of range. Okla.  
Rur. News 2(4): 3. Apr. 1949. 335.8 Ok4

48995 HEROLD, G. Kosten und steuern bei bäuer-  
lichen eheverträgen. Kurzbrieft. f. Ernähr. u. Landw.  
12, E I 5: 4. Dec. 1948. 281.8 K96

Germany.

48996 HOWARD, R. W. Ohio looks to its reading.  
Coop. Digest 9(10): 47-52. Apr. 1, 1949. 280.28 C7896

Rural.

48997 IOWA. STATE COLLEGE OF AGRICULTURE.  
AGRICULTURAL EXTENSION SERV. Catalog of audio-  
visual aids, 1949-1950. Iowa. State Col. Agr. Ext. B.  
47(32), 189 p. Jan. 5, 1949. 275.9 Io93



- 48998 JOHNSON, G. F. New trends in the use of color slides. *Better Farming Methods* 21(5): 19, 52. May 1949. 58.8 B46  
Extension work.
- 48999 KATJU, K. N. The Indian peasant. *Agr. Econ.* 1: 13. Nov. 1948. 281.8 Ag332
- 49000 KAUFMANN, B. J. An evaluation of farm veterans training. *Agr. Ed. Mag.* 21: 226. Apr. 1949. 275.8 Ag8
- 49001 KEIM, J. F. Building extension work in Wuertemberg-Baden. *Ext. Serv. Rev.* 20: 50-51. Mar. 1949. 1 Ex892Ex
- 49002 KNECHT, Die berufliche ausbildung der landwirtschaftlichen jugend. *Württemb. Wchnbl. f. Landw.* 116: 108. Feb. 26, 1949. 18 W96
- 49003 KÜRSTEINER, J. Vom examen der land- und milchwirtschaftlichen schule Sursee. *Schweiz. Milchzeitung* 75: 145. Apr. 1, 1949. 44.8 Sch92
- 49004 KUTIL, C. L. The adventure factor in learning. *Agr. Ed. Mag.* 21: 229. Apr. 1949. 275.8 Ag8
- 49005 LANGKAAS. On the farm management at the State Smallholder Teacher's School. (In Norwegian.) *Norsk Landbr.* 15: 62-66. Feb. 18, 1949. 11 N8122
- 49006 LENO VALENCIA, J., HARO, C. DE, and LÓPEZ MERLO, R. Enseñanza agrícola. *Congreso Sindical de la Tierra, Temas Econ.* 4, 39 p. 1948. 281.176 C764T  
Spain.
- 49007 LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. Progress in Louisiana agriculture, 1946-47; biennial report. Baton Rouge? 1948? 52 p. 275.29 L932A
- 49008 MADAR, I. Project of organization of interim compulsory training in agriculture. (In Russian.) *Interagra* 2: 332-342. 1948. 28 In825  
English summary.  
Czechoslovakia.
- 49009 MAKAREVICH, A. Incorporation of science into production. (In Russian.) *Interagra* 2: 265-269. 1948. 28 In825  
English summary.  
Agricultural education in Poland.
- 49010 MARTIN, R. A community is as good as its school. *Farmer-Stockman* 62(4): 4. Apr. 1949. 6 Ok45
- 49011 MICHIGAN. STATE COLLEGE. Report of progress 1947-1948. 1948. 59 p. 276 M581Rp  
Includes education and research in agriculture.
- 49012 MODENA, B. The parish doctor. (In Italian.) *Gior. d'Ital. Agr.* 32(11): 1. Mar. 12, 1949. 16 G433
- 49013 MOORE, R. E. Hará un estudio sobre bibliotecas agrícolas el Sr. Ralph Shaw. *Rev. de Agr., Com. e Indus. [Panama]* 8(87): 36-37. Nov. 1948. 8 R3291
- 49014 NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Recreation for rural youth. *Nebr. Agr. Col. Ext. E. C.* 2007, 27 p. Mar. 1949. 275.29 N272Ex
- 49015 NOBLE, D. B. Why not States' rights for the Columbia Valley? *Pub. Util. Fortnightly* 43: 544-553. Apr. 28, 1949. 280.8 P966
- 49016 NORWAY. LANDBRUKSDEPARTEMENTET. Report of the agricultural schools for 1942/43. (In Norwegian.) Oslo, 1949. 47 p. (Its Årsmelding. Tillegg L). 11 C46L
- 49017 PEARSON, H. S. Fifteen ways to make money in the country. New York, Grosset & Dunlap, 1949. 210 p. 31.3 P312F
- 49018 PEDRETTI, L. Bauernerziehung und bauernbildung. *Allgäuer Bauernbl.* 17: 45-46. Jan. 28, 1949. 18 AL53
- 49019 PIACCO, R. Scolastic reform in the field of agricultural teaching. (In Italian.) *Risicoltura* 37: 26-28. Feb. 1949. 59.8 G43
- 49020 POLTAVTSEV, M. A. Greater attention to the collective farm cottage laboratories. (In Russian.) *Sovet. Agron.* 6(6): 86-88. June 1948. 20 So48  
Farmer education.
- 49021 POPE, W. The rural church has an answer. *Cornell Countryman* 46(6): 12, 34. Mar. 1949. 6 C81  
Community federation of churches.
- 49022 PRIOR, K. Rural science in Nigeria. *Rural Missions* 69: 4, 6. Winter, 1949. 281.28 Ag8  
Education.
- 49023 PRONIN, A. A. Zemědělské školství v SSSR [Agricultural education in the U. S. S. R.]. Praha, Ústav pro Mezinárodní Spolupráci v Zemelství a Lesnictví, 1948. 21 p. (Bibliotéka Mezinárodní Spolupráce v Zemědělství a Lesnictví. 6) 275.1 P942
- 49024 PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Annual report, 1947; thirty-fifth report of the director, Purdue University, Agricultural Extension Service. Lafayette, 1948? 110 p. 275.29 In2
- 49025 RATHBONE, R. B. North Dakota agents like radio. *Natl. County Agent* 5(3): 18-19. Mar. 1949. 275.28 N213
- 49026 ROBERSON, L. K. Health education in Ohio. *Nation's Agr.* 24(4): 18-19. Apr. 1949. 280.82 B89
- 49027 RODHAIN, J. Le service d'hygiène et l'assistance médicale aux indigènes au Congo Belge. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5: 1459-1468. 1948. 150 In822
- 49028 ROEMER, M. I. How the health department serves you. *W. Va. Agr. Col. Ext. Good Living Ser.* 16, *Today's Family Trains Tomorrow's Citizens. Lesson* 8, 6 p. 1949? 275.29 W522G
- 49029 ROHRER, W. C. Factors making for success in a rural cooperative hospital. *Southwest. Social Sci. Q.* 29: 280-283. Mar. 1949. 280.8 So82
- 49030 ROSZMAN, F. D. Camp conservation activities for farm youth. *Ohio Conserv. B.* 13(4): 22-23. Apr. 1949. 279.9 Oh33O
- 49031 RUSSELL, D. Will Gilmer-Aikin proposal help rural schools? *Prog. Farmer, Tex. Ed.* 64(4): 30-31. Apr. 1949. 6 T311  
In Texas.
- 49032 SALISBURY, E. I. Health and medical services for agricultural workers in the tropics. *U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen.* 5: 1444-1451. 1948. 150 In822
- 49033 SANCHEZ MENESES, V. La Sociedad de Propietarios de Yungas prepara sus técnicos agrícolas en las universidades del Brasil. *Campo [La Paz]* 3(21): 62-64. Jan. 1949. 9.1 C15
- 49034 SASKATCHEWAN. DEPT. OF CO-OPERATION AND CO-OPERATIVE DEVELOPMENT. Annual report, co-operative extension services, 1947/48. 1949. 11 p. 280.29 Sa74A
- 49035 SAURE, MRS. R. Challenges facing the present-day farm family. *Amer. Coop.* (1948) 20: 23-27. 1949. 280.29 Am3A
- 49036 SERPIERI, A. Professional novitiate of agronomists. (In Italian.) *Istr. Agr. Prof.* 1948(1): 3. Apr. 30, 1948. 275.8 Is7
- 49037 SIM, R. J. Pages from the past of rural New Jersey. Trenton, N. J. Agr. Soc., 1949. 121 p. 138 Si4  
Handicrafts.
- 49038 SMITH, E. J. They bring back ideas. *Farmers Weekly [London]* 30(9): 43-44. Mar. 4, 1949. 10 F2226  
Impressions of North American farming of a young farmer on a scholarship tour.
- 49039 STALL, C. W. Vocational agriculture school department proves valuable to Morgan County farmers. *Hoosier Farmer* 34(4): 12, 14, 33. Apr. 1949. 280.82 H76
- 49040 STOKES, J. Are you letting your rural mail carrier get in a rut? *Ind. Farmers Guide* 105(5): 1, 7. Mar. 15, 1949. 6 In2
- 49041 STONE, D. Las escuelas indígenas de Costa Rica. Costa Rica. *Mus. Nac. B.* 2: 14-15. Nov. 1948. 516 Sa53B
- 49042 SUMMERS, E. Planes para la organización de los servicios de extensión agrícola completa en Costa Rica. II. Suelo Tico 1: 280-291. Nov. 1948. 8 Su2
- 49043 TATUM, L. Our Home [Demonstration] Center is worth its cost. *Ext. Serv. Rev.* 20: 62-63. Apr. 1949. 1 Ex892Ex
- 49044 TAYLOR, A. J. Higher standard of education for young farmers. (In Afrikaans.) *Landbouweekblad* 30 (1547): 44-45. Mar. 9, 1949. 24 L232
- 49045 THESSALONICA AGRICULTURAL AND INDUSTRIAL INSTITUTE, SALONIKA, GREECE. American Farm School, an outpost of Christian America in Greece, 1902-1947. New York? 1948? 10 p.-folder. 106.5 T34
- 49046 TREMBLAY, A. L'agriculteur canadien-français; étude économique-sociale. III. La restauration de l'économie par les forces sociales. *Rev. d'Oka* 22: 213-228. Ref. Nov./Dec. 1948. 7 Ck1



49047 TUBEVILLE, G. Religious schism in the Methodist church: a sociological analysis of the Pine Grove case. *Rur. Sociol.* 14: 29-39. Mar. 1949. 281.28 R88

49048 UKIL, A. C. Integrated rural health planning. *Sci. and Cult.* 14: 299-302. Feb. 1949. 475 Sci24 India.

49049 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Motion pictures of the United States Department of Agriculture, 1949. U. S. D. A. Misc. P. 673, 53 p. 1949. 1 Ag84M

49050 U. S. EXTENSION SERV. Observance of Rural Life Sunday by 4-H Clubs, 1949, by G. L. Warren. Washington, 1949. 22 p. 1.913 F30b7

49051 U. S. EXTENSION SERV. Report on the Foreign Student Program to the Land-Grant College Committee on extension organization and policy, by F. P. Frutche. Washington, 1949. 2 p. 1.913 S2R29

49052 VANDERFORD, D. W. A different day in a county extension office. *Better Farming Methods* 21(5): 22, 52. May 1949. 58.8 B46

49053 VANDERMYDE, J. B. Our farm families are basic economic unit in U. S. today. *Midland Coop.* 16(33): 4. Apr. 20, 1949. 280.28 M58

49054 VIDAL FERNANDEZ, B. La higiene se impone. *Ceres [Valladolid]* 14(152): 6-7. Feb. 1, 1949. 15 C33

49055 VRBENSKII, V. Slavic agricultural exhibition in Prague 1948. (In Russian.) *Interagra* 2: 274-279. 1948. 28 In825 English summary.

49056 WATSON, J. A. S. Old farming beliefs in the light of science. *Gt. Brit. Min. Agr. Agriculture* 55: 507-512. Mar. 1949. 10 G79J

49057 WILEDEN, A. F. The forgotten village. *Ext. Serv. Rev.* 20: 60. Apr. 1949. 1 Ex892Ex Community recreation.

49058 WILEDEN, A. F. Let's not take recreation for granted—a positive emphasis is needed. *Ext. Serv. Rev.* 20: 43. Mar. 1949. 1 Ex892Ex First of a series.

49059 ZAGO, F. Importance of professional agricultural education. (In Italian.) *Istr. Agr. Prof.* 1948(1): 4. Apr. 30, 1948. 275.8 Is7

49060 ZANONI, G. Directions for beginning schools of agriculture. (In Italian.) *Istr. Agr. Prof.* 1948(2): 6-7. Oct. 28, 1948. 275.8 Is7

#### Leadership

49061 ADAMS, J. B. Developing F.F.A. leadership. *Agr. Ed. Mag.* 21: 236. Apr. 1949. 275.8 Ag8

49062 BOWMAN, A. E. Qualifications of a State 4-H Club leader. Washington, U. S. Ext. Serv., 1949. 6 p. 1.913 A2B68

49063 HUTTON, B. Is leadership developing fast enough? *Ext. Serv. Rev.* 20: 48-49. Mar. 1949. 1 Ex892Ex

49064 LAMPO, M. Leadership activities Neosha, Missouri, F.F.A. chapter. *Agr. Ed. Mag.* 21: 234, 237. Apr. 1949. 275.8 Ag8

49065 LEONARD, J. H. Leadership through cooperation of State association and local chapters. *Agr. Ed. Mag.* 21: 233. Apr. 1949. 275.8 Ag8

49066 PARISH, J. L. Chapter activities that train for leadership. *Agr. Ed. Mag.* 21: 235. Apr. 1949. 275.8 Ag8 Future Farmers of America.

49067 STEWART, J. 4-H leaders go to school for training in club work. *Utah Farmer* 68(15): 8. Mar. 26, 1949. 6 D45

49068 U. S. EXTENSION SERV. The rural clergyman as a parish leader, by E. J. Niederfrank. Washington, 1949. 5 p. 1.913 A2N55

49069 U. S. EXTENSION SERV. State and assistant State leaders in 4-H Club work. Washington? 1949. 7 p. 1.913 F3St22

#### Rural Organizations and Movements

49070 ABREU, A. Cooperation as a dynamic force in public and private activities. (In Portuguese.) *DEACOOOP, Inform. Coop.* 2(8): 3-10. Jan. 1949. 280.28 D34

49071 AIKEN, G. D. Cooperatives have a selling job ahead. *Amer. Coop.* (1948) 20: 11-12. 1949. 280.29 Am3A

49072 AIKEN, G. D. The place of cooperatives in American agriculture. n. p., 1948. 7 p. 280.2 Ai4

49073 AIMS and opportunities of farmer cooperatives. *Amer. Coop.* (1948) 20: 103-129. 1949. 280.29 Am3A Panel discussion; E. A. Perregaux, chairman.

49074 AKERS, B. H. The co-op story; it is a recital of the failures and successes which provide the background for present-day farmer organizations. *Farmer [St. Paul]*, Gen. Ed. 67(7): 56, 59-63. Apr. 2, 1949. 6 F2211

49075 ALAMA, J. V. La cooperación en el campo de Orihuela. *Cooperación* 8(83): 26. Jan. 1949. 280.28 C7875

49076 ALARCON MATIENZO, H. Los clubs escolares campesinos. *Campo [La Paz]* 2(20): 23, 25. Dec. 1948. 9.1 C15

49077 AMERICAN INSTITUTE OF COOPERATION. American cooperation 1948. n. p., 1949. 436 p. 280.29 Am3A

49078 ASHBY, A. W. Co-operation and the needs of agriculture. *Welsh Agr. Organ. Soc. Ann. Rpt.* 1947: 29-33. 1948? 280.29 W46R

49079 BENEDETTI, U. DE. In the agricultural syndicates ideas are beginning to clear up. (In Italian.) *Coop. e Agr.* 31(3): 1. Jan. 22, 1949. 16 C78 Italy.

49080 BENTLEY, R. E. The merit rating of local cooperative managers. *Amer. Coop.* (1948) 20: 205-210. 1949. 280.29 Am3A

49081 BERTHAULT, P. La Confédération Européenne de l'Agriculture. *Rev. Agr. de l'Afrique du Nord* 47: 2-4. Jan. 7, 1949. 80 R326

49082 BLANCHARD, G. V. Amendments to the Model Agricultural Act adopted by the State of Maine in 1945 and 1947. *Amer. Coop.* (1948) 20: 258-270. 1949. 280.29 Am3A

49083 BONOMI, P. Rural unity. (In Italian.) *Coop. e Agr.* 31(2): 1. Jan. 15, 1949. 16 C78 Italy.

49084 BORNHOLMS LANDØKONOMISKE FORENING. Report on the activities of the Bornholm Agricultural Economic Association. (In Danish.) *Rønne*, 1948? 31 p. 11 B64B

49085 BROMFIELD, L. Friends of The Land. *Ohio State Grange Monthly* 52(2): 1. Mar. 1949. 6 Oh33

49086 BUTLER, K. D. The American Institute of Cooperation—present and future. *Amer. Coop.* (1948) 20: 36-45. 1949. 280.29 Am3A

49087 CANONGE, H. Devant tant d'incohérences il faut mobiliser les volontés paysannes. *Bas-Rhin Agr.* 4: 121. Mar. 5, 1949. 14 B29

49088 CHAPIN, G. Comment créer un groupement de défense des cultures. *J. de la France Agr.* 5: 167. Apr. 1/7, 1949. 14 J829

49089 CHARBONNEAU, A. La coopération agricole va de l'avant dans le district de Joliette. *Ensemble!* 10 (4): 24. Apr. 1949. 280.28 En7

49090 THE CONTRIBUTIONS of research to cooperatives. *Amer. Coop.* (1948) 20: 344-349. 1949. 280.29 Am3A

Panel discussion; J. K. Stern, chairman.

49091 COOPERATIVE accounting. *Amer. Coop.* (1948) 20: 230-239. 1949. 280.29 Am3A Panel discussion; K. N. Probasco, chairman.

49092 COOPERATIVE education—colleges. *Amer. Coop.* (1948) 20: 305-315. 1949. 280.29 Am3A Panel discussion; R. Corbett, chairman.

49093 COSTA, R. The rise of cooperation in rural production of Rio Grande do Sul. (In Portuguese.) *Soc. Coop. da Indús. Pecuária do Pará. B.* 16(71): 25-26. Oct./Dec. 1948. 280.2409 So1

49094 COUNTRY WOMEN'S ASSOCIATION OF NEW SOUTH WALES. The official annual; twenty-sixth annual report and balance-sheet, 1948. 1948. 236 p. 281.29 C8340

49095 DAVID, D. K. Farmer cooperatives and other business enterprises. *Amer. Coop.* (1948) 20: 79-87. 1949. 280.29 Am3A

49096 DUGGAN, I. W. Study your co-op's balance sheet. *News Farmer Coops.* 15(12): 4. Mar. 1949. 166.2 N47

Also in *Norbest Turkey News* 13(9): 2-3. Mar. 1949. 47.38 N75



- 49097 EASTERN STATES FARMERS' EXCHANGE. Eastern States services—they helped you farm better in 1948; annual report. East. States Coop. 25(4): 6-11. Apr. 1949. 280.28 Ea7
- 49098 EASTERN STATES FARMERS' EXCHANGE. 1948 was the biggest year; annual report of the treasurer. East. States Coop. 25(4): 14-17. Apr. 1949. 280.28 Ea7
- 49099 EHMANN, W. Gedanken zur neugründung der Landw. Zentralgenossenschaft Württembergs. Württemb. Wchnbl. f. Landw. 116(1): 4. Jan. 1, 1949. 18 W96
- 49100 FARM BUREAU SERVICES. Story of the year; annual report, 1947/48. 1948. 33 p. 280.29 F2295 Cooperatives.
- 49101 FARMER cooperatives and other American business. Amer. Coop. (1948) 20: 98-99. 1949. 280.29 Am3A  
Panel discussion; H. H. Rathbun, chairman.
- 49102 FERRI, S. Advantages and disadvantages of agricultural cooperation. (In Italian.) Gior. d'Ital. Agr. 32(7): 1-2. Feb. 12, 1949. 16 G433
- 49103 FETROW, W. W. Was this your annual meeting? News Farmer Coops. 15(12): 11, 21. Mar. 1949. 166.2 N47
- 49104 FETROW, W. W. What my co-ops mean to me. Pacemaker 7(6): 6, 8. Mar. 15, 1949. 280.28 P113
- 49105 FIGL. In der einigkeit liegt unsere stärke! Allg. Bauern-Ztg. 4(12): 1. Mar. 19, 1949. 281.8 A15 Austria.
- 49106 FINANCE of cooperatives. Amer. Coop. (1948) 20: 353-367. 1949. 280.29 Am3A  
Panel discussion; G. W. Lamb, chairman.
- 49107 FRENTE DE JUVENTUDES. Nacionalindicalismo para juventudes campesinas; texto elaborado por el Seminario Central de Formación Política y editado por la Sección Central de Rurales. n. p., 1948. 112 p. 281.176 F88
- 49108 FRITZ, J. J. California co-ops, 1880-1900; farmers, labor backed first Rochdale groups. Assoc. Coop. 5(8): 5. Mar. 5, 1949. 280.28 C7853  
Second in a series of articles.
- 49109 FRY, MRS. E. What farmer cooperatives mean to my family. Amer. Coop. (1948) 20: 28-31. 1949. 280.29 Am3A
- 49110 GALOCKIN, A. The co-operative movement in Poland. (In Czech.) Družstevní Rev. 2: 217. Mar. 1949. 280.28 D84
- 49111 GAMACHE, C. A. Etude de la loi des sociétés coopératives agricoles. 4. Ensemble! 10(3): 27-30; (4): 18-19. Mar.-Apr. 1949. 280.28 En7  
Canada.
- 49112 GARDNER, C. M. The Grange, friend of the farmer; a concise reference history of America's oldest farm organization, and the only rural fraternity in the world, 1867-1947. Washington, Natl. Grange, 1949. 531 p. Ref. 4 G17
- 49113 GENERAL CO-OPERATIVE ASSOCIATION OF JEWISH LABOUR IN ISRAEL. Le mouvement coopératif dans l'état d'Israël. The co-operative movement in Israel. Tel-Aviv, 1948. 12 p. 280.2 G282
- 49114 GILS, A. La coopération agricole. Rev. de l'Agr. 1: 890-895. Nov./Dec. 1948. 13 R322
- 49115 GMELIN, W. Neue aufgaben der landwirtschaftlichen genossenschaften. Bad. Landw. Wchnbl. 116: 46. (To be cont.) Jan. 29, 1949. 18 B142
- 49116 GROFF, C. G. Address to the 40th annual convention United Farmers of Alberta, Calgary, December 1, 1948. n. p., 1948? 12 p. 281.9 C166A  
On the Canadian Federation of Agriculture.
- 49117 GULLANDER, Å. Bönder i alla land förenas eder [Farmers in all countries unite!] Stockholm, Bonnier, 1948. 248 p. 30.4 G95
- 49118 HOBSON, A. What the "Royal" [Agricultural Society of England] means to Britain. Brit. Farmer 1949(9): 11. Mar. 31, 1949. 281.8 B77
- 49119 HOPE, C. R. National agricultural policy and farmer cooperatives. Amer. Coop. (1948) 20: 13-22. 1949. 280.29 Am3A
- 49120 HOW TO teach youth about farmer cooperatives. What does out-of-school youth think? Amer. Coop. (1948) 20: 324-329. 1949. 280.29 Am3A  
Panel discussion; M. Nichols, chairman.
- 49121 HOW TO teach youth about farmer cooperatives. What does rural America think? Amer. Coop. (1948) 20: 330-335. 1949. 280.29 Am3A  
Panel discussion; F. W. Cyr, chairman.
- 49122 JENSEN, A. L. Terminology in cooperative corporation law. Amer. Coop. (1948) 20: 271-283. 1949. 280.29 Am3A
- 49123 JOHNSON, W. T. Planning a national N.F.A. [New Farmers of America] day program. Agr. Ed. Mag. 21: 238. Apr. 1949. 275.8 Ag8
- 49124 KNAPP, J. G. Problems of cooperatives today Washington? U. S. Farm Credit Admin., 1949. 13 p. 1.955 C2K72
- 49125 LEGAL and accounting problems. Amer. Coop. (1948) 20: 292-296. 1949. 280.29 Am3A  
Panel discussion; L. S. Hulbert, chairman.
- 49126 LEGAL education. Amer. Coop. (1948) 20: 240-257. 1949. 280.29 Am3A  
Panel discussion; A. L. Jensen, chairman.
- 49127 LIMA, J. P. The example of the 4-H clubs. (In Portuguese.) Brincar e Aprender 7(31): 10. Jan./Mar. 1949. 275.249 B77
- 49128 LINCOLN, M. D. Let's face management and employee problems. News Farmer Coops. 15(12): 6, 20-21. Mar. 1949. 166.2 N47  
In cooperative organizations.
- 49129 LUNDBERG, J. La coopération face aux monopoles. Coopération 19: 10-14. Mar. 1949. 280.28 C7845
- 49130 MCGEHEE, M. W. Technical and economic research for farmers' cooperatives; a digest of selected reports on recent and current research of interest to farmers' cooperatives. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Ref. List 4, 32 p. Oct. 1948. 1.955 C2R25
- 49131 MANGO, A. Cooperation and agrarian reform. (In Italian.) Gior. d'Ital. Agr. 32(10): 1. Mar. 5, 1949. 16 G433
- 49132 MAYHEW, W. E. Single and multiple pool accounting for cooperatives. Amer. Coop. (1948) 20: 219-229. 1949. 280.29 Am3A
- 49133 MENEZES, R. B. DE. The financing of cooperatives is a necessity. (In Portuguese.) Coop [Bahia] 7(59): 18, 20. Oct. 1948. 280.28 C7842
- 49134 MESQUITA, D. DE. Organization of the rural life of the country [Brazil]. (In Portuguese.) Cooperativismo [Rio de Janeiro] 3(33): 17-20. Mar. 1949. 280.28 C7856  
Organizations.
- 49135 MICHIGAN STATE GRANGE. 1949 Roster of granges in Michigan. 1949. 44 p. 4 M589G
- 49136 MINNIS, R. What a farmer cooperative means to me. Amer. Coop. (1948) 20: 32-35. 1949. 280.29 Am3A
- 49137 MIRA, E. Importancia de la cooperación en Alicante. Cooperación 8(83): 14-15. Jan. 1949. 280.28 C7875
- 49138 MYERS, W. I. The economic outlook for farmer cooperatives and other agricultural businesses. Amer. Coop. (1948) 20: 88-97. 1949. 280.29 Am3A
- 49139 NATIONALE COÖPERATIEVE RAAD. Elfde jaarverslag [Eleventh annual report], 1948. 1949. 16 p. 280.29 N216  
Netherlands.
- 49140 NATIONAL COMMITTEE ON BOYS AND GIRLS CLUB WORK. National 4-H awards handbook, 1948. 1949? 64 p. 275.28 N214
- 49141 NATIONAL COUNCIL OF FARMER COOPERATIVES. Proceedings of the 1949 annual meeting of delegates. 1949. 63 p. 280.29 N21A
- 49142 NEW SOUTH WALES. COOPERATIVE SOCIETIES. Report of the registrar for the year ended 30th June, 1946. 1948. 23 p. 280.29 N47
- 49143 OLIVENCIA, P. Clubes 4-H modelo. Puerto Rico. Agr. Col. Ext. C. 4-H 51, 4 p. Aug. 1948. 275.29 P96Cu
- 49144 OLIVENCIA, P. Selección de delegados a campamentos 4-H. Puerto Rico. Agr. Col. Ext. C. 4-H 58, 2 p. June 1948. 275.29 P96Cu
- 49145 ORTIZ G., L. B. Que quiere decir "cooperativas." Soc. Antioqueña de Agr. B. Agr. 350/351: 3000-3003. Aug./Sept. 1948. 9.4 Sol
- 49146 PRESENT and future activities of the Institute. Amer. Coop. (1948) 20: 46-50. 1949. 280.29 Am3A  
Panel discussion; W. I. Myers, chairman.  
On the American Institute of Cooperation.
- 49147 PUBLIC responsibilities of farmer cooperatives. Amer. Coop. (1948) 20: 157-161. 1949. 280.29 Am3A  
Panel discussion; J. A. Hooper, chairman.



49148 PUTNEY, D. Treatment of losses by farmer cooperatives. *Amer. Coop.* (1948) 20: 240-245. 1949. 280.29 Am3A

49149 RAO, K. S. Co-operation and the community. *Reserve Bank India. B. 3:* 81-89. Feb. 1949. 284.9 R31B

49150 RESPONSIBILITIES of directors. *Amer. Coop.* (1948) 20: 162-186. 1949. 280.29 Am3A

Panel discussion; K. B. Gardner, chairman. Papers by J. E. Eidam, O. Heline, S. F. Teele, and R. M. Davenport.

49151 RESPONSIBILITIES of managers and other employees of cooperatives. *Amer. Coop.* (1948) 20: 187-201. 1949. 280.29 Am3A

Panel discussion; R. H. Cronshey, chairman.

49152 RESPONSIBILITIES of members in a farmer cooperative. *Amer. Coop.* (1948) 20: 133-143. 1949. 280.29 Am3A

Panel discussion; F. E. Cole, chairman.

49153 RICHARD, C. A. What teamwork has meant to Kansas. *Amer. Coop.* (1948) 20: 385-389. 1949. 280.29 Am3A

49154 RIVES, E. C'est dans tous les domaines que la coopération agricole peut apporter la sécurité. *Libération Paysanne* 5(203): 8. Feb. 17, 1949. 14 L61

49155 ROYAL ULSTER AGRICULTURAL SOCIETY. Report 1948. 1949. 104 p. 10 R816

49156 SABADOR ROLDÁN, A. Encuadramiento del obrero agrícola en las hermandades. *Congreso Sindical de la Tierra. Temas Econ.* 9, 23 p. 1948. 281.176 C764T

Hermandades de Labradores y Ganaderos in Spain.

49157 SANDBERG, MRS. W. A parent's viewpoint of 4-H. *Agr. Leaders' Digest* 30(3): 58. Mar. 1949. 275.28 Am3

49158 SCARSETH, G. D. Basing our objectives on facts from research. *Amer. Coop.* (1948) 20: 339-343. 1949. 280.29 Am3A

Objectives for farmer cooperatives.

49159 SCHÜTZER, I. B. DE C. Rural school cooperatives. (In Portuguese.) *Coop [Bahia]* 7(59): 5-6. Oct. 1948. 280.28 C7842

49160 SEDLÁK, J. Post-war development of agricultural cooperatives in Czechoslovakia. *Food & Agr.* 1: 4-7. Jan./Mar. 1949. 389.8 F7326

49161 SEIFER, A. Genossenschaft und Bauernhof. *Bad. Landw. Wchbl.* 116: 126. Mar. 12, 1949. 18 B142

49162 SELBY, H. W. The rights and responsibilities of farmer cooperatives. *Amer. Coop.* (1948) 20: 144-156. 1949. 280.29 Am3A

49163 SELECTION and training of local managers for cooperatives. *Amer. Coop.* (1948) 20: 211-216. 1949. 280.29 Am3A

Panel discussion; J. L. Dickinson, chairman.

49164 SIRRI, A. Technical and economic organizations in agriculture. (In Italian.) *Agr. Moden.* 5(3): 6. Feb. 15, 1949. 16 Ag8255

49165 SPARKES, S. Community benefits from FFA program. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 64(4): 32-33. Apr. 1949. 6 P945K

49166 STANFORD, J. FFA Co-op is big business. *Prog. Farmer, Ky.-Tenn.-W. Va. Ed.* 64(3): 34, 136. Mar. 1949. 6 P945K

The Kentucky Future Farmer Cooperative.

49167 STICHTING VOOR DEN LANDBOUW. Jaarverslag [Report of the Agricultural Institute] 1947. (In Dutch.) 's-Gravenhage, 1948? 339 p. 12 St5J

49168 SWANTON, M. K. Cooperative education programs in Wisconsin. *Amer. Coop.* (1948) 20: 371-376. 1949. 280.29 Am3A

49169 SWENSON, S. Young Farmers [of Utah] in the limelight. *Utah Farmer* 68(14): 5, 23. Mar. 12, 1949. 6 D45

49170 SYLVESTRE, L. Les coopératives agricoles de la région de Québec. *Ensemble!* 10(4): 20-21. Apr. 1949. 280.28 En7

49171 TARQUINIA, G. Agrarian reform and production; how the cooperatives are. (In Italian.) *Gior. d'Ital. Agr.* 32(11): 1. Mar. 12, 1949. 16 G433

49172 TAYLOR, R. H. Legislative programs of State councils. *Amer. Coop.* (1948) 20: 377-384. 1949. 280.29 Am3A

49173 TURNER, R. Leaders answer the question: after 4-H—what next? *Better Farming Methods* 21(5): 44-45. May 1949. 58.8 B46

49174 UNION CATHOLIQUE DES CULTIVATEURS. Rapport sur l'exercice 1947-1948. 1948? 43 p.

7 Un3R

49175 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. 4-H Club Week, by A. J. Loveland and M. L. Wilson. Washington? 1949. 3 p. 1.914 R2R11

49176 U. S. EXTENSION SERV. Announcement, Nineteenth National 4-H Club Camp, Washington, D. C., June 15-22, 1949. Washington, 1949. 12 p. 1.9 Ex892Fba

Theme: Know your Government.

49177 U. S. EXTENSION SERV. Tips to follow when you hold a county-wide 4-H Club event. Washington? 1949. 6 p.-folder. 1.913 F3T49

49178 UNIVERSITY COLLEGE OF WALES. Review of agricultural co-operation in Wales during 1946. *Welsh Agr. Organ. Soc. Ann. Rpt.* 1947: 34-59. 1948? 280.29 W46R

Welsh Agricultural Organisation Society, joint author.

49179 WEILER, W. G. How good chapters operate. *Agr. Ed. Mag.* 21: 232-233. Apr. 1949. 275.8 Ag8

Future Farmers of America.

49180 WELSH AGRICULTURAL ORGANISATION SOCIETY, LTD. Annual report 1947. 1948? 60 p. 280.29 W46R

49181 WHAT should youth be taught about farmer cooperatives? What cooperative, school and other leaders think. *Amer. Coop.* (1948) 20: 320-323. 1949. 280.29 Am3A

Panel discussion; C. M. Wieting, chairman.

49182 WHAT should youth be taught about farmer cooperatives? What the youth of high school age think. *Amer. Coop.* (1948) 20: 316-319. 1949. 280.29 Am3A

Panel discussion; L. M. Sasman, chairman.

49183 WILCOX, J. C., EVANS, H. H., and MCLARTY, H. R. The Okanagan Agricultural Club. *Agr. Inst. Rev.* 4: 161-162, 165. Mar. 1949. 7 Ag8

49184 WILKEY, C. R. Young Farmers Associations ask for national organization. *Agr. Ed. Mag.* 21: 227. Apr. 1949. 275.8 Ag8

49185 WILSON, M. L. The Green Promise—a fine example of cooperativeness. Washington, U. S. Ext. Serv., 1949. 2 p. 1.913 A2W69

Motion picture on 4-H Club work.

49186 WISCONSIN COUNCIL OF AGRICULTURE CO-OPERATIVE. Future Farmers and farmer co-operatives. Madison, 1948. 22 p. 280.2 W754

49187 WOLFE, T. K. S. S. Boster Club—self-help at its best. *Coop. Digest* 9(10A): 55-57. Apr. 15, 1949. 280.28 C7896

Southern States Cooperative's Booster Club Program.

49188 WOOD, G. B. Cooperative education—colleges; guideposts for an educational program. *Amer. Coop.* (1948) 20: 299-304. 1949. 280.29 Am3A

49189 ZELLER, A. Bericht über die Tätigkeit der Bundesanstalt für Alpine Landwirtschaft in Admont im Jahre 1947. *Bodenkultur* 2: 281-293. 1948. 19 B635

49190 ZERBS, M. Das landwirtschaftliche genossenschaftswesen. *Salzburger Bauer* 4(10): 10. (To be cont.) Mar. 10, 1949. 19 Sa3

49191 ZIMMERMAN, C. 4-H, Inc., runs a fair. *Capper's Farmer* 60(4): 48, 55. Apr. 1949. 6 M693

## RURAL SOCIAL PSYCHOLOGY

49192 LANDIS, P. H. Personality differences of girls from farm, town, and city. *Rur. Sociol.* 14: 10-20. Mar. 1949. 281.28 R88

49193 POLK CO., IOWA. BOARD OF EDUCATION. Report of rural adult forums in Polk County, Iowa, 1947-1948. Des Moines, 1948? 29 p. 275 D75

49194 SANDAGE, C. H. Qualitative analysis of radio listening in two central Illinois counties. *Ill. U. Col. Com. and Business Admin. Bur. Econ. and Business Res. B. Ser.* 68, 59 p. 1949. 280.9 IL6

Includes data on farm listeners.

49195 STRAIGHT, M. The midwest is worried. *New Repub.* 120(14): 10-14. Apr. 4, 1949. 280.8 N42

Includes political attitudes of farmers.

49196 WILKENING, E. A. A socio-psychological study of the adoption of improved farming practices. *Rur. Sociol.* 14: 68-69. Mar. 1949. 281.28 R88



## TRADE, FOREIGN AND INTERNATIONAL

- 49197 ALVAREZ, J. C. Condiciones que debe reunir la miel de abeja para exportación. *Campo y Suelo Argentino* 32(387): 40-41. Jan. 1949. 9 C15
- 49198 ANDERSSON, P. French alfalfa. (In Danish.) *Dansk Frøavl* 32: 68. Mar. 1, 1949. 61.8 D23  
Import of seed to Denmark.
- 49199 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Overseas trade and customs and excise revenue, 1946-47. 1948. 893 p. 271 Au72A
- 49200 BECH, P., and STAUNING, A. Import of flowers. (In Danish.) *Gart.-Tid.* 65: 60-61. Feb. 9, 1949. 80 G192
- 49201 BRAAK, H. R. Some aspects of rubber export in latex form. (In Dutch.) *Bergcultures* 18: 2-12. Jan. 1, 1949. 22.5 B45
- 49202 BRANNAN, C. F. International Wheat Agreement. Washington, U. S. D. A., 1949. 2 p. 1.91 A2B73
- 49203 BRAZIL. SERVIÇO DE ESTATÍSTICA ECONÔMICA E FINANCEIRA. Comércio exterior do Brasil com o Uruguai [Foreign trade of Brazil with Uruguay], 1946-1947. 1949. 14 p. 255.3 Es84Cbur
- 49204 BRAZIL. SERVIÇO DE ESTATÍSTICA ECONÔMICA E FINANCEIRA. Comércio exterior do Brasil com Portugal [Foreign trade of Brazil with Portugal], 1946-1947. Rio de Janeiro, 1949. 15 p. 255.3 Es84Cbp
- 49205 BRAZIL. SERVIÇO DE ESTATÍSTICA ECONÔMICA E FINANCEIRA. Comércio exterior do Brasil com a Suécia [Foreign trade of Brazil with Sweden], 1946-1947. 1949. 17 p. 255.3 Es84Cbs
- 49206 BRAZIL. SERVIÇO DE ESTATÍSTICA ECONÔMICA E FINANCEIRA. Comércio exterior do Brasil com Trinidad [Foreign trade of Brazil with Trinidad], 1946-1947. 1949. 8 p. 255.3 Es84Cbt
- 49207 BROWN, G. Unfavourable farm reaction to Anglo-Canadian wheat agreement. *Broomhall's* (George) *Corn Trade News* 59: 51-53. Feb. 2, 1949. 286.81 B79
- 49208 BRYAN, A. E. Canada filled large proportion of British food requirements. *Foreign Trade* 5: 806-811. Apr. 16, 1949. 286.8 C162
- 49209 BURNS, N. The American farmer and the ITO charter. U. S. Dept. State. Com. Policy Ser. 118: 215-220. Feb. 20, 1949. 150 C73  
Also in U. S. Dept. State. B. 20: 215-220. Feb. 20, 1949. 150 B87
- 49210 CASANOVA, J. M. Acecho al azúcar: el preferencial histórico. *Rev. Nac. de Ciencias Polít.-Econ.-Sociales* 8(88): 5-6. Mar. 1949. 280.8 R3295  
Cuba.
- 49211 CZECHOSLOVAKIA. STÁTNÍ ÚŘAD STATISTICKÝ. Zahraniční obchod Republiky Československé v roce 1946; foreign trade of the Czechoslovak Republic in 1946. 1948. 301 p. 266.8 St1C
- 49212 DALMASSO, G. Italian grape culture face to face with the French Customs Union. (In Italian.) *Coltivatore e Gior. Vinic. Ital.* 95: 29-30. Feb. 15, 1949. 16 C72
- 49213 DOMINICAN REPUBLIC. DIRECCION GENERAL DE ESTADÍSTICA. Exportación de la República Dominicana 1948. 199 p. 1949. 254.8 D7192Ea
- 49214 EGYPT. MINISTRY OF FINANCE. STATISTICAL ADMINISTRATION. Egypt trade statistics 1946. 1949. 32 p. 270 Eg9E
- 49215 FALKO, E., and others. Import of flowers. (In Danish.) *Gart.-Tid.* 65: 94-96. Mar. 2, 1949. 80 G192  
E. M. Deichmann, K. Geert-Petersen, Københavnske Gartneres Blomstercentral A/S, P. Bech, and A. Stauning, joint authors.
- 49216 FENAROLI, L. Hybrid corn imports for the '49 season. (In Italian.) *Mezzogiorno Agr.* 5(10): 4. Mar. 6, 1949. 16 M57
- 49217 FRASER, J. G. C. The varietal composition of Canadian export wheat, 1926-1946. *Sci. Agr.* 29: 97-127. Mar. 1949. 7 Sci2
- 49218 FROSTENSON, G. Towards an international wheat agreement. (In Swedish.) *Jordbrukarnas Föreningsblad. Uppl. A: Östra Mellansverige* 19(14): 3. Apr. 2, 1949. 11 J762
- 49219 GREIDANUS, G. Some aspects of a new international sugar agreement. (In Dutch.) *Econ.-Statis. Ber.* 34: 168-170. Mar. 2, 1949. 280.8 Ec722  
English summary.
- 49220 GROSS, M. E. 1948 tea and coffee imports review with reports on the future outlook. *Tea & Coffee Trade J.* 96(4): 10-11, 17-18, 20, 24. Apr. 1949. 68.8 T22
- 49221 HAMPTON, C. W. Rising export business seen in Dixie if leaf prices are readjusted to times. *Tobacco* [New York] 128(13): 19-20. Mar. 31, 1949. 286.89 T552
- 49222 INDIA. DEPT. OF COMMERCIAL INTELLIGENCE AND STATISTICS. Annual statement of the seaborne trade of British India with the British Empire and foreign countries for the fiscal years ending 31st March, 1945 & 1946, volume I. 1949. 953 p. 269.5 St2Aa
- 49223 INTERNATIONAL COTTON ADVISORY COMMITTEE. Regulations of governments affecting international trade in raw cotton. Washington, 1948? 2 p. 286.372 In8Re
- 49224 ISE, J. A story of tariff prosperity; "excelsior," a satire on what we could expect if tariffs were carried to their logical conclusion. *Farm Policy Forum* 2(2): 25-29. Apr. 1949. 281.8 F7224
- 49225 JESPERSEN, J. The English apple market. (In Danish.) *Gart.-Tid.* 65: 123-125. Mar. 23, 1949. 80 G192
- 49226 KESSLER, H. Zur statistik über ein- und ausfuhr an obst, obstprodukten und wein im jahre 1948. *Schweiz. Z. f. Obst u. Weinbau* 58: 79-80. Feb. 12, 1949. 80 Sch9
- 49227 KHADEM, S. B. E. Japan as a market for Egyptian cotton. *Egypt. Cotton Gaz.* 6: 13-20. Jan. 1949. 72.8 Eg9
- 49228 KOENIG, N. Food for Europe, but with an IF; good harvests have helped, and ECA is a great lift, but unless nations trade on a two-way street across frontiers and oceans, there can be no real recovery. *Survey* 85: 26-30. Jan. 1949. 280.8 C37
- 49229 LAARMAN, N. A. Trade agreements and possibilities for horticulture. (In Dutch.) *Groenten en Fruit* 4: 569-570, 572. (To be cont.) Mar. 10, 1949. 80 G89  
Netherlands.
- 49230 LUJAN A., J. M. Exportación de café de la cosecha 1947-48. *Suelo Tico* 1: 341-343. Nov. 1948. 8 Su2  
Costa Rica.
- 49231 LUTHER, L. W. Slowly improving picture in exports seen in new '49 figures in tobacco. *Tobacco* [New York] 128(13): 31, 142-143. Mar. 31, 1949. 286.89 T552
- 49232 MACFARLANE, D. L. The export market puzzle; where can we market our surplus farm products? *Canad. Countryman* 38(6): 7, 44-46. 7 C833
- 49233 MARKELL, E. L. Hop growers suffering from tariff reductions. *Hopper* 5(11): 7-9. Feb. 1949. 70.8 H77
- 49234 MARTIN, P. Où en sommes-nous avec les exportations? *Bas-Rhin Agr.* 4: 157-158. Mar. 26, 1949. 14 B29
- 49235 MENZEL, R. Der weltobsthandel. *Schweiz. Z. f. Obst u. Weinbau* 58: 128-129. Mar. 26, 1949. 80 Sch9
- 49236 MEURS, W. VAN. The competitors of Netherlands in the British onion market. (In Dutch.) *Groenten en Fruit* 4: 582. Mar. 10, 1949. 80 G89
- 49237 MINNEMAN, P. G. The changing picture for U. S. farm exports. *Foreign Agr.* 13: 61-63. Mar. 1949. 1.9 Ec7For
- 49238 MOTZ, F. A. Pears: prospects for a market in Europe. *Pear Growers League Ann.* 1949: 5, 7, 9, 11. 286.3939 P31
- 49239 PELIKAN, L. Kärnten und die weinimporte. *Österr. Weinztg.* 4: 75. Mar. 5, 1949. 390.8 Os7
- 49240 SCHOLTE, V. Tobacco E.R.P. helps recovery of Holland; about same totals in leaf expected for '49. *Tobacco* [New York] 128(13): 59. Mar. 31, 1949. 286.89 T552
- 49241 SWITZERLAND. EIDGENÖSSISCHE OBER-ZOLLDIREKTION. Jahresstatistik des aussenhandels der Schweiz, 1948. v. 2. 1949? 233 p. 262 Z75
- 49242 TUNING, W. Export or emigrate! (In Dutch.) *Bloemisterij* 22(50): 3-4. Dec. 10, 1948. 80 B624  
Flowers.
- 49243 TYSSER, H. F. Union [of South Africa] deciduous fruit in Britain; Sweden to import limited supplies from South Africa. *Farmer's Weekly* [Bloemfontein] 76: 99. Feb. 16, 1949. 24 F225



49244 U. S. DEPT. OF STATE. General agreement on tariffs and trade, Geneva, October 30, 1947. U. S. Dept. State. Treaties and Other Internatl. Acts Ser. 1700, v. 1, 1356 p. Washington, 1949. 150 T71T

49245 U. S. OFFICE OF INTERNATIONAL TRADE. AREAS DIV. BRITISH COMMONWEALTH BR. Rise in exports to United States featured Canada's trade in 1948. Foreign Com. Weekly 34(13): 3-7, 45. Mar. 28, 1949. 157.54 F63

49246 URUGUAY. COMISIÓN HONORARIO DE CONTRALOR DE EXPORTACIONES E IMPORTACIONES. Memoria correspondiente al año 1947. 1948. 160 p. 255.7 Ur872M

49247 VESTBERG, J. General review from "The World Markets and Denmark" during 1948. Copenhagen, J. Jørgensen, 1949. 43 p. 257.1 C792

49248 WESTERN SAMOA. Trade, commerce, and shipping... for the calendar year 1947. 1949. 26 p. 272 W52

49249 ZANZIBAR PROTECTORATE. Annual trade report for the year 1947. 1948. 107 p. 270 Z12

### FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

#### GENERAL

49250 ADAM, A. Vorschlag zu einer rationellen milchverteilung und zuteilung von käsestoff und molkenmilch weisses zwecks behebung des eiweissmangels in der heutigen ernährung der jugendlichen. Milchwissenschaft 4: 65-69. Ref. Mar. 1949. 44.8 M5933  
Summary in English.

49251 AMERICAN DIETETIC ASSOCIATION. Annual reports & proceedings, Boston meeting, 1947-1948. 1949. 48 p. 389.9 Am35P

49252 ANDROSS, M. An attempt to correlate the efficiency and endurance of female workers with some dietary factor. Dietet. Catering 3(1): 8-15. Ref. Spring 1949. 389.8 N959

49253 AYKROYD, W. R. Malnutrition and rice problem. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1172-1180. 1948. 150 In822

49254 BACHAND, B. J. Provision of adequate diet for bizonal area of Germany is aim of program. Foreign Trade 5: 712-713. Apr. 2, 1949. 286.8 C162

49255 BORGES, P. How to promote production and consumption of our foods which have real value. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 155-173. 1948. 389.9 R47

49256 CARL, F. L., FLORY, J., and BACON, D. Suppers and picnic lunches. Mo. Agr. Col. Ext. 4-H Club C. 90, 30 p. June 1948. 275.29 M69B  
Includes recipes.

49257 CASTRO, J. DE. Metabolism of mineral salts in the Tropics: mineral deficiencies in Brazil. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 15-28. Ref. 1948. 389.9 R47

49258 CINTRA, A. B. DE U. Nutritional deficiencies in the American Tropics. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1228-1236. Ref. 1948. 150 In822  
Brazil.

49259 CLEMENTS, F. W. The place of cobalt in nutrition. Austral. Inst. Anat. Food & Nutr. Notes & Rev. 6: 1-3. Jan./Feb. 1949. 389.9 Au73  
In human beings and animals.

49260 DAUBERT, B. F. The place of fats in the diet. (Abs.) Natl. Provisioner 120(15): 39. Apr. 9, 1949. 286.85 N21

49261 DE VRIES, S. I. Nutrition and blood formation. (In Dutch.) Voeding 10: 41-52. Ref. Mar. 15, 1949. 389.8 V85

English summary.

49262 DUTHEIL, L. Résultats de l'enquête sur l'alimentation rurale en 1948. Fiches Rurales (Etudes) 45, 8 p. Mar. 1949. 241.8 F44  
France.

49263 EGE, R. Are porridge and bread the best fare? (In Danish.) Tidsskr. for Husholdning 28: 35-37. Mar. 23, 1949. 321.8 T43

49264 ELVEHJEM, C. A. Seven decades of nutrition research. Science 109: 354-360. Apr. 8, 1949. 470 Sci2

49265 FULLER, J., and FULLER, P. The enigma of tooth decay. Amer. Mercury 68: 458-464. Apr. 1949. 110 Am35

Discusses relation of diet to tooth health.

49266 GILLMAN, T., and GILLMAN, J. Nutritional diseases in South Africa and the problem of prevention by dietary supplements. (Abs.) U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1225-1227. 1948. 150 In822

49267 HAUCK, H. M. How to control your weight. N. Y. Agr. Col. Cornell B. Homemakers 329, rev., 16 p. Dec. 1948. 275.29 N48E  
Chiefly diet.

49268 HELLER, C. A. The Alaskan Eskimo and the white man's diet. J. Home Econ. 41: 177-178. Apr. 1949. 321.8 J82

49269 HODGSON, R. E. General problems of human nutrition in the tropics, in relation to animal husbandry. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1181-1188. 1948. 150 In822

49270 JOHNSON, R. E. The Army's Medical Nutrition Laboratory. Nutr. Revs. 7: 65-66. Mar. 1949. 389.8 N953

49271 KRAUT, H., and WECKER, H. Kalbilanz und kalkbedarf. II. Biochem. Ztschr. 318: 495-506. 1948. 384 B522

In humans.

49272 LESNÉ, B., and RICHET, C. Quelques aspects médicaux de la question du pain et des farines. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 637-644. 1948. 389.8 An73  
Discussion, p. 644-645.

49273 LOFTUS, R. F., and VAN TINE, R. G. La fiscalización de la calidad de drogas y alimentos en EE. UU. Aberdeen Angus [Buenos Aires] 1949: 49-50. Summer 1949. 43.8 Ab33

Work of the Food and Drug Administration.

49274 MALMÉJAC, J. L'alimentation de l'aviateur. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 3: 75-102. Ref. 1949. 389.8 An73

49275 MÖLLER, K. S. Food in the spring months. (In Danish.) Tidsskr. for Husholdning 28: 41-43. Apr. 6, 1949. 321.8 T43

49276 MURPHY, C. R. The national school lunch program. Nutr. Observ. 10: 1-2. Jan. 1949. 389.8 N955

49277 NATELSON, S., SHERMAN, M., and KRAMER, B. Carbohydrate supplements (lactose and starch hydrolysates) in infant feeding; blood sugar changes following the administration of carbohydrate supplements in various milk media. J. Ped. 34: 443-457. Ref. Apr. 1949. 448.8 J8291

49278 NEW YORK CITY. FOOD AND NUTRITION COMMITTEE. Approved films on food and nutrition. Ed. 2. New York, 1948. 69 p. 389.9 N4832

49279 OBERHELMAN, L., and RAINIER, A. P. Meals that measure up. Purdue U. Agr. Ext. Leaflet 289, 8 p. 1949? 275.29 In2L

49280 OLASCOAGA, J. Q. Datos para la historia de la nutriología en México. Medicina; Rev. Mex. 29: 17-20. (Concl.) Feb. 10, 1949. 448.8 M4693

49281 POSTMUS, S. Epidemiological notes on nutritional edema and undernutrition in the Netherlands East Indies, Indonesia. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1210-1216. 1948. 150 In822

49282 PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Meat for the table. Purdue U. Agr. Ext. B. 286, 16 p. 1948? 275.29 In2E

49283 PYKE, M. Nutrition in hospitals. Nutr. Dietet. Catering 3(1): 1-7. Ref. Spring 1949. 389.8 N959

49284 RADHAKRISHNA RAO, M. V. Some common deficiency diseases in India. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1202-1209. Ref. 1948. 150 In822

49285 READ, M. Cultural factors in relation to nutritional problems in the tropics. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1196-1201. 1948. 150 In822



- 49286 RED CROSS. NETHERLANDS. NEDERLANDSCHE ROODE KRUIS. The Netherlands Red Cross feedingteam report on nutritional survey in the Netherlands East Indies, conducted during October 1945 till June 1946. The Hague, Van Loon, 1948. 119 p. 389.1 R243
- 49287 SCHAIK, T. VAN. The nutrition of Netherlanders living in groups. (In Dutch.) Voeding 10: 76-96. Ref. Mar. 15, 1949. 389.8 V85  
English summary.
- 49289 SCHWEIGERT, B. S. Present status of the animal protein factor. (Abs.) Natl. Provisioner 120(15): 26. Apr. 9, 1949. 286.85 N21  
In human and animal nutrition.
- 49289 SEBRELL, W. H. Medical resurvey of nutrition in Newfoundland. Mod. Miller & Bakers News 76 (8): 19-20. Apr. 16, 1949. 298.8 M72
- 49290 SINCLAIR, H. M. The assessment of human nutriture. In Harris, R. S., and Thimann, K. V., eds. Vitamins and hormones 6: 101-162. Ref. New York, Academic Press, 1948. 386.2 H243
- 49291 SIQUEIRA, R. DE., and VOGEL, J. Symptomatic aspects of vitamin deficiencies in man and domestic animals. (In Portuguese.) Arq. Bras. de Nutr. 5(4): 5-46; (5): 5-58. July/Aug.-Sept./Oct. 1948. 389.8 Ar6
- 49292 SUNDERLIN, G., and HOSTETLER, R. Master Mix. Purdue U. Agr. Ext. B. 344, 12 p. 1948. 275.29 In2E  
The Mix and recipes.
- 49293 STARE, F. J. The nutritional effect of high protein diets. (Abs.) Natl. Provisioner 120(15): 39. Apr. 9, 1949. 286.85 N21
- 49294 THOMSON, F. A. Dietary deficiencies in children in the island of Viti Levu, Fiji. Roy. Soc. Trop. Med. & Hyg. Trans. 42: 487-492. Ref. Mar. 1949. 448.9 R813
- 49295 TRÉMOLIÈRES, J. La part du pain dans l'équilibre nutritionnel du français. II. Bases physiopathologiques des variations de sa consommation suivant sa qualité. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 591-624. Ref. 1948. 389.8 An73  
Discussion, p. 624-627.
- 49296 TROWELL, H. C. Malignant malnutrition (kwashiorkor). Roy. Soc. Trop. Med. & Hyg. Trans. 42: 417-442. Ref. Mar. 1949. 448.9 R813  
Includes discussion.
- 49297 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Eggs in the kitchen, restaurant, and home. Washington? 1949. 4 p. 1.982 A2Eg3  
Nutritive value and recipes.
- 49298 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Storage for school lunch food and supplies. U. S. D. A. PA-63, 11 p. Mar. 1949. 1 Ag84Pro  
U. S. Production and Marketing Administration cooperating.
- 49299 VEEN, A. G. VAN. Conversion factors for calorific calculations. (In Dutch.) Voeding 10: 52-60. Mar. 15, 1949. 389.8 V85
- 49300 WILDER, R. M. What the Newfoundland survey means to the enrichment program. Bakers Weekly 142(2): 46-47, 50. Apr. 11, 1949. 389.8 B172  
Also in Amer. Miller & Processor 77(4): 24, 30, 36. Apr. 1949. 298.8 Am32
- 49301 WILLIAMS, H. H. The progress of nutrition research. Canning Trade 71(14): 8. Oct. 25, 1948. 286.83 T67
- 49302 WU, H. Nutritional deficiencies in China and southeast Asia. U. S. Dept. State. Internatl. Organ. & Conf. Ser. I. Gen. 5: 1217-1224. Ref. 1948. 150 In822
- FOOD HABITS
- 49303 CASTRO, J. DE. Food areas of Brazil. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 29-45. 1948. 389.9 R47
- 49304 ROBERTSON, D. Cooking and eating in Virginia. Va. Univ. News Let. 25(13): 1. Apr. 1, 1949. 280.9 V815  
Food habits.
- NUTRITIVE AND VITAMIN CONTENT
- 49305 BAKARIAN, P. W. Nutrients and pressure cooking. Dietet. Catering 3(1): 16-26. Spring 1949. 389.8 N959
- 49306 BRIDER, P. Staff of life. Chio Farm Bur. News 28(8): 18-19. Mar. 1949. 6 Oh34  
Bread enrichment.
- 49307 CARO, L. DE, and RINDI, G. Vitamin B<sub>1</sub> content of "Avoorio" processed food rice and related byproducts. (In Italian.) Quaderni della Nutr. 10: 337-357. Nov. 1948. 389.8 Q2  
English summary.
- 49308 CASTRO, J. DE. Vitamin metabolism in the Tropics. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 1-14. Ref. 1948. 389.9 R47
- 49309 CHAVES, J. M. Deterioration of Vitamin C in concentrated orange juices as a result of age and temperature. (In Portuguese.) U. do Brasil. Inst. de Nutr. Trab. e Pesquisas 1: 249-252. 1948. 389.9 R47
- 49310 ELVEHJEM, C. A., and REGISTER, U. D. Availability of proteins and vitamins in processed foods. (Abs.) Natl. Provisioner 120(15): 26. Apr. 9, 1949. 286.85 N21
- 49311 GAILLEAU, R., and ADRIAN, J. Teneur de quelques blés français en riboflavine, acide nicotinique et acide pantothenique. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 383-386. 1948. 389.8 An73
- 49312 HÉROUVILLE, H. D'. La valeur et le rendement alimentaire des céréales. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 689-694. 1948. 389.8 An73
- 49313 HINTZER, H. M. R. La place du pain dans l'alimentation hollandaise. Ann. de la Nutr. et de l'Aliment. Pt. 1, Rev. Synthétiques et Critiques 2: 671-683. Ref. 1948. 389.8 An73
- 49314 HOCKETT, R. G. Sugar: a must in the diet; people thrive on the sweet stuff that is found in carbonated beverages. Natl. Bottlers' Gaz. 68(805): 98-104. Mar. 1949. 390.8 N21
- 49315 LA CAVA, G. Wine. (In Italian.) Alimenti 5: 17. Jan. 1949. 389.8 AL44  
As a food.
- 49316 LEASE, E. J. New law: all corn meal in South Carolina to be enriched. Amer. Miller & Processor 77 (4): 22-23. Apr. 1949. 298.8 Am32
- 49317 MOORE, E. E. Vitamin C in the daily diet. New Zeal. J. Agr. 78: 107-110. Jan. 15, 1949. 23 N48J
- 49318 MOYER, J. C., ROBINSON, W. B., and KER TESZ, Z. I. Conserving vitamin C in peas during processing. Canner 108(17): 18-19. Apr. 23, 1949. 286.83 C16
- 49319 NATIONAL DAIRY COUNCIL. Ice cream, its food value. Chicago, 1948. 6 p.-folder. 389.1 N216Ie
- 49320 PAULA, R. D. DE G. The peanut, a food of exceptional value. (In Portuguese.) Rev. de Quím. Indus. 17(200): 19-24; 18(201): 20-21. Dec. 1948-Jan. 1949. 385 R324
- 49321 POLACHEK, I. A. G. Sostav pishchevykh produktov i ikh kaloriinost' [Composition of food products and their calories]. Moskva, Gos. Izd-vo Med. Lit-ry, 1948. 118 p. 389 P75
- 49322 RICE, E. E. Some effects of plant operations on the vitamin content of meat and meat products. (Abs.) Natl. Provisioner 120(15): 26, 39. Apr. 9, 1949. 286.85 N21
- 49323 SEXTON, W. H. Honey as a food. Irish Beekeeper 3: 25-26, 48. Feb. 1949. 424.8 Ir42  
Nutritive value.
- 49324 SHEETS, O. Legumes in the diet—beans and peas are important sources of proteins, minerals, and vitamins in the South. Miss. Farm Res. [Miss. Sta.] 12 (3): 4-7. Mar. 1949. 100 M69Mi
- 49325 SPIES, T. D., and DREIZEN, S. The effect of milk supplements on the growth of children with nutritive failure. J. Ped. 34: 393-413. Ref. Apr. 1949. 448.8 J8291  
Dried milk.
- 49326 STEVENS, H. P. Nutrition and canned goods. Canad. Food Indus. 20(4): 40-41, 43, 45. Ref. Apr. 1949. 286.83 C166
- 49327 SWIFT, R. W., and BLACK, A. Fats in relation to caloric efficiency. Amer. Oil Chem. Soc. J. 26: 171-176. Apr. 1949. 307.8 J82
- 49328 SYNDIKUS, W. Heilwerte unserer gemüse. Süddeut. Erwerbsgärt. 2: 18-19. Mar. 1948. 80 Su2
- 49329 TALLARICO, G. The antirachitic power of milk, butter, and Italian cheeses. (In Italian.) Mondo del Latte 1949: 39-41, 71. Feb. 1949. 44.8 M74  
French and English summary.



- 49330 U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Food for families with school children. U. S. D. A. AIS-71, slightly rev., 24 p. Mar. 1949. 1 Ag84Ai  
Nutritive value of foods and meal planning.
- 49331 VANTOL F., P. L. Honey in nutrition. (In Portuguese.) Chacaras e Quintais 79: 345-346. Mar. 15, 1949. 9.2 C34
- 49332 VARGAS, L. Los vegetales, alimento básico. Cult. Mod. 30: 132. Apr. 1947. 15 C89
- 49333 VILLAMIL, F. El arroz vitaminizado. Rev. de Agr., Com. e Indus. [Panama] 8(89): 32-35. Jan. 1949. 8 R3291
- 49334 WIECHERS, S. G., and DE VRIES, C. L. Nutritive value and significance of whey desalted by electrodialysis. (In Dutch.) Voeding 10: 60-75. Mar. 15, 1949. 389.8 V85  
English and French summaries.

## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 49335 ALLEN, D. L. The farmer and wildlife. Washington, Wildlife Mangt. Inst., 1949. 84 p. 412.9 AL5
- 49336 ANISIMOV, N. Complete triumph of Michurinite biological science. (In Russian.) Veterinariia 25(11): 6-9. Nov. 1948. 41.8 V6426
- 49337 ARNASON, T. J. Chromosome breakage induced by absorbed radioactive phosphorus. Cold Spring Harbor Symposia Quantit. Biol. 13: 1-5. Ref. 1948. 442.9 C672C
- 49338 BALL, R. C. Experimental use of fertilizer in the production of fish-food organisms and fish. Mich. Agr. Expt. Sta. Tech. B. 210, 28 p. Mar. 1949. 100 M58S  
Michigan Institute for Fisheries Research cooperating.
- 49339 BEADLE, G. W. Genes and biological enigmas. Sci. Prog. [New Haven] 6: 184-249. 1949. 330 B16
- 49340 CAÑIZO, J. DEL. Los ratones, medios de lucha para combatirlos. II. Siembra 1948(12): 7-10. Dec. 1948. 15 S11
- 49341 CLAY, E. W. List of available publications of the United States Department of Agriculture. U. S. D. A. Misc. P. 60, rev., 184 p. Nov. 1948. 1 Ag84M
- 49342 COLD SPRING HARBOR BIOLOGICAL LABORATORY. Biological applications of tracer elements. Cold Spring Harbor, 1948. 222 p. (Cold Spring Harbor Symposia Quantit. Biol. 13) 442.9 C672C
- 49343 COLORADO. DEPT. OF AGRICULTURE. Annual report 1948. 1948. 88 p. 2 C713
- 49344 DEMOSFENOVA, T. The victory of the leading Michurinite science. (Brief review of the work of the session of the Vsesoiuznaia Akademiia Sel'skokhoziaistvennykh nauk im. V. I. Lenina). (In Russian.) Selek. i Semen. 15(9): 63-70. Sept. 1948. 61.9 Se5
- 49345 DIAS, J. DE D. DE O., and CARNEIRO, H. Agricultura geral. Recife, 1948. v. 1, 275 p. 30 OL4
- 49346 FEIN, M. L. Portable water-jet pumps. U. S. Bur. Agr. and Indus. Chem. AIC-223, 5 p. Feb. 1949. 1.932 A2Ag82
- 49347 FILENI, E. Agricultural abbreviations in the world. (In Italian.) Terra e Sole 78: 52. Feb. 1949. 16 T273  
Abbreviations for names of organizations.
- 49348 FRIDMAN, FÜ. New perspectives of international collaboration of students of agronomy, forestry, and veterinary medicine. (In Russian.) Interagra 2: 394-395. 1948. 28 In825  
English summary.
- 49349 GLASNEROVA, E., and MEISSNER, D. Lysenko's materialistic biology. Interagra 2: 269-273. 1948. 28 In825  
Russian summary.
- 49350 HARRIS, R. S., and THIMANN, K. V., ed. Vitamins and hormones. VI. New York, Academic Press, 1948. 435 p. 386.2 H243
- 49351 JAPAN year book 1946-48. 1948? 340 p. 269.7 J277  
Contains chapters on agriculture, sericulture, and forestry.
- 49352 JARRELL, T. D. Lists of publications and patents of Bureau of Agricultural and Industrial Chemistry. U. S. Bur. Agr. and Indus. Chem. AIC-224, 30 p. 1948. 1.932 A2Ag82
- 49353 KÄRNTNER bauernkalender, 1949. Wolfsberg, 1949. 266 p. 19 K143
- 49354 KÜSTER, E. Hundert jahre protoplasma. Oberhess. Gesell. f. Nat.- u. Heilk. Giessen. Ber. Naturw. Abt. (1947) 23: 121-142. Ref. 1948. 509 G36N
- 49355 LEWIS, F. T. The analogous shapes of cells and bubbles. Amer. Acad. Arts and Sci. Proc. 77: 147-186. Ref. Mar. 1949. 500 Am33
- 49356 MIDDLETON, A. D. The control of rats and mice in rural areas. Brit. Agr. J. 1: 129-133. Autumn 1948. 10 B776
- 49357 MORALES M., E. Control de la rata de campo. Suelo Tico 1: 311-315. Nov. 1948. 8 Su2
- 49358 NIGERIA. DEPT. OF AGRICULTURE. Annual report, 1946. 1948. 55 p. 24 N563
- 49359 NOVICK, D., ANSHEN, M., and TRUPPNER, W. C. Wartime production controls. New York, Columbia U. Press, 1949. 441 p. 280.12 N852  
Includes farm machinery, lumber, and rubber.
- 49360 ODELL, D. The book that hangs upon your kitchen wall. Capper's Farmer 60(4): 13, 64-65. Apr. 1949. 6 M693  
Almanacs.
- 49361 PEMBERTON, E. J. Rabbit control measures; poisoning, fumigation, digging out. Victoria. Dept. Agr. J. 47: 73-77. Feb. 1949. 23 V66J
- 49362 PRINCE EDWARD ISLAND. DEPT. OF AGRICULTURE. Annual report for the year ending March 31st 1948. 1948. 85 p. 7 P93A
- 49363 RAUSHENBUSH, S. Our conservation job, a new way to obtain soil and range, forest, fuel and energy conservation. Pub. Aff. Inst. Rpt. 4, 64 p. 1949. 279.12 R19
- 49364 SASKATCHEWAN. DEPT. OF AGRICULTURE. Annual report, 43d, 1947/1948. 179, 24, 16 p. 7 Sa73
- 49365 SCHENK, E. T. Procedure in taxonomy. Rev. ed., enl. and in part rewritten by A. M. Keen and S. W. Muller. Stanford, Calif., Stanford U. Press, 1948. 93 p. 411 Sch22
- 49366 SCHENK, P. J. Our rats and mice. (In Dutch.) Groenten en Fruit 4: 464. Jan. 27, 1949. 80 G89
- 49367 SCHMIDT, H. W. Die ratte als krankheitsüberträger und ihre bekämpfung. Deut. Tierärztl. Wchnschr. 55: 197-198. July 1, 1948. 41.8 D482
- 49368 SESSION of the All-Union Lenin Academy of Agricultural Sciences. (In Russian.) Selek. i Semen. 15(9): 5-62. Sept. 1948. 61.9 Se5  
Addresses on the situation in biological science by T. D. Lysenko, P. P. Lobanov, M. B. Mitin, I. I. Prezent, D. A. Dolgushin, A. A. Ayakian, I. G. Eikhfel'd, V. N. Stoletov, and F. A. Dvorfankin.
- 49369 STANLEY, W. M. Virus research: achievement and promise. Sci. Prog. [New Haven] 6: 138-161. 1949. 330 B16
- 49370 STEINIGER, F. Werden ratten durch die färbung von giftpräparaten abgeschreckt? Anz. f. Schädlingsk. 21: 139-141. Dec. 1948. 421 An9
- 49371 TISELIUS, A. Some recent trends in biochemistry. Chem. & Engin. News 27: 1041-1044. Apr. 11, 1949. 381 J825N
- 49372 TRESSLER, J. O. Uncle Joe's farm almanac. 1949. 1948. 115 p. 30.3 T72
- 49373 UNITED PROVINCES. DEPT. OF AGRICULTURE. Annual administration report, 1946/47. Allaha-bad, 1948. 88 p. 22 Un33
- 49374 U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Bureau of Agricultural and Industrial Chemistry 87 years old. U. S. D. A. AIC-169, rev., 4 p. Mar. 1949. 1.932 A2Ag82



49375 U. S. COMMISSION ON ORGANIZATION OF THE EXECUTIVE BR. OF THE GOVERNMENT. Report of the Hoover Commission on general management of the executive branch. Impact of recommendations on the Department of Agriculture. Washington, 1949. 4 p. 173 Or3Re

49376 U. S. CONGRESS, SENATE. COMMITTEE ON EXPENDITURES IN THE EXECUTIVE DEPARTMENTS. Federal wildlife conservation activities, 1948. Hearings, 81st Cong., 1st sess. on wildlife conservation activities of the Federal Government, 1948; Feb. 9 and 10, 1949. Washington, 1949. 319 p.

Contains statements and testimony by L. W. Swift and E. H. Graham.

49377 U. S. SOUTHERN REGIONAL RESEARCH LABORATORY. Publications and patents, July-December 1948. U. S. Bur. Agr. and Indus. Chem. AIC-188, sup. 2, 18 p. Feb. 15, 1949. 1.932 A2Ag82

49378 UTAH. AGRICULTURAL EXPERIMENT STATION. List of available publications. Logan, 1948. 12 p. 100 UtilL

49379 VENEZUELA. MINISTERIO DE AGRICULTURA Y CRIA. Memoria. 279 p. 1948. 9.95 Ag82M

49380 WILLIAMS, R. J., and BEERSTECHER, E., JR. An introduction to biochemistry. Ed. 2. New York, Van Nostrand, 1948. 736 p. Ref. 386.2 W67

49381 WINKELMANN, A. Feldmausgefahr. Landw. Wchnbl. f. Westfalen u. Lippe 106: 156. Feb. 26, 1949. 18 L2346

### HISTORY AND BIOGRAPHY

49382 BANDLER, N. 91 years young. Cornell Countryman 46(6): 9, 44. Mar. 1949. 6 C81  
Liberty Hyde Bailey.

49383 BASTELEUS, R. Le souvenir d'un grand horticulteur Jean Linden, le père des orchidées. Courrier Hort. 10: 665-666, 669. Nov. 1948. 80 C834

49384 BEA SCHAFFER, our cover girl. Amer. Bee J. 89: 186. Apr. 1949. 424.8 Am3

49385 BEATY, J. Y. Luther Burbank as I knew him. Flower Grower 36: 363, 400-401. Apr. 1949. 80 M72

49386 BOBKO, E. V. D. N. Priánishnikov as an investigator. (In Russian.) Pochvovedenie 1948: 589-593. Oct. 1948. 57.8 P34

49387 BROWN, A. A. Alexander Cance—sturdy philosopher and teacher. Amer. Coop. (1948) 20: 51-54. 1949. 280.29 Am3A

49388 CANNON, C. A. William A. Jump. Speech...in the House of Representatives...Jan. 24, 1949. Washington, 1949. 3 p. 120 J95C

49389 CARRANTE, A. Lionello Petri as defender of the crops. (In Italian.) Ann. della Sper. Agr. (n. s.) 2(2, sup.): V-VII. 1948. 16 An76  
English summary.

49390 ELLENWOOD, C. W. John A. Warder. Amer. Fruit Grower 69(4): 26-27. Apr. 1949. 80 G85

49391 ELLESTAD, B. Luther Burbank. (In Norwegian.) Norsk Hagetidend 65: 51-53. Mar. 1/15, 1949. 80 N81

49392 FAYOL, A. Duhamel du Monceau, un savant oublié du XVIII<sup>e</sup> siècle. Nature [Paris] 3167: 93-94. Mar. 1949. 473 N21

49393 FITE, G. C. John A. Simpson: the Southwest's militant farm leader. Miss. Val. Hist. Rev. 35: 563-584. Mar. 1949. 134.8 M69

49394 HANSEN, C. The gardener and plant breeder Luther Burbank. (In Danish.) Gart.-Tid. 65: 92-93. Mar. 2, 1949. 80 G192

49395 HODGSON, B. 100 years of farming. Farmer [St. Paul], Gen. Ed. 67(7): 14, 40-41, 43. Apr. 2, 1949. 6 F2211  
In Minnesota.

49396 HOGG, R. Sabios y agricultores que contribuyeron a mejorar los cultivos y los ganados. Campo y Suelo Argentino 32(387): 53-55. Jan. 1949. 9 C15

49397 HOPKINS, J. F. Henry Clay, farmer and stockman. J. South. Hist. 15: 89-96. Feb. 1949. 134.8 J82

49398 HORN, S. F. What sort of farmer was Andrew Jackson? Prog. Farmer, Tex. Ed. 64(3): 50, 81. Mar. 1949. 6 T311

49399 JANSEN, P. In memoriam, W. H. Wachter. (In Dutch.) Nederland. Kruidk. Arch. 56: 52-58. Jan. 1949. 451 N28

49400 KERN, J., and REICHGELT, T. In memoriam, Joh. Jansen. (In Dutch.) Nederland. Kruidk. Arch. 56: 69-72. Jan. 1949. 451 N28

49401 KNAPP, J. G. The contributions of E. A. Stokdyk to agricultural cooperation. Amer. Coop. (1948) 20: 59-73. 1949. 280.29 Am3A

49402 LANJOUW, J. In memoriam, H. Uittien. (In Dutch.) Nederland. Kruidk. Arch. 56: 59-68. Jan. 1949. 451 N28

Includes list of his publications.

49403 MACFARLANE, W. 25 years with California agriculture. Plant Food Facts 10(10): 15-19. Nov./Dec. 1948. 57.8 P693

49404 MAHABALÉ, T. S. Professor F. O. Bower. Bombay. U. J., Sect. B, Biol. Sci. 17(3): 34-38. Nov. 1948. 513 B633

49405 PARKER, D. E., and MUESEBECK, C. F. W. Charles Walter Collins, 1882-1948. Ent. Soc. Wash. Proc. 51: 84-85. Apr. 1949. 420 W27

49406 PETRAK, F. Hans Sydow, 1879-1946. Sydowia 2: 1-25. 1948. 450 Sy2

Includes list of his publications.

49407 PHILLIPS, E. F. Biography of Langstroth. IV. Later achievements. Amer. Bee J. 89: 190. Apr. 1949. 424.8 Am3

49408 POUZIN, P. Problèmes agricoles d'un temps difficile et de toujours (1920-1945). Acad. d'Agr. de France 35: 75-77. Jan. 19/26, 1949. 14 P215Bc

49409 PROFESSOR Chukichi Harukawa, in honor of the sixty-first anniversary of his birth. (In Japanese.) Botyu-Kagaku 1948(10): 2-8. Sept. 1948. 421 B65

Contribution of Professor Chukichi Harukawa to economic entomology, p. 4-8.

49410 READ, F. W. Tribute to Dr. Alexander Cance. Amer. Coop. (1948) 20: 55-57. 1949. 280.29 Am3A

49411 SHAKHOVSKAIA, A. D. From the correspondence of V. I. Vernadskii. (On the 85th anniversary of his birth). (In Russian.) Priroda 37(9): 72-77. Sept. 1948. 410 P933

49412 SIBILIA, C. Lionello Petri as a teacher and a researcher. (In Italian.) Ann. della Sper. Agr. (n. s.) 2(2, sup.): XVII-XIX. 1948. 16 An76

49413 TOFANI, M., and BELLUCCI, V. The agriculture of Maremma in its historic changes and development. (In Italian.) Ital. Agr. 86: 84-106. Feb./Mar. 1949. 16 It1G

49414 TSAO, S. W. My professor J. H. Comstock. (In Chinese.) Ent. News [Nanking] 2: 43-44. Oct. 1948. 421 En816  
English summary.

49415 VLAM, A. W. Historical geography. (In Dutch.) In Boor en spade, p. 58-62. Utrecht, Oosthoek, 1948. 56.9 B64  
English summary.

49416 WATSON, J. A. S. Yesterday and tomorrow. Young Farmer 17: 45-46. Mar./Apr. 1949. 10 Y82  
British farming history.

### HOME MANAGEMENT

49417 MONROE, M. M. Selecting and using pressure saucepans. Purdue U. Agr. Ext. B. 341, 19 p. 1948. 275.29 In2E

49418 MUSE, M. Saving time and steps in bedmaking. Vt. Agr. Expt. Sta. B. 551, 55 p. Mar. 1949. 100 V59

49419 PAGE, E. C. Your first dress. Mass. U. Agr. Ext. Leaflet 222, 20 p. Feb. 1949. 275.29 M381L

49420 SMITH, M. Cotton shirts for men and boys. U. S. D. A. Farmers' B. 1837, slightly rev., 14 p. Apr. 1949. 1 Ag84F

49421 STOLL, F., and MARTIN, M. E. Tools for sewing. Purdue U. Agr. Ext. B. 338, 20 p. 1948? 275.29 In2E

49422 U. S. EXTENSION SERV. A handbook for the observance of National Home Demonstration Week, May 1-7, 1949. Washington? 1949. 46 p. 1.913 A2T56

49423 WOMAN'S HOME COMPANION. Woman's Home Companion household book. Garden City, N. Y., Doubleday, 1948. 929 p. 321 W842

### INTERNATIONAL RELATIONS

49424 BALETTE, J. Cuatro palabras sobre la "FAO." Rev. Ganad. [San Salvador] 8(110/111): 25-27. Jan./Feb. 1949. 8 R3292



49425 BEERNINK, H. J. Food and world peace. Report of second annual conference, International Federation of Agricultural Producers, Paris, France, 1948. Washcoegg 23(3): 4-5, 31. Aug. 1948. 47.8 W27

49426 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. What FAO has done. Food and Agr. Organ. United Nations. 1/Misc./45, 6 p. July 16, 1948. 389.9 F735lm

49427 HANAU, A. Bericht über die teilnahme an der 4. tagung der Ernährungs- und Landwirtschaftsorganisation der Vereinten Nationen (FAO) vom 15.-29. november 1948 in Washington (D. C.) USA. n. p., 1949. 33 p. 389.9 F735Be

49428 INTER-AMERICAN CONFERENCE OF AGRICULTURE, 3, CARACAS, 1945. COMITÉ EJECUTIVO. Actividades del Comité Ejecutivo de la tercera Conferencia Interamericana de Agricultura y de su Secretaría General, 19 de febrero de 1946 a 30 de junio de 1948. Caracas, "El Compas," 1948? 152 p. (Cuadernos Verdes. Ser. Internacional. 18) 5 In8203Apa

49429 INTER-AMERICAN INSTITUTE OF AGRICULTURAL SCIENCES. ADMINISTRATIVE COMMITTEE. Report on the meetings, held in Turrialba, Costa Rica, March 25-28, 1948. Washington, D. C., Pan Amer. Union, 1949? 110 p. 28 In833

49430 INTER-AMERICAN INSTITUTE OF AGRICULTURAL SCIENCES. ADMINISTRATIVE COMMITTEE. Report on the meetings, held in Washington, D. C., November 11-15, 1948. Washington, D. C., Pan Amer. Union, 1949? 93 p. 28 In833

49431 PATERSON, G. R. The Food and Agriculture Organization of the United Nations. Overseas Rpt. Agr. Devlpmt. 24, 7 p. Mar. 1949. 281.9 C16420

49432 PERRON, M. L'agriculture organisée sur le plan international. Foyer Rur. [Montreal] 8(7): 3. Apr. 1949. 7 F83

On the Food and Agriculture Organization of the United Nations.

#### METEOROLOGY

49433 BERGEIRO, J. M. La provocación artificial de la lluvia. Uruguay. Min. de Ganad. y Agr. B. Inform. 6(259): 17. Feb. 24, 1949. 9.9 G15B

49434 BURGOS, J. J. La estación agrometeorológica. Bolsa de Cereales, Buenos Aires. Rev. 36(1889): 12, 20-24. (Cont.) Mar. 24, 1949. 287 B866

49435 ÇOLAŞAN, U. E. Condition atmosphérique dans notre pays au cours des huit derniers mois de l'année agricole 1947-1948. (In Turkish.) Türkiye Ziraat Bankası. Üç Ayda Bir Çıkar 3(9/10): 9-11. Jan./June 1948. 280.9 T842 Turkey.

49436 HARRIS, B. K., and ODLAND, T. E. Rhode Island weather. R. I. Agr. Expt. Sta. B. 299, 32 p. Nov. 1948. 100 R34S

49437 KRYLOV, A. Soviet science combats drought. (In Russian.) Interagra 2: 244-248. 1948. 28 In825 English summary.

49438 LUGEON, J. Wettervorhersage und landwirtschaft. Schweiz. Landw. Monatsh. 27: 66-71. Feb. 20, 1949. 17 Sch93

49439 MAWKE, B. L. La meteorología y la agricultura. Rev. Ganad. [Habana] 9(4): 39. Apr. 1949. 49 R321

49440 NELSON, M. How's the weather? Here's what Iowa State is doing to help farmers answer the question, vital to agriculture since primitive man first buried seeds in the soil. Iowa Agriculturist 47(8): 7-9. Mar. 1949. 6 lo9

49441 PARWELL, C. A. Experimentos pasados y perspectivas futuras de la producción de lluvia artificial. Zafra 2(13): 34-37. Jan. 1949. 65.8 Z12

49442 POTVIN, A. A simple method of dew measurement. Forestry Chron. 25: 52-53. Mar. 1949. 99.8 F7623

49443 SHASHKO, D. I. Agro-climatic zones and precipitation districts of Western Siberia and of the north-eastern regions of Kazakhstan. (In Russian.) Vsesoiuzn. Akad. Sel'skokhoz. Nauk im. V. I. Lenina. Dok. 13(4): 3-9. 1948. 20 Akl

49444 STAPLETON, H. N. Meteorological observations for December 1948. Mass. Agr. Expt. Sta. Met. Ser. B. 720, 4 p. Dec. 1948. 100 M38H

49445 STAUBER, H. Versteppungsgefahr und klimaverschlechterung. Grüne 77: 144-151. Feb. 11, 1949. 17 Sch9

49446 THERON, J. J. The causes of drought. (In Afrikaans.) Landbouweekblad 30(1549): 32-33. Mar. 23, 1949. 24 L232

49447 WHITMORE, J. S. Rains fall to design of nature's architecture; survey of relationship between climate and physical geography of South Africa. Farmer's Weekly [Bloemfontein] 76: 56-57, 59, 61, 113. Feb. 16, 1949. 24 F225

#### PERSONNEL

49448 U. S. COMMISSION ON ORGANIZATION OF THE EXECUTIVE BR. OF THE GOVERNMENT. Report of the Hoover Commission on personnel management. Impact of recommendations on the Department of Agriculture. Washington, 1949? 3 p. 173 Or3Rep

49449 U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Opportunities for career service in the United States Department of Agriculture. U. S. D. A. Misc. P. 675, 52 p. Nov. 1948. 1 Ag84M

#### RESEARCH

49450 ANDRE, F., and BEELER, R., comps. What's new in farm science; annual report Wisconsin Agricultural Experiment Station, 1946/47. II. Wis. Agr. Expt. Sta. B. 480, 86 p. Dec. 1948. 100 W75

49451 ASTURIAS B., E. Lo que vimos en el Instituto Agropecuario de Chocó. Asoc. Gen. de Agr. [Guatemala]. B. 206: 3, 207: 2. Mar. 19-26, 1949. 8 As52

49452 BAILOV, D. Les tâches actuelles des recherches agricoles dans les pays slaves et ceux de la démocratie populaire et leur solution en commun. (In Russian.) Interagra 2: 284-297. 1948. 28 In825 French summary.

49453 BARTLETT, K. A. Federal Experiment Station in Puerto Rico. Rev. Azucarera 2: 23-25, 59. 1948. 65.8 R325

49454 BOEUF, F., and VESSEREAU, A. Recherche et expérimentation en agriculture. v. 1. Objectifs de la recherche agronomique; méthodes d'expérimentation, by F. Boeuf. Paris, Baillière, 1948. 490 p. 281 B633

49455 CHOUARD, P. Remarques sur l'organisation des recherches scientifiques appliquées à l'agriculture aux Etats-Unis d'Amérique. Acad. d'Agr. de France 35: 47-53. Jan. 5/12, 1949. 14 P215Bc

49456 EDSON, A. W. The West Central Experiment Station. Minn. Farm and Home Sci. [Minn. Sta.] 6(2): 8-10. Feb. 1949. 100 M668

49457 FERRO, F. La investigación agrícola en Cuba y sus instituciones. Cuba. Min. de Agr. Rev. (ser. 6) 31(2): 79-96. July/Dec. 1948. 8 Ag88Re

49458 FISH, G. Nauka izobilija; tri povesti [Science of abundance]. Moskva, Sovetskiĭ Pisatel', 1948. 225 p. 33.31 F52N

Research in U. S. S. R.

49459 GARCÍA MENÉNDEZ, B. Los hombres de ciencia. Cult. Mod. 30: 142. Apr. 1947. 15 C89

Research.

49460 GEORGIA. COSTAL PLAIN EXPERIMENT STATION. Twenty-eighth annual report, 1947-1948. Ga. Coastal Plain Agr. Expt. Sta. B. 46, 62 p. July 1948. 100 G292

49461 HAMMAR, G. Herröknä Experimentation Farm 1948. (In Swedish.) Svenska Fåravelsför. Tidskr. 29: 30-36. 1949. 45.9 Sv2

49462 HAWAII. AGRICULTURAL EXPERIMENT STATION. Report of the University of Hawaii Agricultural Experiment Station for the biennium ending June 30, 1948. Honolulu, 1948. 171 p. 100 H313

49463 MASSACHUSETTS. AGRICULTURAL EXPERIMENT STATION. Annual report, 1947/48, by A. H. Lindsey. Mass. Agr. Expt. Sta. B. 449, 80 p. Sept. 1948. 100 M38H

49464 MINNESOTA. UNIVERSITY. HORMEL INSTITUTE. Annual report, 1947-48. 1949? 60 p. 330.9 M663

Agricultural research.

49465 MISSISSIPPI. AGRICULTURAL EXPERIMENT STATION. Highlights of the work of the Mississippi Experiment Station; sixty-first annual report, 1947/48. State College? 1948? 59 p. 100 M69



49466 MOSCOW. TIMIRIAZEVSKAYA SEL'SKO-KHOZIAISTVENNAYA AKADEMIYA. Sbornik studenteskikh nauchno-issledovatel'skikh rabot [A collection of student scientific research works]. Moskva, 1948. 100 p. 106 M852Sb

49467 NEVILLE, H. A. D. A scheme for agricultural research [Great Britain]. Brit. Agr. J. 1: 114-118. Autumn 1948. 10 B776

49468 NORWAY. STATENS FORSØKSGÅRD PÅ VOLL. Report of the State Experimental Farm at Voll. Articles by L. Brun, H. J. Eikeland. (In Norwegian.) Norway. Statens Forsøksgård på Voll. Meld. 33/34, 118 p. Oslo, 1948. 104 V88

49469 SCIENCE in the service of the farmer. Way Ahead 1(3): 65-67. Spring, 1948. 280.8 W362 Netherlands.

49470 SOUTHERN RHODESIA. DEPT. OF AGRICULTURE AND LANDS. Annual report of experiments, season 1946-47. South. Rhodesia. Dept. Agr. and Lands. B. 1458, 17 p. 1948. 24 R345

49471 TROTTER, I. P. Agricultural research and extension in the Orient. Foreign Agr. 13: 64-67. Mar. 1949. 1.9 Ec7For

49472 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Important recent achievements of Department of Agriculture scientists. Rev. Washington? 1949. 26 p. ([Rpt.] No. 6) 1.914 A2M85

49473 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Two blades of grass, by T. S. Harding and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

49474 VIENNA. HOCHSCHULE FÜR BODENKULTUR. Jahrbuch, 75, 1947. Wien, 1948. 239 p. 105.9 V67J

49475 WEST VIRGINIA. UNIVERSITY. Your university and your farm; the dollars and cents story of benefits of farm research in West Virginia. Morgantown, 1948. 4 p. (W. Va. U. B. Ser. 49, No. 5-III) 100 W52Y

## STATISTICS

49476 KISHEN, K. On fractional replication of the general symmetrical factorial design. Indian Soc. Agr. Statis. J. 1: 91-106. 1948. 22 In292

49477 MANTOVANI, J. R. A estatística agrícola nos estados Unidos da América [Agricultural statistics of the United States of America]. Rio Grande do Sul. Depto. Estad. de Estatís., 1948. 41 p. 255.3 R475P

49478 NARAIN, R. D. A new approach to sampling distributions of the multivariate normal theory. I. Indian Soc. Agr. Statis. J. 1: 59-69. 1948. 22 In292

49479 NARAIN, R. D. On the distribution of estimated error components in analysis of variance and covariance. Indian Soc. Agr. Statis. J. 1: 70-79. 1948. 22 In292

49480 NATU, W. R. Statistical organisation for India with special reference to agriculture. Indian Soc. Agr. Statis. J. 1: 19-33. 1948. 22 In292

49481 PANSE, V. G. Statistical organisation for India. Indian Soc. Agr. Statis. J. 1: 12-18. 1948. 22 In292

49482 PRIMA, S. DI. Principal statistical calculations and applications for research in the field of agriculture. (In Italian.) Ann. della Sper. Agr. (n. s.) 2(5): I-LXXXII. 1948. 16 An76

English summary.  
49483 SHANMUKHAM CHETTY, R. K. Symposium on "statistical organisation for India with special reference to agriculture." Indian Soc. Agr. Statis. J. 1: 8-11. 1948. 22 In292

49484 STEISKAL, L. Problems of agricultural statistics, coordination of research methods and of publications of statistical data with the view of their comparison. (In Russian.) Interagra 2: 321-324. 1948. 28 In825

English summary.



U. S. D. A. PUBLICATIONS

Includes publications of the United States Department of Agriculture received in the Library during the preceding month, except restricted publications and materials issued for internal administrative use rather than for public distribution.

Periodicals issued by the Department are listed in the November issue only; articles in them are indexed currently.

Domestic requests for publications in the various Department series will be filled free upon application to the Office of Information, United States Department of Agriculture, Washington 25, D. C., as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington 25, D. C.

Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

Foreign institutions, organizations and agencies which issue publications may obtain United States Department of Agriculture publications in exchange by writing to the United States Department of Agriculture Library, Washington 25, D. C.

Agricultural Information Series

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Food for families with school children. U. S. D. A. AIS-71, slightly rev., 24 p. Mar. 1949. 1 Ag84Ai

Bibliographical Bulletin

WIEBE, R., and NOWAKOWSKA, J. The technical literature of agricultural motor fuels, including physical and chemical properties, engine performance, economics, patents, and books. U. S. D. A. Bibliog. B. 10, 259 p. Feb. 1949. 1 Ag84Bi

Circulars

CORRELL, D. S. Collecting wild potatoes in Mexico. U. S. D. A. C. 797, 40 p. Dec. 1948. 1 Ag84C

HARDY, J. I. Feathers from domestic and wild fowl. U. S. D. A. C. 803, 28 p. Ref. Feb. 1949. 1 Ag84C

HARDY, T. M. P., and HARDY, J. I. Animal fibers used in brushes. U. S. D. A. C. 802, 15 p. Ref. Jan. 1949. 1 Ag84C

KELLOGG, C. E., BASSETT, C. F., and ENDERS, R. K. Mink raising. U. S. D. A. C. 801, 42 p. Sept. 1948. 1 Ag84C

MCKEE, R., and SCHOTH, H. A. Birdsfoot trefoil [*Lotus corniculatus*] and big trefoil [*Lotus uliginosus*]. U. S. D. A. C. 625, rev., 14 p. Ref. Feb. 1949. 1 Ag84C

SCHWARTZ, B., IMES, M., and FOSTER, A. O. Parasites and parasitic diseases of horses. U. S. D. A. C. 148, rev., 56 p. July 1948. 1 Ag84C

Farmers' Bulletins

BISHOPP, F. C., LAAKE, E. W., and WELLS, R. W. Cattle grubs or heel flies [*Hypoderma*] with suggestions for their control. U. S. D. A. Farmers' B. 1596, rev., 21 p. Jan. 1949. 1 Ag84F

COOPER, M. R. Getting started in farming. U. S. D. A. Farmers' B. 1961, slightly rev., 34 p. Jan. 1949. 1 Ag84F

CRUMB, S. E. Tobacco cutworms and their control. U. S. D. A. Farmers' B. 1494, slightly rev., 14 p. Jan. 1949. 1 Ag84F

MCKEE, R., and SCHOTH, H. A. Vetch culture and uses. U. S. D. A. Farmers' B. 1740, slightly rev., 23 p. Jan. 1949. 1 Ag84F

SMITH, M. Cotton shirts for men and boys. U. S. D. A. Farmers' B. 1837, slightly rev., 14 p. Apr. 1949. 1 Ag84F

Miscellaneous Publications

CLAY, F. W. List of available publications of the United States Department of Agriculture. U. S. D. A. Misc. P. 60, rev. 184 p. Nov. 1948. 1 Ag84M

RAMSEY, G. B., WIAINT, J. S., and SMITH, M. A. Market diseases of fruits and vegetables: potatoes. U. S. D. A. Misc. P. 98, rev., 60 p. Ref. Jan. 1949. 1 Ag84M

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Guiding family spending. U. S. D. A. Misc. P. 661, 26 p. Mar. 1949. 1 Ag84M

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Motion pictures of the United States Department of Agriculture, 1949. U. S. D. A. Misc. P. 673, 53 p. 1949. 1 Ag84M

U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Opportunities for career service in the United States Department of Agriculture. U. S. D. A. Misc. P. 675, 52 p. Nov. 1948. 1 Ag84M

Program Aid

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Storage for school lunch food and supplies. U. S. D. A. PA-63, 11 p. Mar. 1949. 1 Ag84Pro

U. S. Production and Marketing Administration cooperating.

U. S. DEPT. OF AGRICULTURE. A step-saving kitchen; motion picture in color. U. S. D. A. PA-67, 2 p. 1949? 1 Ag84Pro

U. S. FOREST SERV. You and forest fires. U. S. D. A. PA-64, 14 p. Dec. 1948. 1 Ag84Pro

Puerto Rico. Federal Experiment Station

PLANK, H. K., and WINTERS, H. F. Insect and other animal pests of cinchona and their control in Puerto Rico. Puerto Rico. Fed. Expt. Sta. Mayaguez. B. 46, 16 p. Ref. Feb. 1949. 1 Ex65

Technical Bulletins

BATCHELDER, C. H. European corn borer [*Pyrausta nubilalis*] location on the corn plant as related to insecticidal control. U. S. D. A. Tech. B. 976, 20 p. Ref. Mar. 1949. 1 Ag84Te

THARP, W. H., and others. Yield and composition of cottonseed as influenced by fertilization and other environmental factors. U. S. D. A. Tech. B. 974, 153 p. Ref. Feb. 1949. 1 Ag84Te

J. J. Skinner, J. H. Turner, Jr., R. P. Bledsoe, and H. B. Brown, joint authors.

Unnumbered Publications

U. S. DEPT. OF AGRICULTURE. SAFETY COUNCIL. Clean up or be cleaned out! 1949 Spring Clean-Up Week. Washington, 1949. 4 p. 1.90 C3Sa1

AGRICULTURAL AND INDUSTRIAL CHEMISTRY, BUREAU OF

COUCH, J. F., and others. Tartary buckwheat as a source of rutin. U. S. Bur. Agr. and Indus. Chem. AIC-222, 3 p. Feb. 1949. 1.932 A2Ag82

J. Naghski, J. W. White, J. W. Taylor, W. J. Sando, and O. E. Street, joint authors.

FEIN, M. L. Portable water-jet pumps. U. S. Bur. Agr. and Indus. Chem. AIC-223, 5 p. Feb. 1949. 1.932 A2Ag82

INTERNATIONAL COMMISSION FOR THE STUDY OF FATTY MATERIALS. Unified methods for the analysis of fatty materials; third report, 1948. U. S. Bur. Agr. and Indus. Chem. AIC-225, 34 p. Jan. 25, 1949. 1.932 A2Ag82

Translated from the French by C. L. Hoffpauir. JARRELL, T. D. Lists of publications and patents of Bureau of Agricultural and Industrial Chemistry. U. S. Bur. Agr. and Indus. Chem. AIC-224, 30 p. 1948. 1.932 A2Ag82

KIME, J. A. Enter, new cotton products. U. S. Bur. Agr. and Indus. Chem. AIC-229, 7 p. Mar. 15, 1949. 1.932 A2Ag82

Presented before the annual meeting of the Texas Chemurgic Council, Houston, Mar. 5, 1949.



U. S. BUR. OF AGRICULTURAL AND INDUSTRIAL CHEMISTRY. Bureau of Agricultural and Industrial Chemistry 87 years old. U. S. D. A. AIC-169, rev., 4 p. Mar. 1949. 1.932 A2Ag82

U. S. SOUTHERN REGIONAL RESEARCH LABORATORY. Publications and patents, July-December 1948. U. S. Bur. Agr. and Indus. Chem. AIC-1C3, sup. 2, 18 p. Feb. 15, 1949. 1.932 A2Ag82

#### AGRICULTURAL ECONOMICS, BUREAU OF

U. S. BUR. OF AGRICULTURAL ECONOMICS. Annual livestock report. Austin, 1949. 2 p. 1.941 H8L755

Similar reports issued from Boise, Fargo, Helena, Oklahoma City, and Orlando.

U. S. BUR. OF AGRICULTURAL ECONOMICS. Early spring lamb crop, 1949. Columbia, Mo., 1949. 2 p. 1.9 Ec742E

Similar report issued at Boise, Idaho.

U. S. BUR. OF AGRICULTURAL ECONOMICS. The farm cost situation. U. S. Bur. Agr. Econ. FCS-6, 19 p. Mar. 1949. 1.941 F8F222

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm income, farm debts and balance sheet. Washington, 1949. 5 p. 1.941 F8F224

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm machinery, by D. O. Mesick. Washington, 1949. 5 p. 1.941 A2F224

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm production, disposition, cash receipts and gross income for chickens and eggs, 1947-1948. by E. S. Kimball, F. W. Smith, and R. F. Moore. Washington, 1949. 16 p. 1.9 Ec71Fpc

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm production, disposition, cash receipts and gross income for turkeys, 1947-1948. Washington, 1949. 8 p. 1.942 D22T84

U. S. BUR. OF AGRICULTURAL ECONOMICS. Farm real estate activity in twelve Western counties, by O. C. Fuqua and K. S. Landstrom. Washington, 1949. 16 p. 1.941 L8F224

U. S. BUR. OF AGRICULTURAL ECONOMICS. Honey report, 1948. Boise, 1949. 2 p. 1.941 S8H753

U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho milk production, 1948. Boise, 1949. 2 p. 1.941 H8M62

U. S. BUR. OF AGRICULTURAL ECONOMICS. Idaho rapeseed production in 1948. Boise, 1949. 1 p. 1.941 H8R18

U. S. BUR. OF AGRICULTURAL ECONOMICS. Merchantable potato stocks unusually large on February 1. Portland, Oreg., 1949. 2 p. 1.941 H8P843

U. S. BUR. OF AGRICULTURAL ECONOMICS. 1948 flax fiber production with comparisons. Portland, Oreg., 1949. 1 p. 1.941 H8F61

U. S. BUR. OF AGRICULTURAL ECONOMICS. Storm losses of livestock to February 1. Washington, 1949. 2 p. 1.941 S8L7522

U. S. BUR. OF AGRICULTURAL ECONOMICS. United States potato crop. Boston, 1948. 4 p. 1.941 H8P844

U. S. BUR. OF AGRICULTURAL ECONOMICS. Wool and mohair production, 1948. Portland, Oreg., 1949. 2 p. 1.941 H8F44

U. S. BUR. OF AGRICULTURAL ECONOMICS. Wool production and income, 1947-48. Washington, 1949. 2 p. 1.9 Ec713Wp

U. S. BUR. OF AGRICULTURAL ECONOMICS. The world sugar situation. Washington, 1949. 23 p. 1.9 Ec752Ws

#### AGRICULTURAL RESEARCH ADMINISTRATION

CARDON, P. V. Possibilities for new chemurgic crops. Washington, U. S. Agr. Res. Admin., 1949. 13 p. 1.965 A2C17

Talk before the 14th Annual Chemurgic Conference, Memphis, Apr. 1, 1949.

#### ANIMAL INDUSTRY, BUREAU OF

U. S. BUR. OF ANIMAL INDUSTRY. Hatcheries and dealers participating in the National Poultry Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 36, rev., 77 p. Jan. 1949. 1.9 An52Ah  
Second supplement, April 1949.

U. S. BUR. OF ANIMAL INDUSTRY. Hatcheries and dealers participating in the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 105, rev., 19 p. Feb. 1949. 1.9 An52Ah

Changes to March 1, 1949, and to April 5, 1949, are reported in supplements.

U. S. BUR. OF ANIMAL INDUSTRY. Official control of pullorum disease, in chickens, in the United States. Washington? 1949? 1 p. 1.972 A20f2

U. S. BUR. OF ANIMAL INDUSTRY. Rules and regulations relating to viruses, serums, toxins, and analogous products, and to certain organisms and vectors, effective March 1, 1949. U. S. Bur. Anim. Indus. B. A. I. Order 381. 85 p. 1949. 1 An50

U. S. BUR. OF ANIMAL INDUSTRY. Turkey breeders participating in the U. S. Record of Performance breeding stage of the National Turkey Improvement Plan. U. S. Bur. Anim. Indus. A. H. D. 110, rev., 4 p. Mar. 1949. 1.9 An52AH

#### DAIRY INDUSTRY, BUREAU OF

HODGSON, R. F. The dairy cow and grassland farming. U. S. Bur. Dairy Indus. BDIM-Inf-71, 14 p. Mar. 1949. 1.973 D4B34

Talk at the Eighth Annual Short Course, West Virginia University, Jackson's Mill, Jan. 6, 1949.

#### ENTOMOLOGY AND PLANT QUARANTINE, BUREAU OF

BOTTGER, G. T., YERINGTON, A. P., and GERTLER, S. I. Preliminary tests of certain phenylhydrazides as insecticides. U. S. Bur. Ent. and Plant Quar. E-769, 10 p. Mar. 1949. 1.9 En83

BOTTGER, G. T., and GERTLER, S. I. Preliminary tests on N-substituted m-nitrobenzamides as insecticides. U. S. Bur. Ent. and Plant Quar. E-773, 9 p. Mar. 1949. 1.9 En83

EWING, K. P., and PARENCIA, C. R., JR. Experiments in early-season application of insecticides for cotton-insect control in Wharton County, Tex., during 1948. U. S. Bur. Ent. and Plant Quar. E-772, 6 p. Mar. 1949. 1.9 En83

FAHEY, J. E., and RUSK, H. W. A leaf punch for sampling insecticide residues on foliage. U. S. Bur. Ent. and Plant Quar. ET-264, 2 p. Mar. 1949. 1.9 En83Et

HARRISON, P. K. Laboratory tests of new compounds as insecticides against the sweetpotato weevil [*Cylas formicarius elegantulus*]. U. S. Bur. Ent. and Plant Quar. E-770, 5 p. Mar. 1949. 1.9 En83

MAYER, E. L., and others. Nicotine insecticides. V. Search for synergists. U. S. Bur. Ent. and Plant Quar. E-768, 16 p. Mar. 1949. 1.9 En83  
E. R. McGovran, F. B. Talley, C. R. Smith, D. H. Saunders, and C. F. Woodward, joint authors.

SHOTWELL, R. L. The comparative effectiveness of poisoned bait and sprays for grasshopper control in Lyman County, S. Dak., 1947. U. S. Bur. Ent. and Plant Quar. E-771, 22 p. Mar. 1949. 1.9 En83

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Black stem rust quarantine and regulations. U. S. Bur. Ent. and Plant Quar. B.E.P.Q.-Q. 38, 6 p. Mar. 2, 1949. 1 F31

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Insect pest survey: summary of insect conditions in 1948. Washington? 1949? 23 p. 1.967 A2Su6

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant quarantine import restrictions of the British Colony of Trinidad and Tobago. U. S. Bur. Ent. and Plant Quar. B.E.P.Q. 418, rev., 8 p. Mar. 16, 1949. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Plant-quarantine import restrictions of the Republic of Venezuela. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 497, 2d rev., 4 p. Mar. 22, 1949. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Summary of State nursery stock shipping requirements and plant quarantines and regulations affecting interstate shipments. U. S. Bur. Ent. and Plant Quar. B. E. P. Q. 578-4, 9 p. Mar. 23, 1949. 1.9 F73

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Synthesis of pyrethrin-like esters, by F. C. Bishopp. Washington, 1949. 2 p. 1.967 A2Sy7



U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. White-fringed beetle [*Graphognathus*] quarantine and regulations. U. S. Bur. Ent. and Plant Quar. B.E.P.Q.-Q. 72, 18 p. Mar. 11, 1949. 1 F31

U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. DIV. OF INSECTS AFFECTING MAN AND ANIMALS. The new insecticides for controlling external parasites of livestock. U. S. Bur. Ent. and Plant Quar. E-762, rev., 25 p. Apr. 1949. 1.9 En83

WHITE, G. D. An apparatus for rapidly inspecting both sides of small objects. U. S. Bur. Ent. and Plant Quar. ET-265, 4 p. Mar. 1949. 1.9 En83Et

#### EXTENSION SERVICE

BOWMAN, A. E. Qualifications of a State 4-H Club leader. Washington, U. S. Ext. Serv., 1949. 6 p. 1.913 A2B68  
Presented at National 4-H Club Congress, Dec. 1, 1948, at Chicago.

COMBS, W. B. Comments on the hundred-weight versus the bushel. Washington, U. S. Ext. Serv., 1949. 4 p. 1.913 A2C732  
Talk at the Chicago Grain Dealers' National Association meeting, Oct. 1, 1948.

CRILE, L. Some findings from studies of farm and home radio programs. U. S. Ext. Serv. C. 457, 15 p. Feb. 1949. 1.9 Ex892Esc

DILL, M. H. Importance of landscape architecture in community planning. Washington, U. S. Ext. Serv., 1949. 4 p. 1.913 A2L23

Talk at Conference of Garden Leaders, Jan. 10 and 11, Washington, D. C.

U. S. EXTENSION SERV. Agricultural engineering extension work. Washington? 1949. 12 p. 1.913 E5Ag8

U. S. EXTENSION SERV. Announcement, Nineteenth National 4-H Club Camp, Washington, D. C., June 15-22, 1949. Washington, 1949. 12 p. 1.9 Ex892Fba

U. S. EXTENSION SERV. Educational work in grain grading in 1948, by W. B. Combs. Chicago, 1949. 5 p. 1.913 A3Ed8

U. S. EXTENSION SERV. A handbook for the observance of National Home Demonstration Week, May 1-7, 1949. Washington? 1949. 46 p. 1.913 A2T56

U. S. EXTENSION SERV. Observance of Rural Life Sunday by 4-H Clubs, 1949, by G. L. Warren. Washington, 1949. 22 p. 1.913 F30b7

U. S. EXTENSION SERV. Report on the Foreign Student Program to the Land-Grant College Committee on extension organization and policy, by F. P. Frutchey. Washington, 1949. 2 p. 1.913 S2R29

U. S. EXTENSION SERV. The rural clergyman as a parish leader, by E. J. Niederfrank. Washington, 1949. 5 p. 1.913 A2N55  
Presented at the Vermont Rural Pastors' Conference, Burlington, Jan. 1949.

U. S. EXTENSION SERV. Some rural trends and what they mean, by E. J. Niederfrank. Washington, 1949. 4 p. 1.913 A2N55

U. S. EXTENSION SERV. State and assistant State leaders in 4-H Club work. Washington? 1949. 7 p. 1.913 F3St22

U. S. EXTENSION SERV. A summary of selected local, State, and national projects on community organization and development, by D. E. Lindstrom. Washington, 1949. 13 p. 1.913 A2Su68

U. S. EXTENSION SERV. Tips to follow when you hold a county-wide 4-H Club event. Washington? 1949. 6 p.-folder. 1.913 F3T49

WILSON, M. L. Abundance—what makes it possible in the United States. Washington, U. S. Ext. Serv., 1949. 11 p. 1.913 A2W69

Talk during the observance of the 37th Farm and Home Week, College of Agriculture, Ohio State University, Columbus, Mar. 24, 1949.

WILSON, M. L. The Green Promise—a fine example of cooperativeness. Washington, U. S. Ext. Serv., 1949. 2 p. 1.913 A2W69  
Statement made at the preview showing for Government officials of The Green Promise, Washington, D. C., Mar. 4, 1949.

#### FARM CREDIT ADMINISTRATION

KNAPP, J. G. Problems of cooperatives today. Washington? U. S. Farm Credit Admin., 1949. 13 p. 1.955 C2K72

Notes for talk at meeting of Indiana Farm Bureau Cooperative Association, Indianapolis, Mar. 9, 1949.

MCGEHEE, M. W. Technical and economic research for farmers' cooperatives; a digest of selected reports on recent and current research of interest to farmers' cooperatives. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Ref. List 4, 32 p. Oct. 1948. 1.955 C2R25

MCVEY, D. H., and SCEARCE, J. L. Working manual for cooperative cottonseed oil mill operators. U. S. Farm Credit Admin. Coop. Res. and Serv. Div. Misc. Rpt. 128, 48 p. Feb. 1949. 166.3 M68

U. S. FARM CREDIT ADMIN. Revised rules and regulations for production credit associations organized under the Farm Credit Act of 1933. Washington? 1949. 9 p. 1.955 A2R32

#### FARMERS HOME ADMINISTRATION

MARIS, P. V. Bettering our communities through improved living standards on the farm and in the home. Washington? U. S. Farmers Home Admin., 1949. 4 p. 1.95 T25A

Address at Annual Farmers and Home Makers Conference, Jefferson City, Mar. 17, 1949.

#### FEDERAL CROP INSURANCE CORPORATION

U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook, dollar coverage insurance. Washington? 1948. 12 p. 1.952 W564

U. S. FEDERAL CROP INSURANCE CORPORATION. Wheat sales handbook, monetary coverage insurance. Washington? 1948. 12 p. 1.952 W564

#### FOREIGN AGRICULTURAL RELATIONS, OFFICE OF

U. S. OFF. OF FOREIGN AGRICULTURAL RELATIONS. Rayon production in E. C. A. countries. Washington? 1949. 1 p. 1.943 R21

#### FOREST SERVICE

ANDERSON, I. V. Specifications for knotty western white pine veneer flitches. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 68, 1 p. Dec. 1948. 1.9622 N3R31

ANDERSON, I. V. Specifications for western larch peeler logs. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 69, 2 p. Dec. 1948. 1.9622 N3R31

BROWNE, F. L. A standard of quality for house paint. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1734, 5 p. Jan. 1949. 1.9 F761R

CHURCH, T. W., JR. Effects of defoliation on growth of certain conifers; a summary of research literature. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 22, 12 p. Ref. Feb. 1949. 1.9622 N2St22

FOBES, E. W. Aerial skidding by gravity. U. S. Forest Serv. Forest Prod. Lab. Impr. Harvesting Methods. Equip. Survey Notes. Mimeog. R1637-30, 2 p. Feb. 1949. 1.9 F761R

FOBES, E. W. Bark-peeling machines and methods. U. S. Forest Serv. Forest Prod. Lab. Mimeog. D1730, 22 p. Ref. Jan. 1949. 1.9 F761R

FOBES, E. W. Preloading pulpwood racks. U. S. Forest Serv. Forest Prod. Lab. Impr. Harvesting Methods. Equip. Survey Notes. Mimeog. R1637-28, 2 p. Nov. 1948. 1.9 F761R

FOBES, E. W. Racking short sawlogs for truck loading. U. S. Forest Serv. Forest Prod. Lab. Impr. Harvesting Methods. Equip. Survey Notes. Mimeog. R1637-31, 2 p. Feb. 1949. 1.9 F761R

FOBES, E. W. Self-loader for long logs. U. S. Forest Serv. Forest Prod. Lab. Impr. Harvesting Methods. Equip. Survey Notes. Mimeog. R1637-32, 2 p. Feb. 1949. 1.9 F761R



FOBES, E. W. Single line continuously moving cable systems. U. S. Forest Serv. Forest Prod. Lab. Impr. Harvesting Methods. Equip. Survey Notes. Mimeog. R1637-29, 4 p. Jan. 1949. 1.9 F761R

GLEASON, C. H. How to sow mustard in burned watersheds of southern California. U. S. Forest Serv. Calif. Forest and Range Expt. Sta. Forest Res. Note 37, rev., 32 p. Sept. 1948. 1.9 F7626R

HELMERS, A. E. Disintegration of girdled western hemlock and grand fir. U. S. Forest Serv. North Rocky Mountain Forest & Range Expt. Sta. Paper 17, 14 p. Dec. 1948. 1.9622 N3St1

HUEY, B. M. Christmas tree shipments increase. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 71, 6 p. Jan. 1949. 1.9622 N3R31

HUTCHISON, O. K. Aerial photo alignment guide. U. S. Forest Serv. Central States Forest Expt. Sta. Note 50, 2 p. Dec. 1948. 1.9 F76252S

JOHNSON, F. A., and ENGSTROM, W. Taper tables for western hemlock. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 51, 5 p. Mar. 1, 1949. 1.9 F7629Fr

KIMBROUGH, E. F. Making paper tubes for plant propagation. U. S. Forest Serv. Calif. Forest and Range Expt. Sta. Forest Res. Note 59, 5 p. Jan. 1949. 1.9 F7626R

LANE, R. D., and FASSNACHT, D. L. Young pine plantation thinnings yield merchantable products. U. S. Forest Serv. Central States Forest Expt. Sta. Note 51, 2 p. Dec. 1948. 1.9 F76252S

LEBARRON, R. K. Review of published information on the larch-Douglasfir type. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 15, 14 p. Ref. Nov. 1948. 1.9622 N3St1

MCLINTOCK, T. F. Mapping vulnerability of spruce-fir stands in the Northeast to spruce budworm [*Choristoneura fumiferana*] attack. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 21, 20 p. Jan. 1949. 1.9622 N2St22

MINCKLER, L. S., FASSNACHT, D. L., and TRAIN, R. K. Growth and species evaluation of some unmanaged upland hardwoods in southern Illinois. U. S. Forest Serv. Cent. States Expt. Sta. Tech. Paper 110, 9 p. Nov. 1948. 1.9622 C3T222

MORGAN, J. T. The production of wood chips for coarse fiber in the Central States region. U. S. Forest Serv. Central States Forest Expt. Sta. Tech. Paper 111, 31 p. Feb. 1949. 1.9622 C3T222

MUELLER, L. A. Cottonwood railway tie test completed. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 67, 2 p. Dec. 1948. 1.9622 N3R31

NUTTING, A. D., RETTIE, J. C., and BANKS, W. G. Rehabilitation of fire-damaged forest lands in southwestern Maine. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 23, 21 p. Feb. 1949. 1.9622 N2St22

ROE, A. L. Thirty-nine years' growth in a cut-over larch stand. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 70, 6 p. Dec. 1948. 1.9622 N3R31

ROGERS, E. J. A short cut for scaling aerial photos. U. S. Forest Serv. Northeast. Forest Expt. Sta. Paper 20, 10 p. Nov. 1948. 1.9622 N2St22

SCHAEFER, V. J. The possibilities of modifying lightning storms in the northern Rockies. U. S. Forest Serv. North. Rocky Mountain Forest & Range Expt. Sta. Paper 19, 17 p. Jan. 1949. 1.9622 N3St1

STAEBLER, G. R., and SHAW, E. W. Cordwood volume tables for second-growth Douglas-fir. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Note 52, 3 p. Mar. 10, 1949. 1.9 F7629Fr

U. S. FOREST SERV. Coeur D'Alene National forest, Idaho. Washington? 1949. Map. 1 F765Ma

U. S. FOREST SERV. Forestry in a changing world, by J. D. B. Harrison. Washington? 1948. 12 p. 1.962 A2F7634

U. S. FOREST SERV. National forest fire report, calendar year 1948. Washington? 1949? 16 p. 1.962 A2N212

U. S. FOREST SERV. Our national forests; excerpt from report of the chief of the Forest Service, U. S. Dept. of Agriculture, 1948. Washington, 1949. 50 p. 1 F76Ou

U. S. FOREST SERV. State of Alabama, national forest areas by counties. Washington? 1948. 1 p. 1.962 A2St236

U. S. FOREST SERV. DIV. OF FOREST ECONOMICS. Publications of Forest Economics research personnel, 1928-1947. Washington? 1949. 90 p. L962 F4P96

U. S. FOREST SERV. NORTHERN ROCKY MOUNTAIN FOREST & RANGE EXPERIMENT STATION. A selected bibliography of range management literature published in 1947. Missoula, 1948. 14 p. (v.1, No. 2) 1.9622 N3Se4

U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. Annual report, 1948. Portland, Oreg., 1949. 51 p. 1.9622 P2An7

U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. A revised yield table for Douglasfir, by D. Bruce. Portland, Oreg., 1948. 17 p. 1.9622 P2R32

U. S. FOREST SERV. SOUTHERN FOREST EXPERIMENT STATION. Twenty-eighth annual report, 1948. New Orleans, 1949? 92 p. 1.9 F7624

VAUX, H. J. Some economic aspects of growing sugar pine in California. U. S. Forest Serv. Calif. Forest and Range Expt. Sta. Forest Res. Note 58, 33 p. Sept. 1948. 1.9 F7626R

WERREN, F. Fatigue of sandwich constructions for aircraft; cellular cellulose acetate core material with aluminum or fiberglass-laminate facings, tested in shear. U. S. Forest Serv. Forest Prod. Lab. Mimeog. 1559-F, 7 p. Dec. 1948. 1.9 F761R

#### HUMAN NUTRITION AND HOME ECONOMICS, BUREAU OF

CONFERENCE ON HOME FOOD FREEZING, WASHINGTON, 1949. Working outlines. I. Fruits. Washington, U. S. Bur. Human Nutr. and Home Econ., 1949. 54 p. Ref. 1.982 A2C764

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Eggs in the kitchen, restaurant, and home. Washington? 1949. 4 p. 1.982 A2Eg3

U. S. BUR. OF HUMAN NUTRITION AND HOME ECONOMICS. Family food consumption in Buffalo New York, winter 1948. U. S. Bur. Human Nutr. and Home Econ. Food Consumption Surveys. Prelim. Rpt. 4, 30 p. Feb. 28, 1949. 1.982 A2F738

#### INFORMATION, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Aerosols for home and greenhouse, by R. A. Fulton, F. F. Smith, R. H. Nelson, and D. Reynolds. Washington, 1949. 5 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. 4-H Club Week, by A. J. Loveland and M. L. Wilson. Washington? 1949. 3 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Important recent achievements of Department of Agriculture scientists. Rev. Washington? 1949. 26 p. ([Rpt.] No. 6) 1.914 A2M85

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Insect problems, by D. Hall and D. Lerch. Washington? 1949. 2 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Livestock losses in Western storms, by O. C. Stine, W. F. Callandar, F. W. Beier, Jr., and others. Washington, 1949. 6 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. More milk from your pastures, by L. A. Moore, R. E. Wagner, and K. M. Gapen. Washington? 1949. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Motor fuel from farm products, by R. T. Milner, R. Wiebe, and B. Burton. Washington, 1949. 3 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. New plants for old, by R. Heinen and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Poultry goals, by D. Termohlen and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Science and the Western range today, by C. K. Pearce, B. A. Christmas, and C. Herrell. Washington, 1949. 5 p. 1.914 R2R11



U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Seed to save the soil, by M. A. McCall, E. A. Hollowell, K. Beeson, and K. M. Gapen. Washington? 1949. 4 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Soil conservation, by A. V. MacCormack and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Spring planting, by P. Aylesworth, and R. Lewis. Washington, 1949. 2 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Two blades of grass, by T. S. Harding and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. You and the egg, by H. I. Miller and D. Lerch. Washington, 1949. 2 p. 1.914 R2R11

#### LIBRARY

FELDKAMP, C. L. Educational exhibits, a list of references. U. S. D. A. Libr. Libr. List 45, 4 p. Mar. 1949. 1.916 L612

#### PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING, BUREAU OF

HALLER, M. H., and others. Test shipments of Elberta peaches from South Carolina to New York, 1948. U. S. Bur. Plant Indus., Soils, and Agr. Engin. H. T. & S. Off. Rpt. 199, 10 p. Jan. 10, 1949. 1.9 P772Ht

M. A. Smith, J. Kaufman, and V. A. Reubelt, joint authors.

KRAMER, H. A. Drying combined rice. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Inform. Ser. 93, 17 p. Ref. July 1948. 1.9 R531I

MCBIRNEY, S. W. Present status of mechanical harvest of sugar beets. U. S. Bur. Plant Indus., Soils, and Agr. Engin. Inform. Ser. 94, 9 p. Mar. 1949. 1.9 R531I

#### PRODUCTION AND MARKETING ADMINISTRATION

PRICHARD, G. L. The fats and oils outlook. Washington? U. S. Prod. and Mktg. Admin., 1949. 6 p. 1.956 F26P93

Talk presented before the Soybean Processors Conference, University of Illinois, Urbana, March 30, 1949.

TRIGG, R. S. [The citrus industry.] Washington? U. S. Prod. and Mktg. Admin., 1949. 11 p. 1.956 A2T73

Talk at the Citrus Institute, San Bernardino, Mar. 19, 1949.

U. S. COMMODITY CREDIT CORPORATION. C. C. C. wheat loans on crops harvested in 1938 to 1947. Washington? 1948? 9 p. 1.957 C734

U. S. PRODUCTION AND MARKETING ADMIN. Regulations of the Secretary of Agriculture under the Tobacco Inspection Act of August 23, 1935 (49 Stat., 731) Amended regulations Dec. 29, 1948. Washington, 1949. 13 p. 1.956 A2R262

#### RURAL ELECTRIFICATION ADMINISTRATION

U. S. RURAL ELECTRIFICATION ADMIN. Charts and posters on electrical subjects. Rev. Washington, 1949. 5 p. 1.933 C38

U. S. RURAL ELECTRIFICATION ADMIN. Co-op leaders speak; a report of discussion on co-op education work at co-op management conference, Dec. 8-11, 1948, Washington, D. C. Washington? 1949. 9 p. 1.933 C783

U. S. RURAL ELECTRIFICATION ADMIN. Subject matter for proposed wiring school for cooperative electrification advisers. Washington? 1948. 52 p. 1.933 Su12

U. S. RURAL ELECTRIFICATION ADMIN. TECHNICAL STANDARDS COMMITTEE. List of materials acceptable for use on REA-financed systems. Washington? 1949. Variously paged. 1.933 L69

WICKARD, C. R. Power for progress. Washington? U. S. Rur. Electrification Admin., 1949. 5 p. 1.91 A2W63

Address before the Nebraska Statewide Association at Lincoln, Mar. 7, 1949.

WICKARD, C. R. Rural electrification progress in Oklahoma. Washington? U. S. Bur. Electrification Admin., 1949. 6 p. 1.91 A2W63

Address before the Oklahoma Statewide Electric Cooperative, Oklahoma City, Apr. 7, 1949.

#### SECRETARY, OFFICE OF

BRANNAN, C. F. American agriculture on a new frontier. Washington, U. S. D. A., 1949. 11 p. 1.91 A2B73

Talk before the National Farm Institute, Des Moines, Feb. 19, 1949.

BRANNAN, C. F. International Wheat Agreement. Washington, U. S. D. A., 1949. 2 p. 1.91 A2B73

Statement to press conference regarding the new International Wheat Agreement, Washington, D. C., Mar. 23, 1949.

BRANNAN, C. F. International Wheat Conference. Washington, U. S. D. A., 1949. 3 p. 1.91 A2B73

Statement at closing session of the conference, Washington, D. C., Mar. 23, 1949.

#### SOIL CONSERVATION SERVICE

BENNETT, H. H. The economy of soil conservation. Washington? U. S. Soil Conserv. Serv., 1949. 8 p. 1.96 Ad62

Address at Banker-Farmer meeting, Pulaski, Va., Mar. 25, 1949.

DYKES, J. C. The role of the contractor in soil conservation work. Washington? U. S. Soil Conserv. Serv., 1949. 2 p. 1.96 Ad6Dy

Remarks at the annual meeting of the Associated General Contractors of America, Mar. 1, 1949, at New York City.

HUFF, A. N. The hydraulic design of rectangular spillways. U. S. Soil Conserv. Serv. SCS-TP-71, slightly rev., 67 p. Nov. 1948. 1.96 Ad6Tp

UHLAND, R. E. Crop yields lowered by erosion. U. S. Soil Conserv. Serv. SCS-TP-75, 27 p. Feb. 1949. 1.96 Ad6Tp

U. S. SOIL CONSERVATION SERV. Abstracts of recent published material on soil and water conservation, by J. H. Stallings. Washington, 1949. 82 p. 1.96 Ad6Ab

U. S. SOIL CONSERVATION SERV. Commercial motion picture films. Rev. Upper Darby, 1949. 4 p. 1.9601 C73

U. S. SOIL CONSERVATION SERV. Soil Conservation districts; status of organization, calendar year 1948. Washington? 1949. 2 p. 1.96 A26Sod

U. S. SOIL CONSERVATION SERV. Summary group drainage work in Soil Conservation Districts with SCS assistance, calendar year 1948 and to date totals. Washington, 1949. 13 p. 1.96 Op2Sug

U. S. SOIL CONSERVATION SERV. Summary group irrigation work in Soil Conservation Districts with SCS assistance, calendar year 1948, and to date totals. Washington, 1948. 9 p. 1.96 Ad6Sum

WILLIAMS, D. A. The contribution of the Soil Conservation Service to the conservation and development of the Pacific Northwest. Portland, Oreg., U. S. Soil Conserv. Serv., 1948. 5 p. 1.9609 W67A

Statement at joint meeting of Columbia Basin Inter-Agency Committee and the Pacific Northwest Development Association, Spokane, Dec. 8, 1948.



STATE AGRICULTURAL EXPERIMENT STATIONPUBLICATIONS

June 1949

Includes State Agricultural Experiment Station publications received in the library during the preceding month.

Publications issued by the State Agricultural Experiment Stations are not available from the U. S. Department of Agriculture but are often available from the publishing experiment station.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

Arizona Agricultural Experiment Station, Tucson

SELTZER, R. E. Bulk-handling [costs] compared with the use of field boxes in the harvesting of desert grapefruit. *Ariz. Agr. Expt. Sta. Rpt.* 89, 7 p. Mar. 1949. 100 Ar4M

Arkansas Agricultural Experiment Station, Fayetteville

AREND, J. L., and JULANDER, O. Oak sites in the Arkansas Ozarks. *Ark. Agr. Expt. Sta. B.* 484, 42 p. Dec. 1948. 100 Ar42

California Agricultural Experiment Station, Berkeley

DOUGHERTY, J. E., BELTON, H. L., and ASMUNDSON, V. S. Poultry houses and equipment. *Calif. Agr. Expt. Sta. B.* 476, 75 p. Feb. 1949. 100 C12S

AKESSON, N. B., and HARVEY, W. A. Chemical weed-control equipment. *Calif. Agr. Expt. Sta. C.* 389, 43 p. Dec. 1948. 100 C12S

Colorado Agricultural Experiment Station, Fort Collins

ROHWER, C., and STOUT, O. V. P. Seepage losses from irrigation channels. *Colo. Agr. Expt. Sta. Tech. B.* 38, 100 p. Ref. Mar. 1948. 100 C71S

Connecticut (Storrs) Agricultural Experiment Station, Storrs

LANDAUER, W. The hatchability of chicken eggs as influenced by environment and heredity. *Conn. (Storrs) Agr. Expt. Sta. B.* 262, 231 p. Ref. Apr. 1948. 100 C76S

A revision of Bulletins 216 and 236.

Florida Agricultural Experiment Station, Gainesville

PEECH, M., and YOUNG, T. W. Chemical studies on soils from Florida citrus groves. *Fla. Agr. Expt. Sta. B.* 448, 88 p. Sept. 1948. 100 F66S

A revision of Bulletin 340.

BLASER, R. E., and others. Carpet grass and legume pastures in Florida; their growth, composition and contribution to beef production. *Fla. Agr. Expt. Sta. B.* 453, 36 p. Dec. 1948. 100 F66S

R. S. Glasscock, G. B. Killinger, and W. E. Stokes, joint authors.

SAMUELS, J. K., and others. Cost of handling Florida and Texas citrus fruits in fresh and processed form, 1946-47 season. *Fla. Agr. Expt. Sta. Spec. Rpt.*, 17 p. Aug. 10, 1948. 93.33 F663C

K. A. Fugett, H. W. Little, and H. G. Hamilton, joint authors.

Georgia Agricultural Experiment Station, Experiment

HAWKINS, B. S., and others. Cotton variety tests in Georgia, 1946-48. *Ga. Agr. Expt. Sta. C.* 159, 11 p. Mar. 1949. 100 G292

T. E. Steele, W. W. Ballard, and S. V. Stacy, joint authors.

Georgia Coastal Plain Experiment Station, TiftonGEORGIA. COSTAL PLAIN EXPERIMENT

STATION. Twenty-eighth annual report, 1947-1948. *Ga. Coastal Plain Agr. Expt. Sta. B.* 46, 62 p. July 1948. 100 G292

TURNER, J. H., JR. Introducing Pandora cotton for the Georgia Coastal Plain. *Ga. Coastal Plain Agr. Expt. Sta. C.* 12, 8 p. Dec. 1948. 100 G292

Hawaii Agricultural Experiment Station, HonoluluHAWAII. AGRICULTURAL EXPERIMENT STA-

TION. Report of the University of Hawaii Agricultural Experiment Station for the biennium ending June 30, 1948. Honolulu, 1948. 171 p. 100 H313

Kansas Agricultural Experiment Station, Manhattan

BERRY, R. L. Maintaining farm ownership by father-son farm transfers. *Kans. Agr. Expt. Sta. Agr. Econ. Rpt.* 37, 20 p. Mar. 1949. 281.9 K132

ANDERSON, A. H., and HILL, R. C. Rural communities and organizations; a study of group life in Ellis County, Kansas. *Kans. Agr. Expt. Sta. C., i. e. Contrib.* 143, 51 p. Mar. 1948. 281.2 K133

U. S. Bureau of Agricultural Economics cooperating.

Kentucky Agricultural Experiment Station, Lexington

VALLEAU, W. D., JOHNSON, E. M., and DIACHUN, S. Tobacco diseases. *Ky. Agr. Expt. Sta. B.* 437, rev., 59 p. July 1948. 100 K41

PRICE, W. A., and TILSON, H. G. Some items of interest to Kentucky nurserymen. *Ky. Agr. Expt. Sta. Regulat. B.* 67, 24 p. Oct. 1948. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. ENTOMOLOGY AND BOTANY DEPT. Seed inspection in Kentucky, 1947-48. *Ky. Agr. Expt. Sta. Regulat. B.* 68, 44 p. Dec. 1948. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. FEED AND FERTILIZER DEPT. Analyses of official fertilizer samples. *Ky. Agr. Expt. Sta. Regulat. B.* 69, 15 p. Dec. 1948. 100 K41

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. FEED AND FERTILIZER DEPT. Quarterly report on official feed samples analyzed. *Ky. Agr. Expt. Sta. Regulat. B.* 70, 26 p. July/Sept. 1948. 100 K41

Louisiana Agricultural Experiment Station, University Station, Baton Rouge

LOUISIANA. AGRICULTURAL EXPERIMENT STATION. CROPS AND SOILS DEPT. A preliminary report on experiments conducted, 1948. Baton Rouge, 1949? 83 p. 100 L936

Maine Agricultural Experiment Station, Orono

FREAR, D. E. H., HILBORN, M. T., and PRINCE, A. E. Pest control materials, 1949; fungicides, herbicides, insecticides, and rodenticides: trade names, companies, uses, and active ingredients. *Maine. Agr. Expt. Sta. Misc. P.* 613, 110 p. Jan. 1949. 100 M28S

BLUEBERRY INDUSTRY ADVISORY COMMITTEE. Blueberry research and service; progress report. *Maine. Agr. Expt. Sta. Misc. P.* 614, 16 p. Jan. 1949. 100 M28S

MERCHANT, C. H., and MCKENNEY, J. E. Adjustments in Maine agriculture and farm prices; a graphical and statistical presentation. *Maine. Agr. Expt. Sta. Misc. P.* 615, 69 p. Dec. 1948. 100 M28S

TOBEY, E. R., and others. Commercial agricultural seeds, 1948; fungicides and insecticides, 1948. *Maine. Agr. Expt. Sta. Off. Insp.* 210, 30 p. Dec. 1948. 100 M38S

F. Hyland, J. M. Goodine, and A. M. G. Soule, joint authors.



Massachusetts Agricultural Experiment Station, Amherst

FRANKLIN, H. J. Cranberry insects in Massachusetts. Mass. Agr. Expt. Sta. B. 445, 64 p. Jan. 1948. 100 M38H

LINDSEY, A. H. Annual report, 1947/48. Mass. Agr. Expt. Sta. B. 449, 80 p. Sept. 1948. 100 M38H

MASSACHUSETTS. SEED CONTROL SERV. Seed inspection. Mass. Agr. Expt. Sta. Control Ser. B. 139, 36 p. Nov. 1948. 100 M38H

STAPLETON, H. N. Meteorological observations for December 1948. Mass. Agr. Expt. Sta. Met. Ser. B. 720, 4 p. Dec. 1948. 100 M38H

Michigan Agricultural Experiment Station, East Lansing

BALL, R. C. Experimental use of fertilizer in the production of fish-food organisms and fish. Mich. Agr. Expt. Sta. Tech. B. 210, 28 p. Mar. 1949. 100 M58S

Michigan Institute for Fisheries Research cooperating.

QUARTERLY bulletin 31(3): 263-362. Feb. 1949. 100 M58S

Minnesota Agricultural Experiment Station, University Farm, St. Paul

ALEXANDER, F. D., and NELSON, L. Rural social organization, Goodhue County. Minn. Agr. Expt. Sta. B. 401, 85 p. Feb. 1949. 100 M66

HAYES, H. K., and others. Varietal trials of farm crops. Minn. Agr. Expt. Sta. Misc. Rpt. 6, 19 p. Feb. 1949. 100 M66

E. R. Ausemus, J. O. Culbertson, J. W. Lambert, and R. G. Robinson, joint authors.

DOWELL, A. A., and others. Marketing slaughter cattle by carcass weight and grade. Minn. Agr. Expt. Sta. Tech. B. 181, 64 p. Feb. 1949. 100 M66

G. Engelman, E. F. Ferrin, and P. A. Anderson, joint authors.

MINNESOTA farm and home science 6(2), 16 p. Feb. 1949. 100 M668

Mississippi Agricultural Experiment Station, State College

WELCH, F. J. Fertilizer recommendations for Mississippi, 1949. Miss. Agr. Expt. Sta. C. 145, 12 p. Feb. 1949. 100 M69

LANDRUM, R. T., and CROCKETT, S. P. Sweet Sudan grass increases milk production in north Mississippi. Miss. Agr. Expt. Sta. Inform. Sheet 430, 2 p. Mar. 1949. 100 M69In

MISSISSIPPI. AGRICULTURAL EXPERIMENT STATION. Highlights of the work of the Mississippi Experiment Station; sixty-first annual report, 1947/48. State College? 1948? 59 p. 100 M69

MISSISSIPPI farm research 12(3), 8 p. Mar. 1949. 100 M69Mi

Missouri Agricultural Experiment Station, Columbia

BRODY, S., and others. Growth and development with special reference to domestic animals. LXV. Heat production and cardiorespiratory activities during gestation and lactation in Holstein cattle. Mo. Agr. Expt. Sta. Res. B. 424, 15 p. Sept. 1948. 100 M693

D. M. Worstell, A. C. Ragsdale, and H. H. Kibler, joint author.

Nebraska Agricultural Experiment Station, Lincoln

DOWNS, P. A. The manufacture of export-type Cheddar cheese from pasteurized milk. Nebr. Agr. Expt. Sta. B. 390, 32 p. Ref. Dec. 1948. 100 N27

THORFINNSEN, T. S., and EPP, A. W. Systems of farming for the Tri-County Irrigation area in Nebraska. Nebr. Agr. Expt. Sta. B. 393, 52 p. Jan. 1949. 100 N27

CLAASSEN, C. E. Safflower production in the western part of the Northern Great Plains. Nebr. Agr. Expt. Sta. C. 87, 23 p. Feb. 1949. 100 N27

BARAGAR, A. E., and DOWNS, P. A. Portable electric home milk pasteurizers. Nebr. Agr. Expt. Sta. Res. B. 157, 19 p. Oct. 1948. 100 N27

New Jersey Agricultural Experiment Station, New Brunswick

HANSENS, E. J. Cattle grubs [Hypoderma]. N. J. Agr. Expt. Sta. C. 522, 4 p. Jan. 1949. 100 N46S

WALLER, A. G., and others. If not potatoes—what? N. J. Agr. Expt. Sta. C. 523, 7 p. Feb. 1949. 100 N46S

New York (Cornell) Agricultural Experiment Station, Ithaca

FORBES, W. T. M. Lepidoptera of New York and neighboring States. II. Geometridae, Sphingidae, Notodontidae, Lymantriidae. N. Y. (Cornell) Agr. Expt. Sta. Mem. 274, 263 p. June 1948. 100 N48C

New York (State) Agricultural Experiment Station, Geneva

ROBINSON, W. B., AVENS, A. W., and KERTESZ, Z. I. The chemical composition of ripe Concord-type grapes grown in New York in 1947. N. Y. (State) Agr. Expt. Sta. Tech. B. 285, 16 p. Feb. 1949. 100 N48

Ohio Agricultural Experiment Station, Wooster

FARM and home research 34(256), 30 p. Jan./Feb. 1949. 100 Oh3S

Oklahoma Agricultural Experiment Station, Stillwater

BROOKS, J. S., CHESSMORE, R., and PASS, H. Oklahoma corn performance tests; summary: 1946, 1947 and 1948. Okla. Agr. Expt. Sta. B. B-327, 14 p. Feb. 1949. 100 Ok4

HARPER, H. J., and PLICE, M. J. Suggestions for improving slick-spot soils. Okla. Agr. Expt. Sta. B. B-329, 8 p. Feb. 1949. 100 Ok4

MCMILLAN, R. T. A study of farms in Oklahoma by size and economic class. Okla. Agr. Expt. Sta. B. B-330, 11 p. Feb. 1949. 100 Ok4

AFANASIEV, M. Cedar and pine as farm trees for Oklahoma. Okla. Agr. Expt. Sta. B. B-331, 18 p. Mar. 1949. 100 Ok4

VLITOS, A. J., and PRESTON, D. A. Seed treatment for field legumes. Okla. Agr. Expt. Sta. B. B-332, 11 p. Ref. Mar. 1949. 100 Ok4

BRIGGS, H. M. Sheep management for Oklahoma farms. Okla. Agr. Expt. Sta. C. C-130, 38 p. Mar. 1949. 100 Ok4

AFANASIEV, M. A study of [eastern] red cedar plantations in north central Oklahoma. Okla. Agr. Expt. Sta. Tech. B. T-34, 16 p. Mar. 1949. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

MOTE, D. C., and OWENS, C. E. Insect pests and diseases of currants and gooseberries. Oreg. Agr. Expt. Sta. C. 152, rev., 14 p. Dec. 1948. 100 Or3

MUTH, O. H. Urinary calculi in cattle. Oreg. Agr. Expt. Sta. C. Inform. 451, 4 p. Mar. 1949. 100 Or3C

Rhode Island Agricultural Experiment Station, Kingston

HARRIS, B. K., and ODLAND, T. E. Rhode Island weather. R. I. Agr. Expt. Sta. B. 299, 32 p. Nov. 1948. 100 R34S

South Dakota Agricultural Experiment Station, Brookings

SHANK, D. B. 1948 corn performance tests. S. Dak. Agr. Expt. Sta. C. 76, 18 p. Feb. 1949. 100 So82

WHITEHEAD, E. I., VIETS, F. G., JR., and MOXON, A. L. Nitrogen distribution in the corn plant. S. Dak. Agr. Expt. Sta. Tech. B. 7, 40 p. Ref. June 1948. 100 So82



Texas Agricultural Experiment Station, College Station

WILLEY, N. B., JONES, J. H., and LYERLY, P. J. Fattening steers in the El Paso Valley, 1947-48. Tex. Agr. Expt. Sta. Prog. Rpt. 1151, 3 p. Mar. 3, 1949. 100 T31P

NORRIS, M. J., and DUDLEY, D. I. Denton corn performance tests, 1944-48. Tex. Agr. Expt. Sta. Prog. Rpt. 1152, 2 p. Mar. 7, 1949. 100 T31P

JONES, J. H., GRAY, J. A., and BURKHART, H. R. Sorghum gluten meal and feed in rations for fattening lambs. Tex. Agr. Expt. Sta. Prog. Rpt. 1153, 3 p. Mar. 11, 1949. 100 T31P

WENE, G. P., and BLANCHARD, R. A. Control of the corn earworm [*Heliothis armigera*] on sweet corn in the Lower Rio Grande Valley. Tex. Agr. Expt. Sta. Prog. Rpt. 1154, 4 p. Mar. 22, 1949. 100 T31P

Utah Agricultural Experiment Station, Logan

KNOWLTON, G. F. Insects of Utah; some Western Tabanidae. Utah. Agr. Expt. Sta. Mimeog. Ser. 353, 6 p. Mar. 1949. 100 Ut1Mi

UTAH. AGRICULTURAL EXPERIMENT STATION. List of available publications. Logan, 1948. 12 p. 100 Ut1L

Vermont Agricultural Experiment Station, Burlington

MUSE, M. Saving time and steps in bedmaking. Vt. Agr. Expt. Sta. B. 551, 55 p. Mar. 1949. 100 V59

Virginia Agricultural Experiment Station, Blacksburg

PATTESON, G. W., HARRIS, A. J., and FULTON, Z. M. K., JR. Economic land classification of Richmond County. Va. Agr. Expt. Sta. B. 418, 12 p. Jan. 1949. 100 V81S

HOUGH, W. S. Effect of dormant sprays on apple trees. Va. Agr. Expt. Sta. B. 423, 22 p. Ref. Feb. 1949. 100 V81S

THRELKELD, W. L. The life history and pathogenicity of *Chabertia ovina*. Va. Agr. Expt. Sta. Tech. B. 111, 27 p. Ref. Nov. 1948. 100 V81S

Washington Agricultural Experiment Station, Pullman

SEELY, C. I., KLAGES, K. H., and SCHAFER, E. G. Controlling perennial weeds with sodium chlorate, carbon bisulfide, and borax. Wash. Agr. Expt. Sta. B. 505, 23 p. Nov. 1948. 100 W27E

Wisconsin Agricultural Experiment Station, Madison

ANDRE, F., and BEELER, R., comps. What's new in farm science; annual report Wisconsin Agricultural Experiment Station, 1946/47. II. Wis. Agr. Expt. Sta. B. 480, 86 p. Dec. 1948. 100 W75



# STATE AGRICULTURAL EXTENSION SERVICE PUBLICATIONS

Includes State Agricultural Extension Service publications received in the library during the preceding month.

Publications issued by the State Agricultural Extension Services are not available from the U. S. Department of Agriculture but are often available from the publishing extension service.

Material not available from the various State institutions may be obtained in microfilm or photoprint form from the U. S. Department of Agriculture Library for the cost of reproduction.

## Alabama Polytechnic Institute, Agricultural Extension Service, Auburn

CURTIS, L. Food preservation in Alabama. Ala. Polytech. Inst. Agr. Ext. C. 154, rev., 62 p. Apr. 1948. 275.29 AL1C

## Arizona University, College of Agriculture, Agricultural Extension Service, Tucson

DISHAW, O. W. Rabbits as a 4-H project. Ariz. Agr. Col. Ext. C. 137, 19 p. Mar. 1948. 275.29 Ar42

\*RYAN, G. The finish counts! Ariz. Agr. Col. Ext. C. 149, 16 p. Feb. 1949. 275.29 Ar42

## California University, College of Agriculture, Agricultural Extension Service, Berkeley

MACGILLIVRAY, J. H. Home vegetable gardening. Calif. Agr. Col. Ext. C. 26, rev., 31 p. Nov. 1948. 275.29 C12C

BELTON, H. L., and FAIRBANK, J. P. A septic tank for farm homes. Calif. Agr. Col. Ext. C. 82, rev., 23 p. Jan. 1949. 275.29 C12C

SHULTIS, A., and NEWLON, W. E. The chicken business in California. Calif. Agr. Col. Ext. C. 147, 20 p. Nov. 1948. 275.29 C12C

DOBIE, J. B. Barn mow haydrying in California. Calif. Agr. Col. Ext. C. 149, 16 p. Feb. 1949. 275.29 C12C

## Colorado State College of Agriculture, Extension Service, Fort Collins

CODE, W. E., and HAMMAN, A. J. When to use sprinkler irrigation in Colorado. Colo. Agr. Col. Ext. B. 405-A, 19 p. July 1949, i. e. 1948. 275.29 C71E

COLORADO. STATE AGRICULTURAL PLANNING COMMITTEE. Agricultural policy. Colo. Agr. Col. Ext. C. 161-A, 34 p. Feb. 1949. 275.29 C71Ci

## Georgia University, College of Agriculture, Agricultural Extension Service, Athens

BELL, C. E., JR. The farm pork supply. Ga. Agr. Col. Ext. B. 448, rev., 19 p. Jan. 1948. 275.29 G29B

TREANOR, K., and CLARK, C. E. Georgia's 1948 agricultural outlook. Ga. Agr. Col. Ext. C. 352, 12 p. Jan. 1948. 275.29 G29C

## Hawaii University, Agricultural Extension Service, Honolulu

BICE, C. M. Squab production. Hawaii. U. Agr. Ext. C. 262, 4 p. Feb. 1949. 275.29 H312Ac

## Illinois University, College of Agriculture, Extension Service, Urbana

PENDLETON, J. W., and others. Spring oats—varieties for Illinois. Ill. Agr. Col. Ext. C. 638, 4 p. Mar. 1949. 275.29 IL62C  
G. H. Dungan, O. T. Bonnett, and G. E. McKibben, joint authors.

## Iowa State College of Agriculture, Agricultural Extension Service, Ames

IOWA. STATE COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Catalog of audiovisual aids, 1949-1950. Iowa. State Col. Agr. Ext. B. 47(32), 189 p. Jan. 5, 1949. 275.9 Io93

## Indiana - Purdue University, Agricultural Extension Service, Lafayette

PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Meat for the table. Purdue U. Agr. Ext. B. 286, 16 p. 1948? 275.29 In2E

KARSTENS, G. A., and COLE, R. O. Terracing for erosion control in Indiana. Purdue U. Agr. Ext. B. 288, rev., 15 p. 1948? 275.29 In2E

LEHKER, G. E., SHARVELLE, E. G., and BURKHOLDER, C. L. Spray and dust schedules for commercial fruit planting. Purdue U. Agr. Ext. B. 310, 35 p. 1949. 275.29 In2E

FRASER, R. R., HARDIN, L. S., and NICTER, A. M. Pointers on tomato picking. Purdue U. Agr. Ext. B. 337, 11 p. 1948. 275.29 In2E

STOLL, F., and MARTIN, M. E. Tools for sewing. Purdue U. Agr. Ext. B. 338, 20 p. 1948? 275.29 In2E

WARD, W. B., and ELLIS, N. K. Asparagus production. Purdue U. Agr. Ext. B. 339, 11 p. 1948. 275.29 In2E

MOORE, L. A. The next step with your trees and shrubs. Purdue U. Agr. Ext. B. 340, 10 p. 1948. 275.29 In2E

MONROE, M. M. Selecting and using pressure saucepans. Purdue U. Agr. Ext. B. 341, 19 p. 1948. 275.29 In2E

SCHWAB, J. W. Tenth anniversary of the Ton Litter Hog Shows, Indianapolis stockyards. Purdue U. Agr. Ext. B. 342, 12 p. 1948. 275.29 In2E

SUNDERLIN, G., and HOSTETLER, R. Master Mix. Purdue U. Agr. Ext. B. 344, 12 p. 1948. 275.29 In2E

HULL, R. B. Developing the farmstead. Purdue U. Agr. Ext. B. 345, 44 p. 1948? 275.29 In2E

BURKHOLDER, C. L. Pruning practices for Indiana apple orchards. Purdue U. Agr. Ext. B. 351, 36 p. Oct. 1948. 275.29 In2E

MANHART, V. C. Sediment in milk—let's keep it out. Purdue U. Agr. Ext. Leaflet 280, rev., 7 p.-folder. 1949. 275.29 In2L

OBERHELMAN, L., and RAINIER, A. P. Meals that measure up. Purdue U. Agr. Ext. Leaflet 289, 8 p. 1949? 275.29 In2L

INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Ten pointers on tree windbreaks. Purdue U. Agr. Ext. Leaflet 294, 4 p.-folder. 1949. 275.29 In2L

INDIANA. PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Five pointers on farm woodlands. Purdue U. Agr. Ext. Leaflet 295, 4 p.-folder. 1949. 275.29 In2L

MAYO, H. Suggestions for producing beef calves. Purdue U. Agr. Ext. Leaflet 296, 4 p. 1949. 275.29 In2L

LEE, O. C. Weeding with 2,4-D. Purdue U. Agr. Ext. Leaflet 297, 12 p. 1949. 275.29 In2L

PURDUE UNIVERSITY. AGRICULTURAL EXTENSION SERV. Annual report, 1947; thirty-fifth report of the director, Purdue University, Agricultural Extension Service. Lafayette, 1948? 110 p. 275.29 In2

## Kansas State College of Agriculture and Applied Science, Extension Service, Manhattan

KANSAS STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. The beef cattle outlook, by C. P. Wilson. Manhattan, 1949. 7 p. 275.29 K13Ca



Louisiana State University and Agricultural and Mechanical College, Division of Agricultural Extension, University Station, Baton Rouge

LOUISIANA. STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE. DIV. OF AGRICULTURAL EXTENSION. Progress in Louisiana agriculture, 1946-47; biennial report. Baton Rouge? 1948? 52 p. 275.29 L932A

Maryland University, Colleges of Agriculture and Home Economics, Extension Service, College Park

MARYLAND. UNIVERSITY. COLLEGES OF AGRICULTURE AND HOME ECONOMICS. EXTENSION SERV. Varieties of vegetables recommended for Maryland in 1949, by E. K. Bender. College Park? 1949. 1 p. 275.29 M36V

Massachusetts State College, Extension Service, Amherst

PAGE, E. C. Your first dress. Mass. U. Agr. Ext. Leaflet 222, 20 p. Feb. 1949. 275.29 M381L

Minnesota University, Department of Agriculture, Division of Agricultural Extension, University Farm, St. Paul

SEARLES, H. R. Dairy cow project. Minn. U. Agr. Ext. 4-H B. 10, rev., 4 p. July 1948. 275.29 M662M

MORRIS, W. E. 4-H sheep project. Minn. U. Agr. Ext. 4-H B. 11, rev., 8 p. June 1948. 275.29 M662M

Missouri University, College of Agriculture, Agricultural Extension Service, Columbia

WOOLEY, J. C., and RAGSDALE, A. C. Dairy farm building plans. Mo. Agr. Col. Ext. C. 470, rev., 15 p. July 1948. 275.29 M69C

MCCORMICK, L. E. Planting and care of forest trees. Mo. Agr. Col. Ext. C. 563, 12 p. Aug. 1948. 275.29 M69C

COLEMAN, O. T. Lime your soils for better crops. Mo. Agr. Col. Ext. C. 566, 27 p. Nov. 1948. 275.29 M69C

CARL, F. L., FLORY, J., and BACON, D. Suppers and picnic lunches. Mo. Agr. Col. Ext. 4-H Club C. 90, 30 p. June 1948. 275.29 M69B

Nebraska University, College of Agriculture, Agricultural Extension Service, Lincoln

WOLFE, H. H., and GARDNER, C. O. Crop varieties in Nebraska. Neb. Agr. Col. Ext. C. 100, rev. 59 p. Mar. 1949. 275.29 N272Fx

WOLFE, H. H. Producing high corn yields. Nebr. Agr. Col. Ext. E. C. 114, rev., 30 p. Feb. 1949. 275.29 N272Ex

GROSS, D. L. Alfalfa in Nebraska. Nebr. Agr. Col. Ext. E. C. 183, 14 p. Jan. 1949. 275.29 N272Ex

HIKSON, E., MUMA, M. H., and HILL, R. E. Corn rootworm [*Diabrotica longicornis*] control in Nebraska. Nebr. Agr. Col. Ext. E. C. 1506, 4 p. Feb. 1949. 275.29 N272Ex

NEBRASKA. UNIVERSITY. COLLEGE OF AGRICULTURE. AGRICULTURAL EXTENSION SERV. Recreation for rural youth. Nebr. Agr. Col. Ext. E. C. 2007, 27 p. Mar. 1949. 275.29 N272Ex

New Jersey State College of Agriculture and Mechanical Arts, Extension Service, Rutgers University, New Brunswick

NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1948 spraying recommendations for apples. N. J. Agr. Col. Ext. Spray Calendar 30, 12 p. Jan. 1948. 275.29 N46Sp

CHRIST, E. G., and GILBERT, F. A. Control of insects and diseases on small fruits. N. J. Agr. Col. Ext. Spray Calendar 31, 12 p. Mar. 1948. 275.29 N46Sp

NEW JERSEY. STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS. EXTENSION SERV. 1948 spraying and dusting recommendations for potatoes. N. J. Agr. Col. Ext. Spray Calendar 32, 4 p. Mar. 1948. 275.29 N46Sp

New York State College of Agriculture and Home Economics, Extension Service, Cornell University, Ithaca

HAUCK, H. M. How to control your weight. N. Y. Agr. Col. Ext. Cornell B. Homemakers 329, rev., 16 p. Dec. 1948. 275.29 N48E

PALMER, E. L. Wood. N. Y. Agr. Col. Ext. Cornell Rur. School Leaflet 42(3), 32 p. Winter 1948/49. 275.29 N48R

EDWARDS, C. M. A roadside sign. N. Y. Agr. Col. Ext. Leaflet 14, 4 p. June 1948. 275.29 N48Fom

North Carolina University, State College of Agriculture and Engineering, Extension Service, State College Station, Raleigh

SHOFFNER, R. W., and others. North Carolina farming guide. N. C. Agr. Col. Ext. C. 263, rev., 46 p. Apr. 1948. 275.29 N811

H. B. James, C. B. Ratchford, and M. S. Williams, joint authors.

BENNETT, R. R., HAWKS, S. N., JR., and RITCHIE, R. M., JR. Flue-cured tobacco barn construction. N. C. Agr. Col. Ext. C. 316, rev., 27 p. Jan. 1949. 275.29 N811

ELLIS, D. E., and GARRISS, H. R. Control tomato late blight. N. C. Agr. Col. Ext. C. 331, 8 p. Jan. 1949. 275.29 N811

BENNETT, R. R., and HAWKS, S. N. Curing bright leaf tobacco. N. C. Agr. Col. Ext. C. 332, 11 p. Jan. 1949. 275.29 N811

NISWONGER, H. R. Small fruit culture for home gardeners. N. C. Agr. Col. Ext. C. 333, 8 p. Jan. 1949. 275.29 N811

STEPHEN, W. A. Bee lines. N. C. Agr. Col. Ext. C. 334, 30 p. Mar. 1949. 275.29 N811

NORTH CAROLINA. UNIVERSITY. STATE COLLEGE OF AGRICULTURE AND ENGINEERING. EXTENSION SERV. What makes your yard beautiful? N. C. Agr. Col. Ext. C. 335, 4 p. Jan. 1949. 275.29 N811

Ohio State University, College of Agriculture, Agricultural Extension Service, Columbus

STANSBURY, J. L. Reproduction of dairy cattle. Ohio. Agr. Col. Ext. B. 294, 8 p. Apr. 1948. 275.29 Oh32

Oregon State College, Federal Cooperative Extension Service, Corvallis

GRIEBELER, W. L., and HUBER, M. G. How to build a homemade wood stave silo. Oreg. State Col. Ext. C. 529, 12 p. Mar. 1949. 275.29 Or32C

Puerto Rico University, College of Agriculture, Extension Service, Rio Piedras

JOGLAR RODRIGUEZ, F. La habichuela soya y su cultivo. Puerto Rico. Agr. Col. Ext. C. 4-H 44, 4 p. Aug. 1948. 275.29 P96Cu

OLIVENCIA, P. Clubes 4-H modelo. Puerto Rico. Agr. Col. Ext. C. 4-H 51, 4 p. Aug. 1948. 275.29 P96Cu

OLIVENCIA, P. Selección de delegados a campamentos 4-H. Puerto Rico. Agr. Col. Ext. C. 4-H 58, 2 p. June 1948. 275.29 P96Cu

BUDET DOMINGUEZ, A. Conozca las enfermedades mas comunes en las aves. Puerto Rico. Agr. Col. Ext. C. Inform. 108, 9 p. Mar. 1948. 275.29 P96C

GARCIA, A. L. Algunos problemas de las cooperativas de mercadeo. Puerto Rico. Agr. Col. Ext. Dept. Coop. P. 38, 7 p. Jan. 1949. 275.29 P962

South Carolina, Clemson Agricultural College, Extension Service, Clemson

VAN BLARICOM, L. O., and others. Freezing foods for home use. Clemson Agr. Col. S. C. Ext. B. 110, 28 p. Jan. 1949. 275.29 So8F

J. B. Cooper, R. F. Wheeler, K. F. Warner, and M. Martin, joint authors.



STEWART, G. H. Extension cords, care & repair. Clemson Agr. Col. S. C. Ext. C. 321, 16 p. Jan. 1949. 275.29 So8E

WOODLE, H. A., and others. Cotton production and insect control, South Carolina, 1949. Clemson Agr. Col. S. C. Ext. C. 324, 8 p. Jan. 1949. 275.29 So8E

H. G. Boylston, S. A. Williams, W. C. Nettles, and L. M. Sparks, Jr., joint authors.

BOYLSTON, H. G. The 1948 cotton contest for better quality and higher yields. Clemson Agr. Col. S. C. Ext. C. 325, 34 p. Jan. 1949. 275.29 So8E

NETTLES, W. C., and LEWIS, J. M. New insecticides for insect control on flue-cured tobacco. Clemson Agr. Col. S. C. Ext. C. 328, 8 p.-folder. Feb. 1949. 275.29 So8E

CLEMSON EXTENSION WEED CONTROL COMMITTEE. Weed control with 2,4-D in South Carolina. Clemson Agr. Col. S. C. Ext. C. 330, 8 p.-folder. Feb. 1949. 275.29 So8E

NETTLES, W. C., and SCHILLETTER, A. E. Sweet potato seed treatments. Clemson Agr. Col. S. C. Ext. Inform Card 74, 2 p. Feb. 1949. 275.29 So8I

South Dakota State College of Agriculture, Extension Service, Brookings

NORGAARD, U. J., and others. South Dakota crop varieties, recommendations and descriptions. S. Dak. State Col. Agr. Ext. C. 449, 16 p. Feb. 1949. 275.29 So85

E. E. Sanderson, J. E. Grafius, C. J. Franzke, D. B. Shank, M. W. Adams, V. A. Dirks, J. G. Ross, and W. W. Worzella, joint authors.

Texas Agricultural and Mechanical College, Agricultural Extension Service, College Station

ROSBOROUGH, J. F. Fruit varieties for Texas. Tex. Agr. Col. Ext. C. 150, 5 p. 1949. 275.29 T312C

LANCASTER, R. R. Annual lespedezas. Tex. Agr. Col. Ext. C. 178, 12 p. 1949. 275.29 T312C

TEXAS. AGRICULTURAL AND MECHANICAL COLLEGE. AGRICULTURAL EXTENSION SERV. Guide for controlling cotton insects in Texas, 1949. Tex. Agr. Col. Ext. C. 182, rev., 6 p. 1949. 275.29 T312C

Washington State College, Extension Service, Pullman

WASHINGTON. STATE COLLEGE. POULTRY COUNCIL. Laying house equipment. Wash. State Col. Ext. B. 341, 16 p. Feb. 1949. (Poultry Pointers 23, rev.) 275.29 W27Pou

BRANNON, D. H. Solid comfort for your livestock; more profits come when insects go. Wash. State Col. Ext. B. 384, 8 p. Feb. 1949. 275.29 W27P

VANDECAVEYE, S. C., and others. Fertilizers for eastern Washington. Wash. State Col. Ext. B. 385, 8 p. Feb. 1949. 275.29 W27P

H. E. Dregne, C. L. Vincent, L. R. Bryant, F. L. Overley, N. R. Benson, W. J. Clore, C. O. Stanberry, F. G. Viets, Jr., and W. A. Luce, joint authors.

WICHES, H. E. Choose a farm house to fit your farm. Wash. State Col. Ext. B. 389, 7 p. Mar. 1949. 275.29 W27P

CROWLEY, D. J., and others. Cranberry insect, fungi, and weed control program. Wash. State Col. Ext. C. 73, rev., 4 p. Mar. 1949. 275.29 W27C

N. Servoss, R. L. Webster, M. R. Harris, D. H. Brannon, and H. S. Telford, joint authors.

West Virginia University, College of Agriculture, Agricultural Extension Service, Morgantown

ROEMER, M. I. How the health department serves you. W. Va. Agr. Col. Ext. Good Living Ser. 16, Today's Family Trains Tomorrow's Citizens. Lesson 8, 6 p. 1949? 275.29 W522G







ITEM	ITEM	ITEM	ITEM
ASAKEN O	47421	ALMEIDA J F R D	41887
ASAYE J N H	47681	ALMEIDA J R DE	47731
ASADIE A	46036	ALMUUST J O	44908
ASADIE F	44500	ALP H H	45589
ASABAYES H UES	41864	ALP H H	48157
ASABAYES J UES	46174	ALPAT EV A M	43545
AHE S	43306	ALPAT EV A V	43238
ABEIJON VELOSO J	43237	AL PER V N	41865
ABELE C A	47345	ALSTAND D V	46995
ABRUSSO N G	41759	ALTENRIED K	47366
ABLEITER J K	43647	ALTHAUSEN U	48094
ABREU A	49070	ALTHUISIUS F	48241
ABSOLON H	44984	ALVARADO C A	46306
ACKLEY C W	48950	ALVAREZ C	44075
ACOSTA L	45318	ALVAREZ J C	49197
ACREE F	46395	ALVAREZ ACEVEDO J M	48553
ADAIR W	45809	AMARAL J B DE S	47932
ADAIR W	47930	AMARGOS J L	42400
ADAIR W	48550	AMER A L	42113
ADAM A	49250	AMERICAN ASSOC OF NURSERY	48417
ADAMS C V	46304	MEN 42471	
ADAMS G H	42169	AMERICAN BAKERS ASSOC	
ADAMS H	42637	48285	
ADAMS J B	49061	AMERICAN BANKERS ASSOC	
ADAMS J C	43891	AGR COMM	48418
ADAMS J G	48475	AMERICAN COUNCIL ON EDUC	
ADAMS L E	42535	COM ON SOUTH REG STUDIES	
ADAMS M W	42160	AND EDUC	48554
ADAMS M W	41908	AMERICAN DAIRY ASSOC	
ADAMS R L	47621	RES COM	47367
ADAMS R L	48708	AMERICAN DEITETIC ASSOC	
ADAMS T M	47903	49251	
ADAMS W	47160	AMERICAN INST OF COOP	
ADAM L E	44412	49077	
ADLER S	47813	AMERICAN KENNEL CLUB	
ADRIAN J	46244	45154	
AFANASIEV M	49311	AMERICAN MED ASSOC	
AFANASIEV M	44157	COUNCIL ON FOODS AND	
AFRIDI M K	44158	NUTH 46945	
AGATE J M	46305	AMERICAN MILKING SHORT	
AGENJO R	44691	HORN SOC	44847
AGLIANY J	46396	AMERICAN PHYTOPATH SOC	
AGOR N	42786	FUNGICIDE COM	41760
AGOSTINO L D	42290	AMERICAN QUARTER HORSE	
AGUIKRE AGUDELO R	47931	ASSOC 45279	
AGYEN FREMPONG S	44985	AMERICAN SADDLE HORSE	
AHMA D	42138	BREEDERS ASSOC	45280
AHMA D	41642	AMERICAN SOC OF PLANT	
AHRENS C	45894	PHYSIOL 41473	
AID FOR BRITAIN NATL COUN		AMERICAN SUGAR REFINING	
CIL 44612		CO 48286	
AIKEN G D	46960	AMERICAN TELEPHONE AND	
AIKEN G D	46961	TELEGRAPH CO 46861	
AIKEN G D	49071	AMERICAN WOOL COUNCIL	
AIKEN G D	49072	47489	
AIRON E W	48951	AMERINE M A	47083
AKERBERG E	42170	AMERINE M E	47082
AKERBLOM E	46595	AMERY J W	46119
AKERMAN A	41923	AMIDON G A	42792
AKERMAN A	41924	AMMANN H	46443
AKERMAN A	41925	AMSCHLER J W	44579
AKERMAN A	42171	AMSDEN J	45590
AKERMAN A	42172	AMAGNOSTOPOULOS P T	41966
AKERS A	48952	ANCESCHI	45103
AKERS B H	49074	ANDAL M E	48704
AKESSON N B	46671	ANDAL G	48709
AKESSON N B	46672	ANDERSON A R	41496
ALAMA J V	49075	ANDERSON A W	48940
ALANNO A D	43892	ANDERSON A W	42790
ALARCON MATIENZO H	49076	ANDERSON C F	45451
ALBA C	42345	ANDERSON D	46627
ALBAREDA J M	43567	ANDERSON E D	43390
ALBAUGH R	45102	ANDERSON E D	46673
ALBERDI J B	46534	ANDERSON E D	46674
ALBERA A E	48787	ANDERSON E D	45517
ALBERIZZI U E	48552	ANDERSON E D	44504
ALBERTA AGR EXT SERV		ANDERSON I V	44505
47040		ANDERSON J M	46177
ALBERTA WHEAT POOL	47814	ANDERSON K H	42791
ALBERTELLI L F	45401	ANDERSON M A	43648
ALBERTS J O	44986	ANDERSON M A	47490
ALBERTSMA M A	48063	ANDERSON P A	47998
ALBRECHT W A	46330	ANDERSON P A	48014
ALCALA	48072	ANDERSON R W	45458
ALDERKS O H	48064	ANDERSON W R	45567
ALDERMAN W H	42470	ANDERSON W R	48783
ALDERMAN W H	42564	ANDERSSON G	42401
ALDRICH R E	43711	ANDERSSON I K	47921
ALEEV N P	41926	ANDERSSON P	43537
ALEGREN A	44692	ANDERSSON P	49198
ALEMANNI N M	48817	ANDERSSON T	46685
ALESSANDRELLO S	45717	ANDRADE A C DE	49509
ALEXANDER A K S	45402	ANDRE F	49450
ALEXANDER A K S	45588	ANDREWES N P	44329
ALEXANDER E J	42788	ANDREWES N P	46452
ALEXANDER F	47769	ANDRIBET P P	41672
ALEXANDER F D	48925	ANDRIBET P P	42291
ALEXANDER H G T	47275	ANDRIBET P P	43239
ALEXANDER L T	43669	ANDRIST H K	43240
ALEXANDER M H	48338	ANDROSS M	49252
ALEXANDER P	47488	ANGELL H W	45406
ALFARO A	46175	ANGELUCCI N	44697
ALFARO A	46176	ANGELY J	41474
ALFONSUS A	47276	ANGELY J	41475
ALGERIA DIR DE L AGR		ANGERS ECOLE SUPER D	
47041		ET DE VITIC 48953	
ALGERINO A	48065	ANGEVINE N C	47368
ALIKAEV V A	44693	ANGLAUDETTE A	42266
ALLAM F W	48832	ANIANSSON G	46685
ALLAN P F	46042	ANIMAL DIS RES ASSOC	
ALLARD L	42789	44696	
ALLEGRIANI R	48372	ANISIMOV N A	49336
ALLFN A L S	46043	ANLIKER J	45847
ALLEN D L	49335	ANNAND P M G	45910
ALLEN F W	42638	ANNENKOV	46897
ALLEN F W	42639	ANQUEZ P	47682
ALLEN L A	48283	ANSCHUTZ E	48158
ALLEN P R	44694	ANSHEN M	49359
ALLEN W S	46872	ANTES A	45679
ALLERTON F W	44074	ANTOINE S	44426
ALLEWELT W F	47708	ANTONIUS P C A	47492
ALLIED COMM FOR AUSTRIA		APARISI MOCHOLI A	48954
U S ELEMENT	47042	APLIN R D	48926
ALLIOTT H	44375	APLIN R D	47161
ALLISON F E	43568	APLIN R D	47356
ALLISON K W	41631	APOLD L J	47806
ALLQUARD P	44295	APPELMANS F	43649
ALLQUARD P	44376	ARAGON MONTEJO J	48555
ALLRED B W	43631	ARAMBURU H G	45396
ALM			47933



ITEM	ITEM	ITEM	ITEM
BAMTH A	45502 BENDER E K	43323 BISHOPP F C	45915 BOMPARD A
BAMTH J	44330 BENDER W A	47710 BISHOPP F C C	46030 BOMPARD L
BAMTLETT K A	49453 BENEDETTI U DE	49079 BISHOPP F C C	46246 BOMPARD L
BAMTLETT S V	44851 BENESHELLO J G	46998 BISHOPP F C	46684 BONAUNNA T
BARTON E	47317 BENEFY P A	48561 BISIO A	44703 BONAUNNA T
BARTON G	42801 BENEFY P A	45506 BISIO A	44704 BONAUNNA T
BARTON G	43802 BENEFY P A	45594 BISWAS J N K E	47278 BOMASERA F
BARTON M S G W	43244 BENEFY P A	45895 BITTERLICH E E	44533 BONU M C
BARTON M S G W	42803 BENEFY P A	46160 BITTERLICH E E	44571 BONU M M
BARTON M S G W	42804 BENEFY P A	43652 BITTERLICH E E	44217 BONU M R
BARTON M S G W	42804 BENEFY P A	48960 BIVINS J A	45508 BONDARENKO G
BARTON M S G W	44532 BENNETT C H	43965 BJORKHEM K E	44251 BONDARTSEV A S
BARTON M S G W	45155 BENNETT C H	45507 BJORKMAN E	44377 BONDE R
BARTON M S G W	44616 BENNETT C H	46801 BJORNSTAD A	41679 BONDEN K
BARTON M S G W	44699 BENNETT C H	48340 BLACK A	49327 BONF H
BARTON M S G W	45275 BENNETT C H	45912 BLACK J D	48565 BONI A
BARTON M S G W	45104 BENNETT C H	43244 BLACK J J	46739 BONI A
BARTON M S G W	46962 BENNETT C H	48162 BLACK L A	47246 BONI A
BARTON M S G W	47676 BENNETT C H	41971 BLACK R H	44321 BONHAM CARTER V
BARTON M S G W	42642 BENNETT C H	47684 BLACK R H	47820 BONJEA M A
BARTON M S G W	49383 BENNETT C H	43855 BLACK W J F	41680 BONNEWAISOM L
BARTON M S G W	42779 BENNETT C H	43245 BLACK W J F	42814 BONNER C E B
BARTON M S G W	43473 BENNETT C H	49080 BLACKBURN B	42815 BONNER C E B
BARTON M S G W	48160 BENNETT C H	41840 BLACKMORE R C L L	45785 BONNER M
BARTON M S G W	46398 BENNETT C H	44248 BLACKWELL H L P	45504 BONNER M
BARTON M S G W	48958 BENNETT C H	44249 BLACKWELL H L P	45509 BONNER J
BARTON M S G W	42805 BENNETT C H	44852 BLAGONRAVOV P P	42701 BONNET J A
BARTON M S G W	46925 BENNETT C H	41762 BLAIN J	47373 BONNETT O T
BARTON M S G W	43243 BENNETT C H	47102 BLAIN M	45707 BONNETT O T
BARTON M S G W	47255 BENNETT C H	44618 BLAIN M	47821 BONNICEL R
BARTON M S G W	47087 BENNETT C H	48835 BLAIR D S	42570 BONNICEL R
BARTON M S G W	48711 BENNETT C H	44619 BLAIR D S	47939 BONNICEL R
BARTON M S G W	45846 BENNETT C H	45457 BLAKE H W	47738 BONNI P
BARTON M S G W	45751 BENNETT C H	43722 BLAKE J C	45458 BONSMAN J C B
BARTON M S G W	41970 BENNETT C H	43894 BLAKELY K M	45596 BOOKHOUT B R
BARTON M S G W	44993 BENNETT C H	42175 BLAKELY K M	49082 BOOTH F L
BARTON M S G W	48911 BENNETT C H	46077 BLANCHARD R A	46449 BOOTH R G
BARTON M S G W	43718 BENNETT C H	46399 BLANCHARD R A	46821 BOOTH V H
BARTON M S G W	46653 BENNETT C H	43723 BLANCHET J	44252 BOOY A
BARTON M S G W	45281 BENNETT C H	45105 BLANCHMEISTER H	41681 BORBOLIA J M R DE LA
BARTON M S G W	45752 BENNETT C H	49433 BLANCO GONZALEZ T	48072 BORBOLIA J M R
BARTON M S G W	41827 BENNETT C H	44250 BLANCO GONZALEZ T	45916 BORBOLIA J M R
BARTON M S G W	41543 BENNETT C H	43724 BLANES F	45786 BORDE A D
BARTON M S G W	45455 BENNETT C H	47470 BLANK G	47902 BORDING K
BARTON M S G W	44995 BENNETT C H	48261 BLANKMEYER H C	42477 BORGES P
BARTON M S G W	45501 BENNETT C H	42699 BLARINGHEM L	46539 BORNHOLM LANDOKONOMISKE
BARTON M S G W	45503 BENNETT C H	47448 BLASCH J	48819 FOR 49084
BARTON M S G W	49339 BENNETT C H	47421 BLASCH J	42297 BORRELL S
BARTON M S G W	42806 BERLAND L	46145 BLASCHKE O	43632 BORRELLI C
BARTON M S G W	45282 BERLIN BIOL ZENTRALANST	44995 BLASER R E	45554 BORSET O
BARTON M S G W	43963 BERLIN BIOL ZENTRALANST	44995 BLAU L W	44253 BORUFF C S
BARTON M S G W	45847 BERLIN BIOL ZENTRALANST	44995 BLAXLAND J D	42085 BOSLEY D R
BARTON M S G W	44700 BERMAN D T	48836 BLECHSCHMIDT M	41973 BOSLEY P R
BARTON M S G W	46963 BERMEJO F	48163 BLEDSOE R P	46403 BOSMAN S
BARTON M S G W	42565 BERMEYER H W	42295 BLEDSOE R P	42571 BOSSARD R
BARTON M S G W	43719 BERNARD P	46688 BLESZYNSKI S	41974 BOSWELL A B
BARTON M S G W	44033 BERNARD P	46689 BLIN H	43246 BOSWORTH H M
BARTON M S G W	44274 BERNARD P	48837 BLIN H	43247 BOTMAN J
BARTON M S G W	42174 BERNARD P	46400 BLIN H	44035 BOTTCHE F K
BARTON M S G W	46867 BERNARDI G	46044 BLIN H	45787 BOTTCHE G T
BARTON M S G W	49385 BERNETT A W	46915 BLIN H	47739 BOTTCHE G T
BARTON M S G W	47219 BERNFELD P	46999 BLIN H	45847 BOTTOM H J
BARTON M S G W	45156 BERNFUS E	48287 BLOCH E H	46516 BOTTOMUM J C
BARTON M S G W	48069 BERNHARD J	42700 BLOCK A D	46516 BOUCHARD
BARTON M S G W	49200 BERNON G	45454 BLOCC VAN KUFFELER V J P	41861 BOUCKAERT J H
BARTON M S G W	49215 BERKIDGE A C F	42810 DE 43895	44853 BOUCLIER MAURIN H
BARTON M S G W	45753 BERRY MRS C F	41972 BLOUETT F M	42478 BOUDKUM L
BARTON M S G W	43696 BERRY L J	48838 BLOW E	48479 BOUGLEUX L
BARTON M S G W	47553 BERRY R L	47000 BLOW G	46964 BOUILLENNE R
BARTON M S G W	45504 BERTARELLI E	41678 BLOW H	42622 BOUILLENNE R
BARTON M S G W	41479 BERTARELLI J C	42623 BLOW H	42177 BOUILLENNE WALRAND M
BARTON M S G W	45456 BERTHAULT P	46538 BLOW H	45597 BOUMA G J A
BARTON M S G W	44617 BERTHAULT P	47627 BLOW H	45810 BOUDQUET F A
BARTON M S G W	48478 BERTHAULT P	48562 BLOW H	42822 BOUREAU H E
BARTON M S G W	47318 BERTHAULT P	48563 BLOW H	41765 BOURC C J
BARTON M S G W	45848 BERTHAULT P	47724 BLOW H	47940 BOURGET F
BARTON M S G W	47626 BERTHAULT P	48818 BLOW H	42702 BOURSIN C
BARTON M S G W	47709 BERTHAULT P	49081 BLUMER S	49386 BOUSSIER R
BARTON M S G W	45505 BERTHAULT P	44454 BLUMER S	42437 BOUVIER G
BARTON M S G W	48070 BERTHAUME M	46401 BLYTH J	44691 BOWEN C
BARTON M S G W	42807 BERTHET H	47090 BOBADILLA G F DE	42479 BOWEN C
BARTON M S G W	49450 BERTNER P	46484 BOBKOE V	42816 BOWEN R
BARTON M S G W	47498 BERTNER P	45188 BOCCIA R	42480 BOWERS C G
BARTON M S G W	49425 BERTNER P	48839 BOCHER T W	43966 BOWERS R D
BARTON M S G W	49380 BERTNER P	46654 BODDY F A	45186 BOWLER R G
BARTON M S G W	48161 BERTSCH M	48288 BODDY F A	45319 BOWMAN A E
BARTON M S G W	42386 BERTUZZI A	48712 BODDY F A	45849 BOWMAN F T
BARTON M S G W	46862 BERTUZZI A	47736 BODE L	48963 BOWSER W E
BARTON M S G W	43382 BERTUZZI A	47737 BODE L	49454 BOYCE R D
BARTON M S G W	41676 BERTUZZI A	42811 BODINGBAUER J	47499 BOYD F A JR
BARTON M S G W	41804 BERTUZZI A	41889 BODINGBAUER J	41975 BOYD H B
BARTON M S G W	41677 BERTUZZI A	44565 BODINGBAUER J	46485 BOYD J M
BARTON M S G W	44994 BERTUZZI A	48106 BOERGER A	42481 BRAAK H H
BARTON M S G W	48051 BERTUZZI A	45578 BOEUF F	42483 BRADELY H H
BARTON M S G W	43964 BEICHLER W K	45632 BOGOTA INST MAC DE ABASTE	42483 BRADFIELD A
BARTON M S G W	47989 BEILMANN A P	45268 CIMENTOS	42817 BRADFIELD A
BARTON M S G W	43697 BEKKER H T VAN G	45914 DEPT DE ESTUD ECON Y	42818 BRADFIELD G H
BARTON M S G W	45724 BELENGER E	45266 COORDINACION 46880	42819 BRADLEY W L
BARTON M S G W	42808 BELGIUM MIN DES COLON	42567 BOGATY H	43248 BRAINARD S A
BARTON M S G W	42808 BELGIUM MIN DES COLON	42568 BOGEN H J	43249 BRANDAO FILMO J S
BARTON M S G W	42808 BELGIUM MIN DES COLON	48451 BOGER L C	48373 BRANDE F VAN DEN
BARTON M S G W	42808 BELGIUM MIN DES COLON	48103 BOHM F J	45917 BRANDY C A
BARTON M S G W	42808 BELGIUM MIN DES COLON	45754 BOHM F J	41976 BRANDON D
BARTON M S G W	42808 BELGIUM MIN DES COLON	44702 BOHM F J	47500 BRANDONISIO V
BARTON M S G W	42808 BELGIUM MIN DES COLON	43606 BOHM F J	45823 BRANDT H
BARTON M S G W	42808 BELGIUM MIN DES COLON	41928 BOHM F J	44048 BRANDY VINE VALLEY A880C
BARTON M S G W	42808 BELGIUM MIN DES COLON	43569 BOHM F J	43250 BRANICAN V
BARTON M S G W	42808 BELGIUM MIN DES COLON	43384 BOHM F J	46915 BRANNAN C F
BARTON M S G W	42808 BELGIUM MIN DES COLON	45595 BOHM F J	45170 BRANNAN C F
BARTON M S G W	42808 BELGIUM MIN DES COLON	44481 BOHM F J	41571 BRANNAN C F
BARTON M S G W	42808 BELGIUM MIN DES COLON	48962 BOHM F J	43896 BRANNAN D M
BARTON M S G W	42808 BELGIUM MIN DES COLON	47819 BOHM F J	44427 BRANNAN D M
BARTON M S G W	42808 BELGIUM MIN DES COLON	42569 BOHM F J	41950 BRANZANTI E C
BARTON M S G W	42808 BELGIUM MIN DES COLON	47091 BOHM F J	47319 BRASH A G
BARTON M S G W	42808 BELGIUM MIN DES COLON	47092 BOHM F J	48840 BRASMER T H
BARTON M S G W	42808 BELGIUM MIN DES COLON	45472 BOISJAN J	48566 BRATTON C A
BARTON M S G W	42808 BELGIUM MIN DES COLON	46515 BOISSONNAS R A	49996 BRATTON R W
BARTON M S G W	42808 BELGIUM MIN DES COLON	41765 BOITEAU P	46906 BRAUCKHOFF H
BARTON M S G W	42808 BELGIUM MIN DES COLON	44201 BOIVIN B	46146 BRAUN O
BARTON M S G W	42808 BELGIUM MIN DES COLON	43725 BOKE R L	41892 BRAUNGART D C
BARTON M S G W	42808 BELGIUM MIN DES COLON	48447 BOKIL O B	46540 BRAUNGART D C
BARTON M S G W	42808 BELGIUM MIN DES COLON	42812 BOKIL S D	
BARTON M S G W	42808 BELGIUM MIN DES COLON	42475 BOLAND H A	
BARTON M S G W	42808 BELGIUM MIN DES COLON	41763 BOLDINI C	
BARTON M S G W	42808 BELGIUM MIN DES COLON	42129 BOLDINI C	
BARTON M S G W	42808 BELGIUM MIN DES COLON	43385 BOLEY L E	
BARTON M S G W	42808 BELGIUM MIN DES COLON	45106 BOLLES B	
BARTON M S G W	42808 BELGIUM MIN DES COLON	42476 BOLLOW H	
BARTON M S G W	42808 BELGIUM MIN DES COLON	42813 BOLLOW H	
BARTON M S G W	42808 BELGIUM MIN DES COLON	46402 BOLLOW H	



ITEM		ITEM		ITEM		ITEM	
44622	BRYANT J	45718	CALVIN M	41971	CASTELLI T	43607	
47045	BRYANT L R	45855	CALVO C	45726	CASTELLINI A	42709	
47045	BRYDTON P H	42834	CALZECCHI ONESTI A	48503	CATTLE M E	47323	
47046	BRYNER	41685	CAMACHO ARINO L	45321	CATTLE M E	47380	
49203	BRYSON H C	47942	CAMARGO R DE	43476	CABTORIMA S	48074	
49203	BUCHANAN M A	44497	CAMERON A E	46335	CASTRO J DE	43478	
49204	BUCHANAN T S	41766	CAMERON G R	44359	CASTRO J DE	47003	
49204	BUCHANAN ALLEN R	48572	CAMICI L	41770	CASTRO J DE	49257	
49205	BUCHHOLTZ K P	43388	CAMAYAN DE R DE LA B	40800	CASTRO J DE	49303	
49205	BUCHINGER A W	43253	CAMAYAN DE R DE LA B	41980	CASTRO J DE	49308	
49206	BUCHINGER W G	47742	CAMPAGNA E	43390	CATALINA L	41984	
49206	BUCHLMANN E	45320	CAMPBELL C C	41983	CATCHPOLE N	42850	
47357	BUCHWALD N F	47711	CAMPBELL M E	46822	CATHLEINEAU P	45002	
42828	BUCHY A	44651	CAMPBELL J A	46047	CATHLEINEAU P	45002	
48965	BUCKLEY M R	44691	CAMPBELL J A	43256	CATHLEINEAU P	45002	
41544	BUCKLEY M R	42835	CAMPBELL J A	43901	CATHLEINEAU P	45002	
44331	BUCKLEY M R	47824	CAMPBELL J B	43406	CATTORINI P E	43479	
	BUDAGOVSKII V I	45512	CAMPBELL J C	48906	CAVALLINI G	48343	
	BUEDE A	48444	CAMPOS ONETTI R	45852	CAVE F C	48374	
41645	BUEDE DOMINGUEZ A	45513	CAMPREDON J	44370	CAWSTON B L	45604	
47320	BUECHNER E R	43899	CAMPREDON J P	44371	CAZAS A	44070	
48569	BUENO P	45851	CANADA R W	47943	CECCARANI L	48842	
48570	BUGNON F	41893	CANADA SUR OF STATIS	48575	CECCARANI L	48843	
48725	BUGNON F	41894	AGR DIV		CECCARANI L	48844	
42179	BUIE T S	43727	AGR DIV	47002	CECCUCCI A	46609	
46333	BUIE T S	43968	AGR DIV	47472	CEDERHOLM Y	46048	
42298	BUIS R	45708	INDUS AND MERCHANDISING	48291	CEITHAM L J	42110	
42299	BULGARIA MIN OF AGR AND				CELESTRE M R	42710	
47358	FORESTRY	48715	CANADA DEPT OF AGR		CENTRE D ETUDES AGR PAR		
42260	BULGARIA MIN OF FOREIGN	42836	CANADA DEPT OF AGR	42706	CORRESP DU PLATEAU CENT		
45761	AFFAIRS		CANADA DEPT OF AGR	43391			
45850	BULL N G	44510	DIV OF ENT		CERCELET M	47093	
42144	BULLIS H A	48573	BIOL CONTROL INVEST		CERCLER H	46969	
44817	BULLOCK J F	43728	UNIT 45923		CERRILLO Y GUILER F	48845	
43898	BUNGARTZ M A H	45406	CANADA STATIS	47048	CERTAIN P	46276	
42704	BUNGER M	44944	CANADIAN FED OF AGR	46967	CERVA A	48167	
42454	BURCHARD K	46608	CANADIAN FED OF AGR	46968	CERVI B	42576	
42829	BURGER D	44109	CANADIAN FED OF AGR	48576	CERVI B	43480	
49306	BURGESS D	44999	CANADIAN GLAD SOC	42842	CERVI B	43731	
48290	BURGESSER F W	42484	CANADIAN JERSEY CATTLE		CERVINKA M	44946	
41481	BURGOS J C	41866	CLUB 44858		CEJON G	48821	
41841	BURGOS J J	49434	CANADIAN SEED GROWERS AS	48578	CEYLON DEPT OF STATIS		
42564	BURGOS BOEZO L	48455	SOC 48262		CHACKO V I	48505	
47168	BURKINGH P	43655	CANADIAN SEED GROWERS AS		CHACKO V I	48717	
45488	BURKINGH P	43656	SOC 48263		CHADWICK L E	46256	
45788	BURKANT E	44099	CANADIAN WHEAT BD	47826	CHAFFEE C W	47222	
46596	BURKE A D	47375	CANAVESE A J	45000	CHAKRABORTY K M	47831	
44138	BURKE J D	44945	CANAVESE A J	44859	CHALMERS C H	47223	
44708	BURKE J D	45747	CANDURA G	42574	CHAMBARO P	44500	
44709	BURKHART M R	45747	CANDURA G	46336	CHAMBARO P	48039	
45188	BURKHOLDER C C	41686	CANELA C	47827	CHAMBERLAIN D F	48145	
45364	BURKHOLDER C C	41739	CANESTRARI R	45852	CHAMBERLAIN V D	46147	
	BURKHOLDER C C	42645	CANESTRARI R	45852	CHAMBERS H	45632	
	BURKHOLDER C C	45984	CANESTRARI R	45603	CHAMBERS Y	45518	
	BURMA FOREST DEPT	44177	CANESTRARI R	48164	CHAMBERN Y	45519	
	BURNE W R	42485	CANESTRARI R	48165	CHAMPEVAL	47945	
	BURNETT C	46741	CANESTRARI R	49340	CHANCOCNE M	46405	
	BURNETT L C	42181	CANNIZO J DEL	49388	CHAND M	47279	
	BURNEY M W	44478	CANNON G A	42403	CHANDLER R F JR	43669	
	BURNS K F	44711	CANNON G	48841	CHANDRAN K R	41514	
	BURNS N	49209	CANO E A	49087	CHANDRANATNA M F	43481	
	BURR H R	46634	CANONGE H	44580	CHANEY C M	47685	
	BURRELL A B	41767	CANTARELLI M	47725	CHANEY R W	41484	
	BURRIEL F	43567	CAPEL W C	43577	CHANG S M	46183	
	BURRIEL F	43570	CAPON E N	42707	CHANSLER W S	42851	
	BURROUGHS K D	43254	CAPUCCI C	42708	CHAPIN G	49088	
	BURSTON J	48837	CAPUCCI C	45755	CHAPMAN A B	44929	
	BURTON D	48035	CAPUCCINO M	44820	CHAPMAN C J	43732	
	BURTON G W	42838	CARBONERO D	45454	CHAPMAN E H	45408	
	BURTON H	47376	CARD C G	43477	CHAPMAN H H	44255	
	BUSCH E A	45690	CARDON P V	48015	CHAPMAN P W	47686	
	BUSH D	48939	CARDON L	46693	CHARBON C	48579	
	BUSH F A	42646	CARDONNE P	44623	CHARBONNEAU A	49089	
	BUSH R	47630	CARDOSO P O	44624	CHARCONNET HARDING F		
	BUSHINSKII V	43539	CAHEY V	49256			
	BUSHLAND R C	46488	CARL F L	43257			
	BUSHNELL R H	46803	CARLETON R M	45834	CHARI S T	44626	
	BUSHNELL J	41983	CARLI B	45756	CHARITAT P	45323	
	BUSTAMANTE M E	42182	CARLSON C E	39345	CHARON	42952	
	BUSTINZA J M DE	46692	CARNES M K	47944	CHARON A J	45742	
	BUSVINE J R	46252	CARNES W	42486	CHARON A J	47381	
	BUTLER C G	43389	CARNINE A A	42843	CHASE H B	42078	
	BUTLER C G	46046	CARO L DE	49307	CHATEFIELD H W	48075	
	BUTLER J	46882	CAROLUS R L	43942	CHATTERJEE R	45924	
	BUTLER K D	49086	CARPENTER C D	48166	CHAVAN V M	41928	
	BUTOVSKY B	47047	CARPENTER J A	45517	CHAVARRIA FLORES R A		
	BUTT L E	48574	CARPIO F	45757			
	BUTT L W	42340	CARR A K	45001	CHAVCHANIDZE V	45409	
	BUTTERFIELD J	48908	CARR E K	46160	CHAVERRI R G	43571	
	BUTTNER E E	45514	CARR R B	42414	CHAVES H	44075	
	BUTTNER E E	45515	CARRA	42183	CHAVES J M	43478	
	BUTTON D	44819	CARRANTE A	48504	CHAVES J M	44428	
	BUTTS H A	48174	CARRASCO A O	49389	CHAVES J M	46909	
	BUTY	47825	CARRASCO J R	47712	CHAVES J M	46916	
	BUTZ D	45108	CARRERAS PALET J	43969	CHAVES J M	47666	
	BUTZ D	47378	CARRERAS	47507	CHAVES J M	47743	
	BUTZ E L	46965	CARRICK C W	44625	CHAVES J M	48076	
	BUXTON B M	42841	CARRICK C W	45459	CHAVES J M	48128	
	BUXTON P A	46253	CARRICK C W	45460	CHAVES J M	48315	
	BUXTON P A	46254	CARRE G M	46759	CHAVES J M	49309	
	BUZI C C	46255	CARSON C M	42844	CHAVEZ VIAUD A	42184	
	BYERLY T C	45407	CARTER C L	48073	CHAWLA L K	45032	
	BYRNES F C	48967	CARTER D	42575	CHEESEMAN E A	44691	
	BYWATERS J H	45580	CARTER D G	47488	CHEKULAEVA L	47224	
			CARTER G H	46796	CHEN C S	48891	
	CADILLAT R M	47631	CARTER R H	47785	CHEN H S	45925	
	CAHILL J C	48716	CARTER R M	45993	CHEN K C	42039	
	CAHOON H H	45158	CARTER S	44372	CHEN T C	46970	
	CAIN J	47170	CARTER S	47508	CHENG F W	48077	
	CALAM C T	41483	CARTER MRS S T JR	48016	CHENG K C	41921	
	CALDWELL A C	43729	CARTER W L	42845	CHENG K S	42870	
	CALDWELL A C	43730	CARTIER R D	42846	CHENG S C	45039	
	CALDWELL R M	41768	CARVALHO D DE	43392	CHENOKOV N S	41771	
	CALDWELL S A G	47505	CARVALHO E L DE	47828	CHEPIL W S	43970	
	CALE E G	46926	CARVALHO H F DE	46182	CHEKASOV N G	48375	
	CALHOUN C E	45159	CARVALHO T	48820	CHEKRIAK V Z	45324	
	CALIF DEPT OF PUB WORKS		CARVEL T	47379	CHEKRIKOVA T N	43577	
	CALIF FED STATE MKT NEWS		CASA PACHECO MARQUES DE		CHEKRIKOVA T N	42185	
	CALIF SERV 46966		CASA PACHECO MARQUES DE		CHEKRIKOVA T N	43259	
	CALIF U DIV OF POULTRY	45599	CASALGATE E M DI	48701	CHEKRIKOVA T N	43608	
	CALLAHAN J D	44296	CASANOVA J M	49210	CHEKRIKOVA T N	47382	
	CALLANDOR W F	47989	CASATI A	47829	CHEKRIKOVA T N	41687	
	CALLBECK L C	41769	CASE J F	43258	CHEKRIKOVA T N	41745	
	CALLBECK L C	43255	CASEY J	42847	CHEKRIKOVA T N	41842	
	CALLENBACH E W	45570	CASIDA J F	42847	CHEKRIKOVA T N	48168	
	CALLOT J	46308	CASON J L E	44923	CHEKRIKOVA T N	42180	
	CALLOW E H	48038	CASPERBERG K S	42848	CHEKRIKOVA T N	45109	
	CALVERT P P	46489	CASIEJON M G DE	46337	CHEKRIKOVA T N	41545	



ITEM	ITEM	ITEM	ITEM	ITEM
42855 COLLISSON C F	47359	COX A E	42866	DAVID D K
42856 COLLIVER J P	47723	COX A E	42867	DAVID R
42857 COLUMBIA U NAC BOGOTA		COX A E	42868	DAVIDOVICH N I
42858 48970		CHAFTS A S	42869	DAVIDSON E J
42859 COLON LA JR	48295	CHAIG H A	42870	DAVIDSON J H
42860 COLON FONTIS B	48295	CHAM B	42871	DAVIDSON M
42861 COLO DEPT OF AGR	49343	CHAM B	42872	DAVIDSON M
42862 COLO STATE AGR PLANNING		CHAM B	42873	DAVIES D M
42863 COM 48580		CHAM B	42874	DAVIES J
42864 COLT S	48506	CHAM J S	42875	DAVIES J M
42865 COLVARD C D	47385	CHAM J S	42876	DAVIES W H
42866 COMAR C L	41973	CHAMER M	42877	DAVIS B F
42867 COMBAL H	46696	CHANDALL W T	42878	DAVIS D E
42868 COMBS G F	45463	CHANDALL H A	42879	DAVIS D B
42869 COMBS W B	47836	CRANE J C	42880	DAVIS J F
42870 CONCANNON J J	48169	CRANE M B	42881	DAVIS J G
42871 CONCHA ACUNA A	47473	CRANMER B	42882	DAVIS L G
42872 CONCINNE E J	46411	CRAVENS M E	42883	DAVIS M R
42873 CONCORDET M	46049	CRAVENS W W	42884	DAVIS P H
42874 CONDELLI F	43263	CRAVENS W W	42885	DAVIS R E
42875 CONDON R W	41867	CRAYFORD W G	42886	DAVIS W A
42876 CONFERENCE OF FARMERS	48456	CREIGHTON G W	42887	DAVISON C R
42877 TUAL FIRE INS CO	48456	CREIGHTON J T	42888	DAVISON I M
42878 CONFERENCE OF FARMERS	48457	CRETE P	42889	DAY E B
42879 TUAL HAIL INS CO	48457	CRILE L	42890	DAY W C
42880 CONFERENCE OF FARMERS	48457	CRITCHFIELD H J	42891	DEAN C O
42881 TUAL WINDSTORM INS CO		CROCE F M	42892	DEAN G W
42882 48458		CROCI L	42893	DEAN L A
42883 CONFERENCE ON HOME FOOD		CROCKETT R S	42894	DEAN L L
42884 FREEZING 47744		CROCKETT S P	42895	DEARSTYNE R S
42885 CONGDON J	46697	CROKITE E P	42896	DEBASTY O
42886 CONGRESS OF INDUS ORGAN		CRONSHEY R H	42897	DE BECZE G I
42887 48392		CHOOK S H	42898	DEBLER E B
42888 CONGRESSO INTERNATL DI		CHOOKES M W	42899	DEDE L
42889 FISIOPATH DELLA RIPRODU		CHOPSEY M G	42900	DEEUNDER H
42890 ZIONE ANIMALE E DI		CHOSBY J	42901	DEGEN
42891 FECONDAZIONE ARTIFICIALE		CHOSBY J	42902	DE GUERIN B C
42892 44581		CHOSBY J	42903	DEHART P H
42893 CONKLIN H E	48719	CHOSBY J	42904	DEHART P H
42894 CONLEE C R	42489	CROSS C E	42905	DEICHMANN E M
42895 CONLEY B E	45930	CROSS F	42906	DEIGHTON F C
42896 CONNELL C B B	48293	CROSSLEY T L	42907	DEITEMEYER C
42897 CONNER J T	45931	CROW G B	42908	DEJANA A
42898 CONRAD	43701	CROWLEY D J	42909	DE JONG A W K
42899 CONSERVATIVE AND UNI		CROWTHER D S	42910	DELABY R
42900 PARTY ORGAN 48582		CROWTHER D S	42911	DELAFORE O
42901 CONSOLINI A	44861	CRUESS W V	42912	DELAFORE O
42902 CONTESSA J M	41689	CRUESS W V	42913	DELAFORE O
42903 CONWAY H M	48031	CRUESS W V	42914	DELAFORE O
42904 COOK D B	44160	CRUESS W V	42915	DELAFORE O
42905 COOK E F	46257	CRUESS W V	42916	DELAFORE O
42906 COOK F T	48343	CRUMB D	42917	DELAFORE O
42907 COOK H L	43737	CUENOT S E	42918	DELAFORE O
42908 COOK H L	47271	CUEVAS GARCIA E	42919	DELAFORE O
42909 COOK L J	42271	CULBERTSON J O	42920	DELAFORE O
42910 COOK L J	42300	CULLISON A E	42921	DELAFORE O
42911 COOK L J	42301	CULLISON A E	42922	DELAFORE O
42912 COOK L J	42625	CULLO W F	42923	DELAFORE O
42913 COOK L J	42863	CULLEPPER D	42924	DELAFORE O
42914 COOK L J	43807	CULPIN C	42925	DELAFORE O
42915 COOK L J	41546	CULVER E T	42926	DELAFORE O
42916 COOLEY J B	47777	CUMMINGS G A	42927	DELAFORE O
42917 COOLHAAS C	41487	CUMMINGS M B	42928	DELAFORE O



DI AZ UNGHIA J	43486	DIUETT H A	44691	EGYPT MIN OF FINANCE	43717	ESPINOSA POVEDA A	46517
DIBB J R	46187	DRUFFUCA M	47752	ESTATIS ADMIN	49214	ESPIRITUL	44785
DICK A	45432	DRUMMOND A	42888	EHMANN W	49099	ESSON J C	42902
DICKER G H L	46188	DUBBELL R W	47999	EHMENBERG P	45368	ESSON J C	43155
DICKERSON G E	44929	DUBEAU N P	44161	EHMENBYARD G	42117	ETTINGER B	44633
DICKHUT A C	45719	DUBOIS R	41776	EHMLICH C	45016	EULER H V	44720
DICKINSON E M	44716	DUBRET R	44536	EICHNER W	46499	EUZEBY J	45189
DICKINSON F E	44416	DUBRULLE M	47516	EICHMAN O T	43702	EVANS G O	45777
DICKINSON J L	49163	DUCHAINE W J	44259	EICKELBERG E W	47753	EVANS H M	49183
DICKSON J K	47281	DUCK R W	45014	EIDAM J E	49150	EVANS M W	42309
DIEMER JOHANNSEN J	43743	DUCKWORTH J	44867	EIFRIG H	48266	EVANS O R	47392
DIENEN D VAN	43405	DUCROZ J P	47517	EIGER I Z	47668	EVANS R B	46518
DIERNHOFFER K	44582	DUDENOV A	47382	EIKELAND H J	49368	EVANS R B	47522
DIERNHOFFER K	44865	DUDGEON J A	45526	EIKHOFEL D J G	42907	EVANS R J	48174
DIERNHOFFER K	44866	DUDLEY D I	42833	EIBELT M G	42592	EVANS R L	43633
DIERNHOFFER K	45008	DUDLEY J E JR	46341	EISEMAN	48962	EVE J D T	48896
DIERNHOFFER K	45009	DUDNIK P E	46897	EISEN C	48968	EVELETH D F	48765
DIETER B	42494	DUFFY W A	44102	EISING R M	43658	EVERETT O C	44483
DIETER B	48508	DUFFY W J JR	46635	EK B	44720	EVERETT T H	42903
DIETERICH H	42876	DUFFY W J JR	43907	EKAMBARAN C	42439	EVERETT T H	43155
DIETERICH J A	46189	DUFFLOT E	46052	ELAM F L	42307	EVERETT S A	42904
DIFFENBACH G G	47282	DUFFOUR J P	46172	ELCMBEGOFF I M	44336	EVISON J R B	42719
DILL M H	42877	DUFRENOY J	41994	ELDER W R	43977	EVISON J R B	42905
DILLON C E	45011	DUFRENOY J	41995	ELDREDGE C J	42197	EVRETT P	46797
DILLON C E	48170	DUFRENOY J	44717	ELDREDGE D B	43745	EVRETT P V A	42658
DINDALE D H	46124	DUFRENOY M L	44717	ELDREDGE J C	41951	EVRETT P V A	42906
DINDMORE R P	48723	DUFRENOY M L	41995	ELDRIDGE M T	48916	EWALT H P	47175
DINDMORE W	48247	DUGAS A L	46411	ELEY C P	45464	EWING F C	45163
DIONE G	45266	DUGGAN I V	48420	ELFORD W J	45526	EWING K P	45939
DIOS R	42438	DUGGAN I W	49096	ELIAS A	41697	EWING K P	45940
DIRS V A	42095	DUGAN K	43590	ELLENBERG H	43747	EYSTER W H	41497
DISHAW W	42160	DULAC J	42581	ELLENWOOD C W	42582	EYSTER W H	42720
DISTILLED SPIRITS INST	45720	DULANEY MRS R	47325	ELLENWOOD C W	49390	EYSTER W H	44080
DI 7094		DUMAIS R	47325	ELLESTAD B	49391		
DITMAN L P	46339	DUMONT J	46546	ELLIOTSON B E	41996	FABBRI	42200
DIURISH I U	48588	DUNCAN G A	41737	ELLIOTT C	42896	FABIAN F W	47756
DIXON B	44361	DUNCAN G A	47518	ELLIOTT D	42897	FABIAN F W	47757
DIXON W T	48345	DUNCAN J E	47519	ELLIOTT D	42898	FABIANI L	42310
DJU D C	42408	DUNCAN R E	41896	ELLIOTT D	46629	FABIANI L	47637
DLUGOS J T	45682	DUNCAN R E	41897	ELLIOTT J A	47946	FABRI V	48422
DMITRIEV V	48589	DUNGAN G H	42457	ELLIS C C	45527	FAHEY J E	45941
DOAK T E	47068	DUNHAM R B	42834	ELLIS D E	41778	FAIRBANK J P	46611
DOAK T E	46970	DUNLAP W H	43407	ELLIS N K	41997	FAIRBANK J P	46859
DOANE D H	48724	DUNLOP S G	43271	ELLIS N K	43737	FAIRBURN D C	42907
DOBBINS E D	47513	DUNNE H W	44027	ELLISON W	44631	FAIRCHILD G B	46262
DOBBIE J B	46658	DUMPHY L W JR	45857	ELLISON W	48894	FAIRCHILD L M	42908
DOBINSKY E	47225	DUNTON E M JR	44499	ELLISON W	48895	FALCK HANSEN H	42901
DOBZHANSKY T	46260	DUNTON H L	43745	ELLISON W	43748	FALCONER A	42909
DOEBEL K	42116	DUNWELL M W	42305	ELMER J	46636	FALK L L	44028
DOERELL E S	43575	DUNWOODY A B	42889	ELON E E	47521	FALKE E	49215
DOGLIANI E	42717	DUPERTHUIS V	47009	ELSTON W H	45683	FANTINI P W JR	45942
DOHERTY C	46051	DU PLESSIS C VON H	44718	EL TADEY A M	47754	FARLEY F W JR	44870
DOHLE W	47514	DU PLESSIS H A	43746	ELVENJEM C A	45522	FARM BUR SERV	49100
DOIG J S	42878	DUPUIS C	46456	ELVENJEM C A	45523	FARMER AND STOCK BREEDER	
DOIGNON P	41492	DUPUY P	45728	ELVENJEM C A	49264		
DOIGNON P	41547	DURQUE J P	47096	ELY C M	49310	FARMERS ELEVATOR ASSOC OF MINN	47845
DOIGNON P	41632	DURQUESE L	45610	EMANUELLI A	44950		
DOIGNON P	41633	DURAND A J	42409	EMBREE W D JR	43398	FARNHAM B W	46055
DOLE K K	48129	DURANT A J	45762	EMERSON A W	48485	FARR W K	41899
DOLGUSHIN D A	49368	DURHAM J A	48591	EMGLERTH G H	43978	FARRALL A W	43276
DOLL E R	45326	DURHAM S	42306	EMK L O	41737	FARRALL A W	43287
DOLL E R	45327	DURHAM P	47226	EMMENS J A	44583	FARRAND B	42910
DOLVEN A	47716	DURRWAECHTER	44719	EMMERT L R	47097	FARRALL F J	48523
DOMA A P	42879	DUSENBERRY H L	43908	EMPIRE FORESTRY ASSOC	46825	FARSTAD L	44138
DOMA A P	42880	DUGBART B	41639			FASSNACHT D L	44188
DOMINGUES O	45012	DUSIAN A L	42890			FASSNACHT U L	44439
DOMINGUES O	45812	DUTHEIL L J	49262	EMRICH D	48976	FAUCILLON X	47758
DOMINGUEZ GANCIA M	48822	DU TOIT J J	41777	ENDERS E	44538	FAULKNER F	46314
DOMINICAN REPUB DIR		DU TOIT J J	41843	ENDERS E	44539	FAULKNER H P	43751
DE ESTATIS	49213	DU TOIT J J	41975	ENDERS E	44540	FAUSEL W	48787
DOMMISSE J	45727	DURIANKIN F A	49311	ENDERS R K	45246	FAUST H P	47176
DOMA R	48081	DURIANKIN F A	49368	ENDERS R K	45275	FAUST H P	47347
DOMA DALLE ROSE A	41775	DYKES J C	43976	ENE DE PIRO M	42498	FAHLOW R	43346
DOMA DALLE ROSE A	43869	DYMOND J R	45897	ENGARD P T	42899	FAWCETT C H	46783
DOMADONI B	48849	DZIURZYNSKI A	46412	ENGEL A	45764	FAYOL A	49392
DONALDSON R W	42304			ENGEL F	45018	FEARNEHOUGH T D	46413
DONALDSON R W	45743	EADS F E	45192	ENGEL F	42718	FEDERATION NATL DE LA PROPRIETE PRIETE AGR	
DOMIS C	44100	EALLES H C	48173	ENGEL H	47098		
DOMISTHORPE H	46370	EALLES H C	43272	ENGELHARD J	42198	FEDOROVSKII D V	42002
DOOLE L E	46772	EALLES H C	47488	ENGELHARD J	46547	FEDOROVTSSEV	45328
DORE W G	43406	EARLE W	48509	ENGELHARD J	46637	FEDRIGO G	45329
DORMAN H J	47515	EARLEY D	45938	ENGELMAN G	47998	FEIGENBAUM J	47669
DORMON C	42881	EARLY J B	42891	ENGSTROM A	42118	FEIN M L	49346
DOROZHKIN N A	41693	EARP THOMAS G H	44078	ENKEEY KH K	44221	FELBER	43870
DORST D	41694	EASTERBROOK L F	47283	ENKIVIST T	41998	FELBER G W	43752
DORT H W VAN	42882	EASTERN SOFT WHEAT IMPR		ENSMINGER M E	44431	FELDMAN M L	46154
DORT H W VAN	42883	CONF 42196		ENTE REGION PER LA LOTTA	48018	FELDKAMP C L	48977
DORT H W VAN	42884	EASTERN STATES FARMERS		ANTIANOFELICA IN SARDEGN		FELICE P DE	48850
DOSKER C D	44362	EXCH 49097		A 46311 TO 13		FELSENFIELD O	44721
DOSSE G	41695	EASTERN STATES FARMERS		ENZINGER H	43749	FENDEL J	48460
DOUGHERTY J E	46745	EXCH 49098		EPP A W	48768	FENAROLI L	41498
DOUGHERTY R W	45013	EASTON R D	42892	EPPERSON W	44432	FENAROLI L	49216
DOUGLAS G	42885	EASTWOOD R A	48421	EPSTEIN H	43274	FENDER K M	46193
DOUGLAS T H J	44691	EATON E L	42706	EPSTEIN H	42900	FENDLEY H V	42911
DOUMONT L	42495	EAVES D	46053	EQUER M	42901	FENCER E	42145
DOUMONT L	42496	EBELING W	46190	ERASMUS J C	47844	FENCER G	42912
DOUMONT L	42886	EBERHARDT	44071	ERASMUS J C	42199	FENCER P	48725
DOUMONT L	43487	EBERLE G	42893	ERB J H	47227	FENNELT T A	48726
DOUTT R L	46340	ECKARDT A	47520	ERDMAN R L	43654	FENNER P R	45369
DOWDY W V	42887	ECKERT J E	46054	ERDMANN F	44869	FENSON K G	44178
DOWELL A A	47998	ECKL A	46701	ERDMANN H	48083	FEKUS E N	42146
DOWELL J	45284	EDDINS A H	47636	ERDTMAN G	41495	FEKUSOM E E	43979
DOWLING O F	45073	EDEES E S M	41493	ERDTMAN G	41898	FERGUSON F C	46814
DOWN E E	42195	EDEN C A M	43273	ERDTMAN H	41496	FERGUSON W S	44634
DOWNEN M L	48786	EDEN G E	48283	EREMEEV G H	41999	FERNANDES J	48084
DOWNER H E	43155	EDGE D R	46824	ERENER M	43275	FERNANDEZ O	46911
DOWNNEY A H	47751	EDMAN P	47667	ERICKSON A E	44779	FERNANDEZ GARCIA R	48295
DOWNNEY F D	45367	EDMONSON C H	44381	ERICKSON H D	44399	FENON F	47846
DOWNNS P A	46652	EDMONDS F	42894	ERICKSON J W	45017	FERNANDIS V A	43546
DOWNNS P A	47391	EDRIDGE T G	44079	ERICKSON L C	43408	FERRARA A	48085
DOZIER H L	41589	EDSON A W	49456	ERICKSON M	42308	FERRARI A	47177
DRAGACH TCHOBBITCH R		EDWARD B G F F	45015	ERIKSEN C F	44337	FERRARI J C	43489
DR 7095		EDWARDS C M	46702	ERIKSEN O	43909	FERRER R	43434
DRAGHETTI A	43609	EDWARDS C M	46702	ERNEHOLD I	43488	FERRER R F	43576
DRAGHETTI A	43744	EDWARDS C M	46702	ERNEHOLD I	41698	FERRIS E	49102
DRAKE E M	48975	EDWARDS J	44233	ERNOULD L	42000	FERRIN E F	45854
DRAKE G L	44335	EDWARDS J	44233	ERNOULD L	46191	FERRIN E F	47998
DREES H	46678	EDWARDS J	44233	ERNOULD L	46342	FERRO F	49457
DREISEITL H	43855	EDWARDS L	48142	ERTELO W	44104	FERTILISER MFTS ASSOC	
DREISEITL H	42579	EDWARDS T P	45558	ESCALANTE M J M	41779	COSTING COM	44052
DREISEITL H	42580	EDWARDSON J	45763	ESCAURIAZA R DE	42657	FETROW W W	49103
DREIZEN S	49325	EDIMOV A L	41696	ESCHENA T	42134	FETROW W W	49104
DRESCO E	46150	EFRAITI P	46151	ESCHENA T	47672	FEUGE R O	48086
DREW G	44101	ECBERTS H	42895	ESH G C	44951	FEVRIER R	48788
DREWS E	47842	ECE R	49263	ESKEW E B	43750	FHEY M	45330
DREWS E	47843	ECEW MILTE	46628	ESKEW R K	46924	FIDLER J H	46343
DREWS H E	48171	EGGERMAN E	42410	ESKEW R K	47755	FIGENSCHER C	46703
DRICOT C	46635	EGGELING W J	44103	ESMOND C	47328	FIGL	49105
DRIFT J VAN DER	43610	EGGERS H W T	46871	ESPANOL COLL F	46192	FIGURA V	45271
DRIFTMIER R H	46667	EGLER F E	41494	ESPARZA TABARES R	44632	FIJI DEPT OF FORESTRY	
DRUCE P C	48590	EGOROVA M F	44619	ESPIN J	46171	44179	



PLENI E	48851	FOURAGE J	44166	GAIN A	42412	GIER H T	45951
PLENI E	49347	FOURGEAUD J	44049	GAJRAUD R	46373	GIGANTER R	41700
PLENI W O	44574	FOURMARIER	43653	GAJJAR I M	46920	GIGGI	48981
PLONZI A	47051	FOURNIER A	47226	GALE R E	47677	GILBERT F A	42724
PLONKE M	47847	FOURNIER P	43490	GALHAUD J J	47099	GILBERT F A	45926
PINK J	43659	FOURNY L	48789	GALIAUD J J		GILBERT L	46374
PINKENBRINK W	43043	FOURY P	44261	GALLIBERT A	42722	GILCH	45744
PINN V V	41900	FOWLER M	42918	GALLARDO HERNANDEZ L		GILCHRIST A	46417
PINN KELCEY P C	46659	FOWLER R G JR	45113	GALLETT T	42927	GILG F X	48298
PINNENBURGH M L	47284	FOWLER R M	44485	GALLIARD H	46315	GILL L	44106
PINNERTY J J	48040	FOX A C	44203	GALLIEN L	45530	GILLMAN M W	48089
FINZI E	47010	FOX H M	42919	GALLINA L	45286	GILLMAN F	46750
FLORITO A	45789	FOX H W	44290	GALLO P	44801	GILLETTE J M	48928
FLORITO G M	47638	FOX I	46153	GALLO P	45025	GILLIE G W	44735
FLISOVA M K	41499	FOX L C	43980	GALLO P	44732	GILLIEAUX C	43758
FLISCHER M K	41699	FOX W W	48978	GALLOWAY I A		GILLIEAUX P	47525
FLISCHER K O	45019	FRACAMZANI C	45730	GALLOWAY CATTLE SOC OF		GILLING T	42725
FLISCHER W J	45411	FRAM LELIVELD J A	42005	GREAT BRITAIN AND IRE		GILLING T	43413
FLISCHER SCHLENN W E	42411	FRAM I W	42920	LAND 44872		GILLIS A	48929
FISCHMAN M R	46704	FRANCE DIR DE LA DOC		CALOWITZ K	45951	GILLIS M B	45465
FISH G	45039	FRANCE 48595		CALLOCKIN A	49110	GILLMAN J	49266
FISHER C M	49458	FRANCE DIR DE LA DOC		CALVIN J A	47795	GILLMAN T	49266
FISHER E E	48253	FRANCE 48596		CAMACHE C A	49111	GILMOUR J S L	42931
FISHER G D	43774	FRANCE DIR DE LA DOC		CAMARRA DULANTO L	44040	GILS A	49114
FISHER S W	46344	FRANCE 48297		CAMBERINI P	44585	GILSON H M	42726
FITCH C L	45898	FRANCE DIR GEN DES DOVA		CANDY E	48979	GIMENO J M	48855
FITCH C L	47964	FRANCE 46930		CANGSTAD E O	47703	GIMENO J M	48856
FITE C A	46803	FRANCIS J	47397	CANNON A	48175	GIMPLES R	46828
FITE G C	47759	FRANCLEMONT J G	46415	CANTZ H L	44873	GIRACAMA A	48347
FITZGERALD D A	43634	FRANCO C M	41500	CANZ A	42723	GIRAUD A	44107
FITZGERALD O A	49333	FRANK E R	45023	CAPEN K M	42386	GIRIDLIAN J N	42932
FITZPATRICK D	48593	FRANKENA H J	47178	CAR K A	45952	GIROUY P	44736
FJELDDALEN J	45285	FRANKENBERG G	45899	CANCIA A L	46931	GIROUY G	45028
FJELDDALEN J	46056	FRANKENBERG G VON	45370	CANCIA L F	46265	GISH C L	45466
FJELDDALEN J	45328	FRANKLIN G C	45947	CANCIA ALFONSO D C	44586	GITELMAN P	47013
FLACCOMIO E E	45944	FRANKLIN H C	43416	CANCIA DE OTEYZA L	48727	GIUBBILEI C	45372
FLACCOMIO E	46679	FRANKTUN C	42160	CANCIA MENENDEZ B	49459	GIUDICE R	48008
FLACHS K	42913	FRANZKE C J	44728	CANCIA NUCHER L	42441	GIULIANI R	44587
FLANDERS M	47393	FRASER A	47851	CANCIA SEHRANO E	48703	GIULIANI R	44825
FLAWN L	48087	FRASER D E	44234	CANCIA VICENTE J	43546	GLADES K	44463
FLAWN L	42003	FRASER F A	49217	CANDINA AZZI E F	45531	GLAETZER R	42933
FLAWN L	42914	FRASER J G C	41840	CANDINER C M	42459	GLAETZER R	42934
FLAWN L	44082	FRASER R R	43278	CANDINER C M	49112	GLASNEROVA E	49349
FLAWN L	43277	FRATEPIETRO C	48597	CANDINER C B	42168	GLASSOW W K	42203
FLAWN L	45945	FRATZIER M W	46416	CANDINER R A	49150	GLASSCOCK R S	42297
FLAWN L	42004	FREAK M J	45194	CANDINER H	43660	GLASSER	45855
FLAWN L	42311	FREAR D E H	45948	CARM O	44567	GLATHE H	43611
FLAWN L	42915	FREDERIKSEN H	42313	CARM H V	45026	GLEASON C H	43981
FLAWN L	48594	FREE M	42921	CARNER H V	47755	GLENN E M	42780
FLAWN L	45020	FREE M	42922	CARNETT W E	46773	GLIEMEROTH	46705
FLA BD OF FORESTRY AND		FREE M	42923	GAROGLIO P G	42120	GLIEMEROTH G	43549
PARKS 44260		FREE M	42924	GAROGLIO P G	47678	GLIEWE O	45684
FLA CITRUS COMM	47807	FREE M	42925	GARRAD J	44691	GLISTA W A	45493
FLA FOREST SERV	44180	FREE M	43409	GARRARD E H	45517	GLOYER S W	48090
FLA STATE CHEM	45946	FREE M	41501	GARRARD E H	45532	GLOZIC B	44502
FLORIO R	44723	FREE M	46660	GARRATTSON J E	46863	GLOZIC B	48378
FLORIO R	44722	FREE M	44729	GARRIGUES DIAZ CANABATE		GLUCKSMAN E J	47323
FLORY J	49256	FREE M	46263	GARRIGUES W P P	44637	GLUCKSMAN E J	47380
FLOYD T S	45729	FREE M	46826	GARRIGUES W P P	44953	GLYN R H	45231
FLUCKIGER G G	44724	FREE M	48000	GARRISON C S	48906	GLYNN J K	45398
FLUCKIGER G G	44725	FREE M	45024	GARRISS H R	41778	GMINDER E	49115
FLUCKIGER G G	44726	FREE M		GASHE R	47523	GNEDENKOV A	47526
FLUCKIGER G G	44727	FREE M		GASKILL A	41781	GODDARD J H	44304
FLUCKIGER G G	45021	FREE M	43871	GASKIN A G	41782	GODDARD J H	42935
FLUCKIGER G G	45022	FREE M	43872	GASPARIDIS D		GODDARD J H	42936
FLUCKIGER G G	45528	FREE M	45155	GASPARINI M	45164	GODEL A	47229
FLUNO J A	46314	FREE M	41932	GASPARINI M	48500	GODFREY C G	45613
FLURSCHUTZ F	47228	FREE M	42201	GASPART E	43578	GODECKE M	47538
FLYNN T J	45193	FREE M	41901	CASSER C W	48600	GOETZ C	43612
FOBES E E	44297	FREE M	48001	CATES F C	41870	GOFFER A	45954
FOBES E E	44298	FREE M	48001	CATES P J	48176	GOFMAN M	45467
FOBES E E	44299	FREE M	41913	CATTLEY P	42928	GOLDANICH G	41902
FOBES E E	44300	FREE M	46057	GATTY KOSTYAL M	43493	GOLDACH GEISSEL E	48982
FOBES E E	44301	FREE M	44779	GAUBA E	41548	GOLDBERG M	45955
FOBES E E	44302	FREE M	49348	GAUBE G	45700	GOLDING N S	47230
FOBES E E	44303	FREE M	45195	GAUDENTI A C	47053	GOLDMAN L	46154
FOBES E E	44312	FREE M	47286	GAUL	43756	GOLDSBY A I	45765
FOBES E E	44312	FREE M	42926	GAUL A G	47852	GOLDSCHMIDT R B	46266
FOCK J D	48296	FREE M	46264	GAUMONT R	45337	GOLDSWORTHY M C	41783
FOISY I	45611	FREE M	48584	GAUMONT R	46405	GOLTZ VON DER	47641
FOLLONI A	43753	FREE M	41578	GAUTHERET R	43433	GOLUBINSKII I N	43494
FONDARD L	45790	FREE M	43410	GAUTHEY M	45432	GOMES A O	47100
FONDARD L	48423	FREE M	43554	GAUTIER J	47524	GOMES P	44108
FONDARD L	46194	FREE M	45529	GAUTIER WALTER A	46548	GOMES P	44575
FONSECA J P DA	43547	FREE M	49108	GAVARRO F F	47896	GOMEZ J J	48299
FOOD AND AGR ORGAN OF THE		FREE M	47260	GAVREL M	42929	GOMMEL W	46613
UNITED NATIONS	43911	FREE M	41685	GAY C W	45027	CONASHVILI SH G	47231
FOOD AND AGR ORGAN OF THE		FREE M	41502	GAZZERA E	48126	CONCERNER N	48091
UNITED NATIONS	44433	FREE M	44105	GEBBAUER O	45332	CONGGRYP J W	44109
FOOD AND AGR ORGAN OF THE		FREE M	41933	GEDDES A	48852	GONZALES TAFUR O B	48984
UNITED NATIONS	46884	FREE M	48598	GEE C W	48980	GONZALEZ I	44075
FOOD AND AGR ORGAN OF THE		FREE M	48082	GEERT PETERSEN K	49215	GONZALEZ L M	44721
UNITED NATIONS	46885	FREE M	49218	GERGERMAN E A	41712	GONZALEZ ARROYO S	45721
FOOD AND AGR ORGAN OF THE		FREE M	49051	GEIB A F	46316	GONZALEZ GARCIA F	43581
UNITED NATIONS	47052	FREE M	49109	GEL FANDBEIN P S	42008	GONZALEZ HERNANDEZ M	
FOOD AND AGR ORGAN OF THE		FREE M	43912	GELINAS P A	46827	GONZALEZ MIRAVALLS A	
UNITED NATIONS	49426	FREE M	45949	GENERAL COOP ASSOC OF JEW		GONZALEZ MIRAVALLS A	
COUNCIL		FREE M	44952	ISH LABOUR IN ISREAL		GONZALEZ MIRAVALLS A	
INTERNATL EMERGENCY		FREE M	45950			GOOCH E G	48510
FOOD COM SUB COM ON		FREE M	48599			GOOD B H	45373
RICE FOR SO EAST ASIA		FREE M	48804			GOODALE E W	47527
FOOT DIV	48088	FREE M	46345			GOODALE H D	45414
FOOTE J E	44484	FREE M	49265			GOODALL D W	42010
FORBES W T M	46414	FREE M	49265			GOODIN R E	41837
FORD K O	44635	FREE M	45526			GOODINE J M	48280
FORD W H	42312	FREE M	46032			GOODNITE J T	45114
FORESTI C	47922	FREE M	48902			GOODWILLIE J D B	47287
FORET J A	42499	FREE M	46372			GOOT P VAN DER	46418
FORGEOT P	45005	FREE M	43491			GOOT P VAN DER	46419
FORMIGONI	46747	FREE M	46519			GOPALAN K	47642
FORREST J	46612	FREE M	45412			GORB T V	45745
FORSTER A	46912	FREE M	42006			GORBAKHEVA A P	47232
FORSTER A VON	47011	FREE M	46058			GORDEUK A	48177
FORSTER R R	46152	FREE M	45371			GORDON E T	42937
FORSTMEIER G	44636	FREE M				GORDON E T	42938
FORTE F	44083	FREE M				GORDON R F	45534
FORTIN D	42273	FREE M				GORELL E	42939
FOSTER A O	45355	FREE M				GORHAM J R	45259
FOSTER C B	42440	FREE M				GORI R DE	47665
FOSTER D C	45612	FREE M				GORMAN J A	45287
FOSTER E C	45331	FREE M				GORNALL W B	47463
FOSTER G	46748	FREE M				GORSLINE E P	48178
FOSTER H L	42916	FREE M				GORTSEVSKII S A	45334
FOSTER J L	42119	FREE M				GOSI L	42204
FOSTER J L	44084	FREE M				GOSSET J	48248
FOSTER S W A	42917	FREE M				GOTTSHALL R	42940
FOSTER S W A	42917	FREE M				GOTTSHALL W	42940
FOSTER S W A	42917	FREE M				GOTZE R	45029
FOSTER S W A	42917	FREE M				GOULD C J	41798
FOSTER S W A	42917	FREE M				GOULD E	46420
FOSTER S W A	42917	FREE M				GOULD I A	47390
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					
FOSTER S W A	42917	FREE M					



01503 GRUEN F H	48425 HAMM R	47585 HAUCK	46552
46457 GRUNDMAN A W	45340 HAMMAN A J	43903 HAUCK E	45165
48483 GUALAZZI A	48859 HAMMAR G	49461 HAUCK E	45197
45856 GUALBA C	41785 HAMMER O	48180 HAUCK E M	49267
48601 GUALT A	44235 HAMMERLER W	44741 HAUGERUD H	42319
48111 GUARDIA A UE LA	48614 HAMMET M	48484 HAURY H	45962
47288 GUATEMALA DIR GEN DE	HAMMOND O	48512 HAUSEN S B V	42096
42160 ESTADIS 47054	HAMMONDS C L	48146 HAUSLEITNER R	48513
42941 GUEIT	HAMMER C L W	48075 HAUSSMANN G	42320
49376 GUENON A D	45374 HAMPTON C W	49221 HAWKES A D	42958
46387 GUENTHER E C C	48094 HAMPTON R N	48790 HAWKES A D	42959
44305 GUERANDE C C C	45418 HANAU A	49427 HAWKES A D	42960
44996 GUERANDE C C C	45469 HAND J A	47643 HAWKINS B S	43769
43282 GUERANDE C C C	45616 HANDS J A	45960 HAWKINS B S JR	42277
48011 GUERANDE C C C	45617 HANF W	41703 HAWKINS G E JR	44952
RAIN AND FEED DEALER Z	45618 HANGER F F E W	42953 HAWKINS P A	44770
NATL ASSOC 47853	42011 HANGER F F E W	42931 HAWKS S N JR	48340
RAMACHO D	42011 HANKE W F	46549 HAWK8 S N JR	46801
RANDFIELD C O	42013 HANLEY F F	43584 HAWLEY G E	45557
RANDJEAN F	HANN M	43765 HAWORTH K	43770
RANDY D D	41786 HANNAN M H	47671 HAWORTH BOOTH M	42961
RANGE C	47528 HANSEN A C	46968 HAY R	41506
RANGE L I	48860 HANSEN A C	47395 HAY R	42490
RANHALI I	47856 HANSEN C M M	49394 HAY T	42962
RANHALI I	45288 HANSEN C M M	43287 HAY T	42963
RANOVSKY A A	46061 HANSEN C M M	43807 HAY W W	44434
RANT C	41549 HANSEN H H	44264 HAYASHI R	44435
RANT C L	42948 HANSEN H J	43914 HAYCOCK A H	42149
RANT H B	42949 HANSEN H J	42317 HAYES H K	48184
RANT J	44737 HANSEN R S	48909 HAYES W J JR	46508
RANT J A	42727 HANSEN S H	48181 HAYS F A	45537
RANT V	48315 HANSENS E J	45722 HAYSTEAD L	48991
RASSBERGER K	47949 HANSEFORD C G	46268 HAYWARD A	45032
RASSE P P	44262 HANSON A A	1647 HAZELWOOD A J	45792
RASSIE J C	49117 HANSON A A	44236 HEADEY C	45623
RATON A	43580 HANSON D N	47016 HEADY E O	43998
RATON A V	41904 HANSON K	42564 HEADY E O	48781
RAU F V	47328 HANSON P D J	44113 HEADY H F	42321
RAVES G A	43873 HANWAY J J	43766 HEATH G D	45963
RAVEY A	43761 HANWAY J J	43767 HEATH M E	42326
RAY J A R	48095 HAO I	44876 HEATON D	46125
RAY M L	47529 HAO I	45033 HEAZLEWOOD W V	48073
RAY NT	46915 HARDENBURG E V	43288 HEDDEN A	46126
RAY RC	46932 HARDENBURG E V	47761 HECHT A	41905
RAY S D	47180 HARDIN C M	45536 HECK P	48461
RAY T D	47857 HARDIN L S	48944 HECK F	44743
RAYSON A R	43983 HARDING T S	43278 HECK F	45033
RAZIOSI F D	48052 HARDING T S	46887 HECKL R	44382
REANEY F J	41934 HARDY C	48988 HECKMAN J H	47679
RE BRIT BD OF TRADE	47950 HARDY D E E	46751 HEDDERGOTT K	46199
RE BRIT COLON OFF	48053 HARDY D E E	45375 HEDDERGOTT K	47532
TO 11	48041 HARDY E	46269 HEDGE A M	43985
RE BRIT COMMONWEALTH ECON	43762 HARDY E A	45376 HEDGES I R	47291
COM 48393	44306 HARDY E A	48099 HEDLIN R	48992
INTEL BR 47808	48101 HARDY J I	43418 HEDLUND T	42015
RE BRIT MIN OF AGR AND	47951 HARDY J I	47531 HEERMANCE E L	45255
FISHERIES 41701	43581 HARDY J I M P	48182 HEETEREN H V A VAN	43498
RE BRIT MIN OF AGR AND	41587 HARGRE	47531 HEGGDALE R	42661
FISHERIES 43759	42115 HARING	45961 HEID J L	47763
RE BRIT MIN OF AGR AND	43763 HARMEL L S	42207 HEIDE J L	44077
FISHERIES 46784	41646 HARMER L S	43289 HEIDENREICH	45964
RE BRIT MIN OF AGR AND	41787 HARO C	42954 HEIM B	47645
FISHERIES 47760	48096 HAKPER H	49006 HEIM W M	48426
RE BRIT MIN OF AGR AND	45858 HAKPER J A	48989 HEIMERAN O	47533
FISHERIES 47014	45470 HAKPER J A L	43704 HEIN E N	44338
RE BRIT PRIME MINISTER	43417 HAKPER J L C	45420 HEINEN R	41535
48612	44041 HAKKINGTON L	45622 HEINEN R	43419
RE BR	48097 HAKKRIS A J	44877 HEINRICH O H	46550
HEAT LAKES STEEL CORP	42206 HAKKRIS B K	43650 HEINRICH S C	47396
STRAN STEEL DIV	48511 HAKKRIS C W E R	44323 HEISE A C L	43471
HEAVES J H	43661 HAKKRIS D E E R	48902 HEITERT G L	44399
GREEN A E	48098 HAKKRIS E E R C	49436 HEITMANN W	43292
GREEN C J	44701 HAKKRIS E E R C	43495 HEITZ E	41906
GREEN J	44738 HAKKRIS J B E J	45377 HEITZMANN P	47923
GREEN S	42499 HAKKRIS J L J R	44373 HELFANDER A B	44181
GREENBANK G W	45869 HAKKRIS L L J R	42955 HELFANDER B	47670
GREEN C T	43283 HAKKRIS M A S	41973 HELING O	49150
GREENE R S	43284 HAKKRIS R W M	44878 HELMER C A	49268
GREENHALGH J	45335 HAKKRIS R W M	46520 HELLMAN E A	46422
GREENIE C W	44085 HAKKRIS R W M	43496 HELM C A	43293
GREENWOOD R	45901 HAKKRIS R W M	46913 HELMENIUS A	48054
GREER E N	47055 HAKKRIS R W M	45933 HELMERS A E	44230
GREER F G	44739 HAKKRIS T W M	42783 HELYE D	42662
GREER T	46196 HARRISON G J W H	49350 HEMBREE J B	48993
REGORY C L	43764 HARRISON P K M	42660 HEMON C	43497
REGORY W C	45419 HARRISON P K M	41505 HEMPEL K	44114
REIDANUS G	45957 HARRISON W M	42088 HENAUULT N	48185
REIDANUS G	48179 HARSHBARGER G	46421 HENDECOURT R D	46270
REIDLACH Y A	42950 HART G H	46197 HENDERSON E G S	43294
REVE S G	46340 HART G W	48349 HENDERSON G B	46680
REW R	43285 HART J	42956 HENDERSON J R	44952
REY C H	41702 HART M L T	44742 HENDERSON J R	43668
RIDER B	44826 HART S L H	42957 HENDERSON M W T	41935
RIDEBELER W L	44720 HAKT W J JR	42406 HENDERSON M W	45538
RIDESSINGER I C	48267 HAKTAN H	43768 HENDRICKS S B L	44042
RIFFINER I P	44740 HAKTARD EBERT M	48485 HENDRICKX F L	41648
RIFFITHS J D	46830 HAKTLEY W F	47762 HENGLEIN F A	47671
RIFFITHS J T JR	48615 HAKTMANN G	48990 HENICK J B	44880
RIFFITHS J T JR	45619 HAKTMANN G S E K	42276 HENKEL H	44639
RIFFI L N	45535 HAKTSELL S E K	41872 HENNERICH G W	47329
RILLOT G	42728 HAKTSUIKER E	46785 HENNING E	44115
RILLOT M	46033 HAKTWIG E E	46786 HENNING G F	46933
RILLOT M	43984 HARTZ G	48183 HENRIKSSON A	44954
RILLOT M	42951 HARUKAWA C	43550 HENRY A H	45512
RILLOT M	48003 HARVEY G	42414 HENRY A J	42121
RILLOT M	45620 HARVEY P N	42208 HENRY L C	43771
RILLOT M	44263 HARVEY P N	49409 HENRY M	44182
RILLOT M	48987 HARVEY W A	47644 HENRY R S	46934
RILLOT M	45567 HARVEY W T	42442 HENSCHEL H	45272
RILLOT M	42014 HASEBORG G P TEN	43290 HEPBURN E A	46860
RILLOT M	45958 HASKELL R J	46671 HEPBURN J M	45421
RILLOT M	47687 HASLAM R J	48110 HEPLER J R	43295
RILLOT M	43286 HASSLERBERG G	47858 HEPP E W F	43296
RILLOT M	48908 HASTINGER	41704 HERBERT J W	47688
RILLOT M	45621 HASTINGS D M	42458 HERBERT P A	45965
RILLOT M	45471 HASTINGS E W R	43291 HERBERT P A	44568
RILLOT M	45472 HASTINGS E W R	44879 HERBOLSHIMER A	46062
RILLOT M	45522 HATCH E D	42503 HERBSTHOFER F	46638
RILLOT M	45523 HATCH E D	46198 HERBSTHOFER F	46661
RILLOT M	48018 HATCH E D	42502 HERBULOT C	46400
RILLOT M	45959 HATCH E D	41581 HERGENREDER J	42964
RILLOT M	46459 HATLEY H N	41582 HERINGER F J	46551
RILLOT M	42952 HATTOW J G	41583 HERINGER J	46855
RILLOT M	41871 HATZ F	41584 HERMAN A	47102
RILLOT M	43583 HATZFELD G H	46972 HERMAN A	45502
RILLOT M	48804 HAUCK	47728 HERMAN N K	44140
		45709 HERMS W B	46156
		42148 HEKUNDO V	43582



HEINHOOD C A	48994	HOLDAYWAY C W	44964	HUGUET F	42415	IRENEE MARIE FRERE	41640
HEROLD	47953	HOLE F D	43673	HUKILL W V	47765	IRGENS MOLLER H	42984
HEROLD E	46375	HOLEC E	46475	HULA	41708	IRWAY H DE	44164
HEROLD F	47954	HOLLAND L J	42971	HULBERT L S	49125	IRVIN D B	44456
HEROLD G	48861	HOLLAND P J	45877	HULBURN W C	43745	IRVINE O R	47404
HEROLD H	48995	HOLLAND R F	47407	HULBURN W C	43807	IRWIN M H	44595
HEROUVILLE H D	49312	HOLLAND W W	44487	HULL A C JR	42328	IRWIN R A	46832
HERRAN K	44204	HOLLOWELL E A	42386	HULL R B	46521	ISAZA J M	47541
HERRERID E O	47397	HOLM H	42972	HULME A C	42123	ISE J	49224
HERRERRELL C	42385	HOLMAN C	47360	HULSHOF F T	47766	ISECKE E	42212
HERRERA C G	48078	HOLMAN R T	48102	HUMBEL E	46443	ISELY C C	47862
HERRICK L	42626	HOLMES E L	45968	HUMBERT R P	43688	ISELY D	45973
HERRICK J B	44881	HOLZ W	46346	HUMBERT W	42329	ISHIBASHI Y	43557
HERRLINGER F	42122	HOLZ W	46347	HUME E P	42508	ISHIHARA M	43562
HERRMANN M	45116	HOLZBERLEIN D W JR	46127	HUMPHREY R R	42327	ISRAELASHVILI S	47669
HERTZ M	46271	HOMAN J L	47292	HUNI A	48790	ISTITUTO ZOOTO E CASEARIO	
HERTZ R	45539	HOMM F J	48103	HUNSAKER R C	45746	PER IL PIEMONTE TURIN	
HERZOG T	41634	HOOD E C	47401	HUNT R	41836		
HERZOG T	45922	HOOF L V	46272	HUNTER D	44691	ITHIER H	46614
HESELTIME H K	47103	HOOGTEIJLING P P J	45551	HUNZIKER O F	47403	ITO H	43302
HESS E	47859	HOOGTEIJLING P P J	45552	HURD A	48104	ITTNER N R	44831
HESSBURG J P	47534	HOOGTEIJLING P P J	45553	HURD R M	42330	ITTNER M R	47956
HESSLER L E	43772	HOOPER J A	47536	HURD T N	44408	IVANOV P	47183
HETHERINGTON E	42965	HOOPER J A	49147	HURLBUT M S	46317	IVANOVA A A	48106
HETRICK J H	47398	HOORE J D	45554	HURPIN J	46965	IVANOVA Z V	46202
HETTERICH C	44363	HOOS	44542	HURPIN J	46128	IVEY J E	48691
HETZ C W	42504	HOOVER C D	42023	HURPIN J	46129	IWAKAKI M	43303
HEUBOCK E	45701	HOPE C R	49119	HURST F	45794	IWAMA S	43303
HEUS J G DE	44649	HOPE D E C	46973	HURST H	46668	IYAK K	43621
HEUSER G F	45465	HOPF W	48486	HURT R H	41789	IZSAK J A	47188
HEWITT G	44029	HOPGOOD R F	45555	HURT R H	41790		
HEWITT J L	41936	HOPKINS D P	47402	HURTUBISE J A P	44141	JAAK R G	45541
HEYDECKER W	43773	HOPKINS J A	48781	HUSEMAN E	47538	JACKSON H	48619
HEYL R E	47399	HOPKINS J C F	41788	HUSTON T M	45540	JACOB C	42985
HEYMAN A N J	47535	HOPKINS J F	49397	HUTCHESON T B	42211	JACOB C	43304
HEYWOOD V H	41585	HOPPER	42973	HUTCHESON T B	44047	JACOB K D	44054
HICKS O C	42966	HOPPER E G	43635	HUTCHINSON J	45118	JACOB K D	44055
HICKS S D	46200	HOPPER M E	45150	HUTCHISON O K	42119	JACOB M P	47107
HIENTON T E	46831	HOPPER W C	47860	HUTSCHENHEITER C	45289	JACOBBS H L	42986
HIGGBOE E C	43526	HOPSON G H	46598	HUTSON W K	42978	JACOBBS M B	47108
HIGGINSBOTTOM C	47233	HOPSON G H	46600	HUTTAR J	45629	JACOBSEN A P	47057
HIGGINS E B	42967	HORAK O	42325	HUTTENLOCHER F	42979	JACQUE R	47991
HIGGINS F H	46706	HORBER E	45969	HUTTO E E	42331	JACQUIN P	47800
HILBERT F L	44501	HORN N L	44031	HUTTON B	49063	JACQUOT H D	43987
HILBORN M T	45948	HORN S F	49398	HUTTON J	45422	JACQUOT R D	41985
HILBRANDER H C A N	47104	HORN A F RANTZIEM H	41588	HUTTON J	45423	JACQUOT R D	41985
HILDITCH T P	48100	HORNE F R	42150	HUXLEY A	46888	JAGERSCHMIDT	44142
HILFMAN J L	47234	HORNER G M	43775	HVOSEFF O	45444	JAGGI E	48620
HILL C	46950	HORNER W H	43421	HYAM R I C	45230	JAHNEL J	44748
HILL O J	44640	HORNEY J T	44884	HYLAND F	48280	JAIVENOIS A	42586
HILL R C	48940	HORR W H	41627	HYLER J E	44307	JAIVENOIS A	43777
HILL R E	46201	HORRING J	48618	HYLER J E	44307	JAKHADE V M	48427
HILL T N S	47017	HORSFALL F JR	41705	HYLER J E	44437	JAKOVILIV C	47647
HILLERY W O	42016	HORTH C	42585	HYLER J E	44438	JALKANEN P I	42665
HILLERY W O	42968	HORTON B C	46730	HYLER J E	44513	JALOGNE A	46540
HILLI A	43420	HORTON M D	46935	HYTTINEN A	44514	JAMES H B	48760
HILLMAN	45731	HORWITZ B M	47331	IACHAN A	44488	JAMES L E	45413
HILPOLTSTEINER L	43580	HORWOOD R E	45117	IACHAN A	44515	JAMES L E	45533
HILTPOLD M	45432	HOSKINS H P	45199	IAKOVLEVA V I	47172	JAMES R S	45630
HINCHCLIFF K	46775	HOSKINS R N	44116	IAKUSHKIN I V	41712	JAMESON M R	47542
HINCKS W D	46494	HOSKINS R N	44116	IAKUSHKIN I V	42151	JANE F W	44400
HINKHOUSE F W	44955	HOTCHKISS N	49292	IATSYNA L T	43301	JANG R	47767
HINTON C L	46951	HOTTES A C	41589	IBACH D B	46286	JANN G J	41523
HINTZE S	43297	HOTTES A C	42505	IDAHOCROP INS ASSOC INC	48862	JANNA A	43705
HINTZE S	43298	HOUDELOT C	42506	IGO K	48862	JANSEN P	41551
HINTZE S	47764	HOUGAS R W	45036	IHRIG H G	48862	JANSEN P	43999
HINTZER H M R	49313	HOUGH W S	41706	ILDIS P	42980	JANSEN K	43916
HIRSCH A	45088	HOUGHTON K W	42974	ILGENFRITZ A B	44163	JANZ N J L	46707
HIRSCH A	47235	HOULDSON E C E	42974	ILLARTEIN M F	42090	JANTKE A S	45451
HIRSCHFELD W K	44956	HOULDSON F	45685	ILLINGWORTH F	44163	JANVRY J C DE	46681
HISCOX E R	44956	HOULDSON F	48005	ILLINGWORTH F	45337	JANVRY J C DE	46681
HITCHIN H E	47330	HOUT F VAN	42975	ILLINGWORTH F	44830	JANVRY J C DE	46681
HITE J P	46063	HOUT F VAN	42975	ILLINGWORTH F	44830	JANVRY J C DE	46681
HITZEL A	48186	HOUT F VAN	45624	ILLINGWORTH F	44830	JANVRY J C DE	46681
HIXSON E	42754	HOVEY C L	45723	IMAZU T	43074	JARRELL T D	49352
HJELM L	46201	HOWARD R	45970	IMES M	43509	JARVIS R	45290
HJELM L	46733	HOWARD R B	48790	INDIA DEPT OF COM INTEL	45355	JAUME	46066
HOAG W G	46733	HOWARD R W	43204	AND STATIS	47056	JAUME J	44832
HOARD B	47720	HOWARD R W	42013	INDIA DEPT OF COM INTEL	47056	JAUME J	44832
HOARE A M	46815	HOWARD R W	44641	AND STATIS	49222	JEAN BLAIN M	47957
HOBGOOD P	46630	HOWARD R W	48996	INDIA FOREST RES INST	49222	JEAN BLAIN M	47957
HOBSON A	46872	HOWDEN A S	45686	INDIA FOREST RES INST	44545	JEANMAIRE H B	45853
HOBSON G	49118	HOWE P E	44545	INDIA OFF OF THE AGR MKTG	47344	JEFFORDS D B	43501
HOBSON G	44882	HOWELL C E	47344	ADV	47539	JEFFORDS D B	43501
HOCHREUTINER B P G	41586	HOWELL W	47018	INDIAN CENTRAL COTTON COM	47540	JEGARD	42987
HOCKENHULL D J D	41483	HOWES F N	45336	IND VET MED ASSOC	47540	JELITTO C R	48112
HOCKETT R C	48300	HOWES H	46273	COM ON SMALL ANIMALS	44745	JENKINS M A	42988
HOCKETT R G	49314	HOWES H	43499	LARGE ANIMAL COM	44745	JENKINS M A	42988
HOCKEY J F	42706	HOWES H	45625	PUB RELAT COM	44746	JENKINS M A	42988
HODGE W H	41587	HOWLAND J E	45626	INGALLS N W	44747	JENKINS M A	42988
HODGES E M	42322	HOWLAND J E	45627	INGALLS N W	44747	JENKINS M A	42988
HODGINS H J	44183	HOWLAND J E	42507	INGRAM M	42981	JENKINS M A	42988
HODGKIN C	48617	HOWSE A C	42976	INGRAM M	46752	JENKINS M A	42988
HODGMAN S F J	45198	HOYMAN W G	45971	INGRAM M	47717	JENKINS M A	42988
HODGSON B	49395	HOYOS A	47537	INGVASON P A	42332	JENKINS M A	42988
HODGSON G E	45473	HOYOS DE CASTRO A	42020	INGWERSEN W	42332	JENKINS M A	42988
HODGSON R C	44957	HOYT H W	43540	INGWERSEN W	42982	JENKINS M A	42988
HODGSON R E	42969	HOYT L W	43585	INNES J R M	42983	JENKINS M A	42988
HODGSON R W	42017	HUANG C	48514	INNES J R M	42983	JENKINS M A	42988
HODSON E A	42323	HUANG C	47181	INNSO W M	45201	JENKINS M A	42988
HODSON E A	42324	HUARD G	45972	INNSO W M JR	45475	JENKINS M A	42988
HOED F	47105	HUARD G	46423	INSTITUT NATL POUR	45512	JENKINS M A	42988
HOED F	44162	HUBBARD E B	48791	L ETUDE AGR DU CONGO	41550	JENKINS M A	42988
HOEHNE F C	44162	HUBER H	41550	BELGE	42153	JENKINS M A	42988
HOEKZEMA J P	45966	HUBER L	46315	INTER AMERICAN CONF OF	42729	JENKINS M A	42988
HOERNLE	44541	HUBER M G	42729	AGR	47106	JENKINS M A	42988
HOEVEN W VAN DER	48355	HUBERTY M R	47106	COMITE EJECUTIVO	49428	JENKINS M A	42988
HOEFER	44744	HUBERTY M R	42209	INTER AMERICAN INST OF	46805	JENKINS M A	42988
HOEFER F	44827	HUBERTY M R	44543	AGR SCI	44543	JENKINS M A	42988
HOEFER F	45034	HUBERTY M R	46805	ADM COM	49429	JENKINS M A	42988
HOEFER J	42018	HUBERTY M R	443915	ADM COM	49430	JENKINS M A	42988
HOFF S	47448	HUBERTY M R	458226	INTERNATIONAL BABY CHICK	48188	JENKINS M A	42988
HOFFMAN G T	47400	HUBERTY M R	48917	ASSOC	48188	JENKINS M A	42988
HOFFMAN M B	43774	HUBERTY M R	48187	INTERNATIONAL COMM FOR	48105	JENKINS M A	42988
HOFFMAN O F	48930	HUBERTY M R	42977	THE STUDY OF FATTY	48105	JENKINS M A	42988
HOFFMANN	45035	HUBERTY M R	43300	WATER	48105	JENKINS M A	42988
HOFFMANN	48004	HUBERTY M R	45628	INTERNATIONAL CONF ON	48105	JENKINS M A	42988
HOFFMANN A	45967	HUBERTY M R	42210	SOIL MECH AND FOUND EN	43556	JENKINS M A	42988
HOFFMANN E	45464	HUBERTY M R	44436	GIN	43556	JENKINS M A	42988
HOFFPAUR C L	48101	HUBERTY M R	43986	INTERNATIONAL COTTON ADV	49223	JENKINS M A	42988
HOFFPAUR C L	48105	HUBERTY M R	45814	COM	49223	JENKINS M A	42988
HOFG P R	48798	HUBERTY M R	45181	INTERNATIONAL DAIRY CONC	47782	JENKINS M A	42988
HOFLINGER K	47646	HUBERTY M R	44829	INTERNATIONAL LABOR ORGAN	47782	JENKINS M A	42988
HOFMEYER J D J	43299	HUBERTY M R	47955	REG MEETING FOR THE NEAR	42326	JENKINS M A	42988
HOGG R	44828	HUBERTY M R	42664	AND MIDDLE EAST	48515	JENKINS M A	42988
HOGG W	49396	HUBERTY M R	44642	INTERNATIONAL SUGAR COUN	45063	JENKINS M A	42988
HOGSTROM G	44883	HUBERTY M R	47251	IOIRISH N P	47924	JENKINS M A	42988
HOHMAN H J	42117	HUBERTY M R	46064	IOWA AGR EXPT ASSOC	47861	JENKINS M A	42988
HOHNE	42969	HUBERTY M R	48337	IOWA DEPT OF AGR	48897	JENKINS M A	42988</



41746 KAUFMAN J J	47687 KLEIN F	46070 KRASNOPEKOVA E G	42590
41746 KAUFMAN J J	48517 KLEIN J W	44960 KRASSTINA K	43428
44220 KAUFMANN B J	49000 KLEIN K	46208 KRAATZ H	43310
44221 KAUS W	45768 KLEIN L G	43005 KRAUCH H	44267
48998 KAWARADA M	47771 KLEIN L G	43423 KRAUS J E	47774
44751 KAWECKI Z	46348 KLEIN M	45710 KRAUSE O	45208
41951 KAWKER G B	44588 KLF N M	45711 KRAUSS	46078
42993 KAY R	43000 KLEINER P	43006 KRAUT H	49271
46203 KAZANTSEV N D	48864 KLEINZELLER	48108 KRAVCHENKO T M	45341
46424 KAZENAS L U	41791 KLEIN E A	43784 KREBLICH J	48626
48931 KEANE F W L	42672 KLEIN E A	47547 KRECHW	48008
46554 KEBBY R G	41840 KLESSIG E	44185 KREJCI L E	45544
46833 KEEBLE S R F	42589 KLINE A A	44373 KREMEN S S	48043
49270 KEENER H A	44645 KLINE A B	44059 KRENN E	45043
47543 KEIGER R F	46834 KLINE E A	48018 KRENN E	45119
49123 KEILHOLZ F J	48192 KLINGE A	48428 KRENN E	45770
44456 KEIM J F	49001 KLINGER M	45769 KRENN E	45771
48351 KEITH A	44885 KLINGLER H	45205 KRENN E	48020
41590 KELLER J C	47689 KLINGLER H	45206 KRENN K	44222
41709 KELLEY E C	45494 KLINGMAN G C	43424 KRICKL M	42814
42627 KELLEY R B	44886 KLOOS A W JR	41553 KRIDER J L	45828
45517 KELLEY R S	48352 KLOPPENBURG C A	48302 KRIDER J L	45829
46373 KELLEY W T	46069 KLOSTERMAN E W	45827 KRIDER J P	42030
42278 KELLEY W T	47925 KLOSTERMEYER E C	46349 KRIMBAS B	47115
42009 KELLOGG C E	43541 KLOTH	43875 KRIPPL J	44888
42021 KELLOGG C E	43687 KLOTH W J	43876 KRISHNA S	43506
43918 KELLOGG C E	45275 KLOTZ L J	41834 KRISHNA S	47548
45273 KELLOGG W D	47349 KLOXIM S E	48186 KRISTENSEN H R	41847
45274 KELLY J H	48006 KNAPP J G	49124 KRISTENSEN H R	41848
42322 KELLY W C	42024 KNAPP J G	49401 KRISTIANSEN A	44268
45366 KELSALL	42513 KNAPP R	41875 KRITZINGER C C	47790
44497 KEMLEY H P	41552 KNAPPENBERGER J F	44753 KRIVSHENKO A M	47775
43919 KENNARD C H	45232 KNECHT	49002 KNOLL R	45982
43824 KENNEDY A H	45632 KNEUKER A	43007 KROMAIK G	42518
44981 KENNEDY A H	44261 KNIELY A	48899 KROMBEIN K V	46376
45747 KENNEDY A H	45253 KNIELY G E	44293 KROMDIJK G	43009
46067 KENNEDY A H	45260 KNIGHT L	42515 KROMDIJK G	43010
42022 KENNEDY C	44887 KNIGHT S G	47409 KROMDIJK G	43011
45203 KENNEDY J S	46252 KNIPLING E F	45980 KROMDIJK G	43012
45976 KENNELLY A G	43781 KNISELY M H	45847 KROMPHARDT	48009
43613 KENT B F	44320 KNOOT C B	44961 KRON V	44794
43920 KENT G A	45687 KNOOT C B	44975 KROSNAR R P G	46291
47769 KENT JONES D B	46889 KNOLES G	43425 KROCVICK R P G	44229
45338 KENYON P	45712 KNOLES P F	42417 KROWCZYNSKI L	43493
46590 KEPHART L W	43422 KNOLES P F	42418 KRUER W C	46756
42023 KERN J	49400 KNOULTON G F	46274 KRUG H P	43013
47770 KERKAMP H C H	45854 KNOX R G	44589 KRUISHEER C J	47240
42459 KERKAMP M F	41711 KNOX R G	48792 KRUKOVSKY V N	47241
42994 KERR R G	48383 KOBENHAVNSKE GARTNERES	49215 KRUSMANN G	47757
47407 KERR W E	41913 KOBSTERCENTRAL	41591 KRYLOV A	42519
47020 KERSHAW F	47545 KOBUSKI C E	48464 KRYLOV G V	49437
43305 KERSTENS J	42667 KOCH	46209 KUBELKA V	44186
47252 KERTESZ Z I	42071 KOCH C	46210 KUBELKA V	44502
48623 KERTESZ Z I	47673 KOCH C	46425 KUBIN G	48378
45477 KERTESZ Z I	49318 KOCH M	47256 KUBIN G	45044
47770 KESPER	47866 KOCH P J	48625 KUBISCHTA F	45045
42510 KESSELRING H	42732 KOCK M	45247 KUDRIN S A	43014
44526 KESSLER L	44058 KOCK W	42124 KUDYA V N	43586
42511 KESSLER H	47772 KOCZWARA M	46913 KUHLMANN M	48932
42588 KESSLER H	49226 KODICEK E	47262 KUHN E	41559
42995 KESSLER S M	45204 KODITSCHKE L K	46350 KUHN L	45983
42996 KESTEVEN K V L	45039 KOEHLER W T	45981 KUHN V	42591
42997 KETCHUM V	44457 KOENIG H	49228 KUHNELT V	43614
44087 KEUL M R	42733 KOENIG M	48303 KUHNHOLTZ LORDAT G	41877
48462 KEYSERLINGCK F V	44117 KOENRAADT J	42125 KUIPERS S F	43662
41635 KHADUM S B E	49227 KOEPLI J B	45688 KUL VANOVSKII L B	46897
48733 KHADILKAR T R	42280 KOEPFEN E	48734 KULL K E	45262
43504 KHARCHENKO V A	42335 KOGAN P M	43542 KULP D A	44290
46204 KHITRINSKII V F	41939 KOHL E	42516 KULP D A	44396
41710 KHIZHNIK P A	41712 KOHL P A	47480 KUMAZAWA S	43311
42731 KHRUSTELEVSKII W P	46207 KOHLER G	45207 KUMAZAWA S	43312
43779 KHRUSTELEVSKII W P	43301 KOHLER H	45542 KUMBIEN L L	43013
44245 KIBLER H H	44997 KOHLER M	46163 KUMMER B	44834
42333 KIDNER A W	43307 KOHL S G	47332 KUMMEROW F A	45466
41873 KIELY T B	41792 KOHR L A	44383 KUMMEROW F A	48186
45470 KIENITZ E	44118 KOKKINIS J	47902 KUO M H	48518
45477 KIERMEIER F	42122 KOLACHOV P	47903 KUPERMAN F M	42031
45478 KIGIN L C	47522 KOLACHOV P	43426 KUPPERS G A	42520
45631 KIHARA H	41940 KOLE A P	44833 KUPTSOV A I	41878
48190 KIHLEN G	47480 KOLESNIK N M	4754 KURIR A	46427
45188 KIKUANS G	45010 KOLFOV S F E	43560 KUROKAMI T	47776
42279 KIKUCHI A	42668 KOLIASSEV G E	46754 KUROSAWA Y	46212
42213 KILLINGER G B	42297 KOLL F	47378 KUROV I I	44646
45037 KILPATRICK J B	45292 KOLLER E F	44590 KURSTEINER J	49003
42154 KIMBROUGH E F	44265 KOLLER R	44591 KURTZE H	45545
43559 KIME J A	46495 KOLLER R	44592 KURYSHEV I L	42592
46130 KIMMINS D E	46496 KOLLER R	48019 KURZ G	45772
44958 KIMURA M R	42628 KOLLER R	48042 KUSHMAN L J	47777
43306 KINCAID R R	42460 KONDE W N	44755 KUSTER E	49354
42512 KING D	46753 KONDRAT EV M	46726 KUTIL C L	49004
46068 KING D L	46639 KONEWMANN E	47773 KUTISH F A	48933
48191 KING F C	43636 KONING H	48270 KUTTNER J	46428
42666 KING G H	45979 KONOVALOV V	47410 KUZ MIN A I A	42735
45166 KING G S	42025 KONSTANTINOV N M	43785 KVACHEV P	42155
45378 KING H	46160 KONSTANTINOV N M	43877	
42998 KING N	47236 KOON R	43008 LAAKE E W	46246
46460 KING N	47237 KOONZ C H	48193 LAARMAN N A	49229
48516 KING R E	42514 KOOS I W	48007 LABAISCH W	43786
42999 KING S	45040 KOOVER C J	46071 LABAT C	41793
47112 KINN T P	44374 KOPETZ L M	42517 LABATU R	45046
48624 KINSEY C	43989 KOPETZ L M	41942 LABORATOIRE DES BIOCHIM ET	
43311 KIPP J E	43002 KOPETZ L M	42026 PHYSICOCHIM DES CEREALES	
43312 KIRBY H	46497 KOPYTOV F	42126	
42334 KIRBY R E	44374 KORITSKAIA T D	47239	
47864 KIRCHEN W H	46555 KOKLUKAEV S I	43602 LABUSCHAGNE F J	45795
45977 KIRCHMEYER F	43782 KONNAS J	42027 LA CAVA G	49315
45977 KIRCHMEYER F	43783 KONNFELD L	41876 LACEY J J	45773
47864 KIRILOVA E N	47114 KONNILOV V	45585 LACHAVANNE	42194
47864 KIRICHENKO F G	41941 KOROLEFF A	44756 LACHMANN	45047
47113 KIRILLLOV F F	42734 KOROPOV V M	44266 LACOMBE R	46708
41937 KIRKPATRICK R C	44237 KORPRICH M	44757 LACROIX J V	45199
43505 KIRKSEY G	45041 KORPLEVEN J	46817 LACY MRS S	43016
41814 KIRSCHENIKOV M F	41507 KOSKINEN Y K I A S	44088 LAER M H VAN	47868
45902 KIRSCHFELD P	44547 KOSMACHEVSKII A S	42336 LA FACE L	46275
46205 KIRSHER W	45390 KOSSENAKIS C	45903 LAFON J	41794
43988 KISHEN K	49476 KOSSEWAG	44474 LAFONTAINE A	45348
48129 KISLIUK M M	41964 KOSTINA K F	46755 LAFUENTE F	43313
42643 KISLIUK M M	42108 KOSTNER M	42669 LAGARDE J	42419
47544 KISSER J	41874 KOT V	45042 LAGOS U J A	42215
48898 KITCHEN C W	47690 KOTT C A	42155 LAGOS U J A	43507
41938 KITSSELMAN C H	45340 KOTT S A	42028 LAHAYE	44593
43780 KIVENKO S F	47408 KOZHANCHIKOV I V	43427 LAIPPLE E	48735
46206 KJOS E	48463 KOZHANCHIKOV I V	46426 LAIZET G	45860
45978 KJULSTEN A	47238 KRABBE M	46476 LAKSHMIKANTHAM M	42032
48082 KLABER D	43003 KRAEMER G D	48271 LAKSHMIKANTHAM M	42443
41845 KLABER D	43004 KRAFT M E	46211 LAKSHMIKANTHAM M	43787
44959 KLAGES K H	43408 KRAMER B	45083 LAL G	47294
45038 KLAGES K H	43451 KRAMER H A	49277 LALLEMAND	44143
48999 KLANTE C	43308 KRAMER M	47867 LALLOY M	46798
47401 KLANTE C	43309 KRAMER R C	42029 LAMASTER J P	45048
45424 KLECZKOWSKI A	41846 KRANEVELD F C	47021 LAMB G N	44165
		45543 LAMB G W	49106



AMBERK K	48627	LE GOFF H	43509	LISCHKIN F I	43308	LWOFF A	42042
AMBERT E	47770	LEGROUX H	46952	LISOVA A V	43301	LYERLY P J	44981
AMBERT H	43017	LEH J H	46824	LISOVA A V	43321	LYLE A	44489
AMBERT J	42149	LEHMAN G E	45984	LISOT G	45549	LYNCH W E	44043
AMBERT J	42420	LEHMAN A J	45985	LISTER S	44309	LYNCH W E	45863
AMBERT J	47022	LEIBFRIED E	48021	LITARDIE R DE	41554	LYON A V	42738
AMBERT J	43018	LEIBUNDGUT H	44119	LITCHELUP P W	48249	LYONS J	47185
AMBERG A	48519	LEIDL E	46709	LITTLE H W	48804	LYSTER M	45693
AMBERG A	43778	LEIDL E	46710	LITVINOV M A	41650		
AMBERG A	44324	LEIDL E	46856	LITVINSKI M T	43588		
AMBERG A	49064	LEISS H	47295	LITZENBERGER S C	41796		
AMBERG A	43615	LEITE H	48825	LIU C Y	48633		
AMBERG A	43990	LEIZ	42281	LIVERMORE J R	43365		
AMBERG A	48520	LEIZ	42422	LJUNG E W	41944		
AMBERG A	43019	LEJAND A	47552	LJUNG F W	42218		
AMBERG A	45049	LEJANDER P	44120	LJUNG G	45120		
AMBERG A	45086	LEJISHKO P W	45861	LLAMAZAS G P	45361		
AMBERG A	42337	LEMMENS	44893	LLERAS RESTREPO C	47962		
AMBERG A		LEMMON R S	43025	LLOBREGAT BALAGUER E			
AMBERG A		LEMMON R S	43026				
AMBERG A		LEMMON R S	43027				
AMBERG A		LEMMON R S	43028				
AMBERG A		LEMMON R S	43029				
AMBERG A		LEMMON R S	43030				
AMBERG A		LEMMON R S	43031				
AMBERG A		LEMMON R S	43032				
AMBERG A		LEMMON R S	43033				
AMBERG A		LEMMON R S	43034				
AMBERG A		LEMMON R S	43035				
AMBERG A		LEMMON R S	43036				
AMBERG A		LEMMON R S	43037				
AMBERG A		LEMMON R S	43038				
AMBERG A		LEMMON R S	43039				
AMBERG A		LEMMON R S	43040				
AMBERG A		LEMMON R S	43041				
AMBERG A		LEMMON R S	43042				
AMBERG A		LEMMON R S	43043				
AMBERG A		LEMMON R S	43044				
AMBERG A		LEMMON R S	43045				
AMBERG A		LEMMON R S	43046				
AMBERG A		LEMMON R S	43047				
AMBERG A		LEMMON R S	43048				
AMBERG A		LEMMON R S	43049				
AMBERG A		LEMMON R S	43050				
AMBERG A		LEMMON R S	43051				
AMBERG A		LEMMON R S	43052				
AMBERG A		LEMMON R S	43053				
AMBERG A		LEMMON R S	43054				
AMBERG A		LEMMON R S	43055				
AMBERG A		LEMMON R S	43056				
AMBERG A		LEMMON R S	43057				
AMBERG A		LEMMON R S	43058				
AMBERG A		LEMMON R S	43059				
AMBERG A		LEMMON R S	43060				
AMBERG A		LEMMON R S	43061				
AMBERG A		LEMMON R S	43062				
AMBERG A		LEMMON R S	43063				
AMBERG A		LEMMON R S	43064				
AMBERG A		LEMMON R S	43065				
AMBERG A		LEMMON R S	43066				
AMBERG A		LEMMON R S	43067				
AMBERG A		LEMMON R S	43068				
AMBERG A		LEMMON R S	43069				
AMBERG A		LEMMON R S	43070				
AMBERG A		LEMMON R S	43071				
AMBERG A		LEMMON R S	43072				
AMBERG A		LEMMON R S	43073				
AMBERG A							



MACRANE W B	45212	MARTIN W W	45429	MENON H B	46897	MIL SKILL A V	42741	46897
MAGRUDER R S	44490	MARTIN D AIGUEPERSE J	45429	MENRAD	45168	MILTON R H	45168	42534
MAHABALE T S	49404	48252		MENRAD	45236	MILTON R H	45236	45992
MAHAFFAY H E	44344	MARTIN RETORTILLO M	48131	MENSIO C	47124	MILWARD R C	47124	44187
MAHER J	43182	MARTINDALE J G	47558	MENZEL R	49235	MINCIOOTTI F	49235	45057
MAHNER A	44648	MARTINEZ CABRE G D	43666	MERCHANT C H	47063	MINKLER L S	47063	44188
MAHONEY C H	43798	MARTINI	44650	MERICIER E E	44902	MINKOV W	44902	48741
MAHOU R	46161	MARTINI B	44764	MERICIER E E	44903	MINNEMAN P G	44903	49237
MAHR J A	47873	MAHUYAMA K	46378	MERICIER G	45052	MINN DEPT OF AGR DAIRY		
MAIER E A	46559	MAKVEL E J	43054	MEREDITH C C	47125	AND FOOD	44061	
MAINS E B	41945	MD SOIL CONSERV COM	43993	MEREDITH PUB CO	48706	MINN U HORMEL INST		49464
MAIOCCO F	45263	MAKZANI A	48867	MERENDI A G	44123	MINNIS R		49136
MAIOCCO F	45276	MASE DARI E	48868	MERLINI G	48636	MINNIS R		49136
MAIOCCO F	45277	MASHTALER G A	45430	MERRICK R L D P	46712	MINSTER C H		47415
MAIOLI A	47874	MASON F E	48203	MERRILL L P M	44207	MINTHORN C M		47416
MAISONNEUVE J	48381	MASON F	47742	MERRILL R G	46631	MINUT J		47417
MAITLAND W G	46280	MASOTTI N	45123	MERRITT G	45237	MIR R M		42743
MAITS B	42343	MASS AGR PROGRAM BD		MERTENS R	45904	MIRA E		49137
MAKAREVICH A	49009	MKTG CONF		MERZ J J	47126	MIRA E HIJO		46081
MALAYA DEPT OF STATIS		DAIRY SUB COM	47298	MESCHINI C	45797	MIRIVILIS S		44147
48251		MASS DEPT OF AGR	47649	MESCHINI C	45798	MIRONENKO A		47418
MALETTO F	44595	MASS INST OF TECH		MESCHINI S	45053	MIRRI F		48025
MALI L	42344	DEPT OF FOOD TECH	46914	MESCHINI S	45054	MIRSKY A E		46465
MALLAMAIRE A	46013	MASS SEED CONTROL SERV		MESCHINI S	45090	MISSIROLI A		46319
MALLINJOUD E	43638	48274		MESICK D O	46589	MISS DEPT OF AGR		44062
MALLINJOUD E	43799	MASSENOT M	41646	MESIRCA B	48871	MO STATE DEPT OF AGR		
MALLO M D	45880	MASSENOT M	41787	MESQUITA D DE	49134			
MALMEJAC J	49274	MASSEY Z A	47964	MESSAGER R	48872	MISTRIC W J JR		45636
MALOGLOWKIN C	46281	MASSIDDA A	44765	MESSER P J	48805	MISTRY S P		46920
MALONE C C	46980	MAST W C	48253	METZGER H J	45055	MITCHELL A E		41723
MALOWAN L S	42345	MASTERS R E	47559	METZNER R	42673	MITCHELL A E		46160
MALSBERGER H J	44121	MATALLANA VENTURA S	47413	MEXICO DIR GEN DE ENSE		MITCHELL H L		42188
MALTERKE J	45210	MATAMOHOS Y PAVIA E	0	NANZA AGR	45882	MITCHELL H L		45227
MALYKH A	44345	44396		MEYENBURG K V	46617	MITCHELL H L		48528
MAN T J DE	44649	MATCHETTE J A	43617	MEYER H	46713	MITCHELL T		47782
MANBECK C F	48201	MATES E	46560	MEYER H	46714	MITRA M B		49368
MANCHESTER H	45986	MATET J	44651	MEYER H	46715	MITRA G C		45144
MANDE B A	46920	MATHE R E J	47299	MEYER H A	44223	MITSCHERLICH E A		43809
MANFRED O	47557	MATHE R E J	44964	MEYER K M	46915	MITTEN H L JH		41789
MANGELSDORF P C	41513	MATHIEU R	43512	MEYER L	43805	MITTMANN G		41716
48251	46953	MATHIS M	46079	MEYER U	45345	MODENA A		42350
48251	49131	MATHIS M	46080	MEYER BAHLBURG W	42347	MODENA B		49012
MANGRUM M F R	45234	MATHIS M	46082	MEYERS J W	44274	MOEGLING		46163
MANHART V C	47334	MATHIS M	46132	MEYN A	47336	MOEGLING		47783
MANI V S	41968	MATHO K	43324	MEZERIK A G	43994	MOES A		41946
MANIER J F	46216	MATHON C	41555	MIALLET A	43808	MOFFETT A G		48208
MANITOBA DEPT OF AGR AND		MATHON C J	41880	MICALKA J	44767	MOFFETT B W		48057



MONA DAVILA M	45058	MURCH T E	45170	NEJGEBAUER V	43934	NOILHAN H	48748
MONAES O A DE	48919	MURDOCK H	43071	NEKEPELOVA I	42132	NOIROT C	46938
MONALES AGACINO E	46462	MURDOCK H	43072	NEL E A	43299	NOIROT C	46938
MONALES HERREIRA A	45346	MURPHY C R	49276	NELIS P	45348	NORDALM W W	46492
MONALES M E	49357	MURPHY G E B	41517	NELSON C	41729	NOKDFELDT S	45833
MOHAN A B	44710	MURPHY H C	42231	NELSON H G	43076	NOKDFELDT S	45834
MOHAN R	41947	MURPHY H C	48798	NELSON L	48925	NOKUGAARD K	43333
MOHAWITZ J JR	45645	MURPHY CHEM CO	45996	NELSON M	49440	NOKUQUIST A V	48058
MOHEAUX R	46082	MURRAY D E	44169	NELSON P	47029	NORGAARD U J	42160
MOHEL R	42046	MURRAY W G	43998	NELSON R H	46032	NORGES EXPORTAD	44350
MOHETTI L R	45994	MURRAY W G	48432	NELSON W L	42282	NORGES LANDBRUKSOKNO	
MORETTINI A	42599	MUSANTE C	45997	NELSON W R	43935	MISKE INST	48749
MORETTINI A	42675	MUSE	49418	NEPVEU P	46354	NORMAND D	44401
MORGAN	44770	MUSGRAVE C W	48901	NESBITT L L	48204	NORMAND H	46222
MORGAN E N	42129	MUSGRAVE M M	43441	NESTERENKO V T	48529	NORMAND J	44472
MORGAN J T	44442	MUSIKO A S	42240	NESTLE K T	47147	NORMAND J	44551
MORGAN R L	43066	MUSKER H B	43442	NETHERLANDS CENT COMM VAN	47147	NORMAND M D	44351
MORGAN W L	46434	MUSKER K	44190	TOEZICHT OP DE UITVOER		NORRIS L C	45465
MORI C DE	47420	MUSSILL J	44772	ING VAN DE KUNSTMATIGE		NORRIS M J	42233
MORI S	43930	MUSSILL J	44773	IMSEMINATIE IN NEDERLAND		NORSTROM E G	45835
MORILLO A J	42047	MUSSILL J	45864	44599		NORTH A D	48800
MORISHIMA S	48448	MUSTARD H S	47300	NETHERLANDS MIN VAN LANDB		NORTH M O	
MORISON D L	43943	MUTH O H	45060	VISS EN VOEDSELVOORZIEN		N DAK DEPT OF AGR AND	
MORISON D L	46083	MUYLDER E DE	45713	ING		LABOR	47066
MORTA Y	46084	MY P	43327	DIR VAN DE LANDB	42352	NORTHERN IRELAND MIN OF	
MORTA Y	43302	MYERS J	41986	NETO P M	46133	AGR	43334
MORTA Y	43562	MYERS MRS K L	47131	NETSCH W A	47969	NORTHERN IRELAND MIN OF	
MORLAND R T	47421	MYERS W I	47068	NETTLES W C	47130	AGR	44966
MORLE F J	43997	MYERS W I	49138	NETTLES W C	45999	NORTHERN IRELAND MIN OF	
MORNET P	45127	MYERS W I	49146	NETTLES W C	46039	AGR	45649
MOROCCO SERV DE LA RECH	46161	MYODO H	43047	NEUBERT A	47785	NORTHERN IRELAND MIN OF	
AGK ET UE L EXPT AGR		MYODO M	42043	NEUKOMM	48911	AGR	48643
42229		MYKICK G A	48526	NEUMAN A	45362	NORTHROP KING AND CO	
MONOFISKY W F	41728	MYKICK N	47301	NEUMAN F	42746		
MONOY J	47128	MYKICK N	47361	NEUMANN F	42538	NORTON C	43081
MONOY J	47129	MYKICK N	47693	NEUMANN F	46088	NORTON C	43082
MONOZOY I S	43326	MYKING B	44125	NEUMANN F	45214	NORTON L J	48644
MONPURGO E	44346	NADEAU P	47302	NEUMEISTER	48746	NORTON M A	45239
MONRILL C C	44996	NADEAU K D	47362	NEUZIL E	47255	NORWAY LANDBRUKSDEPT	
MONRIS MRS E M	44089	NAEGELY F	44656	NEVES CASTRO A V DAS			
MONRIS F C	48874	NAETHER C	45647	45061 A	44657	NORWAY LANDBRUKSDEPT	
MONRIS H D	42048	NAGASAWA S	46380	NEVILL H A D	49467		
MONRIS J J	42351	NAGASAWA S	45998	NEVOT A	47991	NORWAY LANDBRUKSDEPT	
MONRIS S T	48797	NAGEL A	44598	N H FORESTRY AND RECREA			
MONRIS V M	42230	NAGEL J L	44275	TION COMM	44349	NORWAY LANDBRUKSDEPT	
MONRIS W E	45801	NAGGAR F	48642	NEW MEX FEED AND FERT COM			
MONRIS W T	46085	NAGHSKI J	47878	TROL OFF	44063		
MORRISON B Y	43067	NAGORE D	45735	NEW ORLEANS COTTON EXCH		NORWAY STATENS FORSKS	
MORRISON F B	45831	NAIDU K M	47303	47567		GARD PA VOLL	49468
MORRISON R I	41501	NAIM KENT H	42130	NEW ORLEANS COTTON EXCH		NORWAY STATENS LANDBRUKS	
MORRISON R W	46891	NAJERA Y ANGULO F	44347	47568		KJEM KONTROLLSTA OG	
MORRISON S R	47967	NAKAMA M	46022	NEW SO WALES COOP SOC		FROKONTROLL	48277
MORTENSON F N	43813	NAKKAE T	46221	49142		NORWAY STATIS SENTRALBYRA	
MORTL E	46736	NALDI G	48124	NEW SO WALES COUNCIL FOR			
MORTON A C	47565	NALDI L	41806	SCI RES		NORWAY VETERINAERDIREK	
MORTON R J	43068	NANAKATA B	43933	NEW SO WALES DEPT OF AGR		TOREN	44776
MOS D E	42676	NANAYAKKARA K D S S	43481	ENT BR	46355	NOSTI J	43516
MOSCOW TIMIRIAZEVSKAIA		NANCE J P	42050	IRRIG RES STA	43936	NOSTI J	44276
SELLSKOKHOZ AKAD	49466	NARA S	42131	N Y CITY FOOD AND NUTR		NOTH H	46760
POLEVAIA OPYT STANTS		NARASIMHAN V S	47306	COM	49278	NOTH H	46761
42158		NARDIN ERGUETA J	46087	N Y STATE COL OF AGR		NOTH H	46762
MOSCOW VSESOIUZH NAUCH		NARIAN R D	49478	NEW ZEAL CENSUS AND STA		NOTHACKSBERGER F	43080
ISSLED INST KAUCHUKONO		NARIAN R D	49479	TIS DEPT	48920	NOVICK A	41909
SOV	43515	NARKHEDE D S	46563	NEW ZEAL DAIRY PROD MKTG		NOVICK D	49359
MOSEN E H	48357	NARKOTSKY S	45557	COMN	47304	NOVICKOFF P A	46464
MOSEN L	47130	NARVAEZ J UE	45296	NEW ZEAL TOBACCO BD	48358	NOVIKOV G	46089
MOSIMANN E	45432	NASH D W	44836	NEWBEGIN C F	45380	NOVOA S	44473
MOSIMANN E	45433	NASH G	47027	NEWELL G W	45470	NOVOGRUDSKII D M	43618
MOSIMANN E	45434	NASOETION A	45543	NEWELL I M	46162	NOVOPOL SKAIA E V	46435
MOSKEY H E	44771	NASTINI T F R	45347	NEWLANDER J A	47337	NOWAKOWSKA J	46727
MOSNA E	46320	NATAKARAN B	46979	NEWLON W E	48227	NOWINSKI W W	45558
MOSNIER M	42677	NATELSON S	49277	NEWMAN I	43077	NOYES H A	47786
MOSOLOV I V	42049	NATHANAEL W H N	43260	NEWMAN L H	46463	NOYON F	44224
MOTE D C	45995	NATIONAL ALLOT AND GARD		NEWMAN T C	46759	NOZDRUNOVA E	43815
MOTORINA M	42745	SOC	48537	NEWTON A C	45326	NUBOURGH Y	42541
MOTT L O	45869	NATIONAL ASSOC OF MUTUAL		NEWTON J D	43654	NUBOURGH Y	43083
MOTTLEY J J	46954	INS CO		NEY M	47135	NUILA LOPEZ L	48125
MOTWANI T C	48946	GEN FARM CONF	48467	NEYMES E C	43078	NUINEZ A	43999
MOTZ F A	47650	NATIONAL CANNERS ASSOC		NEYMES E C	44090	NUINEZ MESA D	44837
MOTZ F A	49238	4702R		NIAGARA CO AGR CONSERV		NUIN A	41135
MOUCHOT J C	47422	NATIONAL COM ON BOYS AND		ASSOC	48747	NUIN A	48801
MOULE G R	47968	GIRLS CLUB WORK	49140	NICARAGUA DIR GEN DE		NUTTING A D	44191
MOURA V	48394	NATIONAL COM VOOR BROUWG		ESTADIS	47065	NUTTING G C	42105
MOURIDSEN C	48744	ERST	47879	NICOLAS J L	43329	NYASAL AND FORESTRY DEPT	
MOUSTGAARD J	45059	NATIONAL COOP MILK PROD		NICHOLS H E	45238		
MOXNESS J B	45646	FED	47191	NICHOLS J F	42499	NYBROTEN N	48912
MOYAN A L	42104	NATIONAL COUNCIL OF FAR		NICHOLS M	45648	NYGARD I J	43673
MOYA M A DE	48640	WER COOP	49141	NICHOLSON T F	49120	NYGREN C A	48337
MOYER J C	42071	NATIONAL COUNCIL OF		NICHTER A M	45215	NYHLIN A	43335
MOYER J C	49318	SOCIAL SERV	48935	NICKEL B	43278		
MRACK E M	42059	NATIONAL DAIRY COUNCIL		NICO L	43330	OAKLEY J W	42283
MUCKENHIRN R J	43669	49319		NICOLAI P	48255	OBATON F	42052
MUDALIAR A P	48431	NATIONAL FARM LABOR UNION		NIEDERFRANK E J	42600	OBEL A L	45781
MUDALIAR V M A	46478	48527		NIEDERFRANK E J	49068	OBENAU S	46523
MUDDIMAN G W	46955	NATIONAL FARM LABOR UNION		NIEDERMEIER R P	48939	OBERGOTTSSBERGER F	48947
MUELLER L A	44443	48528		NIEFERBOCK E W	44658	OBERHELMAN L	49279
MUEERS W VAN	49236	NATIONAL HARDWOOD LUMBER		NIEHAUS C J G	46600	OBRE F	47423
MUESEBECK C F W	49405	ASSOC	44348	NIELEBUCK E	47136	OBRECHT C B	46323
MUFF G	45432	NATIONAL JOINT COM ON		NIELSEN H	47970	O BRIEN H R	46567
MUHELTALER K	41901	FERT APPL	43814	NIELSEN H	44774	O BRIEN J V	48211
MUIR MRS A	43069	NATIONAL MKT REPORTS		NIELSEN H	46002	O CONNOR A J	44364
MUIR J	44965	46564		NIELSEN H	45489	O CONNOR R J	45559
MUKSCH L	43931	NATIONAL SAFETY COUNCIL		NIEMANN P J	45128	ODEGAARD N	44444
MUKSCH L	48641	FARM DIV	46522	NIESER O	42159	ODELL D	49360
MULDER E G	43591	NATIONAL TOBACCO TAX AS		NIGERIA DEPT OF AGR	49358	ODELL J G	48212
MULLEN J E C	45031	SOC	48488	NIGERIA VET DEPT	44775	ODENING	46223
MULLENDER P	48123	NATIONALE COOP RAAD	49139	NIKIFOROFF C C	43670	ODIER C	45518
MULLER A	44189	NATTHASS R M	41807	NIKIFOROVA L	42745	ODIER C	45519
MULLER A	46086	NATU W R	49480	NIKITINA A I	43671	ODLAND T E	49436
MULLER F M	44655	NATVIG L R	46322	NIKOLA O E	47250	ODLM G	44904
MULLER F P	41726	NAUCK A K	46565	NIKOLOFF M	45216	O DONNELL A C	47651
MULLER H	46220	NAUCK A K	46566	NILSEN A	46134	O DONNELL P E	47274
MULLIFR K O	41804	NAUMBURG B	43074	NILSEN A	47421	ODRAHAG	45490
MULLIGAN B O	41515	NAUMBERG R E	43074	NILSSON EHLE H	42232	OGAWARA K	47787
MULLIGAN B O	41727	NAVARETE R M A	43328	NILSSON F	43331	OGDON M	46568
MULLINS L	48254	NAVAS ROMANO E	47132	NILSSON LEISSNER G	41949	OGG W E	46980
MULVANY J L	47190	NEAL J D	47694	NINO F L	45217	OGLAND N J	44402
MUMA M H	46201	NEAL O R	48906	NISHIUCHI H	43563	OGLOBLIN A	46379
MUMFORD C W	45494	NEARING G G	43075	NISSLEY C H	43332	OHL R	47137
MUMMERT C	45435	NEBR FARMERS COOP ASSOC		NISWONGER H R	42747	OHNO M	45959
MUNCHBERG F	47249	47880		NIXON W M	42353	OHSAWA W	46380
MUNCIE J H	41728	NEDERLAND ALG KEURINGS		NIXON W M	42354	OIWA T	46224
MUNCIE J H	41805	DIENTST VOOR LANDROUWZO		NIXON W M	46632	OKA INST AGR	48750
MUNDE H	46808	DEN EN AARDOPPELPOOTGOED		NIZI G	46501	OKLA STATE DEPT OF AGR	
MUNGAVIN J M	46321			NOBILI E	48382		
MUNOZ TABOADELA M	43567	NEEL L G	48276	NOBLE B I	46865	OKRETIC B	44516
MUNOZ ZUNIGA F	43932	NEFF J D	48745	NOBLE D B	49015	OLAFSON G	47695
MUNRO J	43070	NEGRE E	42678	NOBLE D B	48796	OLASCOAGA J Q	49280
MUNTZING A	41948	NEGRE E	47133	NOBLAND T R	46915	OLDHAM C H	42748
MUNZ P A	41516	NEHRING K	47134	NOELTING G	42051	OLSEN J	43674
MURAWASU H	42631	NEISWANDER H B	46250	NOGGINA A	43672	OLSEN J	44038



OLIVE J P DELL 47138  
OLIVE J P 44659  
OLIVE J P 44967  
OLIVENCIA P 49143  
OLIVENCIA P 49144  
OLIVER J G 47569  
OLIVER W R B 41557  
OLLEA D E 42284  
OLLEA D E 48646  
OLLEA D E 43816  
OLSEN M 43564  
OLSEN M W 45560  
OLSON L V 44660  
OLSON P J 43468  
OLSSFN SEFFER R 43817  
OLSSON B 44601  
OLSSON G 42401  
OLSSON H 45892  
OLSSON N 47480  
OLSSON T 47424  
OMAHA GRAIN EXCH 47881  
ONO M 42631  
ONTARIO VET COL 44777  
OSTERHOR A T 47193  
ORALES P T 45883  
ORCHARD H E 43443  
ORCHARD H E 43444  
ORCUTT E P 44661  
ORDANIX G S 41523  
OREG WHEAT COMN 46090  
O R FILLY M V 47882  
ORGANISATION FOR EUP 47030  
ECON COOP 48395  
ORLA JENSEN S 44662  
ORLANDO G 48647  
ORLOVSKII N I 41518  
ORLOVSKII N V 43627  
ORMAN A C 43336  
ORR D E 46956  
ORR G M 45297  
ORRE A 45129  
ORSI S 48648  
ORTEGA J A 48530  
ORTHOF R 45690  
ORTIZ G L B 49145  
ORTIZ GARMENDIA J 43517  
ORTON F C 47788  
ORTON E C 47789  
ORVEDAL A C 43675  
OSA P 41731  
OSBERG E V 48245  
OSBORNE M F 47801  
OSGOOD O T 48751  
OSMUN A H 43084  
OSTBO E 43085  
OSTEEN O L 45567  
OSTERGAARD P S V 44891  
OSTERHOUT W J V 42053  
OSTERHOUT W J V 42054  
OSTERWALD G 48011  
OTAMENDI J C 46381  
OTHMER D F 48312  
OTLIVANCHIK A N 44517  
OTT G L 45264  
OTT G L 47973  
OTTO W 45691  
OTTOSSON L 42175  
OUELLETTE G J 44000  
OURLIA C P 48875  
OVERBY A J 47429  
OVERGAARD C E L 43619  
OVERHOLSEK E L 43818  
OVERLEY F L 43855  
OVERSETH O E 44044  
OWEN N 47883  
OWEN R W 45777  
OWEN R W 46324  
OWEN W L 48313  
OWENS C E 45995  
OWENS M 43086  
OXFORD A E 48314  
OXFORD U IMPERIAL FOR 44552  
TRY INST 44552  
OZEROV A V 44778  
PAAUW F VAN DER 43819  
PACHECO G 45062  
PACHECO ACUNA C 47139  
PACHECO ACUNA D 47139  
PACKARD C E 43087  
PACKARD C M 46382  
PACLT J 41601  
PACYNISKI J 45298  
PACYNISKI J 43750  
PAGAN W R 42133  
PAGAN C 45976  
PAGAN C 46893  
PAGE B R 42531  
PAGE B R 49419  
PAGE H W 43088  
PAGE H W 43089  
PAGE K W 45776  
PAI P A 44626  
PAINE K T 43090  
PAITITSKII G K 46427  
PAJELLA A 48126  
PALACIOS A 43606  
PALAY S L 46283  
PALIERI G 47140  
PALLISTER J C 46225  
PALLUM M R 47790  
PALMAROCCHI V 43820  
PALMER D F 46284  
PALMER E F 43091  
PALMER E L 41519  
PALMER E L 44403  
PALMER M B 47652  
PALMER R G 43821  
PALVA O 45130  
PANERAI A 48531  
PANISSET M 44780  
PANSE V G 41950  
PANSE V G 47067  
PANSE V G 49481  
PANTANELLI E 48127  
PAOLIERI L 43337  
PARANSE W L 45561  
PARAHIM O 43478  
PARAMORE W H 48359  
PAKEDUS J C 45650  
PARENCEA C R JR 47138  
PARENCEA C R JR 44659  
PARHET E 44967  
PARISH J L 49143  
PARISI O 49144  
PARISOT C 47569  
PARK O 41557  
PARKER D E 42284  
PARKER F W 48646  
PARKER F W 43816  
PARKER H C 43564  
PARKER J C 45560  
PARKINSON F M 44660  
PARKS C D 43468  
PARMENTER L D 43817  
PARNELL E V 44601  
PARRINI V 42401  
PARRISH D B 45892  
PARRISH D B 47480  
PARROT A G 47424  
PARROT G 47881  
PARRY G 42631  
PARRY H B 44777  
PARSONS A C 47193  
PARSONS E D 45883  
PARTHASARATHY S V 43443  
PARVIN D W 43444  
PARWELL C A 44661  
PASQUAL TALAVERA M 41523  
PASQUALE D R 46090  
PASS H 47882  
PASTENA B 47030  
PASTOR PASCUAL A 47882  
PATAY R 47030  
PATERSON G R 44662  
PATERSON J A 48647  
PATERSON H L 41518  
PATRICK R L 43627  
PATRICK H L L A 43336  
PATRICKSKY L A 46956  
PATTERSON P V C 45297  
PATTERSON V C 45129  
PATTERSON C W 48648  
PATTON A R 48530  
PATTON S 45690  
PAUL B H 49145  
PAUL H 43517  
PAUL P 47788  
PAUL S DE 47789  
PAUL S DE 43675  
PAULA R D DE G 41731  
PAVARI A 48245  
PAVARI A 47801  
PAVLOVA M A 48751  
PAVLOVSKY G 43084  
PAVLYCHENKO T K 43085  
PAYORD A V 45567  
PAYNE L F 44891  
PEACOCK I M 42053  
PEACOCK I M 42054  
PEAR CROWERS LEAGUE 48011  
PEARCE J A 46381  
PEARCE R D 48312  
PEARCE S A 44517  
PEARCE S A 45264  
PEARCE C K 47973  
PEARSON F A 45691  
PEARSON H E 42175  
PEARSON H E 44000  
PEARSON H E 48875  
PEATT E S 47429  
PECHANEK J F 43619  
PECHER E 43818  
PECHNIK E 43855  
PECHNIK E 44044  
PECHNIK E 47883  
PECHNIK E 45777  
PECHNIK E 46324  
PECHNIK E 48313  
PECHNIK E 45995  
PECHNIK E 43086  
PECHNIK E 48314  
PECK D R 44552  
PEDERSEN N J 44778  
PEDERSEN C S 43819  
PEDRETTI L L 45062  
PEDRETTI L L 47139  
PEDRETTI L L 47139  
PEERONI C 43087  
PEECH M 43087  
PEERY C M 46382  
PEFML K 41601  
PEIKERT F W 45298  
PEIKERT F W 43750  
PEIKERT F W 42133  
PEIRSON H M 45976  
PEKLO J 46893  
PELIKAN L 42531  
PELISHENKO F 49419  
PELLETIER J H 43088  
PELLETIER J H 43089  
PELLETIER J H 45776  
PELLIZZAKI C 44626  
PEMBERTON E J 43090  
PEN HO F 46427  
PENICE K J 48126  
PENICE M O 43606  
PENFOLD A R 46283  
PENNINGKAMP O 47140  
PENNING H J 46225  
PENNINGTON M E 47790  
PEPF M 43820  
PEPPER J H 46284  
PERCY J F 43091  
PEREDEL SKII A A 41519  
PEREPECHKO V 44403  
PERES G 47652  
PEREZ C 43821  
PEREZ G S 45130  
PEREZ COURIE S 48531  
PEREZ MATEOS J 44780  
PEREZ Y PEREZ F 41950  
PEREZ Y PEREZ F 47067  
PEREZ Y PEREZ F 49481  
PEREZ Y PEREZ F 48127  
PEREZ Y PEREZ F 43337  
PERFECT E H 45561  
PERFECT E H 43478  
PERMOGOROV I A 48359  
PERKNU E A 45650  
PEKNU L O 45939  
PEKNU R 45940  
PEKOTI G 48044  
PEKOV S S 49066  
PEKVA P 45816  
PEKREGAUX E A 44608  
PEKRET J 46226  
PEKREIN E E 49405  
PEKREIN E E 43592  
PEKRON J 43822  
PEKRON J 43092  
PEKRON J 43093  
PEKRON M M 48752  
PEKRON M M 45599  
PEKROPOT F 46503  
PERRY A 45651  
PERRY A 45997  
PERRY K M A 45063  
PERRY L M 47251  
PERRY R 42055  
PERRY T D 41910  
PERSECHINI O L 47570  
PERSIA G 45198  
PERSIN S A 46091  
PERTICARA G 48753  
PERTICARA G 42446  
PERTICARA G 49881  
PERTICARA G 49441  
PERUCHON J 43585  
PERUCHON DE BROCHARD J 41808  
PERUR N G 42180  
PESCE A 42749  
PESCE A 47974  
PESCE F A 45562  
PESCE G 49431  
PESCE P A 45131  
PESCE P A 46809  
PESCE P A 46717  
PESCE P A 46718  
PESCE P A 44569  
PESCE P A 44905  
PESCE P A 47426  
PESMAN M W 48902  
PESMAN M W 45491  
PESTEMER M 47252  
PESTEMER M 43094  
PETEK M 43593  
PETTERBURGSKII A V 47427  
PETERS C A 47481  
PETERS H F 47884  
PETERS L 49320  
PETERSEN E E L O 44126  
PETERSEN E E L O 44193  
PETERSEN J C D D 42750  
PETERSEN J C D D 48649  
PETERSEN J C D D 42056  
PETERSEN J C D D 46136  
PETERSON L C M W H R 45466  
PETERSON M R W H R 46669  
PETERSON M R W H R 47653  
PETERSON M R W H R 48213  
PETRAK F 43095  
PETRAK F 43096  
PETRAK F 43097  
PETRAK F 42385  
PETRAK F 47068  
PETRAK F 43098  
PETRAK F 43099  
PETRAK F 49017  
PETRAK F 45349  
PETRAK F 42359  
PETRAK F 42542  
PETRAK F 43478  
PETRAK F 44428  
PETRAK F 46909  
PETRAK F 46916  
PETRAK F 47666  
PETROSINI G 47743  
PETROSINI G 48076  
PETROSINI G 48128  
PETROV B S 48315  
PETTE J W 46003  
PETTE J W 47482  
PETTYJOHN J E 45702  
PEYER E 47791  
PEYER E 42601  
PEYER E 43823  
PEYER E 49018  
PFALZGRAF 46479  
PFANNENSTIEL A 43594  
PFANNENSTIEL D 46939  
PFEIFFER J C 41520  
PFEIFFER R P 43937  
PFEIFFER C W 43938  
PFEIFFER H H 43942  
PFEISTERER E 45836  
PHADNIS K D 45905  
PHAFF H J 49239  
PHANEUF S S 47194  
PHATAK S S 43865  
PHELAN V J 45132  
PHILBERT M 48396  
PHILIP C B 48876  
PHILLIPS P H 49361  
PHILLIPS S E 46948  
PHILLIPS C E 46190  
PHILLIPS E F 42356  
PHILLIPS E F 42234  
PHILLIPS G A R 47571  
PHILLIPS G A R 44493  
PHILLIPS G A R 47195  
PHILLIPS R H 48214  
PHILP F H J 46524  
PHILP J 46198  
PIACCO R 42235  
PIACCO R 46356  
PIACCO R 47428  
PICARD A J 44781  
PICARD J 42112  
PICHON M 44553  
PICHON M 44445  
PICK F 43595  
PICKETT A D 41809  
PICKETT C 47885  
PIEL DESRUISSEAU J 47886  
PIEN J 47887  
PIEN J 47888  
PIENNAAR C J 45171  
PIERCE G L 45182  
PIERI M W 44313  
PIERRE W H 45248  
PIETTRE M 45248  
PIJUAN J MENEZ M 45530  
PILLER G 41732  
PILLARDI G 47483  
PINKERTON M E 43100  
PINNER J 49073  
PINNETT J G 46004  
PINNETT J G 43445  
PINNETT J G 48360  
PINNETT M D 45133  
PISHAWAR D G 48034  
PISKUR M M 45381  
PITCHER R S 48468  
PITOT R 49432  
PITTONI G 41733  
PLANK G M VAN DER 44001  
PLANK H K 43101  
PLATT MRS C 44691  
PLATT C S 41602  
PLAXICO J S 45172  
PLAZIKOWSKI U F 44518  
PLESETSKII P F 44385  
PLIAKHIN G 43518  
PLICE M J 46227  
PLOUVIER V 46569  
PLUMMER A P 46719  
PLUMMER J 48754  
PLUMMER P J G 44663  
PLUMMER P J G 42057  
POBLACION J 44603  
POCHON J 45314  
POCHVENNYI INST IM V V 45134  
POKUCHAEVA 43676  
PODHHAZKY G 48397  
POE C 45652  
POE C 44664  
POENICKE W 44665  
POGGIO F 45817  
POHJAKALLIO O 46570  
POHL H 44170  
POHL R 47429  
POISSON R 43103  
POLIACHEK I A G 43103  
POLIKARPOVA E F 47247  
POLK C IOWA BD OF ED 47248  
POLLACCI G 45350  
POLLARD E P 42058  
POLLASTRI F 42022  
POLONOVSKI M 43338  
POLSTER H 47572  
POLSTER H 41951  
POLSTER H 42679  
POLTAVTSEV M A 43104  
POLTEV V I 45749  
POMERLEAU R 47889  
POMMER A 47890  
POMMER A 41803  
POMPA A 43105  
PONS L J 44404  
PONTING C 43824  
PONTNAU E V 46571  
PONZI L S 41645  
POOLE A L 41653  
POOR MRS A E 41654  
POOS F W 41655  
POPE W 41656  
POPE W A 41657  
POPOV G A 41658  
POPOV N F 41659  
PORCINAI P 41660  
PORTA J E 41661  
PORTA L 41662  
PORTA L 41663  
PORTEOUS H 41664  
PORTEOUS H 41665  
PORTLAND CEMENT ASSOC 49406  
PORTLAND OREG MERCHANTS 42751  
PORTAL INST MAC DF ESTA 42134  
PORTAL INST MAC DF ESTA 42236  
PORTAL INST MAC DF ESTA 47672  
TIS 44446  
POSTMUS S 44666  
POTIER BOES J 47430  
POTTER J M S 44906  
POTTER J O 42753  
POTTER W 42753  
POTTINGER S R 47141  
POTVIN A 45865  
POULSEN E 44554  
POULTON C E 42680  
POUND G S 42680  
POUZIN P 47350  
POWELL J M 41810  
POWELL L B 46870  
POWELL OWEN W 41911  
POWELL OWEN W 48398  
POWELL OWEN W 42135  
POWELL OWEN W 42059  
POWERS F P 43825  
POZIDENA L 48129  
POZO PELAYO C DEL 46092  
PRAU J UE 46436  
PRATT A U 46163  
PRENTICE I W 44968  
PRESCOTT W 44779  
PREST R L 47484  
PRESTHEGGE K 46093  
PRESTON D A 49407  
PRESSER K R 42543  
PREVENT I 43106  
PREVENT I 43107  
PRIBBERNOW W 46650  
PRICE W 45300  
PRICE W A 41952  
PRICE W C 42237  
PRICHARD G L E 49019  
PRIESTMAN H L E 46645  
PRIKS E 48650  
PRILLINGER F 46400  
PRILLWITZ P M 41603  
PRIMA S D I 41604  
PRINCE A E 46310  
PRINCE F 42706  
PRINCE F S 47696  
PRINCE F S 48532  
PRINCE P W 47253  
PRINCE EDWARD ISL DEPT OF 47254  
AGR 49362  
PRINCIPI P 43639  
PRINEAS J 43108  
PRINGLE A V 47573  
42048 47515



PRINGLE A V 47575 RAU G J 45492 RIEDENER J 48221 ROJAS A F A 42449  
PRINS M 42546 RAUB A 42142 RIEL J VAN 46325 ROJAS VALDES G 45070  
PRINSEN L 46525 RAUCH A 42547 RIEGMAN G H 41706 ROLFSEN R 44495  
PRIOR K 49022 RAUCH A 43119 RIEGMAN G H 41962 ROLLINS H A 42681  
PRIODUEAU M 45066 RAUCHENSTEIN E 46575 RIEGMSCHNEIDER R 46011 ROMANNE JAMES C 43138  
PRIGUZEAU M 45067 RAUCHENSTEIN E 46593 RIEGMSCHNEIDER R 46012 ROMANNE JAMES MRS C 42782  
PRIBASCO K N 49091 RAUCOURT M 41815 RIERA F J 48135 ROMANOV A 47436  
PRIGBST B H 42427 RAUCOURT M 46009 RIES L W 46576 ROMBOLI B 48028  
PROCKTER N J 43112 RAUFER W B 43596 RIEUX PEYROU 43831 ROMERO DE TEJADA Y CUESTA 48136  
PROCKTER N J 43113 RAUN E S 46314 RIFFARD E M 43126 A 48830 45071  
PROCTER C 43828 RAUSHENBUSH S 49363 RIGHTER F I 42885 ROMERYE S A 48136  
PROCTOR C 46789 RAVAUULT L 42036 RILEY M T 43127 ROMIUN C 45071  
PROCTOR B E 46917 RAVERA A 48134 RILEY P O 43865 RONALD W R 48658  
PROGAN M 44194 RAVN L 45656 RIMESLATTEM H 45278 RONCART H 43139  
PROFFRANSOVA N 42763 RAWSON G W 44782 RINAIDI Z 43128 RONDIIA R 44351  
PROGETA A 45068 RAY K R 46596 RINDFLEISCH SEYFARTH M 41668  
PROKOPP S 44386 RAYMENT T 46383 45529 RONTCHEVSKY W 42886  
PROKUPK K 45219 RAZEE A H 47352 RINDI G 49307 RONWAL M L 45907  
PRONIN A A 49023 RAZOUS P 44352 RINGS R W 46230 ROOZEN L 43148  
PROUTY C C 47268 RAZOUS P 44365 RIPLEY D 43129 ROQUES H 45213  
PROVINCE MILK DEPT 47338 RAZUMOV V I 42065 RIPLEY P O 43447 ROSSBOROUGH J F 42607  
PROVOST A 48361 READ F W 42548 RIS H 46465 ROSSBOROUGH J F 42608  
PRUDENT I 48161 READ F W 49410 RISBEC J R M JR 46013 ROSCHEN H L 48045  
PRYOR M G M 45901 READ M 49285 RITCHIE R 46801 ROSE O 42450  
PUENTE POCH G DE LA 44064 REAGAN A B 42285 RITTER P 47257 ROSEBERG A R 45220  
PUERTO RICO LAND AUTHORITY 46755 REBOUR M 42604 RIVAL 45886 ROSELLA E 43448  
PUYIG J B 46006 RECALDE MARTINEZ L 43830 RIVAS ROS J 45866 ROSENBERG E A 46621  
PULLAR A 43114 RECHENTHIN C A 42066 RIVERA W J E 47748 ROSENBERG H 43141  
PULLE A ED 41558 RECHINGER FIL K H 44003 RIVERS J E 42756 ROSENKRAANZ F C 41881  
PUMPHREY F V 43794 RECHINGER FIL K H 41605 RIVES E 43832 ROSENKRAANZ F C 42072  
PUPPINI G 43892 RED CROSS NETHERLANDS 41606 RIVOIRE P 49154 ROSENQUIST C E 48570  
PUTMAN W L 45906 REDAELLI P 44713 RIZZO S L 42069 ROSENSTAND E 45566  
PUTNEY D 49148 REDDITT J R 48219 ROARK C L 44006 ROSS A A 43347  
PUYAL V 46572 REDMAN J C 46981 ROBB H 45382 ROSS H H 45066  
PYENSON M 47260 REDONDO GOMEZ J 48534 ROBB M H 44045 ROSS J G 42160  
PYKE M 49283 REE W O 46873 ROBB T R 46466 ROSS M H 45544  
PYKE R 45693 REECE P O 44458 ROBBINS H H 47307 ROSSI G 48137  
PYNAERT L 47576 REED J F 41912 ROBEQUAIN H C 48319 ROSSI R P 47977  
QUACKENBUSH A 41813 REED M J 42365 ROBEQUAIN F K 42549 ROSSOUW S O 47581  
QUAGLIA F 44604 REEVES E C 47339 ROBEQUAIN F K 43130 ROSSOUW S O 47582  
QUAIN C 45432 REEVES R G 42067 ROBEQUAIN F K 49026 ROSSOUW N R 47485  
QUAINE J 43115 REGAN C W 43120 ROBERT A 46505 ROST H 44281  
QUARRELL C P 43116 REGAN C W 43121 ROBERT E 42070 ROSTAND A 42428  
QUARRELL C P 43117 REGAN C W 42135 ROBERT E 43131 ROSWALL G 46137  
QUARRELL C P 43339 REGAN C W 49310 ROBERTS F R 45174 ROSZMAN F U 49030  
QUARRELL C P 43340 REGAN C W 46096 ROBERTS H L 48703 ROTH H 42258  
QUARRELL C P 43341 REHMAN G 46664 ROBERTS W L 45255 ROTHANSL W 47308  
QUEBEC MIN DE L INDUS ET 43341 REHRL K 46664 ROBERTS W L 45256 ROTHE P L 42882  
DU COM 43341 REICHART M A E 49400 ROBERTS W L 45257 ROTINI O T 47583  
BUR DES STATIS 47078 REICHGELT T 42116 ROBERTS W L 47385 ROTSCH A 47893  
QUEENSLAND BUR OF INVEST 43939 REID J T 46667 ROBERTS W L 47387 ROTTENSTEN K A 49111  
QUEENSLAND GOVT STATIS 47071 REID J T 44973 ROBERTSON A 45136 ROTTGAROT A A 45072  
QUEIROZ M DE S 44909 REIN H 44278 ROBERTSON A 46752 ROTTIN B 44127  
QUESADA BRAVO G 47976 REINEKE 47579 ROBERTSON D D S 44555  
QUEYAUILLER A 41524 REINELT F 48879 ROBERTSON J T C 47340 ROUSSEAU J 47584  
QUIG J B 47577 REIS C OOS 43122 ROBERTSON J L S 47031 ROUSSEAU J 41522  
QUINBY J R 41814 REISER R 42117 ROBERTSON L S 43807 ROUSSEAU L Z 41610  
QUINLAN L E 43318 REITER K 45240 ROBERTSON P L 46437 ROUSSEL 41882  
QUINTANILLA R H 46007 REMMELTS 47992 ROBERTY G 41608 ROUSSET H 47978  
QUITTER H A 47305 REMPICCI F 43123 ROBERTY G 41609 ROUSSY L 46138  
QUOTRUP E R 45259 REMPT J D 44910 ROBIN F 41816 ROUSSY L 46359  
QUOTRUP E R 45501 REMY P 48701 ROBIN F 41736 ROVESTI E 43524  
RAC E 47578 RENARD P 46504 ROBINSON B C 46620 ROVESTI G 48138  
RACICOT H M 41857 RENAUD M 45337 ROBINSON C C 43132 ROVESTI P 48139  
RADEMACHER B 41855 RENDEL J M 42605 ROBINSON C C 43133 ROWE B M 47894  
RADETZKY 45439 RENNER F 48411 ROBINSON C C 45657 ROWE E H 48260  
RADEMACHER MRS 45173 RENTICK B 46010 ROBINSON C C 47199 ROWE R 46438  
RADHAKRISHNA RAO M V 49284 RENTSCHLER M 45136 ROBINSON C C 47654 ROWNTREE L E 43142  
RADOK J R M 44405 RENZ J 46010 ROBINSON E A 47435 ROWSON L E 45073  
RAE A L 45736 RESUGGAN J C L 47142 ROBINSON J L C S 48936 ROY J B 46222  
RAFOLS W DE 43523 RETTERER E E 47433 ROBINSON R A 48336 ROY P E 46670  
RAGAZZI G 48816 RETTIE J C 47143 ROBINSON R G M 48336 ROY P O 42682  
RAGSDALE A C 44997 RETTIE J C 44191 ROBINSON U M 43345 ROY P O 43834  
RAGSDALE A C 46770 REUBELT V A 44494 ROBINSON W B 42149 ROY R VAN 44949  
RAHLOW H J 47927 REUI R 43660 ROBINSON W B 43887 ROY R VAN 47267  
RAIA M 46573 REUTER M 47687 ROBINSON W B 42071 ROY Z 48187  
RAIMO H F 48218 REYNOLDS D 45713 ROBINSON W L 47673 ROYAL DUBLIN SOC 45818  
RAIMONDI R 45884 REYNOLDS H F 42068 ROBINSON W L 4318 ROYAL HORT SOC TULIP NO 48148  
RAKITER A P 49277 RHODES M M 46032 ROBINSON W L 48148 ROYAL HORT SOC TULIP NO 48148  
RAKITNIKOV A N 48652 RHODES M M 45713 ROBINSON W L 48148 ROYAL HORT SOC TULIP NO 48148  
RALLI C M 48653 RHODES M M 46032 ROBINSON W L 48148 ROYAL HORT SOC TULIP NO 48148  
RAMA RAO B V 48877 RHODES M M 45713 ROBINSON W L 48148 ROYAL HORT SOC TULIP NO 48148  
RAMADORO A 43940 RHODES M M 46032 ROBINSON W L 48148 ROYAL HORT SOC TULIP NO 48148  
RAMAGE W D 46921 RHODES M M 45713 ROBINSON W L 48148 ROYAL HORT SOC TULIP NO 48148  
RAMAKRISHNAN K 41666 RIBEIRO J A 47697 ROCHA A 49155 46995  
RAMAKRISHNAN K C 47306 RIBEIRO J A 48220 ROCHMANN R 48046 ROYSET S 48007  
RAMAKRISHNAN K C C 48399 RIBEIRO J A 44004 ROCHMANN R 48802 ROYSET V I 46897  
RAMAKRISHNAN K C C 48878 RICE C T 43707 ROCKWELL B A 43640 RUDE 42366  
RAMAKRISHNAN T S 41666 RICE E B 44473 ROCKWELL F F 42922 RUDE 42367  
RAMAKRISHNAN V G 48654 RICE E E 47197 ROCKWELL F F 43134 RUDE 43882  
RAMELLA R 44277 RICE W S 48756 RODALE J I 43641 RUEHE H A 47353  
RAMIREZ C A 47196 RICH A B 47465 RODALE J I 43641 RUEHE H A 47353  
RAMIREZ SILVA F J 48316 RICH L H 49322 RODALE J I 43641 RUEHE H A 47353  
RAMON G 45069 RICH S 42633 RODENHISER H A 43881 RUGGIERI G 41902  
RAMONA R DE 42364 RICHARD C A 47340 RODHAIN J 41827 RUIZ I 46958  
RAMOS CHOLBI A 42755 RICHARD O 45137 RODIL CALDERON T 49027 RUIZ DIAZ I M 43597  
RAMOS LARA M 44002 RICHARD P 41825 RODIONOV A D 45025 RUIZ MARTINEZ C 47037  
RAMOS NUNEZ G 48317 RICHARDS A A 44668 RODRIGUEZ J I 42240 RUMIANTSEVA E I U 45716  
RAMSAY A J 46008 RICHARDS A A 44668 RODRIGUEZ J V 44670 RUNGE M 42551  
RAMSBOTTOM J M 48045 RICHARDS A A 43342 RODRIGUEZ ADAME J 45658 RUNIKHIN I U 45715  
RAMSEY G B 47792 RICHARDS C R 43343 RODRIGUEZ CASALS C 43136 RUPP E 43598  
RANDALL R 47432 RICHARDS V M 43344 RODRIGUEZ C 48757 RUPP E 44073  
RANDALL H L 48242 RICHARDSON J D T 45302 RODWELL C 48047 RURAL AND INDUS BANK OF 48047  
RANGEL J F 42063 RICHARDSON J D T 43124 ROE A L 48656 WEST AUSTRAL 48436  
RANNEIS K 46574 RICHARDSON L R 44691 ROEKENS F 45659 RUSANOV F N 41883  
RANNEY W P 48782 RICHARDSON U F 41837 ROELS M 42279 RUSH H 41611  
RAO K S 48435 RICHARDSON U F 41857 ROEMER M I 43137 RUSK H W 45941  
RAO K S 49149 RICHFR A 44209 ROEPKE M H 48657 RUSSELL D 49031  
RAO M S S 43621 RICHET C 44783 ROEREN SCHOTTE K 49028 RUSSELL S I R E J 44007  
RAO N K S 41514 RICHLEY F B 42013 ROE CODINA J 45854 RUSSELL S I R E J 48660  
RAO P S 47548 RICHOU R 49272 ROGACHEV F I 44671 RUSSELL E W 43622  
RAPALLO ABAD J 43829 RICHTER A 42239 ROGENT I 43833 RUSSELLI H 45885  
RAPP W F JR 41628 RICHTER D 45069 ROGER M 43326 RUSSELL J P C 43144  
RAPS G R 44605 RICHTER R G 47809 ROGER METAY F 42606 RUSSELL K N 45138  
RAPSON W S 48222 RICKENBACH R G 46526 ROGERS C F 44672 RUSSELL R S 44354  
RAPTSCHINSKY B 48229 RICKER P L 44784 ROGERS E J 46467 RUSSENHOLT E S 44195  
RASANEN V 41667 RICKES E L 43446 ROGERS H 42225 RUSSO G 46336  
RASBRIDGE W J 45198 RICKES E L 42256 ROGERS J B 42146 RUSSWURM A D A 46439  
RASCHKE O 48027 RICKETTS V L 47262 ROGERS J S 45391 RUSSWURM X 46098  
RASH J R JR 44969 RIDDELL G E 45241 ROHDE E S 42241 RUTY O 43681  
RASMUSSEN K 48725 RIDDER J 48913 ROHR H V VON 43708 RUWITCH J 45208  
RATCHFORD C B 48760 RIDLEY M C 48655 ROHR V 43346 RYAN G 44420  
RATHBONE R B 49025 RIDLEY M C 43125 ROHRER W C 46982 RYAN G L 48987  
RATHBUN H B 49101 RIDYARD H N 45229 ROHWER C 46940 RYBERG M E 44478  
RATNER E I 42064 RIECKEN F F 47892 ROHWER S A 49029 RYBECK V A 48822  
RAU G 45301 RIEDEL G 43680 ROIG O 43941 RYKOV N A 46384  
45335 ROJAS A A 48535 ROJAS A A 46035 RYPACEK V 41818  
48320 45175 RYSTEDT F 46810



	ITEM		ITEM		ITEM		ITEM
SABAUDOR HOLDAN A	49156	SAYEGH D	43350	SCHULZ W G	46651	SHARVELLEE G	45984
SABATIER E	48758	SAYLES M	42758	SCHULZE EVERDING J	46820	SHASHKO D I	49443
SABBADINI E	48140	SCAGLIARINI A	46983	SCHUMY V	48667	SHAULIS N	42762
SABIO MOHA J	45400	SCAMMAN E	41629	SCHUMY V	48668	SHAW A O	42771
SABOE L C	42429	SCAMONI A	44171	SCHURCH A	45703	SHAW C	47439
SABOURIN L	43348	SCANLON C W	45393	SCHUSSNIG B	41915	SHAW C G W	41822
SACCAS A	41787	SCARSETH G D	44067	SCHUSTER	46581	SHAW J C	44972
SACCO P	45886	SCARSETH G D	49158	SCHUTZ F	42761	SHAW J C S	46985
SACHSE K	42430	SCEARCE J L	48117	SCHUTZE P	46623	SHAW M L	47770
SACRE A	46139	SCHAAL A	46941	SCHUTZER I B DE C	49159	SHAW R P	45140
SADANA J C	42138	SCHACKLETON P	44196	SCHUYTBROECK P VAN	46288	SHAW T M	44570
SADON J	42913	SCHAD C	42244	SCHWAB J W	45355	SHAW T M	42077
SAELAND	47259	SCHAD G	44239	SCHWARTZ B	45780	SHCHIROV B	46837
SAGER O S	47055	SCHAEFER V J	42042	SCHWARZ M	41615	SHEA L J	46647
SAGOSCHEN J A	41612	SCHAEFFER P	42684	SCHWEIGERT B B	45533	SHECHY E J	46677
SAIL K	41819	SCHAEFER E G	43451	SCHWEIGERT B B	49288	SHEETS O	49324
SAINT PERIER R DE	42463	SCHAEFER P J	44488	SCOTT E L	48142	SHELLEY E M	45243
SAINT QUENTIN M	43449	SCHAIK T VAN	44675	SCOTT E L	43152	SHEPARD H B	44129
SAINT QUENTIN M	44914	SCHANDLER S	49287	SCOTT H M	45493	SHEPARDSON W B	42022
SAINT QUENTIN M	47895	SCHANDLER S	47144	SCOTT I W	45802	SHEPHERD A D	47780
SAJA F	46894	SCHAU S	47486	SCOTT L W	43153	SHEPHERD F W	48671
SAKK K	47771	SCHAEFFER C H J	46895	SCOTT M H	44355	SHEPHERD G S	48449
SAKURA S	48661	SCHAEFFER F	43885	SCOTT T L	46101	SHEPHERD J B	43840
SALA ROCA E S	44785	SCHAEFFER T C H	41737	SCOTTON M	46942	SHEPHERD W O	42038
SALAFRANCA E S	42683	SCHAEFFER T H	46579	SCRUGGS C G	44240	SHERA F	42286
SALAMATOV M N	41955	SCHAEIB H	45867	SCRUGGS C G	44970	SHERBAKOFF C D	43274
SALAMOV A V	46577	SCHAEIBE	45750	SCURTI F	47794	SHERFF E E	41617
SALAS C A	45303	SCHAEIDLER S	45440	SCURTI J	41616	SHERMAN C B	45662
SALAZAR Z	45660	SCHAEIDY S F	44788	SEARLES J R	45139	SHERMAN D C	44314
SALAZAR Z	45383	SCHELLENBERG A A	42759	SEARLES E N	48223	SHERMAN F G	42078
SALAZAR Z	46099	SCHELLENBERG A A	46360	SEARLES E N	48224	SHERMAN M	49277
SALCES F	48321	SCHELLENBERG J	47145	SEARLES E N	48225	SHERRY S P	41952
SALE F	41914	SCHELLING J	43682	SEATON H E	43154	SHERWOOD R M	45413
SALES A	49032	SCHELLING J	43683	SEBELL J W H	49289	SHERWOOD R M	45533
SALISBURY S H E	44903	SCHENK E T	49365	SECHER J	47701	SHEUKING J J	47440
SALISBURY E I	41523	SCHENK P J	46441	SECHRIE E L	46102	SHEWELL COOPER W E	42612
SALISBURY G W	44388	SCHENK P J	46442	SECKMAN M C	42555	SHEWELL COOPER W E	42685
SALLE A J	41540	SCHENK P J	49366	SECRETT A W	47655	SHEWELL COOPER W E	42763
SALLENAVE P	46440	SCHENK P J	45432	SEDLAK J	49160	SHEWELL COOPER W E	42764
SALMON J	46468	SCHERER F	45075	SEELICH F	48083	SHEWELL COOPER W E	43157
SALMON J T	46507	SCHERRER S	48250	SEELY C I	43451	SHEWELL COOPER W E	43158
SALMON J T	43835	SCHERRER W	46622	SEEVERS M H	45228	SHEWELL COOPER W E	43351
SALOM J	44467	SCHERUGA F	45076	SEEVERS M H	45229	SHEWELL COOPER W E	43352
SALONE J	42238	SCHERUHAMMER F F	45868	SEGUALA J	42256	SHEWELL COOPER W E	43354
SALONEN A	47729	SCHESY G	43694	SEGUALA M J	47910	SHEWELL COOPER W E	43355
SALTER A G	42117	SCHESY G	43836	SEGUINAUD M P	47149	SHEWELL COOPER W E	43841
SAIUSTE E	44786	SCHICK R	47202	SEIBOLD H	46722	SHEWELL COOPER W E	46015
SALVADOR A N	44283	SCHICKELE R	48665	SEIFER A	49161	SHEWELL COOPER W E	46791
SAMAQYA PIVARAL R	45661	SCHIJEN J M	43684	SEILER J	46443	SHEWELL COOPER W E	46791
SAMAT M	45354	SCHILLER A E	41730	SEILER J F	44390	SHIBUKAWA J	42693
SAMMARTANO A	46527	SCHILLINGS	45304	SEIXAS C A	46233	SHIDENKO I K H	41954
SAMMET L L	44327	SCHINDLMAYER A	43525	SEIBY H W	46203	SHIELDS R H	46986
SAMOFALOV A I	47700	SCHINDLER	44557	SEIBY H W	49162	SHIELDS R H	48327
SAMONISKY A	48937	SCHINDEL	44128	SEIJESET I	45249	SHIGONIN K A	43356
SAMPALIO D	48322	SCHLATTER A J	44496	SELL H M	42075	SHIMWELL J L H	47151
SAMPAIO S DE C	48803	SCHLEEF M L	44296	SELLARDS G	45840	SHINNERS L H	41526
SAMPIER J	48804	SCHLENKER F S	42073	SELLERS R J	42368	SHINNERS L H	41618
SAMUELSON E	45526	SCHLEUSNER P E	43942	SELLERS R R	46469	SHINNERS L H	41619
SAMUELSON E	45526	SCHLOGL A	48666	SELLIER R	46470	SHINOHARA B	43357
SAMUELSON E	45526	SCHLOTTMAUER C F	47781	SELSKAPET FOR MORGES VEL	44210	SHIRAKI T	42631
SANDBOERF PLANTEAVLSUDV	41956	SCHLUMBERGER R	47146	SELSKAPET FOR MORGES VEL	44210	SHIRLOW N S	42101
SANABIA ORTEGA A	45074	SCHMALFUSS H	46444	SELTZER G L	48805	SHIRSHOV N V	43226
SANBORN H C	45176	SCHMID C	47147	SELTZER G R E	47587	SHOFFNER R W	48760
SANBORN K	45537	SCHMID G	42609	SEMINO J O	47587	SHOENEN C B	47354
SANCHEZ J	48662	SCHMID G	43886	SEMPHON DE LA QUINTANA J	45077	SHOJI H	43930
SANCHEZ BUEDO E	44065	SCHMID G	45078	SEN GUPTA P C	45078	SHOJI H	43943
SANCHEZ DUARTE J	48323	SCHMID W	42610	SEN GUPTA P C	47900	SHOLL L B	45857
SANCHEZ MARROQUIN A	47835	SCHMID W	46580	SEN GUPTA P C	47900	SHOLL P G	48437
SANCHEZ MENESES V	49033	SCHMIDHAMMER G P	44638	SENEVIRATNE J I	46680	SHOPE R E	45039
SANDAE C H	49194	SCHMIDHAUSER P	44676	SENILIS M	45242	SHOPE R E	45080
SANDBERG H	44915	SCHMIDT A D J K	46100	SENTORI A	47589	SHOTWELL R L	46471
SANDBERG MRS W	49157	SCHMIDT H W	42611	SETOANE E	44473	SHPILER E E I A	42765
SANDER J	48702	SCHMIDT H W	46287	SETHOUX J	46528	SHRIRGANZ L	48903
SANDER O	43145	SCHMIDT L W	49367	SETHOUX J	44781	SHREVE E P	44197
SANDER O	43349	SCHMIDT L W	42552	SERANDOUK P	46984	SHRIKHANDE J G	43842
SANDERS G P	47259	SCHMIDT R	44607	SERANDOUK P	48669	SHUKOVICH M M	43600
SANDERS H	48663	SCHMIDT R	46408	SERBAT L	48470	SHULMAN E M	46986
SANDERSON C J	44606	SCHMIDT R	45737	SERBAT L	48470	SHUI P I N I M	48761
SANDERSON C C J	45384	SCHMIDT W	42553	SERPENT E	46165	SHULTIS A	48227
SANDERSON C C J	45384	SCHMIDT W	42554	SERPENT E	46165	SHULTIS A	48227
SANDERSON D E	44916	SCHMIDT W	47898	SERPENT E	46165	SHULTIS A	48227
SANDERSON E H	42160	SCHMITT L	45177	SERPENT E	46165	SHULTIS A	48227
SANDFORT J	44091	SCHMITT L	46327	SERPENT E	46165	SHULTIS A	48227
SANDO W J	47838	SCHMITZ W R	42760	SERPENT E	46165	SHULTIS A	48227
SANDVIK J O	48664	SCHNEIDER F	46014	SERPENT E	46165	SHULTIS A	48227
SANKARAN A	43787	SCHNEIDER F	45221	SERPENT E	46165	SHULTIS A	48227
SANSOM T K	47821	SCHNELLE G B	43150	SERPENT E	46165	SHULTIS A	48227
SANTI JUAERZ T	48412	SCHNIZER M G	47585	SERPENT E	46165	SHULTIS A	48227
SANTISTEBAN T	48324	SCHOBEL A	45079	SERPENT E	46165	SHULTIS A	48227
SANTIS L DE	46385	SCHOECHLI A	41738	SERPENT E	46165	SHULTIS A	48227
SANTOS E	44008	SCHOEHL	46361	SERPENT E	46165	SHULTIS A	48227
SAO PAULO BRAZIL INST DE	41559	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SAT	41559	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SARAVIA IGLESIAS G	41820	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SARDO W H JR	44468	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SARMIENTO L A	45316	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SARKABAY J	42242	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SARKABAY J	42757	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SARKAIN G E	47309	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SARKTOY A	41524	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SASAKAWA T	45959	SCHOEHL	45222	SERPENT E	46165	SHULTIS A	48227
SASKATCHEWAN COOP PROD LTD	42243	SCHOLTE H	49240	SERPENT E	46165	SHULTIS A	48227
SASKATCHEWAN DEPT OF AGR	49364	SCHOLTE V	47899	SERPENT E	46165	SHULTIS A	48227
SASKATCHEWAN DEPT OF COOP AND COOP DEVLPMT	49034	SCHONBERG J S	48012	SERPENT E	46165	SHULTIS A	48227
SASKATCHEWAN MUNIC HALL	48469	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SASMAN L M	41983	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SASTRY N S R	49182	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SATTTLER L	48325	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAUCHELLI V	44066	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAUER E L	44009	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAUERLANDT W	43883	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAUNDERS D H	45988	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAURAT P S R	45337	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAUZE F	49035	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAVAGE P J JR	46578	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAVAGE R L	43146	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAVAGE W N	46164	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAVAZZINI D	46765	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAVEL EV D V	43884	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAVI P	46286	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAVULESCU T	45779	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAWADA K	41669	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAXBY S H	43147	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
SAXE R E	43450	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227
	43148	SCHONBERG J S	46302	SERPENT E	46165	SHULTIS A	48227



ITEM	ITEM	ITEM	ITEM	ITEM
SINCLAIR J G	44010 SNYDER R C	44779 STAUNING A	48438 STURKIE P U	45574
SINCLAIR R D	44917 SNYDER W E	42080 STAUNING A	49200 STURROCK F G	48539
SINDORF H	47355 SOCIEDAD RURAL ARGENTINA	42080 STAUNING A	49215 STURTEVANT A H	46292
SINEY A K	44939	42080 STAUNING A	46584 STUTT R A	48905
SINGER R	42247 SOCIETE POMOLOGIQUE DE	42080 STAUNING A	43176 STYBKA J J	48766
SINGH B	41670 FRANCE 42614	42006 STAWOWCZYK R L JR	42140 SUECKLING W T	42771
SINGH B N	47310 SODING H	46166 STEARNS C	46020 SUDENBACH F	45820
SINGH S	42012 SODTARDI R G	46166 STECHERT D G	41960 SUGAR RES FOUND	48328
SIPPEL W R DE	45870 SOIL CONSERV SOC OF AMER	42080 STEDE A	48256 SUGAR TECHNOL ASSOC OF	
SIQUEIRA L R DE	42921 48904	43602 STEDE A	48765 INDIA 48329	
SIRROTTI L	44678 SOKOLOV A V	45307 STEEDMAN A D	47206 SUGAWARA T	42083
SIRRI A	45143 SOLANET E	46140 STEEL J O	46988 SUGDEN G H	47905
SIRRI A	42372 SOLANO R	47261 STEELE J A H	45198 SUGIMOTO Y	43366
SIRRI A	45141 SOLBERG P	42249 STEFFEL J A H	47979 SUGIYAMA H	46912
SIRRI A	45142 SOLIDANI R	44562 STEELE T E	44795 SUGIYAMA T	47799
SIRRI A	45819 SOLIS E	48116 STEEN M O	43177 SUKHATHE P V	47067
SIRRI A	46812 SOLLERS W F	46326 STEENB J E	42277 SULLIT C	44558
SIRRI A	48489 SOLLERS H F	43363 STEENB J E	44012 SULLIVAN C C	47341
SIRRI A	48672 SOLODOVNIKOV F S	42024 STEERE R L	44013 SULLIVAN P	43187
SIRRI A	49164 SOMERS G F	44356 STEEVES L	41862 SUMMERS E	42251
SIRRI A	43624 SOMERS J G	43844 STEFFEN A	43178 SUMMERS E	49042
SIRRI A	41823 SOMERSET G C	42081 STEFFEN K	43179 SUMMERS T H	48679
SIRRI A	43551 SONDERSHOUSE E O	47674 STEIN W N	41918 SUNDERLIN G	49292
SIRRI A	43552 SONDHEIMER E	42376 STEIN H	41919 SUTKOV V	47446
SIRRI A	43553 SONNEVELD A	48923 STEIN H	43180 SUSHITSKII L A	41826
SIRRI A	41957 SORBI U	47482 STEINER M L	43364 SUSS K	44796
SKAAR C	44406 SORENSSEN A J	48490 STEINER M L	43181 SUTCLIFFE A	43188
SKAARE B	42373 SORENSSEN F	47656 STEINKAMP F A	49370 SUTHERLAND A	44920
SKARIEN K E	42557 SORENSSEN H	41621 STEINMANN H	42378 SUTHERLAND A	44921
SKATIN I D	42248 SORIANO A	47901 STEISKAL L	44151 SUTHERLAND A	45310
SKATKIN P N	45716 SOROA J M DE	47443 STELFOX A W	49484 SUTHERLAND A	45311
SKATVEDT K	42319 SOROKIN V V	41959 STELLWAAG F	46387 SUTHERLAND A	45805
SKELLEY W C	48906 SOSA BOUKOUIL C	42082 STENUIT	46021 SUTTER C M	45668
SKELTON V B G	45889 SOSA BOUKOUIL C	45397 STENUIT D	43603 SUTTERLUTY J	44922
SKELTON V B G	48228 SOSZKA S	46987 STEPANOV B N	43847 SUTTON T S	44951
SKERMAN V B D	43601 SOTH L	44679 STEPHEN W A	42162 SUZUKI K	43302
SKINNER A F L	44011 SOTOLA J	43789 STEPHEN W A	46106 SUZUKI M	46022
SKINNER F L	43165 SOTOMAYOR I	41916 STEPHENSON W A	46107 SVARNAS D	44288
SKINNER H T	43166 SOUEGES H	41917 STEPHENSON W A	45187 SVENSKA FARAVELSFOR	45806
SKINNER J J	42085 SOULAIRE J	42820 STEPHENSON W A	43848 SVENSKA MEJERIERNAS	
SKOGLUND W C	45494 SOULE A M G	46363 STEPLING L D	43453 SVENSKA MEJERIERNAS	
SKORNIakov M E	44327 SOUSA H D DE	42082 STERN J K	43568 SWAFFIELD W H	43189
SKOROKHOD V G	44213 SOUTHERN RHODESIA DEPT OF	49470 STERN W	49090 SWANN O	45878
SKOVGAARD K	48400 AGR AND LANDS	42464 STETSON R A	46959 SWANN O	45878
SKROLA W H	43167 SOUTHERN RHODESIA TOBACCO	42464 STETTER H	44479 SWAMY B G L	41920
SKROLA W H	41821 SOUTHERN RHODESIA TOBACCO	42464 STEVENS A E	47670 SWAMY G L	41920
SKRIPNIK G M	47702 SOUZA J S I DE	46167 STEVENS A E	47798 SWAN L C	43951
SKROBANSKII G G	46897 SOUZA O P C DE	46167 STEVENS A E	47445 SWANBACK A T R	46627
SLACK S T	44973 SOUZA J S I DE	43845 STEVENS J	49326 SWANSON A R	43665
SLAGLE A B	47592 SPAGFORD W J	48676 STEVENS J	44317 SWANSON C L W	42163
SLAGSVOLD P	45255 SPAGNOLI A	43173 STEVENS J	44421 SWANSON H B	44975
SLANSKY P	48144 SPAIN R L	42570 STEVENSON J C F	43365 SWANSON R G	49168
SLATE G L	42613 SPANGLE L P	43527 STEVENSON J B H	43182 SWANTON M K	48441
SLATE G L	42666 SPANGLER G P	43565 STEVENSON J B H	43183 SWANZEY H M	48245
SLATE G L	42766 SPANGLER M G	45144 STEVENSON W L	45251 SWART G H	
SLATTER E E	45081 SPANN J	49165 STEWART C L	45573 SWEDEN DOMANSTYRELSEN	
SLAWKOFF I D	45871 SPARKES S	46039 STEWART D	48914 SWEDEN DOMANSTYRELSEN	
SLIFKO C W L	44448 SPARKES L M JR	41529 STEWART F R	48439 SWEDEN LANTBRUKSHOGSK	
SLUZALIS L L	44449 SPARN E	41909 STEWART G H	46529 HUSDJURSFORSOKSANST	
SMALL R T	42635 SPATZAL A H	46104 STEWART H A	45821 SWEDEN VETERINARHOGSKOLAN	
SMART J	46017 SPATZAL A H	44779 STEWART J	49067 SWEDEN VETERINARHOGSKOLAN	
SMEDT P DE	48229 SPATZAL A H	47572 STEWART M H	46604 SWEENEY M L	44469
SMILES J	45526 SPEAKMAN J B	42431 STEWART V	43184 SWEENEY O R	47906
SMIRNOV F	42161 SPEAR G H B	43528 STICHTING V DEN LANDB	43184 SWEENEY L	45544
SMIRNOV V G	46897 SPECK F G	47387 STIERLI H	46327 SWELLENREBEL W H	46328
SMIRNOVA G A	42139 SPECK M L	45223 STILES J A	47033 SWELLENREBEL W H	49169
SMIRNOW L C	43168 SPEED J G	46624 STILES J A	47989 SWIFT L W	49376
SMITH A C E	45178 SPEISER	47595 STINE O C	42465 SWIFT L W	49327
SMITH A C E	45694 SPENCER C B	45083 STINSON F A	46599 SWIGGLE C F	43852
SMITH A C E	43169 SPENCER G R	45442 STITT R I	48231 SWINGLE J W	41742
SMITH A C E	43170 SPENCER G R	47364 STOCKBRIDGE H R	48538 SWITZERLAND EIDG OBER	
SMITH A C E	48763 SPENCER L	48809 STOCKBRIDGE H R	48401 ZOLLDIR 49241	
SMITH A C E	46411 SPENCER L	42117 STOCKBURGER	48677 SWORD J	47907
SMITH C H JR	41513 SPERBER E	41824 STOCKBURGER	47904 SYLVESTER I	49170
SMITH C H JR	44779 SPICER O W	43174 STOCKBURGER S	44285 SYLVESTER E P	43455
SMITH C H JR	45804 SPIES T O W	49325 STOCKWELL P	48013 SYMES E L	43625
SMITH C H JR	45988 SPIES T O W	46232 STOCKWELL P	41825 SYNDER L C	44092
SMITH C H JR	44974 SPIETH H T	46232 STOCKWELL P	43454 SYNDIKUS W	49328
SMITH C H JR	48764 SPITTLE R J	48471 STODARD M	47722 SYNDER L C	41530
SMITH C H JR	44148 SPITZ H	42229 STODARD M	49040 SYNDER L C	41531
SMITH C H JR	43361 SPRAGUE F F J	41740 STOKES J L	47262 SZILVINYI A	47153
SMITH C H JR	45203 SPRAGUE F F J	43175 STOKES W E	42297 SZYMKIOWICZ D	41562
SMITH C H JR	45385 SPRING J W JR	42377 STOKES W E	43688 SZYMKIOWICZ D	41563
SMITH C H JR	46235 SQUADRONI G	42768 STOLE K	47207 TABASSO E	47597
SMITH C H JR	47765 SQUADRONI G	46018 STOLET OV V N	49368 TABASSO E	47598
SMITH C H JR	49038 SQUIRE F A	45665 STOLL F	49421 TABASSO E	47074
SMITH C H JR	41841 SQUIRES G A	47444 STOLL G	47208 TAEUBER C	45145
SMITH C H JR	43824 SREBNIK V	43621 STONE D	49041 TAGLE E C	45356
SMITH C H JR	43843 SREBNIK V	46105 STONE E C	44919 TAGLE V I	42084
SMITH C H JR	46386 SREBNIK V	46920 STONE F C	45309 TAGUCHI R	42636
SMITH C H JR	43680 SREBNIK V	47311 STONE W S	46509 TAI E A	43945
SMITH C H JR	43690 SRINIVASAYYA Y	46105 STONE W S	48678 TAKADA Y	43946
SMITH C H JR	46316 SRIVASTAVA A S	44149 STOPPELENBURG A H	47657 TAKADA Y	43946
SMITH C H JR	47260 SRODON A	42250 STORCK G	43849 TAKEMATSU T	47776
SMITH C H JR	42781 STABLER S P	45308 STORM H	45085 TALBOTT P	46900
SMITH C H JR	45663 STABLES J T	45739 STORY R P	48440 TALEGON HERAS L A	47980
SMITH C H JR	42767 STABLES J T	44393 STOUT L E	48145 TALIAFERRO L G	45575
SMITH C H JR	43171 STACEY W A	42277 STOUT O V P	43941 TALIAFERRO L G	45575
SMITH C H JR	45203 STACY S V	45570 STOVES J L M	47596 TALL M G	41858
SMITH C H JR	48921 STADELMAN W J	44226 STRAIGHT J B	49195 TALLARICO G	42529
SMITH C H JR	46290 STAEBLER G R	45571 STRANDER J B	43185 TALLARICO G	45988
SMITH C H JR	44172 STAEHELIN	45666 STRANSKY E	45667 TALLEY F B	44199
SMITH C H JR	47442 STAEHELIN	45572 STRAUB E	46911 TAMESIS F	
SMITH C H JR	45664 STAFFE A	46326 STRAUB M	47152 TAMIL NAD CONG COM	
SMITH C H JR	47902 STAGE H H	41741 STREET O E C P	47838 DEPT OF SOCIAL AND	
SMITH C H JR	41620 STAGE H H	43452 STREIF G	46681 STUDIES 48882	
SMITH C H JR	45082 STAHN N	47205 STREME H	46585 TANABE K	43945
SMITH C H JR	49420 STAHLER L M	44150 STRICKLEN G M	43689 TANABE K	43947
SMITH C H JR	47687 STAHLE F	49039 STROHM J	43186 TANABE Y	44923
SMITH C H JR	47792 STALFELT F	44407 STROYS L C	46777 TANAKA T	42616
SMITH C H JR	48537 STALL C W	46899 STRICKMEYER B F	43850 TANNAZ F	45443
SMITH C H JR	42451 STAMM A J	43855 STRUNZ H	48688 TAPIAS MARTIN S	47991
SMITH C H JR	48048 STAMMLER H	48060 STRUNZ H	44068 TARKOW H	44407
SMITH C H JR	43685 STANBERRY C O	48362 STRUNZ H	44093 TARRONIA G	49171
SMITH C H JR	43686 STANBERRY C O	43846 STRUNZ H	48413 TARRONIA D	44924
SMITH C H JR	44794 STANDARD AND POOR	49166 STRUNZ H	48491 TASMANIA DEPT OF AGR	
SMITH C H JR	47718 STANDARD AND POOR	43455 STRUNZ H	48492 TASSY L	43190
SMITH C H JR	48922 STANFORD J	42687 STRUNZ H	48494 TATE G	43887
SMITH C H JR	45890 STANFORTH D W	44520 STRUNZ H	48495 TATUM L	49043
SMITH C H JR	43362 STANKOVIC D W JR	49369 STRUNZ H	48496 TAVERNETTI J R	46724
SMITH C H JR	47797 STANLEY G M	44918 STRUNZ H	48497 TAVERNIER J	47800
SMITH C H JR	45179 STANLEY W M	42769 STUYGIN N M	41650 TAYLOR A J	49044
SMITH C H JR	48236 STANBURY J L	49444 STUART F C	45394 TAYLOR B M	42075
SMITH C H JR	47703 STANTON H	42293 STUART F B	46108 TAYLOR C A	45187
SMITH C H JR	43172 STAPLETON H N	42615 STUART P	45049 TAYLOR C C	46901
SMITH C H JR	42073 STARE F J	47902 STUART P	45086 TAYLOR C R	48237
SMITH C H JR	47407 STARK A	47903 STUBBINGS R L	47993 TAYLOR F J	42558
SMITH C H JR	47503 STARK W H	49445 STUMPER R	46388 TAYLOR H	42287
SMITH C H JR	47504 STARK W H	42770 STUPKA A	41561 TAYLOR H P	47034
SMITH C H JR	42374 STAUBER H			
SMITH C H JR	42375 STAUNING A			



ITEM		ITEM		ITEM		ITEM	
TAYLOR J C	43191	TINDALL C	46877	TURNER A	46665	UPOROV A N	42692
TAYLOR J I	45088	TINDALL C	48810	TURNER C N	46840	UPSHALL W H	42618
TAYLOR J W	41827	TINLEY J M	47312	TURNER G H	41564	URAY H	45359
TAYLOR L	45312	TIRELLI M	43460	TURNER S H	47987	URQUHART B	43205
TAYLOR L	45386	TISCHHUASER L A	46024	TURNER J H	46445	URQUIDY M R	42432
TAYLOR L W	45669	TISCORNIA J H	45089	TURNER J H JR	42085	URUGUAY COM HONORA RIO DE	
TAYLOR M N	44130	TISDALE E W	43198	TURNER J H JR	42288	CONTRALOR DE EXPORT E IM	
TAYLOR P R	47659	TISLIUS A	41884	TURNER T	49173	PORT 49246	
TAYLOR P R H	47660	TISCHENKO A V	49371	TURNER T	44424	USANDI VASAS J	45444
TAYLOR P R H	46293	TISSOT M	42453	TURNHILL L	45670	USHIROZAWA K	42693
TAYLOR R H	49172	TITSCHACK E	45337	TURNHILL L	45671	USUELLI F	44620
TAYLOR T P	44014	TKATCHENKO B	46444	TURKOWSKI I	43531	USUELLI F	44843
TAYLOR S I R W L	44286	TOBEY E R	44450	TURKRELL F M	41745	USUFIL I F	45779
TCHAN Y T	43626	TORIO J M	48280	TURRENTINE J W	44069	UTIDA S	45998
TEA BUR	47154	TODARO F	47588	TUSTIN F R JR	44685	UVAROV B	46473
TEAM C B	45357	TODARO F	42165	TUYERAS P	46606	UVAROV B P	46474
TEARE D W	46605	TOOD A R	42382	TUZI C	46110	VACCHERI G	46767
TEEDIN O	43367	TOOD C T	45901	TVERDOVSKII V	42255	VACHEROT M	43206
TEETER H M	48146	TOODISCO E	43949	TYERS K G	48797	VACIN E	43207
TEHON L R	41532	TOFANI M	45090	TYLDEEN E	46111	VAGLIO R	47605
TEICHMAN W W	42689	TOIGER E	49413	TYLER C	45495	VAIL G E	48181
TEIXEIRA I	46902	TOLEDO A A DE	45834	TYLER W J	44929	VAITSMAN J	44800
TEJADA J DE D	42452	TOLOMON K V	46295	TYNDAL W F	43202	VAITSMAN J	45093
TEJADA ARGUELLO J A	42164	TOMLOV V	48681	TYSENKO T D	49368	VAITSMAN J	45445
TELFORD H S	45933	TOMALIN T E	43368	TYSON J	43203	VAITSMAN J	48236
TELLE S F	49150	TOMBESI L	42087	TYSSER H F	49243	VAJDA A DE	44021
TELLES J DE Q	46237	TOMETORP A E	43369	UBALDI L	44930	VALDEYRON G	42256
TEMPLEMAN W G	43456	TOMHAVE A E	45494	UBALDI L	44977	VALDEYRON G	47910
TEMPLETON G S	45704	TOMIN H	42559	UCHIDA H	46510	VALDIVIA A A	48770
TEMPLEIN E H	43669	TOMIN H	42617	UDALL R H	46517	VALEMBERG M	45783
TEN EYCK M D	48363	TOMKINS R G	47675	UFER M	46157	VALEMBERG M	42495
TEPLITZ I	47599	TOMSON C	44926	UGANDA COTTON INDUS COMM	43371	VALEMBERG M	42496
TEK HOKST W P	47600	TONU P	47661	UHLAND R E	44016	VALENCIA E	43832
TEKMAN G L	43853	TONGU M	46586	UHLINS J	48542	VALENCIA M M	44687
TEKRAZAS I	44925	TONINI G	44927	UKIL A C	49048	VALENTINE J	42433
TEKRAZAS MONTANO I	48049	TOKINSON E	47984	ULLRICH K	48050	VALENTINE D	47313
TEKRILL C E	44583	TORBERT E N	43950	ULLYETT G C	46389	VALENTINE G E	47705
TEKRILL C L	48141	TORGESON O W	44423	ULLRICH K	42090	VALENTINI M	47911
TEKRILL S W	45828	TORNNAU O	43888	ULVESLI O	44978	VALERANI L	44844
TEKRILL S W	45829	TORRENDI C	43370	UMKATH K	42091	VALERANI L	45092
TEKROINE T	44682	TORRENS PASTOR A	47985	UNDERKOFER L A	47733	VALERI H	44001
TEKRY C W	46680	TORRENS PASTOR A	47986	UNDERWOOD E J	44686	VALLEANCE J R	45446
TESSIER H	46919	TORRES A	44577	UNDERWOOD J	43463	VALLEAU W D	42466
TESTONI K	45740	TORRES B A	46365	UNERT F	46944	VALSECCHI O	47731
TETEREV F K	42690	TORSSSELL H	42383	UNION CATHOLIC CHURCH DEF CHIT	49174	VALVERDE E	48150
TETLEY G	48364	TORTI M	44094	UNION DES SYNDICATS AGR	42560	VAN BLARICOM L C	47036
TEUFFENBACH W	42691	TORZO A	44609	DE PROD HORT DE LA		VANCE R B	48691
TEXERA D A	41533	TOSCANI C	48472	REGION PARISIENNE		VANDECAYEVE S C	43855
THACHER MRS A B	43192	TOSIMA N	45998	U S S R NARODNYI KOMIS		VANDEL A	46168
THAINE R	42379	TOUBEAU M	47155	ZEWL 44610		VANDEL A	46169
THALASSINOS D	44200	TOULZ C	46141	UNITED NATIONS RELIEF AND		VAN DEN AKKER J A	44497
THARP W H	42085	TORNEUR M E	46480	REHABIL ADMIN	48684	VAN DEN BERG X	46648
THEBAUD H	43193	TOWELL W E	44241	UNITED NATIONS RELIEF AND		VANDENDAEL A	47706
THEIS E R	47993	TOWERS C M	42088	REHABIL ADMIN	48685	VANDENOEAL P	48387
THEODORIDES J	46238	TOWERS C M	45328	UNITED NATIONS RELIEF AND		VANDERFORD D W	49052
THERIOT H	43854	TOWERS W K	44521	REHABIL ADMIN	48686	VANDERHASSELT P	43691
THERMAN SUOMALAINEN E		TOWNEND P P	47601	UNITED PACKINGHOUSE WOR		VAN DER MERWE J A	45579
THERON C J	42772	TOWNSEND M E	44131	KERS OF AMER		VANDERMUDE J B	49053
THERON J J	43948	TOWNSEND P S	46109	CIO FARMER LABOR REL		VAN DER PLANK J E	41860
THERON J J	49446	TOXOPEUS H J	47450	DEPT 48543		VANDERVOET V	45499
THESSALONICA AGR AND		TRABALZINI N	42774	UNITED PROV ANIMAL HUSB		VANDERVOET H	42784
DUS INST SALONIKA GREECE		TRACEY M B	46943	DEPT 44842		VAN GILS G E	48257
THEVENOT K	44841	TRACY P H	47270	UNITED PROV DEPT OF AGR		VANGNITS P R	44357
THIAGO A S	48883	TRACY P H	47342	47810 48147 49373		VANHENDE J	45676
THIBAU C E	42253	TRAUER H L	45225	U S BUR OF LAND MANGT		VAN HIMBECK C U	48771
THIEM H	46364	TRAIN K	44168	48769		VAN HOUWELING C U	41536
THIERY J P	45069	TRAMMUST P	43199	U S BUR OF RECLAM	43951	VAN KONYENBURG J	43208
THIULIN G	45005	TRASS C JR	44214	U S COMM ON ORGAN OF THE		VAN MELLE P J	43209
THIMANN K V	41904	TRAVERSO D	45891	EXEC BR OF THE GOVT		VAN MELLE P J	43210
THIMANN K V	49350	THEACY F	47465	U S COMM ON ORGAN OF THE		VANNORTWICK L F	44318
THISTLE M W	47035	THEAUWAY K H	47801	EXEC BR OF THE GOVT		VAN SICKLE H G	45677
THISTLE M W	48213	THEAUWAY K H	47802	49375		VAN TINE R G	49273
THOLSTORF N	48279	THEANOR K	48682	U S COMM ON ORGAN OF THE		VANTOL F P L	49331
THOM D	43194	TREBBI T	45576	EXEC BR OF THE GOVT		VANVIG A	48796
THOMAS B	44683	TREBUCHET G	43261	U S COMM ON ORGAN OF THE		VAN WAES D A	47707
THOMAS E	48884	TREFZ R W	48442	EXEC BR OF THE GOVT		VARGAS L	46297
THOMAS E G	48365	TREMBLAY A	49046	49448		VARGAS L	46298
THOMAS J F I	43195	TREMOUFIRES J	49295	U S COMMODO CREDIT CORP		VARGAS L	46299
THOMAS J G	46317	TRENOY O J	46530	48444		VARGAS L	49332
THOMAS R G	44015	TRESSLER J O	49372	U S CONG		VARIN G	46446
THOMAS S B	47263	TREVENARD P	46296	JOINT COM ON THE ECON		VARZEA A	48332
THOME K E	47264	TREYVE F	43200	REPORT 46990		VASIL EV I S	41537
THOME K E	47447	TRIBBLE R T	43937	U S CONG HOUSE COM		VASIL EV P V	44134
THOME K E	47448	TRIGG R S	47704	AGR	44799	VASIL KOVA A K	41838
THOMPSON A T	48680	TRIGGER H	45395	AGR	46866	VASQUEZ L G DE	48699
THOMPSON F W A JR	44173	TRILLO E	48885	EDUC AND LABOR	48544	VASSEUR R	46354
THOMPSON J H	48330	TRIMBERGER G W	44928	FOREIGN AFF	48402	VASUDEVA R S	41747
THOMPSON J H	41534	TRIMBERGER G W	44973	PUB LANDS	43952	VATTI G	44931
THOMPSON J H	46684	TROTTER I P	49471	WAYS AND MEANS COM	48499	VAUGHAN B	44231
THOMPSON J H	46921	TROTTER P J	48540	U S CONG SENATE COM		Vaux H J	44102
THOMPSON J H	48232	TROUBETZKOI P	43461	EXPEND IN THE EXEC DEPT		Vaux H J	44174
THOMPSON K H	41641	TROUT G M	47265	49376		Vaux H J	44460
THOMPSON K H	41743	TROUVELOT B	41744	LABOR AND PUB WELFARE		VAVILOV P	42092
THOMPSON W L	45956	TROUVELOT B	45967	48545		VAVILOV P	42093
THOMPSON W L	46344	TROW SMITH R	46939	U S DEPT OF COM		VECHT J VAN DER	41863
THOMPSON W R	42380	TROWELL H C	49296	BUR OF THE CENSUS	47606	VEEN A G VAN	49299
THOMPSON W R	42381	TRUAX H V	43201	U S DEPT OF STATE	48687	VEEN B	44135
THOMSEN L C	47209	TRUFANI K A	46587	U S DEPT OF STATE	49244	VEEN B	44288
THOMSEN L C	47449	TRUHANT R	46036	OFF OF RES AND INTEL		VEEN B	44561
THOMSON F A	49294	TRUM B F	44840	46903		VEENBOS J S	43692
THOMSON T A	46766	TRUPPNER W C	49359	OFF OF RES AND INTEL		VEGH J	47211
THOMSON W A	41623	TSAB S W	49414	47607		VELATTA M	43957
THORFINNSEN T S	48768	TSCHERMAK L	44287	U S ECON COOP ADMIN	48688	VELDHUIZEN H VAN	47912
THORNE G B	47982	TSCHERMAK SEYSENEG G		U S FARM CREDIT ADMIN	48445	VELDHUIZEN H VAN	47913
THORNE G B	47983	42089		48445		VELDHUIZEN H VAN	47914
THORP F JR	45766	TSCHUMI E	48911	U S GEOL SURVEY	43953	VELOSO H P	41885
THORP F JR	45857	TSIKOTU I A	48541	U S GEOL SURVEY	43954	VEN D J VAN DER	47156
THORP J	43690	TSUCHIYA S	43302	U S INST OF INTER AVER	46904	VEN L F J M VAN DER	42467
THORP J	43529	TSUCHIYA S	43306	46904		VEN R V D	42468
THORP S	43457	TSUI R	46909	U S INTERDEPT COM ON PEST	46034	VENEZUELA DIR DE AGR	46905
THRAP N L	46294	THIRANCHI M A	46429	CONTROL	46035	VENEZUELA DIR DE GANAD	
THRELKELD W L	45782	TUBEVILLE G	49047	U S INTERDEPT COM ON PEST		VENEZUELA DIR DE GANAD	
THRUCKMORTON R B	48498	TUGWELL R G	48683	CONTROL	46035	VENEZUELA MIN DE AGR	
THUNG T H	41859	TULLNER W W	45439	U S OFF OF DOM COM		VENKATRAM S	47610
TIEMANN H D	44422	TUNBLA D	46025	AREA DEVLPMT DIV	48403	VENNESLAND B	42110
TIEMANN H D	43196	TUNING W	49242	U S OFF OF INTERNATL		VENTURA CO CALIF AGR	
TIEMANN H D	43197	TUPITSYN V	47451	TRADE		COMNR 47077	
TIERNY A	47723	TURBOTI E G	42284	AREAS DIV BRIT COMMON		VENTUROLI G	48281
TIERNY V	45317	TURC L	44252	WEALTH BR	49245	VENTUROLI G	48282
TIKHONOV V	45146	TURCOT C	48366	U S PAT OFF	42783	VERCILLO A	48333
TILSON H G	42545	TURK K L	44973	U S TARIFF COMM	48404		
TILMONS F L	43458	TURK K L	44976	U S TARIFF COMM	48405		
TILMONS J F	43998	TURK K L	45148	U S TARIFF COMM	48406		
TIMOFEEVA TIULINA M T		TURKEY OFF CENT DE STATIS	45148	U S TARIFF COMM	48689		
42086		47075		U S TARIFF COMM	48690		
TINCKER M A H	43459	TURLEY C D	44451	U S TREAS DEPT			
TINDALL C	42254	TURMEL J M	41624	SAVING BONDS DIV	48415		
TINDALL C	42773	TURNAS P A	43462	UNIVERSITY COL OF WALES	49178		
TINDALL C	46625	TURNBULL J S	47210	DEPT OF AGR ECON	46990		



ITEM			ITEM			ITEM			ITEM		
VERUCOURT B	463666	WALKER B S F	440222	WERLE E		421422	WILLIAMSON G		448445		
VERGANI A H	461700	WALKER C H F	432122	WERNBERG M		465922	WILLIAMSON J		441766		
VERGE J	448004	WALKER C H F	469006	WERNER G M		449688	WILLIS A H		482559		
VERGE J	450933	WALKER J W A	446833	WERNER O		421033	WILLIS J H		415666		
VERGE J	453337	WALKER J W A	417722	WERNER F		444088	WILLKIE H F		479022		
VERHAAR G	482558	WALL M E	476122	WERTH A J		425611	WILLKIE H F		479033		
VERMEULEN C	483888	WALL N J	454944	WERTMAN K		436055	WILLS A J		440977		
VERMEULEN P	416255	WALL N J	484166	WESSEL D J		418558	WILLS H A		444055		
VERMEULEN V	478899	WALLACE B A V	479166	WEST P		478033	WILLSON E A		482600		
VERNEL G	436444	WALLACE B G V	432133	WEST R		444611	WILSON A		432225		
VERNER A R	436227	WALLACE M T	422660	WEST VA U		487766	WILSON C E JH		432226		
VEROLINI F	463330	WALLACE T	453266	WESTCOTT C		494775	WILSON C P		479558		
VERONA O	435333	WALLACE T	420997	WESTERN PINE ASSOC		417511	WILSON D		446111		
VERHALL A F	443394	WALLACE T	473433	WESTERN PINE ASSOC		444099	WILSON F C B		432227		
VERHFR M L	465111	WALLACE T	489066	WESTERN PINE ASSOC		444100	WILSON F C B		432228		
VERRIER M L	465112	WALLER J G F	426944	WESTGAARD P		444111	WILSON G B		432229		
VERSHININ P V	435666	WALLER J G F	489066	WESTON W B		487777	WILSON M E		455883		
VERSTEEG H	451800	WALLER J G F	436044	WETMORE R H		477300	WILSON M E		455883		
VERVACK W	449499	WALLIN J R	478011	WETMORE R H		419044	WILSON M L		486999		
VERVACK W	472667	WALSH M T	457055	WEXLER H		444999	WILSON M L		491775		
VERZBOLOVSKIS F	471557	WALSH M T	440223	WEXLER H		423911	WILSON M L		491885		
VESEY FITZGERALD B	463900	WALT W J V D	437099	WHEELER W L		465133	WILSON R D		421011		
VESSEL A J	436755	WALTER G H	468466	WHEELER W L		483688	WILSON R D		461644		
VESSEREAU A	494544	WALTERS A S	442900	WHEELER R A		419229	WILSTER G H		473444		
VESTAL C M	458442	WALTERS C S	443200	WHEELER R A		440244	WILSTER G H		474588		
VESTBERG J	492477	WALTERS C S	443955	WHEELER R S		470366	WILTON W		422622		
VETHE K	423119	WALTERS C S	443955	WHERRY E T		455400	WILTON W		422623		
VETTESAND L	461112	WALTERS C S	439559	WHERRY E T		416300	WILTON W		479199		
VEULEMANS L	426119	WALTERS C S	419600	WHERRY E T		432129	WIMMER L		432229		
VEZIN C	417499	WALTERS C S	450966	WHILLIS J		432220	WIMMER L		432229		
VEZZANI V	474668	WALTON A	476133	WHITCOMB L H		432221	WIMSATT W A		448808		
VIAL E E	473665	WALZ F	444255	WHITCOMB O K		465333	WINCKLER K		438633		
VIANA M	488886	WAMPLER M H	432144	WHITCOMB R		453622	WINDEL J		476188		
VIANNA A T	458443	WAMPLER M H	420988	WHITCOMB W D		449355	WINDISCH K		485488		
VICK A F W JR	432111	WANG C	481544	WHITE C H		417522	WINE INST		471588		
VICKERY L E	454477	WANG C	487755	WHITE C M		455337	WINFIELD G F		487000		
VIDAL H	420944	WANG T C	420999	WHITE G U		463022	WING A S		425622		
VIDAL FERNANDEZ B	490544	WANNER H H	421000	WHITE H C		460337	WINGARD S B		455888		
VIDAL MOHA J M	438556	WANNER H H	457744	WHITE J C		436229	WINKELMANN A		493811		
VIDME T	442889	WARD B G	486955	WHITE J W		474077	WINKLEPLECK R		426955		
VIDVEI O	465911	WARD B G	454977	WHITE R B		478338	WINKLER A J		427766		
VIEGAS G P	422557	WARD J D U	445633	WHITE S S		444533	WINKLER A J		427777		
VIEIRA L M	482055	WARD J D U	415339	WHITE T		415665	WINNER E B		488133		
VIEITEZ E		WARD J D U	435334	WHITEHEAD E I		445033	WINNIGSTEDT		449337		
VIENNA HOCHSCHULE FUR		WARD J D U	433733	WHITEHEAD E I		421044	WINNIGSTEDT		451522		
BODENKULTUR 49474		WARD J D U	476662	WHITFSIDE E P		433777	WINOKUR M		421066		
VIERI F	488887	WARD J D U	421011	WHITING F		436669	WINTER G		453888		
VIFRI F	488888	WARD J D U	462411	WHITLOCK R		472411	WINTER J D		425644		
VIFRI F	488888	WARD J D U	470336	WHITLOCK R		451499	WINTER WHEAT INST		422644		
VIFRI F	488888	WARD J D U	458477	WHITMAN D W S		449336	WINTERS H F		436933		
VIFRI F	488888	WARD J D U	481555	WHITMORE J S		472700	WINTERS H F		460055		
VIFRI F	488888	WARD J D U	442911	WHITNEY D J J		494447	WIRTH		470779		
VIFRI F	488888	WARD J D U	454488	WHITNEY D J J		423922	WIRTH		470800		
VIFRI F	488888	WARD J D U	482338	WHITTAKER T P		476633	WIRTH D		448809		
VIFRI F	488888	WARD J D U	426211	WHITTEN H		451500	WIS COMNR OF THE PUB				
VIFRI F	488888	WARD J D U	490500	WHITTEN L K		421666	LANDS 48779				
VIFRI F	488888	WARD J D U	470338	WHITTENBERGER R T		463033	WIS COUNCIL OF AGR COOP				
VIFRI F	488888	WARD J D U		WHITTET J N		421055	49186				
VIFRI F	488888	WARD J D U	421022	WHYTE R O		423933	WISE G H		450633		
VIFRI F	488888	WARD J D U	423889	WHYTE R O		423944	WISE G H		472511		
VIFRI F	488888	WARD J D U	438660	WICKERS H E		477922	WISS O		448100		
VIFRI F	488888	WARD J D U	463911	WICKARD C R		467779	WITHERINGTON R S		483370		
VIFRI F	488888	WARD J D U	477999	WICKARD C R		468488	WITNEY V F		485499		
VIFRI F	488888	WARD J D U	455800	WICKARD C R		468489	WITTCOFF H		481566		
VIFRI F	488888	WARD J D U	473144	WICKENDEN L		468558	WILLER H E		452227		
VIFRI F	488888	WARD J D U	488889	WICKENDEN L		436455	WILLICH W		421677		
VIFRI F	488888	WARD J D U	449332	WIDIEZ F		440966	WILZGALL		442166		
VIFRI F	488888	WARD J D U	490566	WIEBE K S		463922	WUJCIECHOWSKI J		421077		
VIFRI F	488888	WARD J D U	494166	WIECKERS M S G		467227	WUJIA W		478044		
VIFRI F	488888	WARD J D U	420511	WIEHLE P		493334	WOLDIJK P K		433788		
VIFRI F	488888	WARD J D U	422611	WIEHLE H		474566	WOLF D E		451533		
VIFRI F	488888	WARD J D U	474533	WIESENANGER H		417533	WOLF F		434665		
VIFRI F	488888	WARD J D U	448007	WIESSNER F		461722	WOLF F A		424699		
VIFRI F	488888	WARD J D U	463011	WIETING C M		451511	WOLF FANGER L		457844		
VIFRI F	488888	WARD J D U	472699	WIGG L T		450977	WOLF FANGER L		457844		
VIFRI F	488888	WARD J D U	432155	WILK R V D		491811	WOLFE D M		455855		
VIFRI F	488888	WARD J D U	464477	WILK R V D		415411	WOLFE H H		421688		
VIFRI F	488888	WARD J D U	449800	WILBUR D A		415411	WOLFE H H		422655		
VIFRI F	488888	WARD J D U	455811	WILCOX A N		487778	WOLGE T K		491877		
VIFRI F	488888	WARD J D U	467699	WILCOX H H		486977	WOLFF A		450999		
VIFRI F	488888	WARD J D U	418300	WILCOX J C		459553	WOLFRUM O C		474599		
VIFRI F	488888	WARD J D U	432166	WILCOX R S		425644	WOLTZ W G		438644		
VIFRI F	488888	WARD J D U	418111	WILCOX W		452666	WOMAN S HOME COMPANION				
VIFRI F	488888	WARD J D U	449333	WILCOX W W		491833	49423				
VIFRI F	488888	WARD J D U	458088	WILCZYNSKA H		432222	WOOD E I		432330		
VIFRI F	488888	WARD J D U	449334	WILD E		465933	WOOD G B		491888		
VIFRI F	488888	WARD J D U	443997	WILDE F I		465775	WOOD H E		434666		
VIFRI F	488888	WARD J D U	469922	WILDE J K H		452100	WOOD H E		434667		
VIFRI F	488888	WARD J D U	459333	WILDEMAN E D E		488122	WOOD H E		434668		
VIFRI F	488888	WARD J D U	419622	WILDER R M		432233	WOOD H E		434669		
VIFRI F	488888	WARD J D U	472144	WILENEN A F		450988	WOOD I D		439600		
VIFRI F	488888	WARD J D U	492711	WILENEN A F		435366	WOOD J F		437100		
VIFRI F	488888	WARD J D U	474544	WILEY W H		493000	WOOD T R		472566		
VIFRI F	488888	WARD J D U	476155	WILHELM F		490577	WOOD T R		472622		
VIFRI F	488888	WARD J D U	491799	WILHELM F		490588	WOODALL L		488144		
VIFRI F	488888	WARD J D U	476166	WILKENING E A		456788	WOODARD T M JR		455866		
VIFRI F	488888	WARD J D U	446911	WILKEY C H		417544	WOODBURY E M JR		460388		
VIFRI F	488888	WARD J D U	425644	WILKINSON C		438622	WOODFORD E K		434700		
VIFRI F	488888	WARD J D U	435444	WILKINSON C		491966	WOODGATE F G		456988		
VIFRI F	488888	WARD J D U	452522	WILKINSON R E		491844	WOODIE H A		422899		
VIFRI F	488888	WARD J D U	458733	WILL G F		470388	WOODIE H A		460399		
VIFRI F	488888	WARD J D U	461144	WILL G F		427775	WOODMAN H E		446888		
VIFRI F	488888	WARD J D U	422822	WILLAMAN J J		479188	WOODHOFF F R		432311		
VIFRI F	488888	WARD J D U	438611	WILLARD C J		418611	WOODS I A		452229		
VIFRI F	488888	WARD J D U	468477	WILLARD H S		469244	WOODWARD C F		459888		
VIFRI F	488888	WARD J D U	433744	WILLAUDE M F		423955	WOODWARD L H		446889		
VIFRI F	488888	WARD J D U	466442	WILLCOX O W		474577	WOODLEY J C		467700		
VIFRI F	488888	WARD J D U	423990	WILLET W		418322	WOODLATT L H		463933		
VIFRI F	488888	WARD J D U	464448	WILLEY N H		483366	WOODLEY G A		425633		
VIFRI F	488888	WARD J D U	435355	WILLIAMS A A T		484477	WOODEN H A		489077		
VIFRI F	488888	WARD J D U	432177	WILLIAMS A A T		449811	WOODSTEFER P F		482399		
VIFRI F	488888	WARD J D U	469993	WILLIAMS C D T A N		418444	WOOD T		470344		
VIFRI F	488888	WARD J D U	462446	WILLIAMS G T H		418333	WORKING E J		469944		
VIFRI F	488888	WARD J D U	444988	WILLIAMS J R J		470778	WORKING E J		479200		
VIFRI F	488888	WARD J D U	415400	WILLIAMS L J		440255	WORSTELL U M		449977		
VIFRI F	488888	WARD J D U	479177	WILLIAMS M B		442155	WORTH A		461422		
VIFRI F	488888	WARD J D U	491800	WILLIAMS M S		454499	WORTH C H		432322		
VIFRI F	488888	WARD J D U	432188	WILLIAMS R A C		493011	WORTHINGTON W H		467288		
VIFRI F	488888	WARD J D U	464449	WILLIAMS R C		449611	WORTZELLA W W				



ITEM	NAME	ITEM	NAME	ITEM	NAME
43471	YOCOM J E	46164	ZANDER R	41542	ZICH G E
49302	YOSHIDA I	46345	ZANDOTTI G M	46594	ZIEBACH B
48371	YOSHIDA M	46450	ZANETS A	43866	ZIEGER E
48780	YOUNG F W	44812	ZANONI G	49060	ZIEGER W
48924	YOUNG F U	41756	ZANOTTI M	48240	ZIELINSKI Q B
44811	YOUNG G U	44840	ZANZIBAR	49249	ZIFMBA J V
45100	YOUNG G U	45230	ZARUBA ILO T IA	41964	ZIMMER F
43654	YOUNG J H	45389	ZARUBA ILO T IA	42108	ZIMMERMAN C
41901	YOUNG T W	43594	ZARUBIN A F	42785	ZIMMERMAN M M
47216	YOUNG V M	44721	ZATILEH F	46173	ZIMMERMANN G
41922	YOUNG W C	45392	ZAVAGLI A	46451	ZIMNY F
43234	YOXALL J	46116	ZAVAGLI V	44813	ZIPOLI A
43235	YU C S	46041	ZAVAGLI H G	45893	ZIRKLE J J JR
45228	YUAN H M	45925	ZAVAGLI H G	49189	ZIVNUSKA J A
45229	YUILL W J	44938	ZELLER J	44983	ZOBRIST L
43379	YUSEF H M	47460	ZELLER J H	45822	ZOGG H
48890		42141	ZELLER J H	45844	ZOLTAHEV V
43961	ZABEL A	41757	ZENTMYER G A	41834	ZOPPI C B
42396	ZACH C	46242	ZENTHALVERBAND DEUT	44939	ZORN
	ZACHFR F	46926	ZERZUCHTER E V		ZORN W
	ZAGLITS O	49059	48815		ZUBRILIN A A
43236	ZAGO F	47521	ZERBAN F W	48325	ZUCCHINI M
48389	ZAHN H	47619	ZERBAN F W	48337	ZULCH R
43380	ZAHN H	45524	ZERBS M	49190	ZULIANI O DE
45919	ZAHN H	46117	ZETTERFRG O	48460	ZURTH E
46040	ZAKHAREVICH V I	47664	ZEZOS R	47159	ZURUTUZA ALTOLAGUIRRE E
43551	ZALVIDEA ROMERO E	46118	ZHIVAN V P	42397	44940
	ZANDER E		ZHURAVLEV V V	45101	ZYKOVA E A
					42399

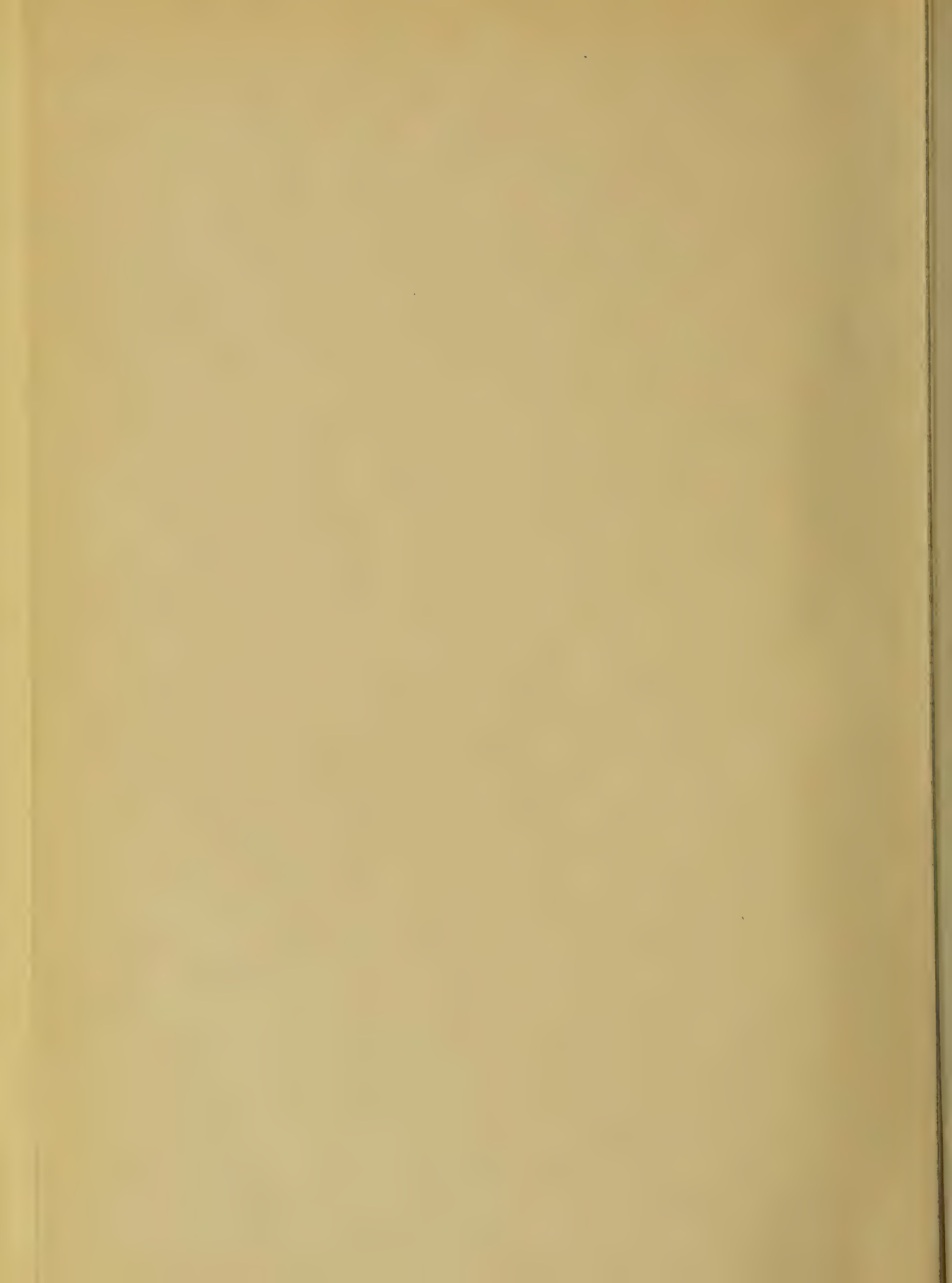


























NATIONAL AGRICULTURAL LIBRARY



1023117047